

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/01	00:37:36.3	+ - 0.26	48.133N	7.532E	4.6	3.2	90	13G		36		222	2.5ML		LDG	L
1998/12/01	00:37:34.9		48.065N	7.554E				10G			33		2.2ML	FBB	NEIC	
ML= 2.0(STR)																
1998/12/01	00:37:35.1		48.133N	7.640E				10		23	16		2.1ML		SED	
1998/12/01	00:37:34.6		48.110N	7.660E				10G		13	8	240	2.4ML	TNS	BGR	L
1998/12/01	00:37:35.2		48.108N	7.649E				11		43	24	54	2.3ML		LEDBW	L

Breisach/Upper Rhine Graben, W of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
LIBD	i Pg +	00:37:37.8	0.5	T		5.8	324.2	
	Sg	00:37:39.7	1.0	T				
FBB	Pg	00:37:39.0	0.1	T		19.2	127.9	
	Sg	00:37:42.1	0.6	T				
BAW	e Pg -	00:37:41.3	0.0	T		34.4	176.5	
	Sg	00:37:45.6	0.1	T				
FELD	i Pg -	00:37:41.7	0.0	T		36.9	134.1	
	Sg	00:37:46.4	0.2	T				
BFO	e Pg +	00:37:44.8	-0.1	T		56.1	63.7	ML 1.7
	Sg	00:37:51.7	0.2	T				
BBS	e Pg -	00:37:47.8	0.2	T		72.3	188.4	
	Sg	00:37:56.5	0.4	T				
SPAK	i Pg +	00:37:49.8	0.2	T		84.4	90.0	
	Sg	00:37:59.7	0.2	T				
LBG	Pg	00:37:52.9	-0.2	T		104.8	53.4	ML 2.2
	Sg	00:38:05.4	0.1	T				
MSG	e Pn +	00:37:52.4	-1.6	T		107.6	72.0	
	Pg	00:37:53.6	0.1	T				
	Sn	00:38:05.1	-2.3	T				
	Sg	00:38:06.8	0.7	T				
GUT	e Pn	00:37:53.7	-0.6	T		109.0	91.6	ML 2.4
KTD	Sg	00:38:15.1	0.3	T		138.5	13.1	
BEU	e Pn -	00:37:56.5	-1.6	T		140.8	67.3	ML 2.5
	i Pg -	00:37:59.2	0.1	T				
	Sg	00:38:15.7	0.1	T				
RUP	Pg	00:38:06.1	-0.1	T		182.4	346.6	
TOD	Pg	00:38:06.7	-0.1	T		186.7	26.5	
UBR	Pg	00:38:07.7	0.4	T		189.4	103.6	ML 2.2
	Sg	00:38:30.2	0.8	T				
HDH	Pg	00:38:08.5	-0.0	T		196.3	73.4	ML 2.3
	Sn	00:38:30.2	4.1					
	Sg	00:38:31.6	0.3	T				
ABH	Pg	00:38:07.9	-0.8	T		197.4	357.9	
SIND	Pg	00:38:08.4	-0.5			199.1	45.4	ML 2.2
	Sn	00:38:24.9	-1.8					
	Sg	00:38:31.6	-0.6	T				
WLF	e Pg Z	00:38:09.5	-0.4		1.5	204.8	328.3	
	e Sg N	00:38:32.6	-1.1					

TNS	e	Pg	Z	00:38:15.6	-0.7	1.2	242.2	13.6	ML	2.4
	e	Sg	E	00:38:44.0	-0.4					
FUR	e	Sg	N	00:38:52.1	0.0		269.1	87.3	ML	2.9
GRFO	e	Pg	Z	00:38:28.3	-0.3	1.9	314.8	54.7		
	e	Sg	N	00:39:03.3	-1.9					
WET	e	Pg	Z	00:38:42.5	-0.7	1.1	401.1	71.4		
	e	Sg	E	00:39:27.5	-2.3					
MOX	e	Sg	E	00:39:30.8	0.7		402.4	44.0		
GEC2	e	Sg	N	00:39:43.8	-1.0		453.5	77.3		

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/02	04:09:27.4	+- 0.88	51.540N	6.870E	14.5	6.7	147	1G		9	4	239	2.1ML		SZGRF	I
1998/12/02	04:09:26.5	+- 0.79	51.430N	6.910E	13.3	4.4	141	1G		10	5	231	2.1ML	TNS	BGR	I
1998/12/02	04:09:24.8		51.506N	6.821E				1G					1.7ML		RUB	I

Duisburg, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	04:09:31.2	1.0	TA		31.9	103.0	ML 1.7
	e Sg N	04:09:33.5	-0.4					
GSH	e Pg Z	04:09:41.0	0.8		4.0	90.9	200.1	ML 1.9
	e Sg Z	04:09:52.7	1.9					
TNS	e Pg Z	04:09:55.9	0.1		2.7	182.7	140.7	ML 2.1
	e Sg N	04:10:15.7	-1.3					
WLF	e Pg Z	04:10:00.6	0.2		1.4	210.1	193.2	
	e Sg N	04:10:22.8	-2.0					
CLZ	e Pg Z	04:10:06.6	-0.2		2.9	247.7	79.9	ML 2.4
	e Sg E	04:10:36.7	1.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/03	14:05:45.3		47.591N	13.305E				5G			7		2.3ML	VIE	NEIC	

N of Bischofshofen/A, Tennengebirge

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BHG	i Pg +	14:05:49.9	-1.4			35.1	294.6	
GRFO	e Sg N	14:07:05.0	-0.1			279.2	327.5	
BFO	e Sg N	14:07:35.9	2.2			379.4	284.3	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/03	14:46:03.6		47.277N	8.614E				10G			13		2.2ML	FBB	NEIC	
													ML= 2.1(STR)			
1998/12/03	14:46:02.2	+- 2.40	47.240N	8.520E	23.0	16.0	50	10G		7	2	318	2.2ML		LEDBW	L
1998/12/03	14:46:03.8		47.248N	8.595E	0.8	0.8	0	28	+- 1.3	17	10	54	2.2ML		SED	

S of Zuerich/CH, Zuerichsee

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GUT	e Pg -	14:46:19.3	-2.0			99.4	22.9	ML 2.4
	e PmP+	14:46:21.0	-0.5					
	e Sg	14:46:31.1	-2.2					
	e SmS	14:46:33.1	-0.5					
BFO	e Pg Z	14:46:24.4	-0.6		2.2	121.9	350.7	
	e Sg N	14:46:38.9	-0.7					
UBR	e Pn +	14:46:23.2	0.6			123.5	66.5	ML 2.2
	e Pg +	14:46:25.1	-0.1					
	Sn	14:46:36.4	0.4					
	e Sg	14:46:40.5	0.6					
BEU	Sg	14:46:49.6	-0.8			160.6	22.1	ML 2.3
HDH	Sg	14:46:57.5	-1.5			191.1	38.4	ML 2.2
SIND	Sg	14:47:10.5	-3.8			245.3	17.4	ML 2.2

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/05	22:26:08.8		51.270N	10.670E				1G		14	7	107	2.7ML		SZGRF	I
1998/12/05	22:26:08.3		51.270N	10.640E				1G		30	13	91	2.6ML	TNS	BGR	I

