

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/01	10:17:18.1	+- 0.71	49.530N	6.660E	12.2	5.6	66	1G		7	3	214	2.1ML	TNS	BGR	I
1999/07/01	10:17:19.9	+- 1.20	49.580N	6.750E	18.0	4.0	111	5G		13	8	247	2.0ML		LED	L

Lebach, N of Saarbruecken

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	i Pg +	10:17:24.8	0.4	T		26.1	58.6	
ABH	i Pg +	10:17:31.4	0.2	T		66.4	59.4	
	e PmP	10:17:34.0	-0.6	T				
KTD	e Pg -	10:17:37.5	0.6	T		100.6	106.2	
	e Sg	10:17:50.7	2.0	T				
GSH	e Pg Z	10:17:41.0	-1.2		3.1	131.4	348.5	ML 1.9
	e Sg E	10:17:56.8	-0.7					
WLS	e Pn +	10:17:42.3	-0.7	T		137.0	161.0	
	e Sg	10:17:58.7	-0.3	T				
TNS	e Pn Z	10:17:43.2	-0.4		2.2	141.0	58.9	ML 2.1
	e Pg Z	10:17:44.3	0.5		26.7			
	e Sg N	10:18:01.2	1.0					
TOD	e Sg	10:18:04.2	2.0	T		148.1	88.1	
ECH	e Pn	10:17:44.7	-0.5	T		154.6	168.7	
	e Sg	10:18:03.5	-0.5	T				
LBG	Pg	10:17:51.7	1.2			180.2	123.6	ML 2.0
	Sg	10:18:13.0	1.6					
BFO	e Pg Z	10:17:50.3	-0.2		3.0	180.6	139.7	ML 1.7
	e Sg N	10:18:08.5	-3.0					
MOF	e Pg	10:17:51.8	-1.0	T		194.2	171.5	
	e Sg	10:18:14.6	-0.8	T				
KIZ	Sg	10:18:16.7	-0.3			199.8	154.2	ML 2.0
SIND	Sg	10:18:22.5	3.2			208.0	96.0	ML 2.1
FELD	e Pg	10:17:54.9	-0.7	T		210.6	153.6	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/03	08:53:17.3	+- 1.05	47.210N	12.030E	11.1	5.6	168	10G		8	5	261	2.2ML	GEC2	BGR	L

Western Kitzbuehler Alps/A

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FUR	e Pg Z	08:53:36.7	-1.0	T	2.5	120.1	332.2	ML 2.7
	e Sg N	08:53:52.8	1.1	T				
GEC2	e Pn Z	08:53:50.2	0.2	T	1.7	220.2	33.7	ML 2.2
	e Sg E	08:54:20.6	0.3	T				
STU	e Sg N	08:54:35.3	-0.1	T		273.2	310.5	ML 2.8
BFO	e Pg Z	08:54:08.9	0.2	T	2.4	303.2	295.6	ML 2.8
	e Sg E	08:54:44.4	0.4	T				
MOX	e Sg E	08:55:06.0	-0.8	T		383.1	355.6	ML 2.6
BRG	e Sg	08:55:22.4	2.1			430.5	18.2	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/03	09:51:18.0	+- 0.54	51.600N	7.780E	8.9	4.4	160	1G		8	4	196	2.0ML		SZGRF	I
1999/07/03	09:51:15.9		51.651N	7.703E				1G					1.9ML		BUG	I

Hamm/Westfalen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	09:51:23.5	1.1	TA		38.1	232.2	ML 1.9
	e Sg E	09:51:29.3	2.5					
GSH	e Pg Z	09:51:40.2	1.0			137.4	222.8	ML 1.9
	e Sg N	09:51:57.9	2.8					
TNS	e (Pn)-	09:51:44.6	1.4			167.2	161.5	ML 1.9
	e Pg Z	09:51:44.6	0.3					
	e Sn +	09:52:02.9	0.3					
	e Sg N	09:52:03.1	-0.6					
CLZ	e Pg Z	09:51:47.1	-0.1			185.0	82.4	ML 2.1
	e Sg E	09:52:09.9	1.2					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/05	15:07:16.4	+- 2.19	48.240N	5.650E	22.2	7.8	62	10G		5	3	286	1.9ML	BFO	BGR	L
1999/07/05	15:07:18.7	+- 2.10	<b>48.260N</b>	<b>5.770E</b>	<b>16.0</b>	<b>10.0</b>	<b>130</b>	<b>10G</b>		<b>18</b>	<b>15</b>	<b>248</b>	<b>2.2ML</b>		<b>LED</b>	<b>L</b>

