

DATA\_TYPE BULLETIN IMS1.0

BGR Bulletin for Germany and adjacent areas

Event 81201002 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/01	16:38:46.30	0.10	0.67	51.5074	6.5321	2.2	1.5	126	1.0f		51	16	138			m i sr	LDG	81201032
2008/12/01	16:38:46.80	1.11	0.31	51.4840	6.5590				1.0f			10	285	0.27	1.37	m i ki	BNS	81201022
2008/12/01	16:38:46.72	0.63	0.69	51.4800	6.5460	11.1	4.4	123	1.0f		9	5	208	0.45	1.83	m i ki	BGR	81201012
2008/12/01	16:38:45.90			51.4830	6.5950				1.0f				239	0.04	0.42	m i ki	BUG	81201002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.3	0.3	2 LDG	81201032
ML	3.3	0.3	17 LDG	81201032
ML	2.6		BNS	81201022
ML	2.9	0.1	3 BGR	81201012
ML	2.6		BUG	81201002

Effects                    Loctyp Location                    Intensity Scale Author  
 \_F\_                            Summar                            4.0                    EMS                    BNS  
 (Felt in Kamp Lint-Fort (IV) and Moers (II-IV).)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.04	335.4	Pg	16:38:46.500	-0.1					T_				m_	ML 2.6
BRHE	0.04	335.4	Sg	16:38:47.200	0.1					T_				m_	
LAUG	0.25	121.1	Pg	16:38:51.790	1.1									mdi	
BUG	0.42	95.5	Pg	16:38:54.900	1.0					TA_				m_e	ML 2.6
BUG	0.42	95.5	Sg	16:39:01.400	2.1					TA_				m_	
BD07	0.54	174.7	Pg	16:38:57.700	1.6									m_e	
BNS	0.63	144.8	Pg	16:38:59.460	1.6									mdi	
BNS	0.63	144.8	Sg	16:39:08.200	2.2							331.9	0.46	m_e	
HOBG	0.68	136.9	Pg	16:39:00.160	1.4									m_e	
DREG	0.85	195.6	Pg	16:39:02.797	0.9									m_e	ML 3.0
DREG	0.85	195.6	Sg	16:39:14.885	2.0									m_e	
KLL	0.86	192.1	Pg	16:39:02.810	0.8									m_e	
KLL	0.86	192.1	Sg	16:39:14.900	1.8							270.5	0.61	m_e	
STB	0.90	170.1	Pg	16:39:04.110	1.2									m_e	
STB	0.90	170.1	Sg	16:39:16.280	1.7							267.0	0.21	m_e	
IBBN	1.09	40.6	Pg	16:39:07.424	0.9									m_e	ML 2.9
IBBN	1.09	40.6	Sg	16:39:22.683	2.1									m_e	
HILG	1.19	177.4	Pg	16:39:09.280	0.9									m_e	
HILG	1.19	177.4	Sg	16:39:25.460	1.7							269.5	0.42	m_e	
KOE	1.28	145.5	Pg	16:39:10.730	0.8									mde	
BGG	1.36	159.6	Pg	16:39:11.480	-0.1									m_e	
BGG	1.36	159.6	Sg	16:39:30.490	1.4							85.8	0.61	m_e	
TNS	1.72	136.4	Pn	16:39:16.716	0.6									m_e	
WLF	1.84	189.0	Pg	16:39:20.984	0.4									m_e	
WLF	1.84	189.0	Sg	16:39:43.911	-0.4									m_e	

Event 81202001 Central Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
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2008/12/02 03:15:01.59 0.88 0.71 43.6360 13.5810 12.2 10.0 046 10.0f 17 10 306 2.95 7.46 m i ke BGR 81202021

Magnitude Err Nsta Author OrigID  
ML 3.6 0.1 2 BGR 81202021

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OBKA	2.95	13.0	Pn	03:15:48.886	1.4					T__				m_e ML	3.7
KBA	3.45	357.3	Pn	03:15:55.322	1.1					T__				m_e	
KBA	3.45	357.3	Sn	03:16:35.456	3.2					T__				m_e	
ARSA	3.86	20.0	Pn	03:16:01.054	1.2					T__				m_e	
WTTA	3.88	340.1	Pn	03:16:01.407	1.4					T__				m_e ML	3.6
WTTA	3.88	340.1	Sn	03:16:47.487	5.2					T__				m_e	
RJOB	4.14	352.7	Pn	03:16:04.991	1.4					T__				m_e	
RJOB	4.14	352.7	Sn	03:16:52.650	4.2					T__				m_e	
MOA	4.24	6.2	Pn	03:16:06.525	1.6					T__				m_e	
MOA	4.24	6.2	Sn	03:16:54.682	3.8					T__				m_e	
DAVA	4.48	325.9	Pn	03:16:09.455	1.3					T__				m_e	
DAVA	4.48	325.9	Sn	03:16:59.687	3.2					T__				m_e	
GEC2	5.21	0.9	Pn	03:16:18.707	0.6					T__				m_e	
WET	5.53	355.2	Pn	03:16:22.412	-0.0					T__				m_e	
WET	5.53	355.2	Sn	03:17:23.340	2.2					T__				m_e	
TNS	7.46	333.8	Pn	03:16:49.099	0.5					T__				m_e	
TNS	7.46	333.8	Sn	03:18:10.699	4.2					T__				m_e	

Event 81203003 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
2008/12/03	10:15:40.20	0.91	0.41	51.6560	7.7760				1.0f			4	318	0.73	1.36	m i ki	BNS	81203023
2008/12/03	10:15:41.57	0.28	0.37	51.5900	7.7540	3.3	2.2	146	1.0f		14	7	082	0.34	1.64	m i ki	BGR	81203013
2008/12/03	10:15:39.60			51.6590	7.7480				1.0f							m i ki	BUG	81203003
#PRIME)																		

Magnitude Err Nsta Author OrigID  
ML 1.9 BNS 81203023  
ML 2.0 0.1 4 BGR 81203013  
ML 1.7 BUG 81203003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BUG	0.37	233.9	Pg	10:15:47.500	0.9					TA_				mde ML	1.7
BUG	0.37	233.9	Sg	10:15:53.300	2.0					TA_				m_	
IBBN	0.65	0.6	Pg	10:15:55.649	3.8					---				m_e ML	2.1
IBBN	0.65	0.6	Sg	10:16:04.115	3.9					---				m_e	
WTSB	0.66	298.0	Pg	10:15:54.546	2.5					---				m_e	
WTSB	0.66	298.0	Sg	10:16:03.746	3.1					---				m_e	
HOBG	0.72	201.1	Pg	10:15:53.440	0.2					---				m_e	
STB	1.21	208.5	Pg	10:16:02.980	0.6					---				m_e	
STB	1.21	208.5	Sg	10:16:19.570	1.6					---		20.0	0.31	m_e	
KOE	1.23	180.5	Pg	10:16:03.320	0.5					---				m_e	
KLL	1.36	222.2	Pg	10:16:04.800	-0.3					---				m_e	
HGN	1.45	232.5	Pg	10:16:07.802	0.9					---				m_e	
HGN	1.45	232.5	Sg	10:16:26.352	0.8					---				m_e	
TNS	1.50	162.7	Pg	10:16:08.400	0.5					---				m_e ML	2.0

TNS	1.50	162.7	Sg	10:16:27.112	-0.2														m_e
MEM	1.52	226.8	Sg	10:16:28.811	1.1														m_e
CLZ	1.63	82.6	Pn	10:16:11.096	2.4														m_e ML 2.1
CLZ	1.63	82.6	Pg	10:16:13.127	2.7														m_e
CLZ	1.63	82.6	Sg	10:16:33.556	2.0														m_e

Event 81204002 E Salzkammergut/A, Totes Gebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/04	04:09:21.64	0.09	0.32	47.6414	13.7178	0.8	0.6	171	4.6	2.4	36	13	153			m i uk	ZAMG	81204012
2008/12/04	04:09:23.44	0.22	1.25	47.6660	13.7460	3.3	3.3	084	10.0f		28	20	051	0.39	3.29	m i ke	BGR	81204002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.2	0.3	14 ZAMG	81204012
ML	2.0	0.3	10 BGR	81204002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
MOA	0.39	62.1	Pg	04:09:29.787	-1.3					T__	7.5			m_e ML	1.7
RJOB	0.64	276.7	Pg	04:09:36.146	0.5					T__	1.9			m_e ML	1.8
KBA	0.65	205.0	Pg	04:09:33.815	-1.9					T__	4.4			m_e ML	1.8
KBA	0.65	205.0	Sg	04:09:43.228	-1.0					T__				m_e	
GEC2	1.18	358.6	Pn	04:09:45.450	0.1					T__	2.0			m_e ML	2.0
GEC2	1.18	358.6	Pg	04:09:46.201	0.5					T__	22.3			m_e	
GEC2	1.18	358.6	Sg	04:10:02.609	1.6					T__				m_e	
ARSA	1.27	108.4	Pn	04:09:46.189	-0.4					T__	1.0			m_e ML	1.9
ARSA	1.27	108.4	Sg	04:10:07.813	3.9					T__				m_e	
OBKA	1.28	154.4	Pg	04:09:47.665	0.0					T__	2.5			m_e ML	2.0
OBKA	1.28	154.4	Sg	04:10:04.299	0.1					T__				m_e	
KHC	1.47	355.7	Sg	04:10:10.733	0.5					T__				m_e ML	2.0
WTTA	1.48	255.0	Pg	04:09:51.348	-0.1					T__	6.2			m_e ML	2.3
WTTA	1.48	255.0	Sg	04:10:11.085	0.5					T__				m_e	
WET	1.59	339.0	Pg	04:09:52.418	-1.0					T__	10.1			m_e ML	2.2
WET	1.59	339.0	Sg	04:10:14.000	0.1					T__				m_e	
FUR	1.73	287.6	Sg	04:10:19.116	0.7					T__				m_e ML	2.6
ROTZ	2.33	334.8	Sg	04:10:37.182	-0.4					T__				m_e	
GRA1	2.62	321.5	Pg	04:10:13.596	0.7					T__	2.2			m_e	
DAVA	2.64	263.2	Pg	04:10:13.671	0.4					T__	2.2			m_e	
DAVA	2.64	263.2	Sg	04:10:46.782	-0.6					T__				m_e	
WERN	2.77	341.6	Sg	04:10:49.168	-2.4					T__				m_e	
TANN	2.87	343.5	Sg	04:10:54.216	-0.6					T__				m_e	
WERD	2.94	341.8	Sg	04:10:56.131	-0.7					T__				m_e	
PLN	3.00	340.3	Sg	04:10:59.221	0.3					T__				m_e	
DPC	3.17	31.2	Sg	04:11:03.913	-0.3					T__				m_e	
MORC	3.27	48.5	Sg	04:11:05.117	-2.4					T__				m_e	
MOX	3.29	335.7	Sg	04:11:08.688	0.7					T__				m_e	

Event 81204004 Czech and Slovak Republics

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
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2008/12/04 06:54:30.52 0.39 1.38 49.8580 18.4830 10.0 4.4 170 1.0f 29 18 188 0.22 5.49 m i ki BGR 81204004

