

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, 1992

1992					1992						
Jan.	1	UPP	iSg1	08 08 03.0	Jan.	1	(cont).				
		KIR	iPn	08 04 32.2 C			UME	iSg1	10 17 29.2		
			iPg1	08 04 34.2			Coast of northern Norway,				
			iSn	08 04 57.8			67.7°N, 15.2°E.				
			iSg1	08 04 59.7			Origin time = 10 15 09.				
		UME	iPn	08 05 04.1 C			M _L (UPP) = 2.7 1.				
			iSn	08 05 55.1			By combination with Finnish and				
			iSg1	08 06 13.0			Norwegian station readings.				
		DEL	iLg1	08 09 50.1	"	1	KIR	iPn	22 33 02.1		
		MYV	iPn	08 05 08.0			Jan Mayen Island region (h = 10 km).				
			iSg1	08 06 23.0							
		Coast of northern Norway, 67.7°N, 15.4°E.					"	2	UPP	iP	16 51 42.9
		Origin time = 08 03 58.									micr sec
		M _L (UPP) = 3.9 (0.33) 3.							P	Z'	0.1 1.0
		Felt.							KIR	iP	16 50 59.0
		By combination with Finnish and							UME	iP	16 51 21.7
		Norwegian station readings.							Vancouver Island region (h = 10 km).		
"	1	KIR	iPn	08 39 35.9	"	2	UPP	iP	19 54 11.3 D		
			iSg1	08 40 03.8				ipP	19 54 48.0		
		UME	iSg1	08 41 17.6							micr sec
		Coast of northern Norway, 67.8°N, 15.2°E.							P	Z'	0.7 0.9
		Origin time = 08 39 00.							KIR	iP	19 54 14.2 D
		M _L (UPP) = 2.8 (0.30) 2.							ipP	19 54 49.9	
		Felt.									micr sec
		By combination with Finnish and							P	Z'	1.0 1.2
		Norwegian station readings.							UME	iP	19 54 15.6 D
								ipP	19 54 51.4		
								Colombia.			
"	1	KIR	iPn	10 15 45.8				h = 130 km (UPP,KIR,UME).			
			iSg1	10 16 13.9				m = 6.5 (UPP,KIR).			
		(cont).									

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

1992				1992					
Jan.	3	KIR	iP	06 55 25.6	Jan.	4	(cont).		
		UME	iP	06 56 14.6			UPP	iSg1	06 04 55.6
			i	06 56 19.7			KIR	iPn	06 01 27.8
				Greenland Sea (h = 25 km).				iSg1	06 01 55.9
"	4	UPP	iP	01 05 06.8			UME	iPn	06 01 59.4
			i	01 05 11.2				iSn	06 02 50.0
				micr sec				iSg1	06 03 08.3
			P	Z' 0.2 1.1			DEL	iLg1	06 06 51.4
		KIR	eP	01 04 18			MYV	iPn	06 02 03.4
		UME	iP	01 04 47.6				iSg1	06 03 20.0
				Northwest Territories, Canada			Coast of northern Norway,		
				(h = 20 km).			67.8°N, 15.2°E.		
							Origin time = 06 00 52.		
							$M_L(\text{UPP}) = 4.0 (0.37) 4.$		
							Felt.		
"	4	UPP	iP	03 43 29.3			By combination with Finnish and		
		KIR	eP	03 43 43			Norwegian station readings.		
		UME	iP	03 43 29.7					
				Pakistan (h = 30 km).					
"	4	KIR	iPn	03 44 18.0	"	4	KIR	iPn	09 07 04.9
			iSg1	03 44 46.3				iSg1	09 07 33.3
		UME	iSg1	03 46 00.6			UME	iPn	09 07 39.6
				Coast of northern Norway,				iSn	09 08 27.6
				67.7°N, 14.9°E.				iSg1	09 08 46.1
				Origin time = 03 43 43.			MYV	eSg1	09 08 58.0
				$M_L(\text{UPP}) = 2.9 1.$			Coast of northern Norway		
				By combination with Norwegian			67.8°N, 15.2°E.		
				station readings.			Origin time = 09 06 29.		
"	4	UPP	iSg1	04 19 06.7			$M_L(\text{UPP}) = 3.3 (0.20) 2.$		
		KIR	iPn	04 15 38.4			By combination with Finnish and		
			iPg1	04 15 40.6			Norwegian station readings.		
			iSn	04 16 05.7	"	5	KIR	iPn	01 21 23.3
			iSg1	04 16 06.7				iSg1	01 21 51.6
		UME	iPn	04 16 10.3			UME	iSg1	01 23 05.6
			i	04 16 12.9			MYV	iSg1	01 23 16.0
			iSn	04 17 01.1			Coast of northern Norway		
			iSg1	04 17 19.4			67.7°N, 15.2°E.		
		MYV	ePg1	04 16 26			Origin time = 01 20 47.		
			iSg1	04 17 30.0			$M_L(\text{UPP}) = 2.8 1.$		
				Coast of northern Norway,			By combination with Finnish and		
				67.8°N, 15.1°E.			Norwegian station readings.		
				Origin time = 04 15 03.	"	5	KIR	iSg1	02 32 05.7
				$M_L(\text{UPP}) = 3.5 (0.27) 3.$			Coast of northern Norway		
				Felt.			67.7°N, 14.8°E.		
				By combination with Finnish and			Origin time = 02 31 04.		
				Norwegian station readings.			$M_L(\text{UPP}) = 2.2 1.$		
"	4	UPP	iPn	06 02 48.1			Solution from Norwegian station		
			iSn	06 04 17.8			readings.		
				(cont).					

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

1992				1992						
Jan.	5	KIR	iPn	05 12 31.5	Jan.	7	UPP ePKP1	07 22 48		
			iSg1	05 12 59.6			Kermadec Islands region (h = 310 km).			
		UME	iSg1	05 14 13.6		"	7	UPP iP	17 36 50.0	
		Coast of northern Norway, 67.8°N, 15.2°E.						KIR iP	17 36 03.1	
		Origin time = 05 11 56.						Kuril Islands (h = 45 km).		
		$M_L(\text{UPP}) = 2.7$ 1.				"	9	UPP iP	13 50 35.7 D	
		By combination with Finnish and Norwegian station readings.						i	13 50 41.7	
"	5	UPP	iSg1	05 40 10.5				P	Z' 0.2 0.6	
		UME	iSg1	05 44 41.8				KIR iP	13 51 47.0	
		MYV	iSg1	05 43 17.0				UME iP'	13 51 10.9	
		Norwegian Sea, 61.2°N, 4.0°E.						Southern Greece (h = 30 km).		
		Origin time = 05 40 32.				"	10	UPP iP	00 50 26.5	
		$M_L(\text{UPP}) = 3.2$ 1.						P	Z' 0.1 0.8	
		By combination with Finnish and Norwegian station readings.						KIR iP	00 50 09.0	
"	5	KIR	iPn	07 54 12.8				UME iP	00 50 14.4	
			iSg1	07 54 41.0				Mindoro, Philippine Islands (h = 140 km).		
		UME	iSg1	07 55 55.8				"	10	
		Coast of northern Norway, 67.7°N, 14.9°E.						KIR iPg1	07 47 01.4	
		Origin time = 07 53 38.						iSg1	07 47 19.0	
		$M_L(\text{UPP}) = 2.4$ 1.						UME iSg1	07 48 32.0	
		Solution from Norwegian station readings.						MYV eSg1	07 49 35.0	
"	5	KIR	iP	17 21 41.4				Norrbotten, Sweden, 67.2°N, 23.6°E. Origin time = 07 46 36.		
		Tajikistan (h = 15 km).						$M_L(\text{UPP}) = 2.9$ (0.29) 2.		
"	5	KIR	iSg1	20 01 10.2				Felt with maximum intensity $I_0 = IV$ (MM). Radius of perceptibility is 35 km and macroseismic magnitude $M_M = 3.0$. Focal depth deduced from macroseismic data is 15 km.		
		Coast of northern Norway, 67.7°N, 15.0°E.						By combination with Finnish and Norwegian station readings.		
		Origin time = 20 00 07.				"	10	UPP iSg1	22 02 42.7	
		Solution from Norwegian station readings.						UME iSg1	22 03 10.0	
"	6	KIR	iSg1	08 27 25.0				Norwegian Sea, 61.6°N, 3.3°E. Origin time = 21 59 03.		
		Coast of northern Norway, 67.7°N, 15.0°E.						$M_L(\text{UPP}) = 3.4$ 1.		
		Origin time = 08 26 22.						Solution from Norwegian station readings.		
		Solution from Norwegian station readings.				"	6	UME iP	11 28 26.9	
"	6	UME	iP	11 28 26.9			"	6	UME iP	20 52 55.0
		South of Honshu, Japan (h = 20 km).								

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

1992				1992					
Jan.	10	KIR	iPn	22 26 17.1	Jan.	15	UPP iPKP1	03 52 02.6	
			iSg1	22 26 45.4			Kermadec Islands region (h = N).		
		UME	iSg1	22 27 58.6		"	15	UPP iP	05 12 48.5 C
		Coast of northern Norway,						Mindoro, Philippine Islands	
		67.7°N, 15.0°E.						(h = 150 km).	
		Origin time = 22 25 42.				"	15	UPP iP	07 10 06.9
		$M_L(\text{UPP}) = 3.0 (0.07) 2.$							micr sec
		Felt.						P	Z' 0.2 1.5
		By combination with Finnish and						UME iP	07 10 11.8
		Norwegian station readings.						Dominican Republic region	
"	11	KIR	ePn	01 18 05				(h = 10 km).	
			iSg1	01 18 31.8		"	16	UPP i(P)	04 30 34.3
		Coast of northern Norway,							
		67.7°N, 14.9°E.				"	16	UME iP	18 57 25.2
		Origin time = 01 17 29.						Hokkaido, Japan region (h = 70 km).	
		Solution from Norwegian station							
		readings.				"	17	UPP iP	00 25 53.5
"	11	KIR	iSg1	01 46 38.7				UME iP	00 25 24.3
		Coast of northern Norway,						Off east coast of Kamchatka	
		67.7°N, 14.9°E.						(h = 45 km).	
		Origin time = 01 45 37.				"	18	UPP iP	17 51 42.4
		$M_L(\text{UPP}) = 2.5 1.$						i	17 52 00.4
		Solution from Norwegian station						KIR iP	17 51 52.2
		readings.						UME iP	17 51 40.4
"	11	UPP	iP	06 28 15.8 C				i	17 51 57.8
				micr sec				Hindu Kush region (h = 110 km).	
			P	Z' 0.2 1.2			"	18	UPP iP
		UME	iP	06 28 15.9				KIR iP	23 22 23.6
		Bay of Bengal (h = 20 km).						UME iP	23 22 10.4
"	12	UPP	iP	00 21 38.1 C					micr sec
				micr sec				P	Z' 0.1 1.0
			P	Z' 0.2 0.9				UME iP	23 22 13.4 D
		Gansu, China (h = 20 km).						Celebes Sea (h = 540 km).	
"	13	UME	i(PKP)	09 55 51.4		"	19	UPP iPKP1	07 15 47.0
			iPKP	09 55 57.0				South of Fiji Islands (h = 500 km).	
		Fiji Islands region (h = 580 km).				"	19	UPP eP	20 27 04
"	13	UPP	iP	11 52 25.9				UME iP	20 27 41.0
		UME	iP	11 52 12.2				Northern Algeria (h = 10 km).	
		Luzon, Philippine Islands				"	19	UPP iP	23 52 26.1
		(h = 25 km).						KIR iP	23 51 52.8
"	13	UPP	eP	12 11 52				UME iP	23 52 06.9
		UME	iP	12 11 38.1				South of Honshu, Japan (h = 420 km).	
		Halmahera, Indonesia (h = 110 km).							

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

1992				1992						
Jan.	20	UPP	iP	09 06 46.6	Jan.	21	UPP	iP	22 16 31.2	
				micr sec					micr sec	
			Mx	Z 3.7 14				P	Z' 0.1 0.6	
		KIR	iP	09 07 06.1			KIR	iP	22 16 51.9	
				micr sec			UME	iP	22 16 35.8	
			Mx	Z 3.7 12			Pakistan (h = 25 km).			
		UME	iP	09 06 50.9		"	22	UPP	iP	01 18 02.0
				Pakistan (h = 25 km).				i	01 18 31.6	
				M = 5.5 (UPP,KIR).					micr sec	
"	20	UPP	iP	13 48 20.4				P	Z' 0.2 1.4	
			i	13 48 21.6			KIR	iP	01 17 22.9	
			ipP	13 50 15.2					micr sec	
			iPP	13 51 33.1				P	Z' 0.8 2.2	
			iS	13 57 41.6			UME	iP	01 17 39.7	
				micr sec			Eastern Honshu, Japan (h = 120 km).			
			i	Z' 0.6 0.9			m = 6.0 (UPP,KIR).			
			Mx	Z 7.5 16		"	22	UME	iPKP	06 43 26.7
		KIR	iP	13 47 50.7			Vanuatu Islands (h = 200 km).			
			iS	13 56 42.4						
				micr sec		"	22	UME	iPKP1	07 43 19.5
			P	Z' 0.7 1.0			South of Kermadec Islands			
			Mx	Z 7.0 16			(h = 80 km).			
		UME	iP	13 48 02.5		"	22	UPP	iSg1	19 02 30.5
			i	13 48 03.9			KIR	iPn	18 58 59.6 C	
			iS	13 57 07.1				iPg1	18 59 01.6	
				Bonin Islands region.				iSn	18 59 26.6	
				h = 510 km (UPP).				iSg1	18 59 27.5	
				m = 6.0, M = 6.0 (UPP,KIR).			UME	iPn	18 59 31.2	
				M uncorrected for focal depth.				i	18 59 33.8	
"	21	KIR	iPn	03 13 08.6				iSn	19 00 21.9	
			iSg1	03 13 36.8				iSg1	19 00 40.3	
		UME	iSg1	03 15 31.8			UDD	iSg1	19 02 28.3	
		MYV	iSg1	03 15 43.0			DEL	eLg1	19 04 15	
				Coast of northern Norway,			MYV	iPn	18 59 34.2	
				69.3°N, 16.8°E.				iSg1	19 00 51.0	
				Origin time = 03 12 33.			Coast of northern Norway,			
				$M_L(UPP) = 2.8 (0.24) 2.$			67.8°N, 15.1°E.			
				By combination with Finnish and			Origin time = 18 58 23.			
				Norwegian station readings.			$M_L(UPP) = 3.5 (0.35) 4.$			
"	21	UPP	iPKP1	05 05 11.1			Felt.			
				South of Fiji Islands (h = 30 km).			By combination with Finnish and			
"	21	UPP	iP	20 21 43.9			Norwegian station readings.			
		UME	iP	20 22 22.7		"	22	UPP	iP	21 52 12.5
				Greece (h = 10 km).					micr sec	
								P	Z' 0.1 0.9	
								Mx	Z 3.1 14	

(cont).

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

1992				1992					
Jan.	22	(cont.)		Jan.	25	UPP	eSg1	12 20 53	
		KIR	iP			KIR	iPn	12 17 22.2 C	
							iPg1	12 17 24.2	
							iSn	12 17 49.6	
							iSg1	12 17 50.6	
		UME	iP			UME	iPn	12 17 53.9	
		Yellow Sea (h = N).					i	12 17 56.9	
		M = 5.5 (UPP,KIR).					iSn	12 18 45.2	
"	23	UPP	iP				iSg1	12 19 03.1	
			iS			UDD	iSg1	12 20 52.3	
						MYV	iPn	12 18 02.0	
							iSg1	12 19 15.0	
						Coast of northern Norway, 67.7°N, 15.1°E.			
						Origin time = 12 16 47.			
						$M_L(UPP) = 3.3 (0.36) 4.$			
						Felt.			
						By combination with Finnish and Norwegian station readings.			
"	23	UPP	iP		"	25	KIR	iPn	12 27 04.8
							iSg1	12 27 33.1	
							UME	iSg1	12 28 47.6
						Coast of northern Norway, 67.7°N, 15.4°E.			
						Origin time = 12 26 30.			
						$M_L(UPP)=2.9 (0.33) 2.$			
						By combination with Finnish and Norwegian station readings.			
"	24	UPP	iP		"	25	KIR	iPn	19 13 26.8
			iPP				iSg1	19 13 54.7	
							UME	iSg1	19 15 09.1
							MYV	iSg1	19 15 19.0
						Coast of northern Norway, 67.6°N, 15.4°E.			
						Origin time = 19 12 53.			
						$M_L(UPP)=2.9 1.$			
						By combination with Finnish and Norwegian station readings.			
"	25	UPP	iP		"	25	UME	iPKP1	23 15 45.4
						Kermadec Islands region (h = N).			
"	25	KIR	ePg1		"	25			
			i						
			iSg1						
		UME	iSg1						
"	25	KIR	iSg1		"	26	KIR	iPn	01 57 34.7
		MYV	iSg1						
		Coast of northern Norway, 67.6°N, 15.4°E.				Norwegian Sea, 72.6°N, 5.1°E.			
		Origin time = 11 57 35.				Origin time = 01 55 50.			
		$M_L(UPP) = 2.9 1.$				Solution from Norwegian station readings.			
		By combination with Finnish and Norwegian station readings.							

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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

FEBRUARY 1 - 29, 1992

1992					1992				
Feb.	1	UPP	iP	03 49 05.7	Feb.	2	UPP	iPKP1	00 51 15.0
				Kuril Islands (h = 100 km).					micr sec
"	1	UPP	iP	09 33 42.0			Mx	Z	4.3 21
		UME	iP	09 33 40.5		KIR	iPKP		00 51 11.1
				Hindu Kush region, Afghanistan					micr sec
				(h = 200 km).			Mx	Z	3.3 20
"	1	UPP	iP	19 15 29.0		UME	iPKP		00 51 10.2
			ipP	19 15 58.0					South of Australia (h = 10 km).
				micr sec					M = 6.1 (UPP,KIR).
			P	Z' 0.3 1.3	"	2	UPP	iP	17 54 33.4
		KIR	iP	19 14 52.7					micr sec
				micr sec			Mx	Z	3.3 24
			P	Z' 0.1 1.0		KIR	iP		17 53 47.4
		UME	iP	19 15 08.8 D					micr sec
				Near S. coast of Honshu, Japan			Mx	Z	4.3 19
				(h = 100 km).		UME	iP		17 54 08.3
				m = 5.8 (UPP,KIR).					Kuril Islands (h = 35 km).
"	1	UPP	iP	23 59 19.9					M = 5.5 (UPP,KIR).
		KIR	iP	23 58 47.2	"	2	UPP	iP	19 53 30.7
		UME	iP	23 59 00.9			UME	iP	19 53 15.3
				South of Honshu, Japan					Moriana Islands (h = 120 km).
				(h = 440 km).	"	4	KIR	iPn	16 16 07.5
"	2	UPP	iPKP1	00 41 49.0					Norwegian Sea, 72.2°N, 0.6°E.
		KIR	iPKP1	00 41 47.3					Origin time = 16 14 02
		UME	iPKP1	00 41 46.6					Solution from Bergen regional
				South of Australia (h = 10 km).					bulletin.

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

1992				1992					
Feb.	5	UPP	iP	05 44 10.2	Feb.	6	UPP	iP	20 39 48.7 C
				micr sec					micr sec
			P	Z' 0.1 1.0				P	Z' 0.1 1.0
		KIR	iP	05 43 25.2			UME	iP	20 39 20.6 C
		UME	iP	05 43 46.3					Off east coast of Kamchatka
				Kuril Islands (h = 50 km).					(h = 45 km).
"	5	UPP	iP	13 24 37.2	"	6	UPP	iP	21 36 14.2
		KIR	iP	13 23 44.1					Bonin Islands region (h = 440 km).
		UME	iP	13 24 10.8					
				Fox Islands, Aleutian Islands (h = N).					
"	5	UPP	iP	23 18 49.1					
				micr sec					
			Mx	Z 11 15					
				Afghanistan (h = 20 km).					
"	6	UPP	iP	01 25 47.6 C					
			i	01 36 20					
				micr sec					
			P	Z' 0.1 0.9					
			Mx	Z 15 19					
		KIR	iP	01 25 47.1					
				micr sec					
			P	Z' 0.3 1.4					
			Mx	Z 13 17					
		UME	iP	01 25 44.8 C					
				Southern Sumatera (h = 35 km).					
				m = 6.4, M = 6.4 (UPP,KIR).					
"	6	UPP	iP	03 45 15.7 C					
				micr sec					
			P	Z' 0.2 1.0					
		KIR	iP	03 45 04.1					
		UME	iP	03 45 01.6					
				Eastern Xijang - India border reg.					
				(h = 15 km).					
"	6	UPP	iP	04 07 46.6					
				Southern Sumatera (h = 35 km).					
"	6	UPP	iP	04 48 10.6					
				Southern Sumatera (h = 35 km).					
"	6	KIR	iSg1	12 45 33.4					
				Northern Norway, 67.8°N, 15.3°E.					
				Origin time = 12 44 28.					
				M _L (UPP) = 2.5 1.					
				Solution from Finnish station					
				readings.					
"	6	UPP	iP	00 17 29.5					
				micr sec					
			P	Z' 0.2 0.8					
		KIR	iP	00 16 45.1					
				micr sec					
			P	Z' 0.2 1.0					
		UME	iP	00 17 04.6					
				Kuril Islands (h = 55 km).					
				m = 6.1 (UPP,KIR).					
"	7	UPP	iP	06 45 51.5					
		KIR	iP	06 44 57.9					
		UME	iP	06 45 23.3					
				Off east coast of Kamchatka					
				(h = 50 km).					
"	7	UPP	iP	09 58 39.2					
		KIR	iP	09 57 43.9					
				Kamchatka (h = 150 km).					
"	7	UPP	iPKP	16 37 42.7					
				South of Fiji Islands (h = 60 km).					
"	8	UPP	iP	02 26 52.5					
				Hokkaido, Japan region (h = 40 km).					
"	9	KIR	iP	04 11 54.3					
		UME	iP	04 12 17.2					
"	9	UPP	iP	04 52 08.6					
				Sichuan, China (h = 15 km).					
"	9	UPP	iP	08 00 15.3					
		UME	iP	07 59 49.9					
				Andreanof Islands, Aleutian Is.					
				(h = 35 km).					
"	9	UPP	iP	12 54 53.5					
				Eastern Xijang - India border reg.					
				(h = 10 km).					

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

1992				1992					
Feb.	9	UPP	iP	13 20 36.5	Feb.	12	KIR	iP	12 09 27.9
				Qinghai, China (h = N).			UME	iP	12 09 46.8
"	9	UPP	iP	22 12 34.4 C					Near coast of Guerrero, Mexico
			i	22 13 03.0					(h = 30 km).
		KIR	iP	22 11 45.9 C	"	12	UPP	iP	16 00 11.9
				micr sec			UME	iP	16 00 38.3
			P	Z' 0.2 0.6					Turkey (h = 10 km).
		UME	iP	22 12 08.0 C	"	12	UPP	eP	16 04 49
				Kuril Islands (h = 120 km).			KIR	iP	16 05 45.8
"	10	UPP	iP	03 30 50.0			UME	iP	16 05 14.3
		KIR	iP	03 30 17.0					Turkey (h = 10 km).
		UME	iP	03 30 31.3 C	"	12	UPP	iP	23 12 55.8
				South of Honshu, Japan (h = 15 km).					
"	10	UPP	iP	09 02 07.9	"	13	UPP	i(PKP)	01 48 17.4
				Central Italy (h = 10 km).				iPKP	01 48 25.1
"	10	UPP	eP	12 50 58					micr sec
		KIR	iP	12 50 36.7			Mx	Z	31 20
				Taiwan region (h = 20 km).			KIR	iPKP	01 48 11.6
"	10	UPP	iP	16 47 19.3					micr sec
		KIR	iP	16 46 40.1			Mx	Z	20 22
		UME	iP	16 47 07.5			UME	iPKP	01 48 16.6
				Northern Iran (h = 45 km).					Vanuatu Islands (h = 10 km).
"	11	UPP	iP	22 22 22.1					M = 6.8 (UPP,KIR).
				micr sec	"	13	UPP	iP	02 29 18.2
			P	Z' 0.1 1.0			UME	iP	02 28 41.5
		KIR	iP	22 21 28.8					Near north coast of Greenland
		UME	iP	22 21 54.8					(h = 10 km).
				Andreanof Islands, Aleutian Is.	"	13	UPP	iP	02 49 05.6
				(h = 50 km).					micr sec
"	11	UPP	iP	22 43 24.1				P	Z' 0.1 1.0
		KIR	iP	22 42 31.3			KIR	iP	02 48 12.1
				Andreanof Islands, Aleutian Is.					micr sec
				(h = 45 km).				P	Z' 0.2 0.9
"	12	UPP	iP	01 12 58.8			UME	iP	02 48 39.3 C
			i	01 13 13.7					Fox Islands, Aleutian Islands
				micr sec					(h = 45 km).
			P	Z' 0.1 0.9	"	14	UPP	iP	03 32 42.0
		KIR	iP	01 12 05.7					Turkey (h = 15 km).
		UME	iP	01 12 31.8	"	14	UPP	iP	08 26 51.4
				Rat Islands, Aleutian Islands					micr sec
				(h = 50 km).			Mx	Z	11 14
"	12	UPP	i(P)	03 31 38.8					(cont).

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

1992				1992			
Feb.		(cont).		Feb.		(cont).	
14	KIR	iP	08 26 16.5 micr sec	19	UME	iPn	03 01 12.6
		P	Z' 0.4 1.8		UDD	iPn	03 01 34.2
		Mx	Z 2.4 10		MYV	iPn	03 01 03.0
	UME	iP	08 26 27.2		Norwegian Sea, 71.7°N, 1.5°W.		
	Lake Baykal region (h = 20 km).				Origin time = 02 58 32.		
	M = 5.6 (UPP,KIR).				Solution from Bergen regional bulletin.		
"	15	UPP	iP 12 58 10.9	"	19	KIR	iPn 04 49 07.6
		KIR	iP 12 58 49.0			UME	iPn 04 49 41.5
		UME	iP 12 58 23.4			UDD	iPn 04 50 04.6
	Eastern Caucasus (h = 15 km).				Norwegian Sea, 71.4°N, 0.1°W.		
"	15	UPP	eP 13 42 58		Origin time = 04 47 08.		
		KIR	eP 13 43 36		Solution from Bergen regional bulletin.		
		UME	iP 13 43 11.1	"	19	UPP	iPn 06 40 25.2
	Eastern Caucasus (h = N).					iPg	06 40 33.5
"	17	UPP	iP 00 08 48.2 D			iSn	06 41 04.3
		iPP	00 10 02			i	06 41 14.0
		iS	00 14 18			iSg	06 41 17.6
			micr sec		KIR	iSn	06 43 36.4
		P	Z' 0.5 1.5			iSg1	06 44 30.4
		Mx	Z 8.5 16		UME	iPn	06 41 21.4
	KIR	iP	00 07 38.5 D			iSg1	06 42 49.0
			micr sec		UDD	iPg1	06 39 59.7 C
		P	Z' 1.0 1.7			iSg1	06 40 20.6
		Mx	Z 10 15		DEL	iPn	06 40 21.2 C
	UME	iP	00 08 11.6			iPg1	06 40 26.9
	East of Severnaya Zemlya					iSn	06 40 57.9
	(h = 10 km).					iSg1	06 41 08.9
	m = 6.2, M = 5.5 (UPP,KIR).				MYV	iPn	06 40 33.6
"	17	UME	iP 14 25 17.4			iPg1	06 40 44.0
	Off east coast of Honshu, Japan					iSg1	06 41 36.0
	(h = 45 km).				Southeastern Norway, 59.3°N, 11.0°E.		
"	17	UME	iP 14 41 55.1		Origin time = 06 39 32.		
	East of Kuril Islands (h = N).				$M_L(UPP) = 3.7 (0.09) 4.$		
"	18	UME	iP 10 12 21.8		Felt with maximum intensity $I_0 = V$		
	Jan Mayen Island region (h = 10 km).				(MM). Radius of perceptibility is		
					70 km and macroseismic magnitude		
					$M_M = 3.6.$ Focal depth deduced from		
					macroseismic data is 15 km.		
"	18	UPP	iPKP1 17 26 33.1	"	19	UPP	iP 11 49 11.3
	Kermadec Islands region					KIR	iP 11 48 37.5
	(h = 490 km).						micr sec
"	19	KIR	iPn 03 00 36.0			P	Z' 0.3 1.8
	(cont).					UME	iP 11 48 52.1
					Bonin Islands region (h = 30 km).		

