

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/01	18:50:08.8	+ - 0.43	51.620N	7.790E	7.8	4.4	94	0G		7	4	164	2.0ML	TNS	BGR	I
1997/09/01	18:50:08.7	+ - 0.32	51.610N	7.780E	4.4	3.3	130	1G		10	5	116	2.1ML		SZGRF	I
1997/09/01	18:50:07.1		51.655N	7.728E				1G					2.0ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg + Z	18:50:15.0	1.2	TA		39.7	233.2	ML 2.1
	e Sg E	18:50:20.9	2.4					
IBBN	e Pg Z	18:50:22.0	2.6			72.5	1.5	ML 2.2
	e Sg E	18:50:30.4	2.6					
GSH	e Pn Z	18:50:31.8	0.9			138.9	223.2	ML 2.1
	e Sg E	18:50:48.5	1.7					
TNS	e Pn Z	18:50:36.0	1.6			167.1	162.2	ML 2.0
	e Sg E	18:50:54.8	-0.0					
CLZ	e Pn Z	18:50:38.4	2.0			183.2	82.5	ML 2.1
	e Sg E	18:51:00.7	1.2					
CLL	e Sg	18:51:55.0	3.0			367.2	94.0	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/02	00:30:52.0		47.547N	7.795E				10G			17		2.9ML	FUR	NEIC	
1997/09/02	00:30:52.5	+ - 0.20	47.620N	7.827E	3.6	2.1	68	15	+ - 0.0	61	25		3.1ML		LDG	L
1997/09/02	00:30:49.0	+ - 1.64	47.500N	7.660E	20.0	12.2	16	0G		4	3	297	2.6ML	BFO	BGR	L
1997/09/02	00:30:50.0	+ - 0.86	47.580N	7.750E	21.1	14.5	6	10G		15	10	269	3.0ML		SZGRF	L
1997/09/02	00:30:53.4	+ - 0.11	47.603N	7.854E	1.3	1.2	55	23	+ - 0.8	44	22	83	3.0ML		LEDBW	LA
			Intensity = IV (MSK), Max. intensity, Felt in Schopfheim,Bad Saeckingen,Schachen-Albruck,Rheinfelden,Schoenau,Waldshut.													
			Radius of perceptibility = 30 km													
1997/09/02	00:30:53.2		47.595N	7.865E	1.0	1.0	0	25	+ - 0.8	13	9		2.6ML		SED	

Saeckingen, NE of Liestal/CH, Swiss-German border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
SOL	i Pg -	00:30:57.5	-0.0			6.0	263.0	
		Sg	00:31:00.3	-0.2				
END	i Pg -	00:30:58.1	-0.1			16.4	144.4	
		Sg	00:31:01.5	-0.2				
EFR	i Pg -	00:30:58.9	-0.1			23.9	109.0	
		Sg	00:31:03.1	0.1				
BAW	i Pg -	00:30:59.2	-0.2			26.7	148.1	
		Sg	00:31:03.3	-0.3				
FELD	i Pg +	00:31:00.2	0.0			33.0	198.4	
		Sg	00:31:05.1	0.1				
KIZ	i Pg +	00:31:01.0	-0.2			40.4	185.7	ML 3.3
		Sg	00:31:06.4	-0.3				
FBB	e Pg	00:31:01.9	-0.1			45.2	178.9	
		Sg	00:31:07.8	-0.1				

LIBD	i	Pg	+	00:31:04.9	-0.1	64.8	162.3	
	i	Sg		00:31:13.3	0.3			
BFO	e	Pn	+	00:31:07.1	-1.1	88.7	203.1	ML 2.6
	i	Pg	+	00:31:08.1	-0.8			
	i	Sg		00:31:18.9	-0.6			
BHB	i	Pn	-	00:31:10.1	-0.9	111.6	229.9	
	i	Pg	+	00:31:12.1	-0.5			
	i	Sg		00:31:25.4	-0.4			
SGW	i	Pn	-	00:31:10.7	-0.8	115.7	241.0	ML 3.0
	i	Pg		00:31:12.9	-0.4			
	e	Sn		00:31:24.2	-0.2			
	i	Sg		00:31:27.1	0.1			
JUN	e	Pn	-	00:31:10.9	-1.0	119.8	227.4	
	e	Pg		00:31:13.3	-0.6			
	e	Sg		00:31:27.4	-0.8			
HSN	i	Pn	-	00:31:11.9	-0.9	126.5	231.9	
	e	Pg	+	00:31:14.4	-0.7			
	i	Sg		00:31:29.5	-0.5			
LBG	e	Pn		00:31:12.9	-1.3	137.4	210.5	ML 3.0
	e	Pg		00:31:15.7	-1.2			
	e	Sg		00:31:32.2	-0.9			
BEU	i	Pn	-	00:31:15.5	-1.3	159.2	226.9	ML 2.8
	e	Pg		00:31:19.5	-1.0			
	e	Sg		00:31:38.0	-1.2			
UBR	i	Pn	-	00:31:18.3	0.4	168.3	267.6	ML 2.7
	i	Pg		00:31:24.9	2.8			
HDH	e	Sx		00:31:43.4		205.8	238.6	ML 2.8
	e	Sg		00:31:50.8	-1.6			
HOL	e	Pg		00:31:34.9	0.1	244.0	216.7	ML 3.0
	e	Sg		00:32:03.2	-0.1			
FUR	i	Pn	-	00:31:37.5	8.2	262.0	257.3	ML 3.1
	i	Pg		00:31:41.8	4.0			
	e	Sg	E	00:32:08.6	0.2			
TNS	e	Pn	Z	00:31:33.2	-0.2	295.2	188.5	ML 2.6
	e	Sn	E	00:32:03.4	1.0			
GRC1	e	Sg	N	00:32:22.8	0.1	312.1	241.4	
GRA1	e	Sg	E	00:32:31.9	1.5	339.3	227.9	ML 3.1
GSH	e	Pn	Z	00:31:42.8	0.9	365.7	162.2	
WET	e	Pn	Z	00:31:51.4	4.3	408.3	246.9	ML 2.9
	e	Sn	E	00:32:28.0	1.7			
	e	Sg	E	00:32:48.8	-1.2			
HOF	e	Pn		00:31:48.1	-0.6	420.8	225.6	
MOX	e	Sn	E	00:32:32.6	0.7	435.2	220.3	ML 2.9
	e	Sg	E	00:32:55.9	-1.9			
CLZ	e	Sg	E	00:33:17.8	0.1	505.3	201.9	ML 3.1
CLL	e	Sg	E	00:33:29.4	-2.5	555.0	224.0	ML 3.3
BRG	e	Sg		00:33:36.2	-0.6	572.0	232.8	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/02	09:19:15.3	+- 0.33	51.680N	7.890E	5.6	4.4	128	1G		10	5	114	2.1ML		SZGRF	I
1997/09/02	09:19:13.1		51.693N	7.863E				1G					1.9ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	09:19:23.0	1.5	TA		49.7	235.9	ML 2.0
	e Sg N	09:19:30.1	2.8					
IBBN	e Pg Z	09:19:26.0	1.2			68.7	353.9	ML 2.2
	e Sg E	09:19:36.2	3.5					
GSH	e Pn Z	09:19:39.3	1.2			148.3	224.8	ML 2.1
	e Sg N	09:19:59.2	3.7					
TNS	e Pn Z	09:19:44.0	3.4			168.5	165.7	ML 2.1
	e Sg N	09:20:02.6	1.3					
CLZ	e Pn Z	09:19:43.1	1.9			173.4	83.5	ML 2.1
	e Sg N	09:20:04.9	2.3					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/02	13:56:05.5		47.562N	8.161E				0G		15	13		2.2ML		SED	B?

