

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
 2001/12/02 21:32:08.9 +- 0.44 49.370N 6.920E 5.6 4.4 45 1G 7 4 163 2.0ML BFO BGR I

Saarbruecken-West

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z	21:32:20.5	0.7	T	3.4	64.4	300.9	ML 1.5
	e Sg	N	21:32:26.7	-0.6	T				
TNS	e Pg	Z	21:32:34.1	0.7	T	3.9	144.9	48.6	ML 2.0
	e Sg	E	21:32:50.1	-0.2	T				
BFO	e Pg	Z	21:32:35.5	0.4	T	4.6	154.9	137.7	ML 2.0
	e Sg	E	21:32:52.7	-0.4	T				
BUG	e Sg	N	21:33:15.0	-0.1	T		231.6	6.0	ML 2.3

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
 2001/12/04 12:11:26.2 47.933N 8.752E 15 6 3 2.2ML LDG I?

Tuttlingen/Swabian Jura

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z	12:11:35.9	0.2			54.1	324.8	
	e Sg	N	12:11:42.4	0.2					

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
 2001/12/04 13:04:34.4 +- 0.43 49.360N 6.880E 6.7 4.4 33 1G 7 4 166 2.0ML TNS BGR I

Saarbruecken-West

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z	13:04:44.7	-0.3	T	1.2	62.5	303.1	ML 1.6
	e Sg	E	13:04:52.3	0.0	T				
TNS	e Pg	Z	13:04:59.5	0.0	T	1.7	147.8	49.0	ML 2.0
	e Sg	N	13:05:16.5	-0.2	T				
BFO	e Pg	Z	13:05:01.2	0.4	T	2.2	156.1	136.6	ML 1.9
	e Sg	E	13:05:18.6	-0.4	T				
GEC2	e Pn	Z	13:05:43.1	0.8	T	2.1	499.7	94.0	

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
 2001/12/05 01:12:15.4 +- 0.56 51.580N 7.780E 8.9 4.4 163 1G 6 3 193 1.9ML SZGRF I

Unna

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg	Z	01:12:21.1	-0.9	T		38.6	246.5	ML 1.9
	e Sg	Z	01:12:26.8	0.4	T				
TNS	e Pg	Z	01:12:42.1	-0.1	T		158.0	162.5	
	e Sg	N	01:13:00.0	-0.5	T				
CLZ	e Pg	Z	01:12:44.5	-1.5	T		181.0	79.7	
	e Sg	N	01:13:07.3	0.2	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/05	11:06:39.0		47.353N	5.840E				7G		15	7		2.1ML		LDG	L

Charcenne, NW of Besancon/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/07	22:21:32.8		49.362N	6.864E				1G		24	11		2.7ML		LDG	L
2001/12/07	22:21:33.5	+- 0.41	49.480N	6.930E	14.5	11.1	38	1G		7	4	149	1.9ML		SZGRF	I
2001/12/07	22:21:33.0	+- 0.43	49.360N	6.860E	6.7	4.4	34	1G		7	4	167	2.0ML	BFO	BGR	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 22:21:44.0	0.6	T	6.6	61.3	303.8	ML 1.6
	e Sg	N 22:21:50.3	-0.2	T	3.8			
TNS	e Pg	Z 22:21:57.7	-0.6	T	5.1	148.9	49.3	ML 2.1
	e Sg	N 22:22:15.8	0.2	T	2.9			
BFO	e Pg	Z 22:21:59.4	-0.2	T	5.0	157.1	136.2	ML 2.0
	e Sg	N 22:22:17.7	-0.1	T	5.5			
BUG	e Sg	N 22:22:30.6	-9.0			233.2	7.0	ML 2.3
GEC2	e Pn	Z 22:22:41.9	0.9	T	6.9	501.2	94.0	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/08	17:44:31.4		49.356N	6.888E				1G		48	11		2.6ML		LDG	L
2001/12/08	17:44:31.5	+- 0.43	49.350N	6.860E	6.7	4.4	34	1G		7	4	168	1.7ML	BFO	BGR	I
2001/12/08	17:44:32.3	+- 0.59	49.350N	6.890E	8.9	6.7	66	1G		5	3	167	1.7ML		SZGRF	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 17:44:42.5	-0.6	T		63.7	303.6	ML 1.3
	e Sg	N 17:44:48.8	-1.8		2.6			
TNS	e Pg	Z 17:44:56.6	-0.9	T		148.0	48.5	ML 2.0
	e Sg	N 17:45:14.5	-0.1	T				
BFO	e Pg	Z 17:44:57.7	-0.9	T		154.8	136.6	ML 1.7
	e Sg	N 17:45:16.3	-0.3	T				
GEC2	e Pn	Z 17:45:40.2	0.1		6.0	498.9	93.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/10	08:23:18.8		47.687N	8.319E				4G		12	6		2.3ML		LDG	L
2001/12/10	08:23:17.8		47.700N	8.300E				2					1.6ML		SED	