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

1992				1992					
Feb.	19	UPP	iP	15 17 59.2	Feb.	24	(cont).		
		KIR	iP	15 19 06.5			MYV	iSn 10 25 15.0	
		UME	iP	15 18 31.4				iSg1 10 25 36.0	
		Crete (h = 25 km).							
"	19	UPP	iP	20 26 53.3	"	24	UPP	iSg1 10 46 45.0	
		KIR	iP	20 26 06.4			UME	iSg1 10 47 36.5	
				micr sec			UDD	iSg1 10 45 55.1	
			P	Z' 0.1 0.9			MYV	iSg1 10 46 08.0	
		UME	iP	20 26 27.7 C	"	24	UPP	iSg1 14 05 57.3	
		Kuril Islands (h = N).					UME	iSg1 14 06 22.7	
"	20	UPP	eP	18 00 44			UDD	iSg1 14 04 58.0	
				micr sec			DEL	iSg1 14 06 10.3	
			Mx	Z 3.3 20			MYV	iSn 14 04 46.0	
		KIR	iP	18 00 17.2				iSg1 14 05 12.0	
				micr sec	"	24	UDD	iSg1 18 37 56.5	
			P	Z' 0.2 1.2			MYV	iSg1 18 38 08.0	
			Mx	Z 0.9 16	"	24	UDD	iSg1 19 01 10.5	
		UME	iP	18 00 27.8			MYV	iSg1 19 01 22.0	
		South of Mariana Islands							
		(h = 45 km).							
		M = 5.5				"	25	UDD	iSg1 12 04 20.3
"	20	UPP	iPKP1	20 55 12.0			MYV	iSg1 12 04 12.0	
		KIR	iPKP1	20 54 51.2			Off coast of southwestern Norway,		
		UME	iPKP1	20 54 59.1 D			62.0°N, 4.9°E.		
		South of Kermadec Islands					Origin time = 12 01 54.		
		(h = 50 km).					M _L (UPP) = 2.4 1.		
							Solution from Bergen regional		
							bulletin.		
"	21	UPP	iP	17 26 49.9	"	25	KIR	ePg1 22 09 51	
		KIR	iP	17 26 32.1				iSg1 22 10 21.9	
				micr sec			UME	iSn 22 10 44.9	
			P	Z' 0.1 1.0				iSg1 22 11 02.9	
		Halmahera, Indonesia (h = 80 km).					MYV	iPn 22 09 53.0	
"	21	KIR	eP	18 44 01				iSg1 22 10 56.0	
		Northern Molucca Sea (h = N).					Coast of northern Norway,		
"	21	UPP	iP	22 44 45.5			66.8°N, 13.9°E.		
		Southern Greece (h = 25 km).					Origin time = 22 08 57.		
							M _L (UPP) = 2.8 (0.27) 2.		
							By combination with Finnish station		
"	23	UPP	iPKP1	20 01 04.1 C			readings.		
		South of Fiji Islands (h = 440 km).				"	26	UPP	iP 03 55 02.4 D
"	24	UPP	iSg1	10 26 22.0				iS 04 02 52	
		UME	iSg1	10 27 05.2				micr sec	
		UDD	iSn	10 24 47.9				P Z' 0.6 1.1	
			iSg1	10 25 22.1				Mx Z 6.4 30	
		(cont).					(cont).		

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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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1992				1992					
Mar.	2	UPP	iP	03 59 33.6	Mar.	3	UPP	iPKP	01 37 22.8
		UME	iP	03 59 07.3				iSKP1	01 40 32.5
				Kuril Islands (h = 40 km).					micr sec
								P	Z' 0.2 1.0
"	2	UPP	iP	04 39 02.4			UME	iPKP	01 37 14.5
		UME	iP	04 38 36.4				iSKP1	01 40 19.5
				Kuril Islands (h = 40 km).					Vanuatu Islands (h = 150 km).
"	2	UPP	iPKP1	09 24 56.2	"	3	UPP	iP	03 22 46.8
		UME	iPKP1	09 25 48.4					micr sec
				North Island, New Zealand				P	Z' 0.3 0.9
				(h = 30 km).			UME	iP	03 22 21.1 C
"	2	UPP	iP	12 40 06.3					Kuril Islands (h = 20 km).
			iS	12 48 30	"	3	UPP	iP	04 39 04.9
			iP'P'	13 09 04.7					micr sec
				micr sec				P	Z' 0.2 0.9
			P	Z' 1.5 1.0				Mx	Z 7.9 17
			Mx	Z 104 21			UME	iP	04 38 39.1
		UME	iP	12 39 38.4 C					Kuril Islands (h = 40 km).
				Off east coast of Kamchatka	"	3	UPP	iP	04 53 58.3
				(h = 40 km).					Kuril Islands (h = 30 km).
				m = 7.1 (UPP,KIR).	"	3	UPP	iP	20 16 02.6
"	2	UPP	iP	14 18 27.6					East of Kuril Islands (h = N).
				Off east coast of Kamchatka	"	3	UPP	iP	23 32 02.6
				(h = 35 km).					Philippine Islands region (h = 40 km).
"	2	UPP	iP	20 36 42.2					
		UME	eP	20 37 29					
				Romania (h = 25 km).					

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

1992				1992			
Mar.	4	UPP Mx	04 50	Mar.	6	UPP iP	03 21 27.9
			micr sec			iPKP2	03 21 32.6
		Mx	Z 20 30			UME iP	03 21 15.6
		Bismarck Sea (h = 20 km).				Kermadec Islands region (h = N).	
"	4	UPP iP	08 55 25.9	"	7	UPP iP	02 06 14.5
		Near east coast of Kamchatka (h = N).				iP	02 06 35.5
						iPP	02 09 40
						iSKS	02 16 31
"	4	UPP iP	12 04 51.6			iS	02 16 44
			micr sec			isS	02 17 21
		P	Z' 0.2 1.0			iSS	02 22 35
		UME iP	12 05 04.6				micr sec
		Northern Iran (h = 20 km).				P	Z' 1.0 1.0
						Mx	Z 11.9 28
"	4	UME iSg1	12 29 19.1			KIR	micr sec
		Norrbotten, Sweden, 66.7°N, 22.5°E.				Mx	Z 3.1 16
		Origin time = 12 27 46.				UME iP	02 06 14.9 C
		M _L (UPP) = 2.4 1.				Costa Rica.	
		By combination with Finnish station readings.				h = 80 km (UPP).	
						m = 7.0, M = 5.9 (UPP,KIR).	
						M uncorrected for focal depth.	
"	5	UPP iP	02 22 44.0	"	7	UPP Mx	19 45
		UME iP	02 22 37.4				micr sec
		Kashmir - Xijang border region (h = 35 km).				Mx	Z 11 19
"	5	UPP iP	09 04 17.3			KIR Mx	19 45
		iS	09 11 36				micr sec
			micr sec			Mx	Z 2.7 17
		Mx	Z 17 25			Bismarck Sea (h = 15 km).	
		KIR	micr sec			M = 6.1 (UPP,KIR).	
		Mx	Z 14 16	"	7	UPP iP	20 18 53.6
		UME iP	09 05 35.7			UME iP	20 18 36.2
		Ethiopia (h = 5 km).				South of Kermadec Islands (h = N).	
		M = 6.0 (UPP,KIR).					
"	5	UPP iP	14 49 35.9	"	8	UPP iP	03 54 47.6
		i	14 49 37.7			i	03 54 52.8
			micr sec				micr sec
		iS	14 58 05.5			P	Z' 0.1 1.2
		iP'P'	15 18 16.3			UME iP	03 54 30.4
		i	15 18 35.7			i	03 54 34.8
			micr sec			Near coast of northern Calif. (h = 15 km).	
		P	Z' 1.7 1.0				
		Mx	Z 16 20	"	8	UPP iP	16 07 46.9
		KIR	micr sec			UME iP	16 07 19.0
		Mx	Z 9.9 18			Off east coast of Kamchatka (h = 30 km).	
		UME iP	14 50 07.7 C				
		Off east coast of Kamchatka (h = 45 km).					
		m = 6.9, M = 6.0 (UPP,KIR).					

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

1992				1992			
Mar.	8	UPP eP	21 42 18	Mar.	13	(cont).	
		Kuril Islands (h = 20 km).					micr sec
"	9	UPP iP	17 07 53.9			P	Z' 0.6 0.9
		Pakistan (h = 20 km).				UME iP	16 11 10.6 C
"	9	UME iP	18 26 32.0			Andreanof Islands, Aleutian Is. (h = 200 km).	
		Near s. coast of Honshu, Japan (h = 25 km).		"	13	UPP iP	17 23 57.4 D
"	10	UPP eP	05 53 55			iS	17 28 25.8
		East of Kuril Islands (h = N).					micr sec
"	11	UME ePKP1	18 44 43			P	Z' 8.8 1.5
		Kermadec Islands, New Zealand (h = 230 km).				Mx	Z 123 17
"	11	UPP iP	19 06 21.4			KIR	micr sec
		UME iP	19 06 01.1			Mx	Z 217 17
		Off east coast of Honshu, Japan (h = 25 km).				UME iP	17 24 17.6
"	11	UPP Mx	20 52			Turkey (h = 25 km). m = 7.0, M = 6.6 (UPP,KIR).	
			micr sec	"	13	UPP iP	18 43 15.3
		Mx	Z 8.0 21			UME iP	18 43 31.5
		Bismarck Sea (h = 30 km).				Turkey (h = 10 km).	
"	11	UDD iSg1	22 07 30.0	"	15	UPP iP	01 13 20.5
		MYV iSg1	22 07 13.6				micr sec
		Southwestern coast of Norway, 62.5°N, 5.7°E.				P	Z' 0.2 1.0
		Origin time = 22 05 12.				Mx	Z 19 17
		M _L (UPP) = 2.6 1.				KIR	micr sec
		Felt.				Mx	Z 5.5 17
		Solution from Bergen regional bulletin.				UME iP	01 13 04.4
"	12	UPP iP	00 14 23.2			Southwestern Ryukyu Islands (h = 30 km). M = 6.1 (UPP,KIR).	
		UME iP	00 14 55.7	"	15	UPP iP	07 34 07.9
		Near Islands, Aleutian Islands (h = 25 km).				UME iP	07 33 42.2
"	13	UPP iP	12 46 23.2			Kuril Islands (h = N).	
		UME iP	12 47 02.7	"	15	UPP iP	16 21 45.2
		Ionian Sea (h = 10 km).				iS	16 26 12
"	13	UPP iP	16 11 38.5 C				micr sec
		i	16 12 25.0			P	Z' 1.0 1.8
		iS	16 20 14			Mx	Z 10 15
		iP'P'	16 39 52.4			KIR	micr sec
		(cont.)				Mx	Z 15.7 19
						UME iP	16 22 05.9
						Turkey (h = 20 km). m = 6.1, M = 5.5 (UPP,KIR).	

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

1992				1992			
Mar.	15	UME iP	17 49 53.6	Mar.	19	(cont).	
		Ascension Island region				KIR iP	06 46 24.6
		(h = 10 km).					micr sec
"	16	UPP iP	01 27 52.9			P	Z' 0.5 1.5
		Xijang (h = N).				Mx	Z 4.9 14
"	16	UPP iPKP1	21 54 27.3			UME iP	06 46 17.3
		Kermadec Islands region (h = N).				Luzon, Philippine Islands h = 15 km. m = 6.4, M = 6.1 (UPP,KIR).	
"	16	UPP iPKP1	23 41 05.6	"	19	UPP iP	07 58 32.1
		UME iPKP1	23 40 55.7			KIR eP	07 58 14
		i	23 41 35.3			Luzon, Philippine Islands (h = 20 km).	
		Off e. coast of N. Island, N. Z.		"	19	KIR iPn	08 35 49.2
		(h = 180 km).				MYV iPn	08 36 50.0
"	17	UPP iP	02 26 22.7			Greenland Sea, 72.8°N, 8.3°E. Origin time = 08 34 14. By combination with Finnish station readings.	
		UME iP	02 26 19.1				
		Nicobar Islands, India (h = 70 km).		"	19	KIR iPn	10 49 42.5
"	17	UPP iP	06 56 43.7			UME iPn	10 50 31.3
		Near coast of Chiapas, Mexico				UDD iPn	10 51 08.0
		(h = 60 km).				MYV iPn	10 50 36.0
"	17	UPP iP	23 48 08.6			Greenland Sea (h = 10 km).	
		KIR iP	23 49 04.4	"	19	KIR iPn	11 04 24.7
		Afghanistan - Tajikistan bord. reg.				UME iPn	11 05 14.5
		(h = 230 km).				UDD iPn	11 05 51.0
"	18	UPP iP	16 36 08.1			MYV iPn	11 05 15.0
		KIR iP	16 35 22.6			Greenland Sea (h = 10 km).	
		Kuril Islands (h = 35 km).		"	19	KIR iPn	12 06 00.0
"	18	UPP iP	18 20 02.0			UME iPn	12 06 48.9
		KIR iP	18 19 13.5			Greenland Sea (h = 10 km).	
		Kuril Islands (h = N).		"	19	KIR iPn	12 14 14.6
"	18	UPP iPKP1	20 10 59.0			UME iPn	12 15 01.5
		South of Fiji Islands (h = 220 km).				Greenland Sea (h = 10 km).	
"	19	KIR iP	06 27 36.1	"	19	KIR iPn	12 18 39.2
		Leeward Islands (h = 35 km).				UME iPn	12 19 28.5
"	19	UPP iP	06 46 44.8			UDD iPn	12 20 08.5
		i	06 46 52.3			MYV iP	12 19 30.6
		iS	06 56 55			Greenland Sea (h = 10 km).	
			micr sec	"	19	KIR iPn	15 24 15.5
		P	Z' 0.7 1.6			UME iPn	15 25 07.4
		Mx	Z 9.6 16			Greenland Sea (h = 10 km).	

(cont).

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

1992				1992			
Mar.	19	KIR iP UME iP Eastern Caucasus (h = N).	19 22 30.6 19 22 04.5	Mar.	21	UPP ePKP1 UME iPKP1 Kermadec Islands region (h = 300 km).	12 25 51 12 25 33.5
"	19	KIR iPn UME iPn UDD iPn MYV iPn Greenland Sea (h = 10 km).	20 07 57.7 20 08 44.9 20 09 28.5 20 08 53.0	"	21	UPP iP UME iP Kuril Islands (h = 30 km).	17 38 16.3 17 37 47.3
"	19	UPP iP KIR iP Luzon, Philippine Islands (h = 15 km).	23 26 39.9 23 26 20.4	"	21	UPP iP KIR iP UME iP Near Islands, Aleutian Islands (h = N).	20 51 53.2 20 50 59.3 20 51 24.5
"	20	UPP iP Greece (h = 10 km).	02 31 53.7	"	21	UPP iP P Z' 0.1 1.0 KIR iP P Z' 0.1 1.0 UME iP Near Islands, Aleutian Islands (h = N). m = 5.8 (UPP,KIR).	20 56 37.6 C micr sec 20 55 44.0 C micr sec 20 56 09.7 C
"	20	UPP iP i iS micr sec Mx Z 4.9 11 KIR iP micr sec Mx Z 7.4 12 Southern Greece (h = 15 km). M = 5.4 (UPP,KIR).	05 42 33.5 05 42 45.0 05 46 50 05 43 44.7 05 43 44.7 05 43 44.7	"	21	UPP eP KIR iP UME iP Turkey (h = 15 km).	23 21 11 23 22 01.4 23 21 30.2
"	20	UPP iP i iS micr sec Mx Z 1.9 12 KIR micr sec Mx Z 3.7 12 UME iP Southern Greece (h = 10 km). M = 5.0 (UPP,KIR).	09 44 36.2 09 44 45.0 09 48 50 09 45 09.1	"	22	UPP iP KIR iP UME iP Andaman Islands, India (h = N).	01 59 27.6 01 59 29.4 01 59 23.6
"	20	UME iP Near coast of Guatemala (h = 60 km).	17 29 00.6	"	22	UME iP Kuril Islands (h = 35 km).	08 34 20.4
"	20	UPP iP KIR iP micr sec P Z' 0.3 1.0 UME iPKP South Sandwich Islands region (h = 110 km).	19 03 49.5 19 04 04.8 C 19 03 56.2 C	"	22	UPP iP KIR eP UME iP Turkey (h = 20 km).	11 54 45.8 11 54 24.6 16 57 04.6 16 58 15 16 57 38.8
"	20	UPP iP KIR eP UME iP Vanuatu Islands (h = N).	21 04 23.3	"	22	UPP iP KIR eP UME iP South of Honshu, Japan (h = 150 km).	11 54 45.8 11 54 24.6 16 57 04.6 16 58 15 16 57 38.8

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

1992				1992							
Mar.	23	KIR	iPg1	03 22 13.5	Mar.	24	UPP	iP	21 09 55.5 C		
			iSg1	03 22 23.4			KIR	iP	21 10 04.2		
		UME	iSg1	03 23 58.8			UME	iP	21 09 52.7		
		Norrbotten, Sweden, 67.6°N, 22.3°E.					Pakistan (h = 15 km).				
		Origin time = 03 22 00.					"	24	KIR	iP	23 00 44.6
		$M_L(\text{UPP}) = 2.5$ 1.							UME	iP	23 00 19.2
		By combination with Norwegian station readings.					Taland Islands, Indonesia (h = 55 km).				
"	23	UME	iP	06 56 08.6	"	25	UPP	eP	04 03 50		
		Southern Greece (h = 15 km).							UME	iP	04 04 09.7
							Turkey (h = 10 km).				
"	23	UPP	iPKP1	07 31 44.2	"	25	UPP	iP	17 27 20.4 C		
			iPKP2	07 31 48.6					micr	sec	
		UME	iPKP1	07 31 31.8					P	Z'	0.1 0.7
		Kermadec Islands region					KIR	iP	17 26 55.6		
		(h = 310 km).					UME	iP	17 27 03.2		
"	23	UME	iP	10 54 16.0			Southwestern Ryukyu Islands				
		Panama (h = 15 km).					(h = 80 km).				
"	24	KIR	iPn	01 15 53.5	"	25	UPP	i(P)	17 30 13.0		
			iPg1	01 16 00.5			"	25	UPP	iPKP1	17 47 34.8
			iSg1	01 16 41.4					KIR	iPKP1	17 47 15.4
		UME	iSn	01 17 59.5					UME	iPKP1	17 47 19.6
			iSg1	01 18 41.0			North Island, New Zealand				
		UDD	iLg1	01 20 27.0			(h = 35 km).				
		MYV	iSn	01 18 18.2	"	25	UPP	iP	21 51 30.2		
		Norwegian Sea, 70.6°N, 17.4°E.							ipP	21 52 05.7	
		Origin time = 01 15 07.					KIR	iP	21 50 35.0		
		$M_L(\text{UPP}) = 3.4$ (0.08) 2.							ipP	21 51 11.4	
		By combination with Finnish station readings.					Near east coast of Kamchatka.				
"	24	KIR	ePn	08 18 56			h = 140 km (UPP,KIR).				
			iPg1	08 19 03.5	"	25	UPP	iP	22 42 50.2 C		
			iSg1	08 19 39.6					ipP	22 43 16.3	
		UME	iSn	08 21 03.5					micr	sec	
			iSg1	08 21 43.5					P	Z'	0.3 1.0
		Norwegian Sea, 70.4°N, 16.7°E.					KIR	iP	22 42 41.5		
		Origin time = 08 18 09.					UME	iP	22 42 41.4 C		
		$M_L(\text{UPP}) = 3.9$ 1.							ipP	22 43 06.2	
		By combination with Finnish station readings.					Myanmar.				
"	24	KIR	iP	17 32 42.2			h = 100 km (UPP,UME).				
		Bali Sea (h = 280 km).			"	26	UPP	iP	13 13 31.1		
							UME	iP	13 13 43.0		
"	24	KIR	iP	19 41 08.0	"	26	KIR	iP	14 21 10.3		
		UME	iP	19 40 58.9			Mariana Islands (h = 55 km).				
		Xijang (h = 15 km).									

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

1992				1992							
Mar.	26	UPP	iP	14 25 10.4	Mar.	27	UPP iP	19 26 11.4			
			iPP	14 27 31.1			KIR eP	19 27 00			
			iS	14 33 54			UME iP	19 26 30.4			
				micr sec			Northwestern Caucasus (h = N).				
			P	Z' 0.7 1.0		"	27	UPP iP	20 38 08.3 C		
			Mx	Z 3.6 18				i	20 38 37.5		
		KIR	iP	14 24 16.9 C				iS	20 46 12.6		
				micr sec					micr sec		
			P	Z' 0.2 1.0				P	Z' 0.3 0.6		
			Mx	Z 2.1 19			KIR	iP	20 38 22.4		
		UME	iP	14 24 42.6					micr sec		
		Andreanof Islands, Aleutian Is. (h = N).						P	Z' 0.5 0.9		
		m = 6.4, M = 5.4 (UPP,KIR).					UME	iP	20 38 42.1 C		
							Northwest of Kuril Islands (h = 450 km).				
"	26	UPP	iP	16 41 48.3			m = 6.0 (UPP,KIR).				
		KIR	iP	16 41 14.1		"	28	UME	iPKP	00 44 13.6	
		UME	iP	16 41 32.4			Santa Cruz Islands (h = 200 km).				
		Southern Nevada. Underground explosion.					"	28	UPP	iPKP1	02 19 19.5
"	26	UPP	iP	16 44 43.9					iPKP2	02 19 26.0	
		Andreanof Islands, Aleutian Is. (h = N).					KIR	iPKP1	02 19 00.3		
"	27	UPP	iP	00 15 54.8 D			UME	iPKP1	02 19 04.4		
				micr sec			South of Kermadec Islands (h = 35 km).				
			P	Z' 0.1 0.7		"	28	UPP	iP	03 01 10.6	
		KIR	iP	00 15 45.3 D			Myanmar (h = N).				
				micr sec		"	29	UME	iP	00 14 01.9	
			P	Z' 0.1 0.6			Mariana Islands region (h = N).				
		UME	iP	00 15 47.2 D		"	29	UPP	iP	00 44 53.1	
			i	00 16 10.7			KIR	iP	00 44 12.5		
		Myanmar (h = 100 km).					UME	iP	00 44 31.5		
		m = 5.9 (UPP,KIR).					Sakhalin Island (h = 310 km).				
"	27	UPP	iP	10 47 21.4		"	29	UPP	iP	08 39 55.9	
		UME	iP	10 47 17.6			Near east coast of Honshu, Japan (h = 70 km).				
		Pakistan (h = 35 km).				"	29	UPP	iPKP1	12 37 42.5	
"	27	UPP	iP	11 25 48.3			KIR	ePKP	12 37 40.5		
		Southern Iran (h = 35 km).					Fiji Islands region (h = 540 km).				
"	27	UPP	iP	13 33 39.3		"	29	UPP	iP	13 13 00.8	
				micr sec			KIR	iP	13 12 28.8		
			P	Z' 0.2 1.4			Bonin Islands region (h = 35 km).				
		KIR	eP	13 32 46							
		UME	iP	13 33 10.5							
		Andreanof Islands, Aleutian Is. (h = 180 km).									

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

1992					1992				
Mar.	29	UPP	iP	23 49 03.0	Mar.	31	UPP	iP	15 08 04.3
			eS	23 51 51				eS	15 10 54
			Ukraine - Moldova - SW Russia region (h = N).				KIR	eP	15 09 29
							UME	iP	15 08 43.5
			Romania (h = 150 km).						
"	30	UPP	iPKP1	06 29 25.4	"	31	UPP	iP	21 09 26.3
			Kermadec Islands (h = 30 km).				KIR	eP	21 09 10
"	30	KIR	iPKP1	07 22 48.5			Near coast of Guerrero, Mexico (h = 50 km).		
		UME	iPKP1	07 22 47.8					
		South Island, New Zealand (h = 10 km).							
"	30	KIR	iP	12 28 20.1					
		Mariana Islands (h = 210 km).							
"	30	UPP	iP	19 17 09.4					
"	30	UPP	iP	19 20 42.6					
				micr sec					
		Mx	Z	3.5 11					
		North Atlantic Ocean (h = 10 km).							
"	30	UPP	iP	19 36 25.5					
		UME	iP	19 37 04.9					
		Albania (h = 10 km).							
"	30	UPP	iP	20 56 40.1 C					
				micr sec					
			P	Z' 0.1 0.8					
		KIR	iP	20 55 55.9 C					
				micr sec					
			P	Z' 0.2 1.0					
		UME	iP	20 56 14.7 C					
		Hokkaido, Japan region (h = 40 km).							
		m = 6.1 (UPP,KIR).							
"	30	UPP	iP	22 33 03.5					
"	31	UPP	iP	03 02 47.2					
		KIR	eP	03 01 48					
		Eastern Greenland (h = 10 km).							
"	31	UPP	iPKP	03 51 50.8					
		KIR	ePKP	03 51 45.2					
		Southern East Pacific Rise (h = 10 km).							
"	31	UPP	iP	09 45 26.8					
		KIR	eP	09 44 44					
		Kuril Islands (h = 60 km).							

September 20, 1993
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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, 1992

1992					1992				
Apr.	1	UPP	iP	13 31 07.1	Apr.	3	UPP	Mx	04 31
"	1	UPP	iPKP	15 26 39.4				Mx	Z 12 20
		UME	iPKP	15 26 21.8		KIR	Mx		04 29
		Kermadec Islands region (h = 10 km).						Mx	Z 5.0 18
"	1	UPP	iP	21 03 03.2		New Britain region (h = 25 km).			
		Xijang (h = 50 km).				M = 6.3 (UPP,KIR).			
"	1	KIR	iPKP	21 20 25.9	"	3	UPP	iP	14 09 28.6
		UME	iPKP	21 20 30.8		Ryukyu Islands (h = 30 km).			
		Vanuatu Islands region (h = 620 km).			"	3	UPP	iP	16 22 36.2
"	1	KIR	iSg1	23 32 29.8		Southwestern Ryukyu Islands			
		UME	iSn	23 32 50.9		(h = 30 km).			
			iSg1	23 33 09.3	"	3	UPP	iP	17 25 18.7
		MYV	iSg1	23 33 04.2		3	UPP	iP	18 20 30.9
		Off coast of northern Norway, 66.9°N, 13.4°E.				Myanmar (h = N).			
		Origin time = 23 31 03.			"	4	UPP	iPKP	01 29 19.8
		Solution from Norwegian station readings.						iSKP	01 32 10.2
"	2	UPP	Mx	07 37		KIR	iPKP		01 29 14.6
				micr sec		UME	iPKP		01 29 17.1
			Mx	Z 0.9 22		Fiji Islands region (h = 570 km).			
		Southern Mid-Atlantic Ridge (h = 10 km).			"	4	UPP	iP	10 00 47.2
"	2	UPP	iP	21 13 47.0		KIR	iP		10 00 11.0
		KIR	iP	21 14 17.2		UME	iP		10 00 25.6
		Central Mid-Atlantic Ridge (h = 10 km).				South of Honshu, Japan (h = 70 km).			

