

DATA_TYPE BULLETIN IMS1.0

BGR Bulletin for Germany and adjacent areas

Event 81104006 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/04	22:26:57.30			51.5390	15.9880				10.0f							m i uk	NEIC	81104016
2008/11/04	22:26:56.70	0.39	0.64	51.4420	16.1190	4.4	2.2	022	1.0f		33	16	197	0.61	3.59	m i ki	BGR	81104006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.0		NEIC	81104016
ML	3.2	0.4	16 BGR	81104006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.61	169.6	Pg	22:27:08.677	0.5					T__				m_e ML	2.5
KSP	0.61	169.6	Sg	22:27:17.126	1.1					T__				m_e	
DPC	1.10	173.2	Pg	22:27:17.494	0.1					T__				m_e ML	2.7
DPC	1.10	173.2	Sg	22:27:32.083	0.5					T__				m_e	
BRG	1.48	248.2	Pn	22:27:23.048	-0.7					T__				m_e ML	3.2
BRG	1.48	248.2	Pg	22:27:24.440	-0.1					T__				m_e	
BRG	1.48	248.2	Sg	22:27:44.417	0.7					T__				m_e	
FBE	1.81	254.4	Pn	22:27:27.818	-0.4					T__				m_e ML	2.4
FBE	1.81	254.4	Pg	22:27:30.150	-0.7					T__				m_e	
FBE	1.81	254.4	Sg	22:27:53.874	-0.3					T__				m_e	
MORC	1.89	151.0	Pn	22:27:29.313	-0.0					T__				m_e ML	2.8
MORC	1.89	151.0	Sg	22:27:56.687	-0.2					T__				m_e	
CLL	1.95	267.3	Pn	22:27:29.300	-0.8					T__				m_e ML	3.1
CLL	1.95	267.3	Sg	22:27:58.754	0.1					T__				m_e	
OKC	2.06	140.5	Pn	22:27:31.441	-0.1					T__				m_e ML	3.2
OKC	2.06	140.5	Pg	22:27:35.213	-0.2					T__				m_e	
OKC	2.06	140.5	Sg	22:28:01.212	-0.8					T__				m_e	
TANN	2.52	247.4	Pn	22:27:38.327	0.5					T__				m_e ML	3.3
TANN	2.52	247.4	Pg	22:27:44.193	-0.1					T__				m_e	
TANN	2.52	247.4	Sg	22:28:16.316	-0.6					T__				m_e	
WERD	2.60	249.0	Pn	22:27:39.121	0.2					T__				m_e ML	3.3
WERD	2.60	249.0	Pg	22:27:45.810	0.1					T__				m_e	
OJC	2.63	116.3	Pn	22:27:37.940	-1.3					T__				m_e ML	3.3
MOX	2.94	256.0	Pn	22:27:43.714	0.2					T__				m_e ML	3.6
MOX	2.94	256.0	Pg	22:27:52.057	-0.1					T__				m_e	
MOX	2.94	256.0	Sg	22:28:30.649	0.5					T__				m_e	
ROTZ	2.99	237.5	Pn	22:27:44.821	0.6					T__				m_e ML	3.2
ROTZ	2.99	237.5	Sg	22:28:31.116	-0.7					T__				m_e	
GEC2	3.02	211.8	Pn	22:27:45.687	1.0					T__				m_e ML	3.4
GEC2	3.02	211.8	Sg	22:28:32.348	-0.4					T__				m_e	
WET	3.09	223.3	Pn	22:27:46.290	0.7					T__				m_e ML	3.2
GRA1	3.57	242.5	Pn	22:27:52.891	0.9					T__				m_e ML	3.8
CLZ	3.59	278.6	Pn	22:27:53.348	1.1					T__				m_e ML	3.4

Event 81109001 Switzerland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/09	07:22:33.63	0.44	1.54	46.8920	9.2020	7.8	5.6	023	10.0f		39	14	253	0.61	4.08	m i ke	BGR	81109021

2008/11/09 07:22:32.59	0.38	0.38	46.8230	9.2220	4.4	2.8	343	10.0f	35	18	237	0.88	3.44	m i ke LED	81109011
2008/11/09 07:22:31.30			46.8000	9.2000				7.0						m i uk SED	81109001
(#PRIME)															

Magnitude	Err	Nsta	Author	OrigID
ML	3.7	0.2	14 BGR	81109021
ML	3.8	0.2	15 LED	81109011
ML	3.7		SED	81109001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
DAVA	0.67	43.4	Pg	07:22:43.861	-0.2									m_e	ML 3.4
DAVA	0.67	43.4	Sg	07:22:54.010	1.3									m_e	
SISB	0.90	349.9	P*	07:22:49.360										mc_	ML 3.9
SISB	0.90	349.9	PmP	07:22:51.260	0.8									m_	
SISB	0.90	349.9	S*	07:23:02.030										m_	
SISB	0.90	349.9	SmS	07:23:04.900	1.2									m_	
OBER	0.96	50.4	P*	07:22:49.950										mc_	ML 4.0
OBER	0.96	50.4	Pg	07:22:50.000	0.6									mci	
OBER	0.96	50.4	PmP	07:22:52.600	1.1									m_	
OBER	0.96	50.4	Sg	07:23:03.700	1.8									mci	
UBR	1.07	34.7	P*	07:22:52.620										mc_	ML 3.8
UBR	1.07	34.7	Pg	07:22:53.230	1.6									m_	
UBR	1.07	34.7	S*	07:23:07.490										m_	
GUT	1.27	357.4	P*	07:22:55.340										mc_	ML 4.1
GUT	1.27	357.4	Pg	07:22:56.720	1.4									md_	
BBS	1.33	300.6	P	07:22:56.960										md_	
SPAK	1.33	348.0	P	07:22:56.350										m_	
FELD	1.35	323.5	P	07:22:56.900										m_	
KIZ	1.45	323.6	P	07:22:57.980										mc_	ML 4.0
KIZ	1.45	323.6	Pg	07:22:59.140	0.6									m_	
KIZ	1.45	323.6	PmP	07:22:59.570	-0.4									m_	
KIZ	1.45	323.6	Sg	07:23:18.510	1.2									m_	
PART	1.48	61.1	Pn	07:22:59.600	2.0									mci	ML 3.4
PART	1.48	61.1	Sn	07:23:20.300	4.1									mce	
FBB	1.51	323.3	Pg	07:23:00.430	0.7									m_	ML 4.0
FBB	1.51	323.3	S	07:23:17.520										m_	
FBB	1.51	323.3	Sg	07:23:20.310	1.1									m_	
BFO	1.64	339.3	P	07:23:00.500										mc_	ML 3.9
BFO	1.64	339.3	Pg	07:23:02.950	0.7									m_	
BFO	1.64	339.3	S	07:23:20.150										m_	
BFO	1.64	339.3	Sg	07:23:23.980	0.6									m_	
BUCH	1.65	3.5	P	07:23:00.400										mc_	ML 3.9
BUCH	1.65	3.5	Pg	07:23:03.280	0.8									m_	
BUCH	1.65	3.5	Sg	07:23:25.120	1.3									m_	
LOMF	1.71	289.7	P	07:23:02.440										md_	
WTTA	1.72	73.5	Pn	07:23:03.441	2.5									m_e	ML 3.6
WTTA	1.72	73.5	Pg	07:23:05.066	1.3									m_e	
WTTA	1.72	73.5	Sg	07:23:29.162	3.1									m_e	
TUBL	1.72	357.4	P	07:23:01.570										mc_	ML 3.8
TUBL	1.72	357.4	S	07:23:22.110										m_	
TUBL	1.72	357.4	Sg	07:23:26.930	0.8									m_	
LIBD	1.73	322.0	Pg	07:23:04.950	1.0									m_	
LIBD	1.73	322.0	Sg	07:23:27.580	1.3									m_	
SCE	1.73	81.2	Pn	07:23:02.400	1.4									mci	ML 3.5

