

DATA_TYPE BULLETIN IMS1.0

BGR Bulletin for Germany and adjacent areas

Event 403001 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/03	01:36:40.50	0.82	0.41	51.6290	16.6030				5.0f			7	353	5.70	6.57	m i ke	BNS	403011
2010/04/03	01:36:43.83	0.43	0.69	51.4910	16.1220	6.7	2.2	014	1.0f		26	17	199	0.66	3.59	m i ki	BGR	403001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	4.1		BNS	403011
ML	4.4	0.3	15 BGR	403001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.66	170.5	Pg	01:36:56.954	0.7					T__				m_e ML	3.9
KSP	0.66	170.5	Sg	01:37:06.842	2.2					T__				m_e	
DPC	1.15	173.6	Pg	01:37:05.737	0.3					T__				m_e ML	4.2
BRG	1.50	246.5	Pn	01:37:10.493	-0.6					T__				m_e ML	4.2
BRG	1.50	246.5	Sg	01:37:32.668	1.2					T__				m_e	
FBE	1.83	252.9	Pn	01:37:15.254	-0.3					T__				m_e	
FBE	1.83	252.9	Sg	01:37:42.280	0.5					T__				m_e	
MORC	1.94	151.7	Pn	01:37:16.913	-0.1					T__				m_e ML	4.0
CLL	1.95	265.8	Pn	01:37:16.476	-0.8					T__				m_e ML	4.1
CLL	1.95	265.8	Sg	01:37:46.166	0.2					T__				m_e	
OKC	2.09	141.4	Pn	01:37:18.615	-0.5					T__				m_e ML	4.3
OKC	2.09	141.4	Sg	01:37:50.770	0.4					T__				m_e	
TANN	2.54	246.4	Pn	01:37:25.831	0.6					T__				m_e ML	4.5
TANN	2.54	246.4	Sg	01:38:05.480	0.8					T__				m_e	
WERD	2.62	248.0	Pn	01:37:26.522	0.2					T__				m_e ML	4.5
WERD	2.62	248.0	Sg	01:38:06.745	-0.3					T__				m_e	
OJC	2.65	117.3	Pn	01:37:25.404	-1.3					T__				m_e ML	4.5
OJC	2.65	117.3	Sg	01:38:08.377	0.5					T__				m_e	
MANZ	2.95	240.9	Pn	01:37:31.536	0.7					T__				m_e	
MOX	2.96	255.1	Pn	01:37:30.930	0.1					T__				m_e ML	4.7
MOX	2.96	255.1	Sg	01:38:19.415	1.7					T__				m_e	
ROTZ	3.02	236.8	Pn	01:37:32.450	0.7					T__				m_e ML	4.5
GEC2	3.07	211.3	Pn	01:37:32.942	0.6					T__				m_e ML	4.5
WET	3.13	222.7	Pn	01:37:33.904	0.7					T__				m_e ML	4.5
CLZ	3.58	277.9	Pn	01:37:40.444	1.1					T__				m_e ML	4.6
GRA1	3.59	241.9	Pn	01:37:40.628	1.1					T__				m_e ML	5.1
KOE	5.39	261.9	Pn	01:38:04.700	0.9					---				m_e	
BNS	5.62	268.1	Pn	01:38:07.900	0.9					---				m_e	
BGG	5.69	260.4	Pn	01:38:08.700	0.8					---				m_e	
BGG	5.69	260.4	Sn	01:39:16.400	7.5					---		61.8	0.36	m_e	
STB	5.90	264.9	Pn	01:38:12.200	1.4					---				m_e	
HILG	6.07	262.3	Pn	01:38:15.300	2.2					---				m_e	
KLL	6.22	266.0	Pn	01:38:15.800	0.7					---				m_e	
DREG	6.26	266.3	Pn	01:38:17.000	1.3					---				m_e	

Event 403008 E Oetztaler Alps, N Sarntaler Alps/A

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
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2010/04/03 13:10:27.29 0.11 0.35 46.8212 11.1829 0.7 0.6 004 13.0 1.7 40 8 060 m i fe ZAMG 403018
 2010/04/03 13:10:29.27 0.39 1.13 46.8320 11.2340 5.6 3.3 013 10.0f 29 16 200 0.51 4.62 m i ke BGR 403008
 (#PRIME)

Magnitude Err Nsta Author OrigID
 ML 3.1 0.4 12 ZAMG 403018
 ML 2.8 0.3 12 BGR 403008

Effects Loctyp Location Intensity Scale Author
 F Summar 3.0- 4.0 EMS ZAMG
 (Felt in St. Jodok am Brenner, Tirol)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WTTA	0.51	32.3	Pg	13:10:38.325	-0.7					T__				m_e ML	2.5
WTTA	0.51	32.3	Sg	13:10:45.651	-0.1					T__				m_e	
DAVA	1.03	296.7	Pg	13:10:48.048	-0.7					T__				m_e ML	2.3
DAVA	1.03	296.7	Sg	13:11:01.506	-0.6					T__				m_e	
FUR	1.33	1.2	Pg	13:10:54.316	-0.1					T__				m_e ML	3.0
FUR	1.33	1.2	Sg	13:11:11.602	-0.1					T__				m_e	
RJOB	1.39	48.9	Pn	13:10:54.422	0.4					T__				m_e ML	2.7
RJOB	1.39	48.9	Pg	13:10:56.280	0.7					T__				m_e	
RJOB	1.39	48.9	Sg	13:11:15.769	2.1					T__				m_e	
KBA	1.46	79.5	Pg	13:10:55.652	-1.2					T__				m_e ML	2.4
KBA	1.46	79.5	Sg	13:11:14.405	-1.4					T__				m_e	
MOA	2.29	62.5	Pg	13:11:11.360	-1.2					T__				m_e ML	2.7
MOA	2.29	62.5	Sg	13:11:43.113	1.0					T__				m_e	
OBKA	2.30	96.9	Pg	13:11:10.614	-2.0					T__				m_e ML	2.6
OBKA	2.30	96.9	Sg	13:11:43.309	1.0					T__				m_e	
STU	2.37	325.5	Sg	13:11:44.025	-0.7					T__				m_e ML	2.8
BFO	2.47	308.5	Pn	13:11:10.081	1.5					T__				m_e	
BFO	2.47	308.5	Sg	13:11:45.835	-1.8					T__				m_e	
WET	2.56	24.8	Pn	13:11:10.606	0.7					T__				m_e ML	3.0
WET	2.56	24.8	Sg	13:11:50.170	-0.5					T__				m_e	
GEC2	2.61	38.5	Pn	13:11:11.545	1.0					T__				m_e ML	2.8
GEC2	2.61	38.5	Sg	13:11:51.326	-0.8					T__				m_e	
GRA1	2.86	359.8	Sg	13:11:59.664	-0.5					T__				m_e ML	3.2
TANN	3.67	12.3	Pn	13:11:25.199	0.2					T__				m_e ML	3.3
TANN	3.67	12.3	Sg	13:12:25.971	-0.0					T__				m_e	
MOX	3.82	3.6	Pn	13:11:27.524	0.6					T__				m_e	
TNS	3.86	332.5	Pn	13:11:29.131	1.6					T__				m_e	
TNS	3.86	332.5	Sn	13:12:11.327	1.7					T__				m_e	
CLL	4.62	13.9	Sg	13:12:55.220	-0.9					T__				m_e	

Event 403005 Hamm/Westfalen, Ruhr Coal Mining District
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID
 2010/04/03 20:16:28.00 0.59 0.21 51.5520 7.4970 1.0f 6 310 0.40 1.36 m i ki BNS 403025
 2010/04/03 20:16:27.06 0.34 0.68 51.6290 7.5830 8.9 3.3 121 1.0f 9 5 143 0.27 2.16 m i ki BGR 403015
 2010/04/03 20:16:24.60 51.6350 7.7080 1.0f m i ki BUG 403005
 (#PRIME)

Magnitude Err Nsta Author OrigID

ML	1.8		BNS	403025
ML	2.0	0.2	3 BGR	403015
ML	1.9		BUG	403005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BUG	0.34	234.7	Pg	20:16:31.900	1.0					TA_				m_e	ML 1.9
BUG	0.34	234.7	Sg	20:16:37.200	2.0					TA_				m_e	
LAUG	0.55	239.5	Pg	20:16:35.980	0.9					---				m_e	
IBBN	0.67	2.7	Pg	20:16:40.486	3.2					---				m_e	ML 2.0
IBBN	0.67	2.7	Sg	20:16:50.215	4.3					---				m_e	
HOBG	0.69	199.9	Pg	20:16:39.190	1.5					---				m_e	
AHRW	1.16	200.2	Pg	20:16:47.591	1.1					---				m_e	ML 2.2
AHRW	1.16	200.2	Sg	20:17:04.826	3.3					---				m_e	
STB	1.17	208.0	Pg	20:16:47.500	0.8					---				m_e	
STB	1.17	208.0	Sg	20:17:02.270	0.3					---		60.6	0.74	m_e	
KLL	1.32	222.1	Pg	20:16:49.590	0.1					---				m_e	
DREG	1.34	224.2	Pg	20:16:49.950	0.1					---				m_e	
HILG	1.49	206.2	Pg	20:16:53.000	0.3					---				m_e	
NRDL	1.71	58.8	Pg	20:16:59.882	3.1					---				m_e	
NRDL	1.71	58.8	Sg	20:17:25.711	6.9					---				m_e	
WLF	2.20	207.2	Pg	20:17:08.061	1.9					---				m_e	

Event	Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
406001 Pitztal/A, E of Landeck	2010/04/06	08:23:27.80			47.2000	10.7600				19.0							m i uk	SED	406021	
	2010/04/06	08:23:27.44	0.14	0.29	47.2036	10.7429	1.0	0.7	144	9.3	2.1	28	8	089			m i fe	ZAMG	406011	
	2010/04/06	08:23:28.12	0.45	0.31	47.1920	10.7520	6.7	2.2	008	10.0f		11	7	186	0.60	2.57	m i ke	BGR	406001	

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1		SED	406021
ML	2.6	0.3	11 ZAMG	406011
ML	2.3	0.4	4 BGR	406001