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

1992						1992				
Apr.	4	UPP	iP	16 33 42.2		Apr.	5	UPP	iP	13 35 50.5
				micr sec						micr sec
			P	Z' 0.1 1.4					P	Z' 0.1 0.9
		KIR	iP	16 32 46.7				KIR	iP	13 35 00.3
				micr sec				UME	iP	13 35 22.2
			P	Z' 0.1 0.9				Kuril Islands (h = 60 km).		
		UME	iP	16 33 08.7		"	5	UPP	Mx	15 01
		Off east coast of Kamchatka								micr sec
		(h = 30 km).							Mx	Z 1.7 24
		m = 5.8 (UPP,KIR).						KIR	Mx	15 05
"	4	UPP	iP	17 52 58.8						micr sec
				micr sec					Mx	Z 2.6 19
			P	Z' 0.1 1.0				Near coast of Nicaragua (h = 30 km).		
		Xijang (h = N).						M = 5.4 (UPP,KIR).		
"	4	UPP	Mx	23 03		"	6	UPP	iP	03 46 01.5
				micr sec				KIR	iP	03 45 16.7
			Mx	Z 1.7 25				UME	iP	03 45 35.4
		Santa Cruz Islands (h = 45 km).						Kuril Islands (h = 80 km).		
"	5	UPP	iP	00 11 14.8		"	6	UPP	iP	13 13 29.2
								Sicily (h = 20 km).		
"	5	UPP	iP	07 56 14.5		"	6	UPP	iP	14 05 32.8
			i	07 56 20.4					i	14 05 38.2
			iS	08 03 03					iS	14 14 26
				micr sec					iP'P'	14 34 07.8
			P	Z' 0.1 0.9						micr sec
			P	Z' 0.3 0.9					P	Z' 0.1 1.0
			Mx	Z 3.5 12					i	Z' 0.3 1.4
		KIR	iP	07 56 12.9					Mx	Z 98 23
			ipP	07 56 17.4				KIR	iP	14 04 45.8
				micr sec					ipP	14 04 50.9
			pP	Z' 0.3 1.0						micr sec
			Mx	Z 5.1 12					P	Z' 1.6 2.8
		UME	iP	07 56 05.6					pP	Z' 0.9 1.8
			iP	07 56 10.7					Mx	Z 76 20
		Kashmir - Xijang border region						UME	iP	14 05 06.0
		(h = 20 km).							ipP	14 05 11.6
		m = 6.3, M = 5.6 (UPP,KIR).						Vancouver Island region (h = 20 km).		
"	5	UPP	Mx	12 59		"	6	UPP	iP	14 59 24.9 D
				micr sec					i	14 59 35.4
			Mx	Z 4.5 22						micr sec
		KIR	Mx	12 58					P	Z' 0.1 0.6
				micr sec				KIR	iP	14 59 26.1
			Mx	Z 2.8 24						micr sec
		Santa Cruz Islands (h = 50 km).							P	Z' 0.2 0.9
		M = 5.9 (UPP,KIR).						(cont).		

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

1992				1992			
Apr.	6	(cont.) UME iP	14 59 21.4	Apr.	9	UPP iP	08 26 53.1
		Southwest of Sumatera, Indonesia (h = 30 km). m = 6.3 (UPP,KIR).				KIR iP	08 26 00.6
						Near east coast of Kamchatka (h = N).	
"	6	UPP iP	15 27 03.2	"	9	UPP iP	21 25 01.8 C
			micr sec			i	21 25 15.4
		P	Z' 0.1 1.2			P	Z' 0.2 1.1
		Mx	Z 9.0 22			Mx	Z 0.8 20
		KIR iP	15 26 17.3			KIR iP	21 24 08.2
		Vancouver Island region (h = 10 km).					micr sec
						P	Z' 0.3 0.9
						Mx	Z 0.8 15
"	6	UPP iP	15 38 43.0			UME iP	21 24 32.5
		North Atlantic Ocean (h = 10 km).				Off east coast of Kamchatka (h = 45 km). m = 6.2, M = 4.9 (UPP,KIR).	
"	6	UPP iP	16 20 57.3	"	10	UPP iP	16 27 42.6
			micr sec			KIR iP	16 27 41.1
		P	Z' 0.4 1.4			UME iP	16 27 38.5
		KIR iP	16 20 54.0			Southern Sumatera (h = 230 km).	
			micr sec				
		P	Z' 0.2 1.2				
		UME iP	16 20 57.1	"	12	UPP iP	18 48 59.0
		North Atlantic Ocean (h = 10 km). m = 5.8 (UPP,KIR).				i	18 49 10.7
							micr sec
"	6	UPP iP	16 25 04.8			P	Z' 0.2 1.0
		North Atlantic Ocean (h = 10 km).				Mx	Z 2.4 15
"	6	UPP iP	16 30 42.8			KIR iP	18 48 48.3
							micr sec
"	6	UPP iP	17 44 47.4			P	Z' 0.2 1.2
						Southeast of Ryukyu Islands (h = 40 km). m = 6.1 (UPP,KIR).	
"	6	UPP iP	19 33 23.1				
"	6	UPP iP	19 25 06.1	"	13	UPP iP	01 22 33.0
		North Atlantic Ocean (h = 10 km).				iS	01 24 31.5
							micr sec
"	8	UPP Mx	24 01			P	Z' 0.2 0.9
			micr sec			Mx	Z 47 11
		Mx	Z 5.7 20			KIR iP	01 24 11.3
		Vanuatu Islands (h = 15 km).				iS	01 27 33.5
							micr sec
"	8	UPP Mx	15 23			P	Z' 0.7 1.7
			micr sec			Mx	Z 21 10
		Mx	Z 3.2 23			UME iP	01 23 25.2
		Vanuatu Islands (h = 15 km).				iS	01 26 08.2
"	9	UPP iPKP2	05 22 55.9			UDD iP	01 22 30.3
		Kermadec Islands region (h = 10 km).				MYV iP	01 22 58.0
						iS	01 25 12.0
						The Netherlands (h = 20 km).	

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

1992				1992					
Apr.	13	UPP	iP	06 10 00.6	Apr.	15	(cont).		
		KIR	iP	06 09 18.7			UPP		
		Near east coast of Honshu, Japan					micr sec		
		(h = 60 km).				P	Z' 0.3 1.0		
"	14	UPP	iP	03 15 17.9			i	Z' 0.5 1.0	
		KIR	iP	03 14 39.9			KIR	iP	05 45 17.4
		Eastern Honshu, Japan (h = 55 km).					ipP	05 45 16.4	
"	14	UPP	iPn	13 11 43.7				micr sec	
			iSn	13 12 36.0			P	Z' 0.3 1.0	
			iSg1	13 13 13.1			UME	iP	05 45 42.3
		KIR	iSn	13 14 48.1			ipP	05 45 54.0	
			iSg1	13 15 41.4			Andreasof Islands, Aleutian Is.		
		UME	iSn	13 13 27.7			h = 45 km (UPP,KIR).		
			iSg1	13 14 19.8			m = 6.4 (UPP,KIR).		
		UDD	iPn	13 11 13.1	"	16	UPP	Mx	09 00
			iPg1	13 11 19.7				micr sec	
			iSg1	13 12 09.0			Mx	Z 1.6 20	
		MYV	iPn	13 11 27.0			KIR	Mx	08 59
			iPg1	13 11 44.8				micr sec	
			iSg1	13 12 52.8			Mx	Z 2.1 19	
		Southwestern Norway, 59.5°N, 5.7°E.					Minihassa Peninsula (h = 30 km).		
		Origin time = 13 10 08.					M = 5.5 (UPP,KIR).		
		M _L (UPP) = 4.0 (0.13) 2.		"	16	UPP	iSg1	10 24 03.0	
		Felt.				KIR	iSn	10 23 25.4	
		By combination with Finnish and					iSg1	10 23 36.9	
		Norwegian station readings.				UME	iPg1	10 21 50.2	
"	15	UPP	iP	01 42 26.0			iSg1	10 21 54.9	
			iS	01 50 46			MYV	iPg1	10 22 33.2
			micr sec				iSg1	10 23 13.8	
		Mx	Z 0.8 20				Västerbotten, Sweden, 64.2°N, 20.6°E.		
		KIR	iP	01 42 19.4			Origin time = 10 21 43.		
			micr sec				M _L (UPP) = 2.8 (0.35) 2.		
		P	Z' 0.4 1.0				Felt with maximum intensity		
		Mx	Z 0.7 14				I ₀ =IV (MM).		
		UME	iP	01 42 17.6			By combination with Finnish and		
		Myanmar - India border region					Norwegian station readings.		
		(h = 120 km).		"	16	UPP	iP	16 21 04.6	
		M = 4.9 (UPP,KIR).				Afghanistan - Tajikistan border region			
		M uncorrected for focal depth.				(h = 90 km).			
"	15	UPP	iP	04 09 36.4	"	17	UPP	iP	08 02 20.6
"	15	UPP	iP	05 46 10.3	"	17	UPP	iP	12 02 55.8
			i	05 46 20.3	"	17	UPP	iP	18 40 25.7
			i	05 46 29.9	"	18	UPP	iP	07 25 42.4
							Indian Sea (h = 10 km).		

(cont).

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

1992				1992			
Apr.	23	UPP	iP	14 29 26.2	Apr.	24	(cont).
			i	14 29 31.1			KIR
			iS	14 38 20			micr sec
				micr sec			P Z' 0.3 0.9
			P	Z' 0.1 1.0			Mx Z 24 13
			i	Z' 0.5 1.1			Pakistan (h = 25 km).
			Mx	Z 13 17			m = 6.3, M = 6.2 (UPP,KIR).
		KIR	iP	14 29 17.5	"	24	UPP Mx 18 37
			ipP	14 29 21.5			micr sec
				micr sec			Mx Z 1.3 24
			P	Z' 0.7 1.3			KIR Mx 18 46
			Mx	Z 16 15			micr sec
				Myanmar - China border region			Mx Z 1.2 16
				(h = 10 km).			Central coast Pacific Rise
				m = 6.7, M = 6.2 (UPP,KIR).			(h = 10 km).
							M = 5.5 (UPP,KIR).
"	23	UPP	iP	15 43 39.8	"	24	UPP iP 18 54 46.3
			i	15 43 43.1			
			iS	15 52 34			
				micr sec			
			P	Z' 0.1 0.7	"	25	UPP iP 06 52 46.4
			P	Z' 0.4 1.0			Iceland (h = 10 km).
			Mx	Z 14 17			
		KIR	iP	15 43 31.3	"	25	UPP iP 12 50 43.6 D
				micr sec			iS 12 54 24.3
			P	Z' 0.5 1.1			micr sec
			Mx	Z 19 20			P Z' 0.2 0.9
				Myanmar - China border region			KIR iP 12 51 57.7
				(h = 10 km).			micr sec
				m = 6.6, M = 6.2 (UPP,KIR).			P Z' 0.1 1.1
							Sicily (h = 250 km).
							m = 5.5 (UPP,KIR).
"	23	UPP	iP	17 25 51.9	"	25	UPP iP 18 17 47.4 C
				Myanmar - China border region			iS 18 27 28
				(h = N).			micr sec
"	23	UPP	iP	18 29 04.5			P Z' 0.7 1.0
				Myanmar - China border region			Mx Z 182 18
				(h = N).			KIR iP 18 17 09.0
							micr sec
"	24	UPP	iP	01 31 01.4			P Z' 2.2 1.6
		KIR	iP	01 30 14.7			Mx Z 139 18
				Kuril Islands (h = 15 km).			Near coast of northern Calif.
"	24	UPP	iP	07 15 47.0			(h = 15 km).
			iS	07 22 33			m = 6.9, M = 7.3 (UPP,KIR).
				micr sec	"	25	UPP iP 18 24 06.8
			P	Z' 0.5 1.1			
			Mx	Z 18 12	"	26	UPP iP 07 53 22.4 C
		KIR	iP	07 16 07.5			iS 08 03 04
				(cont).			(cont).

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

1992				1992			
May	7	(cont). KIR iP	06 34 07.4 micr sec	May	12	UPP iP	04 19 27.0
		P Z' 0.3 1.0		"	12	UPP iPdiff	16 00 41.2
		Mx Z 15 18				KIR iPdiff	16 00 44.7
		Hokkaido, Japan region (h = 15 km). m = 6.3, M = 6.2 (UPP,KIR).				Near coast of northern Peru (h = 60 km).	
"	7	KIR iPn	08 27 01.9	"	12	UPP iPKP	18 25 02.0
		Svalbord region (h = 10 km).				iPP	18 28 35
						Mx Z 16 22	
"	7	UPP iP	19 20 33.3			KIR iPKP	18 24 47.6
		KIR iP	19 21 23.5			Mx Z 17 22	
		Turkey (h = 20 km).				Samoa Islands region (h = 15 km). M = 6.6 (UPP,KIR).	
"	9	KIR iP	06 34 52.3	"	14	UPP iP	03 46 08.6
		Iran - Iraq border region (h = 45 km).				KIR iP	03 45 15.5
"	9	UPP iP	13 10 09.7			Off east coast of Kamchatka (h = 40 km).	
"	10	UPP iP	04 12 17.3	"	14	UPP ePKP1	08 33 11
		iS	04 18 32			UME iPKP1	08 33 08.6
		P Z' 0.3 1.3				South of Kermadec Islands (h = 80 km).	
		Mx Z 12 10		"	14	UPP eP	13 02 21
		KIR iP	04 12 22.7			UME iP	13 02 09.0
		P Z' 0.3 1.3				South of Kermadec Islands (h = N).	
		Mx Z 11 15		"	15	UPP iP	05 33 00.4
		Tajikistan (h = N). m = 5.9, M = 5.9 (UPP,KIR).				KIR iP	05 32 07.0 C
"	10	UPP iP	18 09 45.3			Off east coast of Kamchatka (h = 40 km).	
		KIR iP	18 09 06.0	"	15	UPP iPKP1	05 55 58.7
		Near coast of northern California (h = 15 km).				South of Kermadec Islands (h = N).	
"	10	KIR iP	23 03 21.3	"	15	UPP iPKP1	05 59 34.8
		Tajikistan (h = N).				i	05 59 50.2
"	11	UPP iP	10 18 58.7			South of Kermadec Islands (h = N).	
		i	10 19 15.3	"	15	KIR iP	05 58 57.2
		KIR iP	10 18 36.5			Off east coast of Kamchatka (h = 45 km).	
		Near east coast of Honshu, Japan (h = 60 km).		"	15	UPP iPKP1	06 20 54.1
"	12	UPP iP	03 49 26.5			i	06 21 02.0
		ipP	03 49 57.6			South of Kermadec Islands (h = N).	
		KIR iP	03 48 30.8				
		Southern Alaska. h = 140 km (UPP).					

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

1992				1992			
May	18	(cont). Off coast of southern Norway, 57.1°N, 6.7°E. Origin time = 05 28 37. $M_L(\text{UPP}) = 3.0 (0.14) 2.$ By combination with Norwegian station readings.		May	19	UPP iP	10 56 04.7 Northwestern Balkan region (h = 10 km).
"	18	UPP iPKP1 11 20 00.0 Fiji Islands region (h = 540 km).		"	19	UPP iP	12 32 35.8 C micr sec P Z' 0.1 0.9 Mx Z 1.8 15
"	18	UPP iSg1 13 50 42.5 KIR iPn 13 47 46.2 iSg1 13 48 30.1 UME iPn 13 48 05.7 iSn 13 48 50.6 iSg1 13 49 08.1 UDD iSn 13 49 56.1 iSg1 13 50 30.5 MYV iPn 13 48 02.0 iSg1 13 49 04.0 Coast of northern Norway, 66.9°N, 13.6°E. Origin time = 13 47 02. $M_L(\text{UPP}) = 3.3 (0.14) 3.$ Felt. By combination with Finnish station readings.		"	19	KIR iP	12 33 09.5 C micr sec P Z' 0.3 1.1 Mx Z 2.1 10
"	18	UPP iP 23 32 11.6 iS 23 42 58 micr sec Mx Z 7.7 24 KIR iP 23 32 10.3 micr sec P Z' 1.3 3.0 Mx Z 3.1 18 UME iP 23 32 14.1 South of Panama (h = 20 km). M = 5.8 (UPP,KIR).		"	19	UME iP	12 32 48.1 C Southern Iran (h = N). m = 5.8, M = 5.2 (UPP,KIR).
"	18	UPP iSg1 13 50 42.5 KIR iPn 13 47 46.2 iSg1 13 48 30.1 UME iPn 13 48 05.7 iSn 13 48 50.6 iSg1 13 49 08.1 UDD iSn 13 49 56.1 iSg1 13 50 30.5 MYV iPn 13 48 02.0 iSg1 13 49 04.0 Coast of northern Norway, 66.9°N, 13.6°E. Origin time = 13 47 02. $M_L(\text{UPP}) = 3.3 (0.14) 3.$ Felt. By combination with Finnish station readings.		"	20	UPP Mx	19 59 micr sec Mx Z 2.6 21 Solomon Islands (h = 35 km).
"	18	UPP iP 23 32 11.6 iS 23 42 58 micr sec Mx Z 7.7 24 KIR iP 23 32 10.3 micr sec P Z' 1.3 3.0 Mx Z 3.1 18 UME iP 23 32 14.1 South of Panama (h = 20 km). M = 5.8 (UPP,KIR).		"	20	UPP iP	12 28 37.4 iPP 12 30 20 iS 12 35 02 micr sec P Z' 0.4 1.1 Mx Z 30 16 KIR iP 12 28 47.9 micr sec P Z' 0.9 1.5 Mx Z 50 12 UME iP 12 28 38.2 Pakistan (h = 15 km). m = 6.3, M = 6.4 (UPP,KIR).
"	18	UPP iP 23 32 11.6 iS 23 42 58 micr sec Mx Z 7.7 24 KIR iP 23 32 10.3 micr sec P Z' 1.3 3.0 Mx Z 3.1 18 UME iP 23 32 14.1 South of Panama (h = 20 km). M = 5.8 (UPP,KIR).		"	21	UPP iP	05 08 25.0 C i 05 08 46.7 iPP 05 10 11.0 micr sec P Z' 2.5 0.7 Mx Z 2.9 10
"	18	UPP iP 23 32 11.6 iS 23 42 58 micr sec Mx Z 7.7 24 KIR iP 23 32 10.3 micr sec P Z' 1.3 3.0 Mx Z 3.1 18 UME iP 23 32 14.1 South of Panama (h = 20 km). M = 5.8 (UPP,KIR).		"	21	UPP iP	05 08 25.0 C i 05 08 46.7 iPP 05 10 11.0 micr sec P Z' 2.5 0.7 Mx Z 2.9 10
"	19	KIR iPg1 08 30 56.3 iSg1 08 31 23.5 UME iSg1 08 32 37.8 Off coast of northwestern Norway. 68.1°N, 14.9°E. Origin time = 08 30 25. $M_L(\text{UPP}) = 2.9 1.$ Solution from Norwegian station readings.		"	21	KIR iP	05 08 09.9 C i 05 08 28.2 iPP 05 09 53.0 micr sec P Z' 2.1 0.8 Mx Z 2.2 14 UME iP 05 08 11.2 C Southern Xinjiang, China. m = 7.2, M = 5.3 (UPP,KIR).

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1992				1992			
May	24	UPP iP UME iP Greece - Albania border region (h = 50 km).	06 49 31.1 06 50 12.6	May	25	(cont). UME iP Cuba region (h = 25 km). m = 6.5, M = 6.9 (UPP,KIR).	17 06 51.5 C
"	24	UPP iP Andreanof Islands, Aleutian Is. (h = 50 km).	13 01 14.6	"	25	UME iP Cuba region (h = N).	18 40 50.3
"	24	UPP iP KIR iP UME iP Halmahera, Indonesia (h = 140 km).	20 50 06.5 20 49 50.0 20 49 56.6	"	25	UPP iP KIR iP UME iP Gulf of California (h = 10 km).	20 53 03.7 20 52 38.5 20 52 53.9
"	25	UPP iP Kyrgyzstan (h = N).	01 55 02.6	"	26	UPP iP Ryukyu Islands (h = 90 km).	03 56 20.6
"	25	UPP ePdiff iPP micr sec Mx Z 1.4 20 KIR iPdiff Irian Jaya, Indonesia (h = N).	03 06 02 03 10 37.6 03 05 40.5	"	26	UME iP South of Honshu, Japan (h = 70 km).	13 44 26.0
"	25	UPP iP KIR iP UME iP Afghanistan - Tajikistan bord. reg. (h = 50 km).	05 15 51.4 05 16 00.6 05 15 50.3	"	26	UPP Mx micr sec Mx Z 0.9 22 Irian Jaya region, Indonesia (h = 55 km).	17 30 0.9 22
"	25	UPP iP KIR iP UME iP South of Honshu, Japan (h = 40 km).	08 33 49.5 08 33 13.1 08 33 29.0	"	26	UPP iP UME iP Philippine Islands region (h = 55 km).	19 08 57.0 19 08 42.8
"	25	UPP iP Mindoro, Philippine Islands (h = 90 km).	08 43 59.5	"	27	KIR iP UME iP Arabian Sea (h = 10 km).	01 04 48.5 01 04 38.4
"	25	UPP iP iS micr sec P Z' 0.3 1.1 Mx Z 109 30 KIR iP i micr sec P Z' 1.4 1.6 Mx Z 44 16	17 06 50.4 C 17 16 32 0.3 1.1 109 30 17 06 45.0 17 06 47.4 1.4 1.6 44 16	"	27	UPP iPKP1 UME iPKP1 South of Kermadec Islands (h = N).	02 58 53.1 02 58 43.1
(cont).				"	27	UPP iPdiff iPKP iPP micr sec Mx Z 32 18 KIR iPKP micr sec Mx Z 28 34 UME iPKP Santa Cruz Islands (h = 20 km). M = 6.9 (UPP,KIR).	05 29 17 05 32 38.9 05 34 30 32 18 05 32 26.5 28 34 05 32 31.7

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

1992				1992			
May	27	UPP iP UME iP	08 33 25.7 08 33 04.4	May	28	UPP iP i iS	21 35 42.2 C 21 35 43.1 21 44 37
			Near east coast of Honshu, Japan (h = 50 km).				micr sec
"	27	UPP iP KIR iP UME iP	12 15 07.9 12 15 07.7 12 15 04.9			P Mx KIR iP	Z' 0.6 1.2 Z 3.8 19 21 34 52.2 C
			Northern Sumatera, Indonesia (h = 130 km).				micr sec
						P Mx	Z' 0.7 1.5 Z 3.8 18
"	27	UPP iP KIR iP UME iP	17 30 14.9 17 29 39.8 17 29 56.1			UME iP i	21 35 15.4 C 21 35 16.2
			South of Honshu, Japan (h = N).				East of Kuril Islands (h = 15 km). m = 6.6, M = 5.6 (UPP,KIR).
"	27	UME iP	17 44 36.7	"	28	UPP iP eS	23 31 26.4 C 23 41 12
			Halmahera, Indonesia (h = 35 km).				micr sec
"	27	UPP iPKP2 KIR iPKP1 UME iPKP1	22 50 47.6 22 50 14.2 22 50 21.3			Mx KIR iP	Z 2.6 11 23 31 03.0 C
			South Island, New Zealand (h = 90 km).				micr sec
						Mx	Z 4.9 12
"	28	UPP iPKP iPKP1	09 46 48.0 09 46 51.8			UME iP	23 31 11.4 C
			micr sec				Taiwan (h = 15 km). M = 5.9 (UPP,KIR).
			P Z' 0.2 0.9	"	29	UPP iP	08 43 01.5
		KIR iPKP1	09 46 28.5				micr sec
		UME iPKP1	09 46 40.0			P	Z' 0.6 1.5
			Kermadec Islands, New Zealand (h = 25 km).			Mx	Z 1.1 16
"	28	UPP Mx	10 48			KIR iP	08 42 11.6
			micr sec				micr sec
			Mx Z 1.0 24			P	Z' 0.2 1.3
			Kermadec Islands, New Zealand (h = 25 km).			Mx	Z 0.8 15
"	28	UPP iP KIR iP UME iP	14 18 37.9 14 18 31.9 14 18 31.1			UME iP	08 42 34.3 D
			Myanmar (h = 90 km).				East of Kuril Islands (h = 45 km). m = 6.3, M = 5.0 (UPP,KIR).
"	28	UPP iP KIR iP UME iP	18 10 03.1 18 09 24.2 18 09 41.1 C	"	29	UPP iP UME iP	10 24 01.2 10 24 16.1
			Near east coast of Honshu, Japan (h = 70 km).				Southern Iran (h = N).
				"	29	UPP iP KIR iP UME iP	12 51 00.5 12 50 31.8 12 50 42.8
							Ryukyu Islands (h = 100 km).
				"	29	UPP iP KIR iP	21 41 21.9 21 41 16.8

(cont).

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1992				1992					
May	29	(cont).		May	30	(cont).			
		UME	iP	21 41 22.9		KIR	iP	12 53 29.5	
		Mindanao, Philippine Islands						micr sec	
		(h = 45 km).					P	Z' 0.4 1.3	
							Mx	Z 7.5 17	
"	29	UPP	iP	22 04 26.5		UME	iP	12 53 44.2	
			iS	22 14 18			i	12 53 45.1	
				micr sec		South of Honshu, Japan (h = 20 km).			
			P	Z' 0.1 1.0		m = 6.3, M = 6.0 (UPP,KIR).			
			Mx	Z 3.2 23					
		KIR	iP	22 03 50.4	"	30	UPP	iP	13 51 36.2
				micr sec			i	13 51 44.5	
			P	Z' 0.3 1.1			UME	iP	13 51 24.4
			Mx	Z 8.2 17			i	13 51 32.9	
		UME	iP	22 04 05.9		Samar, Philippine Islands			
		South of Honshu, Japan (h = 45 km).				(h = 230 km).			
		m = 6.0, M = 5.8 (UPP,KIR).							
"	30	UPP	iP	04 55 24.2	"	30	UPP	iP	16 42 46.0
							iS	16 53 12	
								micr sec	
"	30	UPP	iPKP1	06 49 16.9			Mx	Z 19 22	
		UME	iPKP1	06 49 05.4		KIR	iP	16 42 34.1	
		Kermadec Islands, New Zealand						micr sec	
		(h = N).					P	Z' 2.4 3.5	
								micr sec	
"	30	UME	iP	08 16 00.8			Mx	Z 19 20	
		Bonin Islands region (h = N).				UME	iP	16 42 42.3	
"	30	UPP	iPKP1	10 04 44.3		Near coast of Chiapas, Mexico			
			iPKP2	10 04 49.8		(h = 55 km).			
		UME	iPKP1	10 04 33.9		M = 6.4, (UPP,KIR).			
		Kermadec Islands region			"	30	UPP	iP	18 47 24.4
		(h = 470 km).							
"	30	UPP	iP	10 59 12.8					
		Fox Islands, Aleutian Islands (h = N).			"	30	UPP	iP	19 00 30.8
"	30	UPP	iP	12 29 17.8			iS	19 04 30	
		KIR	iP	12 28 56.4				micr sec	
		UME	iP	12 29 03.5			P	Z' 0.1 0.7	
		Philippine Islands region (h = 50 km).					Mx	Z 1.1 16	
"	30	UPP	iP	12 54 04.1		KIR	iP	19 01 45.0	
			i	12 54 05.2				micr sec	
			iS	13 04 00			Mx	Z 1.4 12	
				micr sec		UME	iP	19 01 08.7	
			i	Z' 0.3 1.0			i	19 01 14.3	
			Mx	Z 6.4 17		Greece (h = 30 km).			
						M = 4.5 (UPP,KIR).			

(cont).

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

1992

May	30	UPP	iP	23 46 55.3
		UME	iP	23 46 51.5
		Near coast of Chiapas, Mexico (h = 50 km).		
"	31	UPP	iP	06 32 07.7 C
			iS	06 42 02
				micr sec
		P	Z'	0.1 0.8
		Mx	Z	3.4 17
		KIR	iP	06 31 33.2 C
				micr sec
		P	Z'	0.1 1.0
		Mx	Z	3.4 17
		UME	iP	06 31 48.4 C
		South of Honshu, Japan (h = 30 km). m = 5.8, M = 5.7 (UPP,KIR).		
"	31	UPP	iP	07 56 33.8
		Hokkaido, Japan region (h = N).		