Muehlhausen, Bleicherode

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
CLZ	e Pg Z	22:26:19.1	-0.4	T	250.2	66.2	343.9	ML 2.7
	e Sg E	22:26:25.9	-1.3	T				
MOX	e Pg Z	22:26:24.6	-0.2	T	85.5	97.5	135.1	ML 2.6
	e Sg Z	22:26:37.0	0.8	T				
HOF	i Pg +	22:26:31.0	-0.6			137.4	140.2	
	i Sg	22:26:49.0	1.4					
CLL	e Pg Z	22:26:34.8	-1.4	T	34.6	164.3	87.6	ML 3.1
	e Sg E	22:26:54.8	-0.5	T				
GRA1	e Pg Z	22:26:38.7	-0.1			180.2	166.6	ML 2.6
	e Sg Z	22:27:00.4	0.6					
GRFO	e Pn Z	22:26:36.7	-0.6	T	2.7	180.3	166.6	ML 2.5
	e Pg Z	22:26:38.7	-0.2	T	18.2			
TNS	e Sg E	22:27:00.4	0.6	T				
	e Pn Z	22:26:38.7	-0.1	T	1.5	193.3	233.8	ML 2.6
	e Pg Z	22:26:40.9	-0.2	T	5.9			
BUG	e Sg N	22:27:02.7	-0.8	T				
	e Pg Z	22:26:47.5	-0.6	T	2.5	234.8	275.9	ML 2.7
	e Sn N	22:27:10.2	1.0	T				
BRG	e Sg N	22:27:16.1	0.8	T				
	e Pn Z	22:26:45.8	1.9	T	2.3	234.9	99.5	ML 2.5
	e Pg Z	22:26:49.6	1.5	T	10.7			
BSEG	e Sg E	22:27:14.2	-1.2	T				
	e Sg N	22:27:35.7	2.5	T		297.2	355.9	

GSH	e	Sg	N	22:27:34.7	-0.4	T		304.1	260.4	ML	2.8
GEC2	e	Pn	Z	22:26:58.0	0.4	T	2.5	347.0	139.8	ML	2.8
	e	Pg	Z	22:27:06.5	-0.6	T	5.0				
	e	Sg	E	22:27:47.9	0.5	T					
FUR	e	Pn	Z	22:26:57.2	-0.6	T	1.4	348.5	172.2		
	e	Pg	Z	22:27:07.8	0.4	T	2.5				
	e	Sg	E	22:27:48.0	0.2	T					
WLF	e	Sg	E	22:27:52.2	-0.2	T		364.2	242.4		
BFO	e	Pn	Z	22:26:58.7	-1.2	T	1.7	366.5	207.8	ML	2.9
	e	Pg	Z	22:27:11.8	1.4	T	2.5				
	e	Sg	N	22:27:52.8	-0.2	T					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/06	22:59:47.6	+- 0.38	48.900N	9.540E	4.4	3.3	160	10G		8	6	112	2.0ML	GRFO	BGR	L
1998/12/06	22:59:48.8	+- 0.12	48.846N	9.597E	1.5	1.0	104	13	+- 2.1	28	16	122	2.0ML		LEDBW	L

Backnang, NE of Stuttgart

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BEU	i Pg -	22:59:54.7	0.0	T		32.1	204.6	ML 1.8
	PmP	22:59:56.8	-1.6	T				
	i Sg	22:59:58.9	0.3	T				
HDH	i Pg +	22:59:58.1	0.0	T		53.4	122.8	ML 2.1
	PmP	22:60:00.0	-0.9	T				
	i Sg	23:00:04.6	0.1	T				
	SmS	23:00:07.7	-1.5	T				
SIND	i Pg -	22:59:58.6	0.1	T		55.9	0.7	ML 1.4
	i Sg	23:00:05.1	-0.1	T				
	SmS	23:00:07.5	-2.1	T				
LBG	e Pg +	22:59:59.5	-0.0	T		62.2	251.3	ML 1.8
	Sg	23:00:06.8	-0.1	T				
MSG	e Pg -	23:00:00.1	0.1	T		64.6	219.9	
	e Sg	23:00:07.8	0.2	T				
GUT	e P -	23:00:04.7		T		93.2	202.6	ML 2.0
	S	23:00:16.2		T				
SPAK	Sg	23:00:18.5	0.3	T		102.0	216.2	
TOD	Sg	23:00:18.4	0.2	T		102.2	326.0	
BFO	e Pg Z	23:00:06.3	-1.1		3.4	109.5	238.9	ML 1.6
	e Sg E	23:00:19.1	-1.2					
UBR	e Pg +	23:00:12.1	0.4	T		135.0	163.5	ML 2.0
	Sg	23:00:28.2	0.6	T				
FUR	e Sg N	23:00:30.9	0.5			145.1	120.9	ML 2.2
GRFO	e Sg N	23:00:31.1	-0.9			150.6	50.8	ML 2.0
FELD	i Sg	23:00:33.7	-0.8	T		159.6	228.1	
TNS	e Sg N	23:00:35.0	-3.7			174.1	332.0	
ABH	Pg	23:00:20.7	0.0	T		187.8	308.6	
	Sg	23:00:42.6	0.0	T				

BBS		Sg		23:00:51.3	0.1	T		218.1	226.0
MOX	e	Sg	N	23:00:58.2	-1.3			247.0	35.2
GEC2	e	Pg	Z	23:00:39.8	0.0		1.5	300.3	88.5
	e	Sg	E	23:01:14.0	-0.7				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/10	03:24:31.9		48.466N	13.923E				5G			14		3.1ML	VIE	NEIC	
	ML= 2.7(GRF), ML= 2.5(FUR), Intensity = V (MSK) at Neufelden															
1998/12/10	03:24:35.8	+ - 1.11	48.600N	13.860E	11.1	5.6	138	10G		11	6	266	2.5ML		SZGRF	L
1998/12/10	03:24:34.9	+ - 0.58	48.570N	13.900E	6.7	3.3	123	10G		22	9	257	2.8ML	FUR	BGR	L