Waldshut/Swiss-German border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z 08:23:31.2	1.5			70.1	1.8	
	e Sg	Z 08:23:43.2	5.4					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
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2001/12/10	12:28:47.1	+-	0.59	49.350N	6.890E	8.9	6.7	66	1G	5	3	167	2.0ML		SZGRF	I
2001/12/10	12:28:46.4	+-	0.43	49.360N	6.860E	6.7	4.4	34	1G	7	4	167	2.1ML	BFO	BGR	I
2001/12/10	12:28:46.2	+-	0.40	49.380N	6.880E	5.0	4.0	44	1G	22	19	126	2.3ML		LED	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
DUP	e Pg +	12:28:47.6	0.1	T		7.6	297.2	ML 2.4
	Sg	12:28:49.0	0.6					
RIVT	Pg	12:28:52.9	0.4	T		37.4	347.3	ML 1.9
RUP	e Pg -	12:28:53.0	0.3	T		38.0	19.8	
WLF	e Pg Z	12:28:57.3	0.7		3.9	61.3	301.3	ML 1.8
	e Sg N	12:29:03.6	-0.2		3.2			
PEB	Pg	12:28:57.2	-0.8	T		70.0	119.5	ML 2.3
ABH	e Pg -	12:28:58.5	-0.2	T		73.6	40.5	
IMS	e Pg	12:28:59.3	-0.1	T		77.5	71.7	ML 2.0
	PmP	12:29:00.8	-1.9	T				
	Sg	12:29:09.7	1.4	T				
FSH	Pg	12:29:00.4	0.8	T		79.1	11.9	ML 2.4
LANF	Pg	12:28:59.3	-0.5	T		80.6	123.1	
KTD	Pg	12:29:01.4	0.4	T		87.4	93.9	
BLI	Pg	12:29:05.5	1.7			103.9	336.1	ML 2.3
WLS	Pg	12:29:05.0	-0.3			113.0	162.0	
ECH	Pg	12:29:08.6	0.2	T		131.0	170.9	
SWS	Sg	12:29:25.3	1.3	T		132.2	84.3	ML 2.0
FACH	Sg	12:29:24.7	-0.0	T		134.7	35.9	ML 2.3
TOD	Pn	12:29:08.6	-1.8	T		141.2	79.0	
	i Sg	12:29:28.0	1.4	T				
TNS	e Pg Z	12:29:11.2	0.2		7.4	146.4	49.6	ML 2.4
	e Sg N	12:29:29.1	1.1		3.1			
BFO	e Pg Z	12:29:12.9	-0.1		7.8	157.7	137.2	ML 2.1
	e Sg E	12:29:30.9	-0.3		2.2			
LBG	Sg	12:29:31.2	-0.9	T		160.7	119.0	ML 2.3
BIW	Pn	12:29:13.7	0.4	T		165.0	24.1	ML 2.3
KIZ	Sg	12:29:35.8	-0.6	T		175.7	153.9	ML 2.4
FELD	Pg	12:29:17.3	-0.5	T		186.5	153.3	
SIND	Sn	12:29:36.5	-2.8	T		197.4	90.0	ML 2.3
SLE	i Pg +	12:29:22.6	-0.0	T		215.1	145.9	
GEC2	e Pn Z	12:29:55.2	1.1			499.9	94.2	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/10	22:18:29.8		49.358N	6.845E				1G		25	10		2.4ML		LDG	L
2001/12/10	22:18:30.1	+-	0.46	49.350N	6.840E	7.8	4.4	34	1G	6	3	169	1.8ML		SZGRF	I
2001/12/10	22:18:29.8	+-	0.42	49.360N	6.840E	6.7	4.4	29	1G	8	5	168	1.7ML	BFO	BGR	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg Z	22:18:40.7	0.7	T	3.5	60.1	304.6	ML 1.4
	e Sg N	22:18:46.7	-0.3	T	1.9			
TNS	e Pg Z	22:18:54.6	-0.6	T	2.7	150.0	49.7	ML 1.8
	e Sg E	22:19:13.0	0.3	T	2.6			
BFO	e Pg Z	22:18:56.3	-0.3	T	4.6	158.1	135.9	ML 1.7
	e Sg E	22:19:14.3	-0.7	T				
WET	e Pn Z	22:19:30.7	0.5	T	1.8	438.8	90.8	
GEC2	e Pn Z	22:19:38.5	0.4	T	4.7	502.6	93.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/11	12:39:42.7	+/- 0.44	49.350N	6.850E	7.8	4.4	35	1G		7	4	169	1.9ML	BFO	BGR	I
2001/12/11	12:39:43.7	+/- 0.45	49.350N	6.890E	6.7	4.4	34	1G		6	3	167	2.0ML		SZGRF	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 12:39:53.7	-0.8	T		63.7	303.6	ML 1.5
	e Sg	E 12:40:02.2	0.3	T				
TNS	e Pg	Z 12:40:07.5	-1.3	T		148.0	48.5	ML 2.0
	e Sg	N 12:40:26.2	0.3	T				
BFO	e Pg	Z 12:40:09.1	-0.8	T		154.8	136.6	ML 1.9
	e Sg	N 12:40:27.7	-0.2	T				
GEC2	e Pn	Z 12:40:51.6	0.1		4.0	498.9	93.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/12	12:20:19.2		49.363N	6.880E				1G		19	8		2.7ML		LDG	L
2001/12/12	12:20:19.9	+/- 1.75	49.360N	6.900E	25.6	6.7	92	1G		6	4	165	1.9ML	BFO	BGR	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Sg	N 12:20:36.6	-1.5	T	2.4	63.7	302.4	ML 1.4
TNS	e Pg	Z 12:20:44.2	-0.6	T	2.2	146.7	48.6	ML 1.9
	e Sg	N 12:21:02.1	0.2	T	2.6			
BFO	e Pg	Z 12:20:46.0	-0.2	T	3.0	155.1	137.0	ML 1.9
	e Sg	N 12:21:04.1	-0.2	T	6.3			
GEC2	e Pn	Z 12:21:28.4	0.8	T	2.2	498.3	94.0	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/13	09:07:34.0		48.010N	9.970E				24					2.4ML		NEIC	
2001/12/13	09:07:34.3	+/- 0.80	48.010N	9.940E	15.6	4.4	5	10G		7	5	207	2.2ML	FUR	BGR	L