Magnitude Err Nsta Author OrigID  
ML 3.6 0.5 18 BGR 81204004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OKC	0.22	264.7	Pg	06:54:36.564	1.9					T__	88.1			m_e ML	2.7
OKC	0.22	264.7	Sg	06:54:40.467	3.0					T__				m_e	
MORC	0.61	262.7	Pg	06:54:43.244	1.2					T__	78.8			m_e ML	2.9
MORC	0.61	262.7	Sg	06:54:52.562	2.6					T__				m_e	
OJC	0.92	66.3	Pg	06:54:47.559	-0.3					T__	20.8			m_e ML	2.9
OJC	0.92	66.3	Sg	06:55:00.709	1.0					T__				m_e	
DPC	1.47	290.4	Pg	06:54:58.528	0.3					T__	41.4			m_e ML	3.3
DPC	1.47	290.4	Sg	06:55:19.580	2.3					T__				m_e	
KSP	1.71	306.0	Pn	06:54:59.235	-1.4					T__	1.1			m_e ML	3.0
KSP	1.71	306.0	Pg	06:55:01.687	-1.1					T__	21.3			m_e	
KSP	1.71	306.0	Sg	06:55:26.249	1.4					T__				m_e	
BRG	3.07	291.1	Pg	06:55:27.499	-0.9					T__	7.6			m_e ML	3.5
BRG	3.07	291.1	Sg	06:56:08.755	0.8					T__				m_e	
KHC	3.27	259.0	Pn	06:55:24.040	2.3					T__	1.8			m_e ML	3.7
KHC	3.27	259.0	Sg	06:56:12.279	-2.0					T__				m_e	
GEC2	3.27	253.8	Pg	06:55:31.893	-0.3					T__	5.1			m_e ML	3.9
GEC2	3.27	253.8	Sg	06:56:13.182	-1.4					T__				m_e	
FBE	3.44	290.0	Pg	06:55:34.194	-1.1					T__	2.2			m_e ML	3.0
FBE	3.44	290.0	Sg	06:56:20.450	0.7					T__				m_e	
WET	3.71	261.0	Sg	06:56:27.247	-1.1					T__				m_e ML	4.0
CLL	3.77	294.7	Pg	06:55:40.303	-1.2					T__	2.3			m_e ML	3.9
CLL	3.77	294.7	Sg	06:56:29.630	-0.6					T__				m_e	
NKC	3.89	277.8	Sg	06:56:33.489	-0.7					T__				m_e ML	4.0
TANN	3.90	280.5	Sg	06:56:33.974	-0.4					T__				m_e ML	3.9
WERN	3.94	278.6	Sg	06:56:34.449	-1.3					T__				m_e ML	3.8
GUNZ	3.98	279.7	Pg	06:55:45.411	-0.0					T__	4.1			m_e ML	3.8
WERD	4.00	280.8	Pg	06:55:44.775	-1.1					T__	2.9			m_e ML	3.7
GRA1	4.69	270.7	Sg	06:56:58.654	-0.9					T__				m_e ML	4.2
CLZ	5.49	294.3	Sg	06:57:25.385	0.5					T__				m_e ML	3.8

Event 81206002 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
2008/12/06	02:48:26.60	0.11	0.21	51.7289	7.6823	1.8	1.7	080	1.0f		38	14	304			m i sr	LDG	81206032
2008/12/06	02:48:27.50	0.79	0.41	51.7120	7.6610				1.0f			9	307	0.57	1.55	m i ki	BNS	81206022
2008/12/06	02:48:28.66	0.33	0.57	51.6150	7.8130	4.4	3.3	124	1.0f		10	5	114	0.38	2.22	m i ki	BGR	81206012
2008/12/06	02:48:27.00			51.6430	7.7720				1.0f				219	0.10	0.37	m i ki	BUG	81206002

(#PRIME)

Magnitude Err Nsta Author OrigID  
ML 2.4 0.3 15 LDG 81206032  
ML 2.1 BNS 81206022  
ML 2.3 0.1 4 BGR 81206012  
ML 2.3 BUG 81206002

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude

BAHL	0.10	18.1	Pg	02:48:30.000	1.1	T__	m__	ML	2.0
BAHL	0.10	18.1	Sg	02:48:32.000	1.8	T__	m__		
BUG	0.37	237.3	Pg	02:48:35.000	1.0	TA__	mde	ML	2.3
BUG	0.37	237.3	Sg	02:48:40.800	2.0	TA__	m__		
LAUG	0.59	240.8	Pg	02:48:38.110	-0.1	---	m_e		
IBBN	0.66	359.3	Pg	02:48:41.647	2.1	---	m_e	ML	2.1
IBBN	0.66	359.3	Sg	02:48:51.580	3.5	---	m_e		
HOBG	0.71	202.7	Pg	02:48:41.460	1.0	---	m_e		
BNS	0.77	209.0	Pg	02:48:42.540	0.9	---	m_e		
STB	1.20	209.5	Pg	02:48:50.300	0.7	---	m_e		
STB	1.20	209.5	Sg	02:49:07.600	2.4	---	m_e		
KOE	1.22	181.2	Pg	02:48:50.790	0.8	---	29.2	0.30	m_e
KLL	1.35	223.2	Pg	02:48:52.360	-0.1	---	m_e		
DREG	1.38	225.2	Pg	02:48:52.720	-0.2	---	m_e		
BGG	1.46	191.0	Pg	02:48:54.110	-0.5	---	m_e		
TNS	1.48	163.1	Pg	02:48:55.483	0.5	---	m_e	ML	2.3
TNS	1.48	163.1	Sg	02:49:15.766	1.7	---	m_e		
HILG	1.52	207.4	Pg	02:48:55.140	-0.4	---	m_e		
CLZ	1.62	81.9	Pn	02:48:56.790	0.8	---	m_e	ML	2.3
CLZ	1.62	81.9	Pg	02:48:58.557	1.0	---	m_e		
CLZ	1.62	81.9	Sg	02:49:19.778	1.2	---	m_e		
WLF	2.23	208.1	Sg	02:49:39.306	1.5	---	m_e		

Event 81206007 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/06	16:54:14.18	0.33	0.82	51.4500	16.1090	4.4	2.2	016	1.0f		38	15	198	0.62	3.58	m i ki	BGR	81206017

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.4	15 BGR	81206017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.62	169.1	Pg	16:54:26.254	0.4					T__				m_e	ML 2.5
KSP	0.62	169.1	Sg	16:54:34.985	1.2					T__				m_e	
DPC	1.11	172.9	Pg	16:54:35.115	0.1					T__				m_e	ML 2.8
DPC	1.11	172.9	Sg	16:54:50.657	1.3					T__				m_e	
BRG	1.48	247.8	Pn	16:54:40.581	-0.6					T__				m_e	ML 3.2
BRG	1.48	247.8	Pg	16:54:42.071	0.1					T__				m_e	
BRG	1.48	247.8	Sg	16:55:02.194	1.1					T__				m_e	
FBE	1.81	254.0	Pn	16:54:45.125	-0.5					T__				m_e	ML 2.3
FBE	1.81	254.0	Pg	16:54:47.872	-0.3					T__				m_e	
FBE	1.81	254.0	Sg	16:55:11.948	0.4					T__				m_e	
MORC	1.90	150.9	Pn	16:54:46.933	-0.0					T__				m_e	ML 2.8
MORC	1.90	150.9	Sg	16:55:14.133	-0.5					T__				m_e	
CLL	1.94	267.0	Pn	16:54:46.826	-0.7					T__				m_e	ML 3.1
CLL	1.94	267.0	Pg	16:54:49.415	-1.4					T__				m_e	
CLL	1.94	267.0	Sg	16:55:15.428	-0.5					T__				m_e	
OKC	2.07	140.5	Pn	16:54:48.524	-0.6					T__				m_e	ML 3.1
OKC	2.07	140.5	Pg	16:54:52.661	-0.5					T__				m_e	
OKC	2.07	140.5	Sg	16:55:19.603	-0.2					T__				m_e	
WERD	2.60	248.8	Pn	16:54:56.718	0.4					T__				m_e	ML 3.3
WERD	2.60	248.8	Pg	16:55:03.107	-0.0					T__				m_e	

WERD	2.60	248.8	Sg	16:55:36.191	-0.5	T__	m_e		
OJC	2.63	116.4	Pn	16:54:55.975	-0.9	T__	m_e ML	3.3	
OJC	2.63	116.4	Pg	16:55:03.152	-0.7	T__	m_e		
OJC	2.63	116.4	Sg	16:55:39.093	1.2	T__	m_e		
MOX	2.94	255.8	Pn	16:55:01.100	0.2	T__	m_e ML	3.5	
MOX	2.94	255.8	Pg	16:55:09.030	-0.5	T__	m_e		
MOX	2.94	255.8	Sg	16:55:48.953	1.5	T__	m_e		
ROTZ	2.99	237.3	Pn	16:55:02.394	0.7	T__	m_e ML	3.2	
ROTZ	2.99	237.3	Sg	16:55:49.304	0.0	T__	m_e		
GEC2	3.03	211.6	Pn	16:55:03.165	1.0	T__	m_e ML	3.4	
GEC2	3.03	211.6	Pg	16:55:10.856	-0.4	T__	m_e		
GEC2	3.03	211.6	Sg	16:55:48.639	-1.7	T__	m_e		
WET	3.09	223.1	Pn	16:55:03.689	0.6	T__	m_e ML	3.3	
WET	3.09	223.1	Sg	16:55:51.278	-1.2	T__	m_e		
GRA1	3.57	242.4	Pn	16:55:10.565	1.1	T__	m_e ML	3.8	
GRA1	3.57	242.4	Sg	16:56:08.726	1.3	T__	m_e		
CLZ	3.58	278.5	Pn	16:55:10.712	1.0	T__	m_e ML	3.4	
CLZ	3.58	278.5	Sg	16:56:08.817	0.9	T__	m_e		

Event 81207002 Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/07	02:47:43.86	0.41	1.15	47.7990	16.0730	5.6	3.3	090	10.0f		40	17	238	0.66	6.80	m i ke	BGR	81207012
2008/12/07	02:47:41.24	0.21	0.94	47.7282	16.1279	2.1	1.4	137	9.9	1.8	30	7	257			m i fe	ZAMG	81207002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.9	0.3	15 BGR	81207012
ML	3.8	0.2	9 ZAMG	81207002

Effects                    Loctyp Location                    Intensity Scale Author  
 \_FD\_                    Summar                    5.0                    EMS                    ZAMG  
 (Slight damage of buildings (cracks in plastering). Felt in Vienna, Graz and Linz.)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	0.63	220.8	Pg	02:47:54.369	1.2									m_e ML	3.6
ARSA	0.63	220.8	Sg	02:48:04.134	2.7									m_e	
MOA	1.26	276.2	Pg	02:48:05.277	0.3									m_e ML	3.5
MOA	1.26	276.2	Sg	02:48:23.007	1.7									m_e	
OBKA	1.62	222.0	Pn	02:48:11.518	2.3									m_e ML	3.7
OBKA	1.62	222.0	Pg	02:48:14.204	2.3									m_e	
OBKA	1.62	222.0	Sg	02:48:34.942	2.0									m_e	
GEC2	1.96	305.6	Pn	02:48:15.428	1.7									m_e ML	3.4
GEC2	1.96	305.6	Sg	02:48:43.142	-0.5									m_e	
KBA	1.99	252.0	Pn	02:48:17.068	2.9									m_e ML	3.6
KBA	1.99	252.0	Pg	02:48:20.103	1.3									m_e	
KBA	1.99	252.0	Sg	02:48:47.391	2.8									m_e	
BGLD	2.10	269.1	Pn	02:48:17.900	2.3									mci ML	3.7
WET	2.58	304.5	Pn	02:48:24.089	2.0									m_e ML	3.7
WET	2.58	304.5	Pg	02:48:30.598	0.7									m_e	
WET	2.58	304.5	Sg	02:49:02.404	-0.8									m_e	
SCE	3.07	258.6	Pn	02:48:32.700	3.9									mdi ML	3.5