Laufenburg, N of Brugg/CH, Swiss-German border region

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/03	09:28:02.2		49.437N	5.879E				10G			8		2.5ML	UCC	NEIC	
1997/09/03	09:28:00.9	+- 1.98	49.370N	5.900E	23.3	6.7	68	0G		4	3	250	1.9ML	GSH	BGR	B
1997/09/03	09:28:02.0	+- 0.20	49.479N	6.021E	7.1	3.4	54	2	+- 0.0	14	7		2.5ML		LDG	L

S of Luxembourg/LUX, French-Luxembourg border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GSH	e Sg N	09:28:45.7	3.1		2.2	142.2	10.2	ML 1.9
TNS	e Pg Z	09:28:35.5	0.8		2.8	192.6	63.7	ML 2.2
	e Sg N	09:28:59.9	2.9		2.1			
BFO	e Sg E	09:29:01.8	-0.7		2.1	211.6	126.3	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/03	19:59:32.0	+- 0.30	51.620N	7.790E	5.6	4.4	139	1G		12	6	117	2.0ML		SZGRF	I
1997/09/03	19:59:30.7		51.657N	7.723E				1G					1.9ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg + Z	19:59:38.6	1.2	TA		39.6	232.7	ML 2.1
	e Sg E	19:59:44.4	2.4					
IBBN	e Pg Z	19:59:45.1	2.2			72.3	1.8	ML 2.1
	e Sg E	19:59:54.2	2.8					
GSH	e Pn Z	19:59:54.2	-0.4			138.8	223.0	ML 2.0
	e Pg Z	19:59:55.6	1.4					
	e Sg E	20:00:12.5	2.1					
TNS	e Pn Z	19:59:59.7	1.6			167.4	162.1	ML 2.0
	e Sg E	20:00:19.1	0.6					
CLZ	e Pn Z	20:00:00.9	0.8			183.5	82.5	ML 2.0
	e Sg E	20:00:25.2	2.1					
MOX	e Pn Z	20:00:15.6	2.1			293.8	111.0	
	e Sg N	20:00:53.1	-1.6					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/03	21:48:45.5		49.828N	7.033E				1		21	15		3.3ML		SED	
1997/09/03	21:48:50.6		49.128N	6.707E				10G			45		3.1ML	UCC	NEIC	I
Mining induced event in the			Lorraine region, France													
1997/09/03	21:48:52.0	+ - 0.20	49.148N	6.793E	3.7	2.3	61	5	+ - 0.0	57	22		3.3ML		LDG	L
1997/09/03	21:48:50.4	+ - 0.98	49.140N	6.730E	10.0	4.4	56	1G		19	12	225	3.1ML		SZGRF	I
1997/09/03	21:48:50.8	+ - 0.59	49.150N	6.710E	7.8	3.3	65	0G		15	9	225	3.0ML	TNS	BGR	I
1997/09/03	21:48:52.9	+ - 0.40	49.220N	6.950E	5.0	3.0	73	1G		12	11	200	2.9ML		LEDBW	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	i Pg -	21:49:02.4	0.4	T		54.1	8.4	
	i Sg	21:49:10.6	2.2					
KTD	i Pg	21:49:07.0	-0.0	T		83.0	81.9	
	i Sg	21:49:19.7	3.1					
ABH	e Pg +	21:49:07.5	0.2	T		85.3	30.1	
	e Sg	21:49:21.4	4.1					
TOD	i Pn	21:49:15.4	-1.6	T		140.8	71.6	
	i Sn	21:49:35.0	1.0					
BFO	e Pn Z	21:49:14.9	-2.2		4.4	141.5	133.9	ML 2.8
	e Pg Z	21:49:17.0	0.1					
	e Sg N	21:49:33.1	-0.2					
LBG	e Pn -	21:49:15.8	-2.1	T		148.2	114.0	
	e S?	21:49:35.7						
TNS	e Pn N	21:49:18.1	-0.7		2.4	154.9	43.4	ML 3.0
	e Pg N	21:49:20.6	1.4					
	e Sg N	21:49:39.6	2.4					
KIZ	e P?	21:49:17.3		T		157.5	152.8	
	e Sn	21:49:35.6	-1.9					