Biberach/Riss, S of Ulm

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FUR	e Sg	N 09:08:04.3	1.1	T	2.7	100.6	79.8	ML 2.2
STU	e Sg	N 09:08:03.4	0.2	T	2.0	101.0	327.2	ML 2.1
BFO	e Pg	Z 09:07:55.2	-0.3	T	3.4	124.6	287.2	ML 1.4
	e Sg	N 09:08:10.0	0.0	T	3.8			
WET	e Pg	Z 09:08:16.5	-0.2	T	2.4	250.2	58.6	ML 2.1
	e Sg	E 09:08:43.9	-1.9	T	3.2			
GEC2	e Sg	N 09:08:57.3	-0.6	T	2.2	292.6	70.1	ML 2.5

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/14	11:43:36.1	+/- 0.65	51.530N	6.790E	11.1	4.4	108	1G		7	4	204	2.0ML		SZGRF	I
2001/12/14	11:43:35.6		51.516N	6.809E				1G					1.4ML		BUG	I

Duisburg, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	11:43:42.2	1.0	TA		33.0	104.6	ML 1.4
IBBN	e Pg Z	11:43:53.9	-0.2			109.3	36.1	ML 2.2
	e Sg N	11:44:06.4	-0.4					
TNS	e Pg Z	11:44:06.9	0.1			184.1	140.7	ML 2.1
	e Sg N	11:44:29.2	1.0					
WLF	e Pg Z	11:44:11.2	-0.1			211.1	192.9	
	e Sg N	11:44:36.0	0.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/15	21:06:07.2	+ - 0.64	51.650N	7.750E	10.0	4.4	157	1G		6	3	207	2.0ML		SZGRF	I
2001/12/15	21:06:06.5	+ - 0.46	51.620N	7.830E	6.7	5.6	142	1G		6	4	113	2.0ML	BUG	BGR	I
2001/12/15	21:06:05.4		51.656N	7.748E				1G					1.9ML		BUG	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	21:06:13.3	1.0	TA		40.8	234.3	ML 1.9
	e Sg E	21:06:19.1	2.1					
IBBN	e Pg Z	21:06:19.6	1.9			72.4	0.5	ML 1.8
TNS	e Pn Z	21:06:33.1	0.4			166.7	162.6	ML 1.9
	e Pg Z	21:06:34.3	0.6					
	e Sg E	21:06:52.5	-0.5					
CLZ	e Pg Z	21:06:36.6	0.4			181.8	82.4	ML 2.0
	e Sg N	21:06:59.2	1.8					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/17	19:09:41.6		49.264N	8.340E				14G		15	7		2.4ML		LDG	L
2001/12/17	19:09:42.5	+ - 0.49	49.240N	8.340E	8.9	4.4	86	10G		5	3	176	1.6ML	BFO	BGR	L