Untergriesbach, NW of Linz/A, German-Austrian border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GEC2	e Pg Z	03:24:40.1	-0.9	T	27.9	33.9	334.6	ML 1.9
	e Sg N	03:24:45.9	0.8	T				
WET	i Pg +	03:24:50.6	-1.1			98.3	310.9	
	i Sg	03:25:03.6	0.4					
BHG	i Pg +	03:24:54.2	-1.3			121.0	219.1	
	i Sg	03:25:07.1	-2.5					
FUR	e Pn Z	03:25:03.9	-1.2	T	2.5	199.1	257.8	ML 2.8
	e Sg E	03:25:31.0	-0.9	T				
GRA1	e Pg Z	03:25:13.0	-1.2			231.3	303.6	ML 2.7
	e Sg E	03:25:41.8	0.7					
GRFO	e Pn Z	03:25:09.3	0.3	T	1.3	231.4	303.6	ML 2.7
	e Pg Z	03:25:13.9	-0.3	T	5.2			
	e Sg E	03:25:41.2	0.1	T				
HOF	e Pn	03:25:15.1	4.7			242.8	323.7	
BRG	e Pn Z	03:25:12.3	0.2	T	3.2	256.1	0.7	ML 2.5
	e Pg Z	03:25:16.4	-2.0					
	e Sg E	03:25:46.9	-1.2	T				
MOX	e Pn Z	03:25:16.4	1.0	T	2.6	283.4	325.4	ML 2.8
	e Pg E	03:25:22.6	-0.4	T	3.3			
	e Sg E	03:25:55.5	-0.5	T				
CLL	e Pn Z	03:25:19.3	0.5	T	2.3	311.1	348.4	ML 3.0
	e Pg Z	03:25:27.1	-0.6	T				
	e Sg N	03:26:02.8	-1.1	T				
BFO	e Pn Z	03:25:30.5	-0.5	T	3.2	411.6	268.4	
	e Pg Z	03:25:45.2	0.5	T				
	e Sn E	03:26:12.3	0.8	T				
	e Sg N	03:26:31.7	-0.9	T				
TNS	e Pn Z	03:25:35.0	1.1	T	1.8	435.1	297.0	
	e Sg N	03:26:40.3	1.0	T				
CLZ	e Sg E	03:26:41.6	0.4	T		441.9	326.7	ML 3.2

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/10	12:12:58.7	+- 0.53	49.150N	6.860E	8.9	4.4	44	1G		6	3	188	1.8ML	BFO	BGR	I
1998/12/10	12:12:58.7	+- 0.80	49.150N	6.920E	23.0	3.0	84	1G		8	7	196	2.3ML		LEDBW	I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	e Pg -	12:13:09.5	0.2	T		62.2	9.3	
WLF	e Pg Z	12:13:12.0	-0.2		4.0	79.7	316.1	
	e Sg E	12:13:20.9	-0.6					
ABH	Pg	12:13:14.8	0.3	T		93.1	28.9	
BFO	e Pg Z	12:13:22.9	0.9		4.7	137.8	130.9	ML 1.8
	e Sg N	12:13:39.0	0.9					
LBG	Sg	12:13:43.1	2.4			147.3	110.8	ML 2.0
TNS	e Pg Z	12:13:25.8	-0.4		3.7	162.1	42.1	
	e Sg N	12:13:46.7	1.7					
FELD	Pg	12:13:26.5	0.3	T		162.6	150.2	
	Sg	12:13:46.5	1.3	T				
GUT	Sg	12:13:57.0	0.9	T		201.1	125.8	ML 2.3

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/10	20:03:37.9		47.550N	6.090E				10G		5	4	299	2.0ML	BFO	BGR	L
	ML= 2.5(STR)															
1998/12/10	20:03:35.1		47.490N	5.940E				10G		22	14	294	2.3ML		LEDBW	L
1998/12/10	20:03:35.0	+- 0.11	47.452N	5.960E	2.3	1.9	132	13G		49		105	2.7ML		LDG	L

NE of Gray, SW of Vesoul/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BBS	Pn	20:03:53.6	-1.1			116.5	88.8	
	Pg	20:03:54.6	-0.2					
	Sg	20:04:08.9	0.4					
BAW	e Pn -	20:03:55.2	-1.7			134.3	72.7	
	e Pg -	20:03:57.9	0.0					
	e Sn	20:04:10.7	-1.7					
	e Sg	20:04:13.8	0.3					
FELD	e Sg	20:04:20.1	-0.8			160.1	72.1	
BFO	e Pg Z	20:04:09.9	0.6		2.4	201.8	60.2	ML 2.0
	e Sg E	20:04:32.1	-0.7					
GUT	Sn	20:04:34.4	-1.6			245.6	72.6	ML 2.3
	Sg	20:04:45.3	0.1					
WLF	e Sg N	20:04:45.0	-0.5			246.4	3.2	
LBG	Sg	20:04:46.3	-0.2			250.0	56.4	ML 2.3
KTD	Sg	20:04:49.9	0.5			260.2	36.3	
BEU	Pg	20:04:23.8	0.3			286.1	62.6	ML 2.2
	Sg	20:04:56.3	-0.5					

TOD		Sg		20:05:04.8	-1.2				318.0	40.1							
TNS	e	Sg	E	20:05:16.3	-1.0				357.7	29.7				ML	2.9		
GRFO	e	Sg	N	20:05:45.1	-1.3				460.0	55.3							

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/11	01:13:27.7	+ - 0.15	47.347N	6.749E	3.6	2.2	101	3G		28		161	2.2ML		LDG	L

S of Montbeliard/F, Doubs Valley, French-Swiss border region

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/11	03:45:30.7	+ - 0.45	50.263N	10.579E	11.9	6.8	147	12G		25		312	3.0ML		LDG	L
1998/12/11	03:45:31.1		50.153N	10.381E				10G			20		2.9ML	STR	NEIC	
1998/12/11	03:45:32.2		50.270N	10.410E				7		18	7	285	2.8ML		LEDBW	L
1998/12/11	03:45:32.3		50.240N	10.470E				22		17	9	87	2.3ML	MOX	BGR	L
1998/12/11	03:45:32.5		50.240N	10.490E				10G		16	8	87	2.5ML		SZGRF	L

Koenigshofen i. Gr.

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GRA1	e Pg	Z 03:45:46.4	0.2	T		80.3	139.0	ML 2.1
	e Sg	E 03:45:56.3	0.6	T				
GRFO	e Pg	Z 03:45:46.6	0.4		8.5	80.4	139.2	ML 2.0
	e Sg	E 03:45:56.3	0.6					
MOX	e Pg	Z 03:45:47.6	-0.5	T		91.5	60.1	ML 2.3
	e Sg	N 03:45:59.0	0.2	T				
HOF	e Pg	03:45:49.0	-0.4			98.9	84.7	
	i Sg	03:46:01.7	0.8					
SIND	e Pn +	03:45:51.5	-1.3			117.7	213.0	ML 3.0
	e Pg	03:45:52.3	-0.2					
	e PmP	03:45:52.6	-1.6					
	e Sn	03:46:05.8	-1.2					
	e Sg	03:46:07.0	0.7					
	e SmS	03:46:07.4	-1.7					
GRB1	e Pg	Z 03:45:53.8	-0.1	T		125.9	138.1	ML 2.8
	e Sg	N 03:46:08.9	0.3	T				
ROTZ	i Pg -	03:45:54.7	-0.5			133.6	112.5	ML 2.6
	i Sg	03:46:10.6	-0.2					
TOD	e Pn +	03:45:53.9	-1.6			139.8	240.3	
	e PmP	03:45:55.5	-2.2					
	e Sg	03:46:11.9	-0.6					
TNS	e Pg	Z 03:45:56.8	-0.4	T		145.3	270.0	ML 2.5
	e Sg	N 03:46:13.6	-0.6	T				