WTTA	3.07	263.0	Pn	02:48:31.733	3.0	---	m_e	ML	3.8
WTTA	3.07	263.0	Pg	02:48:39.843	0.7	---	m_e		
WTTA	3.07	263.0	Sg	02:49:20.177	1.4	---	m_e		
FUR	3.28	279.4	Pn	02:48:34.900	3.3	---	m_e	ML	4.2
FUR	3.28	279.4	Pg	02:48:44.228	1.2	---	m_e		
FUR	3.28	279.4	Sg	02:49:27.206	1.8	---	m_e		
BRG	3.45	336.4	Pn	02:48:35.872	1.9	---	m_e	ML	4.1
BRG	3.45	336.4	Sg	02:49:28.653	-2.3	---	m_e		
GRA1	3.79	303.1	Pn	02:48:41.502	3.0	---	m_e	ML	4.3
GRA1	3.79	303.1	Pg	02:48:53.233	0.6	---	m_e		
GRA1	3.79	303.1	Sg	02:49:40.927	-0.6	---	m_e		
CLL	4.11	331.6	Pn	02:48:45.506	2.6	---	m_e	ML	4.5
CLL	4.11	331.6	Sg	02:49:48.881	-3.1	---	m_e		
MOX	4.15	316.4	Pn	02:48:45.787	2.4	---	m_e	ML	4.2
MOX	4.15	316.4	Sg	02:49:50.018	-3.0	---	m_e		
DAVA	4.24	266.3	Pn	02:48:47.406	2.7	---	m_e	ML	4.1
DAVA	4.24	266.3	Sg	02:49:57.489	1.5	---	m_e		
STU	4.73	285.3	Pn	02:48:53.890	2.6	---	m_e	ML	4.5
STU	4.73	285.3	Sn	02:49:44.822	2.7	---	m_e		
STU	4.73	285.3	Sg	02:50:12.699	1.1	---	m_e		
BFO	5.25	279.5	Pn	02:49:00.674	2.4	---	m_e	ML	4.0
BFO	5.25	279.5	Sn	02:49:56.379	2.2	---	m_e		
BFO	5.25	279.5	Sg	02:50:30.757	2.8	---	m_e		
TNS	5.62	299.2	Pn	02:49:06.627	3.3	---	m_e		
WLF	6.86	290.1	Pn	02:49:23.157	3.0	---	m_e		

Event 81208002 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
2008/12/08	01:57:39.80	0.83	0.41	51.6900	7.7040				1.0f			8	298	0.58	1.50	m i k i	BNS	81208022
2008/12/08	01:57:40.67	0.26	0.55	51.5960	7.7780	3.3	2.2	152	1.0f		17	8	083	0.35	1.63	m i k i	BGR	81208012
2008/12/08	01:57:39.20			51.6380	7.7700				1.0f							m i k i	BUG	81208002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.2		BNS	81208022
ML	2.3	0.1	4 BGR	81208012
ML	2.2		BUG	81208002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BUG	0.37	237.8	Sg	01:57:52.900	2.0					TA_				m__	ML	2.2
LAUG	0.59	241.2	Pg	01:57:50.410	0.1					---				m_e		
IBBN	0.67	359.4	Pg	01:57:54.247	2.5					---				m_e	ML	2.3
IBBN	0.67	359.4	Sg	01:58:03.801	3.4					---				m_e		
WTSB	0.68	299.0	Pg	01:57:53.587	1.5					---				m_e		
WTSB	0.68	299.0	Sg	01:58:03.404	2.5					---				m_e		
HOBG	0.71	202.8	Pg	01:57:53.550	1.0					---				m_e		
RODG	1.11	244.2	Pg	01:58:00.780	0.7					---				m_e		
OPLO	1.18	269.3	Pg	01:58:03.311	1.9					---				m_e		
STB	1.20	209.6	Pg	01:58:02.350	0.6					---				m_e		
STB	1.20	209.6	Sg	01:58:19.640	2.4					---		44.6	0.13	m_e		
KOE	1.21	181.2	Pg	01:58:02.880	0.8					---				m_e		

KLL	1.35	223.3	Pg	01:58:04.450	-0.2	---	m_e		
DREG	1.37	225.3	Pg	01:58:04.970	-0.1	---	m_e		
HGN	1.45	233.5	Pg	01:58:06.430	-0.0	---	m_e		
HGN	1.45	233.5	Sg	01:58:26.315	1.2	---	m_e		
BGG	1.46	191.0	Pg	01:58:06.440	-0.2	---	m_e		
TNS	1.48	163.0	Pn	01:58:06.918	0.7	---	m_e ML	2.2	
TNS	1.48	163.0	Pg	01:58:08.134	1.1	---	m_e		
TNS	1.48	163.0	Sg	01:58:26.716	0.5	---	m_e		
MEM	1.51	227.8	Pn	01:58:07.375	0.7	---	m_e		
MEM	1.51	227.8	Sg	01:58:27.936	0.7	---	m_e		
CLZ	1.62	81.8	Pn	01:58:09.015	0.8	---	m_e ML	2.3	
CLZ	1.62	81.8	Pg	01:58:10.749	0.9	---	m_e		
CLZ	1.62	81.8	Sg	01:58:33.250	2.4	---	m_e		

Event 81208004 Saulgau, SW of Ulm

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/08	02:01:00.30	0.11	0.28	47.9876	9.3377	1.9	1.4	080	6.0f		32	12	256			m i ke	LDG	81208024
2008/12/08	02:00:57.97	0.30	0.64	48.0550	9.5110	3.3	2.2	045	10.0f		15	9	128	0.75	2.93	m i ke	BGR	81208014
2008/12/08	02:00:57.85	0.08	0.16	48.0220	9.5080	1.0	0.7	060	7.0	2.0	34	13	127	0.27	1.58	m i ke	LED	81208004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3	0.3	14 LDG	81208024
ML	2.2	0.2	5 BGR	81208014
ML	2.0	0.3	13 LED	81208004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GUT	0.27	280.7	P*	02:01:03.120						T_				mci ML	2.4
GUT	0.27	280.7	S*	02:01:07.100						T_				m_i	
BUCH	0.44	346.5	P*	02:01:06.220						T_				mdi ML	1.8
BUCH	0.44	346.5	S*	02:01:12.510						T_				m_i	
SPAK	0.49	279.7	P*	02:01:07.540						T_				md_	
SPAK	0.49	279.7	S*	02:01:14.590						T_				m_i	
SISB	0.50	227.6	P*	02:01:08.190						T_				mci	
SISB	0.50	227.6	S*	02:01:14.750						T_				m_i	
UBR	0.53	130.1	P*	02:01:08.210						T_				mdi ML	1.8
UBR	0.53	130.1	S*	02:01:18.720						T_				m_	
TUBL	0.58	330.7	P*	02:01:08.920						T_				mdi ML	1.8
TUBL	0.58	330.7	PmP	02:01:11.130	-0.8					T_				mci	
DAVA	0.78	161.0	Pg	02:01:12.981	0.4					T_				m_e ML	1.9
DAVA	0.78	161.0	Sg	02:01:24.227	1.6					T_				m_e	
STU	0.78	344.5	P*	02:01:12.380						T_				m_ ML	2.2
STU	0.78	344.5	PmP	02:01:13.730	-1.3					T_				m_	
STU	0.78	344.5	Sg	02:01:22.785	0.2					T_				m_e	
STU	0.78	344.5	SmS	02:01:25.380	-1.4					T_				m_	
LBG	0.80	323.8	P*	02:01:12.830						T_				mdi ML	2.1
LBG	0.80	323.8	Pg	02:01:13.300	0.4					T_				m_	
LBG	0.80	323.8	PmP	02:01:14.060	-1.3					T_				m_	
LBG	0.80	323.8	S*	02:01:23.780						T_				m_	
LBG	0.80	323.8	SmS	02:01:25.790	-1.6					T_				m_	
OBER	0.81	139.0	P*	02:01:13.520						T_				m_ ML	1.4



OBER	0.81	139.0	PmP	02:01:15.560	-0.0	T	m													
BFO	0.84	291.8	P*	02:01:13.740		T	md	ML												2.5
BFO	0.84	291.8	PmP	02:01:14.510	-1.6	T	m	i												
BFO	0.84	291.8	S*	02:01:24.560			m													
BFO	0.84	291.8	SmS	02:01:27.080	-1.6	T	m													
FELD	1.02	262.3	Pg	02:01:17.430	0.4	T	m													
FELD	1.02	262.3	Sg	02:01:31.760	1.5	T	m													
KIZ	1.07	267.1	P	02:01:17.040		T	m	ML												2.4
KIZ	1.07	267.1	Pg	02:01:18.210	0.2	T	m													
KIZ	1.07	267.1	PmP	02:01:18.500	-1.4	T	m													
KIZ	1.07	267.1	Sg	02:01:32.060	0.3	T	m													
FUR	1.19	82.5	Pg	02:01:20.670	0.4		m	e	ML											2.4
FUR	1.19	82.5	Sg	02:01:36.953	1.3		m	e												
SIND	1.33	2.7	P	02:01:20.700		T	m	ML												2.2
SIND	1.33	2.7	Pg	02:01:23.150	0.2		m													
SIND	1.33	2.7	Sg	02:01:40.240	0.1	T	m													
BBS	1.46	248.2	P	02:01:23.040			md													
BBS	1.46	248.2	Pg	02:01:25.950	0.7		m													
SWS	1.56	340.3	P	02:01:24.370			m	ML												2.0
SWS	1.56	340.3	Pg	02:01:27.230	0.0		m													
ECH	1.58	277.9	Pg	02:01:27.700	0.0		m	ML												1.8
ECH	1.58	277.9	Sg	02:01:48.200	0.1		m													
WTTA	1.62	117.1	Pg	02:01:28.201	-0.2		m	e												
WTTA	1.62	117.1	Sg	02:01:49.750	0.3		m	e												
GRA1	2.01	33.4	Pg	02:01:35.493	-0.3		m	e	ML											2.4
GRA1	2.01	33.4	Sg	02:02:00.449	-1.4		m	e												
TNS	2.31	342.9	Sg	02:02:11.107	-0.1		m	e												
WLF	2.75	307.9	Sg	02:02:24.286	-1.0		m	e												
MOX	2.96	26.8	Sg	02:02:29.960	-2.0		m	e												

Event 81208011 Moenchengladbach

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/08	17:21:52.60	0.05	0.22	51.1191	6.4839	1.0	0.7	005	2.0	0.0	65	24	136			m i ke	LDG	81208031
2008/12/08	17:21:52.71	0.26	0.47	51.0720	6.5490	3.3	2.2	126	1.0f		18	8	138	0.50	2.50	m i ki	BGR	81208021
2008/12/08	17:21:53.00	1.00	0.21	51.0880	6.5080				0.7	3.9		16	174	0.03	1.03	m i ki	BNS	81208011

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.3	26 LDG	81208031
ML	2.6	0.2	5 BGR	81208021
ML	2.2		BNS	81208011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BD09	0.03	287.1	Pg	17:21:53.670	0.1					T				mci	
BD11	0.05	263.4	Pg	17:21:54.120	0.2					T				mci	
BD03	0.10	162.2	Pg	17:21:55.170	0.3					T				m_e	
BD07	0.18	144.1	Pg	17:21:56.940	0.6					T				m_e	
BA05	0.20	150.1	Pg	17:21:57.410	0.7					T				m_e	
RODG	0.21	285.5	Pg	17:21:57.070	0.0					T				m_e	
RODG	0.21	285.5	Sg	17:22:00.810	1.0					T		1271.9	0.28	m_e	
LAUG	0.38	45.9	Pg	17:21:59.280	-0.9					T				mce	