MOF	1.75	307.6	P	07:23:02.610											m__		
LBG	1.88	351.8	P	07:23:03.630											mc_ ML	3.7	
LBG	1.88	351.8	Sg	07:23:31.500	0.3										m__		
FUR	1.96	45.1	Pn	07:23:05.651	1.6										m_e ML	4.0	
FUR	1.96	45.1	Pg	07:23:08.457	0.3										m_e		
FUR	1.96	45.1	Sg	07:23:34.619	1.2										m_e		
STU	1.97	359.9	P	07:23:04.550											mc_ ML	3.6	
STU	1.97	359.9	Sg	07:23:34.432	0.5										m_e		
ECH	1.98	316.5	P	07:23:05.550											m__ ML	3.0	
NORI	2.15	26.0	Pn	07:23:06.600	-0.0										mci ML	3.7	
LANF	2.37	337.3	P	07:23:10.980											mc_		
LANF	2.37	337.3	S	07:23:37.340											m__		
SIND	2.56	5.9	P	07:23:11.900											mc_ ML	3.5	
SIND	2.56	5.9	Sg	07:23:52.740	-0.0										m__		
THEF	2.59	304.6	Pg	07:23:15.490	-4.7										m__		
RJOB	2.61	67.7	Pn	07:23:15.750	2.8										m_e ML	3.7	
RJOB	2.61	67.7	Sn	07:23:49.107	6.2										m_e		
RJOB	2.61	67.7	Sg	07:23:56.335	2.0										m_e		
SWS	2.70	353.1	P	07:23:14.480											mc_ ML	3.6	
SWS	2.70	353.1	Sn	07:23:46.530	1.5										m__		
TOD	2.82	354.8	P	07:23:15.900											m__		
TOD	2.82	354.8	Sn	07:23:49.850	2.1										m__		
KBA	2.84	82.9	Pn	07:23:20.073	4.0										m_e ML	3.4	
KBA	2.84	82.9	Sg	07:24:02.558	0.9										m_e		
GRA1	3.19	24.2	Pn	07:23:20.070	-0.7										m_e ML	3.8	
GRA1	3.19	24.2	Pg	07:23:32.184	0.8										m_e		
GRA1	3.19	24.2	Sg	07:24:12.658	0.0										m_e		
RUP	3.23	334.6	Pn	07:23:23.730	2.4										m__		
ABH	3.27	341.0	Pn	07:23:23.620	1.7										m__		
WET	3.40	45.1	Pn	07:23:24.464	0.8										m_e ML	3.7	
WET	3.40	45.1	Pg	07:23:35.236	-0.1										m_e		
WET	3.40	45.1	Sn	07:24:04.348	3.0										m_e		
WET	3.40	45.1	Sg	07:24:16.921	-2.4										m_e		
TNS	3.46	352.0	P	07:23:25.330											mc_ ML	3.5	
TNS	3.46	352.0	Sn	07:24:05.477	2.7										m_e		
ROTZ	3.58	32.9	Pn	07:23:25.559	-0.5										m_e ML	3.7	
ROTZ	3.58	32.9	Pg	07:23:38.804	0.1										m_e		
ROTZ	3.58	32.9	Sg	07:24:23.675	-1.3										m_e		
MOA	3.59	71.2	Pn	07:23:28.765	2.5										m_e ML	3.7	
MOA	3.59	71.2	Pg	07:23:38.419	-0.5										m_e		
MOA	3.59	71.2	Sg	07:24:26.345	1.0										m_e		
GEC2	3.65	54.3	Pn	07:23:28.514	1.5										m_e ML	3.8	
GEC2	3.65	54.3	Pg	07:23:39.793	-0.3										m_e		
GEC2	3.65	54.3	Sn	07:24:09.686	2.4										m_e		
GEC2	3.65	54.3	Sg	07:24:26.482	-0.7										m_e		
MOX	4.16	21.6	Pn	07:23:32.740	-1.2										m_e ML	3.8	
MOX	4.16	21.6	Pg	07:23:50.349	0.6										m_e		
MOX	4.16	21.6	Sg	07:24:43.060	-0.5										m_e		

Event 81110010 Dorsten, N of Bottrop

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
------	------	-----	-----	----------	-----------	------	------	----	-------	-----	------	------	-----	-------	-------	------	--------	--------

2008/11/10 10:43:08.50	0.36	0.11	51.6550	6.8890					1.0f		5	314	0.73	1.34	m i ki	BNS	81110030
2008/11/10 10:43:09.87	0.47	0.70	51.5500	7.0840	6.7	4.4	124	1.0f		9	6	178	0.16	2.06	m i ki	BGR	81110020
2008/11/10 10:43:08.00			51.6230	7.0000				1.0f				228	0.08	0.25	m i ki	BUG	81110010

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9		BNS	81110030
ML	2.1	0.3	5 BGR	81110020
ML	2.0		BUG	81110010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ZERL	0.08	268.4	Pg	10:43:10.400	0.9					T__				m__	ML	1.1
ZERL	0.08	268.4	Sg	10:43:12.400	1.8					T__				m__		
BUG	0.25	137.3	Pg	10:43:13.800	1.1					TA_				mde	ML	2.0
BUG	0.25	137.3	Sg	10:43:17.900	2.0					TA_				m__		
HOBG	0.67	161.8	Pg	10:43:22.470	1.8					---				m_e		
IBBN	0.83	34.1	Pg	10:43:25.360	1.8					---				m_e	ML	2.2
IBBN	0.83	34.1	Sg	10:43:37.577	3.3					---				m_e		
STB	1.03	185.6	Pg	10:43:28.330	0.8					---				m_e		
STB	1.03	185.6	Sg	10:43:43.120	2.3					---		30.7	0.63	m_e		
KLL	1.07	204.1	Pg	10:43:28.510	0.4					---				m_e		
DREG	1.07	206.9	Pg	10:43:29.283	1.0					---				m_e		
DREG	1.07	206.9	Sg	10:43:43.243	1.1					---				m_e		
KOE	1.28	158.7	Pg	10:43:32.420	0.2					---				m_e		
TNS	1.67	146.4	Pg	10:43:39.344	-0.2					---				m_e	ML	2.1
TNS	1.67	146.4	Sg	10:43:59.660	-1.4					---				m_e		
GTTG	1.84	91.3	Sg	10:44:06.103	-0.5					---				m_e	ML	2.4
CLZ	2.10	82.7	Sg	10:44:16.735	2.0					---				m_e	ML	2.4

Event 81112009 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/12	20:56:59.57	0.52	0.74	51.3355	7.0082	4.1	2.7	146	1.0	0.0	13	4	329			m i uk	ZAMG	81112049
2008/11/12	20:56:56.20	0.06	0.47	51.5086	6.5729	1.3	0.9	153	1.0f		96	24	154			m i sr	LDG	81112039
2008/11/12	20:56:56.60	1.60	0.51	51.4760	6.5920				1.9	26.6		11	261	0.25	1.35	m i ki	BNS	81112029
2008/11/12	20:56:56.55	0.40	0.76	51.4610	6.6190	4.4	2.2	129	1.0f		33	15	202	0.41	3.99	m i ki	BGR	81112019
2008/11/12	20:56:55.30			51.4720	6.5910				1.0f				250	0.05	0.42	m i ki	BUG	81112009

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3	0.3	3 ZAMG	81112049
ML	3.4	0.2	29 LDG	81112039
ML	2.7		BNS	81112029
ML	3.0	0.2	12 BGR	81112019
ML	2.7		BUG	81112009

Effects	Loctyp	Location	Intensity	Scale	Author
F	Summar		4.0	EMS	BNS

(Felt in Moers (IV) and Kamp-Lintfort (III).)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRHE	0.05	344.1	Pg	20:56:55.800	-0.4					T__				m__	ML	2.5