FELD	i	Pn	+	21:49:19.3	-1.0	T		168.3	152.2								
	i	Sn		21:49:38.9	-0.9												
GSH	e	Pn	Z	21:49:19.3	-1.7		1.8	173.6	346.6	ML	2.6						
	e	Pg	Z	21:49:20.9	-1.4		6.0										
	e	Sg	Z	21:49:42.3	-0.2		2.6										
BEU	e	Pn		21:49:22.2	-1.2			193.6	110.5	ML	2.9						
	i	Pg	-	21:49:25.1	-0.6	T											
	i	Sg		21:49:48.7	0.5												
BBS	e	Pn		21:49:24.1	-0.1	T		199.5	167.8								
SGW	e	Pn		21:49:23.9	-1.2	T		207.3	125.8	ML	3.0						
	i	Pg	-	21:49:28.1	0.1	T											
	e	Sg		21:49:51.3	-0.8												
HOL	e	Pn		21:49:23.6	-1.6			208.1	84.3	ML	2.7						
	i	Pg	+	21:49:28.0	-0.2	T											
	e	Sn		21:49:47.8	-0.4												
	e	Sg		21:49:55.2	2.8												
BUG	e	Pn	Z	21:49:31.2	1.1			247.9	5.1	ML	3.0						
	e	Sg	N	21:50:04.2	0.4		2.8										
HDH	e	Pg		21:49:37.5	2.6			248.3	105.3	ML	2.7						
	e	Sg		21:50:04.8	0.9												
UBR	e	Pg		21:49:35.5	-6.4			289.0	125.1	ML	2.9						
	e	Sg		21:50:17.8	2.3												
GRA1	e	Sg	N	21:50:24.3	1.9			313.2	78.7	ML	3.2						
FUR	e	Pn	Z	21:49:41.8	0.7			338.5	108.7	ML	3.5						
	e	Sg	N	21:50:32.5	2.9		4.2										
IBBN	e	Sg	E	21:50:32.9	0.5		1.7	347.9	9.1	ML	3.4						
MOX	e	Pg		21:49:56.4	0.9			369.5	62.8	ML	3.0						
	i	Sn		21:50:25.2	2.8												
	e	Sg	N	21:50:43.3	4.8												
CLZ	e	Pn	Z	21:49:45.8	-0.2			378.7	38.4	ML	3.3						
	e	Sn	E	21:50:26.4	2.1												
	e	Sg	N	21:50:43.3	2.2												
WET	e	Pn	E	21:49:53.1	0.7		5.5	430.8	88.9	ML	3.0						
	e	Sg	N	21:50:56.8	0.8												
CLL	e	Sg	N	21:51:15.7	3.2			488.6	59.3	ML	3.4						
GEC2	e	Pn	E	21:50:00.3	0.3		14.9	493.8	92.3								
BRG	e	Sg	N	21:51:28.3	3.4			531.8	67.1	ML	3.2						

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/03	22:29:13.5	+-	0.32	51.600N	7.790E	4.4	3.3	157	0G		11	7	114	2.1ML	GSH	BGR	I
1997/09/03	22:29:11.4			51.652N	7.726E				1G					1.7ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg - Z	22:29:19.2	1.1	TA		39.4	233.5	ML 2.0
	e Sg E	22:29:25.2	2.6		9.9			

IBBN	e	Pg	Z	22:29:26.9	3.2	2.5	72.9	1.6	ML	2.2
	e	Sg	E	22:29:35.7	3.5	3.1				
GSH	e	Sg	E	22:29:53.6	2.7	4.0	138.5	223.3	ML	2.1
TNS	e	Pg	Z	22:29:40.5	0.8	1.3	166.8	162.1	ML	2.1
	e	Sg	N	22:29:59.4	0.3	2.9				
CLZ	e	Pg	Z	22:29:44.8	2.3	2.4	183.4	82.4	ML	2.2
	e	Sg	E	22:30:05.2	1.4	4.2				
MOX	e	Sg	Z	22:30:34.7	-0.5	2.4	293.5	110.9	ML	2.4
CLL	e	Sg	E	22:30:58.4	2.1	2.2	367.3	93.9	ML	2.6
BRG	e	Sg		22:31:21.4	4.0		441.0	98.9		

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/04	06:15:55.8	+ - 0.32	51.620N	7.780E	5.6	4.4	130	1G		10	5	118	2.1ML		SZGRF	I
1997/09/04	06:15:54.0		51.647N	7.709E				1G					1.7ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	06:16:01.6	1.1	TA		38.1	233.2	ML 2.2
	e Sg N	06:16:07.8	2.9					
IBBN	e Pg Z	06:16:10.1	3.6			73.5	2.5	ML 2.1
	e Sg N	06:16:17.1	2.1					
GSH	e Pn Z	06:16:18.5	0.8			137.3	223.1	ML 2.1
	e Sg E	06:16:36.7	3.5					
TNS	e Pn Z	06:16:23.0	1.7			166.6	161.6	ML 2.0
	e Sg E	06:16:42.0	0.4					
CLZ	e Pn Z	06:16:25.1	1.6			184.7	82.2	ML 2.0
	e Sg E	06:16:47.8	1.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/04	13:11:18.4	+ - 0.71	49.360N	6.840E	10.0	4.4	65	0G		6	3	212	2.0ML	TNS	BGR	I?

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
TNS	i Pn -	13:11:43.7	-0.1			150.0	49.7	ML 2.0
	e Pg Z	13:11:43.9	-0.0	T	2.2			
	e Sg E	13:12:01.7	0.4	T				
GSH	e Pg Z	13:11:45.2	0.2	T	2.0	156.6	348.0	ML 1.9
	e Sg N	13:12:03.1	-0.1	T				
BFO	e Pg Z	13:11:45.4	0.2	T	2.0	158.1	135.9	ML 1.6
	e Sg E	13:12:03.6	-0.0	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/04	17:26:26.1	+- 0.17	47.522N	8.857E	2.1	0.8	350	2G		12	6	198	1.8ML		LEDBW	L
1997/09/04	17:26:25.9		47.527N	8.852E	1.0	1.0	0	21	+- 1.3	26	17		2.0ML		SED	

Winterthur, Frauenfeld/CH

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
SOL	i Pg +	17:26:38.0	-0.1			68.6	96.6	
	e Sg	17:26:46.3	-0.1					
SGW	i Pg +	17:26:38.1	-0.1			69.9	203.0	ML 1.8
	i Sg	17:26:46.9	0.1					
KIZ	i Pg -	17:26:40.4	-0.3			84.6	124.0	ML 1.9
	i Sg	17:26:50.6	-0.2					
END	i Pg -	17:26:40.8	-0.1			86.1	103.6	
	e Sg	17:26:51.2	-0.1					
BAW	e Pg +	17:26:41.7	-0.4			93.1	108.6	
	i Sg	17:26:52.8	-0.3					
UBR	e Pg	17:26:42.7	0.2			95.7	260.2	ML 1.9
	i Sg	17:26:54.5	0.6					
BEU	e Pg	17:26:46.8	-0.5			124.7	199.8	ML 1.7
	e Sg	17:27:01.7	-0.4					
LBG	e Sg	17:27:01.9	-0.6			126.5	178.0	ML 1.7
HDH	e Sg	17:27:09.7	-0.9			154.8	221.1	ML 1.7