LAUG	0.38	45.9	Sg	17:22:04.270	-0.8	T__	118.2	0.41	m_e										
BNS	0.44	106.2	Sg	17:22:07.510	0.6	T__	356.9	0.24	m_e										
KLL	0.46	195.8	Pg	17:22:01.400	-0.2	T__			m_e										
DREG	0.46	202.3	Pg	17:22:01.430	-0.2	T__			m_e										
DREG	0.46	202.3	Sg	17:22:07.700	0.1	T__	228.3	0.37	m_e										
HGN	0.49	228.5	Pg	17:22:01.980	-0.2	---			m_e										
HGN	0.49	228.5	Sg	17:22:08.661	0.2	---			m_e										
HOBG	0.53	101.1	Pg	17:22:03.300	0.3	T__			m_e										
STB	0.54	156.9	Pg	17:22:03.510	0.4	T__			m_e										
MEM	0.57	213.7	Pg	17:22:03.571	-0.2	---			m_e										
MEM	0.57	213.7	Sg	17:22:11.186	-0.0	---			m_e										
BUG	0.59	53.2	Pg	17:22:03.562	-0.6	---			m_e	ML	2.2								
BUG	0.59	53.2	Sg	17:22:11.501	-0.3	---			m_e										
HILG	0.80	172.2	Pg	17:22:08.140	-0.0	T__			m_e										
HILG	0.80	172.2	Sg	17:22:19.630	1.1	T__	84.4	0.27	m_e										
WTSB	0.90	11.5	Pg	17:22:09.462	-0.4	---			m_e										
WTSB	0.90	11.5	Sg	17:22:22.640	1.2	---			m_e										
KOE	1.02	130.1	Pg	17:22:12.540	0.3	T__			m_e										
KOE	1.02	130.1	Sg	17:22:26.660	1.3	T__			m_e										
BGG	1.03	148.9	Pg	17:22:12.140	-0.2	T__			m_e										
BGG	1.03	148.9	Sg	17:22:26.990	1.4	T__	66.5	0.14	m_e										
WLF	1.44	189.2	Pg	17:22:19.153	-1.0	---			m_e	ML	2.7								
WLF	1.44	189.2	Sg	17:22:38.123	-0.7	---			m_e										
IBBN	1.44	32.0	Pg	17:22:19.269	-0.9	---			m_e	ML	2.7								
IBBN	1.44	32.0	Sg	17:22:38.988	0.1	---			m_e										
TNS	1.50	124.4	Pn	17:22:20.071	-0.3	---			m_e	ML	2.5								
TNS	1.50	124.4	Pg	17:22:21.173	-0.2	---			m_e										
TNS	1.50	124.4	Sg	17:22:40.150	-0.6	---			m_e										
CLZ	2.52	71.1	Pn	17:22:33.104	-1.1	---			m_e	ML	2.7								
CLZ	2.52	71.1	Pg	17:22:39.528	-1.0	---			m_e										
CLZ	2.52	71.1	Sg	17:23:11.837	-1.3	---			m_e										

Event 81210001 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/10	03:28:01.00			51.6500	6.5600				10.0f							m i uk	NEIC	81210041
2008/12/10	03:28:04.10	0.08	0.37	51.5340	6.5732	1.5	1.2	149	11.0f		74	20	077			m i ke	LDG	81210031
2008/12/10	03:28:05.50	1.28	0.41	51.4600	6.5840				1.1	8.0		10	257	0.25	1.34	m i ki	BNS	81210021
2008/12/10	03:28:05.78	0.24	0.80	51.4650	6.6280	3.3	2.2	113	1.0f		21	10	075	0.40	2.35	m i ki	BGR	81210011
2008/12/10	03:28:04.50			51.4990	6.6130				1.0f				204	0.03	0.41	m i ki	BUG	81210001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.3		NEIC	81210041
ML	3.3	0.3	22 LDG	81210031
ML	2.6		BNS	81210021
ML	2.8	0.1	5 BGR	81210011
ML	2.6		BUG	81210001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.03	302.3	Pg	03:28:05.000	-0.1					T__				m__	ML 2.6
BRHE	0.03	302.3	Sg	03:28:05.600	0.1					T__				m__	

LAUG	0.25	125.5	Pg	03:28:10.230	0.9													m_i			
BUG	0.41	97.9	Pg	03:28:13.300	1.0													mde	ML		2.6
BUG	0.41	97.9	Sg	03:28:19.700	2.1													m			
RODG	0.45	217.5	Pg	03:28:13.420	0.5													m_e			
RODG	0.45	217.5	Sg	03:28:19.810	1.1							1145.3	0.52					m_e			
OPLO	0.47	283.6	Pg	03:28:14.592	1.2													m_e			
WTSB	0.48	13.8	Pg	03:28:14.361	0.8													m_e			
WTSB	0.48	13.8	Sg	03:28:21.276	1.5													m_e			
BNS	0.64	146.4	Pg	03:28:17.840	1.3													m_e			
BNS	0.64	146.4	Sg	03:28:26.630	1.8								324.7	0.45				m_e			
HOBG	0.69	138.5	Pg	03:28:18.450	1.0													m_e			
HGN	0.85	210.5	Pg	03:28:20.599	0.1													m_e			
HGN	0.85	210.5	Sg	03:28:32.212	0.7													m_e			
DREG	0.87	196.1	Pg	03:28:21.180	0.3													m_e			
DREG	0.87	196.1	Sg	03:28:33.500	1.4								267.9	0.25				m_e			
KLL	0.87	192.7	Pg	03:28:21.180	0.2													m_e			
KLL	0.87	192.7	Sg	03:28:33.190	1.0									282.2	0.62			m_e			
STB	0.92	171.0	Pg	03:28:22.600	0.8													m_e			
STB	0.92	171.0	Sg	03:28:34.390	0.8								255.0	0.31				m_e			
MEM	0.97	203.4	Pg	03:28:22.813	0.1													m_e			
MEM	0.97	203.4	Sg	03:28:35.991	0.7													m_e			
IBBN	1.07	40.8	Pg	03:28:25.903	1.2													m_e	ML		2.9
IBBN	1.07	40.8	Sg	03:28:41.061	2.5													m_e			
HILG	1.21	178.0	Pg	03:28:27.810	0.5													m_e			
HILG	1.21	178.0	Sg	03:28:43.940	1.1								267.6	0.37				m_e			
KOE	1.28	146.3	Pg	03:28:28.780	0.1													m_e			
WIT	1.31	1.5	Pg	03:28:31.008	1.7													m_e			
WIT	1.31	1.5	Sg	03:28:48.927	2.7													m_e			
BGG	1.37	160.2	Pg	03:28:29.830	-0.5													m_e			
BGG	1.37	160.2	Sg	03:28:49.000	0.9								83.1	0.25				m_e			
TNS	1.72	137.1	Pn	03:28:35.201	0.4													m_e	ML		2.6
TNS	1.72	137.1	Pg	03:28:37.698	0.7													m_e			
TNS	1.72	137.1	Sg	03:28:59.852	0.6													m_e			
WLF	1.86	189.2	Pg	03:28:39.277	-0.2													m_e	ML		2.9
WLF	1.86	189.2	Sg	03:29:02.513	-1.0													m_e			
CLZ	2.36	80.2	Pn	03:28:43.879	0.5													m_e	ML		2.9
CLZ	2.36	80.2	Pg	03:28:48.565	-0.3													m_e			
CLZ	2.36	80.2	Sg	03:29:19.929	0.6													m_e			
HROE	2.43	112.0	Pn	03:28:46.900	2.5													mci	ML		2.5

Event 81210013 Klingenthal, Kraslice/CR, Erzgebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/10	10:58:57.74	0.42	0.24	50.1965	12.2004	4.5	2.3	054	0.0	0.0	10	2	342			m i sm	ZAMG	81210023
2008/12/10	10:59:00.53	0.23		50.2440	12.4370	2.2	1.1	105	10.3	2.0	30	15	109	0.06	1.14	m i ke	BGR	81210013
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
ML	2.3	0.0	2 ZAMG	81210023
ML	2.2	0.3	6 BGR	81210013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------

WERN	0.06	318.1	Pg	10:59:02.796	0.2	T__	m_e		
WERN	0.06	318.1	Sg	10:59:04.138	0.1	T__	m_e		
ROHR	0.08	263.1	Pg	10:59:02.975	0.2	T__	m_e		
ROHR	0.08	263.1	Sg	10:59:04.390	0.0	T__	m_e		
GUNZ	0.14	330.6	Pg	10:59:03.966	0.3	T__	m_e		
GUNZ	0.14	330.6	Sg	10:59:05.952	0.2	T__	m_e		
MULD	0.17	352.8	Pg	10:59:04.383	0.2	T__	m_e		
MULD	0.17	352.8	Sg	10:59:06.646	-0.0	T__	m_e		
TANN	0.17	5.2	Pg	10:59:04.432	0.2	T__	m_e		
TANN	0.17	5.2	Sg	10:59:06.640	-0.1	T__	m_e		
TRIB	0.22	299.5	Pg	10:59:05.369	0.3	T__	m_e		
TRIB	0.22	299.5	Sg	10:59:08.335	0.2	T__	m_e		
WERD	0.22	337.8	Pg	10:59:05.335	0.3	T__	m_e		
WERD	0.22	337.8	Sg	10:59:08.159	0.0	T__	m_e		
PLN	0.30	323.6	Pg	10:59:06.859	0.4	T__	m_e		
PLN	0.30	323.6	Sg	10:59:10.707	0.2	T__	m_e		
SCHF	0.43	357.2	Pg	10:59:09.226	0.3	T__	m_e	ML	2.6
SCHF	0.43	357.2	Sg	10:59:15.020	0.4	T__	m_e		
ROTZ	0.50	197.3	Pg	10:59:10.490	0.4	T__	m_e		
ROTZ	0.50	197.3	Sg	10:59:17.002	0.3	T__	m_e		
MOX	0.66	307.8	Pg	10:59:13.566	0.5	T__	m_e	ML	1.6
MOX	0.66	307.8	Sg	10:59:21.928	0.3	T__	m_e		
GRA1	0.96	235.2	Pg	10:59:19.168	0.5	T__	m_e	ML	2.4
GRA1	0.96	235.2	Sg	10:59:31.424	0.4	T__	m_e		
CLL	1.12	18.4	Pg	10:59:21.858	0.1	T__	m_e	ML	2.1
CLL	1.12	18.4	Sg	10:59:36.825	0.5	T__	m_e		
WET	1.14	165.3	Pg	10:59:21.920	-0.1	T__	m_e	ML	2.2
WET	1.14	165.3	Sg	10:59:36.499	-0.3	T__	m_e		
BRG	1.14	56.1	Pg	10:59:22.253	0.1	T__	m_e	ML	2.3
BRG	1.14	56.1	Sg	10:59:37.026	0.0	T__	m_e		

Event 81210015 Klingenthal, Kraslice/CR, Erzgebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/10	12:03:35.52	0.27	0.81	50.1553	12.3719	3.1	1.4	065	0.0	0.0	10	2	341			m i sm	ZAMG	81210025
2008/12/10	12:03:36.21	0.24		50.2510	12.4450	2.2	1.1	106	10.2	2.0	30	15	109	0.06	1.14	m i ke	BGR	81210015

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3	0.0	2 ZAMG	81210025
ML	2.2	0.3	6 BGR	81210015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WERN	0.06	309.6	Pg	12:03:38.484	0.2					T__					m_e
WERN	0.06	309.6	Sg	12:03:39.713	0.1					T__					m_e
ROHR	0.08	258.7	Pg	12:03:38.697	0.1					T__					m_e
ROHR	0.08	258.7	Sg	12:03:40.084	-0.1					T__					m_e
GUNZ	0.13	327.3	Pg	12:03:39.614	0.3					T__					m_e
GUNZ	0.13	327.3	Sg	12:03:41.586	0.2					T__					m_e
MULD	0.16	350.7	Pg	12:03:40.027	0.3					T__					m_e
MULD	0.16	350.7	Sg	12:03:42.242	0.1					T__					m_e
TANN	0.16	3.7	Pg	12:03:40.002	0.2					T__					m_e