Chatenois/Vosges/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
ECH	Pg	15:07:36.2	-0.0	T		102.9	92.2	
	Sg	15:07:49.8	1.6	T				
MOF	Pg	15:07:37.5	-0.1			111.0	113.6	
	Sg	15:07:51.7	1.2	T				
WLS	Pg	15:07:38.7	-0.1	T		118.3	81.1	
	Sg	15:07:54.0	1.4	T				
LOMF	i Pg -	15:07:40.5	0.0	T		128.3	141.6	
	Sg	15:07:56.8	1.3	T				
BBS	Sg	15:08:04.0	0.4	T		157.0	123.6	
WLF	e Sg E	15:08:02.9	-1.3			158.7	10.0	ML 1.7
KIZ	Sg	15:08:05.7	0.3	T		163.0	101.2	ML 2.0
LANF	Sg	15:08:07.2	-0.0	T		169.7	61.1	
FELD	Sg	15:08:08.4	0.7	T		171.4	103.6	
RUP	Sg	15:08:09.4	-2.4	T		185.9	29.9	
BFO	e Pg Z	15:07:50.5	-0.3		2.3	189.5	86.7	ML 1.9
	e Sn E	15:08:07.5	-0.8					
	e Sg E	15:08:13.4	0.5					
KTD	Sg	15:08:17.7	-0.1	T		206.4	54.3	
SLE	Pg	15:07:51.0	-3.3			209.9	104.2	
	Sg	15:08:18.9	0.2	T				
LBG	Sg	15:08:24.1	0.3	T		227.5	77.4	ML 2.3
TOD	Sg	15:08:33.8	-1.3	T		267.4	54.8	
BEU	Sg	15:08:37.2	1.0	T		271.4	81.0	ML 2.2
TNS	e Sg E	15:08:42.3	0.1			292.2	40.7	ML 2.4
SIND	Sg	15:08:46.8	0.7	T		305.8	65.2	ML 2.2

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/06	02:29:44.1	+- 0.61	51.660N	7.750E	8.9	4.4	157	1G		8	4	208	2.3ML		SZGRF	I
1999/07/06	02:29:43.7	+- 0.30	51.620N	7.760E	4.4	3.3	139	1G		14	7	120	2.3ML	GSH	BGR	I
1999/07/06	<b>02:29:42.3</b>		<b>51.657N</b>	<b>7.714E</b>				<b>1G</b>					<b>2.3ML</b>		<b>BUG</b>	<b>I</b>

Hamm/Westfalen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg + Z	02:29:50.1	1.2	TA		39.1	232.2	ML 2.3

IBBN	e	Sg	N	02:29:56.0	2.6														
	e	Sg	E	02:30:06.0	3.0														
GSH	e	Pg	Z	02:30:07.0	1.3														
	e	Sg	E	02:30:24.6	2.7														
TNS	e	Pn	Z	02:30:10.4	0.7														
	e	Pg	Z	02:30:12.1	1.4														
	e	Sg	N	02:30:31.2	1.0														
CLZ	e	Pg	Z	02:30:14.4	0.9														
	e	Sg	E	02:30:35.4	0.5														
WLF	e	Pg	Z	02:30:24.5	0.2														
	e	Sg	E	02:30:51.4	-1.5														
MOX	e	Sg	N	02:31:07.1	0.7														

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/08	02:41:07.5	+- 0.64	51.640N	7.750E	10.0	4.4	157	1G		6	3	205	2.1ML		SZGRF	I
<b>1999/07/08</b>	<b>02:41:06.2</b>		<b>51.651N</b>	<b>7.703E</b>				<b>1G</b>					<b>2.0ML</b>		<b>BUG</b>	<b>I</b>

Hamm/Westfalen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg + Z	02:41:13.8	1.1	TA		38.1	232.2	ML 2.0
	e Sg E	02:41:19.3	2.2					
TNS	e Pg Z	02:41:34.7	0.1			167.2	161.5	ML 2.0
	e Sg N	02:41:54.7	0.7					
CLZ	e Pg Z	02:41:37.4	-0.2			185.0	82.4	ML 2.2
	e Sg N	02:41:59.2	0.2					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/08	04:40:12.2		49.140N	6.700E				2					2.0ML		NEIC	
<b>1999/07/08</b>	<b>04:40:13.1</b>	<b>+- 3.20</b>	<b>49.150N</b>	<b>6.830E</b>	<b>39.0</b>	<b>21.0</b>	<b>97</b>	<b>1G</b>		<b>10</b>	<b>9</b>	<b>203</b>	<b>1.8ML</b>		<b>LED</b>	<b>I</b>

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RUP	Pg	04:40:23.7	-0.1	T		63.5	15.0	
LANF	Pg	04:40:26.7	1.1	T		73.5	104.5	
WLS	Pg	04:40:29.3	0.8	T		90.5	154.7	
ECH	Pg	04:40:31.4	0.2	T		106.6	166.8	
BFO	e Pg Z	04:40:37.4	0.1		4.5	142.8	129.1	
	e Sg E	04:40:54.3	0.4					
MOF	Pg	04:40:37.8	-0.0	T		146.1	171.1	
	Sg	04:40:54.5	-0.3	T				
TOD	Sg	04:40:56.0	-0.4	T		151.6	69.7	
LBG	Sg	04:40:57.2	0.3	T		153.3	109.8	ML 1.9
KIZ	Sg	04:40:57.1	-0.3	T		155.0	148.5	ML 1.8
FELD	Pg	04:40:40.0	-1.2	T		165.9	148.2	
TNS	e Pg Z	04:40:40.0	-1.4		1.4	166.6	43.7	
	e Sg E	04:41:01.0	0.3					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/09	09:03:22.1	+- 0.64	51.650N	7.740E	10.0	4.4	157	1G		6	3	207	2.2ML		SZGRF	I

