

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/01	14:48:24.7		51.129N	5.834E				10					3.0ML		NEIC	
2002/10/01	14:48:27.3	+ - 0.14	51.105N	6.023E	2.7	2.2	140	11G		21	13	154	3.0ML		LDG	L
2002/10/01	14:48:24.6	+ - 1.53	51.150N	6.030E	28.9	6.7	112	10G		5	3	236	2.7ML		SZGRF	L
2002/10/01	14:48:26.9	+ - 0.86	51.100N	6.060E	11.1	4.4	110	10G		9	5	222	2.5ML	WLF	BGR	L
2002/10/01	14:48:28.3	+ - 0.69	51.109N	6.064E				11	+ - 5.0	10	6	321	2.3ML		BNS	L

Erkelenz, SW of Moenchengladbach

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
KLL	e Pg Z	14:48:37.1	-0.6	T		54.2	161.2	
	e Sg E	14:48:45.0	0.8	T				
STB	e Pg - Z	14:48:42.0	0.2	T		79.0	136.2	
	e Sg N	14:48:51.2	0.1	T				
BUG	e Pg Z	14:48:42.6	-1.3		5.0	91.6	65.8	ML 2.9
	e Sg N	14:48:54.1	-0.6					
HIL	e Pg Z	14:48:45.0	-0.5	T		100.6	154.2	
	e Sg N	14:48:56.9	-0.3	T				
BGG	i Pg + Z	14:48:49.7	-1.5	T		134.6	137.7	
	e Sg E	14:49:05.7	-1.2	T				
KOE	e Pg Z	14:48:49.7	-2.4	T		139.9	122.3	
	e Sg N	14:49:06.3	-2.1	T				
WLF	e Pg Z	14:48:54.0	-1.6		1.8	160.7	177.7	ML 2.5
	e Sg E	14:49:12.8	-1.5					
IBBN	e Pg Z	14:48:54.8	-3.5			177.1	40.5	ML 2.6
	e Sg E	14:49:16.9	-2.1					
TNS	e Pn Z	14:48:57.5	-0.3		1.1	194.7	119.5	ML 2.2
	e Pg Z	14:49:00.3	-1.1		2.5			
	e Sg E	14:49:22.7	-1.3					
BFO	e Sg N	14:50:05.9	-2.3			349.2	151.3	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/04	21:45:41.8	+ - 0.41	50.310N	7.310E	6.7	5.6	138	10G		6	3	133	2.0ML		SZGRF	L
2002/10/04	21:45:40.4	+ - 0.39	50.320N	7.310E	4.4	4.4	128	5G		7	5	129	1.7ML	WLF	BGR	L

Mayen/Eifel, W of Koblenz

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
TNS	e Pg Z	21:45:56.0	1.7			81.5	97.2	ML 1.7
	e Sg N	21:46:04.1	0.4	T				
WLF	e Pg Z	21:45:58.9	-0.2	T	6.3	110.3	229.1	ML 1.7
	e Sg N	21:46:12.3	0.4	T				
BUG	e Pg Z	21:46:01.6	0.1	T	1.9	124.6	358.7	ML 2.2
	e Sg E	21:46:15.8	-0.2	T				
BFO	e Sg N	21:46:47.0	-0.1	T		233.3	161.1	ML 2.0
MOX	e Sg N	21:47:08.3	0.3	T		306.7	81.6	ML 2.2

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/06	00:27:13.5	+ - 0.92	51.440N	10.630E	12.2	6.7	163	1G		6	4	224	2.0ML		SZGRF	I
2002/10/06	00:27:10.9	+ - 0.58	51.510N	10.500E	5.6	3.3	2	1G		10	8	187	2.3ML	CLL	BGR	I

Bleicherode, S Harz Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
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MOX	e	Pg	Z	00:27:32.8	1.0	T	6.8	123.8	140.6	ML	1.9
	e	Sg	E	00:27:46.8	0.5	T					
CLL	e	Pg	Z	00:27:40.8	0.3	T	3.0	175.0	96.4	ML	2.3
	e	Sg	E	00:28:00.8	-0.1	T					
TNS	e	Sg	N	00:28:09.2	0.3	T		203.1	226.0	ML	2.0
GRFO	e	Sg	N	00:28:10.8	0.3	T		208.6	165.6	ML	2.1
BUG	e	Sg	E	00:28:14.8	-0.1	T		223.9	269.3	ML	2.3
BRG	e	Sg	N	00:28:22.6	0.3	T		250.1	105.1	ML	2.1
WET	e	Sg	E	00:28:39.7	-0.5	T		312.5	146.4	ML	2.2
GEC2	e	Sg	E	00:28:57.7	-0.0	T		373.8	141.2	ML	2.3