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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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1992					1992				
June	1	UPP	iPKP1	09 11 49.4	June	2	UPP	iP	11 57 17.1
				South of Fiji Islands (h = 520 km).			KIR	iP	11 56 27.6
"	1	UPP	iP	14 02 47.8			UME	iP	11 56 50.5
			iS	14 12 12					East of Kuril Islands (h = 45 km).
				micr sec	"	2	UPP	iP	11 59 50.6
		Mx	Z	1.6 20				iS	12 08 46
		KIR	iP	14 02 09.0					micr sec
				micr sec				P	Z' 0.2 1.0
		Mx	Z	2.7 18				Mx	Z 1.2 18
		UME	iP	14 02 26.0 C			KIR	iP	11 59 01.4
				Near east coast of Honshu, Japan					micr sec
				(h = 55 km).				P	Z' 0.1 1.0
				M = 5.4 (UPP,KIR).				Mx	Z 1.2 16
"	1	UPP	iP	18 41 11.7 C			UME	iP	11 59 24.1 C
			iS	18 50 59					East of Kuril Islands (h = 45 km).
				micr sec					m = 6.0, M = 5.1 (UPP,KIR).
			P	Z' 0.2 1.0	"	2	UME	iP	20 16 52.5
		KIR	iP	18 40 37.5 C					South Indian Ocean (h = 25 km).
				micr sec	"	2	UPP	iP	21 18 33.1
			P	Z' 0.2 1.0					micr sec
		UME	iP	18 40 52.1 C				Mx	Z 3.8 20
				South of Honshu, Japan			KIR	eP	21 18 38
				(h = 130 km).					micr sec
				m = 5.9 (UPP,KIR).				Mx	Z 4.6 22
"	2	UME	iP	09 51 42.4			UME	iP	21 18 34.5
				South of Honshu, Japan (h = 40 km).					South Indian Ocean (h = 15 km).
									M = 5.9 (UPP,KIR).

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

1992				1992					
June	2	UPP	iP	22 16 55.2	June	3	UPP	iP	13 35 01.1
				micr sec					Southern Xinjiang, China (h = 10 km).
			P	Z' 0.1 1.0					
		KIR	iP	22 16 57.1	"	4	UPP	iP	04 15 50.1
		UME	iP	22 16 51.9				iS	04 25 28
			i	22 17 04.5					micr sec
		Nepal - India border region (h = 55 km).						Mx	Z 15 15
"	3	UME	iP	00 23 42.4			KIR	eP	04 15 23
									micr sec
"	3	UME	iP	01 23 18.0				Mx	Z 9.2 13
		Off east coast of Honshu, Japan (h = 35 km).							Ryukyu Islands (h = 15 km). M = 6.3 (UPP,KIR).
"	3	UPP	Mx	02 44	"	4	UPP	Mx	16 53
				micr sec					micr sec
			Mx	Z 1.5 18			KIR	Mx	16 53
		KIR	Mx	02 42					micr sec
				micr sec				Mx	Z 1.1 13
			Mx	Z 0.9 13					Ryukyu Islands (h = 30 km). M = 5.4 (UPP,KIR).
		Ryukyu Islands (h = 55 km). M = 5.2 (UPP,KIR).			"	4	UPP	iPKP1	21 54 13.6
"	3	UPP	Mx	04 20					South of Fiji Islands (h = N).
				micr sec	"	5	UPP	iP	00 31 47.5
			Mx	Z 2.5 17					micr sec
		KIR	Mx	04 16				Mx	Z 1.7 18
				micr sec			KIR	iP	00 31 58.8
			Mx	Z 1.8 13					micr sec
		Ryukyu Islands (h = 50 km). M = 5.5 (UPP,KIR).						Mx	Z 2.7 12
"	3	UPP	iP	06 21 53.4					Pakistan (h = N). M = 5.2 (UPP,KIR).
			iS	06 30 52	"	5	UPP	iPKP1	10 08 34.3
				micr sec					micr sec
			P	Z' 0.3 1.1					P
			Mx	Z 4.8 17					Z' 0.1 0.8
		KIR	iP	06 21 00.1					Kermadec Islands region (h = 480 km).
				micr sec	"	5	UPP	iP	21 58 25.2
			P	Z' 0.1 1.0				i	21 58 32.7
			Mx	Z 7.6 18			KIR	iP	21 57 46.6
		UME	iP	06 21 26.1					Near coast of northern Calif. (h = 20 km).
			iP'P'	06 50 19.9	"	6	UPP	Mx	01 29
		Rat Islands, Aleutian Islands (h = 20 km). m = 6.1, M = 5.8 (UPP,KIR).							micr sec
"	3	UPP	iPKP1	11 45 31.5				Mx	Z 2.6 14
		Kermadec Islands region (h = 60 km).							

(cont).

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

1992		1992	
June	6	June	8
	(cont.)	UPP	iP 03 48 56.7
	KIR Mx 01 27	KIR	iP 03 48 02.7
			Kamchatka (h = 180 km).
	Mx Z 2.0 14		
	Ryukyu Islands (h = 20 km).	"	8 UPP
	M = 5.3 (UPP,KIR).		Mx Z 1.1 16
"	6 UPP iP 01 13 04.5	KIR	iP 09 35 41.2
	Pakistan (h = N).		i 09 35 49.8
"	6 UPP eP 16 04 19		micr sec
	KIR eP 16 04 09		P Z' 0.2 1.0
	Off coast of Central America		Mx Z 0.9 16
	(h = 90 km).		East of Severnaya Zemlya, Russia
"	6 UPP iP 18 46 50.7		(h = 30 km).
	Republic of South Africa		M = 4.5 (UPP,KIR).
	(h = 10 km).	"	9 UPP iPKP1 00 44 11.6
"	6 UPP iP 20 24 57.8		KIR iPKP 00 44 03.7
"	6 UPP iP 21 54 11.8		South of Fiji Islands (h = 80 km).
	micr sec	"	9 UPP iP 00 45 30.5
	Mx Z 3.0 20		iSKS 00 56 00
	KIR iP 21 53 57.3		iS 00 56 50
	micr sec		micr sec
	Mx Z 4.6 18		Mx Z 3.0 22
	Minahassa Peninsula (h = 20 km).		KIR iP 00 45 25.5
	M = 5.8 (UPP,KIR).		micr sec
"	6 UPP iP 23 42 57.3		Mx Z 2.9 22
	KIR iP 23 42 40.7		Jawa, Indonesia (h = 65 km).
	micr sec		M = 5.7 (UPP,KIR).
	P Z' 0.1 1.0	"	9 UPP Mx 15 45
	Talau Islands, Indonesia		micr sec
	(h = 45 km).		Mx Z 1.1 20
"	7 UPP iP 01 41 21.6	KIR	Mx 15 44
	KIR iP 01 40 28.5		micr sec
	Fox Island, Aleutian Islands (h = N).		Mx Z 1.0 17
"	7 UPP iP 01 46 04.0		Minihassa Peninsula, Sulawesi
	KIR iP 01 45 28.0		(h = 40 km).
	South of Honshu, Japan (h = 50 km).		M = 5.3 (UPP,KIR).
"	7 UPP iP 11 49 45.9	"	10 UME iSn 00 34 13.9
	Northwestern Balkan region		iSg1 00 33 34.1
	(h = 10 km).		Northwestern USSR, 65.7°N, 30.1°E.
"	7 UPP iPKP1 14 45 22.5		Origin time = 00 31 12.
	South of Fiji Islands (h = 65 km).		By combination with Finnish station
"	7 UPP iPKP1 14 45 22.5		readings.
	South of Fiji Islands (h = 65 km).	"	10 UPP iP 01 34 55.1
			(cont.)

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

1992				1992					
June	10	(cont.) KIR	iP	01 34 01.0 C	June	12	KIR	iPg1	04 49 12.2
				micr sec				i	04 49 28.2
			P	Z' 0.1 0.8				iSg1	04 49 40.3
		Fox Islands, Aleutian Islands (h = N).					UME	iSg1	04 50 53.5
							MYV	iSg1	04 51 05.0
"	10	UPP	iP	02 27 16.0			Northern Norway, 67.7°N, 15.1°E.		
			iPP	02 31 02.0			Origin time = 04 48 36.		
				micr sec			M _L (UPP) = 2.9 (0.24) 2.		
			Mx	Z 4.6 19			By combination with Finnish station readings.		
		KIR	eP	02 27 01					
			iPP	02 30 41.2	"	12	UPP	iP	07 38 16.7
				micr sec			KIR	iP	07 37 28.4
			Mx	Z 6.4 19			UME	iP	07 37 50.5
		Minahassa Peninsula (h = 30 km). M = 6.0 (UPP,KIR).					Kuril Islands (h = 30 km).		
"	10	UPP	iPKP	13 04 06.7	"	12	UPP	iP	11 19 52.2
			i	13 04 08.2				P	Z' 0.1 0.8
		KIR	iPKP	13 04 22.8			KIR	iP	11 19 36.1 D
		South Sandwich Islands region (h = N).							micr sec
								P	Z' 0.2 1.2
"	10	UPP	iP	13 51 48.5			UME	iP	11 19 40.9 D
		KIR	iP	13 51 38.8			Talaud Islands (h = 80 km). m = 6.4 (UPP,KIR).		
		Myanmar (h = N).			"	12	UME	iP	16 27 27.1
"	11	UPP	iP	02 17 05.1			South of Honshu, Japan (h = N).		
				micr sec	"	12	UPP	iP	18 23 44.5
			Mx	Z 0.8 20			KIR	iP	18 23 43.7 C
		KIR	iP	02 16 50.7					micr sec
				micr sec				P	Z' 0.1 0.9
			Mx	Z 1.0 21			UME	iP	18 23 41.6 C
		UME	iP	02 16 55.3			Southern Sumatera, Indonesia (h = 40 km).		
		Minahassa Peninsula (h = 30 km). M = 5.2 (UPP,KIR).			"	12	UPP	iP	19 22 20.1
"	11	UPP	iP	18 41 33.7				iS	19 26 54
				micr sec					micr sec
			P	Z' 0.1 1.0				P	Z' 0.1 0.8
		KIR	iP	18 40 58.4				Mx	Z 0.8 20
				micr sec			KIR	iP	19 23 31.2
			Mx	Z 0.1 1.0					micr sec
		UME	iP	18 41 13.9				P	Z' 0.2 1.0
		South of Honshu, Japan (h = 50 km). m = 5.7 (UPP,KIR).					UME	iP	19 22 57.6
"	12	UME	iPKP	00 24 25.5			Tunisia (h = 10 km). m = 5.7 (UPP,KIR).		
		South Sandwich Islands region (h = N).							

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

1992				1992			
June	13	UPP iP UME iP Bonin Islands region (h = 390 km).	06 11 21.0 06 11 02.8 D	June	14	UPP iPKP1 South of Fiji Islands (h = N).	05 12 10.2
"	13	UPP iP KIR eP Northern Sumatera, Indonesia (h = 80 km).	14 18 57.4 14 18 42	"	14	UPP iP KIR iP UME iP Off w. coast of northern Sumatera (h = 35 km).	10 53 55.2 10 53 57.2 10 53 52.9
"	13	UPP iP iS KIR iP UME iP South of Honshu, Japan (h = 55 km).	15 30 26.9 15 40 12 15 29 50.4 15 30 06.0 C	"	14	UPP iP Mx KIR iP Mx UME iP South of Honshu, Japan (h = 45 km). M = 5.0 (UPP,KIR).	13 02 26.3 micr sec Z 0.7 17 13 01 29.1 micr sec Z 0.8 15 13 02 05.3 C
"	13	UPP iP Mx KIR iP Nepal (h = 35 km).	15 49 20.9 micr sec Z 1.6 15 15 49 21.8	"	14	UPP iPKP1 South of Fiji Islands (h = 45 km).	17 26 28.6
"	13	UPP eP Mx KIR iP UME iP Southern Xinjiang, China (h = 35 km).	17 02 58 micr sec Z 0.6 9 17 02 53.3 17 02 49.0	"	14	UPP iP P KIR iP UME iP Mindoro, Philippine Islands (h = 110 km).	17 32 11.4 C micr sec Z' 0.1 0.7 17 31 53.9 17 31 59.3
"	13	UPP iP KIR eP UME iP Turkey (h = N).	20 13 43.6 20 14 35 20 14 06.1	"	15	UPP iP KIR iP UME iP Near s. coast of Honshu, Japan (h = 25 km).	01 58 13.1 01 57 36.3 01 57 52.2
"	14	UPP iP KIR iP UME iP Sunda Strait (h = 55 km).	01 34 24.4 01 34 20.1 01 34 14.1	"	15	UPP iP iS P Mx KIR iP P Mx UME iP Myanmar (h = 15 km). m = 6.5, M = 6.5 (UPP,KIR).	02 59 28.1 03 07 00 micr sec Z' 0.3 1.0 Z 36 17 02 59 19.7 micr sec Z' 1.0 1.9 Z 27 14 02 59 19.1
"	14	UPP iPKP1 South of Fiji Islands (h = N).	04 03 01.7	"	15	UPP iPKP1 South of Fiji Islands (h = N).	05 26 51.5
"	14	UPP iPKP1 South of Fiji Islands (h = N).	04 04 07.3				
"	14	UPP iP South of Fiji Islands (h = 100 km).	04 12 46.3				
"	14	UPP iPKP1 South of Fiji Islands (h = 100 km).	04 36 02.6				

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

1992				1992			
June	15	UPP iP	11 28 34.7	June	19	UPP iP	09 13 50.1
		Kuril Islands (h = N).				KIR iP	09 12 57.1
"	15	UPP iP	12 18 57.5			UME iP	09 13 21.8
			micr sec			Near east coast of Kamchatka	
		P	Z' 0.2 0.9			(h = 55 km).	
		KIR iP	12 18 09.0 D	"	19	UPP iP	14 16 27.1
			micr sec			i	14 16 32.5
		P	Z' 0.2 1.0			KIR iP	14 16 34.2
		UME iP	12 18 31.3 D			Afghanistan - Tajikistan bord. reg.	
		Sea of Okhotsk (h = 520 km).				(h = 130 km).	
		m = 5.5 (UPP,KIR).		"	19	UPP iP	20 47 33.8
"	15	UPP iP	20 52 31.0			Luzon, Philippine Islands (h = N).	
		KIR iP	20 52 17.4 C	"	20	UPP iPKP1	15 46 28.7
			micr sec			South of Fiji Islands (h = 520 km).	
		P	Z' 0.2 1.0	"	20	UPP iP	19 25 16.6
		UME iP	20 52 21.8 C			KIR iP	19 26 27.1
		Minahassa Peninsula, Sulawesi				Central Mediterranean Sea	
		(h = 130 km).				(h = 50 km).	
"	16	UPP iP	06 01 12.3	"	20	UPP iSg1	21 41 19.0
		i	06 01 13.9			KIR iPg1	21 37 49.4
		iS	06 09 28			iSg1	21 38 17.5
			micr sec			UME iPn	21 38 21.5
		i	Z' 0.2 0.9			iSg1	21 39 30.9
		UME iP	06 00 47.7			UDD iSg1	21 41 13.0
		Hokkaido, Japan region (h = 320 km).				MYV iPn	21 38 35.0
		m = 5.8 (UPP,KIR).				iSg1	21 39 41.0
"	17	UPP iP	00 18 01.0			Northern Norway, 67.8°N, 15.2°E.	
		KIR iP	00 17 14.1			Origin time = 21 37 13.	
		UME iP	00 17 34.8			$M_L(UPP) = 3.2 (0.26) 2.$	
		Kuril Islands (h = 50 km).				By combination with Finnish and	
"	17	UPP Mx	09 50			Norwegian station readings.	
			micr sec	"	20	UPP iSn	23 04 56.4
		Mx	Z 1.4 20			iSg1	23 05 36.5
		South Shethland Islands (h = 10 km).				KIR iPg1	23 02 05.4 C
"	17	KIR iSg1	18 44 53.4			iSg1	23 02 33.7
		Coast of northwestern Norway				UME iPn	23 02 37.5
		68.4°N, 13.1°E.				iSn	23 03 29.0
		Origin time = 18 43 38				iSg1	23 03 47.4
		Solution from Bergen regional				UDD iPn	23 03 19.1
		bulletin.				iSn	23 04 50.4
"	18	UME iP	21 52 54.6			iSg1	23 05 28.2
		Near east coast of Honshu, Japan				DEL iSg1	23 07 23.4
		(h = 40 km).					

(cont).

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

1992				1992			
June	20	(cont.)		June	22	UPP iP	15 30 51.0
		MYV iPn	23 02 41.0			UME iP	15 30 35.0
		iSg1	23 03 58.0			Mariana Islands region (h = 70 km).	
		Northern Norway, 67.8°N, 15.2°E.			"	23	UPP Mx
		Origin time = 23 01 30.					12 33
		$M_L(\text{UPP}) = 3.5 (0.46) 4.$					micr sec
		By combination with Finnish and Norwegian station readings.					Mx Z 0.9 21
							Southern Pacific Ocean (h = 10 km).
"	21	UME iP	07 40 11.4	"	23	UPP iPKP1	22 05 50.6
		Fox Islands, Aleutian Islands				South of Fiji Islands (h = 650 km).	
		(h = 40 km).			"	23	UPP i(P)
"	21	UPP iP	11 29 02.7		"	24	KIR iPg1
		Qinghai, China (h = 20 km).					09 14 18.1
							iSg1
"	21	UPP iPKP2	18 03 21.7				09 14 46.0
			micr sec				09 14 48.4
		Mx Z	6.8 20				Norrbottn, Sweden, 65.9°N, 21.6°E.
		KIR iPKP	18 02 49.2				Origin time = 09 13 41.
		iPKP1	18 02 54.3				$M_L(\text{UPP}) = 2.3 (0.23) 2.$
			micr sec				By combination with Finnish station readings.
		Mx Z	5.2 21		"	24	UPP iP
		UME iPKP1	18 02 57.9				12 22 26.6
		North Island, New Zealand					micr sec
		(h = 10 km).					Mx Z 2.1 25
		M = 6.3 (UPP,KIR).					KIR iP
							12 21 33.2
"	21	UPP iP	19 03 44.1				UME iP
		i	19 03 51.7				12 21 49.7
			micr sec				Andreanof Islands, Aleutian Is.
		P Z'	0.3 0.7				(h = N).
		KIR iP	19 05 00.1	"	24	UME iP	12 40 15.8
		UME iP	19 04 30.6			Southern Sumatera, Indonesia	
		Greece - Albania border region				(h = 45 km).	
		(h = 35 km).			"	25	UME iP
							04 48 24.5
"	22	UPP iPKP	04 19 39.2				Andreanof Islands, Aleutian Is.
			micr sec				(h = N).
		Mx Z	3.3 24	"	25	UPP iPKP1	06 50 29.6
		KIR iPKP	04 19 54.6				micr sec
		UME iPKP	04 19 46.5				P Z' 1.0 0.9
		Southwestern Atlantic Ocean					Mx Z 11 20
		(h = 10 km).					UME iPKP1
							06 50 18.2
"	22	UPP iP	15 09 17.1				Kermadec Islands region (h = 20 km).
		UME iP	15 08 56.9	"	25	UPP iP	09 49 37.9
		South of Honshu, Japan (h = 40 km).				Southern Xinjiang, China (h = N).	

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

1992				1992			
June	25	UDD iSg1	20 37 05.8	June	27	UPP iP	13 29 51.9
		Southern Norway, 62.3°N, 7.4°E.				KIR iP	13 29 51.1
		Origin time = 20 35 06.				UME iP	13 29 45.6
		$M_L(\text{UPP}) = 2.3$ 1.				i	13 29 49.8
		Solution from Bergen regional bulletin.				Southern Xinjiang, China (h = N).	
"	26	UPP iPKP1	02 28 11.7	"	27	UPP iP	14 28 18.4 D
		UME i(PKP)	02 28 04.6			KIR iP	14 28 12.3 D
		iPKP	02 28 11.4				micr sec
		South of Fiji Islands (h = 600 km).				P	Z' 0.1 1.0
"	26	UPP iP	03 38 42.4	"	28	UPP iP	06 20 25.7
			micr sec			KIR iP	06 19 30.7
		P	Z' 0.1 1.0			UME iP	06 19 56.1
		UME iP	03 38 30.9			Near east coast of Kamchatka (h = N).	
		South of Kermadec Islands (h = N).		"	28	UPP iPKP1	07 02 55.9
"	26	UME iP	07 39 24.8			Kermadec Islands region	
"	26	UPP iP	11 45 25.5			(h = 430 km).	
		iSKS	11 55 52	"	28	UPP iP	12 09 39.7
		iS	11 56 16			i	12 09 42.5
			micr sec			iS	12 19 38
		Mx	Z 1.8 22				micr sec
		KIR iP	11 45 52.6			i	Z' 0.4 1.2
			micr sec			Mx	Z 692 22
		P	Z' 0.7 2.3			KIR	micr sec
		UME iP	11 45 26.8			Mx	Z 547 17
		i	11 45 29.4			UME iP	12 09 26.0
		South of Panama (h = 10 km).				i	12 09 28.0
"	27	UPP iP	00 48 17.4			Southern California (h = 1 km).	
		UME iP	00 47 56.0			M = 7.9 (UPP,KIR).	
		Off east coast of Honshu, Japan		"	28	UPP iSg1	12 26 52.1
		(h = 40 km).				UME iSg1	12 27 17.5
"	27	UPP iP	01 29 03.9			UDD iSg1	12 25 51.8
		UME iP	01 28 40.1			MYV iPg1	12 24 51.2
		Northwest Territories, Canada				iSg1	12 25 51.0
		(h = 20 km).				Coast of southwestern Norway,	
"	27	UPP iP	02 21 51.4			61.9°N, 4.8°E.	
			micr sec			Origin time = 12 23 33.	
		Mx	Z 1.6 20			$M_L(\text{UPP}) = 2.9$ (0.22) 2.	
		KIR iP	02 21 48.3			Felt.	
		UME iP	02 21 44.8			By combination with Finnish and	
		Southern Xinjiang, China (h = N).				Norwegian station readings.	
"	28	UPP iP	12 52 58.2	"	28	UPP iP	12 52 58.2
		Southern Xinjiang, China (h = N).				Southern California (h = 5 km).	

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

1992						1992				
June	28	UPP	iP	14 55 26.4		June	29	(cont).		
		UME	iP	14 54 12.6				KIR		micr sec
		Southern California (h = 5 km).						Mx	Z	1.7 17
"	28	UPP	iP	15 17 35.3				UME	iP	16 15 10.4 D
			i	15 17 37.7				Bonin Islands region (h = 560 km).		
								M = 5.4 (UPP,KIR).		
								M uncorrected for focal depth.		
			i	Z' 0.5 1.2						
		UME	iP	15 17 21.9		"	30	UPP	iSg1	15 06 17.6
			i	15 17 26.8				UME	iSg1	15 07 15.3
		Southern California (h = 5 km).						UDD	iPg1	15 05 02.7
"	28	UPP	iP	21 09 43.1					iSg1	15 05 20.0
		UME	iP	21 09 15.9				DEL	iSg1	15 06 57.9
		Andreanof Islands, Aleutian Is. (h = N).						MYV	iPn	15 05 21.0
"	28	UPP	iP	23 37 54.7					iPg1	15 05 24.0
									iSg1	15 05 56.0
			P	Z' 0.1 1.0				Southeastern Norway, 60.9°N, 11.4°E.		
		UME	iP	23 37 27.0				Origin time = 15 04 37.		
		Near Islands, Aleutian Islands (h = 40 km).						M _L (UPP) = 2.8 (0.27) 3.		
"	29	UPP	iP	07 49 03.6				By combination with Finnish and Norwegian station readings.		
		UME	iP	07 48 42.9		"	30	UPP	iP	19 34 12.3
		South of Honshu, Japan (h = 40 km).						UME	iP	19 33 51.8
"	29	UPP	iP	10 26 13.2				South of Honshu Japan (h = 130 km).		
			P	Z' 0.2 1.0						
			Mx	Z 1.6 20						
		KIR								
			Mx	Z 3.8 15						
		UME	iP	10 25 58.4						
		California - Nevada border region (h = 10 km).								
		M = 5.5 (UPP,KIR).								
"	29	UPP	iP	13 40 06.8						
"	29	UPP	iP	14 25 46.1						
		UME	iP	14 25 31.3						
		Southern California (h = 10 km).								
"	29	UPP	iP	16 15 28.3 D						
			P	Z' 0.2 1.0						
			Mx	Z 2.4 20						
		November 4, 1993								
		Conny Holmqvist								
		Klaus Meyer								

(cont).

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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

JULY 1 - 31, 1992

1992				1992			
July	1	UPP iP	07 52 34.4	July	4	UPP iP	03 35 59.9
		UME iP	07 52 19.9				micr sec
		Southern California (h = 10 km).				P	Z' 0.1 1.0
"	1	UPP iPKP1	14 32 29.7			UME iP	03 35 30.2
		South of Fiji Islands (h = 170 km).				Near east coast of Kamchatka (h = 30 km).	
"	1	UME iP	17 14 42.1	"	5	UPP iP	21 30 30.8
		Banda Sea (h = 140 km).					micr sec
"	1	UPP ePKP2	20 23 16			Mx	Z 1.7 18
		UME iPKP2	20 23 02.8			KIR	micr sec
		South of Kermadec Islands (h = N).				Mx	Z 1.4 15
"	2	UPP eP	04 31 44			UME iP	21 30 17.7
		UME iP	04 31 24.2			Southern California (h = 0 km). M = 5.3 (UPP,KIR).	
		South of Honshu, Japan (h = 40 km).		"	6	UPP iP	09 40 26.5
"	2	UPP iP	06 33 29.6			UME iP	09 39 15.0
		i	06 33 35.6			Andaman Islands, India (h = 45 km).	
		UME iPKP	06 33 18.8	"	6	UPP iP	10 38 51.0
		South of Kermadec Islands (h = 10 km).					micr sec
"	2	UPP iP	22 20 38.3			Mx	Z 0.9 17
		Myanmar - India border region (h = 160 km).				KIR	micr sec
						Mx	Z 0.7 14
						Crete (h = 20 km). M = 4.4 (UPP,KIR).	
"	3	UPP iP	12 29 58.6	"	6	UPP iP	12 35 15.9
		Andreanof Islands, Aleutian Islands (h = N).				UME iP	12 35 11.1
						ipP	12 35 18.5
						Andaman Islands, India (h = 25 km).	

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

1992				1992			
July	6	UPP iP	16 42 58.4	July	9	(cont).	
		UME iP	16 42 51.5			UPP	micr sec
		Myanmar (h = N).				P	Z' 0.2 1.1
"	6	UPP iSg1	23 20 41.3			UME iP	21 44 24.3
		UDD iSg1	23 19 47.7			ipP	21 44 33.3
		DEL iSg1	23 21 21.2			Bangladesh.	
		Off coast of western Norway,				h = 30 km (UPP,KIR).	
		62.9°N, 6.3°E.		"	10	UPP iP	09 42 29.7
		Origin time = 23 17 31.				eS	09 51 25
		$M_L(UPP) = 2.5$ 1.				iP'P'	10 10 43
		Solution from Norwegian station					micr sec
		readings.				P	Z' 0.4 1.1
"	7	UPP iP	12 53 51.8			Mx	Z 26 17
		Central Mediterranean Sea				KIR	micr sec
		(h = 10 km).				Mx	Z 19 18
"	8	UPP iP	10 20 26.5			UME iP	09 42 03.2
		ipP	10 20 38.5			Kuril Islands (h = 20 km).	
			micr sec			m = 6.3, M = 6.4 (UPP,KIR).	
		P	Z' 0.1 1.0	"	10	UPP iP	14 08 32.2
		UME iP	10 20 18.8			UME iP	14 08 07.0
		ipP	10 20 30.6			Kuril Islands (h = 50 km).	
		Myanmar.		"	11	UME iP	17 04 07.5
		h = 40 km (UPP,UME).				South of Honshu, Japan (h = 35 km).	
"	8	UPP iP	16 15 49.2	"	11	UPP iPKP	11 02 56 D
			micr sec			ipPKP	11 04 46
		P	Z' 0.2 0.9			iSKP1	11 06 06
		UME iP	16 15 22.9			i	11 08 24
		Andreanof Islands, Aleutian Is.				iSKKP	11 14 32.0
		(h = N).					micr sec
"	9	UPP iP	01 56 05.1			P	Z' 0.3 0.8
			micr sec			Mx	Z 7.3 24
		P	Z' 0.1 1.3			KIR	micr sec
		Mx	Z 1.5 16			Mx	Z 4.2 21
		KIR	micr sec			UME i(PKP)	11 02 44.0
		Mx	Z 1.9 15			South of Fiji Islands (h = 380 km).	
		UME iP	01 55 51.0			M = 6.2 (UPP,KIR).	
		Southern California (h = 0 km).				M uncorrected for focal depth.	
		M = 5.4 (UPP,KIR).		"	11	UPP iP	13 06 14.8
"	9	UPP iP	19 59 24.0			i	13 06 30.9
		Romania (h = N).				UME iP	13 06 10.3
"	9	UPP iP	21 44 30.3			Southern Sumatera, Indonesia	
		ipP	21 44 39.9			(h = 55 km).	
		(cont).		"	11	UPP iSg1	14 36 04.5
						UME iSg1	14 36 31.8
						(cont).	