TANN	0.16	3.7	Sg	12:03:42.153	-0.0	T__	m_e		
WERD	0.22	335.8	Pg	12:03:40.974	0.3	T__	m_e		
WERD	0.22	335.8	Sg	12:03:43.692	0.0	T__	m_e		
TRIB	0.22	297.3	Pg	12:03:41.030	0.3	T__	m_e		
TRIB	0.22	297.3	Sg	12:03:43.998	0.2	T__	m_e		
PLN	0.30	322.0	Pg	12:03:42.491	0.4	T__	m_e		
PLN	0.30	322.0	Sg	12:03:46.268	0.2	T__	m_e		
SCHF	0.43	356.4	Pg	12:03:44.827	0.4	T__	m_e	ML	2.5
SCHF	0.43	356.4	Sg	12:03:50.233	0.1	T__	m_e		
ROTZ	0.51	197.6	Pg	12:03:46.244	0.3	T__	m_e		
ROTZ	0.51	197.6	Sg	12:03:52.799	0.2	T__	m_e		
MOX	0.66	307.0	Pg	12:03:49.159	0.4	T__	m_e	ML	1.7
MOX	0.66	307.0	Sg	12:03:57.818	0.5	T__	m_e		
GRA1	0.96	235.1	Pg	12:03:54.921	0.4	T__	m_e	ML	2.5
GRA1	0.96	235.1	Sg	12:04:07.499	0.5	T__	m_e		
CLL	1.11	18.2	Pg	12:03:57.528	0.2	T__	m_e	ML	2.2
CLL	1.11	18.2	Sg	12:04:11.992	0.3	T__	m_e		
BRG	1.14	56.2	Pg	12:03:58.076	0.4	T__	m_e	ML	2.2
BRG	1.14	56.2	Sg	12:04:12.346	-0.1	T__	m_e		
WET	1.14	165.6	Pg	12:03:57.736	-0.1	T__	m_e	ML	2.2
WET	1.14	165.6	Sg	12:04:12.465	-0.1	T__	m_e		

Event 81210016 Klingenthal, Kraslice/CR, Erzgebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/10	12:04:37.84	0.25		50.2500	12.4430	2.2	1.1	108	10.0	2.0	29	15	109	0.06	1.14	m i ke	BGR	81210016

Magnitude	Err	Nsta	Author	OrigID
ML	2.0	0.3	6 BGR	81210016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
WERN	0.06	311.2	Pg	12:04:40.083	0.2					T__				m_e		
WERN	0.06	311.2	Sg	12:04:41.342	0.1					T__				m_e		
ROHR	0.08	259.2	Pg	12:04:40.296	0.2					T__				m_e		
ROHR	0.08	259.2	Sg	12:04:41.726	0.0					T__				m_e		
GUNZ	0.13	328.0	Pg	12:04:41.202	0.3					T__				m_e		
GUNZ	0.13	328.0	Sg	12:04:43.117	0.2					T__				m_e		
MULD	0.16	351.2	Pg	12:04:41.618	0.3					T__				m_e		
MULD	0.16	351.2	Sg	12:04:43.844	0.1					T__				m_e		
TANN	0.17	4.1	Pg	12:04:41.637	0.3					T__				m_e		
TANN	0.17	4.1	Sg	12:04:43.802	-0.0					T__				m_e		
WERD	0.22	336.2	Pg	12:04:42.554	0.3					T__				m_e		
WERD	0.22	336.2	Sg	12:04:45.221	-0.0					T__				m_e		
TRIB	0.22	297.7	Pg	12:04:42.613	0.3					T__				m_e		
TRIB	0.22	297.7	Sg	12:04:45.554	0.2					T__				m_e		
PLN	0.30	322.3	Pg	12:04:44.058	0.4					T__				m_e		
PLN	0.30	322.3	Sg	12:04:47.969	0.3					T__				m_e		
SCHF	0.43	356.6	Pg	12:04:46.445	0.4					T__				m_e	ML	2.3
SCHF	0.43	356.6	Sg	12:04:52.069	0.3					T__				m_e		
ROTZ	0.51	197.5	Pg	12:04:47.892	0.4					T__				m_e		
ROTZ	0.51	197.5	Sg	12:04:54.495	0.3					T__				m_e		
MOX	0.66	307.2	Pg	12:04:50.798	0.4					T__				m_e	ML	1.4

MOX	0.66	307.2	Sg	12:04:59.537	0.6	T__	m_e		
GRA1	0.96	235.1	Pg	12:04:56.597	0.5	T__	m_e ML	2.2	
GRA1	0.96	235.1	Sg	12:05:08.814	0.2	T__	m_e		
CLL	1.12	18.3	Pg	12:04:59.072	0.1	T__	m_e ML	1.9	
CLL	1.12	18.3	Sg	12:05:13.909	0.5	T__	m_e		
BRG	1.14	56.2	Pg	12:04:59.663	0.3	T__	m_e ML	2.0	
BRG	1.14	56.2	Sg	12:05:13.913	-0.2	T__	m_e		
WET	1.14	165.6	Sg	12:05:14.309	0.1	T__	m_e ML	1.9	

Event 81212004 Reutlingen

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/12	03:02:50.70			48.4270	9.0980				10.0f							m i uk	NEIC	81212044
2008/12/12	03:02:51.75	0.22	0.34	48.4329	9.0738	1.8	1.0	091	9.9	1.2	23	5	303			m i uk	ZAMG	81212034
2008/12/12	03:02:53.00	0.04	0.24	48.4411	9.0319	0.7	0.6	149	10.0	0.0	63	19	056			m i ke	LDG	81212024
2008/12/12	03:02:53.04	0.27	0.53	48.4650	9.0300	3.3	2.2	174	10.0f		14	8	100		2.23	m i ke	BGR	81212014
2008/12/12	03:02:52.88	0.10	0.18	48.4440	9.0330	1.1	0.9	044	9.0	2.0	30	16	057	0.09	2.25	m i ke	LED	81212004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.5		NEIC	81212044
ML	2.3	0.4	5 ZAMG	81212034
ML	2.5	0.3	21 LDG	81212024
ML	2.2	0.3	5 BGR	81212014
ML	2.1	0.2	16 LED	81212004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
TUBL	0.09	22.8	P*	03:02:55.360						T__				mc_ ML	2.1
TUBL	0.09	22.8	S*	03:02:56.890						T__				m_i	
BUCH	0.21	88.4	P*	03:02:57.280						T__				mci ML	2.3
BUCH	0.21	88.4	S*	03:03:00.560						T__				m_i	
LBG	0.27	324.5	P*	03:02:58.370						T__				mdi ML	2.1
LBG	0.27	324.5	S*	03:03:02.290						T__				m_i	
LBG	0.27	324.5	SmS	03:03:06.930	-2.9									m_i	
STU	0.34	17.9	S*	03:03:04.250						T__				m_i ML	1.9
GUT	0.38	171.6	P*	03:03:00.260						T__				mdi ML	1.8
GUT	0.38	171.6	S*	03:03:05.360						T__				m__	
SPAK	0.38	205.8	P*	03:03:00.500						T__				m__	
SPAK	0.38	205.8	S*	03:03:05.510						T__				m__	
BFO	0.48	256.6	P*	03:03:02.230						T__				mci ML	2.0
BFO	0.48	256.6	PmP	03:03:05.610	0.2									m__	
BFO	0.48	256.6	S*	03:03:08.680						T__				m__	
BFO	0.48	256.6	SmS	03:03:11.910	-2.1					T__				m__	
SISB	0.76	183.5	P*	03:03:07.380						T__				m__ ML	2.2
SISB	0.76	183.5	S*	03:03:17.740						T__				m__	
SISB	0.76	183.5	SmS	03:03:19.620	-1.4					T__				m__	
HDH	0.79	79.3	Pg	03:03:08.210	0.4					T__				m__ ML	2.2
HDH	0.79	79.3	Sg	03:03:18.340	0.2					T__				m__	
KIZ	0.89	237.1	Pn	03:03:09.420	-1.5					T__				mce ML	2.2
KIZ	0.89	237.1	Pg	03:03:10.110	0.4					T__				m__	
KIZ	0.89	237.1	Sg	03:03:20.990	-0.2					T__				m__	
FELD	0.89	230.8	Pn	03:03:09.700	-1.3					T__				mci	

LANF	0.97	304.0	Sg	03:03:24.700	0.8	T__	m__		
SIND	0.98	22.4	Pg	03:03:11.660	0.2	T__	m__ ML	2.4	
LIBD	1.00	253.4	Pg	03:03:12.480	0.8	T__	m__		
UBR	1.05	136.3	Pg	03:03:13.380	0.7	T__	m__ ML	2.2	
TOD	1.17	352.7	Sg	03:03:30.570	0.4	T__	m__		
ECH	1.27	260.3	Pg	03:03:17.150	0.3	T__	m__ ML	1.8	
ECH	1.27	260.3	Sg	03:03:33.700	0.5	T__	m__		
DAVA	1.29	153.5	Pg	03:03:17.618	0.4	---	m_e ML	2.0	
DAVA	1.29	153.5	Sg	03:03:34.943	1.0	---	m_e		
OBER	1.34	140.4	Pg	03:03:19.020	0.9	---	m__ ML	2.7	
MOF	1.40	245.7	Pg	03:03:20.240	0.9	---	m__		
BBS	1.41	226.7	Sg	03:03:38.420	0.5	---	m__		
FUR	1.52	99.8	Pg	03:03:21.526	0.0	---	m_e ML	2.5	
FUR	1.52	99.8	Sg	03:03:41.816	0.7	---	m_e		
TNS	1.82	348.1	Pg	03:03:26.350	-0.8	---	m__ ML	2.2	
TNS	1.82	348.1	Sg	03:03:51.000	0.3	---	m__		
LOMF	1.84	234.3	Pg	03:03:27.880	0.3	---	m__		
GRA1	1.90	48.1	Pn	03:03:25.838	1.2	---	m_e ML	2.6	
GRA1	1.90	48.1	Pg	03:03:28.653	-0.1	---	m_e		
GRA1	1.90	48.1	Sg	03:03:51.926	-1.4	---	m_e		
WLF	2.25	304.0	Sg	03:04:04.060	-0.3	---	m__ ML	2.3	

Event 81212005 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
2008/12/12	07:20:05.91	0.36	0.61	51.6190	7.7780	4.4	3.3	173	1.0f		12	6	141	0.36	1.62	m i ki	BGR	81212015
2008/12/12	07:20:04.60			51.6230	7.7870				1.0f				229	0.12	0.37	m i ki	BUG	81212005

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.1	4 BGR	81212015
ML	2.0		BUG	81212005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.12	10.7	Pg	07:20:07.500	0.7					T__				m__ ML	1.8
BAHL	0.12	10.7	Sg	07:20:09.600	1.3					T__				m__	
BUG	0.37	240.7	Pg	07:20:12.500	0.9					TA__				mde ML	2.0
BUG	0.37	240.7	Sg	07:20:18.300	1.9					TA__				m__	
WTSB	0.70	299.7	Pg	07:20:19.422	1.6					---				m_e	
WTSB	0.70	299.7	Sg	07:20:28.675	1.8					---				m_e	
DREG	1.37	226.0	Pg	07:20:30.607	0.2					---				m_e ML	2.0
DREG	1.37	226.0	Sg	07:20:49.076	1.0					---				m_e	
HGN	1.45	234.3	Pn	07:20:31.590	0.4					---				m_e	
HGN	1.45	234.3	Sg	07:20:51.466	0.9					---				m_e	
TNS	1.46	163.2	Pg	07:20:33.360	1.2					---				m_e ML	2.0
TNS	1.46	163.2	Sg	07:20:53.200	2.2					---				m_e	
CLZ	1.62	81.2	Pg	07:20:35.986	0.9					---				m_e ML	2.1
CLZ	1.62	81.2	Sg	07:20:58.022	2.1					---				m_e	