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/06	12:54:04.9	+-	0.06	49.152N	6.801E	1.4	1.1	110	1G		15	9	70	2.2ML		LDG	I?
2002/10/06	12:54:04.9	+-	0.54	49.150N	6.840E	8.9	4.4	44	1G		6	3	189	1.6ML	BFO	BGR	I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg Z	12:54:18.5	0.8	T	2.2	75.8	319.3	ML 1.4
	e Sg N	12:54:25.9	-0.6	T				
BFO	e Pg Z	12:54:29.2	0.2	T	3.1	142.3	129.3	ML 1.6
	e Sg E	12:54:45.1	-0.4	T				
TNS	e Pg Z	12:54:33.6	0.6	T	1.5	166.1	43.5	ML 1.7
	e Sg E	12:54:52.3	-0.0	T				

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/06	22:03:12.4	+-	1.11	51.640N	7.816E				3	+-6.3	11	7	318	2.1ML		BNS	I
2002/10/06	22:03:11.8	+-	0.33	51.570N	7.800E	3.3	3.3	163	1G		11	7	109	2.1ML	TNS	BGR	I
2002/10/06	22:03:10.7			51.648N	7.768E				1G					2.0ML		BUG	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	22:03:18.7	1.0	TA		41.5	236.4	ML 2.0
	e Sg N	22:03:23.9	1.3					
IBBN	e Pg Z	22:03:25.4	2.3		5.7	73.3	359.4	ML 2.1
	e Sg E	22:03:35.5	3.9					
BNS	e Pg Z	22:03:27.9	2.5			86.5	208.6	
	e Sg E	22:03:38.2	2.7					
STB	e Pg Z	22:03:34.3	0.9			134.0	209.3	
	e Sg E	22:03:51.2	2.2					
KOE	e Pg Z	22:03:34.4	0.7			136.0	181.0	
	e Sg E	22:03:51.4	1.9					
KLL	e Pg Z	22:03:36.5	0.2			150.7	222.9	
	e Sg N	22:03:54.4	0.7					
BGG	e Pg Z	22:03:38.2	-0.1			163.1	190.9	
	e Sg E	22:03:56.0	-1.3					
TNS	e Pg Z	22:03:38.3	-0.4		5.6	165.5	163.0	ML 2.1
	e Sg N	22:03:56.9	-1.1					
HIL	e Sg N	22:03:59.7	0.8			168.9	207.2	
WLF	e Pg Z	22:03:52.6	-0.1		2.7	248.2	207.9	ML 2.3
	e Sg E	22:04:20.5	-1.1					
MOX	e Sg E	22:04:33.7	-0.1			290.6	111.1	ML 2.3
CLL	e Sg N	22:04:55.5	0.6			364.4	93.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/08	11:20:41.2		49.630N	6.230E				1					2.0ML		NEIC	
2002/10/08	11:20:38.0	+ - 1.98	49.760N	5.970E	20.0	8.9	95	0G		5	3	301	2.2ML	TNS	BGR	B

Arlon/B, Belgian-Luxembourg border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg Z	11:20:40.6	-0.2	T	2.2	16.9	128.9	ML 1.8
	e Sg E	11:20:42.7	-0.1	T				
TNS	e Pg Z	11:21:09.4	0.2	T	3.3	184.4	72.9	ML 2.2
	e Sg E	11:21:30.7	0.1	T				
BFO	e Sg E	11:21:44.9	0.1	T		234.2	131.9	ML 2.2