Effects	Loctyp	Location	Intensity	Scale	Author
F	Summar		4.0	EMS	ZAMG

(Felt)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
DAVA	0.60	279.4	Pg	08:23:39.256	-0.3					T_				m_e	ML 2.1
DAVA	0.60	279.4	Sg	08:23:48.739	1.4					T_				m_e	
WTTA	0.60	82.9	Pg	08:23:39.531	-0.1					T_				m_e	ML 1.8
WTTA	0.60	82.9	Sg	08:23:48.347	0.8					T_				m_e	
KBA	1.77	92.7	Pg	08:24:00.992	-0.5					T_				m_e	ML 2.3
KBA	1.77	92.7	Sg	08:24:24.465	0.1					T_				m_e	
BFO	1.99	305.8	Sg	08:24:31.114	-0.2					T_				m_e	
MOA	2.46	73.2	Pg	08:24:13.366	-1.2					T_				m_e	
MOA	2.46	73.2	Sg	08:24:46.700	0.3					T_				m_e	
GRA1	2.52	6.9	Sg	08:24:48.115	-0.1					T_				m_e	ML 2.8
GEC2	2.57	49.0	Pg	08:24:15.483	-1.2					T_				m_e	

Event 409003 Landau i.d. Pfalz, NW of Karlsruhe

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/09	10:52:21.70	0.06	0.68	49.1487	8.1087	1.1	0.9	139	8.1	0.6	62	18	037			m i ke	LDG	409023
2010/04/09	10:52:22.31	0.33	0.45	49.1690	8.1240	3.3	3.3	057	3.0f		9	7	078	0.81	2.08	m i ki	BGR	409013
2010/04/09	10:52:22.01	0.10	0.12	49.1490	8.1530	1.6	0.8	114	5.0f		22	9	092	0.18	1.46	m i ki	LED	409003

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	2.9	0.1	5 LDG	409023
ML	2.9	0.2	18 LDG	409023
ML	2.3	0.2	7 BGR	409013
ML	2.4	0.1	12 LED	409003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KTD	0.18	345.2	P*	10:52:25.610						T__				mdi	
KTD	0.18	345.2	S*	10:52:28.230						T__				m__	
LANF	0.28	233.7	P*	10:52:27.570						T__				mci	
LANF	0.28	233.7	S*	10:52:31.760						T__				m__	
SWS	0.49	46.6	P*	10:52:31.260						T__				m__ ML	2.2
SWS	0.49	46.6	S*	10:52:38.110						T__				m__	
TOD	0.62	42.6	P*	10:52:33.810						T__				m__	
TOD	0.62	42.6	PmP	10:52:34.900	-2.1					___				m__	
TOD	0.62	42.6	S*	10:52:42.010						T__				m__	
LBG	0.64	138.7	P*	10:52:33.970						T__				m__ ML	2.2
LBG	0.64	138.7	PmP	10:52:35.840	-1.5					T__				m__	
LBG	0.64	138.7	S*	10:52:43.010						T__				m__	
LBG	0.64	138.7	SmS	10:52:45.740	-2.0					T__				m__	
OPP	0.65	178.0	P*	10:52:34.300						T__				md__ ML	2.4
OPP	0.65	178.0	PmP	10:52:35.400	-2.0					T__				m__	
OPP	0.65	178.0	S*	10:52:43.070						T__				m_i	
OPP	0.65	178.0	SmS	10:52:45.770	-2.2					T__				m__	
STU	0.78	118.6	Sg	10:52:48.292	1.4					___				m_e ML	2.4
BFO	0.83	171.8	P*	10:52:37.570						T__				m__ ML	2.4
BFO	0.83	171.8	PmP	10:52:38.580	-1.6					T__				m__	
BFO	0.83	171.8	S*	10:52:48.870						T__				m__	
ABH	0.83	332.0	Pg	10:52:37.920	0.2					T__				m__	
RUP	0.90	308.3	Pg	10:52:39.420	0.4					T__				m__	
RUP	0.90	308.3	Sg	10:52:50.740	0.1					T__				m__	
SIND	0.97	77.6	P*	10:52:39.780						___				m__ ML	2.6
SIND	0.97	77.6	S*	10:52:53.380						___				m__	
BUCH	1.06	131.1	Pg	10:52:42.660	0.7					___				m__ ML	2.3
BUCH	1.06	131.1	Sg	10:52:56.620	1.1					___				m__	
TNS	1.09	9.9	Pn	10:52:41.830	-1.4					___				m__ ML	2.4
TNS	1.09	9.9	Pg	10:52:42.950	0.4					___				md__	
TNS	1.09	9.9	Sn	10:52:56.630	-1.6					___				m__	
ECH	1.14	215.5	Pg	10:52:43.600	0.1					___				m__ ML	2.7
ECH	1.14	215.5	S	10:52:57.750						___				m__	
KIZ	1.20	187.5	Pg	10:52:44.410	-0.3					___				m__ ML	2.5
KIZ	1.20	187.5	Sg	10:53:00.620	0.4					___				m__	
GUT	1.25	149.1	Pg	10:52:45.410	-0.2					___				m__ ML	2.1
FELD	1.28	184.5	Pg	10:52:45.940	-0.1					___				m__	
WLF	1.40	292.4	Sg	10:53:06.283	-0.2					___				m_e ML	2.3
SLE	1.40	170.6	P	10:52:46.340						___				m__ ML	2.0
SLE	1.40	170.6	Sn	10:53:03.480	-2.0					___				m__	

HDH	1.46	111.9	Sg	10:53:09.250	0.7	---	m__	ML	2.5
AHRW	1.56	333.9	Sg	10:53:10.718	-0.7	---	m__e	ML	2.2
GRA1	2.07	73.6	Sg	10:53:28.851	1.1	---	m__e	ML	2.6

Event 409004 Landau i.d. Pfalz, NW of Karlsruhe

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/09	12:36:33.60	0.05	0.31	49.1592	8.1029	0.9	0.8	125	8.5	0.6	29	13	051			m i ke	LDG	409024
2010/04/09	12:36:34.28	0.31	0.50	49.1610	8.1200	3.3	3.3	092	3.0f		10	7	078	0.81	2.09	m i ki	BGR	409014
2010/04/09	12:36:33.80	0.25	0.13	49.1510	8.1580	2.9	2.3	317	5.0f		17	7	098	0.18	1.70	m i ki	LED	409004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.6	0.3	14 LDG	409024
ML	2.0	0.2	6 BGR	409014
ML	2.2	0.1	9 LED	409004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KTD	0.18	344.0	P*	12:36:37.450						T__				mc__	
KTD	0.18	344.0	S*	12:36:40.020						T__				m__	
LANF	0.29	233.7	P*	12:36:39.400						T__				mci	
LANF	0.29	233.7	S*	12:36:43.660						T__				m__	
TOD	0.62	42.5	P*	12:36:45.460						T__				m__	
TOD	0.62	42.5	PmP	12:36:46.710	-2.0					---				m__	
TOD	0.62	42.5	S*	12:36:53.900						T__				m__	
LBG	0.64	139.1	P*	12:36:46.380						T__				m__	ML 2.1
LBG	0.64	139.1	PmP	12:36:47.650	-1.4					T__				m__	
LBG	0.64	139.1	S*	12:36:54.750						T__				m__	
LBG	0.64	139.1	SmS	12:36:57.790	-1.8					T__				m__	
OPP	0.65	178.3	P*	12:36:46.190						T__				m__	ML 2.2
OPP	0.65	178.3	PmP	12:36:47.540	-1.7					T__				m__	
OPP	0.65	178.3	S*	12:36:54.830						T__				m__	
STU	0.78	118.8	Sg	12:37:00.500	1.9					---				m__e	ML 2.2
BFO	0.83	172.1	P*	12:36:49.490						T__				m__	ML 2.2
BFO	0.83	172.1	PmP	12:36:50.160	-1.8					T__				m__	
BFO	0.83	172.1	S*	12:37:01.020						T__				m__	
ABH	0.83	331.8	P*	12:36:49.870						T__				m__	
RUP	0.90	308.0	P*	12:36:51.350						---				m__	
RUP	0.90	308.0	S*	12:37:03.000						---				m__	
SIND	0.97	77.6	P*	12:36:51.760						---				m__	ML 2.4
SIND	0.97	77.6	S*	12:37:05.460						---				m__	
BUCH	1.05	131.3	Pg	12:36:54.210	0.5					---				m__	ML 2.4
BUCH	1.05	131.3	Sg	12:37:04.530	-2.8					---				m__	
TNS	1.09	9.8	P	12:36:53.750						---				m__	ML 2.1
TNS	1.09	9.8	S	12:37:08.470						---				m__	
ECH	1.14	215.6	P	12:36:55.350						---				m__	ML 2.4
ECH	1.14	215.6	S	12:37:09.950						---				m__	
KIZ	1.21	187.7	Pg	12:36:56.310	-0.2					---				m__	ML 2.1
KIZ	1.21	187.7	Sg	12:37:12.690	0.6					---				m__	
GUT	1.25	149.3	Pg	12:36:57.650	0.2					---				m__	ML 2.2
GUT	1.25	149.3	Sn	12:37:11.660	-2.1					---				m__	
FELD	1.28	184.6	Pg	12:36:57.800	-0.1					---				m__	

Event		409008 Poland																	
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
2010/04/09	19:27:50.20	0.48	0.65	51.4910	16.1130	6.7	3.3	026	1.0f		22	14	211	0.66	3.13	m i ki	BGR	409018	

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.4	7 BGR	409018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.66	170.0	Pg	19:28:02.827	0.2					T__				m_e ML	2.5
KSP	0.66	170.0	Sg	19:28:11.717	0.6					T__				m_e	
DPC	1.15	173.3	Pg	19:28:11.589	-0.3					T__				m_e ML	3.5
DPC	1.15	173.3	Sg	19:28:27.348	0.7					T__				m_e	
BRG	1.49	246.4	Pn	19:28:16.821	-0.6					T__				m_e ML	3.3
BRG	1.49	246.4	Sg	19:28:38.451	0.8					T__				m_e	
FBE	1.82	252.8	Pn	19:28:21.554	-0.3					T__				m_e ML	2.5
FBE	1.82	252.8	Pg	19:28:24.066	-0.4					T__				m_e	
MORC	1.94	151.6	Pn	19:28:23.547	0.1					T__				m_e ML	2.9
MORC	1.94	151.6	Sg	19:28:50.956	-0.8					T__				m_e	
CLL	1.95	265.8	Pn	19:28:23.020	-0.5					T__				m_e	
CLL	1.95	265.8	Pg	19:28:26.395	-0.5					T__				m_e	
OKC	2.10	141.3	Pn	19:28:25.376	-0.2					T__				m_e ML	3.3
OKC	2.10	141.3	Pg	19:28:29.509	-0.2					T__				m_e	
OKC	2.10	141.3	Sg	19:28:55.952	-0.8					T__				m_e	
TANN	2.54	246.4	Sg	19:29:09.766	-1.1					T__				m_e ML	3.3
WERD	2.61	248.0	Pn	19:28:33.001	0.4					T__				m_e	
OJC	2.65	117.2	Pn	19:28:33.584	0.5					T__				m_e	
MANZ	2.95	240.9	Pn	19:28:37.865	0.8					T__				m_e	
ROTZ	3.02	236.7	Pn	19:28:38.796	0.7					T__				m_e	
GEC2	3.06	211.2	Pn	19:28:39.350	0.7					T__				m_e	
WET	3.13	222.6	Pn	19:28:39.983	0.5					T__				m_e	