Event 81114007 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/14	20:19:41.49	0.43	0.77	51.4780	16.1220	5.6	2.2	018	1.0f		25	15	199	0.64	3.59	m i ki	BGR	81114027

Magnitude	Err	Nsta	Author	OrigID
ML	3.2	0.4	12 BGR	81114027

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.64	170.3	Pg	20:19:53.311	-0.3					T__				m_e ML	2.5
KSP	0.64	170.3	Sg	20:20:01.329	-0.6					T__				m_e	
DPC	1.13	173.5	Pg	20:20:02.154	-0.7					T__				m_e ML	2.8
DPC	1.13	173.5	Sg	20:20:19.377	1.8					T__				m_e	
BRG	1.49	247.0	Pn	20:20:08.681	-0.0					T__				m_e ML	3.1
BRG	1.49	247.0	Sg	20:20:29.015	0.1					T__				m_e	
FBE	1.82	253.3	Pn	20:20:14.919	1.8					T__				m_e ML	2.4
FBE	1.82	253.3	Sg	20:20:38.560	-0.8					T__				m_e	
MORC	1.93	151.5	Pn	20:20:14.061	-0.5					T__				m_e ML	2.9
CLL	1.95	266.2	Pn	20:20:14.272	-0.7					T__				m_e ML	3.2
OKC	2.08	141.2	Pg	20:20:19.909	-0.8					T__				m_e ML	3.3
OKC	2.08	141.2	Sg	20:20:46.926	-0.7					T__				m_e	
WERD	2.61	248.3	Pg	20:20:30.299	-0.5					T__				m_e ML	3.4
WERD	2.61	248.3	Sg	20:21:05.358	0.8					T__				m_e	
OJC	2.64	117.0	Pg	20:20:30.934	-0.3					T__				m_e ML	3.4
OJC	2.64	117.0	Sg	20:21:06.236	0.9					T__				m_e	
MOX	2.95	255.4	Pg	20:20:36.829	-0.3					T__				m_e ML	3.6
MOX	2.95	255.4	Sg	20:21:15.531	0.3					T__				m_e	
ROTZ	3.02	237.0	Pn	20:20:29.547	0.2					T__				m_e	
GEC2	3.06	211.4	Pn	20:20:30.682	0.8					T__				m_e	
WET	3.12	222.8	Pn	20:20:31.057	0.3					T__				m_e	
CLZ	3.58	278.1	Pn	20:20:37.587	0.5					T__				m_e ML	3.5
CLZ	3.58	278.1	Sg	20:21:35.131	-0.2					T__				m_e	
GRA1	3.59	242.1	Pn	20:20:37.627	0.6					T__				m_e ML	3.9
GRA1	3.59	242.1	Sg	20:21:35.376	-0.0					T__				m_e	

Event 81115004 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/15	16:32:56.50	0.41	0.69	51.4650	16.0900	5.6	2.2	019	1.0f		28	16	198	0.63	3.57	m i ki	BGR	81115024

Magnitude	Err	Nsta	Author	OrigID
ML	3.5	0.4	16 BGR	81115024

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.63	168.3	Pg	16:33:08.623	0.2					T__				m_e ML	2.8
KSP	0.63	168.3	Sg	16:33:18.086	1.4					T__				m_e	
DPC	1.12	172.4	Pg	16:33:17.374	-0.3					T__				m_e ML	3.0
DPC	1.12	172.4	Sg	16:33:32.647	0.4					T__				m_e	
BRG	1.47	247.1	Pg	16:33:24.425	0.2					T__				m_e ML	3.4
BRG	1.47	247.1	Sg	16:33:44.141	0.9					T__				m_e	
FBE	1.80	253.5	Pn	16:33:27.394	-0.4					T__				m_e ML	2.7
FBE	1.80	253.5	Pg	16:33:29.647	-0.8					T__				m_e	
FBE	1.80	253.5	Sg	16:33:53.905	0.3					T__				m_e	

MORC	1.92	150.8	Pn	16:33:29.153	-0.4	T__	m_e	ML	3.1
MORC	1.92	150.8	Sg	16:33:56.557	-1.0	T__	m_e		
CLL	1.93	266.5	Pn	16:33:28.777	-0.9	T__	m_e	ML	3.5
CLL	1.93	266.5	Sg	16:33:57.965	0.1	T__	m_e		
OKC	2.09	140.5	Pn	16:33:31.016	-0.7	T__	m_e	ML	3.6
OKC	2.09	140.5	Pg	16:33:35.173	-0.6	T__	m_e		
OKC	2.09	140.5	Sg	16:34:01.994	-0.8	T__	m_e		
TANN	2.52	246.7	Pn	16:33:37.968	0.4	T__	m_e	ML	3.6
TANN	2.52	246.7	Sg	16:34:15.546	-0.9	T__	m_e		
WERD	2.59	248.4	Pn	16:33:38.675	0.1	T__	m_e	ML	3.7
WERD	2.59	248.4	Sg	16:34:18.552	-0.3	T__	m_e		
OJC	2.65	116.6	Pg	16:33:46.268	-0.2	T__	m_e	ML	3.7
OJC	2.65	116.6	Sg	16:34:22.254	1.5	T__	m_e		
MOX	2.93	255.5	Pn	16:33:43.066	-0.1	T__	m_e	ML	3.9
ROTZ	2.99	236.9	Pn	16:33:44.458	0.4	T__	m_e	ML	3.5
GEC2	3.03	211.2	Pn	16:33:45.013	0.4	T__	m_e	ML	3.7
WET	3.10	222.7	Pn	16:33:45.847	0.4	T__	m_e	ML	3.5
GRA1	3.56	242.1	Pn	16:33:52.579	0.8	T__	m_e	ML	4.2
CLZ	3.57	278.3	Pn	16:33:52.590	0.8	T__	m_e	ML	3.7

Event 81115005 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/15	16:42:14.26	0.48	0.82	51.4980	16.1590	6.7	3.3	027	1.0f		26	16	200	0.66	3.62	m i ki	BGR	81115025

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.3	14 BGR	81115025

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.66	172.6	Pg	16:42:26.865	0.2					T__				m_e	ML 2.5
KSP	0.66	172.6	Sg	16:42:35.435	0.2					T__				m_e	
DPC	1.15	174.8	Pg	16:42:35.641	-0.3					T__				m_e	ML 2.9
DPC	1.15	174.8	Sg	16:42:52.514	1.6					T__				m_e	
BRG	1.52	246.6	Pn	16:42:41.345	-0.5					T__				m_e	ML 3.0
BRG	1.52	246.6	Pg	16:42:42.679	-0.3					T__				m_e	
BRG	1.52	246.6	Sg	16:43:02.642	-0.0					T__				m_e	
FBE	1.85	252.9	Pg	16:42:48.516	-0.6					T__				m_e	ML 2.3
FBE	1.85	252.9	Sg	16:43:12.285	-0.7					T__				m_e	
MORC	1.93	152.5	Pn	16:42:47.595	0.2					T__				m_e	ML 3.0
MORC	1.93	152.5	Pg	16:42:50.069	-0.6					T__				m_e	
MORC	1.93	152.5	Sg	16:43:14.685	-1.0					T__				m_e	
CLL	1.98	265.7	Pg	16:42:50.137	-1.4					T__				m_e	ML 3.0
CLL	1.98	265.7	Sg	16:43:17.068	-0.0					T__				m_e	
OKC	2.08	142.0	Pg	16:42:53.150	-0.4					T__				m_e	ML 3.2
OKC	2.08	142.0	Sg	16:43:19.939	-0.5					T__				m_e	
TANN	2.57	246.5	Pn	16:42:56.364	0.3					T__				m_e	ML 3.3
OJC	2.63	117.7	Pn	16:42:56.298	-0.6					T__				m_e	ML 3.4
WERD	2.64	248.1	Pn	16:42:57.595	0.5					T__				m_e	ML 3.3
WERD	2.64	248.1	Pg	16:43:03.246	-0.8					T__				m_e	
MOX	2.98	255.1	Pn	16:43:02.105	0.5					T__				m_e	ML 3.5
ROTZ	3.05	236.9	Pn	16:43:03.202	0.7					T__				m_e	ML 3.2
GEC2	3.08	211.6	Pn	16:43:04.153	1.1					T__				m_e	ML 3.4