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/10	02:19:23.0	+ - 0.79	51.600N	16.070E	16.7	7.8	169	1G		13	7	307	3.2ML		SZGRF	I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pn Z	02:19:50.4	-0.2	T		168.7	242.2	ML 3.1
	e Pg Z	02:19:52.0	0.4	T				ML 3.0
	e Sg E	02:20:10.9	-0.3	T				
	e Sn N	02:20:11.5	1.5	T				
CLL	e Pn Z	02:19:56.4	0.2	T	215.0	262.5	ML 3.0	
	e Sg N	02:20:24.5	0.0	T				
MOX	e Pn Z	02:20:10.6	0.6	T	328.5	252.9	ML 3.5	
	e Sg N	02:20:58.5	1.6	T				
GEC2	e Pn Z	02:20:14.2	1.6	T	349.6	209.7		
WET	e Pn Z	02:20:14.1	0.9	T	354.6	220.9		
GRA1	e Pn Z	02:20:20.2	1.2	T	402.2	240.1		
GRFO	e Pn Z	02:20:20.5	1.5	T	402.4	240.1		
	e Sg E	02:21:17.6	-0.4	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/10	17:18:46.6	+ - 0.69	51.470N	16.270E	10.0	8.9	55	1G		17	10	268	4.0ML		SZGRF	I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pn Z	17:19:14.9	0.0	T		175.3	248.7	ML 3.8
	e Pg Z	17:19:16.8	0.5	T				
	e Sn N	17:19:36.4	1.5	T				
RUE	e Pn Z	17:19:18.2	-0.2	T	203.9	304.2	ML 4.0	
	e Sn N	17:19:44.3	3.3	T				
CLL	e Pn Z	17:19:21.1	-0.2	T	227.4	266.7	ML 3.8	
	e Pg Z	17:19:24.5	-0.6	T				
	e Sn N	17:19:50.2	4.2	T				
MOX	e Pn Z	17:19:35.4	0.6	T	337.9	256.1	ML 4.3	
GEC2	e Pn Z	17:19:37.2	1.7	T	344.4	213.1		
WET	e Pn Z	17:19:38.0	1.4	T	353.3	224.3	ML 4.0	

GRFO	e	Pn	Z	17:19:44.9	1.6	T	407.6	242.9
	e	Sg	N	17:20:42.9	-0.1	T		
CLZ	e	Pn	Z	17:19:44.9	1.5	T	408.8	278.1
	e	Sg	N	17:20:42.8	-0.6	T		
TNS	e	Pn	E	17:20:03.8	1.2	T	566.1	258.9
BFO	e	Pn	Z	17:20:15.0	0.1	T	666.8	241.5

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/11	01:22:27.8	+- 0.32	51.648N	7.930E	5.5	4.4	125	1G		13	6	304	2.6ML		LDG	I?
2002/10/11	01:22:28.1	+- 1.29	51.685N	7.788E				4	+- 5.7	13	7	319	2.1ML		BNS	I
2002/10/11	01:22:28.7	+- 0.55	51.570N	7.720E	12.2	6.7	157	1G		7	4	194	2.1ML		SZGRF	I
2002/10/11	01:22:28.5	+- 0.49	51.580N	7.750E	8.9	4.4	158	1G		10	5	194	2.0ML	TNS	BGR	I
2002/10/11	01:22:26.8		51.656N	7.748E				1G					2.1ML		BUG	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	01:22:34.7	1.0	TA		40.8	234.3	ML 2.1
	e Sg E	01:22:40.5	2.1					
HOB	e Pg Z	01:22:41.8	1.4			80.1	201.2	
	e Sg N	01:22:52.9	3.2					
BNS	e Pg Z	01:22:43.8	2.3			86.6	207.5	
	e Sg E	01:22:55.3	3.8					
STB	e Pg Z	01:22:50.5	1.0			134.0	208.6	
	e Sg E	01:23:06.6	1.5					
KOE	e Pg Z	01:22:50.8	0.8			136.9	180.4	
	e Sg N	01:23:07.0	1.1					
KLL	e Pg Z	01:22:52.1	-0.2			150.4	222.3	
	e Sg E	01:23:10.6	0.8					
BGG	e Pg Z	01:22:55.6	1.1			163.7	190.3	
	e Sg E	01:23:13.8	0.2					
TNS	e Pg Z	01:22:55.5	0.4		4.1	166.7	162.6	ML 2.0
	e Sg N	01:23:14.7	0.2					
HIL	e Sg E	01:23:15.1	0.0			169.0	206.7	
CLZ	e Pn Z	01:22:56.8	0.9		1.1	181.8	82.4	ML 2.1
	e Pg Z	01:22:58.4	0.8		5.6			
	e Sg E	01:23:21.8	3.0					
WLF	e Sg E	01:23:35.9	-1.9			248.3	207.5	
MOX	e Pn Z	01:23:11.6	2.3		1.6	292.2	111.1	
	e Sg N	01:23:51.4	1.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/11	03:20:11.2	+- 0.28	50.801N	6.167E	5.3	2.7	163	10G		11	5	195	2.5ML		LDG	L
2002/10/11	03:20:11.0	+- 0.75	50.840N	6.350E	11.1	4.4	119	10G		6	4	217	2.1ML	BUG	BGR	L