## Event 81212006 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
2008/12/12	07:20:39.98	0.30	0.52	51.5970	7.7800	3.3	3.3	139	1.0f		13	7	083	0.35	1.62	m i ki	BGR	81212016
2008/12/12	07:20:38.10			51.6510	7.7800				1.0f				219	0.09	0.38	m i ki	BUG	81212006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.1	5 BGR	81212016
ML	2.1		BUG	81212006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.09	16.7	Pg	07:20:41.200	1.4					T__				m__	ML 2.0
BAHL	0.09	16.7	Sg	07:20:43.200	2.2					T__				m__	
BUG	0.38	236.7	Pg	07:20:46.200	0.9					TA_				mde	ML 2.1
BUG	0.38	236.7	Sg	07:20:52.100	1.9					TA_				m__	
IBBN	0.66	358.9	Pg	07:20:53.353	2.9					---				m_e	ML 2.2
IBBN	0.66	358.9	Sg	07:21:03.311	4.4					---				m_e	
WTSB	0.68	297.8	Pg	07:20:53.211	2.2					---				m_e	
WTSB	0.68	297.8	Sg	07:21:02.586	2.8					---				m_e	
DREG	1.38	225.1	Pg	07:21:05.229	1.0					---				m_e	ML 2.1
DREG	1.38	225.1	Sg	07:21:23.481	1.4					---				m_e	
HGN	1.46	233.3	Pn	07:21:05.497	0.7					---				m_e	
HGN	1.46	233.3	Sg	07:21:24.800	0.4					---				m_e	
TNS	1.49	163.3	Sg	07:21:26.301	0.9					---				m_e	ML 2.0
CLZ	1.62	82.2	Pg	07:21:10.050	1.5					---				m_e	ML 2.2
CLZ	1.62	82.2	Sg	07:21:31.936	2.5					---				m_e	

## Event 81212003 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/12	22:45:56.67	0.34	1.02	50.3630	18.8010	6.7	3.3	007	1.0f		23	13	174	0.65	4.91	m i ki	BGR	81212013

Magnitude	Err	Nsta	Author	OrigID
ML	3.7	0.4	10 BGR	81212013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OJC	0.65	102.3	Pg	22:46:08.387	-0.6					T__				m_e	ML 3.5
OJC	0.65	102.3	Sg	22:46:17.039	-0.4					T__				m_e	
OKC	0.67	218.8	Pg	22:46:09.595	0.3					T__				m_e	ML 3.0
OKC	0.67	218.8	Sg	22:46:19.228	1.2					T__				m_e	
MORC	1.00	234.5	Pg	22:46:15.186	-0.3					T__				m_e	ML 3.5
MORC	1.00	234.5	Sg	22:46:28.926	0.6					T__				m_e	
DPC	1.58	270.5	Pn	22:46:25.277	0.2					T__				m_e	ML 3.3
DPC	1.58	270.5	Pg	22:46:26.076	-0.4					T__				m_e	
DPC	1.58	270.5	Sg	22:46:47.273	0.4					T__				m_e	
KSP	1.66	287.8	Pn	22:46:26.549	0.4					T__				m_e	ML 3.3
KSP	1.66	287.8	Sg	22:46:49.573	0.1					T__				m_e	
BRG	3.12	281.3	Pn	22:46:47.043	1.1					T__				m_e	ML 3.6
BRG	3.12	281.3	Sg	22:47:36.297	0.4					T__				m_e	
GEC2	3.64	247.3	Pn	22:46:53.398	0.5					T__				m_e	ML 4.0
GEC2	3.64	247.3	Sg	22:47:50.581	-1.6					T__				m_e	
CLL	3.78	286.7	Sg	22:47:58.083	1.3					T__				m_e	ML 4.0



WET	4.01	254.6	Pn	22:46:59.142	1.1	T__	m_e	ML	4.1
WET	4.01	254.6	Sg	22:48:02.600	-1.6	T__	m_e		
TANN	4.04	273.2	Pn	22:46:59.900	1.5	T__	m_e		
WERD	4.14	273.7	Sg	22:48:07.781	-0.4	T__	m_e		
ROTZ	4.27	264.5	Pn	22:47:01.461	-0.1	T__	m_e		
MOX	4.58	276.3	Sg	22:48:21.545	-0.5	T__	m_e		
GRA1	4.91	265.1	Sg	22:48:33.781	1.0	T__	m_e	ML	4.2

Event 81213001 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/13	06:02:23.90			46.4980	10.0590				1.0							m i uk	SED	81213011
2008/12/13	06:02:26.13	0.52	1.00	46.5330	10.0970	6.7	4.4	018	10.0f		26	14	246	0.77	4.23	m i ke	BGR	81213001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.3		SED	81213011
ML	3.3	0.3	9 BGR	81213001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
DAVA	0.77	349.0	Pg	06:02:39.691	-1.0					T__				m_e	ML 3.1
DAVA	0.77	349.0	Sg	06:02:50.571	-0.1					T__				m_e	
OBER	0.88	8.6	Pg	06:02:41.300	-1.6					---				mce	ML 3.1
OBER	0.88	8.6	Sg	06:02:55.700	1.3					---				mce	
SCE	1.21	64.8	Pg	06:02:46.900	-2.2					---				mdi	ML 2.8
WTTA	1.28	54.6	Pg	06:02:48.652	-1.7					T__				m_e	ML 3.0
FUR	1.81	25.7	Pg	06:03:00.065	-0.3					T__				m_e	ML 3.7
FUR	1.81	25.7	Sg	06:03:24.560	0.7					T__				m_e	
BFO	2.16	327.0	Pn	06:03:02.005	0.7					T__				m_e	ML 3.1
BFO	2.16	327.0	Sg	06:03:34.520	-0.2					T__				m_e	
RJOB	2.20	55.8	Pn	06:03:04.767	3.0					T__				m_e	ML 3.3
RJOB	2.20	55.8	Sg	06:03:36.637	0.7					T__				m_e	
KBA	2.29	75.0	Pg	06:03:06.738	-2.6					T__				m_e	ML 2.9
KBA	2.29	75.0	Sg	06:03:37.563	-1.3					T__				m_e	
MOA	3.12	63.6	Pn	06:03:17.048	2.7					T__				m_e	
WET	3.21	34.5	Pn	06:03:16.469	0.9					T__				m_e	ML 3.3
WET	3.21	34.5	Sn	06:03:55.159	4.0					T__				m_e	
GRA1	3.25	13.0	Pn	06:03:15.328	-0.7					T__				m_e	ML 3.7
GRA1	3.25	13.0	Sg	06:04:10.108	0.8					T__				m_e	
GEC2	3.35	45.1	Pn	06:03:19.315	1.9					T__				m_e	ML 3.4
GEC2	3.35	45.1	Sg	06:04:13.151	0.5					T__				m_e	
ROTZ	3.53	22.7	Pn	06:03:19.610	-0.2					T__				m_e	
ROTZ	3.53	22.7	Sn	06:04:01.773	3.1					T__				m_e	
ROTZ	3.53	22.7	Sg	06:04:17.120	-1.1					T__				m_e	
TNS	3.85	344.1	Pn	06:03:25.648	1.4					T__				m_e	
TNS	3.85	344.1	Sg	06:04:29.026	0.6					T__				m_e	
WLF	4.09	321.4	Pn	06:03:29.939	2.4					T__				m_e	
MOX	4.23	13.2	Pn	06:03:28.555	-0.9					T__				m_e	
MOX	4.23	13.2	Sn	06:04:18.840	3.6					T__				m_e	

## Event 81215003 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/15	13:46:28.32	0.38	0.88	50.2840	18.8570	6.7	3.3	010	1.0f		16	10	166	0.61	5.55	m i ki	BGR	81215003

Magnitude	Err	Nsta	Author	OrigID
ML	3.5	0.3	8 BGR	81215003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OJC	0.61	95.8	Pg	13:46:38.972	-0.8					T__				m_e ML	3.3
OJC	0.61	95.8	Sg	13:46:47.333	-0.2					T__				m_e	
OKC	0.64	225.9	Pg	13:46:40.021	-0.3					T__				m_e ML	3.2
OKC	0.64	225.9	Sg	13:46:49.065	0.5					T__				m_e	
MORC	0.99	239.5	Pg	13:46:46.137	-0.7					T__				m_e ML	3.4
MORC	0.99	239.5	Sg	13:46:59.184	-0.4					T__				m_e	
DPC	1.62	273.3	Pg	13:46:57.298	-1.6					T__				m_e ML	3.5
DPC	1.62	273.3	Sg	13:47:19.518	-0.3					T__				m_e	
KSP	1.72	289.9	Pg	13:47:00.520	-0.2					T__				m_e ML	3.6
KSP	1.72	289.9	Sg	13:47:24.103	1.1					T__				m_e	
BRG	3.18	282.6	Sg	13:48:08.943	-0.2					T__				m_e ML	3.7
FBE	3.55	282.5	Sg	13:48:20.517	-0.6					T__				m_e ML	3.2
CLL	3.84	287.7	Sg	13:48:31.153	0.9					T__				m_e	
TANN	4.08	274.3	Sg	13:48:36.471	-1.5					T__				m_e	
GRA1	4.94	266.1	Sg	13:49:04.247	-1.1					T__				m_e ML	4.2
CLZ	5.55	289.6	Sg	13:49:24.332	-0.3					T__				m_e	

## Event 81216001 Weinfeld, Kreuzlingen/CH (Thurgau)

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/16	00:34:32.60	0.06	0.39	47.4678	9.2532	1.1	1.0	077	2.0	0.0	94	31	086			m i ke	LDG	81216041
2008/12/16	00:34:32.70			47.4000	9.2000				8.0							m i uk	SED	81216031
2008/12/16	00:34:33.29	0.30	0.84	47.4247	9.2347	1.9	1.7	137	13.5	1.7	47	9	329			m i uk	ZAMG	81216021
2008/12/16	00:34:33.19	0.49	1.03	47.4440	9.1780	6.7	4.4	031	10.0f		25	14	211	0.50	3.67	m i ke	BGR	81216011
2008/12/16	00:34:33.29	0.16	0.32	47.4490	9.1980	2.0	1.5	018	7.0	4.0	46	18	132	0.20	2.99	m i ke	LED	81216001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.3	33 LDG	81216041
ML	2.9		SED	81216031
ML	3.1	0.3	14 ZAMG	81216021
ML	2.8	0.2	8 BGR	81216011
ML	2.9	0.1	20 LED	81216001

Effects	Loctyp	Location	Intensity	Scale	Author
F	Summar		3.0	EMS	ZAMG

(Felt in Goetzis, Vorarlberg.)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WILA	0.20	260.2	P*	00:34:37.330						T__				mci ML	3.3
SISB	0.28	326.5	P*	00:34:38.860						T__				md_ ML	2.8
SISB	0.28	326.5	S*	00:34:43.630						T__				m_	
ZUR	0.43	259.3	P*	00:34:41.680						T__				mc_ ML	2.9