WET	3.15	222.9	Pn	16:43:04.413	0.5					T__					m_e	ML	3.2
CLZ	3.60	277.7	Pn	16:43:11.359	1.3					T__					m_e		
GRA1	3.62	242.0	Pn	16:43:11.264	1.0					T__					m_e		

Event 81117005 Klingenthal, Kraslice/CR, Erzgebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/17	16:09:15.32	0.23	0.50	50.1687	12.3663	2.8	2.0	071	6.1	2.2	13	3	296			m i uk	ZAMG	81117015
2008/11/17	16:09:15.69	0.23		50.2220	12.4500	2.2	1.1	109	10.9	2.2	32	16	110	0.08	1.15	m i ke	BGR	81117005

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.9	0.2	5 ZAMG	81117015
ML	2.6	0.2	6 BGR	81117005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WERN	0.08	324.2	Pg	16:09:18.332	0.3					T__				m_e	
WERN	0.08	324.2	Sg	16:09:19.835	0.1					T__				m_e	
ROHR	0.09	278.5	Pg	16:09:18.269	0.1					T__				m_e	
ROHR	0.09	278.5	Sg	16:09:19.816	-0.0					T__				m_e	
GUNZ	0.16	331.9	Pg	16:09:19.579	0.3					T__				m_e	
GUNZ	0.16	331.9	Sg	16:09:21.855	0.2					T__				m_e	
MULD	0.19	351.2	Pg	16:09:20.057	0.3					T__				m_e	
MULD	0.19	351.2	Sg	16:09:22.614	0.1					T__				m_e	
TANN	0.19	2.2	Pg	16:09:20.018	0.3					T__				m_e	
TANN	0.19	2.2	Sg	16:09:22.609	0.0					T__				m_e	
TRIB	0.24	303.1	Pg	16:09:20.849	0.3					T__				m_e	
TRIB	0.24	303.1	Sg	16:09:24.139	0.3					T__				m_e	
WERD	0.24	337.9	Pg	16:09:20.962	0.3					T__				m_e	
WERD	0.24	337.9	Sg	16:09:23.983	-0.0					T__				m_e	
PLN	0.32	324.7	Pg	16:09:22.406	0.4					T__				m_e	
PLN	0.32	324.7	Sg	16:09:26.670	0.3					T__				m_e	
SCHF	0.46	356.3	Pg	16:09:24.843	0.4					T__				m_e	ML 2.8
SCHF	0.46	356.3	Sg	16:09:30.738	0.2					T__				m_e	
ROTZ	0.48	199.0	Pg	16:09:25.181	0.2					T__				m_e	
ROTZ	0.48	199.0	Sg	16:09:31.617	0.3					T__				m_e	
MOX	0.68	308.8	Pg	16:09:29.006	0.4					T__				m_e	ML 2.3
MOX	0.68	308.8	Sg	16:09:38.006	0.5					T__				m_e	
FBE	0.90	39.0	Pg	16:09:33.303	0.5					T__				m_e	
FBE	0.90	39.0	Sg	16:09:44.953	0.4					T__				m_e	
GRA1	0.95	236.6	Pg	16:09:34.129	0.4					T__				m_e	ML 2.7
GRA1	0.95	236.6	Sg	16:09:46.349	0.3					T__				m_e	
WET	1.11	165.4	Pg	16:09:36.737	-0.0					T__				m_e	ML 2.6
WET	1.11	165.4	Sg	16:09:50.731	-0.5					T__				m_e	
CLL	1.14	17.6	Pg	16:09:36.934	-0.3					T__				m_e	ML 2.6
CLL	1.14	17.6	Sg	16:09:52.156	0.1					T__				m_e	
BRG	1.15	55.0	Pg	16:09:37.692	0.2					T__				m_e	ML 2.8
BRG	1.15	55.0	Sg	16:09:52.319	-0.1					T__				m_e	

Event 81119001 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/19	00:45:15.15	0.34	0.96	50.1760	19.0280	10.0	3.3	172	1.0f		17	12	155	0.50	4.40	m i ki	BGR	81119001

Magnitude	Err	Nsta	Author	OrigID
ML	3.2	0.3	7 BGR	81119001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OJC	0.50	84.7	Pg	00:45:24.236	-0.2					T__				m_e ML	2.8
OJC	0.50	84.7	Sg	00:45:30.913	0.0					T__				m_e	
OKC	0.66	239.5	Pg	00:45:27.675	0.1					T__				m_e	
OKC	0.66	239.5	Sg	00:45:37.277	1.2					T__				m_e	
MORC	1.04	247.9	Pg	00:45:35.068	0.4					T__				m_e ML	2.8
MORC	1.04	247.9	Sg	00:45:48.924	0.9					T__				m_e	
DPC	1.74	276.8	Pn	00:45:45.549	-0.1					T__				m_e ML	3.0
DPC	1.74	276.8	Pg	00:45:47.503	-0.4					T__				m_e	
KSP	1.86	292.0	Pn	00:45:47.982	0.6					T__				m_e	
FBE	3.68	283.9	Sg	00:47:14.441	2.4					T__				m_e ML	3.3
GEC2	3.70	251.0	Pg	00:46:25.052	0.1					T__				m_e ML	3.6
CLL	3.98	288.9	Pg	00:46:30.712	0.6					T__				m_e	
WET	4.11	257.8	Sg	00:47:24.225	-1.5					T__				m_e ML	3.5
TANN	4.20	275.8	Pg	00:46:33.461	-0.8					T__				m_e ML	3.5
TANN	4.20	275.8	Sg	00:47:27.995	-0.6					T__				m_e	
WERD	4.30	276.2	Pg	00:46:35.028	-1.1					T__				m_e	
ROTZ	4.40	267.3	Sg	00:47:34.714	-0.4					T__				m_e	

Event 81119007 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/19	16:51:03.86	0.32	0.64	50.0990	18.4050	4.4	3.3	001	1.0f		16	11	142	0.31	3.81	m i ki	BGR	81119007

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.4	8 BGR	81119007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OKC	0.31	212.5	Pg	16:51:09.244	-0.5					T__				m_e ML	2.6
OKC	0.31	212.5	Sg	16:51:14.233	0.5					T__				m_e	
MORC	0.64	240.2	Pg	16:51:15.681	-0.3					T__				m_e ML	2.7
MORC	0.64	240.2	Sg	16:51:24.816	0.6					T__				m_e	
OJC	0.90	81.8	Pg	16:51:20.340	-0.5					T__				m_e	
OJC	0.90	81.8	Sg	16:51:32.993	0.5					T__				m_e	
DPC	1.36	281.5	Pn	16:51:29.256	0.1					T__				m_e ML	2.9
KSP	1.54	299.8	Pn	16:51:31.478	-0.2					T__				m_e ML	2.7
KSP	1.54	299.8	Sg	16:51:53.685	1.0					T__				m_e	
BRG	2.94	287.0	Pg	16:51:58.671	-0.6					T__				m_e ML	3.3
BRG	2.94	287.0	Sg	16:52:36.574	-0.8					T__				m_e	
GEC2	3.30	249.5	Pg	16:52:05.905	-0.2					T__				m_e ML	3.4
FBE	3.31	286.3	Pg	16:52:06.626	0.3					T__				m_e	
CLL	3.63	291.5	Pg	16:52:13.505	1.3					T__				m_e ML	3.6
WET	3.70	257.2	Pg	16:52:13.523	-0.2					T__				m_e ML	3.6
TANN	3.81	277.0	Pg	16:52:15.459	-0.2					T__				m_e	