Dueren

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg Z	03:20:27.1	0.3	T	1.2	92.6	43.5	ML 2.1
	e Sg E	03:20:38.0	0.4	T				
WLF	e Pg Z	03:20:33.5	0.1	T	2.2	131.4	186.2	ML 1.8
	e Sg E	03:20:48.4	-0.3	T				
TNS	e Sg N	03:20:58.6	0.8	T		163.4	114.0	
CLZ	e Sg N	03:21:36.1	-0.9	T		300.7	66.7	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/11	10:17:57.0	+ - 0.07	47.193N	5.538E	1.8	1.1	142	3G		22	9	94	2.2ML		LDG	I

near Dole/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/13	18:20:44.8	+ - 0.70	51.510N	16.250E	7.8	6.7	157	1G		14	8	294	3.4ML		SZGRF	I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pn Z	18:21:12.9	-0.3	T		175.7	247.1	ML 3.2
	e Sg N	18:21:34.5	-0.4	T				
CLL	e Pn Z	18:21:19.2	-0.1	T		226.3	265.6	ML 3.2
	e Sg N	18:21:48.7	-0.7	T				
MOX	e Pn Z	18:21:34.5	1.6	T		337.7	255.3	ML 3.5
	e Sg N	18:22:21.7	0.5	T				
GEC2	e Pn Z	18:21:35.2	1.2	T		347.4	212.5	ML 3.6
	e Sg N	18:22:24.8	0.8	T				
WET	e Pn Z	18:21:36.1	1.0	T		355.6	223.6	ML 3.4
	e Sg N	18:22:25.8	-0.6	T				
CLZ	e Pn Z	18:21:43.0	1.7	T		406.8	277.5	ML 3.4
GRA1	e Pn Z	18:21:43.1	1.6	T		408.3	242.3	ML 3.8
	e Sg N	18:22:42.1	0.7	T				
TNS	e Sg N	18:23:28.2	1.8	T		565.7	258.4	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/16	13:59:59.4	+ - 0.53	51.550N	7.750E	8.9	4.4	167	1G		6	3	188	2.0ML	TNS	BGR	I
2002/10/16	13:59:56.6		51.650N	7.748E				1G					2.0ML		BUG	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg + Z	14:00:04.5	1.0	TA		40.5	235.1	ML 2.0
	e Sg E	14:00:10.2	2.1					
TNS	e Pg Z	14:00:25.9	1.1		2.0	166.1	162.6	ML 2.0
	e Sg E	14:00:43.7	-0.3					
CLZ	e Pn Z	14:00:28.2	2.5		2.8	181.9	82.2	ML 2.1
	e Sg N	14:00:52.7	4.1					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/17	12:30:15.9	+ - 0.64	51.530N	16.250E	6.7	6.7	20	1G		16	10	269	4.0ML		SZGRF	I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pn Z	12:30:44.2	-0.2	T		176.5	246.5	ML 3.8
	e Sg N	12:31:05.8	-0.5	T				

RUE	e	Pn	Z	12:30:46.9	-0.1	T	199.1	302.9	ML	3.6
	e	Sg	N	12:31:13.0	0.3	T				
CLL	e	Pn	Z	12:30:50.3	-0.2	T	226.5	265.0	ML	3.7
	e	Sg	E	12:31:20.3	-0.3	T				
MOX	e	Pn	Z	12:31:04.6	0.5	T	338.2	254.9	ML	4.2
	e	Sg	N	12:31:52.9	0.4	T				
GEC2	e	Pn	Z	12:31:07.8	2.4	T	349.3	212.3	ML	4.0
WET	e	Pn	Z	12:31:08.0	1.6	T	357.2	223.4	ML	3.7
CLZ	e	Pn	Z	12:31:13.8	1.4	T	406.5	277.2	ML	3.8
	e	Sg	N	12:32:13.6	1.6	T				
GRA1	e	Pn	Z	12:31:14.2	1.5	T	409.3	242.0	ML	4.4
	e	Sg	E	12:32:13.1	0.3	T				
TNS	e	Sg	N	12:32:59.6	2.0	T	566.1	258.2	ML	4.3
STU	e	Sg	E	12:33:05.6	1.5	T	588.6	241.4	ML	4.6

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/19	19:09:35.1	+ -	0.78	51.490N	16.290E	7.8	6.7	74	1G		11	7	269	3.3ML		SZGRF	I

POLAND

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e	Pn	Z	19:10:03.7	-0.0	T	177.4	248.2	ML 2.9
	e	Sg	N	19:10:25.5	-0.3	T			
RUE	e	Pn	Z	19:10:07.2	0.3	T	203.9	303.5	ML 3.1
	e	Sg	N	19:10:34.5	1.2	T			
CLL	e	Pn	Z	19:10:10.0	-0.0	T	228.9	266.2	ML 2.9
	e	Sg	N	19:10:40.3	-0.2	T			
MOX	e	Sg	N	19:11:12.7	0.5	T	339.8	255.8	ML 3.4
GEC2	e	Pn	Z	19:10:26.2	1.8	T	347.0	213.1	ML 3.5
	e	Sg	E	19:11:15.0	0.7	T			
WET	e	Pn	Z	19:10:26.7	1.2	T	355.9	224.2	ML 3.3
GRA1	e	Sg	E	19:11:31.6	-0.6	T	409.7	242.8	ML 3.7