1999/07/09 09:03:22.1 +- 0.48 51.640N 7.730E 11.1 6.7 138 1G 5 4 126 2.1ML CLZ BGR I  
 1999/07/09 09:03:20.1 51.657N 7.714E 1G 2.2ML BUG I

Hamm/Westfalen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	09:03:27.9	1.2	TA		39.1	232.2	ML 2.2
	e Sg E	09:03:33.8	2.6					
IBBN	e Pg Z	09:03:34.4	2.1			72.4	2.3	
	TNS	e Pg Z	09:03:49.6	1.1		167.6	161.9	ML 2.1
CLZ	e Sg N	09:04:09.2	1.3					
	e Pg Z	09:03:52.3	1.0			184.1	82.6	ML 2.1
	e Sg N	09:04:13.7	1.0					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/09	14:16:50.3		48.300N	8.100E				6					2.5ML		LDG	
1999/07/09	14:16:51.2	+ - 0.40	48.240N	8.070E	6.0	4.0	99	2G		20	11	80	1.6ML		LED	L

Haslach/Black Forest, N of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	14:16:53.7	-1.2		21.7	21.7	62.4	
	e Sg N	14:16:56.4	-1.0					
KIZ	i Pg +	14:16:56.8	-0.1	T		33.5	199.7	ML 1.5
	Sg	14:17:01.8	1.0	T				
	SmS	14:17:07.6	-2.7	T				
FELD	i Pg +	14:16:58.2	0.1	T		40.7	186.9	
	i Sg	14:17:04.4	1.5	T				
WLS	Pg	14:16:59.8	-1.0	T		56.3	290.2	
SLE	i Pg +	14:17:01.7	0.1	T		61.4	149.0	
	PmP	14:17:03.9	-1.6	T				
	i Sg	14:17:13.2	4.4					
ECH	Pg	14:17:03.2	0.5	T		67.6	268.1	
LBG	Pg	14:17:03.8	0.5	T		71.4	48.2	ML 1.6
	Sg	14:17:13.6	2.0	T				
	Pg	14:17:05.8	0.7	T		81.9	238.6	
MOF	Sg	14:17:17.0	2.4	T				
	i Pg +	14:17:05.6	0.1	T		84.6	346.8	
LANF	Sg	14:17:16.3	0.9	T				
	Pg	14:17:07.7	0.3	T		95.8	206.1	
BBS	Sg	14:17:20.4	1.8	T				
	Pg	14:17:08.7	-0.5	T		106.4	68.4	ML 1.8
BEU	Sg	14:17:21.8	0.2	T				
	Pg	14:17:14.3	0.1	T		135.6	223.7	
LOMF	Sg	14:17:31.4	1.4					
	Pg	14:17:18.8	-0.2			164.0	111.5	ML 1.8
UBR	Sg	14:17:39.3	1.2					
	Pg	14:17:21.2	1.8			166.9	41.8	ML 1.7
SIND	Pg	14:17:21.2	1.8			166.9	41.8	ML 1.7
ABH	Pg	14:17:20.6	-2.2			186.5	348.4	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/13	20:46:56.4		47.733N	7.310E				10					3.0ML		NEIC	
1999/07/13	20:47:01.5		47.500N	7.600E				2					3.3ML		LDG	
1999/07/13	20:47:01.8		47.500N	7.700E				14					2.5ML		SED	

1999/07/13 20:47:00.3 +- 1.11 47.510N 7.630E 14.5 12.2 57 10G 8 6 297 2.6ML BFO BGR L  
 1999/07/13 20:47:01.5 +- 1.09 47.550N 7.640E 14.5 11.1 27 10G 13 7 296 3.0ML SZGRF L  
**1999/07/13 20:47:01.6 +- 0.30 47.500N 7.710E 4.0 2.0 346 15 +- 2.0 32 16 173 3.2ML LED L**