Speyer/Upper Rhine Graben

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	19:09:59.0	-0.6	T		101.2	180.4	ML 1.6
	e Sg N	19:10:12.0	0.6	T				
TNS	e (Pg) Z	19:10:01.1	0.1	T		109.5	4.0	ML 1.5
	e Sg N	19:10:13.6	-0.1	T				
WLF	e (Sg) E	19:10:29.7	0.1	T		165.0	287.5	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/18	01:14:16.8		47.046N	11.298E				10G		37	23		2.7ML		LDG	L
2001/12/18	01:14:13.7		46.907N	11.311E				10					2.7ML		NEIC	
2001/12/18	01:14:13.7	+ - 1.05	46.880N	11.320E	14.5	5.6	168	10G		10	4	268	2.6ML		SZGRF	L

E Oetztaler Alps, N Sarntaler Alps/A

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
OGA	i Pg +	01:14:16.8	-1.1			22.4	266.6	
SCE	i Pg +	01:14:19.6	-0.2			34.5	59.1	ML 2.2
	i Sg	01:14:24.0	0.0					
FUR	i Pg -	01:14:39.1	1.1			142.7	358.7	ML 2.7

BFO	i Sg		01:14:56.4	1.8	T	276.1	306.8	ML	2.5
	e Pn	Z	01:14:55.2	1.9	T				
	e Sn	N	01:15:27.0	5.3	T				
	e Sg	N	01:15:31.1	-1.6	T				
WET	e Pn	Z	01:14:54.4	1.0	T	277.1	24.1	ML	2.7
	e Sn	N	01:15:25.3	3.4	T				
	e Sg	E	01:15:32.4	-0.5	T				
GEC2	e Pn	Z	01:14:55.5	1.5	T	281.6	38.2	ML	2.6
	e Sn	N	01:15:27.2	4.4	T				
	e Sg	E	01:15:34.2	-0.0	T				
GRA1	e Sn	E	01:15:35.2	5.8	T	312.8	358.7		
BRG	e Sg		01:16:30.1	-1.8		483.6	22.4		
CLL	e Sg		01:16:38.0	-0.7		507.3	13.3		

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/18	16:50:17.1		47.128N	6.259E				8G		20	11		2.2ML		LDG	L

SE of Besancon/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e (Sg) N	16:51:16.1	0.5			204.6	48.4	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/19	07:05:54.4		48.183N	9.102E				5G		7	4		2.4ML		LDG	L

Sigmaringen/Donau

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	07:06:04.4	-0.1			59.5	286.2	
	e (Sg) N	07:06:11.6	0.2					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/19	12:38:04.3		49.358N	6.905E				1G		23	9		2.9ML		LDG	L
2001/12/19	12:38:04.6	+- 0.58	49.360N	6.890E	7.8	6.7	64	1G		5	3	165	2.1ML	BFO	BGR	I
2001/12/19	12:38:05.2	+- 0.59	49.360N	6.890E	7.8	6.7	65	1G		5	3	165	2.0ML		SZGRF	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg Z	12:38:15.3	-0.5	T		63.1	302.7	ML 1.6
TNS	e Pg Z	12:38:28.9	-1.2	T		147.3	48.8	ML 2.2
	e Sg N	12:38:47.5	0.2	T				
BFO	e Pg Z	12:38:30.7	-0.9	T		155.6	136.8	ML 2.1
	e Sg N	12:38:49.4	-0.3	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/20	08:30:55.3		50.387N	5.475E				6G		30	11		2.7ML		LDG	L
2001/12/20	08:30:56.0	+- 1.03	50.510N	5.710E	14.5	5.6	106	10G		5	3	244	2.2ML	BUG	BGR	L

S of Verviers/B, Spa

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 08:31:12.2	-0.7	T	1.3	99.2	161.3	ML 1.9
	e Sg	E 08:31:24.4	-0.2	T				
BUG	e Pg	Z 08:31:20.9	-0.7	T	1.4	150.4	45.9	ML 2.2
	e Sg	N 08:31:38.6	-0.5	T				
TNS	e Sg	N 08:31:52.7	0.4	T		196.7	98.3	
BFO	e (Sn)	N 08:32:11.6	0.9			307.6	141.0	

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/20	21:56:	7.3	+ - 0.67	51.360N	16.310E	6.7	5.6	11	1G		16	8	294	4.3ML		SZGRF	I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pn	Z 21:56:35.2	-0.3	T		173.9	252.8	ML 3.8
	e Sg	E 21:56:57.1	0.1	T				
CLL	e Pn	Z 21:56:41.9	-0.4	T		229.8	269.8	ML 4.0
	e Sg	E 21:57:13.5	0.5	T				
GEC2	e Pn	Z 21:56:57.3	2.1	T		335.8	214.6	ML 4.1
	e Sg	E 21:57:43.2	-0.1	T				
MOX	e Pn	Z 21:56:56.0	0.5	T		337.9	258.2	ML 4.4
	e Sg	E 21:57:44.5	0.6	T				
WET	e Pn	Z 21:56:58.4	1.8	T		346.7	226.0	ML 4.1
	e Sg	N 21:57:45.8	-0.6	T				
GRA1	e Pn	Z 21:57:05.5	1.9	T		404.5	244.7	ML 4.8
	e Sg	E 21:58:02.9	-0.0	T				
CLZ	e Pn	Z 21:57:05.5	0.8	T		413.4	279.8	ML 4.4
	e Sg	N 21:58:05.7	0.3	T				
TNS	e Pn	Z 21:57:24.6	1.3	T		566.6	260.2	ML 4.7
	e Sg	E 21:58:50.3	1.0	T				