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/21	01:13:08.6	+ -	0.21	51.137N	5.914E	3.9	2.2	172	11G		32	14	213	2.8ML		LDG	I
2002/10/21	01:13:09.3	+ -	1.09	51.140N	6.040E	13.3	4.4	124	10G		7	4	250	2.6ML		SZGRF	L
2002/10/21	01:13:08.7	+ -	1.06	51.110N	6.010E	13.3	5.6	122	10G		8	4	250	2.6ML	BUG	BGR	L
2002/10/21	01:13:10.0	+ -	0.44	51.143N	6.010E				11	+ - 3.5	12	6	301	2.2ML		BNS	L

Erkelenz, SW of Moenchengladbach

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
KLL	e	Pg	Z	01:13:19.5	-0.7	T	59.1	158.9	
	e	Sg	E	01:13:27.6	0.4	T			
BNS	e	Pg -	Z	01:13:24.0	-0.3	T	83.9	103.3	
	e	Sg	E	01:13:34.5	0.3	T			
STB	i	Pg +	Z	01:13:24.3	-0.1	T	84.4	136.1	
	e	Sg	E	01:13:34.7	0.3	T			
BUG	e	Pg	Z	01:13:24.8	-1.2		20.3	93.6	68.8 ML 2.6
	e	Sg	N	01:13:36.3	-0.6				
HOB	i	Pg +	Z	01:13:25.7	-0.4	T	94.2	100.3	
	e	Sg	E	01:13:37.1	0.0	T			
HIL	e	Pg +	Z	01:13:27.4	-0.6	T	105.7	153.2	
	e	Sg	N	01:13:40.1	-0.3	T			

BGG	e Pg	Z	01:13:32.0	-1.7	T		139.9	137.6									
	e Sg	E	01:13:48.2	-1.9	T												
WLF	e Pg	Z	01:13:35.9	-2.1		2.5	164.7	176.4	ML	2.4							
	e Sg	E	01:13:55.4	-1.8													
TNS	e Pn	Z	01:13:39.5	-0.7			199.9	119.9	ML	2.6							
	e Pg	Z	01:13:42.0	-1.9		5.8											
	e Sg	N	01:14:05.2	-2.0													
CLZ	e (Sg)	E	01:14:35.4	-3.7			311.8	73.9									

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/21	03:00:28.9		48.000N	7.400E				10					1.7ML		SED	
2002/10/21	03:00:30.7	+ - 0.14	47.938N	7.399E	3.0	1.5	19	3G		20	9	163	2.2ML		LDG	L

Muellheim/Upper Rhine Graben, NE of Mulhouse/F

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z	03:00:44.5	-0.1		4.8	81.6	57.4	
	e Sg	E	03:00:55.6	1.5					
STU	e Sg	N	03:01:16.2	-0.7			161.7	54.4	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/21	12:49:27.5		49.750N	7.340E				10					2.3ML		NEIC	
2002/10/21	12:49:29.4	+ - 0.41	49.750N	7.400E	5.6	4.4	168	0G		7	4	150	2.3ML	TNS	BGR	B

Kirn/Nahe, E of Idar-Oberstein

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
WLF	e Pg	E	12:49:44.7	-0.0	T	2.5	90.2	264.4	ML 2.2
	e Sg	N	12:49:55.6	0.4	T				
TNS	e Pg	Z	12:49:44.3	-0.6	T	15.4	91.5	54.5	ML 2.3
	e Sg	N	12:49:56.2	0.7	T				
STU	e Pg	Z	12:49:57.9	-0.2	T	2.7	169.7	129.2	
BFO	e Pg	Z	12:49:58.1	-0.4	T	9.9	171.8	156.4	ML 2.6
	e Sg	E	12:50:18.8	0.3	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/21	21:04:52.3	+ - 0.24	47.261N	6.928E	6.6	2.1	101	2	+ - 0.0	7	4	226	2.0ML		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
2002/10/21	21:34:57.6	+ - 0.77	51.660N	7.750E	10.0	6.7	166	1G		5	3	208	2.1ML		SZGRF	I
2002/10/21	21:34:56.0		51.663N	7.735E				1G					2.0ML		BUG	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg	- Z	21:35:03.9	1.0	TA		40.6	232.6	ML 2.0
	e Sg	E	21:35:09.6	1.9					