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FELD	i Pg -	20:47:10.2	0.2	T		47.3	27.6	
	Sg	20:47:15.8	0.0	T				
KIZ	e Pg -	20:47:10.8	-0.1	T		53.1	17.0	ML 3.3
	Sg	20:47:17.3	-0.0	T				
	SmS	20:47:18.5	-3.0	T				
FBB	e Pg -	20:47:11.7	0.1	T		56.8	10.8	
	e PmP	20:47:13.3	-0.6	T				
	Sg	20:47:18.5	0.1	T				
	i SmS	20:47:20.1	-2.2	T				
MOF	i Pg -	20:47:11.8	-0.0	T		58.3	312.4	
	Sg	20:47:18.8	0.1	T				
SLE	i Pg +	20:47:13.3	0.2	T		65.7	62.9	
LOMF	e Pg +	20:47:13.5	0.0	T		68.4	256.3	
LIBD	i Pg -	20:47:14.5	0.3	T		72.8	353.7	
BFO	e Pg Z	20:47:18.4	-0.8			103.2	26.3	ML 2.6
	e Sg E	20:47:30.5	-0.9					
SPAK	i Pn +	20:47:18.1	-1.5	T		104.6	49.8	
	Pg	20:47:19.3	-0.2	T				
	Sg	20:47:32.0	0.2	T				
WLS	Pn	20:47:18.1	-1.6	T		104.9	345.5	
	Pg	20:47:19.1	-0.5	T				
LBG	i Pn +	20:47:23.3	-2.2	T		152.7	31.5	ML 3.1
	Pg	20:47:26.1	-1.5	T				
	Sg	20:47:44.3	-1.2	T				
LANF	Pg	20:47:29.4	-0.2	T		164.8	2.4	
BEU	i Pn +	20:47:26.1	-2.1	T		174.9	45.8	ML 3.2
	Sn	20:47:45.8	-1.4	T				
	Sg	20:47:50.6	-1.2	T				
STU	e Sg E	20:47:51.3	-1.7			179.1	37.4	ML 3.3
UBR	Sg	20:47:53.7	0.2	T		180.9	82.7	ML 2.9
KTD	Pg	20:47:36.9	0.5	T		204.3	7.6	
TOD	Sg	20:48:10.8	-1.7			247.6	18.6	
SIND	i Pn -	20:47:34.5	-2.8	T		248.6	33.5	ML 3.2
	Pg	20:47:43.2	-0.6	T				
	Sg	20:48:11.7	-1.0	T				
RUP	Pg	20:47:43.4	-0.5	T		249.4	349.2	
ABH	Pg	20:47:46.1	-0.5			265.1	357.5	
FUR	e Pg Z	20:47:48.1	-0.4			276.1	73.2	ML 3.1
	e Sg E	20:48:21.0	0.4					
TNS	e Pn Z	20:47:42.5	-1.8			307.5	9.8	ML 2.7
	e Sn N	20:48:14.9	-0.4					
	e Sg N	20:48:28.9	-0.6					
GRC1	e Sg E	20:48:35.8	0.6			327.5	58.1	
GRA1	e Pg Z	20:48:01.2	-0.6			355.0	45.4	ML 3.5
	e Sg N	20:48:43.0	-0.2					
GRB1	e Sg E	20:48:43.6	-0.6			358.7	52.7	
MOX	e Sn E	20:48:45.5	-0.0			450.6	37.7	ML 3.1
	e Sg N	20:49:10.4	-0.1					
GEC2	e (Pn) Z	20:48:06.6	2.5			468.6	69.2	
CLL	e (Sg)	20:49:43.0	-1.7			570.6	40.1	
BRG	e Sg	20:49:48.2	-1.4			587.7	48.0	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/13	20:55:24.3		47.530N	7.700E				2					2.0ML		NEIC	
<b>1999/07/13</b>	<b>20:55:24.1 +- 0.20</b>		<b>47.520N</b>	<b>7.690E</b>	<b>2.0</b>	<b>1.0</b>	<b>329</b>	<b>15</b>	<b>+- 2.0</b>	<b>15</b>	<b>8</b>	<b>188</b>	<b>1.9ML</b>		<b>LED</b>	<b>L</b>

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FELD	i Pg +	20:55:32.6	0.2	T		46.1	30.6	
	Sg	20:55:38.3	0.4	T				
KIZ	Pg	20:55:33.2	0.0	T		51.4	19.3	ML 1.9
	i Sg	20:55:39.7	0.2	T				
	SmS	20:55:41.1	-2.6	T				
MOF	Pg	20:55:34.1	0.2	T		55.7	311.7	
	Sg	20:55:41.1	0.5	T				
SLE	i Pg +	20:55:35.6	-0.0	T		66.1	65.2	
	Sg	20:55:43.7	0.2	T				
LOMF	i Pg -	20:55:35.9	0.1	T		67.5	254.1	
	Sg	20:55:44.8	1.0	T				
BFO	e Pg Z	20:55:40.0	-1.6		1.9	101.9	27.6	
	e Sg N	20:55:53.0	-0.5					
WLS	Pg	20:55:41.3	-0.4	T		102.4	346.0	
	Sg	20:55:53.8	0.1	T				
SPAK	Pg	20:55:41.5	-0.5	T		104.4	51.2	
LBG	Sg	20:56:06.6	-1.1			151.6	32.4	ML 1.9
BEU	Sg	20:56:12.8	-1.4			174.5	46.7	ML 1.8
SIND	Sg	20:56:34.5	-0.5	T		247.6	34.1	ML 1.9

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/15	10:50:35.3		47.300N	10.700E				10					2.2ML		SED	

Imst/A, Western Mieminger Mountains

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FUR	e Sg E	10:51:10.8	5.3			105.2	23.9	
BFO	e Pg Z	10:51:08.3	-2.8		1.1	210.8	303.8	
	e Sg E	10:51:33.1	-2.5					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/15	18:31:08.6 +- 0.95		51.670N	7.760E	22.2	6.7	159	1G		4	3	209	2.2ML	BUG	BGR	I
<b>1999/07/15</b>	<b>18:31:09.0 +- 0.67</b>		<b>51.670N</b>	<b>7.750E</b>	<b>11.1</b>	<b>5.6</b>	<b>156</b>	<b>1G</b>		<b>6</b>	<b>3</b>	<b>210</b>	<b>2.1ML</b>		<b>SZGRF</b>	<b>I</b>