CLZ	e	Pg	Z	03:46:01.6	-1.2	T												
	e	Sg	N	03:46:23.1	-0.5	T												
HDH		Pn		03:45:59.9	-1.1													
	e	Pg		03:46:03.4	-0.5													
	e	Sg		03:46:24.7	-0.9													
BEU		Pn		03:46:01.2	-1.5													
	e	Pg		03:46:05.7	-0.7													
		Sn		03:46:22.4	-2.0													
	e	Sg		03:46:28.1	-1.6													
WET	e	Pg	Z	03:46:07.9	-0.3		6.7		210.6		124.4							
	e	Sg	Z	03:46:31.0	-1.8													
CLL	e	Pg	Z	03:46:07.4	-1.2	T			212.8		55.1							
	e	Sg	E	03:46:32.7	-0.7	T												
ABH	e	Pn	+	03:46:04.7	0.2				213.8		260.4							
	e	Pg		03:46:09.5	0.7													
LBG		Pn		03:46:02.6	-1.9				213.8		215.6							
	e	Pg		03:46:08.3	-0.5													
	e	Sg		03:46:31.9	-1.8													
RUP		Pg		03:46:14.7	-0.6					252.5	257.6							
BRG	e	Pg	Z	03:46:15.0	-0.6		10.0		253.8		72.6							
	e	Sg	E	03:46:44.8	-0.3													
GUT	e	Pn	-	03:46:08.9	-1.4				261.1		203.0							
		Pg		03:46:16.2	-0.6													
	e	Sg		03:46:46.3	-0.9													
BFO	e	Pg	Z	03:46:17.0	-0.3	T			263.9		217.2							
	e	Sn	N	03:46:36.9	-1.0	T												
	e	Sg	E	03:46:46.2	-1.8	T												
SPAK	e	Pg		03:46:18.1	0.1				268.0		208.2							
	e	Sg		03:46:47.5	-1.6													
GEC2	e	Sg	N	03:46:51.0	-1.3	T			278.8		122.6							
UBR		Pn		03:46:08.8	-4.5				285.9		185.7							
	e	Pg		03:46:20.5	-0.6													
		Sn		03:46:38.9	-3.6													
	e	Sg		03:46:53.7	-0.6													
FELD	e	Pn	+	03:46:15.1	-2.2				319.1		215.5							
	e	Sg		03:47:01.5	-2.2													

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/11	20:38:10.7		47.110N	6.570E				17		13	7	316	2.4ML		LEDBW	L
1998/12/11	20:38:10.2	+ - 0.15	47.156N	6.501E	3.4	2.3	100	4G		27		151	2.1ML		LDG	L

Morteau/F, W of La Chaux-de-Fonds/CH

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BBS	e Pg -	20:38:24.6	0.3			83.4	65.3	
	i PmP-	20:38:25.0	-2.3					
	Sg	20:38:35.1	1.1					

FELD		Pg		20:38:32.8	-0.9			138.4	54.1								
		Sg		20:38:48.9	-0.9												
BFO	e	Sg	E	20:39:02.9	-1.3			189.1	45.6								
GUT		Sg		20:39:11.2	-2.1			220.8	61.6			ML	2.4				

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/11		20:52:01.5	+ - 0.16	47.157N	6.518E	3.6	2.6	106	2	+ - 0.0	21		152	2.0ML		LDG	I

Morteau/F, W of La Chaux-de-Fonds/CH

1998/12/12		01:42:17.3	+ - 0.54	49.140N	6.870E	7.8	4.4	44	1G		6	3	189	2.0ML	TNS	BGR	I
1998/12/12		01:42:16.7	+ - 0.60	49.150N	6.820E	11.0	3.0	80	1G		13	11	204	2.1ML		LEDBW	I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	i Pg -	01:42:27.8	0.3	T		63.7	15.7	
WLF	e Pg Z	01:42:30.3	0.9		7.5	74.9	320.1	
	e Sg N	01:42:39.9	1.8					
ABH	Pg	01:42:33.3	0.2	T		96.8	32.6	
LIBD	Pg	01:42:38.7	0.7	T		125.1	152.3	
BFO	e Pg Z	01:42:41.3	0.3		5.6	143.4	128.9	ML 1.8
	e Sg N	01:42:57.2	-0.4					
FELD	Pg	01:42:44.8	-0.1	T		166.3	147.9	
	Sg	01:43:04.8	0.6	T				
TNS	e Pg Z	01:42:45.1	0.1		4.0	167.1	43.9	ML 2.0
	e Sg E	01:43:04.9	0.5					
BEU	Pg	01:42:50.5	-0.1	T		200.0	107.4	ML 2.0
	Sg	01:43:15.3	1.4	T				
SIND	e Pg +	01:42:50.3	-0.9	T		203.4	82.7	
GUT	Pg	01:42:52.8	1.0	T		207.1	124.6	ML 2.2
	Sg	01:43:15.2	-0.6					

1998/12/14		13:57:44.3	+ - 0.54	49.130N	6.860E	8.9	4.4	44	1G		6	3	190	2.2ML	TNS	BGR	I
1998/12/14		13:57:44.0	+ - 0.40	49.150N	6.890E	7.0	2.0	86	1G		16	9	198	2.1ML		LEDBW	I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
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RUP	i	Pg -	13:57:54.8	0.2	T		62.5	11.2									
		Sg	13:58:03.1	1.2													
WLF	e	Pg Z	13:57:57.4	0.2		3.4	78.2	317.3									
		Sg N	13:58:06.8	0.5													
KTD	e	Pg +	13:57:59.3	0.3	T		88.7	77.2									
		PmP	13:58:00.9	-1.1	T												
ABH	e	Pg	13:57:59.6	-0.4	T		94.2	30.0									
		PmP	13:58:01.5	-1.4	T												
BFO	e	Pg Z	13:58:08.6	0.9		2.9	139.5	130.3	ML	2.0							
		Sg N	13:58:24.2	0.4													
TOD	i	Pg +	13:58:08.9	-0.1	T		147.5	69.2									
LBG		Sg	13:58:27.1	0.4			149.3	110.5	ML	2.1							
TNS	e	Pg Z	13:58:12.2	0.5		2.2	163.6	42.6	ML	2.2							
		Sg N	13:58:32.4	1.6													
FELD	e	Pg +	13:58:11.8	0.1	T		163.7	149.5									
		Sg	13:58:31.9	1.1	T												
SIND		Pg	13:58:17.1	-0.5			198.3	82.6	ML	2.1							
		Sg	13:58:46.6	5.9													

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/17	01:11:59.2	+/- 1.49	51.640N	7.760E	16.7	6.7	15	1G		6	3	285	2.2ML		SZGRF	I
1998/12/17	01:11:56.4	+/- 1.18	51.740N	7.860E	13.3	4.4	178	1G		7	4	242	2.4ML	GSH	BGR	I
1998/12/17	01:11:57.5		51.647N	7.744E				1G					2.1ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	01:12:05.5	1.2	TA		40.1	235.2	ML 2.1
	e Sg E	01:12:11.5	2.5					
GSH	e Pg Z	01:12:21.7	0.6		5.8	139.0	223.8	ML 2.4
	e Sg N	01:12:39.9	2.7					
TNS	e Pg Z	01:12:26.2	0.6		4.4	165.9	162.4	ML 2.3
	e Sg N	01:12:46.0	1.1					
MOX	e Sg N	01:13:19.1	-1.9			292.1	110.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/17	05:29:18.0	+/- 0.53	49.140N	6.870E	7.8	3.3	48	1G		7	4	189	2.2ML	TNS	BGR	I
1998/12/17	05:29:17.5	+/- 0.20	49.150N	6.880E	4.0	2.0	91	1G		17	10	200	2.0ML		LEDBW	I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	i Pg -	05:29:28.5	0.3	T		62.7	11.9	
WLF	e Pg Z	05:29:31.0	0.4		4.9	77.7	317.7	
	e Sg N	05:29:40.5	0.8					