TNS	e	Pg	Z	21:35:24.7	0.3	167.8	162.4
	e	Sg	N	21:35:45.2	1.3		
CLZ	e	Pg	Z	21:35:27.0	0.0	182.6	82.7

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/23	11:15:37.8	+ - 0.41	50.370N	7.380E	5.6	4.4	123	10G		7	5	127	2.1ML		SZGRF	L
2002/10/23	11:15:37.1	+ - 0.36	50.400N	7.370E	4.4	3.3	111	10G		9	5	129	2.2ML	BUG	BGR	L
2002/10/23	11:15:37.0	+ - 1.08	50.404N	7.357E				3	+ - 22.5	13	7	99	2.0ML		BNS	I

Neuwied, N of Koblenz

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BGG	i Pg + Z	11:15:41.0	0.2	T		22.0	183.9	
	i Sg E	11:15:43.5	0.1	T				
KOE	i Pg - Z	11:15:42.0	0.4	T		26.8	84.9	
	i Sg N	11:15:45.1	0.4	T				
STB	e Pg - Z	11:15:44.8	0.7	T		42.2	300.2	
	e Sg E	11:15:49.4	0.3	T				
HIL	e Pg Z	11:15:45.6	0.2	T		49.6	255.8	
	i Sg E	11:15:51.9	0.7	T				
BNS	e Pg Z	11:15:48.2	0.5	T		63.5	348.5	
	e Sg N	11:15:55.7	0.5	T				
HOB	e Pg Z	11:15:48.6	0.7	T		64.5	358.6	
	i Sg E	11:15:55.5	0.1	T				
KLL	e Sg N	11:16:00.1	0.6	T		78.7	290.5	
TNS	e Pg Z	11:15:50.5	-0.1		7.6	80.0	104.2	ML 2.0
	e Sg N	11:16:00.3	0.4					
BUG	e Pg Z	11:15:56.9	0.4		2.0	115.4	357.0	ML 2.2
	e Sg E	11:16:10.7	0.7					
WLF	e Pg Z	11:15:56.9	-0.3		1.7	119.0	226.8	ML 2.2
	e Sg E	11:16:11.1	0.1					
BFO	e Pg Z	11:16:18.4	0.5		2.3	241.1	162.6	ML 2.3
	e Sg N	11:16:45.4	-0.5					
CLZ	e Sg E	11:16:52.1	-0.4			264.2	51.6	ML 2.6

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/25	22:20:56.7	+ - 0.72	51.620N	7.790E	11.1	7.8	177	1G		5	3	199	2.1ML	TNS	BGR	I
2002/10/25	22:20:55.5		51.663N	7.734E				1G					2.0ML		BUG	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg + Z	22:21:03.3	0.9	TA		40.6	232.6	ML 2.0
	e Sg E	22:21:08.7	1.6					
TNS	e Pn N	22:21:24.7	1.8			167.8	162.4	ML 2.1
	e (Sg) E	22:21:42.5	-0.9					
CLZ	e Pn Z	22:21:25.2	0.5			182.7	82.7	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/26	21:36:52.0	+ - 0.33	48.364N	7.587E	7.5	2.6	122	3G		9	5	209	2.0ML		LDG	L

Selestat/F, SSW of Strasbourg/Upper Rhine Graben

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e (Pg)	Z 21:36:59.6	-1.8			55.0	93.6	
	e Sg	N 21:37:05.2	-2.6					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/29	00:12:46.3	+ - 0.08	47.762N	5.633E	1.9	1.3	132	2	+ - 0.0	18	8	84	2.1ML		LDG	L