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/05	22:49:54.5	+- 0.36	51.630N	7.790E	4.4	4.4	115	1G		8	4	118	2.1ML		SZGRF	I
1997/09/05	22:49:54.1	+- 0.40	51.640N	7.800E	5.6	3.3	151	0G		9	5	118	2.1ML	CLZ	BGR	I
1997/09/05	22:49:52.5		51.657N	7.724E				1G					1.9ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg + Z	22:50:00.4	1.2	TA		39.6	232.8	ML 2.1
	e Sg E	22:50:06.7	2.9					
IBBN	e Pg Z	22:50:07.0	2.2		2.5	72.3	1.8	ML 2.1
	e Sg E	22:50:15.7	2.5					
GSH	e Pg Z	22:50:17.2	1.2		7.3	138.8	223.1	ML 2.1
	e Sg N	22:50:34.8	2.6					
TNS	e Pn Z	22:50:21.7	1.8		3.7	167.4	162.1	ML 2.0
	e Sg N	22:50:41.2	0.9					
CLZ	e Pn Z	22:50:23.8	2.0		5.9	183.5	82.5	ML 2.1
	e Sg E	22:50:46.0	1.1					
MOX	i (Sg)	22:51:16.7	0.3			293.8	111.0	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/06	23:58:50.1		47.409N	6.939E				10		9	5		1.6ML		SED	
1997/09/06	23:58:51.0		47.467N	6.913E				5G			7		2.2ML	LDG	NEIC	

Montbeliard, Audincourt/F, S of Belfort

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z 23:59:15.1	-0.1		8.0	142.7	47.2	
	e Sg	E 23:59:32.1	0.3					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/09	13:50:53.8		47.544N	8.184E	2.3	2.3	0	0G		12	9		2.0ML		SED	B?

Laufenburg, N of Brugg/CH, Swiss-German border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z 13:51:09.2	0.5		2.2	88.1	187.1	
	e Sg	N 13:51:20.5	1.6					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/10	22:12:40.6		47.182N	8.884E				5G			8		2.3ML	STR	NEIC	
Less reliable solution																
1997/09/10	22:12:34.7	+/- 1.51	47.000N	9.020E	16.7	6.7	11	0	+/- 0.0	6	3	289	1.5ML	BFO	BGR	L
1997/09/10	22:12:36.1		47.065N	9.147E	1.8	1.8	0	10	+/- 7.1	11	8		1.6ML		SED	

Glarus, Walenstadt/CH, Walensee

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z 22:13:01.2	-1.0		2.0	153.4	156.2	ML 1.5
	e Sg	N 22:13:19.5	-0.5					
FUR	e Sg	E 22:13:36.3	2.8			200.9	233.4	
WET	e Pn	Z 22:13:27.0	1.0		1.5	360.7	231.6	
	e Sn	E 22:14:05.2	3.2					
	e Sg	E 22:14:20.7	1.5					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/13	12:51:51.2	+/- 0.37	51.600N	7.750E	5.6	3.3	127	1G		8	5	118	2.0ML		SZGRF	I
1997/09/13	12:51:48.7		51.654N	7.725E				1G					1.8ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg	- Z 12:51:56.5	1.1	TA		39.5	233.2	ML 2.0
	e Sg	E 12:52:02.4	2.4					
IBBN	e Pg	Z 12:52:04.1	3.0			72.7	1.7	ML 1.9
	e Sg	E 12:52:13.6	4.2					
GSH	e Pg	Z 12:52:13.2	1.0			138.6	223.2	ML 2.0
	e Sg	E 12:52:30.7	2.4					

TNS	e	Sg	E	12:52:37.1	0.7				167.0	162.1							
CLZ	e	Sg	E	12:52:43.7	2.6				183.4	82.4							

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/13	13:27:10.7	+- 0.33	51.610N	7.760E	4.4	3.3	131	1G		10	5	118	2.1ML		SZGRF	I
1997/09/13	13:27:09.9	+- 0.54	51.610N	7.760E	7.8	3.3	164	1G		10	5	199	2.1ML	GSH	BGR	I
1997/09/13	13:27:08.1		51.656N	7.725E				1G					1.9ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg + Z	13:27:16.0	1.2	TA		39.6	232.9	ML 2.0
	e Sg E	13:27:21.5	2.1					
IBBN	e Pg Z	13:27:23.3	3.0			72.4	1.7	ML 2.2
	e Sg N	13:27:32.7	3.9					
GSH	e Pg Z	13:27:33.0	1.4		3.7	138.8	223.1	ML 2.1
	e Sg E	13:27:49.9	2.2					
TNS	e Pg Z	13:27:37.1	0.7		2.3	167.3	162.1	ML 2.0
	e Sg E	13:27:55.6	-0.3					
CLZ	e Pg Z	13:27:40.0	0.8		4.8	183.4	82.5	ML 2.2
	e Sg E	13:28:02.4	1.9					
MOX	e Pg Z	13:27:59.7	1.8		1.5	293.7	111.0	ML 2.2
	e Sg N	13:28:33.1	1.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/14	15:46:48.2		47.000N	11.250E				1		31	19		2.6ML		SED	
1997/09/14	15:46:47.3	+- 0.20	47.194N	11.530E	9.9	5.8	56	2	+- 0.0	24	14		2.8ML		LDG	L
1997/09/14	15:46:46.3		47.115N	11.361E				5G			28		2.7ML	VIE	NEIC	
1997/09/14	15:46:47.2	+- 4.90	47.190N	11.570E	51.0	36.0	27	10G		12	6	316	2.7ML		LEDBW	L
1997/09/14	15:46:46.6	+- 0.91	47.090N	11.530E	13.3	7.8	153	10	+- 3.1	17	6	277	3.0ML		SZGRF	L
1997/09/14	15:46:46.3	+- 0.71	47.090N	11.470E	8.9	5.6	167	0G		18	7	261	2.5ML	BFO	BGR	L