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

1992				1992			
July	11	(cont).		July	12	(cont).	
		UDD	iPn 14 33 44.8			UPP	micr sec
			iPg1 14 34 01.5			P	Z' 0.1 0.8
			iSg1 14 35 04.0			Mx	Z 2.0 17
		DEL	iSg1 14 36 22.6			KIR	micr sec
		MYV	iSg1 14 34 59.0			Mx	Z 2.8 20
		Off coast of southwestern Norway, 62.2°N, 4.0°E.				UME	iP 13 24 47.5
		Origin time = 14 32 31.				Kuril Islands (h = 55 km).	
		M _L (UPP) = 3.0 1.				M = 5.4 (UPP,KIR).	
		Solution from Bergen regional bulletin.		"	12	UPP	eP 13 32 30
						UME	eP 13 32 03
						Kuril Islands (h = 50 km).	
"	11	UPP	eP 16 19 49	"	12	UPP	iP 16 15 48.4
		South Mid-Atlantic Ridge (h = 10 km).		"	12	UPP	iP 20 26 46.1
"	11	UPP	iP 18 26 18.1			Rumania (h = 45 km).	
			micr sec				
		Mx	Z 0.9 17	"	12	UPP	iP 23 53 15.9
		UME	iP 18 26 00.9				iS 24 02 50
		Central California (h = 10 km).				UME	iP 23 53 05.9
						Celebes Sea (h = 620 km).	
"	11	UPP	iPKP1 21 21 44.7	"	13	UPP	iP 10 55 44.8
		South of Fiji Islands (h = 570 km).				Myanmar (h = N).	
"	12	UPP	iPKP1 01 36 32.9	"	13	UPP	iP 11 07 56.1
		Kermadec Islands region (h = 80 km).				Northeast of Taiwan (h = 200 km).	
"	12	UPP	eP 03 30 13	"	13	UPP	iP 14 30 06.0
"	12	UPP	iP 10 18 14.4			KIR	iP 14 29 22.8
		UME	iP 10 17 46.7			UME	iP 14 29 41.7
		Kuril Islands (h = 50 km).				Hokkaido, Japan region (h = 70 km).	
"	12	UPP	iP 11 19 56.1	"	13	UPP	iP 15 44 39.3
		i	11 19 56.6				iS 15 33 12
		iS	11 28 56				micr sec
			micr sec			Mx	Z 9.2 23
		P	Z' 0.3 1.1			KIR	eP 15 43 47
		Mx	Z 20 19				micr sec
		KIR	micr sec			Mx	Z 5.3 18
		Mx	Z 6.4 16			UME	eP 15 44 11
		UME	iP 11 19 29.3			Near east coast of Kamchatka (h = 45 km).	
		Hokkaido, Japan region (h = 60 km).				M = 5.7 (UPP,KIR).	
		m = 6.1, M = 6.1 (UPP,KIR).		"	13	UPP	iP 16 13 26.0
"	12	UPP	eP 13 25 14			UME	iP 16 13 26.1

(cont).

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

1992				1992					
July	13	UPP	iP	18 24 49.0 D	July	14	KIR iP	16 53 57.9	
			ipP	18 25 18			Kuril Islands (h = 45 km).		
			iSKS	18 35 12		"	14	KIR iP	18 52 41.1
				micr sec				Turkey (h = 10 km).	
			P	Z' 0.1 1.0		"	15	KIR iP	09 33 04.9
		KIR	iP	18 24 51.9				UME iP	09 33 32.2
			ipP	18 25 21.9				Fox Islands, Aleutian Islands (h = N).	
				micr sec		"	15	UPP iP	18 18 10.7
			P	Z' 0.1 1.0				KIR iP	18 17 59.8
			Mx	Z 2.4 20				UME iP	18 18 00.9
		UME	iP	18 24 52.9 D				Flores region, Indonesia (h = 130 km).	
			ipP	18 25 23.6		"	15	UPP iP	18 22 24.3
		Northern Peru.				"	16	UPP iP	00 12 00
		h = 120 km (UPP,KIR,UME).						iS	00 21 17
		m = 6.2, M = 5.5 (UPP,KIR).							micr sec
		M uncorrected for focal depth.						P	Z' 0.3 1.5
"	13	UPP	iP	19 54 21.4				Mx	Z 9.8 15
"	14	UPP	iP	04 31 55.6			KIR	iP	00 11 18.0
		KIR	iP	04 32 43.3					micr sec
		Turkey (h = 20 km).						P	Z' 0.2 1.5
"	14	KIR	iP	07 16 03.3				Mx	Z 14 15
		UME	iP	07 16 06.9			UME	iP	00 11 35.8
		Banda Sea (h = 470 km).						Off east coast of Honshu, Japan	
"	14	UPP	eP	07 55 36				(h = 30 km).	
		KIR	iP	07 55 36.6				m = 6.1, M = 6.2 (UPP,KIR).	
		UME	iP	07 55 34.1		"	17	UPP iP	04 22 39.2
		South Sumatera, Indonesia						KIR iP	04 21 51.7
		(h = 55 km).						UME iP	04 22 12.8
"	14	KIR	iP	13 27 23.0				East of Kuril Islands (h = 45 km).	
		Northern Sumatera, Indonesia				"	17	UPP iP	04 30 31.6 C
		(h = N).							micr sec
"	14	UPP	iP	15 28 08.0				Mx	Z 3.4 18
				micr sec			KIR	iP	04 29 43.8
			P	Z' 0.1 0.8					micr sec
			Mx	Z 2.4 20				Mx	Z 3.1 16
		KIR	iP	15 27 20.6			UME	iP	04 30 05.3
				micr sec				East of Kuril Islands (h = 20 km).	
			P	Z' 0.1 1.0				M = 5.5 (UPP,KIR).	
			Mx	Z 1.6 15		"	17	UPP iP	06 53 05.9
		UME	iP	15 27 41.6				KIR iP	06 53 09.9
		Kuril Islands (h = 45 km).						UME iP	06 53 01.6
		m = 5.8, M = 5.3 (UPP,KIR).						Northwestern Kashmir (h = 30 km).	

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

1992				1992					
July	17	UPP	iP	08 49 16.9	July	18	(cont).		
		KIR	iP	08 49 20.7			KIR	iP	08 47 36.0 C
		UME	iP	08 49 13.3					micr sec
				Eastern Kashmir (h = N).			P	Z'	0.4 1.1
"	17	UPP	iP	11 12 49.7			Mx	Z	174 14
				micr sec			UME	iP	08 47 54.3
			P	Z' 0.1 1.0			Off east coast of Honshu, Japan (h = 30 km).		
		UME	iP	11 12 17.8			m = 6.6, M = 7.4 (UPP,KIR).		
				Eastern Siberia, Russia (h = 25 km).	"	18	UPP	iP	08 50 22.7
"	17	UPP	iP	11 49 56.5					micr sec
				Eastern Siberia, Russia (h = N).			P	Z'	1.3 1.5
"	17	UPP	iP	11 57 26.1			KIR	iP	08 49 40.6
				Eastern Siberia, Russia (h = N).					micr sec
"	17	UPP	iP	17 18 52.1			P	Z'	0.5 1.0
		KIR	eP	17 17 58			Off east coast of Honshu, Japan (h = 35 km).		
				Andreanof Islands, Aleutian Islands (h = N).			m = 6.8 (UPP,KIR).		
"	17	UPP	Mx	19 43	"	18	UPP	iP	09 21 15.1
				micr sec			Off east coast of Honshu, Japan (h = N).		
			Mx	Z 2.1 22	"	18	UPP	iP	09 56 22.4
				Near coast of Peru (h = 45 km).			KIR	eP	09 55 41
"	18	UPP	iP	08 26 34.8			Off east coast of Honshu, Japan (h = 35 km).		
		KIR	iP	08 25 53.3	"	18	UPP	iP	10 31 30.6 C
		UME	iP	08 26 11.6					micr sec
				Off east coast of Honshu, Japan (h = 20 km).			P	Z'	0.8 1.5
"	18	UPP	iP	08 31 20.2 C			KIR	iP	10 30 48.8 C
				micr sec					micr sec
			P	Z' 0.1 1.0			P	Z'	0.7 1.5
		KIR	iP	08 30 37.7			UME	iP	10 31 07.0 C
				micr sec			Off east coast of Honshu, Japan (h = 25 km).		
			P	Z' 0.1 1.0			m = 6.6 (UPP,KIR).		
		UME	iP	08 30 56.1	"	18	UPP	iP	11 10 59.1
				Off east coast of Honshu, Japan (h = 20 km).					micr sec
				m = 6.0 (UPP,KIR).			P	Z'	0.2 1.0
"	18	UPP	iP	08 48 18.0 C			UME	iP	11 10 34.9
			iS	08 57 35			ipP		11 10 42.3
				micr sec			Off east coast of Honshu, Japan (h = 25 km).		
			P	Z' 0.6 1.3	"	18	UPP	iP	11 21 31.8
		Mx	Z	192 16			(cont).		
				(cont).			(cont).		

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

1992				1992			
July	18	(cont).		July	18	(cont).	
		UME	iP 11 21 06.8			UPP	micr sec
		Off east coast of Honshu, Japan (h = 30 km).				P	Z' 0.1 1.0
						Mx	Z 11 18
"	18	UPP	iP 11 22 30.7			KIR	iP 14 07 30.4 C
		UME	iP 11 22 06.9				micr sec
		Off east coast of Honshu, Japan (h = 30 km).				P	Z' 0.2 0.8
						Mx	Z 13 13
"	18	UME	iP 11 57 10.7			UME	iP 14 07 48.3
		Off east coast of Honshu, Japan (h = 30 km).				Near east coast of Honshu, Japan (h = 25 km). m = 6.1, M = 6.2 (UPP,KIR).	
"	18	UPP	iP 11 59 40.7 C	"	18	UPP	iP 14 57 05.1
			micr sec			i	14 57 19.9
		P	Z' 0.1 1.2			KIR	iP 14 56 23.3
		KIR	iP 11 58 58.7			UME	iP 14 56 41.3
			micr sec			Off east coast of Honshu, Japan (h = 25 km).	
		P	Z' 0.1 1.0				
		UME	iP 11 59 17.1	"	18	UPP	iP 17 38 29.8
		Off east coast of Honshu, Japan (h = 30 km). m = 5.9 (UPP,KIR).				i	17 38 40.8
							micr sec
"	18	UPP	iP 12 14 01.8			P	Z' 0.1 1.0
			micr sec			KIR	iP 17 37 46.7
		P	Z' 0.2 1.5				micr sec
		KIR	iP 12 13 19.3			P	Z' 0.1 1.0
			micr sec			UME	iP 17 38 04.9
		P	Z' 0.1 1.5			Off east coast of Honshu, Japan (h = 30 km). m = 6.0 (UPP,KIR).	
		UME	iP 12 13 37.7	"	18	UPP	iP 18 23 33.4
		Off east coast of Honshu, Japan (h = 25 km). m = 5.9 (UPP,KIR).				i	18 23 42.4
							micr sec
"	18	KIR	iPg1 13 51 48.7			P	Z' 0.1 1.0
			i 13 51 53.4			Mx	Z 2.3 19
			iSg1 13 52 14.7			KIR	iP 18 22 51.1 C
			i 13 52 20.0				micr sec
		UME	iSg1 13 53 50.2			P	Z' 0.1 1.0
		Northern Finland, 68.4°N, 25.5°E. Origin time = 13 51 12. M _L (UPP) = 2.9 (0.17) 2. Felt. By combination with Finnish station readings.				Mx	Z 3.7 16
						UME	iP 18 23 10.0
						Off east coast of Honshu, Japan (h = 30 km). m = 6.0, M = 5.5 (UPP,KIR).	
"	18	UPP	iP 14 08 13.7 C	"	18	KIR	eP 19 21 28
			iS 14 17 29			UME	iP 19 21 46.2
		(cont).				Off east coast of Honshu, Japan (h = 30 km).	

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

1992				1992			
July	21	UPP iP	00 11 47.1	July	24	UPP iP	02 29 46.3
		KIR iP	00 11 05.5			Afghanistan - Tajikistan border region (h = 80 km).	
		UME iP	00 11 23.2				
		Off east coast of Honshu, Japan (h = 25 km).		"	24	UPP eP	06 33 58
"	21	UPP iP	00 50 46.1			Xijang (h = N).	
		KIR iP	00 50 04.0	"	24	UPP iP	12 02 07.1
		UME iP	00 50 22.3				micr sec
		Off east coast of Honshu, Japan (h = N).				Mx	Z 1.4 21
"	21	UME iP	03 08 05.1	KIR eP			12 02 10
		Mariana Islands region (h = 35 km).					micr sec
"	21	KIR eP	15 44 08			Mx	Z 2.1 16
		UME iP	15 44 16.8	UME iP			12 01 28.5
		Caribbean Sea (h = 10 km).				Off east coast of Honshu, Japan (h = 35 km).	
"	21	UPP iP	16 36 26.9			M = 5.3 (UPP,KIR).	
		Kuril Islands (h = 45 km).		"	25	UPP iP	03 04 52.1 C
"	21	KIR iP	20 32 21.7			iS	03 14 13
		UME iP	20 32 38.0				micr sec
		Eastern Honshu, Japan (h = 260 km).				P	Z' 0.3 1.0
"	23	UPP iPKP2	10 31 10.7			Mx	Z 7.4 19
		KIR iPKP1	10 31 04.3	KIR iP			03 04 10.7 C
		UME iPKP1	10 31 02.0				micr sec
		West of Macquarie Island (h = 10 km).				P	Z' 0.3 1.1
"	23	UPP iP	20 17 17.3			Mx	Z 7.9 15
		i	20 17 24.1	UME iP			03 04 28.7
		iS	20 21 06			Off east coast of Honshu, Japan (h = 15 km).	
			micr sec			m = 6.4, M = 6.0 (UPP,KIR).	
		Mx	Z 6.9 13	"	25	UPP iP	09 23 19.4
		KIR eP	20 18 35			KIR iP	09 23 57.6
		UME iP	20 17 59.7			UME iP	09 22 41.8
		Aegean Sea (h = 5 km).				Central Mid-Atlantic Ridge (h = 10 km).	
"	23	UPP iP	21 58 29.3 D	"	27	UPP eP	04 32 26
			micr sec			KIR iP	04 31 40.6
		P	Z' 0.2 1.0			UME iP	04 32 04.9
		KIR iP	21 57 34.5			Vancouver Island region (h = 10 km).	
		UME iP	21 58 00.1	"	27	KIR iPg1	12 10 52.9
		Near east coast of Kamchatka (h = 110 km).				iSg1	12 11 19.8
						UME eSg1	12 13 16
						MYV iSg1	12 13 33.0

(cont).

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

1992				1992			
July	27	(cont). Northern Norway, 69.4°N, 17.2°E. Origin time = 12 10 16. $M_L(\text{UPP}) = 2.6$ 1. By combination with Finnish station readings.		July	29	KIR eP UME iP South of Honshu, Japan (h = 35 km).	10 03 10 10 03 26.9
"	27	UPP iP KIR iP UME iP Near east coast of Kamchatka (h = 110 km).	19 44 33.7 19 43 41.7 19 44 04.4	"	29	UPP iP KIR iP UME iP Off east coast of Honshu, Japan (h = 30 km).	23 46 51.7 23 46 09.6 23 46 28.3
"	28	KIR iPKP UME iPKP Off E. coast of N. Island, N.Z. (h = 120 km).	02 12 33.2 02 12 41.8	"	30	UPP iP iPP iPP iS P Mx KIR iP P Mx UME iP Xijiang (h = 15 km). m = 6.5, M = 6.1 (UPP,KIR).	08 34 27.6 08 36 36 08 38 00 08 42 21 micr sec Z' 0.5 1.0 Z 12 13 08 34 21.3 micr sec Z' 0.6 1.2 Z 12 12 08 34 16.0
"	28	KIR iP UME iP Banda Sea (h = 300 km).	17 43 31.1 17 43 35.4	"	31	UPP iP UPP eP KIR eP UME eP Philippine Islands region (h = 50 km).	11 57 03.2 14 15 51 14 15 34 14 15 29
"	29	UPP iP P Mx KIR iP P Mx UME iP Off east coast of Honshu, Japan (h = 25 km). m = 6.2, M = 5.5 (UPP,KIR).	02 38 33.2 micr sec Z' 0.2 1.1 Z 3.0 17 02 37 51.7 micr sec Z' 0.2 1.2 Z 2.7 15 02 38 08.1	"	31	KIR iPKP UME iPKP1 North Island, New Zealand (h = 40 km).	14 30 59.9 14 31 13.8
"	29	UPP iP iPP iPPP iS P Mx KIR iP P Mx UME iP Off east coast of Honshu, Japan (h = 15 km). m = 6.4, M = 6.4 (UPP,KIR).	04 42 09.0 04 44 40 04 46 31 04 51 24 micr sec Z' 0.3 1.0 Z 16 16 04 41 25.6 micr sec Z' 0.4 1.5 Z 28 16 04 41 42.6				

February 15, 1994

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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

AUGUST 1 - 31, 1992

1992					1992				
Aug.	1	UPP	iPKP1	06 24 50.0	Aug.	2	UPP	iPdiff	12 16 27.6 D
				Fiji Islands region (h = 630 km).					micr sec
"	1	UPP	iP	13 14 57.6				P	Z' 0.2 1.0
		UME	iP	13 14 39.0		KIR	iPdiff		Z 2.5 23
				Bonin Islands region (h = 430 km).					12 16 15.6 D
"	1	UPP	iP	13 55 48.9				P	Z' 0.4 1.0
		UME	iP	13 55 21.7				Mx	Z 2.1 17
				Alaska Peninsula (h = 55 km).		UME	iPdiff		12 16 18.7 D
"	1	UPP	iPKP1	18 37 13.3					Flores Sea (h = 490 km).
		UME	iPKP	18 37 01.4					m = 6.7, M = 5.6 (UPP,KIR).
			iSKP1	18 39 47.9					M uncorrected for focal depth.
				Fiji Islands region (h = 630 km).	"	3	UPP	iP	03 05 05.1 D
"	2	UPP	Mx	01 31			KIR	iP	03 05 13.6 D
				micr sec					micr sec
			Mx	Z 0.9 23				P	Z' 0.1 1.0
		KIR	Mx	01 33			UME	iP	03 05 12.1 D
				micr sec					Leeward Islands (h = 45 km).
			Mx	Z 0.6 16	"	3	UME	iPKP1	04 18 23.9
				Guatemala (h = 50 km).					Kermadec Islands, New Zealand
				M = 5.1 (UPP,KIR).					(h = N).
"	2	UPP	iP	06 04 10.8	"	3	UPP	iSg1	11 19 29.2
				micr sec			KIR	iPg1	11 16 56.7
			Mx	Z 5.7 22				iSn	11 17 33.4
		KIR		micr sec				iSg1	11 17 40.0
			Mx	Z 4.0 16			UME	iPn	11 17 00.3
		UME	iP	06 03 52.1				iPg1	11 17 10.3
				Halmahera, Indonesia (h = 20 km).				iSn	11 17 48.0
				M = 6.0 (UPP,KIR).				iSg1	11 18 02.4

(cont.)

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

1992				1992			
Aug.	3	(cont.) MYV iPn iSg1 Coast of western Norway, 66.4°N, 13.2°E. Origin time = 11 15 58 $M_L(\text{UPP}) = 3.4 (0.12)$ 3. Felt. By combination with Finnish and Norwegian station readings.	11 16 53.6 11 17 46.4	Aug.	5	UME iP Southern Sumatera, Indonesia (h = 80 km).	19 45 48.2
"	3	UPP Mx micr sec Mx Z 0.8 20 Santa Cruz Islands region (h = 25 km).	12 33	"	6	UPP iSn iSg1 UME iSn iSg1 DEL iPn iSn iSg1 MYV iPn iPg1 iSg1 Southern Norway, 59.9°N, 6.2°E. Origin time = 07 32 42. $M_L(\text{UPP}) = 3.7 (0.26)$ 3. Felt. By combination with Finnish and Norwegian station readings.	07 35 12.8 07 35 38.3 07 36 05.0 07 36 39.8 07 34 00.1 07 35 00.1 07 35 25.4 07 33 59.0 07 34 10.0 07 35 16.0
"	3	UPP iP KIR eP UME eP Philippine Islands region (h = 20 km).	12 28 02.7 12 27 37 12 27 47	"	6	UPP iP micr sec Mx Z 2.7 18 KIR micr sec Mx Z 1.2 16 UME iP Taiwan region (h = 20 km). M = 5.4 (UPP,KIR).	21 41 09.5
"	4	UPP iPKP1 UME iPKP iSKP1 Fiji Islands region (h = 250 km).	07 17 23.9 07 17 23.5 07 20 34.3	"	7	UPP iPKP1 UME iPKP1 South of Kermadec Islands (h = 15 km).	10 22 10.7 10 21 57.3
"	4	UPP iPKP ipPKP micr sec Mx Z 6.5 27 KIR iPKP ipPKP micr sec Mx Z 2.1 21 UME iPKP ipPKP Santa Cruz Islands. h = 100 km (UPP,KIR,UME). M = 5.9 (UPP,KIR). M uncorrected for focal depth.	21 27 36.6 21 28 03.6 micr sec Z 6.5 27 21 27 22.7 21 27 48.9 micr sec Z 2.1 21 21 27 28.1 21 27 54.0	"	7	UPP iP iS micr sec P Z' 0.2 0.9 UME iP Western Honshu, Japan (h = 360 km).	11 22 26.7 C 11 31 14
"	5	UPP iP KIR iP UME iP Southern Sumatera, Indonesia (h = 35 km).	02 22 50.6 02 22 50.2 02 22 47.0	"	7	UPP iP KIR eP Xijang (h = N).	13 21 36.7 13 21 18
"	5	UME iP Off east coast of Honshu, Japan (h = 25 km).	11 54 55.0	"	7	UPP iP iS iP'P' (cont).	18 29 39.8 18 38 02 18 58 49.0

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

1992				1992			
Aug.		(cont).		Aug.		(cont).	
	7	UPP	micr sec		9	UME iP	20 02 51.8 D
		P	Z' 1.2 1.4			Talaud Islands, Indonesia (h = 70 km).	
		Mx	Z 37 24			m = 6.5, M = 5.7 (UPP,KIR).	
		KIR iP	18 28 46.4			M uncorrected for focal depth.	
			micr sec				
		P	Z' 2.7 2.0	"	9	UPP iP	21 05 39.6
		Mx	Z 16 15			Andreanof Islands, Aleutian Is.	
		UME iP	18 29 13.3			(h = N).	
			Gulf of Alaska (h = 15 km).				
			m = 6.9, M = 6.3 (UPP,KIR).	"	9	UPP iP	22 44 17.0
						Xijang (h = 35 km).	
"	7	UPP iP	23 35 14.0	"	10	UPP Mx	07 12
		UME iP	23 34 55.6				micr sec
			Ryukyu Islands (h = 35 km).			Mx	Z 1.0 15
"	8	UPP iPKP1	01 27 07.8 D			KIR Mx	07 04
			micr sec				micr sec
		P	Z' 0.2 1.0			Mx	Z 1.1 15
		KIR iPKP1	01 26 46.6			UME iP	06 21 57.8
		UME iPKP1	01 26 57.1 D				Near coast of Nicaragua (h = N).
			Kermadec Islands region				M = 5.3, (UPP,KIR).
			(h = 390 km).	"	10	UPP iP	13 50 05.4 C
"	8	UPP iP	03 03 13.3			i	13 50 31.7
		KIR iP	03 02 55.0				micr sec
		UME iP	03 03 02.3			P	Z' 0.1 0.8
			Philippine Islands region (h = 50 km).			KIR iP	13 50 16.8 D
"	8	UPP iP	15 03 20.6 C				micr sec
			micr sec			P	Z' 0.1 1.0
		P	Z' 0.1 1.2			UME iP	13 50 05.5 C
		KIR iP	15 02 37.2				Hindu Kush region (h = 110 km).
		UME iP	15 02 56.3 C				m = 5.5 (UPP,KIR).
			Hokkaido, Japan region (h = 55 km).	"	10	UPP iP	19 55 27.0
"	9	UPP iP	03 16 20.0	"	11	UPP iP	01 56 32.2
			Chagos Archipelago region			KIR iP	01 56 01.7
			(h = 10 km).			UME iP	01 56 14.5
"	9	UPP iP	20 03 02.2 D				Volcano Islands region (h = 190 km).
		eS	20 13 33	"	11	UPP iP	04 08 30.5
			micr sec			iS	04 12 25
		P	Z' 0.1 0.8			KIR iP	04 07 01.6
		Mx	Z 3.6 26				micr sec
		KIR iP	20 02 46.0 D			P	Z' 0.4 1.4
			micr sec			UME iP	04 07 48.9
		P	Z' 0.3 1.0				North of Svalbard (h = 20 km).
		Mx	Z 3.5 24				

(cont).

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

1992				1992			
Aug.	11	UPP	iP	09 44 22.0 D	Aug.	12	(cont).
			iS	09 52 35			KIR iP 06 47 27.0
				micr sec			micr sec
			P	Z' 0.2 1.0			P Z' 0.2 1.4
		KIR	iP	09 43 40.8 D			Mx Z 2.8 16
				micr sec			UME iP 06 47 43.3
			P	Z' 0.2 0.8			South of Honshu, Japan (h = N).
		UME	iP	09 43 58.5 D			m = 5.8, M = 5.6 (UPP,KIR).
				Near southeast coast of Russia		"	13 UPP iP 13 42 50.5
				(h = 360 km).			UME iP 13 42 48.8
				m = 5.6 (UPP,KIR).			Hindu Kush region (h = 80 km).
"	11	UPP	iP	15 26 47.9	"	13	UPP iPKP1 15 59 53.4
			iS	15 36 35			South of Fiji Islands (h = 380 km).
			i	15 36 59			
				micr sec			
			P	Z' 0.1 0.9		"	13 UPP Mx 21 45
			Mx	Z 18 16			micr sec
		KIR	iP	15 26 12.1			Mx Z 5.1 30
				micr sec			KIR micr sec
			P	Z' 0.2 1.3			Mx Z 3.9 25
				micr sec			New Britain region, P.N.G.
			Mx	Z 26 15			(h = 45 km).
		UME	iP	15 26 27.4			M = 5.9 (UPP,KIR).
				South of Honshu, Japan (h = 15 km).		"	14 UPP iP 01 55 01.4
				m = 5.9, M = 6.5 (UPP,KIR).			UME iP 01 54 41.6
"	11	KIR	ePn	20 44 17			South of Honshu, Japan (h = 40 km).
			iPg1	20 44 19.9		"	14 KIR iPn 04 58 08.7
			iSn	20 44 53.0			eSn 04 58 51
			iSg1	20 45 05.2			UME iPn 04 58 41.6
		UME	iPg1	20 43 33.3 C			iSn 04 59 39.9
			iSg1	20 43 43.2			MYV iPn 04 58 41.2
		UDD	iSg1	20 46 12.8			iSn 04 59 37.0
		MYV	iPg1	20 44 20.0			Northwestern Norway,
			i	20 44 39.0			68.2°N, 12.6°E.
			iSg1	20 45 06.0			Origin time = 04 57 23.
				Västerbotten, Sweden,			By combination with Finnish and
				64.5°N, 21.0°E.		"	14 UPP iP 17 38 11.2
				Origin time = 20 43 19.			Taiwan (h = 15 km).
				M _L (UPP) = 2.6 (0.00) 2.		"	15 UME iP 18 21 28.5
				Felt.			Off east coast of Honshu, Japan
				By combination with Finnish station			(h = 25 km).
				readings.		"	15 UPP iP 19 14 42.6 D
"	12	UPP	eP	06 48 03			i 19 15 28.2
			iS	06 57 47			(cont).
				micr sec			
			P	Z' 0.1 1.2			
			Mx	Z 3.2 17			
				(cont).			