S of Chalindrey/Haute-Saone/F

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/30	21:21:59.8	+ - 1.52	50.210N	18.640E	20.0	12.2	41	1G		8	6	319	3.2ML		SZGRF	I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pg	Z 21:22:54.5	-2.9	T		339.9	284.3	ML 3.0
	e Sg	N 21:23:38.1	1.1	T				
GEC2	e Pg	Z 21:23:03.8	-1.7	T		387.3	248.8	
CLL	e Sg	N 21:23:58.4	0.2	T		414.8	289.3	
WET	e Pg	Z 21:23:08.4	-4.4	T		431.0	256.3	ML 3.3
	e Sg	N 21:24:03.1	0.1	T				
MOX	e Sg	N 21:24:23.9	1.4	T		499.7	278.3	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
2002/10/31	01:01:24.5		47.734N	7.581E				10					2.2ML		NEIC	
2002/10/31	01:01:20.8		48.000N	7.500E				10					2.0ML		SED	
2002/10/31	01:01:20.8	+ - 0.04	47.965N	7.465E	0.9	0.8	167	3G		41	18	29	2.6ML		LDG	L
2002/10/31	01:01:21.5	+ - 2.54	47.980N	7.450E	26.7	15.6	50	10G		4	3	317	2.3ML		SZGRF	L
2002/10/31	01:01:22.8	+ - 1.06	48.010N	7.580E	8.9	6.7	41	10G		12	8	288	2.1ML	TNS	BGR	L
2002/10/31	01:01:20.7	+ - 0.12	47.962N	7.488E	1.6	1.4	0	5G		20	13	74	2.0ML		LED	L

Breisach/Upper Rhine Graben, W of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
LIBD	e Pg -	01:01:25.4	0.8	T		22.6	22.1	
	Sg	01:01:28.8	1.5	T				
FBB	e Pg +	01:01:25.9	0.4	T		27.5	80.6	
MOF	i Pg +	01:01:25.7	-0.0	T		29.2	245.3	
KIZ	i Pg +	01:01:26.3	0.1	T		32.0	91.0	ML 1.6
	Sg	01:01:30.5	0.5	T				
ECH	i Pg -	01:01:27.2	0.1	T		37.4	319.2	
	i Sg	01:01:31.8	0.3	T				
FELD	i Pg +	01:01:27.6	0.2	T		39.6	103.7	
	Sg	01:01:32.7	0.6	T				
WLS	i Pg -	01:01:29.9	0.4	T		51.1	348.8	
	Sg	01:01:36.0	0.6	T				
BBS	i Pg -	01:01:30.3	0.2	T		55.3	178.4	
BFO	Pg	01:01:33.8	0.4			74.7	56.4	ML 2.7
	Sg	01:01:42.7	0.6					
LOMF	i Pg -	01:01:35.7	0.7	T		84.1	216.3	

SPAK		Pg		01:01:38.4	1.1	T		97.8	80.3								
LANF		Pn		01:01:41.0	-0.3			115.6	11.6								
GUT	e	Pn +		01:01:41.9	-0.1			121.6	83.7								
	e	Pg +		01:01:42.2	0.9	T											
LBG		Pn		01:01:40.9	-1.5	T		124.2	50.6								
BUCH	e	Pn +		01:01:44.0	-1.3	T		148.4	67.9								
	e	Pg +		01:01:46.4	0.5	T											
		Sg		01:02:04.3	1.1	T											
STU	e	Sg	N	01:02:05.4	0.5			154.8	53.8					ML	2.7		
SWS		Sg		01:02:15.6	0.3			191.2	27.3								
UBR	i	Pg +		01:01:55.2	0.9			198.1	98.1					ML	2.1		
		Sg		01:02:18.5	1.1												
HDH		Pg		01:01:57.1	0.3			212.8	70.0					ML	2.2		
TNS	e	Pn	Z	01:01:59.1	0.1		0.9	260.9	15.2					ML	2.1		
	e	Sg	E	01:02:35.7	0.4												
FUR	e	Pg	Z	01:02:09.8	1.2		1.6	282.3	84.1					ML	2.6		
	e	Sg	N	01:02:42.3	0.9												
GRFO	e	Sg	N	01:02:55.4	-0.8			334.0	53.5					ML	2.5		
WET	e	Pg	Z	01:02:32.9	1.4		1.3	417.8	69.7								
	e	Sg	N	01:03:19.3	-0.8												
MOX	e	Sg	N	01:03:21.0	-0.4			422.4	43.5								
GEC2	e	Sg	N	01:03:33.7	-1.0			468.9	75.6								

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
2002/10/31 10:44:41.1 +- 0.33 47.489N 8.083E 5.7 2.9 82 2 +- 0.0 8 4 293 2.4ML LDG I

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

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	10:44:56.1	-1.2			95.3	11.0	
	e (Sg) N	10:45:07.3	-1.1					

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
2002/10/31 19:37:56.4 +- 1.04 51.540N 16.420E 20.0 12.2 65 1G 10 7 272 3.2ML SZGRF I