KTD	e	Pg +	05:29:33.0	0.3	T	89.4	77.3										
	i	PmP	05:29:34.6	-1.1	T												
ABH	e	Pg +	05:29:33.7	0.2	T	94.6	30.4										
	e	PmP	05:29:35.2	-1.2	T												
BFO	e	Pg Z	05:29:41.9	0.7		5.1	140.0	130.1	ML	2.0							
	e	Sg N	05:29:58.0	0.5													
FELD	e	Pg -	05:29:45.3	0.0	T	164.0	149.3										
	e	Sg	05:30:05.7	1.3	T												
TNS	e	Pg Z	05:29:45.6	0.3		3.4	164.1	42.8	ML	2.2							
	e	Sg E	05:30:05.6	1.2													
GSH	e	Sg N	05:30:09.8	0.8		180.1	348.7										
SIND	e	Pg +	05:29:50.8	-0.4	T	199.1	82.6	ML	2.0								
GUT	e	Pg +	05:29:53.5	1.6		203.5	125.3	ML	2.3								
	e	Sg	05:30:16.7	1.0	T												

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/17	13:07:54.7		49.056N	13.707E				10G			5		2.5ML	VIE	NEIC	
	Less reliable solution															

S of Strakonice/CR

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/17	19:36:24.6	+ - 0.19	47.551N	7.674E	3.5	2.0	68	12G		70		199	3.2ML		LDG	L
1998/12/17	19:36:23.5		47.630N	7.660E				10		14	8	294	3.1ML		SZGRF	L
1998/12/17	19:36:24.8		47.630N	7.820E				8		14	9	256	3.2ML	GRFO	BGR	L
	ML= 3.0(VIE)															
1998/12/17	19:36:23.9		47.580N	7.755E				25		20	11		2.6ML		SED	
1998/12/17	19:36:24.4		47.581N	7.766E				18		20	9	92	3.0ML		LEDBW	L

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BBS	i Pg +	19:36:29.5	0.2	T		23.2	236.2	
	i Sg	19:36:32.6	-0.1	T				
BAW	e Pg -	19:36:29.6	-0.0	T		25.2	344.7	
	e Sg	19:36:33.5	0.3	T				
FELD	i Pg -	19:36:31.6	0.2	T		37.4	28.4	
	PmP	19:36:32.2	-1.8	T				
	i Sg	19:36:36.6	0.4	T				
FBB	i Pg -	19:36:33.1	0.1	T		47.2	7.9	
	i Sg	19:36:39.1	0.2	T				
LIBD	e Pn -	19:36:36.2	-1.1			64.5	349.2	
BFO	e Pn +	19:36:39.2	-1.6			93.3	26.5	ML 2.7
	e Pg +	19:36:40.1	-0.4					
	e Sg	19:36:51.2	-0.3					

SPAK	i	Pn	+	19:36:39.8	-1.3				95.7	52.3						
	i	Pg		19:36:40.7	-0.2											
GUT	i	Pn	+	19:36:41.9	-1.5				114.5	61.1			ML	2.7		
	e	Pg	+	19:36:43.7	-0.3											
		Sg		19:36:57.2	-0.3											
LBG		Pn		19:36:44.8	-2.0				142.6	32.0			ML	3.1		
	e	Sg		19:37:04.2	-1.3											
BEU	i	Pn	+	19:36:47.8	-1.8				165.7	47.1			ML	3.0		
	e	Pg	+	19:36:51.7	-1.0											
		Sn		19:37:06.6	-1.0											
	i	Sg		19:37:10.8	-1.2											
UBR	i	Pn	+	19:36:50.6	-0.3				175.8	85.5			ML	2.7		
		Pg		19:36:54.0	-0.4											
	e	Sg		19:37:14.5	-0.4											
KTD	i	Pn	+	19:36:52.0	-1.2				194.8	6.8						
HDH	e	Pn	-	19:36:53.6	-1.8				212.9	57.5			ML	2.9		
		Sn		19:37:16.9	-0.7											
	e	Sg		19:37:23.7	-1.8											
TOD	e	Sn		19:37:20.8	-2.0				237.7	18.3						
SIND		Pn		19:36:56.1	-2.4				238.8	33.9			ML	3.2		
		Pg		19:37:04.7	-0.3											
RUP	e	Pg		19:37:05.5	0.0				241.4	347.8						
ABH	e	Pn		19:36:59.0	-1.6				256.3	356.5						
		Pg		19:37:07.7	-0.3											
OGA	e	Pn		19:37:03.3	2.3				258.6	106.7						
WLF	e	Sg	E	19:37:38.2	-0.8				260.3	333.5						
FUR	e	Sg	N	19:37:41.0	-0.7				269.6	74.8			ML	3.1		
TNS	e	Pn	Z	19:37:05.5	-0.2				297.9	9.4						
	e	Sg	E	19:37:48.7	-1.0											
GRFO	e	Pg	Z	19:37:22.6	-0.4			4.8	345.6	46.0			ML	3.2		
	e	Sg	E	19:38:01.1	-2.2											
GRA1	e	Pg	Z	19:37:23.1	-0.0				345.7	46.0			ML	3.4		
	e	Sg	N	19:38:01.5	-1.8											
MOX	e	Pg	Z	19:37:36.2	-3.0				440.9	38.0			ML	3.4		
	e	Sn	E	19:38:05.9	0.1											
	e	Sg	N	19:38:28.1	-2.4											
GEC2	e	Pn	Z	19:37:25.1	-0.6				461.6	70.1						
	e	Pg	Z	19:37:42.5	-0.3			1.9								
	e	Sn	N	19:38:11.7	1.5											
CLL	e	Sg	E	19:39:03.2	-1.6				561.0	40.4			ML	3.5		
BRG	e	Sg	N	19:39:07.7	-2.1				578.6	48.5						

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/18	14:17:18.4		47.665N	7.780E	2.1	2.1	0	4	+- 3.6	18	10	204	1.9ML		SED	
	ML= 1.7(STR)															
1998/12/18	14:17:17.9	+- 0.06	47.671N	7.765E	0.9	0.5	354	10	+- 0.7	18	10	141	2.0ML		LEDBW	L