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/21	22:10:	32.4		49.380N	6.860E				1G		25	11		2.8ML		LDG	I
2001/12/21	22:10:	33.1	+ - 0.41	49.350N	6.860E	6.7	3.3	28	1G		9	5	168	2.1ML	BFO	BGR	I
2001/12/21	22:10:	33.8	+ - 0.57	49.360N	6.890E	6.7	5.6	50	1G		7	4	165	2.0ML		SZGRF	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 22:10:43.8	-0.7	T		63.1	302.7	ML 1.6
	e Sg	E 22:10:50.5	-1.3					
TNS	e Pg	Z 22:10:57.4	-1.3	T		147.3	48.8	ML 2.2
	e Sg	E 22:11:15.5	-0.3	T				
BFO	e Pg	Z 22:10:59.2	-0.9	T		155.6	136.8	ML 2.1
	e Sg	Z 22:11:17.7	-0.5	T				
GRA1	e Pg	Z 22:11:25.7	-1.4	T		314.8	81.6	
	e Sg	E 22:12:04.3	0.6	T				
WET	e Pn	Z 22:11:33.9	0.1		2.0	435.2	90.9	
	e Sg	E 22:12:38.6	0.5					
GEC2	e Pn	Z 22:11:41.9	0.4		4.2	499.0	94.0	

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
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2001/12/25 10:05:54.4 +- 1.37 51.220N 6.730E 17.8 6.7 85 1G 5 3 258 2.0ML TNS BGR I

Duesseldorf

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg	Z	10:06:01.8	-0.2	T	8.4	44.8	56.6	ML 1.8
	e Sg	E	10:06:07.5	0.3	T				
IBBN	e Pg	E	10:06:18.0	-0.2	T	2.0	140.0	29.9	ML 2.0
	e Pg	Z	10:06:22.9	0.7	T				
TNS	e Pg	Z	10:06:22.9	0.7	T	1.8	164.1	131.9	ML 2.0
	e Sg	E	10:06:40.9	-0.4	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/25	13:40:17.9		49.362N	6.921E				1G		39	16		3.0ML		LDG	L
2001/12/25	13:40:19.1	+- 0.43	49.350N	6.930E	5.6	3.3	37	1G		9	5	164	2.4ML		SZGRF	I
2001/12/25	13:40:18.0	+- 0.38	49.370N	6.850E	5.6	3.3	28	1G		20	9	166	2.5ML	TNS	BGR	I

Saarbruecken-West

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z	13:40:29.0	0.8	T	11.9	60.1	303.3	ML 1.8
	e Sg	E	13:40:35.6	0.4	T				
TNS	e Pg	Z	13:40:42.7	-0.5	T	9.9	148.7	49.8	ML 2.5
	e Sg	E	13:41:00.8	0.3	T				
BFO	e Pg	Z	13:40:44.8	-0.1	T	13.7	158.4	136.3	ML 2.3
	e Sg	E	13:41:02.4	-0.8	T				
BUG	e Pg	Z	13:40:56.8	-0.6	T	2.0	232.1	7.2	ML 2.7
	e Sg	N	13:41:23.7	-0.6	T				
GRFO	e Sg	E	13:41:49.3	0.7	T		317.4	81.9	ML 2.8
GRA1	e Sg	E	13:41:48.0	-0.7	T		317.5	81.9	ML 2.9
MOX	e Pn	Z	13:41:10.8	0.9	T	1.0	368.8	65.6	ML 2.8
	e Pg	Z	13:41:18.6	-1.9	T				
	e Sn	N	13:41:49.2	1.9	T				
WET	e Sg	N	13:42:04.4	1.0	T	5.3	438.1	91.0	ML 2.9
	e Pn	Z	13:41:18.7	0.4	T				
	e Pg	Z	13:41:30.8	-1.4	T				
CLL	e Sg	N	13:42:23.6	0.4	T		486.7	61.4	
	e Sg	E	13:42:36.8	-0.2	T				
GEC2	e Pn	Z	13:41:26.8	0.6	T	12.9	502.0	94.1	
	e Sn	N	13:42:17.1	1.7	T				
	e Sg	N	13:42:41.4	-0.0	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/27	13:50:28.0		47.304N	12.003E				10					2.3ML		NEIC	
2001/12/27	13:50:26.9	+- 0.80	47.370N	12.010E	8.9	5.6	158	10G		9	5	255	2.3ML		SZGRF	L
2001/12/27	13:50:27.6	+- 0.62	47.390N	12.070E	5.6	3.3	164	10G		22	9	255	2.5ML	FUR	BGR	L