POLAND

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Pn Z	19:38:27.1	0.9	T		187.8	247.7	ML 3.0
	e Sn N	19:38:47.8	0.4	T				
RUE	e Pn Z	19:38:28.6	-0.1	T		208.5	301.0	ML 3.0
	e Sn E	19:38:54.7	2.9	T				
CLL	e Pn Z	19:38:31.9	-0.5	T		238.3	265.1	ML 2.9
	e Sn N	19:39:02.2	4.1	T				
MOX	e Pn Z	19:38:46.2	0.2	T		349.9	255.4	ML 3.4
GEC2	e Pn Z	19:38:49.4	2.6	T		356.6	213.9	ML 3.2
WET	e Pn Z	19:38:49.4	1.4	T		366.2	224.7	ML 3.0
GRA1	e Pn Z	19:38:55.5	1.0	T		420.2	242.8	ML 3.6

Date Origin Time OT_err Lat Long Smajor Sminor Az Depth D_err Ndef Nsta Gap Mag Ref Source Ev_type
2002/10/31 22:24:37.4 +- 0.10 49.154N 6.825E 1.9 1.7 18 1G 17 11 157 2.0ML LDG I?

Unassociated arrivals

Sta	Phase	Date	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	e Sg	2002/10/01	16:11:39.8						
CLL	e (Sg)	2002/10/01	20:24:51.0						
BRG	e Sg	2002/10/02	15:14:24.9						
BRG	e Sg	2002/10/02	15:32:23.3						
BRG	e Sg	2002/10/03	10:37:54.6						
CLL	e Sg	2002/10/03	10:38:16.0						
BRG	e Sg	2002/10/03	14:40:38.8						
BRG	e Sg	2002/10/04	04:26:41.4						
BRG	e Sg	2002/10/04	15:57:43.8						
BRG	e Sg	2002/10/04	19:16:14.9						
BRG	e Sg	2002/10/05	03:10:01.6						
BRG	e Sg	2002/10/05	23:38:20.2						
BRG	e Sg	2002/10/07	03:26:10.2						
BRG	e Sg	2002/10/07	16:04:56.7						
MOX	e Pg	2002/10/08	14:49:33.4						
MOX	e Sg	2002/10/08	14:49:42.7						
BRG	e Sg	2002/10/09	09:42:22.8						
BRG	e Sg	2002/10/09	18:04:10.4						
BRG	e Sg	2002/10/10	16:43:37.9						
BRG	e Sg	2002/10/11	00:14:37.9						
BRG	e Sg	2002/10/12	00:12:21.1						
BRG	e Sg	2002/10/12	18:58:29.5						
BRG	e Sg	2002/10/12	19:42:27.7						
BRG	e Sg	2002/10/13	04:24:20.2						
BRG	e Sg	2002/10/13	05:10:12.8						
BRG	e Sg	2002/10/13	15:11:11.3						

BRG	e	Sg	2002/10/14	07:59:38.7
BRG	e	Sg	2002/10/15	15:03:20.6
MOX	e	Pg	2002/10/16	23:57:10.5
MOX	e	Sg	2002/10/16	23:57:15.5
BRG	e	Sg	2002/10/17	07:04:06.8
BRG	e	Sg	2002/10/18	06:18:48.8
BRG	e	Sg	2002/10/18	13:59:38.2
BRG	e	Sg	2002/10/18	18:14:56.3
BRG	e	Sg	2002/10/18	19:05:19.3
BRG	e	Sg	2002/10/18	19:13:35.4
BRG	e	Sg	2002/10/19	19:03:01.7
BRG	e	Sg	2002/10/19	19:18:35.2
BRG	e	Sg	2002/10/21	12:57:42.4
BRG	e	Sg	2002/10/22	03:52:18.4
BRG	e	Sg	2002/10/22	07:38:29.0
BRG	e	Sg	2002/10/22	10:50:20.2
BRG	e	Pg	2002/10/22	14:20:24.0
BRG	e	Sg	2002/10/22	14:20:38.7
BRG	e	Sg	2002/10/22	18:14:10.6
BRG	e	Sg	2002/10/23	07:15:36.5
BRG	e	Sg	2002/10/24	18:58:19.1
BRG	e	Sg	2002/10/25	03:17:59.7
CLL	e	Sg	2002/10/25	09:15:37.0
BRG	e	Sg	2002/10/25	16:29:05.5
BRG	e	Sg	2002/10/25	16:44:19.1
BRG	e	Sg	2002/10/25	19:51:14.9
BRG	e	Sg	2002/10/26	05:35:43.7
CLL	i	Sg	2002/10/26	11:39:21.4
BRG	e	Sg	2002/10/26	15:55:43.0
BRG	e	Sg	2002/10/26	15:57:53.3

BRG	i	Sg	2002/10/28 20:17:20.7
BRG	e	Sg	2002/10/29 16:34:21.0
MOX	e	Sg	2002/10/30 05:03:08.6