Schopfheim, NE of Basel/CH

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BAW	e Pg -	14:17:21.1	0.0	T		15.7	335.2	
	PmP	14:17:24.3	-2.5	T				
	e Sg	14:17:23.5	0.3	T				
FELD	i Pg +	14:17:23.2	0.2	T		29.0	37.9	
	i Sg	14:17:27.3	0.6	T				
BBS	e Pg +	14:17:23.3	0.1	T		29.9	220.0	
	Sg	14:17:27.3	0.4	T				
BFO	e Pg Z	14:17:32.2	-0.1			84.5	29.6	ML 1.6
	e Sg E	14:17:41.9	-0.3					
SPAK	Pg	14:17:33.2	-0.1	T		90.0	57.4	
GUT	e Pg +	14:17:36.4	-0.2	T		110.1	65.7	ML 2.0
	PmP	14:17:38.7	0.3					
	Sg	14:17:49.7	0.2	T				
LBG	Sg	14:17:55.7	-0.6			134.2	34.3	ML 1.9
UBR	Sg	14:18:08.3	0.2			175.4	88.8	ML 2.0
HDH	Sg	14:18:16.5	-0.8			207.7	59.8	ML 2.3
SIND	Sg	14:18:23.1	-0.8			230.6	35.3	ML 2.0

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/18	15:21:14.1	+ -	0.28	50.050N	8.161E	4.8	3.7	66	11G		48		289	3.3ML		LDG	L
1998/12/18	15:21:13.2			50.060N	8.260E				10G			42		3.0ML		STR	
	ML= 3.2(VIE), ML= 2.9(UCC)																
1998/12/18	15:21:12.5			50.140N	8.250E				10G		24	14	176	2.5ML		LEDBW	L
1998/12/18	15:21:12.8			50.150N	8.280E				10G		14	8	117	2.6ML		SZGRF	L
1998/12/18	15:21:12.9			50.150N	8.260E				10G		19	10	84	2.7ML	GSH	BGR	L

Wiesbaden/Taunus

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
TNS	e Pg Z	15:21:15.3	-0.7	T	393.4	15.6	58.8	ML 2.5
	e Sg E	15:21:17.8	-0.3	T	987.2			
ABH	i Pg +	15:21:22.6	-0.4			59.0	239.9	
	i Sg	15:21:30.4	0.5					
TOD	e Pg -	15:21:24.3	-0.9			72.0	147.0	
HEI	e Pg	15:21:27.5	-0.7			90.0	157.9	
	e PmP+	15:21:28.5	-1.8					
	e Sg	15:21:38.3	-0.5					
	e SmS	15:21:39.6	-2.7					
	KTD	Pg	15:21:29.3	0.6			93.1	187.9
RUP	e Pg -	15:21:29.2	-0.6			99.4	240.3	
	Sg	15:21:42.1	0.7					
SIND	e Pn -	15:21:34.0	-0.8			131.5	132.1	ML 2.9
	Pg	15:21:36.5	1.3					
	Sn	15:21:49.2	-1.1					

GSH	e	Pn	Z	15:21:36.8	0.0	T	3.7	148.4	296.8	ML	2.7						
	e	Pg	Z	15:21:38.8	0.7	T	8.6										
	e	Sg	E	15:21:55.3	-0.1	T	4.7										
BUG	e	Sg	E	15:21:59.0	0.5	T	5.1	159.5	334.5	ML	2.6						
WLF	e	Pn	N	15:21:37.9	-0.4	T	2.6	160.3	251.1								
LBG		Pn		15:21:38.7	-0.7			169.7	166.6	ML	2.5						
BEU		Pn		15:21:42.0	-0.3			193.2	153.9	ML	2.6						
		Sn		15:22:02.2	-1.1												
		Sg		15:22:07.0	-1.1												
BFO	e	Pn	Z	15:21:42.8	-0.6	T	1.5	202.4	178.5	ML	2.4						
	e	Pg	Z	15:21:46.4	-0.8												
	e	Sn		15:22:04.4	-0.9												
	e	Sg	E	15:22:09.2	-1.6	T	1.7										
GRFO	e	Pg	Z	15:21:49.6	-0.2			218.0	102.4	ML	2.7						
	e	Sg	N	15:22:14.5	-0.7	T	2.8										
HDH		Pn		15:21:45.8	-0.3			224.0	140.3	ML	2.5						
		Sn		15:22:08.7	-1.1												
		Sg		15:22:15.7	-1.3												
SPAK		Pn		15:21:46.9	-0.0			230.9	170.3								
GUT		Pn		15:21:47.3	-0.6			239.4	164.6	ML	2.5						
		Sn		15:22:11.4	-1.7												
MOX	e	Pn	Z	15:21:49.1	0.6	T	3.1	244.1	75.7	ML	2.5						
	e	Pg	Z	15:21:52.8	-1.4	T	6.7										
	e	Sn	E	15:22:16.8	2.7	T	2.4										
FELD		Pn		15:21:48.4	-1.3			253.5	184.3								
UBR		Pn		15:21:56.7	0.6			305.9	153.1	ML	2.6						
		Sn		15:22:27.4	0.3												
CLL	e	Pg	Z	15:22:12.0	-1.5	T	5.8	357.7	67.1	ML	3.1						
	e	Sg	N	15:22:54.3	-0.8	T	2.2										
BRG	e	Pn	Z	15:22:10.6	1.9	T	1.6	409.7	76.5								
	e	Pg	Z	15:22:20.3	-2.0	T	1.9										
GEC2	e	Pn	Z	15:22:11.6	1.8	T	11.8	418.8	108.2	ML	3.1						
	e	Sn	N	15:22:54.0	3.0	T	3.9										

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/22	14:42:40.2	+- 0.17	47.177N	6.020E	4.0	2.4	137	2	+- 0.0	22		121	2.4ML		LDG	L

SE of Besancon/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/23	19:46:31.4	+- 0.39	50.468N	9.110E	6.3	5.2	70	2G		27		305	3.0ML		LDG	L
1998/12/23	19:46:33.9		50.420N	8.890E				10G		14	7	113	2.5ML		SZGRF	L
1998/12/23	19:46:33.0		50.430N	8.910E				10G		20	9	114	2.6ML	BUG	BGR	L

Giessen/Hessen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
TNS	e Pg Z	19:46:40.8	0.8	T	210.4	40.1	235.1	ML 2.2
	e Sg N	19:46:45.5	0.7	T				
BUG	e Pg Z	19:47:00.4	0.1	T	9.2	160.8	315.0	ML 2.6
	e Sg N	19:47:17.8	-1.2	T				
GSH	e Pn Z	19:47:02.2	1.2	T	1.8	182.0	281.8	ML 2.7
	e Pg Z	19:47:03.7	-0.2	T	6.4			
GRA1	e Sg N	19:47:25.7	0.6	T	4.8			
	e Pg	19:47:05.2	0.9			184.3	115.5	mb 5.0
MOX	e Sg	19:47:26.1	0.4					
	e Pn E	19:47:03.7	1.3	T	3.2	192.7	81.8	ML 2.6
HOF	e Pg Z	19:47:06.0	0.3	T	25.5			
	e Sg Z	19:47:28.3	0.2	T	5.2			
WLF	e Pn	19:47:09.5	4.9			210.8	92.4	
	e Pn Z	19:47:05.3	0.2	T	1.1	214.5	247.7	ML 2.4
BFO	e Pg Z	19:47:09.0	-0.4	T	5.7			
	e Sg N	19:47:35.9	1.6					
CLL	e Pn Z	19:47:08.7	0.9	T	1.5	237.2	190.4	ML 2.5
	e Pg Z	19:47:12.1	-1.1					
BRG	e Sn E	19:47:34.6	1.8	T				
	e Sg Z	19:47:41.1	0.3	T	2.2			
GEC2	e Pg Z	19:47:24.3	-0.1	T	4.7	303.3	69.7	mb 5.0
	e Sg N	19:48:00.5	0.8	T	3.5			
GEC2	e Pg	19:47:33.8	0.1			358.1	80.2	ML 2.9
	e Sg N	19:48:15.5	0.1	T	3.7			
GEC2	e Pn Z	19:47:28.8	2.7	T	2.4	387.3	115.2	ML 3.1
	e Sg N	19:48:22.7	-1.0	T	2.0			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/24	00:55:17.2	+/- 0.30	47.235N	7.882E	5.4	2.8	95	12G		22		223	2.2ML		LDG	L
ML= 2.1(STR)																
1998/12/24	00:55:18.1		47.256N	7.939E				19		33	16	204	2.1ML		LEDBW	L
Followed by an aftershock 1.5 hours later with almost same magnitude																
1998/12/24	00:55:17.7		47.247N	7.931E				22		24	15		2.0ML		SED	