Western Kitzbuehler Alps/A

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
SCE	i Pg	-	13:50:36.0	0.1			47.6	214.9	
	i Sg		13:50:41.8	0.3					
OGA	e Pg		13:50:44.7	0.4			98.1	234.1	
FUR	e Pg	Z	13:50:45.8	0.4	T	3.1	104.5	325.6	ML 2.5
	e Sg	N	13:50:58.4	0.8	T				

GRC1	e	Pn	Z	13:50:55.9	0.0				183.1	347.4	ML	2.1
	e	Sg	E	13:51:20.0	-0.1							
GEC2	e	Pn	Z	13:50:59.1	1.0	T	3.0	202.1	36.2	ML	2.2	
	e	Pg	Z	13:51:01.5	-0.4	T	2.9					
	e	Sn	E	13:51:22.2	2.3	T						
	e	Sg	E	13:51:25.5	0.0	T						
WET	e	Pn	Z	13:50:58.9	0.6	T	7.9	204.0	16.8	ML	2.1	
	e	Pg	Z	13:51:02.2	-0.0	T	4.6					
	e	Sn	E	13:51:21.9	1.5	T						
	e	Sg	E	13:51:25.6	-0.4	T						
STU	e	Sg	N	13:51:42.2	-0.6	T		263.1	306.8			
GRFO	e	Pg	N	13:51:12.3	0.0	T	1.4	263.4	346.6	ML	2.3	
	e	Sg	E	13:51:42.6	-0.3	T						
GRA1	e	Sg	E	13:51:43.2	0.3			263.5	346.6	ML	2.5	
BFO	e	Pn	Z	13:51:11.7	1.9	T	2.8	297.9	291.9	ML	2.5	
	e	Pg	Z	13:51:18.4	0.3	T	1.2					
	e	Sn	E	13:51:41.6	1.4	T						
	e	Sg	E	13:51:51.9	-0.9	T						
MOX	e	Sn	N	13:51:55.7	1.6	T		363.4	354.9	ML	2.5	
	e	Sg	N	13:52:11.1	-0.4	T						
BRG	e	Pg	Z	13:51:36.8	-0.4	T	1.3	410.5	18.7	ML	2.6	
	e	Sg	E	13:52:25.2	0.2	T						
TNS	e	Sn	E	13:52:07.4	3.2	T		411.7	321.2			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/27	16:02:58.0		49.378N	6.836E				1G		19	9		2.7ML		LDG	L
2001/12/27	16:02:59.4	+ - 0.45	49.340N	6.910E	7.8	4.4	34	1G		6	3	167	1.8ML		SZGRF	I
2001/12/27	16:02:58.6	+ - 0.42	49.350N	6.860E	6.7	4.4	34	1G		8	5	168	2.1ML	TNS	BGR	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 16:03:09.3	0.3	T	3.4	61.9	304.7	ML 1.4
	e Sg	E 16:03:16.0	-0.3	T				
TNS	e Pg	Z 16:03:23.2	-0.8	T	4.2	149.6	49.0	ML 2.1
	e Sg	N 16:03:41.6	0.2	T				
BFO	e Pg	Z 16:03:25.2	0.1	T	6.9	156.3	136.0	ML 1.9
	e Sg	E 16:03:42.7	-0.5	T				
WET	e Pn	Z 16:03:59.6	0.8	T	1.6	437.3	90.7	
GEC2	e Pn	Z 16:04:07.5	0.8	T	4.8	501.1	93.8	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/27	20:45:57.7		49.341N	6.855E				1G		19	7		2.5ML		LDG	L
2001/12/27	20:45:57.9	+ - 0.42	49.330N	6.840E	6.7	4.4	35	1G		8	5	172	2.0ML	TNS	BGR	I

Saarbruecken-West

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z 20:46:08.6	0.2	T	2.7	62.0	307.1	
	e Sg	E 20:46:15.3	-0.3	T				
TNS	e Pg	Z 20:46:22.8	-0.9	T	3.0	152.2	48.7	ML 2.0
	e Sg	N 20:46:41.5	0.2	T				
BFO	e Pg	Z 20:46:24.4	0.1	T	5.3	155.7	135.0	ML 1.9
	e Sg	E 20:46:42.1	-0.2	T				