ZUR	0.43	259.3	S*	00:34:48.250	
SLE	0.57	304.0	P*	00:34:44.100	
SLE	0.57	304.0	S*	00:34:51.970	
GUT	0.62	354.9	P*	00:34:44.990	
GUT	0.62	354.9	S*	00:34:53.790	
GUT	0.62	354.9	SmS	00:34:57.490	-0.8
UBR	0.66	69.0	P*	00:34:46.100	
UBR	0.66	69.0	PmP	00:34:47.170	-1.4
UBR	0.66	69.0	S*	00:34:55.680	
UBR	0.66	69.0	SmS	00:35:00.050	1.0
SPAK	0.71	337.2	P*	00:34:46.740	
SPAK	0.71	337.2	PmP	00:34:48.580	-0.8
SULZ	0.74	276.6	P*	00:34:47.570	
SULZ	0.74	276.6	S*	00:34:57.760	
SULZ	0.74	276.6	SmS	00:35:00.580	-0.6
OBER	0.74	92.8	P*	00:34:47.460	
OBER	0.74	92.8	PmP	00:34:50.040	0.1
OBER	0.74	92.8	S*	00:34:58.230	
OBER	0.74	92.8	SmS	00:35:02.480	1.2
KIZ	1.00	301.0	Pn	00:34:51.870	-1.2
KIZ	1.00	301.0	Pg	00:34:52.750	0.6
KIZ	1.00	301.0	S*	00:35:05.460	
KIZ	1.00	301.0	SmS	00:35:06.990	-1.5
BUCH	1.01	5.9	Pn	00:34:52.100	-1.1
BUCH	1.01	5.9	Pg	00:34:52.860	0.6
BUCH	1.01	5.9	S*	00:35:05.900	
BUCH	1.01	5.9	SmS	00:35:07.760	-0.9
BFO	1.06	326.9	P	00:34:52.940	
BFO	1.06	326.9	Pg	00:34:53.480	0.3
BFO	1.06	326.9	S	00:35:07.340	
TUBL	1.08	355.9	P	00:34:53.610	
TUBL	1.08	355.9	S	00:35:07.550	
TUBL	1.08	355.9	Sg	00:35:09.210	1.7
TUBL	1.08	355.9	SmS	00:35:09.950	-0.7
BBS	1.14	271.4	Pn	00:34:54.770	-0.2
BBS	1.14	271.4	Pg	00:34:55.400	0.6
LBG	1.24	347.7	P	00:34:55.700	
LBG	1.24	347.7	Pg	00:34:56.620	-0.2
LBG	1.24	347.7	S	00:35:11.740	
LIEN	1.24	347.7	P*	00:34:38.330	
LIEN	1.24	347.7	S*	00:34:42.730	
HDH	1.32	30.4	P	00:34:56.240	
HDH	1.32	30.4	Pg	00:34:58.030	-0.2
HDH	1.32	30.4	Sg	00:35:16.050	0.8
STU	1.32	359.9	Pg	00:34:57.920	-0.3
STU	1.32	359.9	S	00:35:13.520	
STU	1.32	359.9	Sg	00:35:15.920	0.6
MOF	1.45	286.9	Pg	00:35:00.600	-0.0
FUR	1.57	62.1	Pg	00:35:02.717	-0.1
FUR	1.57	62.1	Sg	00:35:24.540	1.4
ECH	1.57	300.0	Pg	00:35:02.900	0.0
ECH	1.57	300.0	Sg	00:35:22.850	-0.3
NORI	1.59	36.3	Pn	00:34:59.800	-1.3
NORI	1.59	36.3	Sg	00:35:24.000	0.2

T__	m__		
T__	md__	ML	2.7
T__	m__		
T__	mdi	ML	2.8
T__	m_i		
T__	m__		
T__	mci	ML	2.7
T__	m__		
T__	m__		
T__	md__		
T__	m__		
T__	m__	ML	2.9
T__	m__		
T__	mc__	ML	3.1
T__	m__		
T__	m__		
T__	md__	ML	3.0
T__	m__		
T__	m__		
T__	md__	ML	3.1
T__	m__		
T__	m_i		
T__	mdi	ML	2.9
T__	m__		
T__	m__		
T__	md__	ML	2.9
T__	m__		
T__	m__		
T__	mc__		
T__	m__		
T__	m__	ML	2.8
T__	md__		
T__	m__		
T__	md__	ML	2.7
T__	m__		
T__	mc__	ML	3.2
T__	m__		
T__	m__		
T__	m__	ML	3.0
T__	m__		
T__	m__		
T__	m_e	ML	3.0
T__	m_e		
T__	m__	ML	2.8
T__	m__		
T__	mci	ML	3.0
T__	mci		

LOMF	1.61	267.4	Pg	00:35:03.750	0.1	---	m_
LOMF	1.61	267.4	Sg	00:35:24.520	0.1	---	m_
WTTA	1.66	95.5	Pg	00:35:04.502	-0.1	---	m_e ML 2.7
SCE	1.75	102.6	Pn	00:35:06.300	3.0	---	mdi ML 2.6
SIND	1.92	8.0	P	00:35:04.260		---	md ML 3.0
SIND	1.92	8.0	Pg	00:35:09.170	-0.3	---	m_
SIND	1.92	8.0	S	00:35:27.710		---	m_
SIND	1.92	8.0	Sg	00:35:34.050	-0.2	---	m_
GRA1	2.61	30.1	Pn	00:35:13.246	-1.7	---	m_e ML 3.2
TNS	2.82	350.2	P	00:35:17.540		---	m ML 2.6
TNS	2.82	350.2	Sg	00:36:03.227	0.4	---	m_e
KBA	2.84	96.0	Pg	00:35:24.416	-2.4	---	m_e ML 2.8
KBA	2.84	96.0	Sg	00:36:02.134	-1.3	---	m_e
WET	2.98	53.9	Pn	00:35:19.561	-0.3	---	m_e
WET	2.98	53.9	Sn	00:35:53.795	0.3	---	m_e
WET	2.98	53.9	Sg	00:36:06.645	-1.2	---	m_e
GEC2	3.31	63.4	Pn	00:35:24.841	0.4	---	m_e
GEC2	3.31	63.4	Sn	00:36:03.364	2.0	---	m_e
MOA	3.44	81.4	Pg	00:35:36.284	-1.8	---	m_e
MOA	3.44	81.4	Sn	00:36:07.602	3.3	---	m_e
MOA	3.44	81.4	Sg	00:36:21.956	-0.5	---	m_e
MOX	3.57	25.5	Pn	00:35:25.878	-2.0	---	m_e
MOX	3.57	25.5	Sn	00:36:08.149	0.8	---	m_e
MOX	3.57	25.5	Sg	00:36:25.374	-1.2	---	m_e
TANN	3.66	34.6	Pg	00:35:40.945	-1.3	---	m_e
TANN	3.66	34.6	Sg	00:36:28.791	-0.8	---	m_e

Event 81216002 Weinfeld, Kreuzlingen/CH (Thurgau)

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/16	00:40:57.50	0.09	0.39	47.4665	9.2148	1.7	1.1	113	4.0f		58	19	118			m i ke	LDG	81216042
2008/12/16	00:40:56.60			47.4410	9.2020				7.0							m i uk	SED	81216032
2008/12/16	00:40:56.95	0.24	0.39	47.4360	9.2296	1.6	1.4	127	12.7	1.6	32	7	334			m i uk	ZAMG	81216022
2008/12/16	00:40:57.00	0.70	0.76	47.4310	9.1740	10.0	3.3	034	10.0f		15	10	222	0.50	3.34	m i ke	BGR	81216012
2008/12/16	00:40:57.14	0.13	0.24	47.4550	9.1980	1.7	1.3	007	6.0	3.0	38	15	130	0.20	1.91	m i ke	LED	81216002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.5	0.3	22 LDG	81216042
ML	2.3		SED	81216032
ML	2.5	0.3	9 ZAMG	81216022
ML	2.3	0.3	4 BGR	81216012
ML	2.4	0.2	17 LED	81216002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WILA	0.20	258.5	P*	00:41:01.160						T_				mc ML	2.5
WILA	0.20	258.5	S*	00:41:04.830						---				m_	
SISB	0.28	325.8	P*	00:41:02.700						T_				md ML	2.2
SISB	0.28	325.8	S*	00:41:07.500						---				m_	
ZUR	0.43	258.5	P*	00:41:05.500						T_				mci ML	2.4
ZUR	0.43	258.5	S*	00:41:11.900						---				m_i	
DAVA	0.49	109.8	Sg	00:41:13.635	0.8					---				m_e ML	2.0

SLE	0.57	303.5	P*	00:41:07.910		T__	md_	ML	2.0
SLE	0.57	303.5	S*	00:41:15.670		T__	m__		
SLE	0.57	303.5	SmS	00:41:20.160	-0.7	T__	m__		
GUT	0.62	354.9	P*	00:41:08.780		T__	mdi	ML	2.4
GUT	0.62	354.9	PmP	00:41:11.010	-0.9	T__	m__		
GUT	0.62	354.9	S*	00:41:17.550		T__	m_i		
GUT	0.62	354.9	SmS	00:41:21.390	-0.7	T__	m__		
UBR	0.65	69.5	P*	00:41:09.870		T__	mci	ML	2.1
UBR	0.65	69.5	S*	00:41:19.490		T__	m__		
UBR	0.65	69.5	SmS	00:41:23.790	0.8	T__	m__		
SPAK	0.70	337.0	P*	00:41:10.450		T__	m__		
SPAK	0.70	337.0	PmP	00:41:12.350	-0.9	T__	m__		
OBER	0.74	93.3	P*	00:41:11.240		T__	m__	ML	2.5
OBER	0.74	93.3	S*	00:41:22.060		T__	m__		
KIZ	1.00	300.7	Pn	00:41:15.940	-1.1	T__	md_	ML	2.4
KIZ	1.00	300.7	Pg	00:41:16.370	0.4	___	m__		
KIZ	1.00	300.7	PmP	00:41:16.850	-1.2	T__	m__		
KIZ	1.00	300.7	S*	00:41:29.100		T__	m__		
BUCH	1.00	5.9	Pn	00:41:15.890	-1.2	T__	md_	ML	2.7
BUCH	1.00	5.9	PmP	00:41:16.660	-1.4	T__	m__		
BUCH	1.00	5.9	S*	00:41:29.710		T__	m__		
BUCH	1.00	5.9	SmS	00:41:31.520	-0.9	T__	m__		
BFO	1.05	326.7	Pn	00:41:16.760	-1.0	T__	m__	ML	2.4
BFO	1.05	326.7	Pg	00:41:17.260	0.3	T__	m__		
BFO	1.05	326.7	S	00:41:30.640		T__	m__		
TUBL	1.07	355.9	P*	00:41:17.480		T__	m__	ML	2.3
TUBL	1.07	355.9	Pg	00:41:17.970	0.6	T__	m__		
TUBL	1.07	355.9	S*	00:41:31.290		T__	m__		
BBS	1.14	271.1	Pg	00:41:19.100	0.4	T__	m__		
LBG	1.24	347.6	P	00:41:19.600		___	m__	ML	2.3
LBG	1.24	347.6	Pg	00:41:20.400	-0.1	T__	md_		
LBG	1.24	347.6	S	00:41:35.300		T__	m__		
LIEN	1.24	347.6	P*	00:41:02.260		T__	md_	ML	1.9
LIEN	1.24	347.6	S*	00:41:06.610		___	m__		
HDH	1.32	30.5	P	00:41:20.140		T__	m__	ML	2.7
HDH	1.32	30.5	Pg	00:41:21.810	-0.1	T__	m__		
HDH	1.32	30.5	S	00:41:37.950		___	m__		
HDH	1.32	30.5	Sg	00:41:39.680	0.7	T__	m__		
STU	1.32	359.9	Pg	00:41:21.770	-0.2	___	m__	ML	2.4
STU	1.32	359.9	Sg	00:41:39.720	0.7	T__	m__		
FUR	1.56	62.3	Pg	00:41:26.499	-0.1	___	m_e		
FUR	1.56	62.3	Sg	00:41:48.277	1.4	___	m_e		
ECH	1.57	299.8	Pg	00:41:27.200	0.5	___	m__	ML	2.2
ECH	1.57	299.8	Sg	00:41:46.600	-0.3	___	m__		
WTTA	1.66	95.7	Pg	00:41:28.312	-0.2	___	m_e		
WTTA	1.66	95.7	Sg	00:41:51.237	1.2	___	m_e		
SIND	1.91	8.0	P	00:41:27.980		___	m__	ML	2.4
SIND	1.91	8.0	Pg	00:41:32.960	-0.2	___	m__		
SIND	1.91	8.0	Sg	00:41:57.710	-0.2	___	m__		
GRA1	2.61	30.2	Pn	00:41:37.182	-1.7	___	m_e	ML	2.6
GRA1	2.61	30.2	Sn	00:42:08.613	-0.2	___	m_e		
TNS	2.81	350.2	Pn	00:41:41.785	0.2	___	m_e		
KBA	2.84	96.1	Sg	00:42:25.861	-1.5	___	m_e		
WET	2.97	54.0	Pn	00:41:43.371	-0.4	___	m_e		