Olten, Langenthal/CH

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BBS	i Pg -	00:55:25.7	0.2			39.9	307.4	
	i PmP	00:55:26.4	-0.7					
	Sg	00:55:30.7	-0.1					
BAW	e Pn +	00:55:28.9	-1.1			64.3	342.8	
	e Sn	00:55:36.8	-1.8					
FELD	e SmS	00:55:37.3	-1.7					
	i Pn +	00:55:29.9	-0.9			70.2	4.4	
	i Pg +	00:55:30.1	-0.0					
	e Sg	00:55:38.6	-0.1					

LIBD		Sg		00:55:47.7	-0.2			103.4	346.4								
SPAK		Pg		00:55:37.0	-0.5			114.6	33.6								
		Sg		00:55:51.5	0.4												
BFO	e	Pn	Z	00:55:36.1	-1.1			124.1	13.7								
	e	Sn	Z	00:55:49.7	-1.5												
	e	Sg	Z	00:55:52.5	-1.2												
GUT		Pn		00:55:36.8	-0.9			127.5	43.6	ML	2.1						
		Pg		00:55:38.7	-0.9												
	e	Sg		00:55:53.8	-0.9												
LBG		Sg		00:56:05.5	-1.2			170.2	21.9	ML	2.0						
UBR	e	Pg	-	00:55:46.5	-0.3			170.6	72.8	ML	2.1						
	i	Sg		00:56:06.9	0.0												
BEU		Pg		00:55:49.0	-0.3			185.3	36.1	ML	1.9						
		Sg		00:56:09.5	-1.6												
HDH		Sg		00:56:21.1	-1.3			225.5	47.9	ML	2.1						
SIND		Pg		00:56:02.5	-0.2			264.5	27.3	ML	2.1						
		Sg		00:56:32.4	-1.1												

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/24	09:07:23.6	+ - 0.60	49.160N	6.880E	15.6	5.6	35	1G		5	4	186	1.9ML	TNS	BGR	I
1998/12/24	09:07:22.8	+ - 0.60	49.160N	6.910E	17.0	2.0	97	1G		11	9	197	2.3ML		LEDBW	I
Aftershock to event Dec 24, 00:55 with Ml= 2.1																

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

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	Pg		09:07:33.9	0.7	T		61.2	10.1	
WLF	e Pg	E	09:07:36.4	0.3		1.8	78.4	316.0	
	e Sg	E	09:07:45.8	0.6		1.5			
ABH	Pg		09:07:39.0	0.5	T		92.5	29.6	
	i PmP		09:07:40.6	-0.8	T				
BFO	e Pg	N	09:07:47.2	0.8		2.8	139.1	131.0	
LBG	Sg		09:08:07.9	2.7	T		148.3	111.1	ML 1.8
TNS	e Pg	Z	09:07:51.0	0.8		2.7	161.8	42.5	ML 1.9
FELD	Pg		09:07:50.8	0.2	T		163.9	150.1	
	Sg		09:08:10.9	1.3	T				
GSH	e Sg	N	09:08:14.1	0.0			179.4	347.9	ML 2.1
GUT	Pg		09:07:58.6	1.5	T		202.3	125.9	ML 2.3
	Sg		09:08:24.1	3.5					
UBR	Sg		09:08:49.3	4.3	T		287.6	123.7	ML 2.3
GEC2	e Pn	Z	09:08:32.1	1.9		1.9	496.5	91.5	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/25	02:32:09.0	+ - 0.59	49.170N	6.990E	6.7	4.4	57	1G		11	6	213	2.5ML	TNS	BGR	I
1998/12/25	02:32:08.5	+ - 0.64	49.190N	6.810E	10.0	4.4	56	1G		13	7	219	2.5ML		SZGRF	I
1998/12/25	02:32:07.4	+ - 0.50	49.140N	6.850E	8.0	2.0	92	1G		29	18	202	2.6ML		LEDBW	I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	Pg	02:32:18.6	0.3	T		64.3	13.5	
	Sg	02:32:26.6	0.8	T				
KTD	e Pg	02:32:22.9	-0.1	T		91.8	76.9	
ABH	e Pg -	02:32:23.9	0.1	T		96.6	31.1	
	PmP	02:32:25.4	-1.2	T				
	Sg	02:32:35.7	0.6	T				
LIBD	i Pg +	02:32:29.4	1.1	T		123.1	153.0	
BFO	e Pg Z	02:32:31.8	0.5			141.0	129.1	ML 2.4
	e Sg E	02:32:49.2	1.6					
TOD	i Pn -	02:32:30.9	-1.8	T		150.6	69.2	
LBG	Pg	02:32:33.7	0.5	T		151.7	109.7	ML 2.6
	Sg	02:32:51.5	0.7	T				
FELD	e Pn	02:32:33.5	-0.9	T		164.2	148.4	
	i Sg	02:32:54.8	0.5	T				
TNS	e Pn N	02:32:34.5	-0.2		1.5	166.4	43.1	ML 2.6
	e Pg Z	02:32:36.1	0.5					
	e Sg N	02:32:55.3	0.4					
GSH	e Pg Z	02:32:36.3	-1.7			180.8	349.4	ML 2.4
	e Sg N	02:32:57.8	-1.3					
SPAK	i Sg	02:33:04.2	4.5			183.2	128.3	
BBS	i Pg -	02:32:40.2	0.1	T		192.6	165.1	
BEU	Pn +	02:32:37.7	-0.7	T		197.6	107.3	ML 2.6
	Pg	02:32:40.9	-0.0	T				
SIND	Pn	02:32:37.3	-1.6	T		201.4	82.3	ML 2.5
	i Pg +	02:32:40.9	-0.7	T				
GUT	Pg	02:32:42.4	0.3	T		204.6	124.7	ML 2.6
HDH	Pg	02:32:50.0	-0.3	T		253.2	102.9	ML 2.5
BUG	e Pg Z	02:32:50.3	-0.7			257.5	6.5	
	e Sn E	02:33:14.9	1.7					
	e Sg E	02:33:20.2	-0.8					
UBR	Pn	02:32:50.4	0.7	T		290.0	122.8	ML 2.6
	Pg	02:32:58.2	1.7	T				
GRA1	e Pg Z	02:33:02.5	0.5			322.1	77.4	
	e Sg N	02:33:39.3	-0.2					
FUR	e Sg Z	02:33:50.2	4.9			342.7	106.8	
MOX	e Pg Z	02:33:09.1	-2.7			380.1	62.1	
	e Sg N	02:33:57.9	1.9					
CLL	e (Sg) N	02:34:28.3	-1.8			499.4	58.8	
GEC2	e Pn Z	02:33:16.2	0.8		9.4	500.8	91.2	
	e Sn N	02:34:03.9	-0.7					
	e Sg N	02:34:29.1	-1.4					
BRG	e Sg	02:34:47.1	4.8			542.0	66.5	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/26	00:10:12.7		47.119N	14.466E				5G			10		2.5ML	VIE	NEIC	
Intensity = IV (MSK) at Niederwolz																
1998/12/26	00:10:20.5	+- 1.75	47.400N	14.140E	23.3	8.9	134	0G		6	5	287	2.8ML	FUR	BGR	L