Event 81122001 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/22	07:41:21.90	0.10	0.84	51.5837	6.8516	1.9	1.5	145	1.0f		80	30	149			m i sr	LDG	81122031
2008/11/22	07:41:22.00	0.67	0.21	51.5890	6.8480				1.0f			9	290	0.61	1.42	m i ki	BNS	81122021
2008/11/22	07:41:22.03	0.46	0.99	51.5630	6.8590	7.8	4.4	125	1.0f		13	7	192	0.28	2.20	m i ki	BGR	81122011
2008/11/22	07:41:21.90			51.5870	6.9070				1.0f				202	0.04	0.27	m i ki	BUG	81122001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.4	0.4	2 LDG	81122031
ML	3.3	0.4	32 LDG	81122031
ML	2.8		BNS	81122021
ML	2.9	0.1	2 BGR	81122011
ML	2.4		BUG	81122001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ZERL	0.04	325.4	Pg	07:41:21.500	-1.2					T_				m_e	ML 2.2
ZERL	0.04	325.4	Sg	07:41:22.400	-0.8					T_				m_e	
BUG	0.27	122.9	Pg	07:41:28.000	1.0					TA_				m_e	ML 2.4
BUG	0.27	122.9	Sg	07:41:32.400	2.0					TA_				m_e	
RODG	0.63	226.0	Pg	07:41:33.330	-0.5									m_e	
BNS	0.65	164.8	Pg	07:41:34.740	0.7									m_e	
BNS	0.65	164.8	Sg	07:41:43.620	1.2							421.9	0.59	m_e	
HOBG	0.66	156.0	Pg	07:41:34.850	0.5									m_e	
IBBN	0.89	35.8	Pg	07:41:38.505	-0.2						11.1			m_e	ML 3.0
IBBN	0.89	35.8	Sg	07:41:52.148	2.0									m_e	
STB	0.99	182.5	Pg	07:41:40.820	0.2									m_e	
STB	0.99	182.5	Sg	07:41:54.610	1.1							174.5	0.74	m_e	
KLL	1.01	201.9	Pg	07:41:40.920	-0.1									m_e	
KLL	1.01	201.9	Sg	07:41:55.330	1.3							185.3	0.71	m_e	
DREG	1.02	204.9	Pg	07:41:40.376	-0.7						49.4			m_e	
DREG	1.02	204.9	Sg	07:41:54.984	0.8									m_e	
KOE	1.27	155.6	Pg	07:41:45.850	-0.0									m_e	
HILG	1.30	186.4	Pg	07:41:45.500	-1.0									m_e	
HILG	1.30	186.4	Sg	07:42:03.420	0.1							397.3	0.51	m_e	
BGG	1.41	168.7	Pg	07:41:47.520	-0.9									m_e	
BGG	1.41	168.7	Sg	07:42:05.530	-1.1							106.5	0.51	m_e	
TNS	1.67	144.0	Pn	07:41:51.608	0.1						13.5			m_e	ML 2.9
TNS	1.67	144.0	Sg	07:42:14.698	-0.4									m_e	
WLF	1.98	194.3	Pg	07:41:58.403	-0.8						5.4			m_e	
WLF	1.98	194.3	Sg	07:42:22.847	-2.0									m_e	
CLZ	2.16	81.9	Pg	07:42:02.215	-0.4						9.0			m_e	
CLZ	2.16	81.9	Sg	07:42:31.252	0.7									m_e	
NRDL	2.17	64.0	Pg	07:42:05.204	2.5						7.0			m_e	

Event 81122003 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
2008/11/22	16:31:14.50			51.4000	7.8400				5.0f							m i uk	NEIC	81122043

GEC2	3.20	252.5	Pg	22:28:56.002	-0.9	T__	8.7	m_e	
GEC2	3.20	252.5	Sg	22:29:39.288	1.1	T__	4.3	m_e	
FBE	3.33	289.7	Pn	22:28:50.297	1.5	T__	5.0	m_e	
FBE	3.33	289.7	Pg	22:28:58.245	-1.2	T__	4.2	m_e	
WET	3.62	260.0	Pn	22:28:52.996	0.3	T__	18.9	m_e ML	4.2
WET	3.62	260.0	Pg	22:29:03.831	-1.0	T__	2.2	m_e	
WET	3.62	260.0	Sg	22:29:52.044	0.4	T__	3.7	m_e	
CLL	3.66	294.6	Pn	22:28:53.269	0.0	T__	8.6	m_e ML	4.0
CLL	3.66	294.6	Pg	22:29:05.414	-0.3	T__	3.0	m_e	
CLL	3.66	294.6	Sg	22:29:53.198	0.2	T__	3.1	m_e	
NKC	3.79	277.3	Pn	22:28:56.194	1.2	T__	4.0	m_e	
NKC	3.79	277.3	Pg	22:29:07.778	-0.3	T__	7.6	m_e	
TANN	3.80	280.0	Pn	22:28:55.931	0.9	T__	6.8	m_e ML	4.0
TANN	3.80	280.0	Pg	22:29:07.210	-1.0	T__	6.0	m_e	
TANN	3.80	280.0	Sg	22:29:57.511	0.3	T__	1.8	m_e	
MULD	3.83	279.9	Pn	22:28:56.006	0.5	T__	4.3	m_e	
MULD	3.83	279.9	Pg	22:29:07.890	-1.0	T__	11.4	m_e	
MULD	3.83	279.9	Sg	22:29:59.679	1.3	T__	2.1	m_e	
WERN	3.84	278.0	Pn	22:28:56.067	0.4	T__	4.2	m_e	
WERN	3.84	278.0	Pg	22:29:08.495	-0.5	T__	5.7	m_e	
WERN	3.84	278.0	Sg	22:29:59.027	0.4	T__	2.3	m_e	
SCHF	3.87	283.8	Pn	22:28:57.634	1.6	T__	2.9	m_e	
SCHF	3.87	283.8	Pg	22:29:06.803	-2.7	T__	5.4	m_e	
SCHF	3.87	283.8	Sg	22:29:59.531	0.0	T__	2.8	m_e	
GUNZ	3.88	279.1	Pn	22:28:58.009	1.9	T__	5.3	m_e	
GUNZ	3.88	279.1	Pg	22:29:08.761	-0.9	T__	9.5	m_e	
GUNZ	3.88	279.1	Sg	22:30:00.330	0.6	T__	3.0	m_e	
ROHR	3.88	277.2	Pn	22:28:56.547	0.4	T__	2.9	m_e	
ROHR	3.88	277.2	Pg	22:29:08.783	-0.9	T__	4.4	m_e	
WERD	3.90	280.3	Pn	22:28:57.034	0.6	T__	4.1	m_e	
WERD	3.90	280.3	Pg	22:29:08.282	-1.8	T__	10.4	m_e	
WERD	3.90	280.3	Sg	22:30:00.982	0.5	T__	2.3	m_e	
ROTZ	3.96	270.4	Pn	22:28:57.562	0.4	T__	8.7	m_e	
ROTZ	3.96	270.4	Pg	22:29:09.611	-1.5	T__	2.4	m_e	
ROTZ	3.96	270.4	Sg	22:30:02.114	-0.1	T__	2.1	m_e	
HKWD	3.98	285.8	Pn	22:28:58.909	1.4	T__	2.4	m_e	
HKWD	3.98	285.8	Pg	22:29:10.889	-0.7	T__	5.1	m_e	
PLN	4.00	280.8	Pg	22:29:11.002	-0.9	T__	5.5	m_e	
TRIB	4.00	278.8	Pg	22:29:11.414	-0.6	T__	6.5	m_e	
TAUT	4.35	286.9	Pg	22:29:18.480	-0.2	T__	5.3	m_e	
TAUT	4.35	286.9	Sg	22:30:16.183	1.3	T__	3.2	m_e	
MOX	4.36	282.4	Pn	22:29:03.390	0.8	T__	6.1	m_e	
MOX	4.36	282.4	Pg	22:29:19.410	0.7	T__	6.1	m_e	
GRA1	4.60	270.1	Pn	22:29:06.930	1.1	T__	2.4	m_e	
GRA1	4.60	270.1	Pg	22:29:21.629	-1.6	T__	2.5	m_e	
GRA1	4.60	270.1	Sg	22:30:25.865	3.3	T__	2.5	m_e	
SCHD	4.60	280.6	Pn	22:29:06.930	1.0	T__	4.2	m_e	
SCHD	4.60	280.6	Pg	22:29:23.807	0.5	T__	3.4	m_e	