WET	e	Pn	Z	20:46:58.8	0.5	T	1.6	438.7	90.4
GEC2	e	Pn	Z	20:47:06.7	0.6	T	3.6	502.4	93.6

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/28	16:58:23.8		49.381N	6.862E				1G		23	9		2.6ML		LDG	L
2001/12/28	16:58:25.1	+ - 0.58	49.360N	6.890E	8.9	6.7	66	1G		5	3	165	1.9ML		SZGRF	I
2001/12/28	16:58:24.5	+ - 0.42	49.370N	6.890E	6.7	4.4	32	1G		7	4	164	2.2ML	TNS	BGR	I

Saarbruecken-West

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	Z	16:58:35.3	0.2	T	2.4	62.5	301.9	ML 1.7
	e Sg	E	16:58:42.1	-0.3	T				
TNS	e Pg	Z	16:58:49.3	-0.0	T	3.8	146.5	49.1	ML 2.2
	e Sg	N	16:59:06.1	-0.2	T				
BFO	e Pg	Z	16:58:50.8	-0.2	T	3.5	156.4	137.1	ML 1.9
	e Sg	E	16:59:08.9	-0.2	T				
GEC2	e Pn	Z	16:59:33.2	0.9	T	4.8	499.1	94.1	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/29	11:52:40.8	+ - 0.90	47.400N	12.130E	10.0	4.4	165	10G		11	5	256	2.2ML	FUR	BGR	L

Kufstein, Woergl/A

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
SCE	i Pg	-	11:52:48.2	-1.5			51.2	218.4	
	i Sg		11:52:53.7	-2.0					
FUR	e Pg	Z	11:52:59.4	0.5	T	1.8	106.2	323.3	ML 2.2
	e Sg	N	11:53:12.3	1.0	T				
GEC2	e Pn	Z	11:53:11.1	0.1	T	1.0	198.5	35.4	ML 1.8
	e Sg	E	11:53:37.5	-0.1	T				
WET	e Pn	Z	11:53:11.4	0.1	T	1.0	201.7	15.7	ML 1.9
	e Pg	Z	11:53:14.2	-0.9	T	1.9			
	e Sn	E	11:53:34.1	1.0	T				
	e Sg	E	11:53:37.6	-0.9	T				
GRFO	e Sg	N	11:53:56.2	0.0	T		263.4	345.6	
BFO	e Sn	N	11:53:54.6	0.3	T		301.7	291.4	
	e Sg	N	11:54:05.8	-1.3	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/29	20:44:31.2		52.336N	7.609E				4G		24	13		3.0ML		LDG	L
2001/12/29	20:44:30.5	+ - 0.52	52.300N	7.740E	10.0	5.6	118	1	+ - 3.2	12	6	213	2.9ML		SZGRF	I
2001/12/29	20:44:31.5	+ - 0.44	52.310N	7.740E	6.7	4.4	129	1G		21	10	201	2.8ML	BUG	BGR	I

Tecklenburg/Ibbenbueren, W of Osnabrueck

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
IBBN	e Pg	Z	20:44:30.5	-1.3	T		1.2	105.4	ML 3.1
	e Sg	N	20:44:31.3	-0.7	T				
BUG	e Pg	Z	20:44:48.0	-0.8	T		101.9	198.7	ML 2.8
	e Sg	N	20:45:02.3	1.7	T				
TNS	e Pg	Z	20:45:10.6	-1.1	T		237.3	167.8	ML 2.9

BSEG	e	Sg	E	20:45:39.9	0.6	T	2.4	249.4	42.6	ML	2.6
	e	Sg	E	20:45:43.8	1.0	T					
WLF	e	Pn	Z	20:45:17.7	0.9	T	1.6	314.4	201.3	ML	2.9
	e	Sg	E	20:45:58.5	-2.9	T					
MOX	e	Pn	Z	20:45:18.7	0.5	T	1.1	326.0	123.1	ML	2.8
	e	Pg	Z	20:45:28.2	1.4	T	1.0				
	e	Sg	N	20:46:05.7	1.0	T					
CLL	e	Pn	Z	20:45:25.4	0.8	T	1.4	378.5	105.0		
	e	Sg	N	20:46:18.8	-0.8	T					
GRA1	e	Pn	Z	20:45:24.6	-0.1			379.5	138.7		
	e	Sg	N	20:46:19.0	-1.0						
GRFO	e	Pn	Z	20:45:24.6	-0.2	T	1.3	379.5	138.7		
	e	Sg	N	20:46:19.0	-0.9	T					
BFO	e	Pn	Z	20:45:31.8	-0.8	T	1.5	444.5	174.4		
	e	Sn	N	20:46:18.3	1.5	T					
	e	Sg	E	20:46:39.5	0.9	T					
BRG	e	Sg		20:46:44.9	2.8			457.1	108.0	ML	2.7
WET	e	Sg	E	20:46:56.5	0.9	T		504.5	132.2		