Southern Tuxer Alps/A, S of Innsbruck

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
SCE	i Pg +	15:46:48.4	-1.1			19.1	107.3	
OGA	i Pg +	15:46:52.1	-1.3			41.8	233.9	
	i Sg	15:46:56.6	-1.7					
FUR	e Pg Z	15:47:07.1	0.5	T	34.7	120.2	353.1	ML 3.1
	e Sg E	15:47:22.5	1.9	T				
UBR	e Sn	15:47:22.6	-1.0			121.8	303.1	ML 3.0
	i Sg	15:47:26.1	5.0					
BHG	e Pg	15:47:09.4	1.5			127.2	56.0	
SGW	e Pn	15:47:19.1	1.0			203.4	304.6	ML 2.7
	i Pg -	15:47:20.2	-0.6					
	e Sg	15:47:45.2	0.8					

BEU	i	Pg		15:47:23.8	-0.8				226.0	318.0	ML	2.6
	i	Sn		15:47:45.3	-0.3							
	i	Sg		15:47:50.9	0.0							
WET	e	Pn	Z	15:47:23.2	-0.8	T	21.6	251.2	24.1	ML	2.4	
	e	Sn	E	15:47:51.1	0.2	T						
GEC2	e	Sn	E	15:47:53.2	1.2	T		256.3	39.6			
	e	Sg	N	15:47:57.7	-1.9	T						
LBG	e	Pg		15:47:32.9	1.6			265.4	312.2	ML	2.7	
	e	Sg		15:48:01.6	-0.5							
BFO	e	Pn	Z	15:47:26.9	0.4	T	2.3	272.4	301.6	ML	2.5	
	e	Pg	Z	15:47:32.0	-0.5	T	4.8					
	e	Sn	N	15:47:59.8	4.4							
	e	Sg	N	15:48:03.6	-0.5	T						
HOL	e	Pg		15:47:58.0	23.9			281.8	334.8	ML	2.7	
	e	Sg		15:48:07.8	1.0							
KIZ	e	Pn		15:47:28.3	0.3			283.5	291.2	ML	2.5	
	e	Pg		15:47:35.9	1.5							
	e	Sg		15:48:07.8	0.5							
GRFO	e	Pg	Z	15:47:34.3	-1.1	T	4.8	289.8	356.4	ML	2.8	
	e	Sg	E	15:48:08.2	-0.9	T						
GRA1	e	Pg	Z	15:47:34.3	-1.2			289.9	356.5	ML	3.0	
	e	Sn	N	15:48:00.0	0.9							
	e	Sg	N	15:48:09.5	0.4							
MOX	e	Pn	Z	15:47:40.2	-1.4	T	1.9	395.4	1.5			
	e	Pg	Z	15:47:55.0	1.7	T	2.2					
	e	Sn	E	15:48:22.0	0.5	T						
	e	Sg	E	15:48:38.1	-1.1	T						
TNS	e	Pn	Z	15:47:44.2	0.5	T	3.5	413.0	328.6			
	e	Sn	E	15:48:24.8	-0.3	T						
	e	Sg	E	15:48:44.3	0.0	T						
BRG	e	Sg		15:48:48.0	-9.1			457.7	22.3			
CLL	e	Sg	N	15:49:04.0	-0.0			482.0	12.8			
CLZ	e	Sg	E	15:49:22.5	3.5			534.2	351.9			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/17	02:54:41.9	+- 0.32	51.630N	7.770E	5.6	4.4	125	1G		10	5	120	2.1ML		SZGRF	I
1997/09/17	02:54:42.5	+- 0.30	51.620N	7.730E	4.4	3.3	146	1G		13	6	123	2.1ML	GSH	BGR	I
1997/09/17	02:54:40.7		51.647N	7.709E				1G					2.0ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg + Z	02:54:48.3	1.1	TA		38.1	233.2	ML 2.1
	e Sg E	02:54:54.3	2.7					
IBBN	e Pg Z	02:54:55.3	2.1		2.1	73.5	2.5	ML 2.2
	e Sg E	02:55:03.9	2.2					

GSH	e	Pg	Z	02:55:05.1	1.1	7.7	137.3	223.1	ML	2.1
	e	Sg	E	02:55:22.5	2.6					
TNS	e	Pn	Z	02:55:09.3	1.3	3.5	166.6	161.6	ML	2.2
	e	Sg	E	02:55:28.7	0.4					
CLZ	e	Pn	N	02:55:12.1	2.0	2.3	184.7	82.2	ML	2.2
	e	Sg	E	02:55:35.7	2.2					
MOX	e	Pn	Z	02:55:25.1	1.5	0.9	294.4	110.7	ML	2.3
	e	Pg	Z	02:55:31.9	1.3					
	e	Sg	N	02:56:06.8	2.0					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/17	04:12:36.4	+- 0.20	51.568N	6.786E	11.4	8.6	43	2	+- 0.0	13	9		2.7ML		LDG	L
1997/09/17	04:12:35.1		51.505N	6.781E				10G			12		2.6ML	STR	NEIC	
ML= 2.3(DBN, UCC), Less reliable solution																
1997/09/17	04:12:34.9		51.566N	6.735E				1G					1.9ML		RUB	I

Duisburg, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	04:12:42.9	1.3	TA		39.5	110.4	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/17	19:58:20.7		49.407N	6.939E				10G			6		1.7ML	UCC	NEIC	
1997/09/17	19:58:19.6	+- 0.71	49.350N	6.770E	13.3	5.6	63	0G		8	4	215	2.1ML	TNS	BGR	I?
1997/09/17	19:58:19.9	+- 1.00	49.380N	6.850E	13.0	5.0	93	1G		16	10	221	2.1ML		LEDBW	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	i Pg	19:58:27.1	0.6	T		38.8	22.8	
ABH	i Pg +	19:58:32.3	-0.3	T		75.1	41.7	
	e Sg	19:58:41.4	0.1					
KTD	i Pg	19:58:36.1	1.0	T		89.6	93.8	
TOD	i Pg	19:58:43.4	-0.8	T		143.3	79.2	
	i Sg	19:59:01.6	0.8	T				
TNS	e Pg Z	19:58:45.0	0.0		3.0	148.0	50.1	ML 2.1
	e Sg E	19:59:03.1	0.9					
GSH	e Pg Z	19:58:46.4	0.3		1.7	154.6	347.6	ML 1.9
	e Sg N	19:59:04.5	0.4					
BFO	e Pg Z	19:58:46.4	-0.5		7.2	159.2	136.6	ML 1.8
	e Sg	19:59:05.1	-0.3	T				
LBG	e Pg	19:58:46.8	-0.6	T		162.6	118.6	ML 2.0
	e Sg	19:59:05.7	-0.7	T				
KIZ	i Pg +	19:58:49.1	-0.7	T		176.7	153.2	ML 2.2
	i Sg	19:59:09.4	-1.0	T				