Hamm/Westfalen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg Z	18:31:15.3	-0.8	T		41.9	232.7	ML 2.2
	e Sg N	18:31:21.0	0.0	T				
TNS	e Pg Z	18:31:36.9	-0.7	T		168.2	162.8	ML 2.0
	e Sg N	18:31:56.7	-0.4	T				
CLZ	e Pg Z	18:31:39.3	-0.5	T		181.5	82.9	ML 2.1
	e Sg E	18:32:00.3	-0.6	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/16	19:43:43.0		48.200N	7.500E				4					2.2ML		LDG	
<b>1999/07/16</b>	<b>19:43:41.4</b>	<b>+ - 0.10</b>	<b>48.190N</b>	<b>7.700E</b>	<b>1.0</b>	<b>1.0</b>	<b>47</b>	<b>3</b>	<b>+ - 2.0</b>	<b>6</b>	<b>3</b>	<b>166</b>	<b>1.7ML</b>		<b>LED</b>	<b>L</b>

Emmendingen/Upper Rhine Graben, N of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
KIZ	e Pg +	19:43:46.8	0.2	T		30.6	148.0	ML 1.5
	e PmP	19:43:50.1	-2.3	T				
	e Sg	19:43:50.6	0.4	T				
WLS	e Pg	19:43:47.8	0.3	T		35.6	314.2	
FELD	e Sg	19:43:53.7	0.4			41.6	146.9	
BFO	e Pg Z	19:43:49.6	-0.2		3.1	49.1	71.3	
	e Sg N	19:43:55.3	-0.2					
GUT	e Pg -	19:43:59.3	-0.0	T		105.9	96.7	ML 1.9
	e Sg	19:44:12.3	0.6	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/19	03:07:36.4		47.200N	9.200E				2					2.3ML		LDG	
1999/07/19	03:07:35.0	+ - 1.21	47.200N	9.300E	12.2	5.6	15	10G		8	5	271	1.7ML	BFO	BGR	L
<b>1999/07/19</b>	<b>03:07:33.7</b>		<b>47.200N</b>	<b>9.300E</b>				<b>3</b>					<b>1.8ML</b>		<b>SED</b>	

Glarus, Walenstadt/CH, Walensee

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	03:07:59.6	1.3		4.8	145.1	330.4	ML 1.7
	e Sg N	03:08:15.8	0.7		4.4			
STU	e Sg N	03:08:26.2	2.5		1.4	174.8	357.4	ML 2.2
GRFO	e Sg E	03:09:03.5	0.9		1.9	311.0	26.4	ML 2.3
WET	e Pg Z	03:08:33.7	2.0		1.7	342.2	49.5	ML 2.2
	e Sg N	03:09:12.9	1.4		1.7			
GEC2	e Pg Z	03:08:38.8	1.5		2.4	374.9	59.2	ML 2.4
	e Sg Z	03:09:22.1	1.3		2.4			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
<b>1999/07/19</b>	<b>07:36:52.2</b>		<b>47.200N</b>	<b>9.400E</b>				<b>2</b>					<b>2.3ML</b>		<b>SED</b>	

Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg E	07:37:19.4	1.9		2.5	149.0	327.9	
	e Sg N	07:37:35.9	1.2					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/20	09:10:20.2	+ - 1.05	47.250N	9.580E	13.3	5.6	11	10G		8	4	264	2.4ML	WET	BGR	L
<b>1999/07/20</b>	<b>09:10:18.4</b>		<b>47.200N</b>	<b>9.500E</b>				<b>2</b>					<b>2.2ML</b>		<b>SED</b>	

Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
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OGA	i	Pg	-	09:10:43.8	4.8			121.3	107.2								
BFO	e	Pg	Z	09:10:45.8	1.4			5.1	153.1	325.6				ML	1.9		
	e	Sg	N	09:11:02.8	0.6												
WET	e	Pn	Z	09:11:05.5	-0.1			1.2	330.8	48.0				ML	2.4		
	e	Sg	N	09:11:52.9	0.0												
TNS	e	Pn	Z	09:11:08.6	1.3			1.1	344.8	347.5				ML	2.7		
	e	Sg	E	09:11:58.3	1.4												
GEC2	e	Pg	Z	09:11:20.1	0.3			1.4	362.0	58.1				ML	2.3		
	e	Sg	N	09:12:00.5	-1.3												

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/22	15:07:37.0	+-	1.27	48.230N	5.650E	13.3	12.2	37	10G		8	5	315	2.2ML	BFO	BGR	L
1999/07/22	15:07:37.4	+-	1.50	48.320N	5.660E	13.0	8.0	108	10G		14	10	252	2.6ML		LED	L