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2001/12/30	09:38:23.2		49.367N	6.927E				1G		15	6		2.3ML		LDG	L
2001/12/30	09:38:24.0	+ - 0.56	49.350N	6.890E	8.9	6.7	64	1G		6	4	167	1.8ML	TNS	BGR	I

Saarbruecken-West

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e	Pg	Z 09:38:34.9	0.1	T	2.0	63.7	303.6	
TNS	e	Pg	Z 09:38:48.1	-1.0	T	1.4	148.0	48.5	ML 1.8
	e	Sg	N 09:39:06.9	0.6	T				
BFO	e	Pg	Z 09:38:50.4	0.1	T	3.1	154.8	136.6	
	e	Sg	E 09:39:08.2	-0.0	T				
GEC2	e	Pn	Z 09:39:32.5	0.7	T	1.7	498.9	93.9	

Unassociated arrivals

Sta	Phase	Date	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e	Sg	2001/12/01 11:03:33.5						
BRG	e	Sg	2001/12/03 21:13:57.6						
CLL	e	Sg	2001/12/04 08:31:49.0						
BRG	e	Sg	2001/12/05 11:16:24.2						
BRG	e	Sg	2001/12/05 16:11:13.9						
OGA	i	Pg +	2001/12/05 18:10:27.7						
ROTZ	e	Pg	2001/12/05 18:10:31.3						
ROTZ	i	Sg	2001/12/05 18:10:49.3						
BRG	e	Sg	2001/12/06 08:55:27.8						

BRG	e	Sg	2001/12/07	20:50:48.4
BRG	e	Sg	2001/12/08	05:54:29.5
BRG	e	Sg	2001/12/09	02:56:04.2
BRG	e	Sg	2001/12/09	04:57:35.5
BRG	e	Sg	2001/12/09	14:37:45.3
BRG	e	Sg	2001/12/10	02:58:38.7
MOX	e	(Sg)	2001/12/10	17:43:14.4
BRG	e	Sg	2001/12/11	09:34:02.0
BRG	e	Sg	2001/12/12	03:14:37.1
BRG	e	Sg	2001/12/12	07:48:29.4
BRG	e	Sg	2001/12/12	20:00:43.2
SCE	i	Pg -	2001/12/12	22:39:59.0
SCE	i	Sg	2001/12/12	22:40:05.2
SCE	i	Pg -	2001/12/12	22:43:44.7
SCE	i	Sg	2001/12/12	22:43:54.4
BRG	e	Sg	2001/12/13	07:15:37.8
BRG	e	Sg	2001/12/14	05:21:14.2
BRG	e	Sg	2001/12/14	15:14:25.3
BRG	e	Sg	2001/12/16	08:33:41.7
CLL	e	Sg	2001/12/16	19:48:00.0
CLL	i	Sg	2001/12/16	20:17:46.2
OGA	i	Pg -	2001/12/16	22:24:54.6
BRG	e	Sg	2001/12/18	00:58:10.2
BRG	e	Sg	2001/12/18	08:26:37.2
BRG	e	Sg	2001/12/18	20:23:33.5
BRG	e	Sg	2001/12/19	19:14:48.0
CLL	e	Sg	2001/12/22	05:45:22.0
BRG	e	Sg	2001/12/22	15:42:03.3
SCE	i	Pg -	2001/12/23	02:06:09.0
SCE	i	Sg	2001/12/23	02:06:13.8
SCE	i	Pg +	2001/12/24	11:36:57.0

SCE	i	Sg	2001/12/24	11:37:05.4
OGA	e	Pg	2001/12/24	12:16:13.5
CLL	i	Sg	2001/12/24	15:17:14.8
CLL	e	Sg	2001/12/24	16:46:21.0
CLL	e	Sg	2001/12/25	05:48:35.0
CLL	e	Sg	2001/12/25	06:02:33.0
CLL	e	Sg	2001/12/25	07:55:05.0
BRG	e	Sg	2001/12/25	18:04:35.2
CLL	i	Pg	2001/12/27	18:40:14.3
CLL	e	Sg	2001/12/27	18:41:15.0
CLL	e	Sg	2001/12/27	19:08:03.0
CLL	e	Sg	2001/12/27	19:46:33.0
BRG	e	Sg	2001/12/28	01:31:01.0
BRG	e	Sg	2001/12/28	08:27:11.8
CLL	i	Sg	2001/12/28	23:06:43.7
CLL	i	Sg	2001/12/28	23:22:41.3
CLL	e	Sg	2001/12/28	23:57:15.0
CLL	i	Sg	2001/12/29	00:35:24.9
CLL	i	Sg	2001/12/29	00:49:30.7