Event 81123006 Klingenthal, Kraslice/CR, Erzgebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
------	------	-----	-----	----------	-----------	------	------	----	-------	-----	------	------	-----	-------	-------	------	--------	--------

2008/11/23 18:44:17.60 0.07 0.34 50.2701 12.4239 2.3 1.2 146 2.0 0.0 30 9 056 m i ke LDG 81123016
 2008/11/23 18:44:18.42 0.23 50.2400 12.4500 2.2 1.1 110 9.7 2.1 32 16 109 0.07 1.14 m i ke BGR 81123006
 (#PRIME)

Magnitude Err Nsta Author OrigID
 ML 2.6 0.2 11 LDG 81123016
 ML 2.5 0.3 6 BGR 81123006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WERN	0.07	315.1	Pg	18:44:20.713	0.2					T__				m_e	
WERN	0.07	315.1	Sg	18:44:22.029	0.1					T__				m_e	
ROHR	0.09	266.4	Pg	18:44:20.879	0.2					T__				m_e	
ROHR	0.09	266.4	Sg	18:44:22.290	-0.0					T__				m_e	
GUNZ	0.14	328.6	Pg	18:44:21.934	0.3					T__				m_e	
GUNZ	0.14	328.6	Sg	18:44:23.909	0.1					T__				m_e	
MULD	0.17	350.3	Pg	18:44:22.351	0.3					T__				m_e	
MULD	0.17	350.3	Sg	18:44:24.629	0.0					T__				m_e	
TANN	0.18	2.4	Pg	18:44:22.240	0.1					T__				m_e	
TANN	0.18	2.4	Sg	18:44:24.579	-0.1					T__				m_e	
WERD	0.23	336.2	Pg	18:44:23.305	0.3					T__				m_e	
WERD	0.23	336.2	Sg	18:44:26.127	-0.0					T__				m_e	
TRIB	0.23	299.4	Pg	18:44:23.347	0.3					T__				m_e	
TRIB	0.23	299.4	Sg	18:44:26.475	0.3					T__				m_e	
PLN	0.31	322.8	Pg	18:44:24.841	0.4					T__				m_e	
PLN	0.31	322.8	Sg	18:44:28.712	0.1					T__				m_e	
SCHF	0.44	356.1	Pg	18:44:27.177	0.3					T__				m_e ML	2.9
SCHF	0.44	356.1	Sg	18:44:33.036	0.4					T__				m_e	
ROTZ	0.50	198.4	Pg	18:44:28.281	0.3					T__				m_e	
ROTZ	0.50	198.4	Sg	18:44:34.873	0.4					T__				m_e	
MOX	0.67	307.6	Pg	18:44:31.506	0.4					T__				m_e ML	2.0
MOX	0.67	307.6	Sg	18:44:40.538	0.7					T__				m_e	
FBE	0.89	39.8	Pg	18:44:35.747	0.5					T__				m_e	
FBE	0.89	39.8	Sg	18:44:46.996	0.1					T__				m_e	
GRA1	0.96	235.7	Pg	18:44:37.070	0.5					T__				m_e ML	2.7
GRA1	0.96	235.7	Sg	18:44:49.498	0.4					T__				m_e	
CLL	1.12	17.9	Pg	18:44:39.873	0.2					T__				m_e ML	2.6
CLL	1.12	17.9	Sg	18:44:54.532	0.3					T__				m_e	
WET	1.13	165.7	Pg	18:44:39.754	-0.0					T__				m_e ML	2.4
WET	1.13	165.7	Sg	18:44:54.229	-0.2					T__				m_e	
BRG	1.14	55.7	Pg	18:44:40.178	0.2					T__				m_e ML	2.6
BRG	1.14	55.7	Sg	18:44:55.198	0.4					T__				m_e	

Event 81125002 Rastatt/Upper Rhine Graben, French-German border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/25	04:52:29.30	0.05	0.58	48.8905	8.1986	1.0	0.9	168	10.0	0.0	62	18	036			m i ke	LDG	81125022
2008/11/25	04:52:29.68	0.38	1.04	48.9010	8.2800	5.6	4.4	024	10.0f		19	13	123	0.57	3.57	m i ke	BGR	81125012
2008/11/25	04:52:29.57	0.28	0.29	48.8720	8.2260	3.2	2.2	101	6.0	4.0	35	16	090	0.43	2.01	m i ke	LED	81125002

(#PRIME)

Magnitude Err Nsta Author OrigID
 MD 2.9 0.1 3 LDG 81125022

ML	2.8	0.4	18	LDG	81125022
ML	2.4	0.2	3	BGR	81125012
ML	2.4	0.2	15	LED	81125002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
LBG	0.43	118.8	P*	04:52:37.790						T__				mci	ML	2.2
LBG	0.43	118.8	S*	04:52:43.550						T__				m__		
BFO	0.55	172.8	P*	04:52:39.910						T__				mdi	ML	2.1
STU	0.64	98.7	P*	04:52:41.730						T__				m__	ML	2.4
STU	0.64	98.7	SmS	04:52:53.180	-2.0					T__				m__		
TUBL	0.66	121.4	P*	04:52:42.530						T__				m__	ML	2.5
TUBL	0.66	121.4	S*	04:52:51.080						T__				m__		
SWS	0.69	26.7	P*	04:52:42.300						T__				mc_	ML	2.4
SWS	0.69	26.7	PmP	04:52:43.860	-1.6					T__				m__		
SWS	0.69	26.7	S*	04:52:52.260						T__				m__		
SWS	0.69	26.7	SmS	04:52:54.290	-2.0					T__				m__		
TOD	0.83	27.0	P*	04:52:45.120						T__				m__		
SPAK	0.85	154.1	P*	04:52:45.980						T__				md_		
SPAK	0.85	154.1	PmP	04:52:46.620	-1.5					T__				m__		
BUCH	0.86	119.2	P*	04:52:46.000						T__				mci	ML	2.7
BUCH	0.86	119.2	S*	04:52:57.620						T__				m__		
BUCH	0.86	119.2	SmS	04:52:59.280	-1.6					T__				m__		
FBB	0.90	196.0	Sg	04:52:58.950	0.6					---				m__	ML	2.6
KIZ	0.94	192.7	P	04:52:47.010						T__				m__	ML	2.6
KIZ	0.94	192.7	Pg	04:52:47.200	-0.1					T__				md_		
KIZ	0.94	192.7	PmP	04:52:47.580	-1.9					T__				m__		
KIZ	0.94	192.7	Sg	04:52:59.890	0.5					T__				m__		
KIZ	0.94	192.7	SmS	04:53:00.640	-2.5					T__				m__		
ECH	0.96	227.5	P	04:52:47.300						T__				m__	ML	2.0
ECH	0.96	227.5	S	04:53:00.650						T__				m__		
GUT	0.99	143.3	P	04:52:48.340						T__				mdi	ML	2.7
GUT	0.99	143.3	Pg	04:52:49.010	0.7					T__				md_		
GUT	0.99	143.3	Sg	04:53:01.900	0.7					T__				m__		
FELD	1.01	188.5	P	04:52:48.380						T__				md_		
FELD	1.01	188.5	Pg	04:52:48.940	0.4					T__				m__		
SIND	1.02	61.6	P	04:52:47.500						T__				m__	ML	2.4
SIND	1.02	61.6	Pg	04:52:48.370	-0.5					---				m__		
SIND	1.02	61.6	Sg	04:53:03.280	1.2					T__				m__		
ABH	1.10	336.6	Pg	04:52:50.840	0.5					T__				m__		
RUP	1.13	317.9	Pg	04:52:51.620	0.8					T__				m__		
SISB	1.28	157.2	P	04:52:53.100						---				m__	ML	2.5
SISB	1.28	157.2	Pg	04:52:54.590	0.8					T__				m__		
SISB	1.28	157.2	Sg	04:53:11.780	1.4					T__				m__		
TNS	1.36	6.0	Pg	04:52:54.100	-1.1					---				m__	ML	2.4
TNS	1.36	6.0	Sg	04:53:14.280	1.5					---				m__		
BBS	1.49	199.0	P	04:52:54.600						---				m__		
WLF	1.57	301.1	Pn	04:52:59.497	2.3					---	1.8			m_e		
WLF	1.57	301.1	Sg	04:53:18.667	-0.7					---	4.7			m_e		
UBR	1.73	132.9	Pg	04:53:02.720	0.6					---				m__	ML	2.6
UBR	1.73	132.9	Sg	04:53:24.990	0.5					---				m__		
OBER	2.01	135.9	Pg	04:53:08.850	1.3					---				m__	ML	2.8
GRA1	2.12	66.1	Pg	04:53:07.809	-1.7					---	5.2			m_e	ML	2.6
GRA1	2.12	66.1	Sg	04:53:35.317	-1.6					---	4.1			m_e		
FUR	2.14	108.2	Sg	04:53:38.420	0.8					---	3.1			m_e		