FELD	i	Pg +	19:58:50.8	-0.8	T	187.5	152.7										
	i	Sg	19:59:12.7	-0.8	T												
SGW	i	Pn +	19:58:57.4	3.2		223.9	128.3	ML	2.1								
	e	Pg	19:59:00.2	2.4													
GEC2	e	Pn Z	19:59:29.2	1.1		4.0	502.0	94.2									
	e	Sn N	20:00:20.5	3.1													

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/19	01:51:02.5	+ - 1.50	49.370N	6.950E	25.0	4.0	94	1G		8	5	207	2.1ML		LEDBW	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	e Pg	01:51:09.6	0.7	T		37.7	12.0	
ABH	i Pg +	01:51:14.6	-0.0	T		71.3	36.9	
	i Sg	01:51:24.6	1.7	T				
KTD	i Pg	01:51:19.4	3.0			82.3	93.4	
TOD	i Pg	01:51:26.0	0.4			136.4	78.2	
	i Sg	01:51:43.7	2.2					
BFO	e Pg Z	01:51:28.6	0.1			153.5	138.4	
	e Sg N	01:51:46.4	0.0					
KIZ	e Pg	01:51:31.5	-0.3			172.5	155.3	ML 2.2
	e Sg	01:51:51.7	-0.1					
FELD	i Pg +	01:51:33.1	-0.5	T		183.3	154.6	
	i Sg	01:51:54.9	0.1	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/20	04:35:46.0	+ - 0.36	51.640N	7.720E	6.7	3.3	137	1G		8	4	141	2.0ML		SZGRF	I
1997/09/20	04:35:45.5	+ - 0.36	51.670N	7.700E	6.7	3.3	133	0G		8	4	139	2.0ML	GSH	BGR	I
1997/09/20	04:35:43.4		51.660N	7.740E				1G					2.0ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg + Z	04:35:51.5	1.2	TA		40.6	233.4	ML 2.0
	e Sg E	04:35:57.0	2.0					
IBBN	e Pg Z	04:35:58.0	2.4		5.9	72.0	0.9	ML 2.1
	e Sg E	04:36:05.6	1.6					
GSH	e Pg Z	04:36:08.6	1.5		2.8	139.8	223.3	ML 2.0
	e Sg E	04:36:25.7	2.4					
CLZ	e Pn Z	04:36:15.1	2.5		4.1	182.3	82.6	ML 2.1
	e Sg E	04:36:38.6	3.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/23	02:17:28.3		48.282N	8.205E				10G			11		2.0ML	STR	NEIC	
1997/09/23	02:17:28.3	+- 0.10	48.326N	8.277E	1.4	0.8	328	17	+- 1.0	29	15	126	2.1ML		LEDBW	L

Haslach/Black Forest, N of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	i Pg +	02:17:31.4	0.1	T		3.9	83.3	
	Sg	02:17:33.5	0.2	T				
SPAK	i Pg +	02:17:36.6	0.1	T		45.2	123.2	
	i Sg	02:17:42.4	0.3	T				
KIZ	i Pg +	02:17:37.1	-0.0	T		49.0	213.1	ML 2.2
	i Sg	02:17:43.1	-0.0	T				
LBG	i Pg +	02:17:37.7	-0.1	T		53.5	45.2	ML 2.1
	i Sg	02:17:44.2	-0.1	T				
LIBD	i Pg -	02:17:38.8	0.9	T		53.6	248.9	
	e Sg	02:17:45.3	0.9	T				
FELD	i Pg -	02:17:38.0	0.1	T		54.0	202.2	
	i Sg	02:17:44.7	0.3	T				
BHB	i Pg +	02:17:38.1	0.1	T		54.5	99.0	
	i Sg	02:17:44.8	0.2	T				
HSN	e Pg +	02:17:40.2	0.1	T		67.8	91.7	
	e Sg	02:17:48.5	0.2	T				
SGW	i Pg +	02:17:41.1	-0.1	T		73.7	109.0	ML 2.1
	i Sg	02:17:50.0	0.1	T				
END	e Pn +	02:17:41.3	-1.8	T		78.9	210.8	
	i Sg	02:17:51.4	0.0	T				
SOL	e Pg -	02:17:42.7	-0.2	T		84.3	197.2	
	e Sg	02:17:52.8	-0.1	T				
BEU	i Pg -	02:17:43.5	-0.2	T		88.7	70.7	ML 1.6
	i Sg	02:17:54.3	0.1	T				
BBS	i Sg	02:18:00.6	-0.0	T		111.6	211.1	
HDH	e Sg	02:18:09.4	-0.7			145.2	77.9	ML 1.6
UBR	e Sg	02:18:12.2	-0.3			153.9	117.1	ML 1.8
HOL	e Sg	02:18:12.9	-1.9			161.6	43.4	ML 2.1
GRFO	e Sg N	02:18:41.7	-1.9			262.9	53.6	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/25	18:20:22.7		47.484N	12.819E				5G			5		2.4ML	VIE	NEIC	
	Less reliable solution															
1997/09/25	18:20:17.5	+- 1.16	46.760N	13.450E	22.2	14.5	174	10G		9	6	291	2.6ML	FUR	BGR	L?

Austria

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FUR	e Sg E	18:21:21.7	-0.4	T	2.3	225.9	314.5	ML 2.6

GEC2	e	Pn	Z	18:20:52.5	0.7	T	1.1	232.6	4.5									
	e	Pg	Z	18:20:54.6	-2.4	T	7.1											
	e	Sg	N	18:21:21.5	-2.6	T	1.9											
WET	e	Pn	Z	18:20:56.6	0.4	T	7.5	268.5	351.1	ML	2.1							
	e	Sn	N	18:21:27.4	3.5	T												
GRFO	e	Sg	E	18:22:04.4	2.4	T	1.4	365.3	333.9									
BFO	e	Sg	N	18:22:17.0	-1.1	T	2.0	422.0	296.3									
MOX	e	Sg	E	18:22:26.6	-0.2	T	1.5	452.4	343.4	ML	2.6							