St. Blin, W of Neufchateau/F

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
ECH	e	Pg	15:07:56.8	0.4	T		111.5	95.4	
	e	Sg	15:08:10.4	1.0	T				
MOF	e	Pg	15:07:57.9	-0.1	T		121.2	114.9	
	e	Sg	15:08:12.7	0.5	T				
WLS	e	Pg	15:07:58.8	0.1	T		125.5	84.7	
	e	Sg	15:08:15.2	1.8	T				
LOMF	e	Pg	15:08:01.0	0.1	T		138.6	140.6	
	e	Sg	15:08:17.3	0.2	T				
KIZ		Pg	15:08:06.9	0.2			172.4	102.7	ML 2.4
	e	Sg	15:08:26.5	-0.2	T				
LANF	e	Pg	15:08:05.4	-1.5	T		173.9	64.2	
RUP	e	Sg	15:08:31.2	1.0	T		184.4	33.1	
BFO	e	Pn	E	15:08:07.4	0.0	1.2	197.4	88.7	ML 2.2
	e	Pg	E	15:08:11.2	0.3	2.8			
	e	Sg	N	15:08:33.1	-0.7				
ABH	e	Sg	15:08:41.1	0.3	T		221.4	37.6	
LBG	e	Sg	15:08:44.2	-0.2	T		234.2	79.4	ML 2.6
GUT		Sg	15:08:52.4	1.4			257.6	94.9	ML 2.4
STU	e	Sg	E	15:08:53.8	0.7		264.9	77.8	ML 3.0
TOD	e	Sg	15:08:55.1	0.4	T		270.4	56.9	
BEU		Sg	15:08:47.1	-9.9			278.5	82.6	ML 2.6
TNS	e	Pg	Z	15:08:27.9	0.8	1.8	292.6	42.7	ML 2.8
	e	Sg	E	15:09:02.4	1.3				
UBR		Sg	15:09:15.2	1.1			338.4	100.5	ML 2.5
GRFO	e	Sg	N	15:09:44.6	3.4		433.1	67.3	
GEC2	e	Sg	N	15:10:27.3	0.1		594.1	81.4	ML 3.0

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/24	02:47:36.9	+-	1.10	50.920N	14.910E	10.0	5.6	57	0G		8	5	272	1.4ML	BRG	BGR	Q?
1999/07/24	02:47:37.5	+-	1.09	50.900N	14.870E	11.1	6.7	59	10G		8	5	270	2.0ML		SZGRF	Q?

Zittau, German-Czech border region

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e	Pg	Z	02:47:48.3	-0.4	T	65.1	267.7	ML 1.4
	e	Sg	E	02:47:56.1	-0.2	T			
CLL	e	Pg	Z	02:48:00.1	-0.8	T	138.0	289.9	ML 2.2



	e	Sg	E	02:48:17.5	0.4	T												
MOX	e	Sg	N	02:48:43.3	-0.1	T		230.6	264.2					ML				2.2
GEC2	e	Pn	Z	02:48:13.8	0.8	T		243.3	200.6									
	e	Sg	E	02:48:46.8	-0.3	T												
GRA1	e	Sg	N	02:49:02.0	1.1	T		291.8	244.0					ML				2.3
GRFO	e	Sg	N	02:49:02.0	1.0	T		292.0	244.0									

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/25	03:28:31.9	+- 1.88	51.530N	6.540E	18.9	10.0	121	1G		5	3	304	2.1ML		SZGRF	I

Moers

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg Z	03:28:40.6	-0.1	T		51.5	100.9	ML 1.8
	e Sg E	03:28:46.9	0.3	T				
TNS	e Pg Z	03:29:03.6	-1.8	T		197.6	136.6	ML 2.1
	e Sg N	03:29:28.5	0.2	T				
CLZ	e Sg N	03:29:48.1	0.1	T		266.4	81.0	ML 2.3

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/25	12:18:43.9	+- 1.06	51.680N	7.680E	24.5	4.4	155	1G		5	3	216	2.0ML		SZGRF	I
1999/07/25	12:18:43.8	+- 0.50	51.630N	7.680E	6.7	5.6	114	1G		6	4	130	1.7ML	BUG	BGR	I

Hamm/Westfalen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg Z	12:18:49.8	0.1	T		35.4	233.6	ML 1.7
	e Sg E	12:18:55.6	1.7	T				
IBBN	e Pg Z	12:18:56.8	0.2	T		75.5	4.0	
TNS	e Pg Z	12:19:11.8	-0.1	T		165.5	160.7	ML 1.9
	e Sg N	12:19:31.3	0.2	T				
CLZ	e Pn Z	12:19:13.4	-0.1	T		186.9	81.7	ML 2.2
	e Pg Z	12:19:14.1	-1.4	T				
	e Sg E	12:19:37.4	0.2	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/25	17:59:24.0		50.330N	7.400E				10					2.3ML		NEIC	
1999/07/25	17:59:21.5		50.400N	7.400E				2					2.9ML		LDG	
1999/07/25	17:59:24.0	+- 1.30	50.330N	7.400E	12.0	9.0	15	10G		17	10	288	2.3ML		LED	L
1999/07/25	17:59:22.9	+- 0.53	50.390N	7.400E	7.8	3.3	75	10G		8	5	192	2.0ML	TNS	BGR	L
1999/07/25	17:59:23.5	+- 0.50	50.410N	7.500E	6.7	3.3	79	10	+- 6.1	9	5	186	2.2ML		SZGRF	L
1999/07/25	17:59:23.4	+- 1.31	50.395N	7.376E				10	+-12.9	12	6	190	2.1ML		BNS	L