UBBA	2.26	29.8	Sg	04:53:40.446	-0.9	---	3.4	m_e
ROTZ	2.74	69.5	Pg	04:53:20.849	-0.5	---	2.5	m_e
ROTZ	2.74	69.5	Sg	04:53:54.566	-2.2	---	1.2	m_e
MOX	2.82	49.7	Pg	04:53:21.445	-1.2	---	3.0	m_e
MOX	2.82	49.7	Sg	04:53:57.593	-1.5	---	3.1	m_e
PLN	3.01	56.1	Sg	04:54:03.647	-1.6	---	1.8	m_e
WET	3.06	83.2	Pg	04:53:27.375	0.1	---	2.5	m_e
RJOB	3.24	108.8	Sg	04:54:13.693	1.1	---	3.0	m_e
GEC2	3.60	88.4	Pg	04:53:36.564	-0.9	---	3.9	m_e
GEC2	3.60	88.4	Sg	04:54:22.237	-1.8	---	1.4	m_e

Event 81127001 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
2008/11/27	10:57:03.60	0.37	0.82	51.6570	7.7468	6.2	4.7	030	1.0f		24	9	296			m i sr	LDG	81127031
2008/11/27	10:57:04.00	0.76	0.31	51.6540	7.7250				0.9	12.0		9	297	0.57	1.51	m i ki	BNS	81127021
2008/11/27	10:57:03.91	0.29	0.61	51.6070	7.7930	3.3	3.3	152	1.0f		14	8	115	0.37	1.85	m i ki	BGR	81127011
2008/11/27	10:57:02.50			51.6310	7.7800				1.0f				225	0.11	0.37	m i ki	BUG	81127001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.0	0.2	2 LDG	81127031
ML	2.8	0.4	7 LDG	81127031
ML	2.4		BNS	81127021
ML	2.6	0.1	3 BGR	81127011
ML	2.4		BUG	81127001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.11	13.7	Pg	10:57:05.500	0.9					T_				m_	ML 2.7
BAHL	0.11	13.7	Sg	10:57:07.500	1.5					T_				m_	
BUG	0.37	239.3	Sg	10:57:16.200	1.9					TA_				m_	ML 2.4
LAUG	0.59	242.1	Pg	10:57:14.130	0.5					---				m_e	
LAUG	0.59	242.1	Sg	10:57:22.940	1.7					---		112.6	0.52	m_e	
IBBN	0.68	358.9	Pg	10:57:17.172	1.9					---	7.8			m_e	ML 2.8
IBBN	0.68	358.9	Sg	10:57:26.752	2.8					---	3.3			m_e	
HOBG	0.71	203.5	Pg	10:57:17.570	1.8					---				m_e	
RODG	1.11	244.7	Pg	10:57:24.750	1.3					---				m_e	
STB	1.19	210.0	Pg	10:57:26.360	1.4					---				m_e	
STB	1.19	210.0	Sg	10:57:42.750	2.3					---		86.4	0.48	m_e	
KOE	1.21	181.5	Pg	10:57:26.150	0.9					---				m_e	
KLL	1.35	223.7	Pg	10:57:27.970	0.1					---				m_e	
GTTG	1.36	92.8	Pg	10:57:29.378	1.2					---	3.9			m_e	
DREG	1.37	225.7	Pg	10:57:28.532	0.2					---	8.0			m_e	ML 2.5
DREG	1.37	225.7	Sg	10:57:48.066	2.0					---	6.0			m_e	
BGG	1.45	191.3	Pg	10:57:30.110	0.2					---				m_e	
TNS	1.47	163.1	Pg	10:57:30.138	-0.1					---	10.5			m_e	ML 2.5
TNS	1.47	163.1	Sg	10:57:50.369	1.2					---				m_e	
HILG	1.51	207.8	Pg	10:57:30.860	-0.1					---				m_e	
UBBA	1.61	119.4	Pg	10:57:34.216	1.4					---	7.8			m_e	
UBBA	1.61	119.4	Sg	10:57:55.209	1.5					---	3.7			m_e	
CLZ	1.62	81.5	Pg	10:57:33.546	0.5					---	14.9			m_e	
CLZ	1.62	81.5	Sg	10:57:55.741	1.8					---	3.1			m_e	