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/26	12:57:36.4	+ - 0.54	51.600N	7.750E	8.9	4.4	160	1G		8	4	198	2.1ML	GSH	BGR	I?
1997/09/26	12:57:34.2		51.647N	7.709E				1G					2.1ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg	Z 12:57:41.8	1.1	TA		38.1	233.2	ML 2.1
	e Sg	E 12:57:47.6	2.6					
GSH	e Pg	Z 12:57:59.0	1.5		3.1	137.3	223.1	ML 2.1
	e Sg	E 12:58:16.0	2.5					
TNS	e Pn	Z 12:58:03.0	1.6		2.1	166.6	161.6	ML 2.0
	e Sg	E 12:58:22.0	0.2					
CLZ	e Pn	Z 12:58:05.4	1.7		2.9	184.7	82.2	ML 2.2
	e Sg	E 12:58:29.1	2.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/26	20:12:23.8		48.421N	5.762E				10G			30		2.4ML	STR	NEIC	
1997/09/26	20:12:25.5	+ - 1.34	48.570N	5.980E	16.7	6.7	57	0G		5	3	268	1.6ML	BFO	BGR	L
1997/09/26	20:12:27.6	+ - 3.00	48.500N	6.130E	27.0	21.0	53	10G		13	8	305	2.1ML		LEDBW	L
1997/09/26	20:12:24.0	+ - 0.20	48.495N	5.886E	2.8	2.5	22	8	+ - 0.0	44	17		2.7ML		LDG	L

Autreville, NE of Neufchateau/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
KIZ	e Pn	20:12:51.5	1.7			162.0	110.9	ML 2.2
	e Sn	20:13:05.4	-2.8					
	e Sg	20:13:10.5	0.2					
BBS	i Pg	20:12:52.8	0.6			166.5	132.9	
	i Sg	20:13:11.6	-0.1					
FELD	i Sg	20:13:13.3	0.3			171.4	112.9	
BFO	e Pn	Z 20:12:54.6	2.4		2.9	181.3	94.9	ML 1.6
	e Sg	N 20:13:15.2	-0.7					
LBG	e Pg	20:13:00.1	-0.3			214.8	83.9	ML 1.9
	e Sg	20:13:25.3	-0.1					

SGW	e	Pg		20:13:06.2	-0.2				250.0	98.7	ML	2.1
	e	Sg		20:13:35.9	0.4							
GSH	e	Sn	E	20:13:27.6	0.4				251.8	7.9		
	e	Sg	E	20:13:34.7	-1.3							
BEU	e	Pg		20:13:08.5	0.4				260.0	86.5	ML	1.9
	e	Sg		20:13:38.2	-0.2							
TNS	e	Sg	N	20:13:39.4	-0.9				267.0	43.0	ML	2.2
HOL	e	Sg		20:13:51.1	0.6				302.8	69.8	ML	2.1

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/28	02:58:12.6		51.366N	6.368E				10G			49		3.4ML	STR	NEIC	
	ML= 3.1(UCC), ML= 2.9(DBN)															
1997/09/28	02:58:15.7	+/- 1.00	51.315N	6.376E	4.3	3.3	13	6	+/- 0.0	61	24		3.3ML		LDG	L
1997/09/28	02:58:19.0	+/- 3.30	51.240N	6.730E	43.0	16.0	339	10G		13	12	320	2.6ML		LEDBW	L
1997/09/28	02:58:14.4	+/- 0.52	51.420N	6.590E	6.7	3.3	115	1	+/- 3.1	18	8	207	2.8ML		SZGRF	L
1997/09/28	02:58:14.1	+/- 0.54	51.440N	6.570E	6.7	3.3	119	1G		18	8	209	2.8ML	TNS	BGR	I
1997/09/28	02:58:11.2		51.476N	6.485E				1G					2.5ML		RUB	I

Moers, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	02:58:22.1	1.7	TA		54.5	93.8	ML 2.6
	e Sg N	02:58:29.4	2.7					
GSH	e Pg Z	02:58:26.6	1.5			82.5	185.3	ML 2.6
	e Sg E	02:58:36.9	2.1					
IBBN	e Pg Z	02:58:35.2	2.4			127.1	42.8	ML 3.0
	e Sg E	02:58:50.7	3.2					
ABH	i Pn -	02:58:42.9	1.3			192.4	156.7	
TNS	e Pn Z	02:58:43.5	1.5		5.6	195.9	134.6	ML 2.8
	e Pg Z	02:58:45.8	1.4					
	e Sg N	02:59:07.4	0.2					
RUP	i Pn	02:58:45.6	2.9			201.4	168.2	
TOD	i Pn +	02:58:52.5	2.1			264.7	140.9	
	i Pg	02:58:58.6	2.5					
CLZ	e Pg Z	02:58:58.5	1.4			271.2	79.8	ML 3.0
	e Sg N	02:59:29.3	0.6					
HOL	i Pn +	02:59:00.8	2.1			332.0	133.5	ML 2.7
	e Sg	02:59:35.7	-10.4					
LBG	i Pn +	02:59:03.3	2.1			353.4	151.3	ML 2.7
MOX	e Pn Z	02:59:06.0	2.7		4.5	370.2	102.4	ML 2.9
	e Pg Z	02:59:15.9	2.0					
	e Sg E	02:59:57.6	0.7					
BFO	e Pn Z	02:59:05.5	1.7		11.5	373.8	158.6	ML 2.7
	e Pg Z	02:59:17.3	2.8					
	e Sn E	02:59:43.7	2.1					
	e Sg E	02:59:59.9	1.9					

BEU	i	Pn	-	02:59:07.7	2.7				383.6	145.8	ML	2.6
GRFO	e	Pn	Z	02:59:08.4	2.8	4.3			388.7	118.8	ML	3.2
	e	Pg	Z	02:59:20.3	3.2							
	e	Sg	E	03:00:07.1	4.8							
GRA1	e	Pn	Z	02:59:08.5	2.9				388.7	118.8	ML	3.2
	e	Sg	E	03:00:02.7	0.4							
KIZ	i	Pn	+	02:59:08.9	1.4				404.6	164.7	ML	2.5
FELD	i	Pn	+	02:59:10.5	1.8				414.8	164.1		
SGW	i	Pn	+	02:59:12.0	2.3				422.7	151.3	ML	2.5
	e	Sg		02:59:56.9	-15.0							
CLL	e	Pg	Z	02:59:28.7	0.8				452.5	89.8	ML	3.1
	e	Sg	E	03:00:19.9	-0.6							
UBR	i	Pn	-	02:59:22.3	3.7				496.1	146.8	ML	2.5
FUR	e	Sg	E	03:00:37.7	2.6				503.6	135.1	ML	3.6
WET	e	Pn	Z	02:59:24.2	2.3	2.6			522.5	117.2	ML	3.2
	e	Pg	Z	02:59:42.8	3.1							
	e	Sg	N	03:00:41.4	0.9							
BRG	e	Sg	N	03:00:42.0	1.1				524.0	94.4	ML	3.2
GEC2	e	Pn	Z	02:59:34.7	4.5	3.8			591.1	116.8		
	e	Pg	Z	02:59:54.1	2.7							
	e	Sg	N	03:01:00.9	0.8							