Event		410003 Weingarten, N of Friedrichshafen																	
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
2010/04/10	18:56:54.20			47.7400	9.5200				31.0							m i uk	SED	410033	
2010/04/10	18:56:53.70	0.10	0.50	47.7664	9.5368	1.8	1.5	080	25.0	0.0	70	18	073			m i ke	LDG	410023	
2010/04/10	18:56:53.38	0.22	0.64	47.8560	9.5510	3.3	2.2	153	10.0f		21	13	096	0.61	2.93	m i ke	BGR	410013	
2010/04/10	18:56:53.74	0.07	0.15	47.8010	9.5310	1.3	0.8	014	24.0	2.0	31	14	126	0.39	1.55	m i ke	LED	410003	

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.2		SED	410033
MD	2.7	0.0	2 LDG	410023
ML	2.2	0.3	20 LDG	410023
ML	2.1	0.3	11 BGR	410013
ML	2.2	0.3	13 LED	410003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GUT	0.39	314.3	P*	18:57:01.820						T__				mdi ML	2.8
GUT	0.39	314.3	S*	18:57:07.730						T__				m__	
SISB	0.40	253.5	P*	18:57:02.270						T__				mci ML	2.1
SISB	0.40	253.5	PmP	18:57:02.980	-0.4					T__				mci	

SISB	0.40	253.5	S*	18:57:08.580		T__	m__												
SISB	0.40	253.5	SmS	18:57:09.890	-0.1	T__	m__												
UBR	0.41	107.0	P*	18:57:02.500		T__	mci	ML	2.3										
UBR	0.41	107.0	S*	18:57:08.770		T__	m__												
UBR	0.41	107.0	SmS	18:57:10.880	0.6	T__	m__												
DAVA	0.57	155.2	Pg	18:57:05.366	0.2	---	m_e	ML	1.8										
DAVA	0.57	155.2	Sg	18:57:14.073	1.1	---	m_e												
WILA	0.57	227.6	Pg	18:57:05.222	-0.0	---	m_e	ML	2.6										
WILA	0.57	227.6	Sg	18:57:13.463	0.3	---	m_e												
SPAK	0.58	301.4	P*	18:57:05.450		T__	m__												
SPAK	0.58	301.4	S*	18:57:13.650		T__	m_i												
SPAK	0.58	301.4	SmS	18:57:14.210	-0.7	T__	m__												
OBER	0.65	127.2	Pg	18:57:06.840	0.2	T__	m__	ML	2.9										
OBER	0.65	127.2	PmP	18:57:07.140	-0.2	T__	m__												
OBER	0.65	127.2	Sg	18:57:16.260	0.8	---	m__												
BUCH	0.66	349.7	Pg	18:57:06.500	-0.3	T__	mdi	ML	2.3										
BUCH	0.66	349.7	Sg	18:57:15.700	-0.1	T__	m__												
SLE	0.70	267.5	Pn	18:57:06.970	-0.5	T__	mdi	ML	2.1										
SLE	0.70	267.5	Pg	18:57:07.200	-0.3	T__	mci												
PLONS	0.76	187.7	Pg	18:57:08.323	-0.3	---	m_e	ML	2.1										
PLONS	0.76	187.7	Sg	18:57:19.159	0.4	---	m_e												
HDH	0.90	29.7	Pg	18:57:10.220	-1.0	T__	m__	ML	2.7										
HDH	0.90	29.7	Sg	18:57:22.380	-0.9	T__	m__												
BFO	0.96	303.8	Pg	18:57:11.310	-1.0	T__	m__	ML	2.3										
LBG	0.99	330.7	Pg	18:57:11.820	-1.1	T__	m__	ML	2.1										
LBG	0.99	330.7	Sg	18:57:24.960	-1.0	T__	m__												
SULZ	0.99	254.6	Pg	18:57:12.425	-0.5	---	m_e	ML	1.8										
STU	1.00	347.1	Sg	18:57:25.060	-1.0	T__	m__	ML	1.8										
FELD	1.03	274.8	Pg	18:57:12.540	-1.0	T__	m__												
FELD	1.03	274.8	S	18:57:23.810		---	m__												
KIZ	1.09	278.8	Pg	18:57:13.470	-1.3	T__	mc	ML	2.0										
KIZ	1.09	278.8	Sg	18:57:28.010	-1.1	T__	m__												
OPP	1.14	308.3	Pg	18:57:14.310	-1.2	T__	mc	ML	2.0										
OPP	1.14	308.3	Sg	18:57:28.800	-1.7	T__	m__												
BALST	1.32	250.1	Pg	18:57:18.218	-0.8	---	m_e	ML	1.9										
WTTA	1.52	109.9	Pg	18:57:22.024	-0.6	---	m_e	ML	1.8										
SIND	1.55	1.8	Sg	18:57:41.200	-2.2	---	m__	ML	2.2										
WET	2.59	57.6	Pn	18:57:32.844	-0.3	---	m_e	ML	2.2										
ROTZ	2.64	40.9	Pg	18:57:43.229	-0.4	---	m_e												
KBA	2.68	104.2	Pg	18:57:44.660	0.3	---	m_e												
MANZ	2.76	36.8	Sg	18:58:20.542	-1.3	---	m_e	ML	2.2										
GEC2	2.96	67.8	Pn	18:57:38.349	0.2	---	m_e	ML	2.3										
GEC2	2.96	67.8	Pg	18:57:48.401	-1.3	---	m_e												
GEC2	2.96	67.8	Sn	18:58:12.627	2.3	---	m_e												
GEC2	2.96	67.8	Sg	18:58:26.487	-1.6	---	m_e												

Event 411006 Koblenz/Middle Rhine Area

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/11	11:16:16.90	0.04	0.52	50.3579	7.3443	0.8	0.7	168	6.0f		130	30	040			m i ke	LDG	411046
2010/04/11	11:16:16.50	0.20	0.35	50.4000	7.3400	3.0	2.0	319	10.0f		23	13	094	0.22	2.74	m i ke	LED	411036
2010/04/11	11:16:17.20	0.42	0.21	50.3960	7.3470				9.7	4.2		10	245			m i ke	GDNRW	411026

2010/04/11 11:16:16.72 0.24 0.69 50.3540 7.3390 3.3 2.2 176 5.0f 25 15 090 0.25 3.70 m i ke BGR 411016
 2010/04/11 11:16:17.30 0.62 0.31 50.3740 7.3720 5.0 24.2 15 110 0.17 1.01 m i ke BNS 411006
 (#PRIME)
 (Felt in Neuwieder basin)

Magnitude	Err	Nsta	Author	OrigID
MD	3.3	0.2	3 LDG	411046
ML	3.4	0.4	35 LDG	411046
ML	2.9	0.1	17 LED	411036
ML	2.8		GDNRW	411026
ML	3.1	0.3	13 BGR	411016
ML	2.7		BNS	411006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BHE	0.12	260.3	Pg	11:16:20.133	0.3										m_i
BHE	0.12	260.3	Sg	11:16:22.047	0.5							7323.6	0.08		m_e
BGG	0.17	187.6	Pg	11:16:20.820	0.2					T_					mci
BGG	0.17	187.6	Sg	11:16:23.180	0.3					T_		3730.5	0.12		m_e
KOE	0.23	77.2	Pg	11:16:21.840	0.0					T_					mdi
AHRW	0.25	311.7	Pg	11:16:22.280	0.2										m_e ML 2.6
AHRW	0.25	311.7	Sg	11:16:25.405	-0.0										m_e
TDN	0.34	306.6	Pg	11:16:23.847	0.1										m_i
TDN	0.34	306.6	Sg	11:16:28.034	-0.1							116.3	0.11		m_e
FSH	0.34	209.6	P*	11:16:24.940											m_
FSH	0.34	209.6	S*	11:16:30.620											m_
FACH	0.40	92.3	P*	11:16:24.640											mdi ML 2.8
FACH	0.40	92.3	S*	11:16:29.410											m_
STB	0.40	303.2	Pg	11:16:24.950	-0.0					T_					mde
WBS	0.44	352.6	Pg	11:16:25.527	-0.0										m_e
WBS	0.44	352.6	Sg	11:16:30.809	-0.4							684.6	0.12		m_e
HILG	0.45	259.7	Pg	11:16:25.690	-0.1					T_					mdi
BIW	0.46	39.5	P*	11:16:25.280											mci ML 2.9
BIW	0.46	39.5	S*	11:16:30.720											m_
ABH	0.50	167.1	P*	11:16:26.980											mci
LOH	0.57	250.6	Pg	11:16:27.813	-0.2										m_e
LOH	0.57	250.6	Sg	11:16:35.978	0.6							274.0	0.12		m_e
BNS	0.60	348.2	Pg	11:16:28.390	-0.3					T_					mce
HOBG	0.61	357.7	Pg	11:16:28.550	-0.3					T_					mce
OLFT	0.62	281.6	Pg	11:16:28.711	-0.3										m_e
OLFT	0.62	281.6	Sg	11:16:36.866	-0.1										m_e
RUP	0.70	196.8	P*	11:16:29.880											mce
TNS	0.70	102.0	Pg	11:16:30.223	-0.4										m_e ML 2.9
TNS	0.70	102.0	Sg	11:16:40.783	1.1										m_e
BLI	0.71	258.9	P*	11:16:30.050											mde ML 3.0
BLI	0.71	258.9	S*	11:16:38.560											m_
BLI	0.71	258.9	SmS	11:16:41.920	-2.8										m_
PLH	0.72	331.2	Pg	11:16:30.834	-0.1										m_e
PLH	0.72	331.2	Sg	11:16:39.639	-0.6							1222.2	0.16		m_e
GSH	0.73	300.2	Pg	11:16:30.665	-0.4										m_e
GSH	0.73	300.2	Sg	11:16:40.273	-0.2							218.8	0.14		m_e
KLL	0.73	292.4	Pg	11:16:30.570	-0.5					T_					mde
RIVT	0.77	210.6	P*	11:16:30.850											mdi
RIVT	0.77	210.6	S*	11:16:42.660											m_
DREG	0.78	292.2	Pg	11:16:31.750	-0.3					T_					mde