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

1992				1992			
Aug.				Aug.			
15	(cont.)			19	UPP	iP	01 08 49.3 D
	UPP	iS	19 25 12			i	01 09 01.4
			micr sec			iS	01 17 52
		P	Z' 0.2 0.8			iP'P'	01 36 52.3
	UME	iP	19 14 47.1				micr sec
	Colombia (h = 120 km).					P	Z' 0.8 1.0
"	15	UPP	iP 21 42 55.5			Mx	Z 8.3 24
	Mariana Islands (h = 190 km).				KIR		micr sec
"	16	UPP	iP 02 40 36.6			P	Z' 0.5 1.6
	Kyushu, Japan (h = 70 km).					Mx	Z 3.3 20
"	16	UPP	Mx 11 31		UME	iP	01 08 22.9 D
			micr sec			iP'P'	01 36 59.4
		Mx	Z 0.8 19		Andreanof Islands, Aleutian Is. (h = 10 km).		
	KIR		micr sec		m = 6.6, M = 5.6 (UPP,KIR).		
		Mx	Z 1.1 18	"	19	UPP	iP 02 11 54.9
	Eastern New Guinea reg., P.N.G (h = 220 km).					iS	02 17 42
	M = 5.3 (UPP,KIR).						micr sec
	M uncorrected for focal depth.					P	Z' 5.6 1.2
"	16	UPP	iP 15 01 23.0 C			Mx	Z 275 13
		i	15 01 38.5		KIR		micr sec
			micr sec			Mx	Z 275 11
		P	Z' 0.2 1.0		UME	iP	02 10 48.1
	UME	iP	15 01 25.3 C		Kyrgyzstan (h = 25 km).		
	South Indian Ocean (h = N).				M = 7.2 (UPP,KIR).		
"	16	UPP	iP 20 26 22.9	"	19	UPP	iP 02 42 16.2
	UME	iP	20 26 14.1				micr sec
	Xijang (h = N).					P	Z' 0.1 1.0
"	16	UPP	iP 00 12 21.4		Kyrgyzstan (h = N).		
		iS	00 15 02.8	"	19	UPP	iP 03 19 22.6 C
	UME	iP	00 13 02.9				micr sec
	Romania (h = 110 km).					P	Z' 0.5 1.0
"	17	UME	iP 15 38 01.4 C			UME	iP 03 19 16.1 C
	South of Honshu, Japan (h = 35 km).				Kyrgyzstan (h = 20 km).		
"	18	UPP	iPKP1 20 20 21.1	"	19	UPP	iP 03 27 49.3
		i	20 21 13.2				micr sec
			micr sec			P	Z' 1.5 1.0
		P	Z' 0.2 0.9			Kyrgyzstan (h = 20 km).	
	UME	iPKP1	20 20 08.6	"	19	UPP	iP 03 49 51.4
	Kermadec Islands region (h = 200 km).				Kyrgyzstan (h = 20 km).		
"	18	UPP	i(P) 23 39 05.6	"	19	UPP	iP 04 13 40.6
						UME	iP 04 13 33.8
					Kyrgyzstan (h = 20 km).		

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

1992				1992						
Aug.	19	UPP	iP	06 17 39.2	Aug.	21	UPP	iP	04 21 50.5	
			iS	06 28 08			UME	iP	04 21 43.2	
		UME	eP	06 17 28			Kyrgyzstan (h = N).			
		Luzon, Philippine Islands (h = 25 km).				"	21	UPP	iP	09 20 32.2
								Greece (h = 5 km).		
"	19	UPP	iP	10 24 51.5	"	21	UPP	iP	11 21 23.3	
		UME	iP	10 24 44.9			Xijang (h = N).			
		Kyrgyzstan (h = 25 km).								
"	19	UPP	Mx	15 42	"	21	UPP	iP	19 16 16.6	
				micr sec			UME	iP	19 16 31.1	
			Mx	Z 0.3 8			Northwestern Caucasus (h = 35 km).			
		KIR		micr sec						
			Mx	Z 0.4 8	"	22	UPP	iP	12 30 14.2	
		UME	iP	14 24 51.4			UME	iP	12 30 12.2	
		Kyrgyzstan (h = N).					Off east coast of United States (h = 10 km).			
"	19	UPP	iP	22 53 09.2	"	22	UPP	iP	17 39 53.4	
				micr sec			Afghanistan (h = N).			
			Mx	Z 0.3 8	"	23	UPP	iP	04 37 08.4	
		KIR		micr sec			UME	iP	04 36 45.3	
			Mx	Z 0.4 8			Off east coast of Honshu, Japan (h = 25 km).			
		UME	iP	22 53 02.4						
		Kyrgyzstan (h = 20 km).			"	23	UPP	iP	07 22 25.5	
"	20	UPP	iP	01 35 20.8			Kyrgyzstan (h = N).			
		Kyrgyzstan (h = N).			"	23	UPP	iP	09 11 51.5	
"	20	UPP	iP	02 54 12.8			UME	iP	09 11 44.6	
			i	02 54 17.2			Kyrgyzstan (h = 20 km).			
		UME	iP	02 54 05.4						
		Kyrgyzstan (h = 15 km).			"	23	UME	iPKP1	20 13 22.7	
"	20	UPP	iP	12 30 06.1			South of Kermadec Islands (h = 410 km).			
		UME	iP	12 29 59.1						
		Kyrgyzstan (h = 20 km).			"	23	UME	iP	20 42 18.5	
"	20	UPP		micr sec			Kyrgyzstan (h = N).			
			Mx	Z 0.5 13	"	24	UPP	iP	03 16 27.9	
		KIR		micr sec			Southwestern Ryukyu Islands (h = 25 km).			
			Mx	Z 0.6 16						
		UME	iP	18 43 39.9						
		Volcano Islands region (h = N). M = 5.0 (UPP,KIR).			"	24	UPP	iP	07 10 28.0 D	
"	21	UPP	iP	01 13 53.2				iS	07 19 16	
				micr sec					micr sec	
			P	Z' 0.2 1.6				P	Z' 0.9 1.0	
		UME	iP	01 13 26.8				Mx	Z 2.2 20	
		Off coast of Oregon (h = 20 km).					(cont).			

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

1992				1992						
Aug.	24	(cont). KIR		Aug.	26	UPP	iP	15 12 23.0		
			micr sec				i	15 12 31.7		
		Mx	Z 2.4 16			UME	iP	15 13 02.4		
		UME	iP 07 10 04.3 D			Greece - Albania border region (h = 55 km).				
		Hokkaido, Japan region (h = 120 km).				"	26	UPP	iP	18 46 06.1
		M = 5.4 (UPP,KIR).						i	18 46 13.9	
		M uncorrected for focal depth.				UME	iP	18 46 48.2 C		
"	24	UPP	Mx 10 19				i	18 46 56.6		
			micr sec			Northwestern Balkan region (h = 35 km).				
		Mx	Z 0.7 13			"	26	UPP	iP	22 08 33.1
		Xijiang (h = 60 km).				UME	iP	22 08 26.5		
"	24	UPP	iPKP 19 59 14.3			Kyrgyzstan (h = N).				
			micr sec			"	27	UPP	iP	04 21 13.7
		Mx	Z 1.9 20			UME	iP	04 20 51.9		
		UME	iPKP 19 59 22.4			Eastern Honshu, Japan (h = 60 km).				
		South Sandwich Islands region (h = 110 km).				"	27	UPP	iP	06 15 15.7
"	24	UPP	i(P) 20 38 14.2			UME	iP	06 14 56.0		
"	25	UPP	iP 01 37 58.4			South of Honshu, Japan (h = N).				
		UME	iP 01 37 31.3			"	27	UPP	iPKP1	07 09 46.2
		Kuril Islands (h = 60 km).				UME	iPKP1	07 09 35.9		
"	25	UPP	Mx 03 24			South of Kermadec Islands (h = 160 km).				
			micr sec			"	27	UPP	iP	08 53 37.1
		Mx	Z 1.4 20				iS	08 56 58.0		
		Solomon Islands (h = 25 km).					Mx	Z 1.2 13		
"	25	UME	iPKP 08 43 32.4			KIR		micr sec		
		Tonga Islands (h = 70 km).				Mx	Z 1.6 11			
"	26	UME	iPn 03 51 49.8			UME	iP	08 54 01.9		
		iPg1	03 51 57.8			Northwestern Caucasus (h = 20 km).				
		iSn	03 52 34.5			M = 4.5 (UPP,KIR).				
		iSg1	03 52 50.4			"	27	UME	iP	12 39 52.0
		MYV	iSg1 03 52 42.0			Near east coast of Honshu, Japan (h = 50 km).				
		Coast of northwestern Norway, 66.9°N, 13.3°E.				"	28	UPP	iP	00 59 07.2
		Origin time = 03 50 45.					i	00 59 09.3		
		M _L (UPP) = 2.8 1.					iS	01 05 44		
		Solution from Norwegian station readings.						micr sec		
"	26	UPP	iP 07 47 54.4				i	Z' 0.2 1.0		
		UME	iP 07 47 47.7 C			Mx	Z 6.7 13			
		Kyrgyzstan (h = N).				(cont).				

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

1992						1992					
Aug.	28	(cont.)				Aug.	29	(cont.)			
		KIR		micr	sec			UPP		micr sec	
		Mx	Z	7.3	16			P	Z'	1.8 1.1	
		UME	iP	00 59	11.2			Mx	Z	3.7 14	
		Pakistan (h = 10 km).						KIR		micr sec	
		M = 5.7 (UPP,KIR).						P	Z'	2.8 16	
"	28	UPP	iPKP1	17 33	21.2			UME	iP	19 29 56.9 D	
		South of Fiji Islands (h = 600 km).						ipP		19 31 07.2	
"	28	UPP	iP	18 29	28.2			Near s. coast of Honshu, Japan.			
		i		18 29	29.8			h = 300 km (UPP,UME).			
		i		18 37	24			M = 5.7 (UPP,KIR).			
		iS		18 38	13			M uncorrected for focal depth.			
				micr	sec	"	30	UME	iP	07 36 51.3	
		i	Z'	0.4	1.2	"	30	UME	iP	20 10 40.3	
		Mx	Z	150	23	"	30	UPP	iPKP1	20 27 11.6	
		KIR		micr	sec			iSKP		20 30 06	
		Mx	Z	99	17			UME	i(PKP)	20 27 00.5	
		UME	iP	18 29	53.9			iPKP		20 27 15.5	
		North of Ascension Island						iSKP1		20 29 53.6	
		(h = 15 km).						Fiji Islands region (h = 570 km).			
		M = 7.1 (UPP,KIR).									
"	28	UPP	iSn	18 40	22.5	"	30	UME	iP	21 53 45.3	
		iSg1		18 40	42.1			Bonin Islands region (h = N).			
		UME	iSg1	18 41	50.4	"	31	UPP	iP	07 35 09.7	
		UDD	iPg1	18 38	55.3			KIR		micr sec	
			iSn	18 39	21.7			Mx	Z	1.8 12	
			iSg1	18 39	42.9			UME	iP	07 34 49.6 C	
		MYV	iPn	18 39	05.6			Mongolia (h = 35 km).			
			iSg1	18 40	23.0						
		Southern Norway, 59.8°N, 6.7°E.						"	31	UPP	eP
		Origin time = 18 37 51.								16 31 31	
		M _L (UPP) = 2.9 (0.12) 2.								16 31 11.3	
		Felt.								Bonin Islands region (h = 25 km).	
		By combination with Finnish and Norwegian station readings.						"	31	UPP	iSn
"	29	UPP	iP	13 21	03.5			UDD	iSn	18 28 52.7	
				micr	sec			North Sea, 55.1°N, 3.9°E.			
		P	Z'	0.1	1.2			Origin time = 18 25 53.			
		Komandorsky Islands region						Solution from Norwegian station readings.			
		(h = 35 km).									
"	29	UPP	iP	15 19	32.7						
		Komandorsky Islands region									
		(h = 30 km).									
"	29	UPP	iP	19 30	16.7 D						
		ipP		19 31	28.0						
		iS		19 39	27						
		i		19 39	52						
		isS		19 41	32						

December 7, 1993

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Klaus Meyer

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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

SEPTEMBER 1 - 30, 1992

1992 Sep.	1	UPP	iP	16 52 58.0 C	1992 Sep.	2	UME	iP	01 28 59.5	
			iS	17 02 37					Near east coast of Honshu, Japan (h = 80 km).	
				micr sec						
			P	Z' 0.4 1.1		"	2	UPP	iP	06 02 30.3
			Mx	Z 5.9 19					iSKS	06 12 58
		KIR		micr sec						micr sec
			Mx	Z 2.6 19					P	Z' 0.1 0.8
		UME	iP	16 52 42.5					Mx	Z 1.9 20
				Taiwan (h = 55 km).			KIR			micr sec
				M = 5.7 (UPP,KIR).				Mx	Z 2.2 14	
"	2	UPP	iP	00 28 54.5			UME	iP	06 02 24.0 D	
			iPP	00 32 21				ipP	06 04 40.7	
			iS	00 39 16					Jawa, Indonesia (h = 630 km).	
				micr sec					M = 5.6 (UPP,KIR).	
			Mx	Z 81 19					M uncorrected for focal depth.	
		KIR		micr sec		"	2	UME	iP	10 37 07.1
			Mx	Z 71 18					South of Mariana Islands (h = 35 km).	
		UME	iP	00 28 42.0		"	2	UPP	iP	10 38 03.5 D
				Near coast of Nicaragua (h = 45 km).					i	10 38 08.7
				M = 7.1 (UPP,KIR).						micr sec
"	2	UME	iP	00 41 07.1					P	Z' 0.3 1.0
				Off coast of Costa Rica (h = 10 km).					P	Z' 1.1 1.8
"	2	UME	iP	00 43 46.6					Mx	Z 2.9 21
				Near coast of Nicaragua (h = 10 km).			KIR			micr sec
"	2	UME	iP	01 26 55.1				Mx	Z 1.5 16	
				Off coast of Costa Rica (h = 10 km).			UME	iP	10 37 49.7 D	
									Utah (h = 15 km).	
									M = 5.4 (UPP,KIR).	

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

1992				1992			
Sep.				Sep.			
9	(cont).	UME iSKP1	21 05 51.3	11	(cont).	UPP	micr sec
		South of Fiji Islands (h = 550 km).				P	Z' 3.4 2.0
"	9	UPP iP	21 48 58.4			Mx	Z 15 22
		KIR iP	21 49 37.6			KIR iP	04 09 02.6 D
		UME iP	21 49 14.5				micr sec
		Southern Iran (h = 40 km).				P	Z' 3.4 1.9
"	10	UPP	micr sec			Mx	Z 8.4 18
		Mx	Z 2.4 20			UME iP	04 08 38.5 D
		KIR	micr sec			iP'P'	04 36 38.2
		Mx	Z 2.4 20			Zaire (h = 10 km).	
		UME iPKP	11 02 43.0			m = 7.1, M = 6.1 (UPP,KIR).	
		Tonga Islands region (h = 40 km).		"	11	UPP iP	12 13 13.6
		M = 5.9 (UPP,KIR).					micr sec
"	10	UPP iP	14 58 29.9			Mx	Z 0.7 14
		KIR iP	14 56 50.0			KIR iP	12 13 52.9
			micr sec			UME iP	12 13 28.3
		P	Z' 0.4 1.0			Southern Iran (h = 15 km).	
		UME iP	14 57 41.7 C	"	11	UPP iP	17 11 47.1
		i	14 57 44.0			KIR iP	17 12 13.5
		Svalbard region (h = 30 km).				UME iP	17 11 54.5
"	10	UPP	micr sec			Southern Iran (h = 10 km).	
		Mx	Z 4.4 28	"	11	UPP iP	17 25 59.6
		KIR iP	15 16 01.9			Central Mediterranean Sea	
			micr sec			(h = 10 km).	
		Mx	Z 1.5 18	"	11	UPP iSg1	17 35 33.9
		UME iP	15 16 07.7			UDD iPg1	17 34 45.2
		Off coast of Costa Rica (h = 25 km).				iSg1	17 35 01.2
		M = 5.5 (UPP,KIR).				MYV iSg1	17 36 31.0
"	10	UPP iP	16 07 18.7			Lake Vänern, Sweden,	
						59.0°N, 13.7°E.	
"	10	UPP iSKP1	20 33 38.6			Origin time = 17 34 27.	
		KIR iPKP	20 29 56.5			M _L (UPP) = 2.1 (0.19) 3.	
		UME iPKP	20 30 03.2			By combination with Finnish station	
		Vanuatu Islands (h = 20 km).				readings.	
"	11	UME iPKP	01 19 10.8	"	11	UPP iP	17 47 22.5 D
		iSKP1	01 21 52.9			KIR iP	17 47 31.3
		South of Fiji Islands (h = 610 km).				UME iP	17 47 20.8 D
"	11	UPP iP	04 08 14.8 D			Pakistan (h = 70 km).	
		ipP	04 08 22.9	"	11	UPP iP	18 11 00.5 C
		iS	04 17 00.0				micr sec
		(cont).				P	Z' 0.1 0.8
						KIR iP	18 11 09.0 C
						(cont).	

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

1992				1992			
Sep.				Sep.			
11	(cont).			12	UPP	iPKP1	19 59 25.6
	KIR		micr sec				South of Fiji Islands (h = 500 km).
		Mx	Z 0.2 0.5				
	UME	iP	18 10 58.3 C	"	14	UPP	iPKP1 00 25 30.8
			Hindu Kush region, Afghanistan				Kermadec Islands region
			(h = 210 km).				(h = 150 km).
			m = 5.6 (UPP,KIR).				
"	11	UPP	iP 18 31 58.1	"	14	UME	iP 02 57 56.3
		KIR	iP 18 32 25.4				Near east coast of Honshu, Japan
		UME	iP 08 32 06.5				(h = N).
			Northern Iran (h = N).				
"	11	UPP	iP 22 38 13.4		14	UPP	eP 13 28 19
		KIR	iP 22 37 57.2				micr sec
		UME	iP 22 38 02.7				Mx Z 1.1 12
			Talaud Islands, Indonesia			KIR	iP 13 28 03.8
			(h = 45 km).				micr sec
							Mx Z 1.0 12
"	12	UPP	iP 02 42 37.0			UME	iP 13 28 11.0
		KIR	iP 02 43 03.1				Taiwan region (h = 15 km).
		UME	iP 02 42 44.3				M = 5.3 (UPP,KIR).
			Southern Iran (h = 25 km).	"	14	UPP	i 17 28 50.7
"	12	UME	iPg1 04 17 42.1			KIR	iP 17 27 14.8
			iSg1 04 17 44.6			UME	iP 17 28 03.2
			Gulf of Bothnia, 63.7°N, 21.1 °E.				North of Svalbard (h = 10 km).
			Origin time = 04 17 35.	"	14	UPP	iP 20 43 57.3
			M _L (UPP) = 1.9 1.				ipP 20 44 08.6
			By combination with Finnish station				iS 20 52 30
			readings.				micr sec
"	12	UPP	iP 12 57 44.7				P Z' 0.2 1.1
			Southwestern Ryukyu Islands				Mx Z 0.9 14
			(h = 25 km).			KIR	iP 20 43 03.4
							ipP 20 43 13.3
"	12	UPP	iP 15 09 57.6				micr sec
			micr sec				P Z' 0.2 1.1
							Mx Z 0.9 14
						UME	iP 20 43 28.8
							ipP 20 43 39.3
							Komandorsky Islands region.
							h = 40 km (UPP,KIR,UME).
							m = 6.1 (UPP,KIR).
"	12	UPP	iP 15 09 30.7 C	"	15	UPP	iP 00 04 56.6
			Alaska Peninsula (h = 55 km).				Komandorsky Islands region
			m = 5.7 (UPP,KIR).				(h = 30 km).
"	12	UPP	iP 17 20 51.7 D	"	15	UME	iP 02 32 18.4
		KIR	iP 17 21 00.6 D				Off east coast of Honshu, Japan
		UME	iP 17 20 49.7 D				(h = 25 km).
			Hindu Kush region, Afghanistan				
			(h = 200 km).				

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

1992				1992							
Sep.	15	UPP	iPKP1	02 46 15.2	Sep.	16	UPP	iP	02 37 15.7		
			iSKP1	02 49 05.1				ipP	02 37 26.9		
		UME	iPKP	02 46 13.6			KIR	iP	02 36 23.6		
			iSKP1	02 48 53.2				i	02 36 34.2		
		Fiji Islands region (h = 580 km).					UME	iP	02 36 48.2		
"	15	UPP	iP	03 04 18.1				ipP	02 36 58.8		
		Greece (h = 10 km).					Off east coast of Kamchatka. h = 40 km (UPP,KIR,UME).				
"	15	KIR	iP	08 58 48.0	"	16	UPP	iP	04 34 30.5 C		
		Southern California (h = 10 km).							micr sec		
								P	Z' 0.2 0.9		
"	15	UPP	iP	09 14 18.4			KIR	iP	04 34 30.9 C		
		KIR	iP	09 13 25.8					micr sec		
		UME	iP	09 13 50.5				P	Z' 0.2 0.9		
		Off east coast of Kamchatka (h = 35 km).					UME	iP	04 34 26.5 C		
							Andaman Islands, India (h = 150 km). m = 5.8 (UPP,KIR).				
"	15	UPP	iP	17 18 06.2	"	17	UME	iP	00 04 30.3		
		KIR	iP	17 18 01.2			Near coast of Nicaragua (h = 55 km).				
		Myanmar (h = N).									
"	15	UPP	iP	18 53 18.6	"	17	UME	iP	07 13 19.6		
				micr sec			Off coast of Oregon (h = 10 km).				
			Mx	Z 3.2 23							
		KIR	eP	18 53 12	"	17	KIR	iSg1	09 06 25.4		
				micr sec			Norrbotten, Sweden, 65.8°N, 21.9°E. Origin time = 09 05 24. Solution from Finnish station readings.				
			Mx	Z 0.9 16							
		UME	iP	18 53 19.7							
		Near coast of Nicaragua (h = 30 km). M = 5.4 (UPP,KIR).					"	17	UPP	iSg1	11 02 53.5
"	15	UPP	i(PKP)	21 22 32.5				UDD	iSg1	11 01 47.5	
			iPKP	21 22 45.9				MYV	iSg1	11 02 36.0	
			iPP	21 24 52.4			Southwestern Norway, 59.0°N, 5.5°E. Origin time = 10 59 41. M _L (UPP) = 2.7 1. By combination with Norwegian station readings.				
			iSKP	21 25 52.0							
			iPKS	21 26 06							
			iSKKP	21 35 15.7							
				micr sec			"	17	UPP	ipP	22 26 20.4
			Mx	Z 0.6 15						micr sec	
		KIR	i(PKP)	21 22 23.4				P	Z' 0.1 1.0		
			iPKP	21 22 32.4			KIR	iP	22 25 22.0 C		
			iPKKP	21 32 29.8				ipP	22 25 25.6		
		UME	i(PKP)	21 22 28.0					micr sec		
			iPKP	21 22 38.9 C				P	Z' 0.4 1.0		
		Vanuatu Islands (h = 180 km). (PKP) is an early precursor to the main PKP (DF) branch.					UME	iP	22 25 50.6		
								ipP	22 25 54.5		
							Southwestern Alaska. h = 15 km (KIR,UME).				

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1992				1992				
Sep.				Sep.				
18	UPP		micr sec	21	(cont).			
	Mx	Z	1.9 18		KIR	iP	12 27 39.4	
	KIR	iP	01 18 25.2		UME	ipP	12 27 49.2	
			micr sec				Myanmar - India border region	
	Mx	Z	0.5 14				(h = 35 km).	
			Taiwan region (h = 30 km).					
			M = 5.1 (UPP,KIR).	"	21	UPP	iP	18 40 40.0
"	18	UPP	i(P)			i	18 40 47.3	
			08 52 10.7			KIR	iP	18 41 02.7
"	18	KIR	iP			UME	iP	18 40 48.2
			11 03 41.4			i	18 40 55.6	
			South of Panama (h = 20 km).				Chagos Archipelago region	
"	19	UPP	iP				(h = 10 km).	
		KIR	iP		21	UPP	iP	20 41 38.8
		UME	iP			KIR	iP	20 40 46.0
			00 00 52.1				Andreanof Islands, Aleutian Is.	
			00 01 12.3				(h = N).	
			00 00 55.9					
			Pakistan (h = 25 km).	"	22	UPP	iP	14 12 23.9
"	19	UME	iP			i	14 12 34.1	
			08 59 42.4			KIR	iP	14 12 58.0
			Near east coast of Honshu, Japan			UME	iP	14 12 35.1
			(h = 35 km).			i	14 12 44.6	
"	20	UPP	iP				Northern Iran (h = 35 km).	
			02 02 56.6					
			Off east coast of Kamchatka (h = N).	"	23	UPP	iPKP1	00 21 39.2
"	20	UPP	iP				South of Fiji Islands (h = 610 km).	
			08 07 17.1 D					
			micr sec	"	23	UPP	iP	13 49 52.7 C
		P	Z' 0.1 1.0			P	Z' 0.4 0.9	
		KIR	iP			KIR	iP	13 49 20.9 C
		UME	iP				micr sec	
			08 07 34.2			P	Z' 0.4 1.0	
			Azores Islands region (h = 10 km).			UME	iP	13 49 32.7 C
"	20	UPP	iP				Kyushu, Japan (h = 160 km).	
			21 40 04.6				m = 6.1 (UPP,KIR).	
			Hindu Kush region, Afghanistan	"	23	UPP	iP	15 03 17.0
			(h = 140 km).			KIR	iP	15 04 04.3
"	21	UPP	iP				Zaire (h = 10 km).	
			10 30 13.3					
			10 39 37	"	23	UPP	i(P)	20 36 37.1
			micr sec					
		P	Z' 0.2 1.5	"	23	UPP	iP	22 06 29.5
		KIR	iP			KIR	iP	22 07 08.6
			10 30 56.3				Southern Iran (h = 35 km).	
			micr sec					
		P	Z' 0.4 1.5	"	23	UPP	i(P)	20 36 37.1
		UME	iP					
			10 30 36.8	"	23	UPP	iP	22 06 29.5
			Ascension Island region (h = 10 km).			KIR	iP	22 07 08.6
			m = 6.1 (UPP,KIR).					
"	21	UPP	iP					
			12 27 43.7					
			12 27 56.5					
			ipP					

(cont).