Koblentz

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BGG	i Pg - Z	17:59:27.5	0.1	T		21.2	187.5	
	i Sg E	17:59:30.2	0.1	T				
STB	e Pg Z	17:59:31.4	0.4	T		43.9	300.4	
	e Sg E	17:59:36.3	0.1	T				
HIL	i Pg - Z	17:59:32.2	0.1	T		50.8	257.2	
	e Sg N	17:59:38.1	-0.1	T				

ABH	e	Pg	+	17:59:33.3	-0.1					58.4	167.8						
	e	PmP		17:59:34.0	-2.4												
	e	Sg		17:59:39.3	-1.0												
BNS	e	Pg	Z	17:59:34.5	0.0		T			64.8	347.5						
	i	Sg	E	17:59:41.8	-0.4		T										
HOB	e	Pg	+	Z 17:59:34.5	-0.2		T			65.5	357.4						
	i	Sg	E	17:59:41.7	-0.7		T										
TNS	e	Pg	Z	17:59:36.2	-0.6					78.5	103.7	ML	1.9				
	e	Sg	N	17:59:46.3	0.3												
KLL	e	Pg	Z	17:59:37.0	-0.2		T			80.3	290.8						
	e	Sg	E	17:59:47.8	1.3		T										
RUP	e	Pg	+	17:59:36.4	-0.7					80.3	196.5						
	e	PmP		17:59:36.8	-2.6												
	e	SmS		17:59:48.1	-2.3												
BUG	e	Pg	Z	17:59:42.4	-0.8					116.5	356.4	ML	2.2				
	e	Sg	E	17:59:56.9	0.1												
KTD	e	Pg	+	17:59:44.6	-0.9					129.8	156.7						
	e	Sg		18:00:00.4	-0.2												
TOD	e	Pg	-	17:59:45.7	-0.6					134.6	130.1						
	e	Sg		18:00:01.0	-1.0												
LANF	e	Pg	+	17:59:50.1	-0.5					160.3	168.7						
IBBN	e	Sg	E	18:00:24.2	-0.5					214.3	6.9						
LBG		Pn		17:59:55.3	-0.5					217.8	151.4	ML	2.2				
	e	Pg		17:59:59.9	-0.4												
	e	Sg		18:00:22.9	-2.8												
WLS	e	Pg		17:59:58.4	-2.4					220.4	180.4						
	e	Sg		18:00:25.0	-1.5												
BFO	e	Pn	Z	17:59:58.0	-0.5					239.8	162.9	ML	2.1				
	e	Sg	E	18:00:31.9	-0.0												
BEU		Sn		18:00:24.6	-1.1					249.5	143.0	ML	2.3				
	e	Sg		18:00:33.0	-1.7												
CLZ	e	Pn	Z	17:59:59.9	-1.5					263.8	51.3	ML	2.6				
	e	Sg	E	18:00:36.9	-2.0												
KIZ	e	Pg		18:00:08.7	-1.2					274.0	171.5	ML	2.3				
	e	Sg		18:00:40.5	-1.3												
FELD	e	Pg	-	18:00:10.5	-1.0					283.7	170.5						
	e	Sg		18:00:44.5	-0.0												
MOX	e	(Pg)	Z	18:00:14.7	0.3					301.0	83.1						
	e	Sg	N	18:00:47.4	-2.1												
UBR		Sg		18:01:06.1	-0.7					361.5	145.5	ML	2.2				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/26	02:00:24.4	+ - 1.03	52.150N	7.870E	12.2	5.6	158	1G		8	5	252	2.3ML		SZGRF	I
1999/07/26	02:00:21.4	+ - 0.51	52.270N	7.780E	5.6	5.6	24	1G		9	6	137	2.3ML	BUG	BGR	I

Tecklenburg/Ibbenbueren, W of Osnabrueck

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
IBBN	e Pg Z	02:00:21.7	-0.5	T		4.4	339.0	ML 2.4
BUG	e Pg Z	02:00:38.1	0.0	T		98.7	201.0	ML 2.3
	e Sg E	02:00:50.3	0.7	T				
CLZ	e Pn Z	02:00:50.5	-0.2	T		183.5	104.0	ML 2.2
	e Pg Z	02:00:52.6	0.2					
	e Sg N	02:01:15.4	1.6	T				
TNS	e Pn	02:00:56.5	-0.1			232.4	168.2	ML 2.4
	e (Pg) Z	02:01:01.4	0.7	T				

	e	Sg	N	02:01:26.9	-0.8	T											
MOX	e	Sg	N	02:01:52.5	-0.7	T			321.3	122.7							
GRA1	e	Sg	N	02:02:07.3	-1.0				374.4	138.6							
GRFO	e	(Sg)	N	02:02:08.1	-0.2	T			374.4	138.6							