BD03	0.81	320.4	Pg	11:16:33.080	0.6	T__												mde		
IMS	0.85	156.2	P*	11:16:33.120		---												mce ML	3.1	
IMS	0.85	156.2	Sg	11:16:45.620	1.3	---												m__		
ENTS	0.87	1.6	Pg	11:16:32.882	-0.8	---												m_e		
ENTS	0.87	1.6	Sg	11:16:44.764	-0.1	---												m_e		
JCK	0.89	318.3	Sg	11:16:45.038	-0.6	---					392.2	0.16						m_e		
LAUG	1.01	344.7	Pg	11:16:35.740	-0.7	T__												mde		
DUP	1.03	201.6	Pn	11:16:35.620	-2.2	---												m__ ML	3.0	
WLF	1.06	228.3	Pg	11:16:35.756	-1.5	---												m_e ML	3.0	
WLF	1.06	228.3	Sg	11:16:50.017	-0.9	---												m_e		
RWB	1.06	313.8	Pg	11:16:36.783	-0.5	---												m_e		
RWB	1.06	313.8	Sg	11:16:49.948	-1.0	---					224.3	0.14						m_e		
BUG	1.07	356.6	Pg	11:16:36.556	-0.9	---												m_e ML	3.0	
BUG	1.07	356.6	Sg	11:16:51.409	0.1	---												m_e		
KTD	1.15	156.2	Sg	11:16:53.300	-0.5	---												m__		
TOD	1.20	129.3	Pg	11:16:39.310	-0.6	---												m__		
PEB	1.33	170.2	Pg	11:16:41.300	-1.0	---												m__ ML	3.5	
PEB	1.33	170.2	Sg	11:16:58.000	-1.5	---												m__		
LANF	1.42	168.5	Pg	11:16:43.740	-0.4	---												m__		
UBBA	1.73	74.1	Pg	11:16:49.806	-0.1	---												m_e ML	2.9	
SIND	1.77	124.6	Pn	11:16:47.070	-0.7	---												mce ML	3.2	
RUH	1.80	72.4	Pn	11:16:49.736	1.6	---												m_e ML	3.3	
GTTG	2.01	53.4	Pn	11:16:49.836	-1.2	---												m_e ML	3.5	
BFO	2.14	162.7	Pn	11:16:52.190	-0.6	---												m_e ML	2.8	
BFO	2.14	162.7	Pg	11:16:56.658	-0.9	---												m_e		
ECH	2.16	183.8	Pg	11:16:56.293	-1.8	---												m_e		
LIBD	2.23	176.0	Pg	11:16:58.700	-0.6	---												m__		
KIZ	2.44	171.4	Pg	11:17:02.320	-1.0	---												m__ ML	2.8	
MOF	2.53	183.6	Pg	11:17:03.180	-1.8	---												m__		
FELD	2.53	170.4	Pg	11:17:04.070	-0.9	---												m__		
GRA1	2.57	103.9	Pg	11:17:04.995	-0.7	---												m_e ML	3.1	
GRA1	2.57	103.9	Sg	11:17:39.506	0.7	---												m_e		
HDH	2.57	133.1	P	11:16:58.270		---												m__ ML	2.8	
GUT	2.57	153.0	P	11:16:58.370		---												m__ ML	2.9	
SLE	2.71	163.8	P	11:16:59.460		---												m__ ML	2.7	
ASSE	2.71	48.4	Sg	11:17:43.763	0.3	---												m_e ML	3.1	
MOX	2.71	82.6	Sg	11:17:44.167	0.7	---												m_e ML	3.2	
TANN	3.24	87.3	Pn	11:17:07.875	0.1	---												m_e ML	3.3	
TANN	3.24	87.3	Pg	11:17:17.149	-1.3	---												m_e		
TANN	3.24	87.3	Sg	11:18:00.802	0.4	---												m_e		
CLL	3.68	73.1	Pn	11:17:13.935	0.3	---												m_e ML	3.5	
CLL	3.68	73.1	Pg	11:17:25.474	-1.1	---												m_e		
CLL	3.68	73.1	Sg	11:18:14.664	0.6	---												m_e		

Event 413004 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/13	21:13:04.10	0.60	0.31	51.5590	7.8340				1.0f				7 319	0.59	1.46	m i ki	BNS	413024
2010/04/13	21:13:04.44	0.34	0.64	51.5960	7.6930	5.6	3.3	120	1.0f		14	8 080	0.31	1.68	m i ki	BGR	413014	
2010/04/13	21:13:02.70			51.6330	7.6840				1.0f							m i ki	BUG	413004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.0		BNS	413024
ML	2.1	0.1	5 BGR	413014
ML	1.9		BUG	413004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BUG	0.32	233.4	Pg	21:13:09.800	1.0					TA_				m_e	ML 1.9
BUG	0.32	233.4	Sg	21:13:14.900	2.0					TA_				m_e	
LAUG	0.54	238.8	Pg	21:13:15.640	2.8					---				m_e	
WTSB	0.64	301.7	Pg	21:13:17.137	2.4					---				m_e	
IBBN	0.67	3.9	Pg	21:13:18.364	2.9					---				m_e	ML 2.1
IBBN	0.67	3.9	Sg	21:13:27.636	3.5					---				m_e	
HOBG	0.69	198.8	Pg	21:13:16.770	1.2					---				m_e	
BNS	0.74	205.6	Pg	21:13:18.010	1.3					---				m_e	
AHRW	1.16	199.5	Pg	21:13:25.983	1.5					---				m_e	ML 2.2
AHRW	1.16	199.5	Sg	21:13:41.456	2.0					---				m_e	
STB	1.17	207.3	Pg	21:13:25.360	0.7					---				m_e	
STB	1.17	207.3	Sg	21:13:41.240	1.5					---		61.2	0.55	m_e	
KLL	1.31	221.7	Pg	21:13:27.690	0.3					---				m_e	
DREG	1.33	223.7	Pg	21:13:28.150	0.4					---				m_e	
HGN	1.40	232.3	Pn	21:13:29.134	0.5					---				m_e	
HGN	1.40	232.3	Pg	21:13:29.890	0.8					---				m_e	
HGN	1.40	232.3	Sg	21:13:47.955	0.8					---				m_e	
MEM	1.47	226.5	Pn	21:13:30.608	1.0					---				m_e	
MEM	1.47	226.5	Sg	21:13:50.289	0.9					---				m_e	
HILG	1.48	205.7	Pg	21:13:30.600	-0.1					---				m_e	
TNS	1.49	160.9	Pn	21:13:31.600	1.7					---				m_e	ML 2.0
CLZ	1.68	81.8	Pg	21:13:35.304	1.0					---				m_e	ML 2.2

Event	415004	Poland																
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/15	21:25:06.00	0.70	0.41	51.1750	16.7750				10.0f			9	349	5.76	6.66	m i ke	BNS	415014
2010/04/15	21:25:09.39	0.41	0.61	51.4430	16.2240	5.6	2.2	025	1.0f		25	17	198	0.60	3.65	m i ki	BGR	415004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.9		BNS	415014
ML	4.1	0.3	15 BGR	415004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.60	175.8	Pg	21:25:20.486	-0.2					T_				m_e	ML 3.5
KSP	0.60	175.8	Sg	21:25:29.020	0.5					T_				m_e	
DPC	1.09	176.7	Pg	21:25:29.585	-0.4					T_				m_e	ML 4.1
DPC	1.09	176.7	Sg	21:25:44.041	-0.1					T_				m_e	
BRG	1.54	249.2	Pn	21:25:36.160	-1.1					T_				m_e	ML 3.9
BRG	1.54	249.2	Sg	21:25:58.630	0.3					T_				m_e	
MORC	1.86	152.8	Pn	21:25:41.433	-0.2					T_				m_e	ML 3.7
MORC	1.86	152.8	Sg	21:26:08.702	0.1					T_				m_e	
FBE	1.87	254.9	Pn	21:25:41.195	-0.5					T_				m_e	ML 4.0
FBE	1.87	254.9	Sg	21:26:08.387	-0.5					T_				m_e	
CLL	2.02	267.4	Pn	21:25:42.717	-0.9					T_				m_e	ML 4.0

CLL	2.02	267.4	Sg	21:26:14.118	0.7	T__	m_e												
OKC	2.02	142.0	Pn	21:25:43.144	-0.5	T__	m_e	ML	4.1										
OKC	2.02	142.0	Sg	21:26:12.925	-0.5	T__	m_e												
OJC	2.57	117.1	Pn	21:25:49.958	-1.2	T__	m_e	ML	4.3										
OJC	2.57	117.1	Sg	21:26:32.561	1.6	T__	m_e												
TANN	2.58	248.0	Pn	21:25:51.560	0.2	T__	m_e												
WERD	2.66	249.6	Pn	21:25:52.559	0.1	T__	m_e	ML	4.0										
MANZ	2.99	242.4	Pn	21:25:57.203	0.4	T__	m_e	ML	4.3										
MOX	3.00	256.4	Pn	21:25:57.136	0.1	T__	m_e	ML	4.4										
ROTZ	3.05	238.2	Pn	21:25:58.020	0.3	T__	m_e	ML	4.2										
GEC2	3.06	212.9	Pn	21:25:58.025	0.2	T__	m_e												
WET	3.14	224.2	Pn	21:25:58.955	0.1	T__	m_e	ML	4.3										
GRA1	3.63	243.1	Pn	21:26:06.080	0.6	T__	m_e	ML	4.7										
CLZ	3.65	278.6	Pn	21:26:06.695	0.8	T__	m_e	ML	4.3										
KOE	5.44	262.6	Pn	21:26:30.500	0.3	---	m_e												
HOBG	5.58	268.8	Pn	21:26:33.800	1.7	---	m_e												
BNS	5.69	268.7	Pn	21:26:34.900	1.5	---	m_e												
BGG	5.74	261.0	Pn	21:26:34.300	0.1	---	m_e												
BGG	5.74	261.0	Sn	21:27:42.800	7.0	---				37.1	0.85	m_e							
LAUG	5.79	272.7	Pn	21:26:35.900	1.1	---	m_e												
STB	5.96	265.5	Pn	21:26:37.900	0.8	---	m_e												
STB	5.96	265.5	Sn	21:27:47.000	6.2	---				36.0	0.62	m_e							
HILG	6.13	262.9	Pn	21:26:40.200	0.8	---	m_e												
KLL	6.28	266.6	Pn	21:26:42.200	0.7	---	m_e												
DREG	6.32	266.8	Pn	21:26:43.400	1.3	---	m_e												