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

1992				1992			
Sep.	28	(cont). Near coast of Guatemala (h = 70 km). M = 5.9 (UPP,KIR). M uncorrected for focal depth.		Sep.	29	KIR iP 00 27 46.3 UME iP 00 27 28.2 Carlsberg Ridge (h = 10 km).	
"	28	UPP iSg1 13 33 41.3 UME iSg1 13 35 50.2 UDD iSg1 13 33 27.3 DEL i 13 31 16.5 iPg1 13 31 19.2 i 13 31 22.5 iSg1 13 31 41.9 MYV iSg1 13 35 00.6 Southwestern Baltic Sea, 55.1°N, 12.8°E. Origin time = 13 30 50. M _L (UPP) = 3.3 (0.29) 4. By combination with Danish and Finnish station readings.		"	29	UME iP 05 15 50.1 South of Honshu, Japan (h = 210 km).	
"	28	UPP iP 14 17 51.0 C Mx Z 36 16 KIR iP 14 17 26.3 C P Z' 1.0 2.5 Mx Z 8.6 16 UME iP 14 17 34.0 Taiwan region (h = 30 km). M = 6.4 (UPP,KIR).		"	29	KIR iP 15 30 02.5 UME iP 15 30 06.4 Southern Molucca Sea (h = 40 km).	
"	28	UPP iSg1 13 33 41.3 UME iSg1 13 35 50.2 UDD iSg1 13 33 27.3 DEL i 13 31 16.5 iPg1 13 31 19.2 i 13 31 22.5 iSg1 13 31 41.9 MYV iSg1 13 35 00.6 Southwestern Baltic Sea, 55.1°N, 12.8°E. Origin time = 13 30 50. M _L (UPP) = 3.3 (0.29) 4. By combination with Danish and Finnish station readings.		"	29	UME iP 19 28 16.0 Jalisco, Mexico (h = 100 km).	
"	28	UPP iP 14 17 51.0 C Mx Z 36 16 KIR iP 14 17 26.3 C P Z' 1.0 2.5 Mx Z 8.6 16 UME iP 14 17 34.0 Taiwan region (h = 30 km). M = 6.4 (UPP,KIR).		"	30	UPP iP 03 38 58.2 C iS 03 47 48 P Z' 0.3 0.9 Mx Z 3.0 22 KIR Mx Z 1.4 17 UME iP 03 38 30.8 C Andreanof Islands, Aleutian Islands (h = 25 km). M = 5.3 (UPP,KIR).	
"	28	UME iPg1 14 49 17.9 iSg1 14 49 33.3 MYV iSg1 14 50 48.4 Norrbotten, Sweden, 65.0°N, 21.3°E. Origin time = 14 48 55. M _L (UPP) = 2.3 1. By combination with Finnish station readings.		"	30	UPP iP 05 44 59.9 iS 05 54 10 iP'P' 06 13 08.6 P Z' 0.3 0.9 Mx Z 24 21 KIR iP 05 44 07.2 P Z' 0.2 1.0 Mx Z 9.5 16 UME iP 05 44 33.4 iP'P' 06 13 16.1 Andreanof Islands, Aleutian Is. (h = N). m = 6.3, M = 6.2 (UPP,KIR).	
"	29	KIR iP 00 00 37.8 UME iP 00 00 21.6 Carlsberg Ridge (h = 10 km).		"	30	UPP iP 06 14 26.0 Andreanof Islands, Aleutian Is. (h = N).	
"	29	KIR iP 00 07 05.1 Carlsberg Ridge (h = 10 km).		"	30	UPP iP 07 35 25.2 KIR iP 07 34 32.1	
"	29	KIR iP 00 09 24.9 UME iP 00 09 07.7 Carlsberg Ridge (h = 10 km).				(cont).	

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1992

Sep. 30 (cont).
 UME iP 07 34 58.2
 Andreanof Islands, Aleutian Is.
 (h = N).

" 30 UPP iP 09 53 53.4 C
 micr sec
 P Z' 0.3 1.1
 Mx Z 4.6 18
 KIR iP 09 53 00.6 C
 micr sec
 P Z' 0.1 1.0
 Mx Z 1.9 18
 UME iP 09 53 26.3 C
 Andreanof Islands, Aleutian Is.
 (h = 15 km).
 m = 6.1, M = 5.5 (UPP,KIR).

" 30 UPP iP 10 10 03.6
 micr sec
 P Z' 0.3 1.3
 KIR iP 10 09 11.1
 micr sec
 P Z' 0.1 1.0
 UME iP 10 09 36.4 C
 Andreanof Islands, Aleutian Is.
 (h = N).
 m = 5.9 (UPP,KIR).

" 30 UPP iP 10 16 25.7
 Andreanof Islands, Aleutian Is.
 (h = N).

" 30 UPP iP 16 58 02.5
 Andreanof Islands, Aleutian Is.
 (h = N).

" 30 UPP iP 22 20 00.2
 KIR iP 22 19 42.1
 UME iP 22 19 47.5
 Philippine Islands region (h = 20 km).

" 30 UPP iP 23 39 18.9
 micr sec
 P Z' 0.1 1.1
 KIR iP 23 38 25.4
 UME iP 23 38 51.1
 Andreanof Islands, Aleutian Is.
 (h = N).

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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

OCTOBER 1 - 31, 1992

1992					1992				
Oct.	1	UPP	iP	05 13 35.9 C	Oct.	2	KIR	iPKP	06 49 44.0
				micr sec					Easter Island region (h = 20 km).
			P	Z' 0.5 1.2					
		KIR	iP	05 12 42.8 C	"	2	UPP	iP	07 16 05.6
				micr sec					Andreanof Islands, Aleutian Is.
			P	Z' 0.2 1.2					(h = N).
		UME	iP	05 13 09.9					
				Andreanof Islands, Aleutian Is.	"	2	UPP	iPKP1	11 10 32.0
				(h = 15 km).			UME	iPKP	11 10 18.6
				m = 6.4, M = 5.5 (UPP,KIR).					Kermadec Islands, New Zealand
									(h = N).
"	1	KIR	iPn	06 03 08.7	"	2	UPP	iP	14 46 15.9
		UME	iPn	06 03 46.2			KIR	iP	14 46 20.1
		UDD	iPn	06 04 12.2			UME	iP	14 46 11.8
		MYV	iPn	06 03 40.0					Tajikistan - Xinjiang border reg.
			iSn	06 05 45.2					(h = 120 km).
				Norwegian Sea, 71.5°N, 4.1°W.	"	2	UPP	iP	17 39 43.1
				Origin time = 06 01 00.					Andreanof Islands, Aleutian Is.
				Solution from Norwegian station					(h = N).
				readings.					
"	1	UPP	iPKP	08 37 46.9	"	3	UPP	iP	07 53 23.8
		KIR	iPKP	08 37 54.1					micr sec
		UME	iPKP	08 37 52.1				P	Z' 0.1 1.0
				Off coast of central Chile			UME	iP	07 52 57.3
				(h = 30 km).					Rat Islands, Aleutian Islands (h = N).
"	1	UPP	iP	16 48 04.2	"	3	UPP	Mx	08 28
		KIR	eP	16 47 11					micr sec
				Andreanof Islands, Aleutian Is.				Mx	Z 2.0 15
				(h = N).					

(cont).

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

1992				1992			
Oct.	3	(cont). KIR Mx	08 24 micr sec Mx Z 1.9 15	Oct.	6	UPP Mx	Z 3.2 23
		Gulf of California (h = 10 km). M = 5.5 (UPP,KIR).				KIR iPKP	10 46 49.9
						UME iPKP	10 46 54.3
						New Britain region (h = 50 km).	
"	3	UPP iP	09 29 40.2	"	6	UPP iP	15 25 53.7
		KIR iP	09 28 45.7			Andreanof Islands, Aleutian Is. (h = N).	
		UME iP	09 29 13.8				
		Kodiak Island region (h = N).		"	6	UPP iP	17 30 08.1
"	3	UPP iP	14 08 31.0 C			KIR iP	17 29 15.6
			micr sec			Andreanof Islands, Aleutian Is. (h = N).	
		P Z' 0.1 0.8		"	6	UPP iP	19 06 07.5
		KIR iP	14 08 07.8				
		UME iP	14 08 15.9	"	7	KIR iP	15 54 15.4 C
		Taiwan region (h = 35 km).				Alaska Peninsula (h = N).	
"	3	KIR eP	22 08 39	"	7	UPP iP	16 22 38.1
		Andreanof Islands, Aleutian Is. (h = N).				i	16 22 48.2
"	4	UPP iP	15 30 49.6			Andreanof Islands, Aleutian Is. (h = N).	
		Myanmar (h = 85 km).		"	8	UPP iP	16 45 55.0
"	4	UPP iP	19 26 21.1				micr sec
		Greece-Albania border region (h = 10 km).				P Z' 0.1 1.0	
"	4	UPP iP	21 09 33.6			Andreanof Islands, Aleutian Is. (h = 20 km).	
		UME iP	21 09 08.4	"	9	UPP iP	12 27 55.1
		Kuril Islands (h = 120 km).				KIR iP	12 26 59.8
"	5	UPP iP	02 02 14.7			i	12 27 16.5
		KIR eP	02 02 46			Andreanof Islands, Aleutian Is. (h = N).	
		Northern Mid-Atlantic Ridge (h = 10 km).		"	11	KIR iP	17 10 37.7
"	5	UPP iP	19 09 52.5			Taiwan region (h = 130 km).	
		KIR iP	19 09 19.8	"	11	UPP e(PKP)	19 43 17
		UME iP	19 09 28.9			iPKP	19 43 26.0
		Rat Islands, Aleutian Islands (h = 70 km).				i	19 43 39.5
"	6	UPP eP	09 04 28			iPP	19 46 01.5
		Turkmenistan - Iran border region (h = 10 km).				i	19 46 39.3
						i	19 46 48.2
						i	19 52 43
						i	19 55 17.0

(cont).

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1992				1992			
Oct.		(cont).		Oct.		(cont).	
	11	UPP			12	UPP	
			micr sec			i	19 39 47.7
		PKP	Z' 0.1 1.0				micr sec
		i	Z' 0.3 1.3			P	Z' 0.1 1.0
		KIR	iPKP 19 43 15.6 C			KIR	eP 19 38 35
			i 19 43 24.2			UME	iP 19 37 51.8
			i 19 54 31.1			Romania (h = 100 km).	
			micr sec		"	13	UPP
		PKP	Z' 0.2 1.0				iP 06 09 15.7
		i	Z' 1.0 1.2				i 06 09 40.3
		Mx	Z 33 26			Ionian Sea (h = 40 km).	
		UME	iPKP 19 43 19.2		"	13	UPP
		Vanuatu Islands (h = 130 km).					iP 17 32 41.5
						Taiwan region (h = 10 km).	
"	11	UPP	iP 23 30 40.5		"	14	UPP
			micr sec				iP 08 07 16.7
		P	Z' 0.3 1.0			UME	iP 08 06 50.5
		KIR	iP 23 29 50.6			Kuril Islands (h = 40km).	
			micr sec		"	14	UPP
		P	Z' 0.6 1.5				iPKP1 15 50 08.1
		UME	iP 23 30 13.2			South of Fiji Islands (h = 490 km).	
		Kuril Islands (h = 280 km).			"	14	KIR
		m = 6.0 (UPP,KIR).					eP 22 50 40
						Baffin Bay (h = 10 km).	
"	12	KIR	iP 03 46 10.0		"	15	UPP
		Afghanistan - Tajikistan bord. reg.					iP 02 49 41.3
		(h = N).				KIR	i 02 49 47.3
						Kyrgyzstan (h = 15 km).	
"	12	UPP	iP 13 16 16.9		"	15	UPP
		ipP	13 16 24.4				iPKP1 05 42 48.6
		iS	13 21 24			South of Fiji Islands (h = 500 km).	
			micr sec		"	15	KIR
		P	Z' 0.1 0.8				iP 19 49 49.2
		pP	Z' 0.2 1.0			Tajikistan - Xinjiang border reg.	
		Mx	Z 3.9 17			(h = 140 km).	
		KIR	iP 13 17 18.0		"	15	UPP
		ipP	13 17 26.4				iPKP 22 56 12.0
			micr sec				i 22 56 14.5
		P	Z' 0.5 0.8				iSKP1 22 59 31.4
		pP	Z' 0.9 1.0				micr sec
		Mx	Z 3.3 15				Mx Z 47 20
		UME	iP 13 16 45.2			KIR	iPKP 22 55 58.1
		ipP	13 16 52.4				i 22 56 00.3
		Egypt.					iSKP1 22 59 13.4
		h = 30 km (UPP,KIR,UME).					micr sec
		m = 6.2, M = 5.2 (UPP,KIR).					Mx Z 20 21
						UME	iPKP 22 56 04.7
"	12	UPP	iP 19 37 09.7				iSKP1 22 59 21.6
			i 19 37 22.4			Vanuatu Islands (h = 25 km).	
						M = 6.9 (UPP,KIR).	
		(cont).					

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1992					1992				
Oct.	15	KIR	iP	23 09 27.2	Oct.	17	(cont).		
"	16	KIR	iPKP	01 27 43.5			Norwegian Sea, 62.0°N, 2.2°E.		
				micr sec			Origin time = 02 19 39.		
			P	Z' 0.1 0.1			By combination with Finnish and Norwegian station readings.		
		UME	iPKP1	01 27 56.9	"	17	UPP	micr sec	
		Off e. coast of N. Island, N.Z.					Mx	Z 5.7	23
		(h = 40 km).				KIR	iPKP	03 10	58.8
"	16	KIR	iPg1	02 48 51.7				micr sec	
			iSg1	02 49 20.0			Mx	Z 4.7	21
		UME	iSg1	02 50 31.4			Vanuatu Islands (h = 10 km).		
		MYV	iSg1	02 50 41.0			M = 6.1 (UPP,KIR).		
		Northern Norway, 67.7°N, 15.1°E.			"	17	UPP	iP	08 45 23.8
		Origin time = 02 48 15.					ipP	08 45 27.6	
		M _L (UPP) = 2.1 1.					iS	08 55 46	
		By combination with Finnish and Norwegian station readings.						micr sec	
"	16	UPP	iP	05 13 48.6			pP	Z' 0.2	1.0
		KIR	iP	05 12 57.2			Mx	Z 36	23
		Andreanof Islands, Aleutian Is.				KIR	iP	08 45 24.3	C
		(h = N).					ipP	08 45 26.9	
"	16	UPP	iPKP1	06 14 23.7				micr sec	
			iPKP2	06 14 34.7			pP	Z' 1.0	1.2
		KIR	iPKP	06 14 03.8			Mx	Z 34	24
		UME	iPKP1	06 14 14.1			UME	iP	08 45 28.5
		East of North Island, N.Z.					Northern Columbia.		
		(h = 30 km).					h = 10 km (UPP,KIR).		
"	16	KIR	iP	07 10 41.4			m = 6.6, M = 6.6 (UPP,KIR).		
		East of North Island, N.Z. (h = N).		"	18	KIR	iP	01 11 56.5	
"	16	KIR	iP	18 46 16.5			South of Sumbawa, Indonesia		
		Minahassa Peninsula, Sulawesi					(h = 25 km).		
		(h = 160 km).		"	18	UPP	iP	05 02 39.8	
"	17	KIR	iP	01 49 21.2			KIR	iP	05 02 06.4
		Kashmir - Xinjiang border region				UME	iP	05 02 20.7	
		(h = N).				South of Honshu, Japan (h = 440 km).			
"	17	UPP	iSn	02 22 52.5	"	18	KIR	iP	06 00 11.6
		UME	iSn	02 23 04.8				11 04 04.4	
		UDD	iPn	02 21 03.9			Northern Columbia (h = 15 km).		
			iSn	02 22 06.1	"	18	UPP	iP	13 22 55.1
		DEL	eSn	02 23 03			KIR	iP	13 22 40.3
		MYV	iPn	02 20 04.8			Banda Sea (h = 120 km).		
		(cont).		"	18	UPP	iP	15 24 42.8	C
							i	15 24 49.4	
						(cont).			

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1992				1992											
Oct.	19	UPP		micr	sec	Oct.	21	UPP	Mx	13	22				
			Mx	Z	5.2	25				micr	sec				
		KIR	iPKP		12	22	33.3		Mx	Z	6.1	19			
					micr	sec		KIR	Mx		13	27			
			Mx	Z	2.1	21				micr	sec				
		UME	i		12	22	44.1		Mx	Z	3.8	19			
		Vanuatu Islands (h = 20 km).							New Guinea, Papua New Guinea						
		M = 5.9 (UPP,KIR).							(h = 20 km).						
"	19	UPP	iPn		13	23	24.0	"	21	UPP	iP	15	16	10.7	
		KIR	iPn		13	22	07.8			UME	iP	15	16	39.1	
			i		13	22	17.3			Zaire (h = 10 km).					
		UME	iPn		13	22	47.4	"	22	UPP	iPKP	00	49	30.3	
		UDD	iPn		13	23	12.0			South of Fiji Islands (h = 170 km).					
		DEL	iPn		13	23	58.8	"	22	UPP	iPKP1	09	24	07.6	
		MYV	iPn		13	22	38.0				i	09	24	10.2	
		Norwegian Sea, 72.2°N, 2.5°W.								iSS	09	46	44		
		Origin time = 13 20 03.									micr	sec			
		By combination with Finnish and Norwegian station readings.								Mx	Z	9.0	22		
"	19	KIR	iP		20	09	16.3	UME	iPKP1	09	23	55.1			
		Northern Colombia (h = 10 km).								i	09	24	07.9		
"	20	UPP	iP		04	50	23.9			Kermadec Islands (h = 25 km).					
			iS		04	58	46			M = 6.4 (UPP,KIR).					
					micr	sec		"	22	UME	iPKP	09	51	27.1	
			P	Z'	0.2	1.5				Kermadec Islands region (h = 10 km).					
			Mx	Z	7.7	19				Late arrival when compared with the NEIC solution.					
		KIR	iP		04	49	26.8	"	22	UME	iP	18	39	08.6 D	
					micr	sec				Banda Sea (h = 320 km).					
			P	Z'	0.1	1.3		"	22	UPP	iPKP1	19	16	23.4	
			Mx	Z	6.3	21				UME	iPKP1	19	16	11.6	
		Komandorsky Islands region									Kermadec Islands, New Zealand				
		(h = 25 km).									(h = 10 km).				
		m = 5.9, M = 5.7 (UPP,KIR).							"	22	UPP	iP	19	12	03.7
"	20	UPP	iP		07	30	39.0			UME	iP	19	12	42.1	
		KIR	iP		07	30	14.4			Ionian Sea (h = 10 km).					
		Southwestern Ryukyu Islands							"	22	UPP	iPKP1	23	28	13.2
		(h = 20 km).									i	23	28	16.4	
"	20	KIR	iP		14	45	24.3				iSS	23	50	51	
					micr	sec					micr	sec			
"	20	UPP	iPKP		16	07	21.8	"	22	UPP	iPKP1	23	28	13.2	
		KIR	iPKP		16	07	08.0				i	23	28	16.4	
		South of Fiji Islands (h = 60 km).									iSS	23	50	51	
"	21	UPP	iP		05	32	04.5				Mx	Z	6.9	21	
		Andreanof Islands, Aleutian Is.									(cont).				
		(h = N).													

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1992				1992				
Oct.	22	(cont).		Oct.	23	UPP	iP	09 24 38.1
		KIR	micr sec				iS	09 27 05.0
		Mx	Z 5.8 23				P	Z' 0.1 1.1
		UME	iPKP1 23 28 00.1			KIR	iP	09 26 04.4
		Kermadec Islands, New Zealand (h = 15 km).						micr sec
		M = 6.3 (UPP,KIR).					P	Z' 0.3 1.0
"	22	UME	iPKP 23 38 26.3			UME	iP	09 25 18.4
		Kermadec Islands, New Zealand (h = N).				Romania (h = 70 km).		
		Early arrival, when compared with the NEIC solution.		"	23	UPP	iP	09 40 46.3
						KIR	iP	09 40 47.8
						UME	iP	09 40 45.0
"	23	UPP	iPKP1 00 04 37.2			Near west coast of Colombia (h = 10 km).		
		UME	iPKP1 00 04 23.9					
		Kermadec Islands, New Zealand (h = 30 km).		"	23	UPP	iP	10 51 55.3
"	23	UPP	iPKP1 01 17 32.5			KIR	iP	10 51 20.5
		UME	iPKP1 01 17 20.9			UME	iP	10 51 35.6
		Kermadec Islands, New Zealand (h = 10 km).				South of Honshu, Japan (h = N).		
"	23	UPP	iPKP1 02 00 25.1	"	23	UPP		micr sec
			i 02 00 35.0			Mx	Z 11 20	
		UME	iPKP1 02 00 11.4			KIR		micr sec
		Kermadec Islands, New Zealand (h = N).				Mx	Z 7.0 22	
						UME	iPKP	13 23 09.8
						New Britain region (h = 30 km).		
						M = 6.3 (UPP,KIR).		
"	23	UPP	iPKP1 02 17 01.9	"	23	UME	iPKP	15 47 40.0
		Kermadec Islands, New Zealand (h = 10 km).				New Britain region (h = N).		
"	23	UME	iPKP 04 47 24.3	"	23	UPP	iP	21 38 46.5
		Kermadec Islands region (h = N).					iPP	21 43 00.8
						KIR	iP	21 38 34.7
						Savu Sea (h = N).		
"	23	UPP	iPKP1 08 50 08.5	"	23	UPP	iP	23 25 00.9 C
		UME	iPKP1 08 49 55.7				iS	23 29 18
		Kermadec Islands region (h = 10 km).						micr sec
"	23	UPP	eP 09 17 33				P	Z' 0.8 0.7
			iS 09 22 42			KIR	iP	23 25 41.5 C
		KIR	eP 09 18 36					micr sec
			micr sec				P	Z' 1.5 1.0
			P Z' 0.1 1.2				Mx	Z 4.1 17
		UME	iP 09 18 08.6			UME	iP	23 25 15.1 C
		Marocco (h = 30 km).				Eastern Caucasus (h = 15 km).		
						m = 6.6 (UPP,KIR).		

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1992				1992					
Oct.	24	UPP	iP	00 19 54.3	Oct.	24	UPP	iPKP1	23 20 14.3
		KIR	iP	00 20 33.3				i	23 20 17.9
		UME	iP	00 20 06.8			KIR	iPKP	23 19 57.8
				Northwestern Caucasus (h = N).			UME	iPKP1	23 20 02.7
"	24	UPP	iPKP1	01 19 33.4 C			Kermadec Islands, New Zealand (h = 10 km).		
		KIR	i	01 19 31.1	"	25	UPP	iPKP1	00 49 01.1 C
		UME	iPKP1	01 19 21.0			KIR	iPKP	00 48 41.0
				Kermadec Islands, New Zealand (h = 10 km).			UME	iPKP1	00 48 47.5
"	24	UPP	iP	01 45 37.2			Kermadec Islands, New Zealand (h = 25 km).		
"	24	UPP	iPKP1	04 46 17.9	"	25	UPP	iPKP1	05 01 55.7
		UME	iPKP1	04 46 04.6			Kermadec Islands region (h = 10 km).		
				Kermadec Islands, New Zealand (h = 10 km).	"	25	UPP	iPKP1	07 42 21.8
"	24	UPP	iPKP1	08 42 44.4 C			Kermadec Island region (h = N). Late arrival when compared with the NEIC solution.		
				micr sec	"	25	UPP	iP	15 13 16.6
		Mx	Z	9.0 22			KIR	iP	15 13 15.5
		KIR	iPKP	08 42 25.3 C			UME	iP	15 13 12.7
				micr sec			Southern Sumatera, Indonesia (h = 55 km).		
		Mx	Z	4.5 23	"	25	UPP	iSn	22 20 20.0
		UME	iPKP1	08 42 32.0			KIR	iSn	22 19 49.5
				Kermadec Islands, New Zealand (h = 20 km). M = 6.3 (UPP,KIR).			UME	iSn	22 20 11.9
"	24	UPP	iPKP1	12 07 02.0			UDD	iSn	22 19 43.6
		UME	iPKP1	12 06 49.7			MYV	iPg1	22 18 12.0
				Kermadec Islands, New Zealand (h = 10 km).				i	22 18 54.0
"	24	KIR	iP	13 05 11.9				iSn	22 19 05.0
				Kyushu, Japan (h = 100 km).			Norwegian Sea, 65.1°N, 0.7°E. Origin time = 22 16 25. By combination with Finnish and Norwegian station readings.		
"	24	UPP	iPKP1	13 58 52.0	"	26	UME	iPKP1	17 20 38.7
		KIR	iPKP	13 58 37.4			Kermadec Islands, New Zealand (h = N).		
				Kermadec Islands, New Zealand (h = 45 km).	"	27	KIR	iP	03 02 07.9
"	24	KIR	iPKP	17 28 30.6				ipP	03 02 47.3
				Kermadec Islands region (h = N).			UME	iP	03 01 59.7
"	24	KIR	iP	22 29 04.0				ipP	03 02 38.9
				micr sec			Tajikistan. h = 190 km (KIR,UME).		
		P	Z'	0.1 1.0					
		UME	iP	22 29 14.4					
				South of Mariana Islands (h = 45 km).					

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1992				1992					
Oct.	27	KIR	ePg1	14 58 47	Oct.	29	KIR	iP	22 57 26.9
			iSg1	14 59 25.5				Northern Colombia (h = 35 km).	
		UME	iSg1	15 00 01.3					
		MYV	ePg1	14 59 06	"	30	UPP	iP	03 01 07.2 D
			iSg1	14 59 54.0				ipP	03 02 40.0
		Central Norway, 66.8°N, 14.4°E.						iPP	03 04 09
		Origin time = 14 58 00.						iS	03 10 24.7
		M _L (UPP) = 2.6 (0.01) 2.							micr sec
		By combination with Finnish and Norwegian station readings.						P	Z' 0.8 1.2
		Probable explosion.						Mx	Z 4.6 20
"	28	UPP	iP	07 13 06.7			KIR	iP	03 00 34.0 D
		KIR	iP	07 13 01.4				ipP	03 02 05.6
				micr sec				iS	03 09 23.3
			P	Z' 0.2 1.5					micr sec
		UME	iP	07 12 59.5				P	Z' 1.5 2.0
		Myanmar (h = 35 km).						Mx	Z 5.2 16
"	28	UPP	iPKP1	10 22 41.2			UME	iP	03 00 48.2 D
		Kermadec Islands region (h = N).						ipP	03 02 18.9
"	28	UPP	iPKP1	10 38 32.3			South of Honshu, Japan.		
		Kermadec Island region (h = 10 km).					h = 400 km (UPP,KIR,UME).		
"	28	UPP	iPKP1	13 50 52.1			m = 6.3, M = 5.8 (UPP,KIR).		
		Kermadec Islands, New Zealand (h = 10 km).					M uncorrected for focal depth.		
"	29	UPP	iP	07 43 07	"	30	UPP	iP	05 01 26.3
			iSKS	07 53 30			Southern Greece (h = 30 km).		
			iS	07 54 02					
				micr sec					
			Mx	Z 7.2 22	"	30	UPP	iP	06 14 51.9
		KIR	iP	07 42 48.8			Southern Greece (h = 50 km).		
				micr sec					
			P	Z' 0.1 1.2	"	30	UPP	iP	10 50 26.6
			Mx	Z 6.2 17				iS	10 55 34
		UME	iP	07 12 51.3					micr sec
		Mindanao, Philippine Islands (h = N).						Mx	Z 2.5 11
		M = 6.0 (UPP,KIR).					KIR	iP	10 51 28.0
"	29	UPP	iPKP2	19 51 50.1					micr sec
			i	19 52 00.2				P	Z' 0.2 1.3
		KIR	iPKP1	19 51 28.6				Mx	Z 2.9 14
		UME	iPKP1	19 51 37.8			UME	iP	10 50 57.2
		East of North Island, New Zealand (h = 55 km).						i	10 51 06.8
"	29	KIR	iP	22 08 50.8	"	30	UPP	iPKP1	15 16 00.4
		Northern Colombia (h = 35 km).					KIR	ePKP	15 15 42
							(cont).		

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

1992

Oct.	30	(cont).			
		UME	iPKP1	15 15 49.0	C
		Kermadec Islands (h = 50 km).			
"	30	KIR	iP	17 06 52.6	
		Jawa, Indonesia (h = 70 km).			
"	30	UPP	iP	21 57 06.9	
		KIR	iP	21 56 12.8	
		Alaska peninsula (h = 45 km).			
"	31	KIR	eP	05 27 52	
		Mindanao, Philippine Islands (h = 50 km).			
"	31	UPP	i(PKP)	11 49 48.7	
		KIR	iPKP	11 49 41.3	
		UME	iPKP	11 49 43.3	
		Fiji Islands region (h = 640 km).			
"	31	KIR	iP	13 31 36.6	
		Near north coast of Colombia (h = 10 km).			
"	31	UPP	iPdiff	14 48 44.5	
			i	14 52 53.7	
			iS	15 00 56	
			i	15 02 34	
				micr	sec
		Mx	Z	23	20
		KIR	iPdiff	14 48 23.6	
				micr	sec
			Mx	Z	15 20
		Near n. coast of New Guinea (h = 30 km).			
		M = 6.6 (UPP,KIR).			