ASSE 1.85 73.2 Sg 10:58:02.946 1.5 2.1 m_e

Event 81128002 Reutlingen

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/28	07:51:44.60	0.06	0.64	48.4494	9.0255	1.4	1.0	151	10.0	0.0	31	12	052			m i ke	LDG	81128022
2008/11/28	07:51:44.61	0.33	0.81	48.4880	9.0640	3.3	3.3	126	10.0f		15	12	097	0.30	3.53	m i ke	BGR	81128012
2008/11/28	07:51:44.54	0.08	0.16	48.4450	9.0360	0.8	0.7	084	10.0	2.0	30	14	064	0.08	1.82	m i ke	LED	81128002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	2.7	0.1	2 LDG	81128022
ML	2.9	0.3	13 LDG	81128022
ML	2.3	0.4	7 BGR	81128012
ML	2.4	0.2	13 LED	81128002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
TUBL	0.08	21.8	P*	07:51:47.160						T__				mci ML	2.7
BUCH	0.21	88.6	P*	07:51:49.040						T__				mci ML	2.7
BUCH	0.21	88.6	S*	07:51:52.340						T__				m_i	
LBG	0.27	324.1	P*	07:51:50.130						T__				mdi ML	2.4
LBG	0.27	324.1	S*	07:51:53.940						T__				m_i	
STU	0.34	17.6	P*	07:51:51.230						T__				mci ML	2.1
STU	0.34	17.6	S*	07:51:56.080						T__				m_i	
GUT	0.38	171.9	P*	07:51:52.000						T__				mdi ML	2.2
GUT	0.38	171.9	S*	07:51:57.100						T__				m_i	
SPAK	0.38	206.0	P*	07:51:52.180						T__				mci	
BFO	0.48	256.5	P*	07:51:53.960						T__				mci ML	2.3
BFO	0.48	256.5	S*	07:52:00.350						T__				m__	
BFO	0.48	256.5	SmS	07:52:03.500	-2.0					T__				m__	
HDH	0.79	79.4	P*	07:51:59.390						T__				m__ ML	2.5
HDH	0.79	79.4	PmP	07:51:59.950	-1.7					T__				md__	
HDH	0.79	79.4	S*	07:52:10.130						T__				m__	
HDH	0.79	79.4	SmS	07:52:11.620	-1.7					T__				m__	
KIZ	0.89	237.1	Pn	07:52:01.090	-1.4					T__				mci ML	2.3
KIZ	0.89	237.1	Pg	07:52:01.790	0.4					T__				m__	
KIZ	0.89	237.1	Sn	07:52:12.690	-2.4					T__				m__	
FELD	0.89	230.8	Pn	07:52:01.280	-1.3					T__				mci	
SIND	0.98	22.3	Pg	07:52:02.980	-0.1					T__				m__ ML	2.7
SIND	0.98	22.3	Sn	07:52:14.700	-2.4					T__				m__	
UBR	1.05	136.5	Pn	07:52:05.090	0.5					T__				m__ ML	2.4
UBR	1.05	136.5	S	07:52:18.930						T__				m__	
TOD	1.17	352.6	Pg	07:52:07.080	0.4					T__				mci	
ECH	1.27	260.3	Pg	07:52:08.400	-0.1					T__				m__ ML	2.1
ECH	1.27	260.3	Sn	07:52:21.600	-2.4					T__				m__	
ECH	1.27	260.3	Sg	07:52:25.000	0.0					T__				m__	
DAVA	1.29	153.6	Pg	07:52:10.951	2.1					---				m_e ML	2.2
DAVA	1.29	153.6	Sg	07:52:26.788	1.2					---				m_e	
OBER	1.34	140.5	Pg	07:52:10.740	0.9					---				m__ ML	2.7
BBS	1.42	226.8	Pg	07:52:11.550	0.3					---				m__	
FUR	1.52	99.9	Sg	07:52:33.279	0.5					---				m_e ML	2.9
TNS	1.82	348.0	Pg	07:52:15.280	-3.6					---				m__ ML	2.5

TNS	1.82	348.0	Sg	07:52:42.350	-0.0	---	m_												
GRA1	1.90	48.1	Pg	07:52:20.168	-0.2	---	m_e	ML	2.6										
GRA1	1.90	48.1	Sg	07:52:43.664	-1.3	---	m_e												
WTTA	2.11	123.1	Sg	07:52:51.064	-0.5	---	m_e												
ROTZ	2.46	56.3	Sg	07:53:00.151	-2.6	---	m_e	ML	2.5										
MOX	2.76	36.3	Sg	07:53:10.665	-1.7	---	m_e												
TANN	2.97	47.2	Sg	07:53:17.026	-2.0	---	m_e												
GEC2	3.11	80.9	Sg	07:53:23.387	0.1	---	m_e												
MOA	3.54	97.7	Sg	07:53:37.018	0.0	---	m_e												

Event 81129002 Duisburg, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/11/29	02:17:10.50	0.16	0.80	51.6346	6.9663	2.7	2.4	026	1.0f		88	32	257			m i sr	LDG	81129032
2008/11/29	02:17:12.10	1.17	0.41	51.5760	6.8090				1.0f			11	288	0.24	1.41	m i ki	BNS	81129022
2008/11/29	02:17:11.63	0.72	0.57	51.6670	6.9030	6.7	4.4	142	1.0f		16	8	280	0.32	3.46	m i ki	BGR	81129012
2008/11/29	02:17:11.80			51.5520	6.9070				1.0f				215	0.21	0.25	m i ki	BUG	81129002

Magnitude	Err	Nsta	Author	OrigID
MD	3.7	0.4	2 LDG	81129032
ML	3.3	0.4	34 LDG	81129032
ML	2.8		BNS	81129022
ML	3.3	0.3	8 BGR	81129012
ML	2.5		BUG	81129002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
LAUG	0.20	173.4	Pg	02:17:16.840	1.2					---				m_e	
LAUG	0.20	173.4	Sg	02:17:20.660	2.4					---		764.7	0.74	m_e	
BRHE	0.21	260.2	Pg	02:17:15.100	-0.7					T_				m_	ML 1.6
BRHE	0.21	260.2	Sg	02:17:18.800	0.3					T_				m_	
BUG	0.25	116.1	Pg	02:17:17.600	1.1					TA_				mde	ML 2.5
BUG	0.25	116.1	Sg	02:17:21.800	2.0					TA_				m_	
BD03	0.60	201.5	Pg	02:17:24.080	0.9					---				m_e	
BNS	0.61	163.9	Pg	02:17:24.470	1.1					---				m_e	
BNS	0.61	163.9	Sg	02:17:34.150	2.9					---	511.6	0.38		m_e	
HOBG	0.63	154.7	Pg	02:17:24.960	1.3					---				m_e	
HOBG	0.63	154.7	Sg	02:17:34.060	2.3					---	633.2	0.33		m_e	
BA05	0.65	193.6	Pg	02:17:24.990	0.9					---				m_e	
STB	0.96	182.5	Pg	02:17:30.520	0.6					---				m_e	
STB	0.96	182.5	Sg	02:17:44.050	1.8					---				m_e	
KLL	0.98	202.7	Pg	02:17:30.620	0.4					---				m_e	
KLL	0.98	202.7	Sg	02:17:44.610	1.7					---	218.2	0.41		m_e	
DREG	0.98	205.7	Pg	02:17:30.710	0.4					---				m_e	
DREG	0.98	205.7	Sg	02:17:44.700	1.6					---	350.8	0.34		m_e	
KOE	1.24	154.9	Pg	02:17:35.560	0.4					---				m_e	
KOE	1.24	154.9	Sg	02:17:53.480	2.3					---	259.4	0.47		m_e	
HILG	1.27	186.6	Pg	02:17:35.930	0.2					---				m_e	
HILG	1.27	186.6	Sg	02:17:53.740	1.6					---				m_e	
BGG	1.37	168.4	Pg	02:17:37.460	-0.2					---				m_e	
BGG	1.37	168.4	Sg	02:17:57.160	1.7					---	104.3	0.18		m_e	
GTTG	1.90	89.0	Pg	02:17:47.972	0.3					---				m_e	ML 3.3

GTTG	1.90	89.0	Sg	02:18:12.249	0.0	---	m_e	
CLZ	2.17	81.0	Pn	02:17:47.112	-1.0	---	m_e ML	3.0
CLZ	2.17	81.0	Pg	02:17:51.947	-0.7	---	m_e	
CLZ	2.17	81.0	Sg	02:18:21.066	0.4	---	m_e	
NEUB	3.06	94.5	Sg	02:18:49.608	0.7	---	m_e ML	3.6
MOX	3.09	105.2	Pn	02:18:01.718	1.0	---	m_e ML	3.2
MOX	3.09	105.2	Sg	02:18:50.015	-0.0	---	m_e	
STU	3.14	151.3	Pn	02:18:02.736	1.4	---	m_e ML	3.5
STU	3.14	151.3	Sn	02:18:39.676	2.7	---	m_e	
GRA1	3.31	122.5	Pn	02:18:04.610	1.0	---	m_e ML	3.5
GRA1	3.31	122.5	Sg	02:18:59.162	2.2	---	m_e	
BFO	3.35	163.6	Pn	02:18:04.576	0.4	---	m_e ML	3.2
BFO	3.35	163.6	Sn	02:18:43.686	1.8	---	m_e	

DATA_TYPE ARRIVAL: REVIEWED IMS1.0

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