Event 416008 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/16	23:04:24.00	0.53	0.21	51.6200	7.6210				1.0f			9	305	0.50	1.45	m i ki	BNS	416038
2010/04/16	23:04:24.10	0.44	0.11	51.5700	7.6540				1.0f			4	334			m i ki	GDNRW	416028
2010/04/16	23:04:23.98	0.28	0.88	51.5900	7.7110	4.4	3.3	124	1.0f	17	9	081	0.31	2.16	m i ki	BGR	416018	
2010/04/16	23:04:22.70			51.6340	7.6790				1.0f			192	0.14	0.32	m i ki	BUG	416008	

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9		BNS	416038
ML	1.8		GDNRW	416028
ML	2.1	0.1	5 BGR	416018
ML	1.9		BUG	416008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.14	40.6	Pg	23:04:26.900	1.6					T__				m__	ML 1.4
BAHL	0.14	40.6	Sg	23:04:29.700	2.7					T__				m__	
BUG	0.32	233.0	Pg	23:04:29.700	1.0					TA__				m_e	ML 1.9
BUG	0.32	233.0	Sg	23:04:34.800	1.9					TA__				m__	
ENTS	0.43	203.2	Pg	23:04:31.737	1.0					---				m_e	
ENTS	0.43	203.2	Sg	23:04:36.900	0.6					---				m_e	
LAUG	0.54	238.6	Pg	23:04:33.360	0.5					---				m_e	
WTSB	0.64	301.8	Pg	23:04:37.105	2.4					---				m_e	
WTSB	0.64	301.8	Sg	23:04:45.589	2.6					---				m_e	
IBBN	0.67	4.2	Pg	23:04:38.100	2.7					---				m_e	ML 2.2

IBBN	0.67	4.2	Sg	23:04:47.327	3.2	---	m_e												
HOBG	0.69	198.5	Pg	23:04:36.690	1.1	---	m_e												
BNS	0.74	205.4	Pg	23:04:37.520	0.9	---	m_e												
PLH	0.83	220.8	Pg	23:04:39.086	0.8	---	m_e												
PLH	0.83	220.8	Sg	23:04:49.584	0.6	---	m_e	67.0	0.25										
WBS	0.86	196.8	Pg	23:04:39.798	0.8	---	m_e												
WBS	0.86	196.8	Sg	23:04:50.395	0.2	---	m_e	22.5	0.16										
RODG	1.06	243.0	Pg	23:04:43.680	1.1	---	m_e												
AHRW	1.16	199.3	Pg	23:04:45.748	1.2	---	m_e												2.1
AHRW	1.16	199.3	Sg	23:05:01.987	2.5	---	m_e												
STB	1.17	207.2	Pg	23:04:45.180	0.5	---	m_e												
STB	1.17	207.2	Sg	23:05:00.990	1.3	---	m_e	57.3	0.74										
KLL	1.31	221.5	Pg	23:04:47.170	-0.2	---	m_e												
DREG	1.33	223.6	Pg	23:04:47.670	-0.1	---	m_e												
OLFT	1.39	215.2	Pg	23:04:49.010	0.2	---	m_e												
OLFT	1.39	215.2	Sg	23:05:07.046	0.3	---	m_e												
HGN	1.40	232.2	Pg	23:04:48.860	-0.2	---	m_e												
HGN	1.40	232.2	Sg	23:05:07.516	0.4	---	m_e												
BGG	1.44	188.7	Pg	23:04:49.830	-0.1	---	m_e												
MEM	1.47	226.3	Pg	23:04:50.321	-0.0	---	m_e												
MEM	1.47	226.3	Sg	23:05:09.557	0.2	---	m_e												
HILG	1.48	205.5	Pg	23:04:50.500	-0.1	---	m_e												
TNS	1.49	160.8	Pg	23:04:50.086	-0.7	---	m_e												2.1
TNS	1.49	160.8	Sg	23:05:10.128	0.0	---	m_e												
CLZ	1.68	81.8	Pg	23:04:54.705	0.3	---	m_e												2.2
CLZ	1.68	81.8	Sg	23:05:17.312	1.2	---	m_e												
WLF	2.19	206.8	Pg	23:05:05.477	1.4	---	m_e												

Event 417002 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/17	06:02:22.10	0.10	0.38	51.4882	6.4989	2.0	1.3	139	1.0f		50	17	161			m i sr	LDG	417042
2010/04/17	06:02:22.10	0.65	0.21	51.5050	6.5470				1.0f			6	288	0.29	1.22	m i ki	BNS	417032
2010/04/17	06:02:22.20	0.32	0.11	51.4840	6.5850				1.0f			5	317			m i ki	GDRNW	417022
2010/04/17	06:02:21.08	0.69	0.83	51.4950	6.4760	11.1	4.4	116	1.0f	10	6	217	0.50	2.44	m i ki	BGR	417012	
2010/04/17	06:02:21.60			51.4100	6.5720				1.0f				273	0.11	0.44	m i ki	BUG	417002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	2.9	0.3	3 LDG	417042
ML	2.8	0.3	19 LDG	417042
ML	2.1		BNS	417032
ML	1.9		GDRNW	417022
ML	2.3	0.1	5 BGR	417012
ML	2.2		BUG	417002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.11	359.7	Pg	06:02:22.800	-0.8					T_				m_	ML 1.8
BRHE	0.11	359.7	Sg	06:02:23.800	-1.2					T_				m_	
LAUG	0.24	104.1	Pg	06:02:27.630	1.5									m_e	
PLH	0.43	159.0	Pg	06:02:32.227	2.4									m_e	
PLH	0.43	159.0	Sg	06:02:39.136	3.7							476.2	0.25	m_e	

BUG	0.44	85.7	Pg	06:02:30.800	1.0	TA_	m_e	ML	2.2
BUG	0.44	85.7	Sg	06:02:37.500	2.1	TA_	m_		
BNS	0.58	139.5	Pg	06:02:35.060	2.4	---	m_e		
HOBG	0.64	131.5	Pg	06:02:36.020	2.4	---	m_e		
GSH	0.69	190.2	Pg	06:02:37.045	2.5	---	m_e		
GSH	0.69	190.2	Sg	06:02:47.591	4.2	---	48.9	0.18	m_e
WBS	0.75	143.2	Sg	06:02:49.112	3.7	---	34.6	0.18	m_e
DREG	0.78	196.1	Pg	06:02:38.520	2.3	---	m_e		
KLL	0.78	192.2	Pg	06:02:38.660	2.3	---	m_e		
STB	0.83	168.2	Pg	06:02:40.050	2.7	---	m_e		
STB	0.83	168.2	Sg	06:02:52.660	4.6	---	74.8	0.38	m_e
TDN	0.87	164.2	Pg	06:02:40.287	2.3	---	m_e		
TDN	0.87	164.2	Sg	06:02:53.020	3.9	---	6.7	0.14	m_e
OLFT	0.92	186.0	Pg	06:02:41.515	2.6	---	m_e		
OLFT	0.92	186.0	Sg	06:02:54.940	4.1	---	m_e		
AHRW	0.93	159.7	Pg	06:02:42.096	3.1	---	m_e	ML	2.0
AHRW	0.93	159.7	Sg	06:02:56.793	5.8	---	m_e		
HILG	1.12	176.5	Pg	06:02:45.150	2.4	---	m_e		
IBBN	1.16	38.8	Pg	06:02:43.530	0.1	---	m_e	ML	2.3
IBBN	1.16	38.8	Sg	06:02:58.766	0.4	---	m_e		
TNS	1.68	134.3	Pg	06:02:53.762	0.5	---	m_e	ML	2.3
WLF	1.77	188.8	Pg	06:02:55.420	0.5	---	m_e	ML	2.4
WLF	1.77	188.8	Sg	06:03:19.602	1.9	---	m_e		
CLZ	2.40	78.1	Pg	06:03:05.861	-0.9	---	m_e		

Event 419006 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/19	20:12:02.70	0.47	0.21	51.6080	7.5520				1.0f				7 310	0.46	1.43	m i ki	BNS	419026
2010/04/19	20:12:01.27	0.33	0.39	51.5970	7.7520	4.4	3.3	119	1.0f		10	5	117	0.34	1.64	m i ki	BGR	419016
2010/04/19	20:12:00.60			51.6370	7.6760				1.0f				190	0.13	0.32	m i ki	BUG	419006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	419026
ML	2.0	0.1	5 BGR	419016
ML	1.8		BUG	419006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.13	42.1	Pg	20:12:04.800	1.7					T_				m_	ML	1.6
BAHL	0.13	42.1	Sg	20:12:07.700	2.8					T_				m_		
BUG	0.32	232.3	Pg	20:12:07.600	1.0					TA_				m_e	ML	1.8
BUG	0.32	232.3	Sg	20:12:12.700	1.9					TA_				m_		
LAUG	0.54	238.2	Pg	20:12:11.540	0.8					---				m_e		
IBBN	0.67	4.3	Pg	20:12:15.714	2.5					---				m_e	ML	2.1
IBBN	0.67	4.3	Sg	20:12:24.748	2.8					---				m_e		
HOBG	0.69	198.3	Pg	20:12:14.790	1.2					---				m_e		
RODG	1.06	242.8	Pg	20:12:21.150	0.7					---				m_e		
AHRW	1.16	199.2	Pg	20:12:23.650	1.2					---				m_e	ML	1.9
AHRW	1.16	199.2	Sg	20:12:39.309	1.9					---				m_e		
STB	1.17	207.0	Pg	20:12:23.530	0.9					---				m_e		
STB	1.17	207.0	Sg	20:12:38.730	1.0					---		44.4	0.58	m_e		