March 23, 1994

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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

NOVEMBER 1 - 30, 1992

1992					1992				
Nov.	1	KIR	iPKP	01 31 46.0	Nov.	3	UPP	iSg1	00 15 26.0
				Vanuatu Islands (h = 60 km).			KIR	iPg1	00 13 32.9
								i	00 14 03.1
"	1	UPP	iPKP2	07 56 06.7				iSg1	00 14 15.0
		KIR	ePKP1	07 55 36			UME	iPg1	00 13 06.5
		UME	ePKP1	07 55 46				i	00 13 08.0
				East of North Island, N.Z. (h = 30 km).				iSg1	00 13 20.4
							UDD	iSg1	00 15 41.6
"	1	KIR	ePKP	09 55 13			MYV	iPn	00 13 39.2
		UME	ePKP	09 55 10				iPg1	00 13 44.0
				Chile - Argentina border region (h = 110 km).				iSn	00 14 17.0
								iSg1	00 14 26.2
									Västerbotten, Sweden, 65.0°N, 20.3°E. Origin time = 00 12 46. M _L (UPP) = 3.0 (0.29) 4. Felt with maximum intensity I ₀ =IV. By combination with Finnish station readings.
"	1	KIR	iPKP	10 22 20.4					
				South Sandwich Islands region (h = 25 km).					
"	2	UPP	iP	05 00 24.5	"	3	UPP	Mx	12 20
		KIR	iP	05 00 30.6					micr sec
				Afghanistan - Tajikistan border region (h = 130 km).				Mx	Z 6.0 23
"	2	KIR	iP	18 07 19.5			KIR	Mx	12 29
		UME	iP	18 07 40.6					micr sec
				Hokkaido, Japan region (h = 220 km).				Mx	Z 3.1 25
									Pacific - Antarctic Ridge (h = 10 km). M = 6.2 (UPP,KIR).
"	2	UPP	ePKP	20 56 04	"	4	UPP		micr sec
			iPKP2	20 56 13.2					
		UME	ePKP	20 55 58				Mx	Z 9.6 22
				Kermadec Islands region (h = 10 km).					

(cont).

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

1992				1992			
Nov.	8	UME iP	20 57 29.4	Nov.	11	UPP iPKP1	12 28 01.8
		Tajikistan (h = 60 km).				KIR iPKP	12 27 37.4
"	9	UME iSg1	17 56 36.7			Kermadec Island, New Zealand	(h = 270 km).
		UDD iSg1	17 54 46.0	"	11	UPP iP	14 09 44.5
		MYV iSg1	17 55 09.2			i	14 09 57.7
		Southwestern Norway, 60.4°N, 5.1°E.				KIR iP	14 11 06.6
		Origin time = 17 52 33.				Rumania (h = 140 km).	
		$M_L(\text{UPP}) = 2.4$		"	11	UPP iP	19 50 02.2
		Felt.				Southern Greece (h = 10 km).	
		By combination with Norwegian					
		station readings.					
"	10	UPP iP	01 20 41.4	"	11	UPP iP	21 37 13.4 C
		i	01 20 55.0			iS	21 46 10
		KIR iP	01 22 04.5				micr sec
		UME iP	01 21 22.9			P	Z' 0.6 1.1
		Rumania (h = 150 km).				Mx	Z 5.7 17
"	10	UPP iP	10 09 08.6			KIR iP	21 36 19.8
		KIR iP	10 08 15.9				micr sec
		UME iP	10 08 42.2			P	Z' 0.2 1.1
		Andreanof Islands. Aleutian Islands				Mx	Z 7.2 19
		(h = N).				UME iP	21 36 45.9
"	10	MYV iPn	20 26 26.8			ipP	21 36 55.2
		iSn	20 27 14.0			Andreanof Islands, Aleutian Islands	
		Norwegian Sea, 66.3°N, 7.0°E.				(h = N).	
		Origin time = 20 25 17.		"	12	KIR eP	13 54 20
		By combination with Finnish and				Andreanof Islands. Aleutian Islands	
		Norwegian station readings.				(h = 230 km).	
"	10	UPP iP	21 19 17.7	"	12	UPP Mx	16 13
			micr sec				micr sec
		Mx	Z 5.4 22			Mx	Z 7.2 21
		KIR iP	21 18 23.0			KIR Mx	16 13
		UME iP	21 18 48.6				micr sec
		Near east coast of Kamchatka				Mx	Z 4.7 20
		(h = 55 km).				South Atlantic Ocean (h = 10 km).	
"	10	UPP iP	22 19 40.4			M = 6.2 (UPP,KIR).	
		KIR iP	22 20 55.5	"	12	UPP iP	20 48 29.6 C
		Greece (h = 60 km).				iS	20 57 04
"	10	KIR iP	23 11 00.2				micr sec
		UME iP	23 11 14.6			P	Z' 1.8 1.0
		Volkano Islands region (h = 20 km).				KIR iP	20 48 38.8
"	11	UPP iP	01 49 28.7				micr sec
						P	Z' 2:0 1.2
						Hindu Kush region, Afghanistan	
						(h = 200 km).	
						m = 6.6 (UPP,KIR).	

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

1992				1992			
Nov.	12	UPP	iPKP	22 47 38.6	Nov.	16	(cont).
				micr sec			MYV iSg1 01 32 47.4
			P	Z' 0.2 0.9			Northern Norway, 67.7°N, 14.9°E.
		KIR	iPKP	22 47 20.6			Origin time = 01 30 21.
			iSKP1	22 50 24.3			$M_L(\text{UPP}) = 2.9$ 1.
				South of Fiji Islands (h = 360 km).			By combination with Norwegian station readings.
"	13	UME	iSg1	22 01 13.6	"	16	UPP iP 08 06 43.5
				Västerbotten, Sweden,			Bonin Islands region (h = N).
				64.9°N, 20.7°E.			
				Origin time = 20 01 33.			
				By combination with Finnish station readings.			
"	14	UPP	iPKP	08 38 00.0	"	17	UPP iP 02 46 09.1
				South of Fiji Islands (h = 550 km).			i 02 46 36.2
							KIR iP 02 46 51.0
							Afghanistan (h = 35 km).
"	15	KIR	iP	14 41 18.4	"	17	KIR iPKP 04 42 58.0
				Central Mediterranean Sea			Near coast of Central Chile
				(h = 100 km).			(h = 55 km).
"	15	KIR	iPg1	18 39 28.9	"	17	KIR iP 07 00 34.9
			iSg1	18 39 57.1			Banda Sea (h = N).
				Northern Norway, 67.7°N, 15.0°E.	"	17	KIR iSg1 13 03 25.8
				Origin time = 18 38 54.			Northern Norway, 67.9°N, 15.5°E.
				$M_L(\text{UPP}) = 2.6$ 1.			Origin time = 13 02 20.
				Solution from Norwegian station readings.			By combination with Norwegian station readings.
"	15	KIR	iPg1	18 45 21.6	"	17	UPP iP 20 42 17.2
			iSg1	18 45 48.9			KIR iP 20 41 45.4
				Northern Norway, 67.7°N, 14.7°E.			UME iP 20 41 59.0
				Origin time = 18 44 47.			Bonin Islands region (h = 530 km).
				$M_L(\text{UPP}) = 2.5$ 1.	"	17	KIR eP 21 53 32
				Solution from Norwegian station readings.			UME iP 21 53 42.4
							Ryukyu Islands (h = 110 km).
"	15	KIR	iPg1	18 59 15.9	"	17	UPP iP 23 33 00.8
			iSg1	18 59 44.1			KIR eP 23 32 07
				Northern Norway, 67.7°N, 14.8°E.			Andreanof Islands, Aleutian Islands.
				Origin time = 18 52 42.			(h = N).
				$M_L(\text{UPP}) = 2.5$ 1.	"	18	UME iP 06 19 57.7
				Solution from Norwegian station readings.			Off coast of Oregon (h = 10 km).
"	15	KIR	iPKP	23 15 40.0	"	18	KIR iPg1 09 45 24.6
				Vanuatu Islands. (h = 150 km).			iSg1 09 45 52.5
"	16	KIR	iPg1	01 30 54.5			(cont).
			iSg1	01 31 22.9			(cont).
				(cont).			

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

1992						1992						
Nov.	18	(cont).				Nov.	21	UPP	iP	05 12 33.1	C	
		Northern Norway, 69.0°N, 13.4°E.							iS	05 16 49.0		
		Origin time = 10 18 32.								micr	sec	
		$M_L(\text{UPP}) = 2.7$							P	Z' 1.3	0.6	
		By combination with Norwegian station readings.							Mx	Z 17	18	
								KIR	iP	05 13 43.6		
										micr	sec	
"	18	UPP	iP	21 15 32.9					P	Z' 3.6	1.2	
			iS	21 19 30					Mx	Z 3.6	9	
				micr	sec			UME	iP	05 13 08.1		
			P	Z' 1.6	1.4			Central Mediterranean Sea				
			Mx	Z 44	10			(h = 70 km).				
		KIR	iP	21 16 47.1				m = 6.8, M = 5.4 (UPP,KIR).				
				micr	sec			M uncorrected for focal depth.				
			P	Z' 0.9	1.4			"	21	UPP	iP	08 32 39.2
			Mx	Z 25	9					UME	iP	08 32 09.4
		UME	iP	21 16 11.2				Fox Islands, Aleutian Islands.				
		Greece (h = 15 km).						(h = N).				
		m = 6.4, M = 6.1 (UPP,KIR).						"	21	UPP	iP	09 08 06.7
"	18	KIR	iP	21 39 32.0		"	21	KIR	iP	09 07 13.9		
		Jawa, Indonesia (h = 50 km).								micr	sec	
"	19	UPP	iP	01 01 02.4					P	Z' 0.1	0.8	
		KIR	iP	01 00 28.3				UME	iP	09 07 40.9		
		Kyushu Japan (h = 35 km).						Fox Islands, Aleutian Islands				
"	19	UPP	iP	01 04 45.7		"	21	UPP	iP	12 59 13.7		
		KIR	iP	01 04 12.5					iS	13 01 54.0		
		UME	iP	01 04 25.0				KIR	iP	13 00 36.4		
		Kyushu Japan (h = 35 km).						UME	iP	12 59 54.5		
"	20	UPP	iPKP	05 01 16.7				Romania (h = 140 km).				
		South of Fiji Islands (h = 560 km).				"	21	UPP	iP	22 58 22.4		
"	20	KIR	iP	22 01 37.2						micr	sec	
		UME	eP	22 01 57					Mx	Z 10	19	
		Hokkaido, Japan region (h = 230 km).						KIR	iP	22 58 37.6		
										micr	sec	
"	20	UPP	iP	23 17 33.8					P	Z' 0.6	1.5	
		KIR	iP	23 16 44.8					Mx	Z 10	21	
		UME	iP	23 17 07.9				UME	eP	22 58 31		
		Sakhalin Islands. (h = 35 km).						South Sandwich Islands region				
"	21	UPP	iP	03 17 42.3				(h = 20 km).				
		KIR	iP	03 17 39.5				M = 6.4 (UPP,KIR).				
		Jawa, Indonesia (h = 50 km).				"	21	KIR	iPKP	23 30 54.3		
								South Sandwich Islands region				
								(h = N).				

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

1992				1992					
Nov.	27	UPP KIR	iP iP	02 04 57.8 02 04 02.5	Nov.	28	(cont). UDD DEL	iP iPn	02 04 43.6 02 03 57.6
				Near east coast of Kamchatka (h = 30 km).					Poland (h = 10 km).
"	27	UPP KIR UME	iPKP2 iPKP iPKP1 iPKP2	04 59 31.3 04 59 01.6 04 59 10.3 04 59 15.0	"	28	UPP UDD DEL	eSg1 iSg1 iPg1 iSg1	02 54 26 . 02 54 33.6 02 52 24.0 02 52 45.1
				East of North Island New Zealand (h = 60 km).					Southwestern Baltic Sea, 54.9°N, 14.4°E. Origin time = 02 51 55. M _L (UPP) = 2.2 1. By combination with Danish station readings.
"	27	UPP KIR	iP iP ipP	14 04 30.4 14 04 16.3 14 04 20.8	"	28	UPP	iP	03 32 27.9 micr sec
				UME Halmahera, Indonesia (h = 20 km).					Mx Z 16 22
"	27	KIR	iP	16 12 29.5			KIR	iP	03 32 23.9 micr sec
				Southern California (h = 2 km).					Mx Z 7.6 19
"	27	UPP KIR UME	iP iP iP	16 17 34.0 16 17 17.8 16 17 20.0			UME	iP	03 32 21.4
				Southern Xinjiang - China (h = 15 km).					Near coast of Central Chile (h = 10 km). M = 6.4 (UPP,KIR).
"	27	UPP KIR	iP iP	20 13 47.4 20 13 27.4	"	28	KIR	iP	17 58 56.5
				UME Ryukyu Islands (h = N).					Halmahera, Indonesia (h = 35 km).
"	27	UPP	iP	21 16 07.8 micr sec	"	29	UPP UME	iPKP2 iPKP	03 23 59.1 03 23 40.4
				Mx Z 2.7 12					Kermadec Islands, New Zealand (h = 10 km).
		KIR	iP	21 16 34.0 micr sec	"	29	UPP KIR UME	iP iP eP	04 31 50.3 04 31 34.0 04 31 39
				Mx Z 1.4 10					Mindanao, Philippine Islands (h = 70 km).
		UME	iP	21 16 11.6	"	29	UPP KIR UME	iP iP iP	11 13 11.6 11 12 23.4 11 12 46.0
				Turkmenistan - Iran border region (h = 25 km). M = 5.1 (UPP,KIR).					Kuril Islands (h = 45 km).
"	28	UPP KIR UME	iP iP iP	00 58 13.7 00 57 35.0 00 57 51.4	"	29	UPP KIR	iP eP	17 49 29.4 17 49 13
				East Honshu, Japan (h = 60 km).					Qinghai, China (h = N).
"	28	UPP UME	ePn iS	02 04 32 02 07 41.7					
				(cont).					

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

1992

Nov.	30	UPP	iP	00 31 42.0
		KIR	iP	00 30 58.1
		Hokkaido, Japan region (h = 70 km).		
"	30	UPP	iP	09 40 20.9
			ipP	09 40 28.1
			iS	09 46 44
				micr sec
		P	Z'	0.6 1.7
		P	Z'	0.9 1.6
		KIR	iP	09 40 47.8
				micr sec
		P	Z'	0.8 1.5
		Mx	Z	2.5 15
		UME	iP	09 40 38.9
			ipP	09 40 45.8
		Azores Island region (h = 20 km).		
		m = 6.2 (UPP,KIR).		

April 21, 1994

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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

DECEMBER 1 - 31, 1992

1992					1992				
Dec.	1	UPP	ePKP	00 42 44	Dec.	4	(cont).		
			iSKP	00 46 11.6			UME	iP	11 44 01.8
		KIR	iPKP	00 42 27.1			Tajikistan.		
				micr sec			h = 120 km (UPP,KIR).		
			P	Z' 0.1 1.2			m = 6.5 (UPP,KIR).		
		UME	iPKP	00 42 35.5	"	4	UME	iP	19 16 11.6
			iSKP	00 45 59.4			Northwestern Balkan Region		
		Vanuatu Islands (h = 30 km).					(h = 10 km).		
"	1	UPP	iP	23 02 23.7	"	6	UPP	eP	01 53 40
			ipP	23 02 32.0			KIR	eP	01 54 13
		KIR	eP	23 03 34			UME	eP	01 53 53
		Southern Greece. (h = N).					Carlsberg Ridge (h = 10 km).		
"	2	UPP	iP	18 13 31.7	"	6	UPP	iP	03 51 57.9 D
		KIR	iP	18 12 35.0					micr sec
		UME	iP	18 13 04.4				P	Z' 0.2 0.8
		Southern Alaska. (h = 70 km).					KIR	iP	03 52 04.1
"	3	KIR	iP	14 17 26.7					micr sec
		Kuril Islands (h = N).						P	Z' 0.4 0.8
"	4	UPP	iP	11 44 05.1			UME	iP	03 51 55.2
			ipP	11 44 32.0			Tajikistan (h = 130 km).		
			iS	11 52 38			m = 6.2 (UPP,KIR).		
				micr sec	"	6	UPP	iP	22 36 15.8
			pP	Z' 0.4 0.7			Southern Sumatera, Indonesia		
			Mx	Z 2.9 10			(h = 100 km).		
		KIR	iP	11 44 10.7	"	7	UPP	iP	02 22 40.8
			ipP	11 44 38.2				iS	02 31 36
				micr sec			(cont).		
			P	Z' 0.9 0.8			(cont).		

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

1992				1992				
Dec.	14	(cont.)		Dec.	17	UPP	iP	10 47 45.3 C
		UME	iPKP				ipP	10 47 54.6
								micr sec
			07 58 53.1				P	Z' 0.3 0.9
						KIR	iP	10 48 11.6 C
			Vanuatu Islands region (h = 620 km).					micr sec
"	14	UPP	iP				P	Z' 0.4 0.8
						UME	iP	10 47 53.2
"	14	UME	iSn					Southern Iran (h = N).
			eSg1					m = 6.4 (UPP,KIR).
		UDD	iSn					
		MYV	iPn					
			iSn					
			i					
				"	17	UPP	iP	17 50 38.7
			Norwegian Sea, 66.1°N, 7.8°E.				P	Z' 0.2 1.1
			Origin time = 15 04 29.			KIR		micr sec
			$M_L(UPP) = 3.0$ 1.				Mx	Z 66 10
			By combination with Finnish and Norwegian station readings.			UME	iP	17 50 37.7
"	14	UPP	iPKP1					Afghanistan - Tajikistan border region (h = 35 km).
			iPKP2					
		KIR	iPKP	"	18	UME	ePKP	03 32 33
		UME	iPKP					Eastern New Guinea region (h = 30 km).
			South of Kermadec Islands (h = 250 km).	"	18	UME	iP	10 02 20.0
"	15	UPP	iPKP	"	18	UPP	iP	11 32 13.8
			i					Yunnan, China (h = 30 km).
				"	19	UPP	eP	09 37 31
			Kermadec Islands, New Zealand (h = N).					Northwestern Balkan region (h = 25 km).
"	15	UPP	iP	"	19	UPP	iP	12 24 52.0 D
								micr sec
			Arabian sea (h = 10 km).				P	Z' 0.1 0.7
"	15	KIR	eP			KIR	iP	12 23 59.8
		UME	iP					micr sec
							P	Z' 0.5 0.9
			Mindanao, Philippine Islands (h = 20 km).			UME	iP	12 24 23.4
"	15	UPP	iP					Near east coast of Kamchatka (h = 55 km).
		KIR	iP					m = 6.3 (UPP,KIR).
		UME	iP	"	19	UPP	iP	22 10 42.2
								Minahassa Peninsula, Sulawesi (h = 130 km).
			Romania (h = 150 km).					
"	15	KIR	iP					
			12 58 53.4					
			micr sec					
			P					
			Z' 0.1 1.3					
			Mindanao, Philippine Islands (h = 35 km).					

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1992				1992			
Dec.	20	UPP	iP	05 30 00.5	Dec.	21	(cont).
				micr sec			UME iPKP 11 14 18.6
			P	Z' 0.1 1.1			Kermadec Islands, New Zealand
		KIR	eP	05 29 11			(h = 10 km).
				Kuril Islands (h = 35 km).			
"	20	UPP	eP	11 55 06	"	21	UME iP 18 53 54.7
				Afghanistan - Tajikistan border region			Kuril Islands (h = 80 km).
				(h = 45 km).			
"	20	UPP	iPKP	16 57 21.3 C	"	22	UME iP 00 29 32.8
				micr sec			Myanmar - India border region
			P	Z' 0.3 0.7			(h = N).
		KIR	iPKP	16 57 10.1	"	22	KIR iP 05 08 10.7
		UME	iPKP	16 57 09.1			UME iP 05 08 15.6
				South of Fiji Islands (h = 500 km).			Banda Sea (h = 70 km).
"	20	UPP	iP	18 01 52.4	"	22	KIR eP 12 42 20
				Southern Greece (h = 40 km).			Southern Xinjiang, China (h = N).
"	20	UPP	eP	19 47 07	"	22	KIR iP 16 51 30.9
		KIR	eP	19 46 44			UME iP 16 51 28.9
				Qinghai, China (h = 20 km).			Xizang (h = N).
"	20	UPP	iPdiff	21 06 54.3	"	23	KIR iP 00 43 14.3
			i	21 06 59.9			UME iP 00 43 31.9
			ipP	21 07 14.4			ipP 00 43 41.8
				micr sec			Off east coast of Honshu, Japan
			Mx	Z 68 22			(h = 30 km).
		KIR	iPdiff	21 06 39.1	"	23	KIR iP 03 14 34.5
			ipP	21 06 58.6			micr sec
				micr sec			P Z' 0.1 1.0
			Mx	Z 43 20			UME iP 03 14 38.8
		UME	iPdiff	21 06 43.5			Banda Sea (h = 100 km).
			ipP	21 07 02.6	"	23	KIR eP 07 31 12
				Banda Sea.			UME iP 07 31 17.1
				h = 70 km (UPP,KIR,UME).			Costa Rica (h = 160 km).
				M = 7.0 (UPP,KIR).	"	24	UPP iPKP 00 53 29.5
				M uncorrected for focal depth.			i 00 53 42.5
"	20	UPP	iP	21 22 26.1			KIR iPKP 00 53 17.0
"	21	UPP	iP	06 24 23.0			Tonga Islands (h = 25 km).
		KIR	eP	06 23 31	"	24	UPP iP 05 16 56.9
				Rat Islands, Aleutian Islands			KIR eP 05 16 59
				(h = 100 km).			UME iP 05 16 51.1
"	21	UPP	iPKP1	11 14 30.0			Kyrgyzstan (h = 40 km).
			iPKP2	11 14 34.2			

(cont).

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1992				1992					
Dec.	24	UPP	iP	17 17 13.8	Dec.	26	(cont).		
		KIR	eP	17 17 09.6			KIR	iP	20 03 57.0
		Kashmir - Xizang border region							micr sec
		(h = N).						Mx	Z 22 14
"	26	UPP	eP	00 52 34			UME	iP	20 03 47.7
		KIR	eP	00 53 44			Central Mid-Atlantic Ridge		
		Central Mediterranean Sea							(h = 25 km).
		(h = 40 km).			"	26	UPP	iP	22 22 35.1
"	26	UPP	iSg1	05 27 24.5			KIR	iP	22 21 57.7
		UME	iSn	05 27 18.3			UME	iP	22 22 16.4
			iSg1	05 28 19.2			Off coast of Oregon (h = 10 km).		
		UDD	iSn	05 26 01.7	"	27	UPP	iP	16 32 36.0
			iSg1	05 26 29.3				iS	16 41 54
		Norwegian Sea, 59.3°N, 1.4°E.							micr sec
		Origin time = 05 23 10.						Mx	Z 7.9 17
		$M_L(\text{UPP}) = 3.4 (0.06) 2.$					KIR	iP	16 31 55.6
		By combination with Finnish and Norwegian station readings.							micr sec
"	26	UPP	eP	06 20 42				Mx	Z 12 16
		New Britain region (h = 40 km).					UME	iP	16 32 14.5
"	26	UPP	iP	11 52 28.0			Near east coast of Honshu, Japan		
			i	11 52 31.2					(h = 30 km).
		KIR	iP	11 52 35.8	"	27	UPP	iP	16 43 19.5
		UME	iP	11 52 24.2			South of Fiji Islands (h = 10 km).		
		Afghanistan - Tajikistan border region			"	27	UPP	iP	22 01 37.1
		(h = 90 km).							micr sec
"	26	UPP	iPKP1	19 34 17.3 C				P	Z' 0.1 1.1
		KIR	ePKP	19 34 00			KIR	iP	22 01 30.6
		UME	iPKP1	19 34 06.5					micr sec
		South of Kermadec Islands						P	Z' 0.2 1.2
		(h = 10 km).					UME	iP	22 01 31.1
"	26	UPP	iPKP1	19 47 57.7			Jawa, Indonesia (h = 600 km).		
		UME	iPKP1	19 47 47.0					m = 6.2 (UPP,KIR).
		South of Kermadec Islands			"	28	UPP	eP	05 35 11
		(h = 10 km).						ipP	05 35 20.9
"	26	UPP	iPKP1	19 58 00.2			KIR	eP	05 34 47
		KIR	ePKP1	19 57 48			Taiwan (h = 35 km).		
		UME	iPKP1	19 57 49.6	"	28	UPP	iP	08 54 17.4 C
		South of Kermadec Islands							micr sec
		(h = 10 km).						P	Z' 0.1 1.0
"	26	UPP	iP	20 03 23.4			KIR	iP	08 54 47.2
		(cont).							micr sec
								P	Z' 0.1 1.2
							(cont).		

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1992			1992		
Dec.	28	(cont). UME iP 08 54 21.6 Pakistan (h = 45 km). m = 5.8 (UPP,KIR).	Dec.	30	UPP eP 20 31 57 KIR eP 20 32 00 Venezuela (h = 180 km).
"	28	UPP eP 13 50 20 Pakistan (h = 15 km).	"	31	UPP iP 01 40 25.5 KIR iP 01 40 28.9 micr sec P Z' 0.3 1.3
"	28	KIR eP 23 30 47 Virgin Islands (h = 30 km).	"	31	UPP iP 01 40 30.8 Northern Colombia (h = 170 km).
"	29	UPP eP 11 46 31 KIR iP 11 47 32.4 UME iP 11 46 58.2 Cyprus region (h = 60 km).	"	31	UPP eP 04 40 17 i 04 40 49.7 KIR eP 04 37 24 UME eP 04 38 41
"	29	UPP iP 14 55 22.4 Greece - Albania border region (h = 5 km).	"	31	UPP iP 07 14 02.8 i 07 14 10.3 ipP 07 14 12.9 KIR iP 07 13 21.7 i 07 13 29.3 ipP 07 13 31.8 UME iP 07 13 40.2 i 07 13 47.9 ipP 07 13 50.1 Near east coast of Honshu, Japan h = 35 km (UPP,KIR,UME).
"	29	UME iP 20 50 12.1 San Juan Province, Argentina (h = 130 km).	"	31	UPP iP 07 37 24.4 i 07 37 34.5 ipP 07 37 35.5 micr sec Mx Z 4.1 17
"	29	KIR ePdiff 21 31 23 Timor region, Indonesia (h = 100 km).	"	31	KIR iP 07 36 42.9 i 07 36 53.0 ipP 07 36 54.5 micr sec Mx Z 3.6 15
"	30	UPP eP 03 19 06 Greece - Albania border region (h = 50 km).	"	31	UME iP 07 37 01.4 i 07 37 11.0 ipP 07 37 12.3 Near east coast of Honshu, Japan h = 40 km (UPP,KIR,UME). M = 5.7 (UPP,KIR).
"	30	UPP ePKP 05 28 42 UME iPKP 05 28 36.0 Kermadec Islands region (h = 10 km).	"	31	UPP eP 10 40 24 Qinghai, China (h = N).
"	30	UME iPKP 06 44 06.1 Solomon Islands (h = 50 km).	"	31	UPP eP 11 55 35 Andreaof Islands, Aleutian Islands (h = N).
"	30	UME iP 13 10 03.4 Kuril Islands (h = 130 km).	"	31	UPP eP 11 55 35 Andreaof Islands, Aleutian Islands (h = N).
"	30	UPP iP 16 07 07.1 KIR iP 16 06 49.7 UME iP 16 06 55.0 Mindanao, Philippine Islands (h = 60 km).	"	31	UPP eP 11 55 35 Andreaof Islands, Aleutian Islands (h = N).
"	30	KIR eP 18 16 46 Turkey (h = 5 km).	"	31	UPP eP 11 55 35 Andreaof Islands, Aleutian Islands (h = N).

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1992

Dec.	31	UPP	iPKP	20 36 52.8
			iPKP1	20 36 58.7
				micr sec
			Mx	Z 8.6 21
		KIR	iPKP	20 37 37.7
				micr sec
			Mx	Z 7.3 21
		UME	iPKP	20 36 47.1
		South of Kermadec Islands		
		(h = 15 km).		
		M = 6.4 (UPP,KIR).		
"	31	UPP	ePKP1	20 49 02
		UME	iPKP	20 48 50.3
		Kermadec Islands region (h = 10 km).		
"	31	UPP	ePKP	21 44 33
			ePKP1	21 44 38
		Kermadec Islands region (h = 10 km).		
"	31	UPP	ePKP1	21 57 39
			ePKP2	21 57 47
		UME	iPKP1	21 57 28.1
		Kermadec Islands region (h = 10 km).		
"	31	UPP	ePKP1	22 33 50
			ePKP2	22 33 54
		UME	iPKP	22 33 34.3
		Kermadec Islands region (h = 10 km).		

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