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/27	07:38:00.4		47.600N	5.500E				2					2.2ML		LDG	

Gray/Haute-Saone/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Sg N	07:39:07.6	2.7			225.7	67.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/28	11:54:18.7		47.100N	5.600E				2					2.2ML		LDG	

near Dole/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/29	10:35:49.7		47.100N	5.500E				2					2.4ML		LDG	

near Dole/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Sg E	10:36:58.3	-3.4			252.0	56.1	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/29	15:04:50.1	+/- 2.40	46.810N	8.970E	27.8	12.2	9	10G		4	3	297	1.9ML	BFO	BGR	L
1999/07/29	15:04:55.7		47.000N	9.100E				0					2.1ML		SED	

S of Glarus/CH, W of Chur

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	15:05:20.4	-2.2		2.6	158.7	339.0	ML 1.9
	e Sg N	15:05:39.2	-1.8					
STU	e Sg N	15:05:53.9	1.9			197.0	2.0	ML 2.6
WET	e Sg N	15:06:41.2	0.3			368.2	48.3	ML 2.5

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1999/07/30	11:20:54.9		48.100N	5.500E				2					2.4ML		LDG	

Clefmont, E of Chaumont/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Sg N	11:21:55.2	-0.0			211.2	82.0	
TNS	e Sg N	11:22:27.6	1.7			318.7	41.1	

## Unassociated arrivals

Sta	Phase	Date	Time	TRes	Def	S/N	Dist	EvAz	Mag
MOX	e (Sg)	1999/07/01	03:31:39.1						
BRG	e Sg	1999/07/01	07:39:29.3						
BRG	i Sg	1999/07/01	10:02:05.3						
OGA	e Pn	1999/07/01	11:58:24.3						
OGA	i Pn +	1999/07/01	13:18:20.5						
OGA	e Pn	1999/07/01	14:33:01.5						
BRG	e Sg	1999/07/02	02:43:04.8						
OGA	i Pn +	1999/07/02	11:15:23.7						
OGA	i Pn -	1999/07/02	12:54:11.0						
OGA	e Pn	1999/07/02	15:01:50.0						
OGA	e Pn	1999/07/02	17:13:02.6						
OGA	e Pn	1999/07/03	08:53:08.5						
OGA	e Pg	1999/07/03	10:11:25.5						
OGA	e Pn	1999/07/03	16:15:13.0						
BRG	i Sg	1999/07/07	11:30:42.2						
OGA	e Pn	1999/07/07	17:42:22.6						
OGA	i Pn +	1999/07/07	21:20:26.5						
CLL	e Sg	1999/07/09	10:09:10.0						
TNS	e Sn	1999/07/10	08:59:20.9						
CLL	e (Sg)	1999/07/11	09:51:40.0						
CLL	e Sg	1999/07/13	01:35:48.0						
BRG	i Sg	1999/07/13	06:36:43.0						
BRG	e Sg	1999/07/14	07:54:48.1						
SCE	i Pg +	1999/07/15	00:02:13.4						
OGA	e Pn	1999/07/15	06:13:20.8						
BRG	e Sg	1999/07/15	13:58:52.4						

BRG	i	Sg	1999/07/17	03:03:04.0
BRG	i	Pg	1999/07/17	11:23:03.8
BRG	i	Sg	1999/07/17	11:23:21.2
MOX	e	Sg	1999/07/18	23:18:56.8
TNS	e	Pg	1999/07/19	16:43:28.8
TNS	e	Sg	1999/07/19	16:43:48.3
BRG	e	Sg	1999/07/19	19:01:29.6
BRG	i	Sg	1999/07/20	09:01:31.9
BRG	e	Sg	1999/07/20	18:40:20.5
BRG	e	Sg	1999/07/21	07:09:20.3
BRG	i	Sg	1999/07/21	10:38:18.5
BRG	e	Sg	1999/07/22	07:12:57.8
BRG	e	Sg	1999/07/23	13:39:48.0
BRG	e	Sg	1999/07/24	02:09:22.9
SCE	i	Pg +	1999/07/25	21:07:39.4
BRG	i	Sg	1999/07/27	08:09:51.4
HOF	e	Pn	1999/07/27	14:30:34.1
BRG	i	Sg	1999/07/27	15:41:26.3
BRG	i	Sg	1999/07/27	17:18:13.3
BRG	e	Sg	1999/07/28	00:34:17.0
BRG	i	Sg	1999/07/28	08:18:40.3
BFO	e	Sg	1999/07/28	11:54:45.3
MOX	e	Sg	1999/07/28	17:17:04.7
CLL	e	Sg	1999/07/28	22:13:51.0
BRG	i	Sg	1999/07/29	14:54:06.3
MOX	e	Sg	1999/07/29	17:44:38.5
CLL	e	Sg	1999/07/30	07:29:28.0
BRG	i	Sg	1999/07/30	09:52:27.8