KLL	1.31	221.4	Pg	20:12:25.110	-0.2	---	m_e												
DREG	1.33	223.5	Pg	20:12:25.860	0.2	---	m_e												
HILG	1.48	205.4	Pg	20:12:28.510	-0.1	---	m_e												
TNS	1.50	160.7	Pg	20:12:28.257	-0.5	---	m_e	ML	2.0										
TNS	1.50	160.7	Sg	20:12:48.177	0.1	---	m_e												
CLZ	1.68	82.0	Pg	20:12:32.650	0.3	---	m_e	ML	2.1										
CLZ	1.68	82.0	Sg	20:12:54.799	0.8	---	m_e												

Event 420004 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/20	09:47:39.14	0.37	0.89	50.2280	18.8150	8.9	3.3	000	1.0f		13	10	158	0.58	4.60	m i ki	BGR	420004

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.3	10 BGR	420004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OKC	0.58	227.9	Pg	09:47:52.089	2.0					T_				m_e ML	2.5
OJC	0.63	90.4	Pg	09:47:51.746	0.7					T_				m_e ML	2.8
OJC	0.63	90.4	Sg	09:47:59.615	0.5					T_				m_e	
MORC	0.93	241.6	Pn	09:47:58.043	-0.7					T_				m_e ML	2.7
MORC	0.93	241.6	Sg	09:48:11.189	2.4					T_				m_e	
DPC	1.60	275.3	Sg	09:48:30.271	0.4					T_				m_e ML	2.6
KSP	1.72	292.0	Pn	09:48:10.128	0.8					T_				m_e ML	2.9
KSP	1.72	292.0	Sg	09:48:35.276	1.6					T_				m_e	
BRG	3.16	283.6	Sg	09:49:19.697	0.1					T_				m_e ML	3.0
GEC2	3.59	249.3	Sg	09:49:32.339	-1.0					T_				m_e ML	3.3
WET	3.99	256.5	Sg	09:49:45.371	-0.5					T_				m_e ML	3.6
WERD	4.16	275.5	Sg	09:49:50.967	-0.3					T_				m_e ML	3.2
MOX	4.60	278.0	Sg	09:50:06.159	0.8					T_				m_e ML	3.4

Event 420007 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/20	13:17:26.60	0.31	0.11	51.6310	7.4340				1.0f			5	318	0.41	1.23	m i ki	BNS	420037
2010/04/20	13:17:25.00	0.28	0.11	51.6330	7.4150				1.0f			3	319			m i ki	GDNRW	420027
2010/04/20	13:17:25.38	0.32	0.76	51.5980	7.7210	4.4	3.3	138	1.0f		12	8	080	0.32	1.66	m i ki	BGR	420017
2010/04/20	13:17:24.00			51.6310	7.6860				1.0f				195	0.14	0.32	m i ki	BUG	420007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	420037
ML	1.6		GDNRW	420027
ML	2.1	0.0	5 BGR	420017
ML	1.9		BUG	420007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.14	38.4	Pg	13:17:28.200	1.6					T_				m__ ML	1.3
BAHL	0.14	38.4	Sg	13:17:31.000	2.7					T_				m__	
BUG	0.32	233.9	Pg	13:17:31.000	0.9					TA_				m_e ML	1.9

HGN	1.40	232.4	Sg	16:25:36.057	0.4	---	m_e												
MEM	1.47	226.5	Pn	16:25:18.978	0.9	---	m_e												
MEM	1.47	226.5	Sg	16:25:37.999	0.2	---	m_e												
HILG	1.48	205.7	Pg	16:25:19.310	0.2	---	m_e												
TNS	1.49	160.8	Pn	16:25:18.828	0.5	---	m_e	ML										1.9	
TNS	1.49	160.8	Pg	16:25:19.755	0.5	---	m_e												
TNS	1.49	160.8	Sg	16:25:37.713	-0.7	---	m_e												
CLZ	1.68	81.7	Pg	16:25:23.286	0.5	---	m_e	ML											2.1
CLZ	1.68	81.7	Sg	16:25:45.749	1.2	---	m_e												

Event 422004 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/22	15:45:06.50	0.87	0.31	51.5720	7.6340				1.0f			8	291	0.48	1.41	m i ki	BNS	422024
2010/04/22	15:45:04.96	0.42	0.53	51.5870	7.7960	6.7	4.4	094	1.0f		8	4	165	0.36	1.42	m i ki	BGR	422014
2010/04/22	15:45:04.50			51.6340	7.6850				1.0f				193	0.13	0.32	m i ki	BUG	422004

Magnitude	Err	Nsta	Author	OrigID
ML	2.0		BNS	422024
ML	2.3	0.1	4 BGR	422014
ML	2.1		BUG	422004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.13	39.4	Pg	15:45:08.600	1.6					T_				m_	ML 2.0
BAHL	0.13	39.4	Sg	15:45:11.600	2.9					T_				m_	
BUG	0.32	233.4	Pg	15:45:11.600	1.0					TA_				m_e	ML 2.1
BUG	0.32	233.4	Sg	15:45:16.700	1.9					TA_				m_	
LAUG	0.54	238.8	Pg	15:45:15.140	0.4									m_e	
LAUG	0.54	238.8	Sg	15:45:23.080	1.4							58.7	0.86	m_e	
IBBN	0.67	3.8	Pg	15:45:19.295	2.1									m_e	ML 2.3
IBBN	0.67	3.8	Sg	15:45:29.201	3.3									m_e	
HOBG	0.69	198.8	Pg	15:45:18.320	0.9									m_e	
RODG	1.06	243.1	Pg	15:45:25.720	1.3									m_e	
AHRW	1.16	199.5	Pg	15:45:27.513	1.2									m_e	ML 2.3
AHRW	1.16	199.5	Sg	15:45:43.630	2.3									m_e	
STB	1.17	207.4	Pg	15:45:27.060	0.6									m_e	
STB	1.17	207.4	Sg	15:45:41.790	0.2							67.1	0.48	m_e	
KOE	1.21	178.6	Pg	15:45:28.190	0.9									m_e	
KLL	1.31	221.7	Pg	15:45:29.160	-0.0									m_e	
DREG	1.33	223.7	Pg	15:45:29.650	0.1									m_e	
HILG	1.48	205.7	Pg	15:45:31.990	-0.5									m_e	
TNS	1.49	160.9	Pg	15:45:31.885	-0.7									m_e	ML 2.2
TNS	1.49	160.9	Sg	15:45:50.963	-0.9									m_e	

Event 423015 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/23	13:05:54.30	1.03	0.41	51.5280	6.5360				1.0f			6	292	0.31	1.24	m i ki	BNS	423045
2010/04/23	13:05:54.50	0.26	0.11	51.4850	6.6580				1.0f			4	282			m i ki	GDNRW	423035

2010/04/23 13:05:55.53 0.34 0.82 51.4630 6.6280 4.4 3.3 120 1.0f 16 9 160 0.40 2.35 m i ki BGR 423025
 2010/04/23 13:05:54.30 51.4870 6.5960 1.0f 235 0.03 0.42 m i ki BUG 423015
 (#PRIME)

Magnitude Err Nsta Author OrigID
 ML 2.0 BNS 423045
 ML 2.0 GDNRW 423035
 ML 2.2 0.2 6 BGR 423025
 ML 2.0 BUG 423015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.03	331.5	Pg	13:05:55.300	0.4					T_				m_e	ML 1.5
BRHE	0.03	331.5	Sg	13:05:56.500	1.1					T_				m_e	
LAUG	0.26	121.9	Pg	13:06:00.070	0.9									m_e	
HES	0.30	113.2	Pg	13:06:00.240	0.2									m_e	
HES	0.30	113.2	Sg	13:06:04.060	0.1									m_e	
BUG	0.42	96.0	Pg	13:06:03.200	0.9					TA_				m_e	ML 2.0
BUG	0.42	96.0	Sg	13:06:09.700	2.0					TA_				m_e	
WTSB	0.50	14.6	Pg	13:06:05.441	1.8									m_e	
WTSB	0.50	14.6	Sg	13:06:11.643	1.6									m_e	
PLH	0.50	163.8	Pg	13:06:04.327	0.5									m_e	
PLH	0.50	163.8	Sg	13:06:11.271	1.0							102.0	0.26	m_e	
HOBG	0.68	137.2	Pg	13:06:08.650	1.5									m_e	
GSH	0.76	190.3	Pg	13:06:09.526	0.8									m_e	
GSH	0.76	190.3	Sg	13:06:20.053	1.5							37.1	0.22	m_e	
HGN	0.83	210.2	Pg	13:06:10.987	1.0									m_e	
HGN	0.83	210.2	Sg	13:06:21.885	1.1									m_e	
DREG	0.85	195.6	Pg	13:06:11.010	0.6									m_e	
KLL	0.86	192.1	Pg	13:06:11.270	0.8									m_e	
STB	0.91	170.2	Pg	13:06:13.110	1.7									m_e	
STB	0.91	170.2	Sg	13:06:25.550	2.5							55.4	0.56	m_e	
MEM	0.95	203.1	Pg	13:06:12.698	0.4									m_e	
MEM	0.95	203.1	Sg	13:06:25.893	1.3									m_e	
AHRW	0.99	162.1	Pg	13:06:14.710	1.7									m_e	ML 2.0
AHRW	0.99	162.1	Sg	13:06:26.860	1.0									m_e	
OLFT	1.00	186.4	Pg	13:06:13.882	0.7									m_e	
OLFT	1.00	186.4	Sg	13:06:27.525	1.5									m_e	
IBBN	1.09	40.8	Sg	13:06:31.150	2.2									m_e	ML 2.3
HILG	1.20	177.5	Pg	13:06:16.910	0.1									m_e	
TNS	1.72	136.5	Pg	13:06:27.611	0.9									m_e	ML 2.1
TNS	1.72	136.5	Sg	13:06:49.163	0.2									m_e	
WLF	1.84	189.0	Sg	13:06:52.158	-0.7									m_e	ML 2.4
CLZ	2.37	79.9	Pg	13:06:40.140	1.2									m_e	ML 2.4
CLZ	2.37	79.9	Sg	13:07:08.344	-1.2									m_e	