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/29	17:27:18.6	+-	0.87	51.670N	7.830E	18.9	5.6	158	0G		6	4	205	2.0ML	GSH	BGR	I?
1997/09/29	17:27:19.7	+-	0.38	51.640N	7.770E	6.7	4.4	151	1G		10	5	121	1.9ML		SZGRF	I
1997/09/29	17:27:18.0			51.663N	7.744E				1G					1.9ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	17:27:26.2	1.2	TA		41.0	233.2	ML 1.9
	e Sg E	17:27:32.3	2.6					
IBBN	e Pg Z	17:27:32.7	2.6			71.7	0.7	
GSH	e Pg Z	17:27:42.8	1.0			140.2	223.3	ML 2.0
	e Sg E	17:28:00.6	2.5					
TNS	e Pn Z	17:27:47.3	1.9			167.6	162.6	
	e Sg E	17:28:07.3	1.5					
CLZ	e Pn Z	17:27:48.5	1.4			182.0	82.7	
	e Sg N	17:28:11.8	1.8					

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/30	06:37:01.5			47.831N	5.342E				5G			6		2.3ML	LDG	NEIC	

A single network solution

Langres/Haute-Marne/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1997/09/30	07:58:55.0		49.224N	6.929E				10G			11		2.9ML	DBN	NEIC	I
Mining induced event in the Lorraine region, France																
1997/09/30	07:58:53.1	+ - 0.82	49.180N	6.740E	13.3	5.6	64	0G		6	3	223	2.7ML	BFO	BGR	I?
1997/09/30	07:58:54.0	+ - 0.63	49.170N	6.810E	7.8	4.4	61	1G		10	5	220	2.9ML		SZGRF	I
1997/09/30	07:58:54.9	+ - 1.60	49.180N	6.880E	25.0	6.0	71	1G		18	10	191	2.8ML		LEDBW	I

Merlebach/F, SW of Saarbruecken, French-German border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	i Pg +	07:59:05.1	0.1	T		59.4	12.5	
	e Sg	07:59:13.2	1.3	T				
KTD	e Pg	07:59:10.1	0.1	T		88.7	79.4	
	e Sg	07:59:21.4	1.1	T				
ABH	e Pn	07:59:09.7	-3.3	T		91.7	31.4	
BFO	e Pn Z	07:59:18.8	-0.4			142.2	131.1	ML 2.6
	i Pg -	07:59:19.5	0.5	T				
	i Sg	07:59:35.7	0.2	T				
TOD	e Pn	07:59:17.4	-2.4	T		147.0	70.5	
	e Sg	07:59:37.0	0.1	T				
LBG	e Pg	07:59:21.1	0.6	T		151.2	111.6	ML 2.8
	e Sg	07:59:38.1	0.0	T				
KIZ	e Pg +	07:59:20.6	-0.7	T		156.0	150.3	ML 2.7
	e Sg	07:59:38.0	-1.4	T				
TNS	e Pn Z	07:59:21.6	0.1			161.7	43.6	ML 2.9
	e Sg N	07:59:41.8	0.7					
FELD	e Pg	07:59:22.3	-0.9	T		166.9	149.9	
	e Sg	07:59:41.5	-1.1	T				
GSH	e Pn Z	07:59:23.2	-0.2			176.8	348.5	ML 2.6
	e Sg N	07:59:44.1	-1.3					
SPAK	e Sg	07:59:49.2	1.6			184.3	129.8	
BBS	e Pg	07:59:30.5	2.3			196.3	166.1	
SGW	e Pg	07:59:31.2	0.9	T		209.0	123.9	ML 3.0
	e Sg	07:59:54.0	-0.6	T				
HOL	e Pg	07:59:29.6	-1.5			213.7	83.2	ML 2.7
UBR	e Sg	08:00:19.5	1.5			290.7	123.8	ML 2.9
GRFO	e Pn Z	07:59:42.5	1.8			318.9	78.1	ML 3.1
	e Sg N	08:00:26.1	0.1					
IBBN	e Pg Z	07:59:51.0	-3.8			353.1	9.7	ML 3.3
	e Sg N	08:00:35.4	-0.4					
CLL	e Sg	08:01:17.0	0.6			495.3	59.1	
BRG	e Sg	08:01:35.2	6.5			538.2	66.9	

Unassociated arrivals

Sta	Phase	Date	Time	TRes	Def	S/N	Dist	EvAz	Mag
CLL	i Sg	1997/09/02	00:36:46.2						
CLL	e Sg	1997/09/02	14:55:17.0						
BRG	e Sg	1997/09/03	17:34:57.2						
BRG	e Sg	1997/09/03	19:19:23.9						
BRG	e Sg	1997/09/04	20:56:06.4						
BRG	e Sg	1997/09/04	22:47:44.4						
MOX	i (Sg)	1997/09/05	04:37:15.1						
BRG	e Sg	1997/09/05	19:24:07.2						
MOX	e (Sg)	1997/09/06	09:46:05.7						
BRG	e Sg	1997/09/08	07:51:51.9						
BRG	e Sg	1997/09/09	10:38:05.4						
CLL	e (Sg)	1997/09/09	19:59:27.0						
CLL	e Sg	1997/09/10	13:05:59.0						
MOX	i (Sg)	1997/09/10	18:57:38.2						
BRG	e Sg	1997/09/16	03:01:44.7						
BRG	e Sg	1997/09/17	14:05:49.0						
TNS	i Pn +	1997/09/22	04:38:18.1						
TNS	e Sg -	1997/09/22	04:38:35.9						
OGA	i Pn +	1997/09/22	05:38:12.4						
CLL	i (Sn)	1997/09/26	09:44:07.0						
CLL	e (Sg)	1997/09/26	10:54:41.0						