Enns Valley/A,

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BHG	i Pg +	00:10:37.4	-0.3			101.1	291.2	
FUR	e Pn Z	00:10:56.2	0.5	T	1.1	230.2	292.7	ML 2.8
	e Sg N	00:11:26.4	0.1	T				
BRG	e Sg E	00:12:11.4	0.5	T		386.5	357.9	
MOX	e Sg E	00:12:17.0	0.8	T		405.0	333.9	
CLL	e Sg E	00:12:28.7	1.9	T		442.2	349.7	
BFO	e Sg N	00:12:27.3	-0.5	T		445.5	285.6	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/26	10:34:51.7	+- 0.52	47.153N	7.283E	10.2	3.7	120	14G		13		217	2.3ML		LDG	L

Biel/CH, Bieler See

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/29	12:04:13.1	+- 0.16	47.141N	5.539E	4.4	2.6	150	13G		16		116	2.3ML		LDG	L

near Dole/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/29	12:12:38.2	+- 0.39	50.189N	7.949E	7.1	4.1	57	16G		24		287	2.9ML		LDG	L
1998/12/29	12:12:35.2		50.319N	8.024E				10G			12		2.5ML	UCC	NEIC	
			ML= 2.5(STR)													
1998/12/29	12:12:36.0		50.270N	8.050E				10G		10	7	119	2.2ML	TNS	BGR	L
1998/12/29	12:12:36.4		50.270N	8.070E				10G		14	7	119	2.3ML		SZGRF	L

Limburg/Lahn

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
TNS	e Pg Z	12:12:41.7	0.4	T		27.3	101.0	ML 2.1
	e Sg E	12:12:44.7	0.1	T				
GSH	e Pg Z	12:12:58.0	-0.5	T		130.5	294.1	ML 2.4
	e Sg E	12:13:12.5	-1.2	T				
BUG	e Pg Z	12:13:00.0	-0.4	T		141.8	337.0	ML 2.4
	e Sg E	12:13:16.4	-0.6	T				
BFO	e Pg Z	12:13:12.5	-0.6	T		216.5	174.9	
	e Sg N	12:13:36.8	-1.4	T				
GRA1	e Pg Z	12:13:15.6	-0.6	T		234.3	104.7	
	e Sg N	12:13:42.5	-0.9	T				

MOX	e Pn		12:13:14.0	0.7				254.4	79.2	ML 2.4
	e Pg	Z	12:13:17.6	-1.9	T					
	i Sn		12:13:41.8	2.0						
	e Sg	N	12:13:48.4	-0.7	T					
CLL	e Pg	Z	12:13:36.4	-1.9	T			365.3	69.7	
	e Sg	E	12:14:20.0	-0.8	T					
BRG	e Sg		12:14:39.4	3.0				420.0	78.6	
GEC2	e (Pn)	Z	12:13:37.3	1.9		1.9		435.9	109.1	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/12/30	09:51:07.9		48.817N	10.041E				10G			9		2.4ML	VIE	NEIC	
1998/12/30	09:51:08.6		48.810N	10.130E				0G		13	8	118	2.5ML	BFO	BGR	B

Aalen/Northern Swabian Jura

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
FUR	e Pg	Z	09:51:27.8	0.4	T		110.9	130.0	
	e Sg	E	09:51:41.8	1.5	T				
BFO	e Pg	Z	09:51:31.9	-0.9	T		142.8	248.7	ML 2.5
TNS	e (Pg)	Z	09:51:42.7	0.5	T		198.5	322.9	
WET	e (Pg)	Z	09:51:43.0	-0.2	T		204.0	78.5	
	e Sg	N	09:52:06.5	-0.3	T				
MOX	e Pn	Z	09:51:43.7	0.0	T		230.2	27.1	ML 2.5
	i Pg		09:51:50.7	3.1					
	e Sg	N	09:52:15.5	1.1	T				
GEC2	e Pn	Z	09:51:47.9	0.3	T		261.4	87.8	
	e Sg	N	09:52:22.5	-0.8	T				
CLL	e (Pn)	Z	09:51:57.1	-0.6	T		345.2	35.3	
	e Sg	N	09:52:47.8	0.6	T				
BRG	e (Sg)	N	09:52:50.3	-0.3	T		356.8	48.6	

Unassociated arrivals

Sta	Phase	Date	Time	TRes	Def	S/N	Dist	EvAz	Mag
CLL	e Sg	1998/12/03	16:32:28.0						
BRG	e Sg	1998/12/03	20:55:51.7						
BRG	e Sg	1998/12/04	09:30:57.6						
BRG	e Sg	1998/12/10	09:24:02.5						
BRG	e Sg	1998/12/10	11:40:23.1						
BRG	e Sg	1998/12/10	17:05:30.8						
BFO	e Pg	1998/12/11	01:13:52.4						
BFO	e Sg	1998/12/11	01:14:11.0						
BFO	e Sg	1998/12/11	20:52:53.9						
BRG	e Sg	1998/12/12	01:38:18.5						
CLL	e Sg	1998/12/13	11:31:25.0						
CLL	e Sg	1998/12/14	11:31:11.0						
BRG	e Sg	1998/12/14	11:31:04.1						
BRG	e Sg	1998/12/15	11:38:39.1						
CLL	e Sg	1998/12/15	15:41:20.0						
BRG	i Sg	1998/12/18	09:16:17.5						
BFO	e Sg	1998/12/22	14:43:40.6						
BRG	e Sg	1998/12/22	19:08:41.2						
BRG	e Sg	1998/12/23	09:30:02.1						
BRG	e Sg	1998/12/23	17:30:48.4						
OGA	i Pg +	1998/12/25	21:41:36.6						
BFO	e Pg	1998/12/26	10:35:17.2						

BFO	e	Sg	1998/12/26 10:35:33.5
CLL	e	Sg	1998/12/27 04:58:52.0
BRG	e	Sg	1998/12/27 15:14:00.7
CLL	e	Sg	1998/12/28 01:57:13.0
CLL	e	(Sg)	1998/12/29 14:45:12.0
BRG	e	Sg	1998/12/29 19:12:05.9