Event 423013 Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/23	16:38:59.90	1.67	1.11	49.8580	18.4420	17.8	13.3	079	1.0f		11	9	319	3.04	4.66	m i ki	BGR	423023

Magnitude Err Nsta Author OrigID
 ML 3.2 0.2 8 BGR 423023

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	3.04	291.2	Pg	16:39:56.321	-0.9					T__				m_e	ML 2.9
BRG	3.04	291.2	Sg	16:40:36.285	-0.3					T__				m_e	
GEC2	3.25	253.6	Pg	16:40:00.228	-0.9					T__				m_e	ML 3.0
GEC2	3.25	253.6	Sg	16:40:43.618	0.5					T__				m_e	
WET	3.68	260.9	Sg	16:40:56.198	-0.7					T__				m_e	ML 3.3
CLL	3.74	294.9	Sg	16:40:57.543	-1.3					T__				m_e	ML 3.3
TANN	3.87	280.6	Sg	16:41:03.372	0.4					T__				m_e	
WERD	3.97	280.9	Sg	16:41:07.447	1.3					T__				m_e	ML 3.1
TAUT	4.43	287.3	Sg	16:41:22.156	1.5					T__				m_e	ML 3.4
MOX	4.43	282.8	Sg	16:41:23.104	2.4					T__				m_e	ML 3.1
GRA1	4.66	270.7	Sg	16:41:28.579	0.5					T__				m_e	ML 3.5

Event 423014 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/23	19:19:45.10	1.83	1.04	49.8680	19.7200	26.7	16.7	168	1.0f		8	7	336	3.82	4.85	m i ki	BGR	423024

Magnitude	Err	Nsta	Author	OrigID
ML	3.2	0.3	7 BGR	423024

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	3.82	287.5	Pg	19:20:55.161	-1.9					T__				m_e	ML 3.2
BRG	3.82	287.5	Sg	19:21:47.926	1.5					T__				m_e	
FBE	4.19	287.0	Sg	19:21:56.346	-1.9					T__				m_e	ML 2.6
WET	4.50	263.4	Sg	19:22:07.634	-0.4					T__				m_e	ML 3.3
TANN	4.68	279.5	Sg	19:22:15.728	1.9					T__				m_e	ML 3.4
WERN	4.73	277.9	Sg	19:22:15.713	0.4					T__				m_e	ML 3.5
WERD	4.78	279.8	Sg	19:22:16.927	-0.1					T__				m_e	ML 3.3
ROTZ	4.85	271.7	Sg	19:22:19.326	0.3					T__				m_e	ML 3.3

Event 424002 Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/24	01:22:42.47	1.75	0.86	49.8490	18.3590	15.6	12.2	104	1.0f		11	9	319	3.00	4.02	m i ki	BGR	424012

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.3	9 BGR	424012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	3.00	291.7	Pg	01:23:36.847	-2.1					T__				m_e	ML 2.8
BRG	3.00	291.7	Sg	01:24:18.557	0.9					T__				m_e	
GEC2	3.20	253.5	Sg	01:24:26.146	2.2					T__				m_e	ML 3.2
FBE	3.37	290.5	Sg	01:24:30.125	0.7					T__				m_e	ML 2.2
WET	3.63	260.9	Sg	01:24:36.586	-1.1					T__				m_e	ML 3.3
CLL	3.70	295.3	Sg	01:24:41.156	1.2					T__				m_e	ML 3.3
WERN	3.86	278.8	Sg	01:24:46.023	0.8					T__				m_e	ML 3.2
WERD	3.92	281.1	Pg	01:23:55.712	-0.7					T__				m_e	ML 3.0
WERD	3.92	281.1	Sg	01:24:47.100	-0.0					T__				m_e	

ROTZ	3.97	271.2	Sg	01:24:49.012	0.4					T_								m_e	ML	3.1
PLN	4.02	281.5	Sg	01:24:50.992	0.8					T_								m_e	ML	3.1

Event 425006 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
2010/04/25	22:16:41.80	0.24	0.52	51.6336	7.6733	4.2	3.3	040	1.0f		30	14	293			m i sr	LDG	425036	
2010/04/25	22:16:41.50	0.38	0.11	51.6560	7.6640				1.0f				6	321	0.54	1.50	m i ki	BNS	425026
2010/04/25	22:16:42.34	0.52	0.38	51.6040	7.6800	6.7	4.4	084	1.0f		9	6	156	0.30	1.46	m i ki	BGR	425016	
2010/04/25	22:16:41.00			51.6140	7.7040				1.0f					206	0.14	0.32	m i ki	BUG	425006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.1	0.4	2 LDG	425036
ML	2.4	0.3	11 LDG	425036
ML	2.0		BNS	425026
ML	2.2	0.1	4 BGR	425016
ML	2.0		BUG	425006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.14	30.7	Pg	22:16:45.100	1.4					T_				m_	ML 1.7
BAHL	0.14	30.7	Sg	22:16:48.000	2.4					T_				m_	
BUG	0.32	237.5	Pg	22:16:48.000	0.9					TA_				m_e	ML 2.0
BUG	0.32	237.5	Sg	22:16:53.100	1.9					TA_				m_	
LAUG	0.54	241.2	Pg	22:16:51.900	0.7					---				m_e	
WTSB	0.66	302.5	Pg	22:16:55.307	1.8					---				m_e	
WTSB	0.66	302.5	Sg	22:17:04.277	2.3					---				m_e	
HOBG	0.67	200.3	Pg	22:16:54.810	1.2					---				m_e	
IBBN	0.69	2.8	Pg	22:16:56.609	2.5					---				m_e	ML 2.3
AHRW	1.14	200.4	Pg	22:17:04.013	1.5					---				m_e	ML 2.1
AHRW	1.14	200.4	Sg	22:17:20.183	2.9					---				m_e	
STB	1.16	208.3	Pg	22:17:03.550	0.8					---				m_e	
STB	1.16	208.3	Sg	22:17:19.530	1.8					---		63.1	0.64	m_e	
KLL	1.30	222.6	Pg	22:17:05.450	-0.1					---				m_e	
DREG	1.33	224.7	Pg	22:17:05.450	-0.5					---				m_e	
HGN	1.40	233.3	Pn	22:17:06.912	0.0					---				m_e	
TNS	1.47	161.1	Pn	22:17:08.510	0.7					---				m_e	ML 2.1
HILG	1.47	206.4	Pg	22:17:07.850	-0.9					---				m_e	

Event 428009 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID	
2010/04/28	22:21:21.20	0.85	0.41	51.6600	7.5700				1.0f				8	306	0.50	1.48	m i ki	BNS	428029
2010/04/28	22:21:21.52	0.28	0.80	51.6040	7.6420	4.4	3.3	121	1.0f		16	8	078	0.28	1.71	m i ki	BGR	428019	
2010/04/28	22:21:19.60			51.6320	7.6890				1.0f					195	0.13	0.32	m i ki	BUG	428009

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1		BNS	428029
ML	2.1	0.0	5 BGR	428019

ML 1.9 BUG 428009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.13	38.1	Pg	22:21:23.800	1.7					T_				m__	ML 1.5
BAHL	0.13	38.1	Sg	22:21:26.700	2.9					T_				m__	
BUG	0.32	233.9	Pg	22:21:26.700	1.0					TA_				m_e	ML 1.9
BUG	0.32	233.9	Sg	22:21:31.800	1.9					TA_				m__	
LAUG	0.54	239.1	Pg	22:21:30.170	0.3					---				m_e	
WTSB	0.64	301.6	Pg	22:21:33.946	2.2					---				m_e	
WTSB	0.64	301.6	Sg	22:21:42.435	2.4					---				m_e	
IBBN	0.68	3.6	Pg	22:21:34.389	2.1					---				m_e	ML 2.1
IBBN	0.68	3.6	Sg	22:21:44.269	3.2					---				m_e	
HOBG	0.69	199.0	Pg	22:21:34.630	2.1					---				m_e	
RODG	1.06	243.2	Pg	22:21:40.940	1.4					---				m_e	
AHRW	1.16	199.7	Pg	22:21:42.884	1.5					---				m_e	ML 2.1
AHRW	1.16	199.7	Sg	22:21:58.899	2.5					---				m_e	
STB	1.17	207.5	Pg	22:21:42.320	0.7					---				m_e	
STB	1.17	207.5	Sg	22:21:58.680	2.0					---		54.1	0.70	m_e	
KLL	1.31	221.8	Pg	22:21:44.520	0.2					---				m_e	
DREG	1.33	223.9	Pg	22:21:44.690	-0.0					---				m_e	
HGN	1.40	232.4	Pg	22:21:45.985	-0.0					---				m_e	
HGN	1.40	232.4	Sg	22:22:04.481	0.3					---				m_e	
BGG	1.44	189.0	Pg	22:21:46.740	-0.1					---				m_e	
MEM	1.47	226.6	Pg	22:21:47.352	0.0					---				m_e	
MEM	1.47	226.6	Sg	22:22:06.477	0.2					---				m_e	
HILG	1.48	205.8	Pg	22:21:47.640	0.1					---				m_e	
TNS	1.49	161.0	Pn	22:21:47.371	0.6					---				m_e	ML 2.1
TNS	1.49	161.0	Sg	22:22:08.544	1.7					---				m_e	
CLZ	1.67	81.8	Pn	22:21:51.678	2.4					---				m_e	ML 2.1
CLZ	1.67	81.8	Sg	22:22:16.321	3.5					---				m_e	

Event 429011 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/29	16:49:47.30	0.13	0.63	51.6229	7.7531	2.8	2.1	141	1.0f		47	16	132			m i sr	LDG	429051
2010/04/29	16:49:47.40	0.36	0.11	51.6670	7.6110				1.0	5.3		6	314	0.52	1.50	m i ki	BNS	429041
2010/04/29	16:49:47.80	0.22	0.11	51.6310	7.5810				1.0f			9	313			m i ki	GDNRW	429031
2010/04/29	16:49:48.70	0.21	1.01	51.5810	7.6700	4.4	2.2	134	1.0f		24	10	080	0.29	2.14	m i ki	BGR	429021
2010/04/29	16:49:47.10			51.6100	7.7100				1.0f				209	0.14	0.32	m i ki	BUG	429011

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.3	0.4	2 LDG	429051
ML	3.0	0.2	18 LDG	429051
ML	2.3		BNS	429041
ML	2.4		GDNRW	429031
ML	2.6	0.1	6 BGR	429021
ML	2.5		BUG	429011

Effects	Loctyp	Location	Intensity	Scale	Author
<u>F</u> (Felt in Bergkamen)	Summar		4.0	EMS	BNS

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.14	28.6	Pg	16:49:51.200	1.4					T__				m_e	ML	2.1
BAHL	0.14	28.6	Sg	16:49:54.300	2.6					T__				m_e		
BUG	0.32	238.5	Pg	16:49:54.200	1.0					TA__				m_e	ML	2.5
BUG	0.32	238.5	Sg	16:49:59.300	2.0					TA__				m_e		
ENTS	0.41	207.0	Pg	16:49:56.198	1.3					___				m_e		
ENTS	0.41	207.0	Sg	16:50:01.892	1.7					___				m_e		
LAUG	0.54	241.8	Pg	16:49:57.560	0.2					___				m_e		
WTSB	0.67	302.7	Pg	16:50:00.793	1.1					___				m_e		
WTSB	0.67	302.7	Sg	16:50:10.446	2.2					___				m_e		
HOBG	0.67	200.7	Pg	16:50:01.020	1.3					___				m_e		
IBBN	0.70	2.5	Pg	16:50:01.686	1.5					___				m_e	ML	2.6
IBBN	0.70	2.5	Sg	16:50:12.006	2.8					___				m_e		
PLH	0.82	222.9	Pg	16:50:03.036	0.4					___				m_e		
PLH	0.82	222.9	Sg	16:50:13.934	0.7					___		351.4	0.20	m_e		
WBS	0.85	198.6	Pg	16:50:04.083	1.0					___				m_e		
WBS	0.85	198.6	Sg	16:50:15.811	1.8					___		67.8	0.20	m_e		
JCK	0.98	234.8	Pg	16:50:05.816	0.2					___				m_e		
JCK	0.98	234.8	Sg	16:50:18.526	0.1					___		686.9	0.17	m_e		
RWB	1.10	243.0	Sg	16:50:22.002	0.1					___		239.5	0.39	m_e		
AHRW	1.14	200.7	Pg	16:50:10.155	1.6					___				m_e	ML	2.6
AHRW	1.14	200.7	Sg	16:50:26.380	3.0					___				m_e		
TDN	1.14	205.2	Pg	16:50:09.365	0.8					___				m_e		
TDN	1.14	205.2	Sg	16:50:24.606	1.2					___		109.5	0.22	m_e		
STB	1.15	208.6	Pg	16:50:09.350	0.5					___				m_e		
STB	1.15	208.6	Sg	16:50:25.740	2.0					___		144.4	0.65	m_e		
GSH	1.21	224.2	Pg	16:50:10.370	0.5					___				m_e		
GSH	1.21	224.2	Sg	16:50:26.209	0.7					___		36.4	0.12	m_e		
KLL	1.30	222.9	Pg	16:50:11.380	-0.3					___				m_e		
DREG	1.32	225.0	Pg	16:50:11.920	-0.2					___				m_e		
OLFT	1.38	216.5	Pg	16:50:13.206	0.1					___				m_e		
OLFT	1.38	216.5	Sg	16:50:31.169	0.2					___				m_e		
HGN	1.40	233.5	Pg	16:50:13.140	-0.3					___				m_e		
HGN	1.40	233.5	Sg	16:50:32.196	0.6					___				m_e		
BGG	1.42	189.6	Pg	16:50:13.620	-0.3					___				m_e		
TNS	1.46	161.2	Pn	16:50:14.803	0.9					___				m_e	ML	2.6
TNS	1.46	161.2	Pg	16:50:15.722	1.0					___				m_e		
TNS	1.46	161.2	Sg	16:50:35.150	1.6					___				m_e		
MEM	1.46	227.6	Pg	16:50:14.800	0.1					___				m_e		
MEM	1.46	227.6	Sg	16:50:34.156	0.5					___				m_e		
HILG	1.47	206.6	Pg	16:50:15.110	0.3					___				m_e		
LOH	1.61	207.9	Pg	16:50:16.670	-0.7					___				m_e		
LOH	1.61	207.9	Sg	16:50:37.174	-1.0					___		57.7	0.20	m_e		
CLZ	1.67	81.0	Pn	16:50:17.635	1.0					___				m_e	ML	2.7
CLZ	1.67	81.0	Pg	16:50:19.545	1.1					___				m_e		
CLZ	1.67	81.0	Sg	16:50:42.783	2.8					___				m_e		
NRDL	1.72	58.1	Pn	16:50:20.101	2.7					___				m_e		
NRDL	1.72	58.1	Pg	16:50:23.209	3.7					___				m_e		
NRDL	1.72	58.1	Sg	16:50:45.287	3.6					___				m_e		
WLF	2.18	207.5	Pn	16:50:25.084	1.5					___				m_e	ML	2.6
WLF	2.18	207.5	Pg	16:50:28.458	0.2					___				m_e		
WLF	2.18	207.5	Sg	16:50:54.495	-1.9					___				m_e		

Event	430003 Poland		Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/04/30	03:51:36.50		0.44	0.21	51.8130	16.4380				5.0f			8	349	5.74	6.49	m i ke	BNS	430013
2010/04/30	03:51:39.16		0.34	0.81	51.5540	16.0760	4.4	2.2	014	1.0f		41	22	201	0.72	3.60	m i ki	BGR	430003

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.9		BNS	430013
ML	4.1	0.3	22 BGR	430003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.72	169.1	Pg	03:51:52.609	-0.2					T__				m_e ML	3.5
KSP	0.72	169.1	Sg	03:52:02.323	0.2					T__				m_e	
DPC	1.21	172.6	Pg	03:52:01.418	-0.6					T__				m_e ML	4.2
DPC	1.21	172.6	Sg	03:52:17.358	-0.4					T__				m_e	
PVCC	1.40	223.3	Pn	03:52:04.709	-0.3					T__				m_e ML	4.5
PVCC	1.40	223.3	Sg	03:52:25.201	1.7					T__				m_e	
BRG	1.50	243.8	Pn	03:52:05.654	-0.8					T__				m_e ML	4.1
BRG	1.50	243.8	Sg	03:52:27.694	0.9					T__				m_e	
FBE	1.82	250.7	Pn	03:52:10.194	-0.6					T__				m_e ML	3.2
FBE	1.82	250.7	Sg	03:52:37.606	0.7					T__				m_e	
PRU	1.84	212.4	Pn	03:52:10.656	-0.4					T__				m_e ML	3.8
PRU	1.84	212.4	Sg	03:52:37.206	-0.5					T__				m_e	
CLL	1.93	263.9	Pn	03:52:11.494	-0.8					T__				m_e ML	3.9
CLL	1.93	263.9	Sg	03:52:40.733	0.2					T__				m_e	
MORC	2.01	151.8	Pn	03:52:12.917	-0.4					T__				m_e ML	3.7
OKC	2.16	141.8	Pn	03:52:14.269	-1.1					T__				m_e ML	4.0
OKC	2.16	141.8	Sg	03:52:47.791	0.0					T__				m_e	
VRAC	2.27	171.5	Pn	03:52:16.767	-0.1					T__				m_e ML	3.8
KRUC	2.50	175.2	Pn	03:52:20.262	0.3					T__				m_e ML	3.9
KRUC	2.50	175.2	Sg	03:52:58.942	0.4					T__				m_e	
TANN	2.54	244.8	Pn	03:52:20.886	0.3					T__				m_e ML	4.3
TANN	2.54	244.8	Sg	03:52:59.764	-0.2					T__				m_e	
WERD	2.62	246.5	Pn	03:52:21.729	0.1					T__				m_e ML	4.2
WERD	2.62	246.5	Pg	03:52:28.008	-0.5					T__				m_e	
WERD	2.62	246.5	Sg	03:53:02.479	0.2					T__				m_e	
OJC	2.70	118.2	Pn	03:52:20.937	-1.8					T__				m_e ML	4.2
OJC	2.70	118.2	Sg	03:53:05.537	0.6					T__				m_e	
JAVC	2.88	158.6	Pn	03:52:26.288	1.1					T__				m_e ML	4.1
JAVC	2.88	158.6	Sg	03:53:12.774	2.1					T__				m_e	
MOX	2.94	253.8	Pn	03:52:26.033	0.0					T__				m_e ML	4.5
MOX	2.94	253.8	Sg	03:53:12.542	-0.2					T__				m_e	
MANZ	2.96	239.6	Pn	03:52:26.585	0.4					T__				m_e ML	4.3
ROTZ	3.03	235.4	Pn	03:52:27.803	0.6					T__				m_e ML	4.2
ROTZ	3.03	235.4	Sg	03:53:15.133	-0.4					T__				m_e	
GEC2	3.11	210.2	Pn	03:52:28.525	0.3					T__				m_e ML	4.3
GEC2	3.11	210.2	Sg	03:53:16.247	-1.6					T__				m_e	
WET	3.16	221.5	Pn	03:52:29.054	0.1					T__				m_e ML	4.1
WET	3.16	221.5	Sg	03:53:18.382	-1.1					T__				m_e	
CLZ	3.55	276.9	Pn	03:52:35.301	1.1					T__				m_e ML	4.3
GRA1	3.60	240.7	Pn	03:52:35.802	0.9					T__				m_e ML	4.8

GRA1	3.60	240.7	Sg	03:53:34.799	1.4	T__	m_e
HOBG	5.50	267.5	Pn	03:53:01.300	0.7	---	m_e
BNS	5.60	267.4	Pn	03:53:02.600	0.6	---	m_e
BGG	5.67	259.7	Pn	03:53:04.100	1.1	---	m_e
LAUG	5.69	271.5	Pn	03:53:03.800	0.5	---	m_e
STB	5.88	264.2	Pn	03:53:07.000	1.2	---	m_e
HILG	6.05	261.6	Pn	03:53:09.500	1.3	---	m_e
KLL	6.19	265.4	Pn	03:53:11.100	1.0	---	m_e
DREG	6.24	265.7	Pn	03:53:11.400	0.7	---	m_e
DREG	6.24	265.7	Sn	03:54:23.900	6.7	---	m_e

DATA_TYPE ARRIVAL: REVIEWED IMS1.0

Net	Sta	Chan	Aux	Date	Time	Phase	Azim	Slow	SNR	Amp	Per	Qual	Author	ArrID
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