GEC2	3.31	63.5	Pn	00:41:48.801	0.4	---	m_e
GEC2	3.31	63.5	Sn	00:42:27.148	1.8	---	m_e

Event 81216003 Sweden

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/16	05:20:01.40			55.5410	13.4100				10.0f							m i uk	NEIC	81216023
2008/12/16	05:20:02.30	0.64	0.31	55.5460	13.8090				10.0f			7	352	5.98	6.67	m i ke	BNS	81216013
2008/12/16	05:20:02.56	0.40		55.6120	13.6240	6.7	3.3	025	16.2	2.9	32	21	191	0.68	7.97	m i ke	BGR	81216003

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MW	4.3		NEIC	81216023
mb	4.8		NEIC	81216023
ML	4.4		NEIC	81216023
ML	4.5		BNS	81216013
ML	5.2	0.2	10 BGR	81216003

Effects	Loctyp	Location	Intensity	Scale	Author
F	Summar		3.0	EMS	BNS

(Felt in Rostock and Ruegen.)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
COP	0.68	276.7	Pg	05:20:16.242	0.6					T__				m_e	ML 4.8
COP	0.68	276.7	Sg	05:20:25.277	0.7					T__				m_e	
BSD	0.89	123.6	Pn	05:20:19.048	-0.7					T__				m_e	ML 5.4
BSD	0.89	123.6	Pg	05:20:19.914	0.4					T__				m_e	
BSD	0.89	123.6	Sn	05:20:31.063	-0.8					T__				m_e	
BSD	0.89	123.6	Sg	05:20:32.768	1.7					T__				m_e	
RGN	1.08	189.4	Pg	05:20:22.323	-0.7					T__				m_e	ML 5.4
RGN	1.08	189.4	Sg	05:20:37.302	0.2					T__				m_e	
BSEG	2.54	230.0	Pn	05:20:42.825	0.7					T__				m_e	ML 5.3
MUD	2.63	290.6	Pn	05:20:44.203	0.9					T__				m_e	
MUD	2.63	290.6	Sg	05:21:25.034	-1.0					T__				m_e	
RUE	3.14	178.3	Pn	05:20:50.920	0.7					T__				m_e	ML 5.2
HLG	3.60	249.0	Pn	05:20:57.533	1.1					T__				m_e	ML 5.0
ASSE	3.89	207.8	Pn	05:21:01.664	1.2					T__				m_e	ML 5.1
CLZ	4.23	208.4	Pn	05:21:05.920	0.8					T__				m_e	ML 5.3
CLZ	4.23	208.4	Sn	05:21:52.522	2.1					T__				m_e	
CLL	4.32	185.2	Pn	05:21:05.954	-0.3					T__				m_e	ML 5.1
CLL	4.32	185.2	Sn	05:21:53.917	1.4					T__				m_e	
BRG	4.74	177.6	Pn	05:21:11.634	-0.4					T__				m_e	ML 5.0
BRG	4.74	177.6	Sn	05:22:03.981	1.5					T__				m_e	
IBBN	4.78	228.6	Pn	05:21:13.539	1.1					T__				m_e	
WIT	4.93	238.3	Pn	05:21:19.577	5.0					T__				mce	
MOX	5.11	194.4	Pn	05:21:15.921	-1.1					T__				m_e	
MOX	5.11	194.4	Sn	05:22:12.342	1.2					T__				m_e	
TANN	5.24	188.1	Pn	05:21:17.845	-1.0					T__				m_e	
BUG	5.62	224.8	Pn	05:21:24.697	0.7					T__				m_e	
BUG	5.62	224.8	Sn	05:22:24.664	1.5					T__				m_e	
ROTZ	5.91	188.9	Pn	05:21:27.191	-0.6					T__				m_e	
HOBG	5.96	221.6	Pn	05:21:30.100	1.6					T__				m_e	



SCE	1.20	100.7	Pg	11:22:43.400	-0.3													mci	ML	2.2
FUR	1.25	44.0	Pg	11:22:44.811	0.3					T								m_e	ML	2.5
FUR	1.25	44.0	Sg	11:23:01.894	1.2					T								m_e		
BUCH	1.25	340.6	P	11:22:44.100														m	ML	2.8
BUCH	1.25	340.6	Pg	11:22:45.020	0.5													m		
BUCH	1.25	340.6	S	11:23:00.940														m		
BUCH	1.25	340.6	Sg	11:23:02.290	1.6													m		
HDH	1.32	6.6	P	11:22:44.500														m	ML	2.6
HDH	1.32	6.6	Pg	11:22:45.740	-0.2													m		
HDH	1.32	6.6	S	11:23:02.300														m		
HDH	1.32	6.6	Sg	11:23:04.430	1.5													m		
TUBL	1.39	334.7	Pg	11:22:47.700	0.6													m	ML	2.8
TUBL	1.39	334.7	Sg	11:23:06.400	1.3													m		
BFO	1.53	314.3	P	11:22:48.090														m	ML	2.5
BFO	1.53	314.3	Pg	11:22:49.694	-0.2					T								m_e		
BFO	1.53	314.3	S	11:23:07.130														m		
BFO	1.53	314.3	Sg	11:23:10.469	0.8					T								m_e		
KIZ	1.55	296.9	P	11:22:49.280														m	ML	2.7
KIZ	1.55	296.9	Pg	11:22:50.500	0.3													m		
KIZ	1.55	296.9	Sg	11:23:11.140	0.9													m		
STU	1.59	341.0	Sg	11:23:12.250	0.8													m	ML	2.7
BBS	1.68	277.4	P	11:22:50.130														m		
BBS	1.68	277.4	Sg	11:23:15.700	1.2													m		
SIND	2.09	353.3	P	11:22:54.940														m	ML	2.5
SIND	2.09	353.3	S	11:23:19.600														m		
ECH	2.12	297.5	P	11:22:55.600														md	ML	2.3
ECH	2.12	297.5	Sg	11:23:27.900	-0.4													m		
LOMF	2.14	273.2	Pg	11:23:01.580	0.3													m		
KBA	2.30	93.6	Pg	11:23:03.582	-0.7					T								m_e		
KBA	2.30	93.6	Sg	11:23:33.928	-0.1					T								m_e		
GRA1	2.55	18.4	Sg	11:23:42.502	0.3					T								m_e	ML	2.7
WET	2.69	44.9	Pn	11:23:03.500	0.2					T								m_e		
WET	2.69	44.9	Sg	11:23:45.414	-1.0					T								m_e		
GEC2	2.94	56.4	Sg	11:23:52.856	-1.6					T								m_e		
MOA	2.95	77.2	Pg	11:23:14.514	-2.1					T								m_e		
MOA	2.95	77.2	Sg	11:23:54.474	-0.2					T								m_e		
MOX	3.54	17.1	Sg	11:24:12.594	-0.8					T								m_e		
TANN	3.54	26.6	Sg	11:24:12.594	-0.9					T								m_e		

Event 81220010 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
2008/12/20	04:48:16.70			51.7800	7.9720				10.0f							m i uk	NEIC	81220050
2008/12/20	04:48:16.90	0.13	0.63	51.8333	8.0634	2.3	2.0	086	1.0f		45	20	283			m i sr	LDG	81220040
2008/12/20	04:48:21.30	0.96	0.41	51.7090	7.7060				1.0f			8	317	0.76	1.56	m i ki	BNS	81220030
2008/12/20	04:48:22.52			51.6270	7.7840				1.0f		22		118	0.37	3.27	m i ki	BGR	81220020
2008/12/20	04:48:20.70			51.6460	7.7720				1.0f				218	0.10	0.37	m i ki	BUG	81220010

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.0		NEIC	81220050
ML	3.0	0.3	22 LDG	81220040



ML	2.6		BNS	81220030
ML	2.6	0.1	7 BGR	81220020
ML	2.6		BUG	81220010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.10	18.7	Pg	04:48:23.800	1.3					T_				m_	ML	2.3
BAHL	0.10	18.7	Sg	04:48:25.600	1.8					T_				m_		
BUG	0.37	236.9	Pg	04:48:28.700	0.9					TA_				mde	ML	2.6
BUG	0.37	236.9	Sg	04:48:34.500	1.9					TA_				m_		
IBBN	0.66	359.3	Pg	04:48:35.551	2.4					---				m_e	ML	2.6
HOBG	0.72	202.6	Pg	04:48:36.080	1.9					---				m_e		
BNS	0.78	208.9	Pg	04:48:36.080	0.7					---				m_e		
STB	1.20	209.4	Pg	04:48:44.300	0.9					---				m_e		
STB	1.20	209.4	Sg	04:49:01.290	2.3					---		97.5	0.51	m_e		
KOE	1.22	181.2	Pg	04:48:44.410	0.7					---				m_e		
KLL	1.36	223.1	Pg	04:48:46.010	-0.2					---				m_e		
GTTG	1.37	93.4	Pg	04:48:47.940	1.5					---				m_e	ML	2.7
DREG	1.38	225.1	Pg	04:48:46.330	-0.3					---				m_e		
BGG	1.47	190.9	Pg	04:48:48.470	0.1					---				m_e		
TNS	1.49	163.1	Pg	04:48:49.527	0.8					---				m_e	ML	2.6
TNS	1.49	163.1	Sg	04:49:09.505	1.6					---				m_e		
HILG	1.52	207.4	Pg	04:48:48.790	-0.5					---				m_e		
CLZ	1.62	82.1	Pn	04:48:50.493	0.9					---				m_e	ML	2.7
CLZ	1.62	82.1	Sg	04:49:14.982	2.8					---				m_e		
UBBA	1.62	119.8	Pn	04:48:51.778	2.1					---				m_e	ML	2.4
UBBA	1.62	119.8	Pg	04:48:52.948	1.7					---				m_e		
ASSE	1.85	73.7	Pg	04:48:57.207	1.6					---				m_e		
WLF	2.23	208.0	Pn	04:48:59.504	1.6					---				m_e		
MOX	2.61	111.0	Pn	04:49:05.169	2.1					---				m_e	ML	2.8
GRA1	2.93	130.4	Pn	04:49:09.317	1.9					---				m_e		
WERD	3.09	111.0	Pn	04:49:11.781	2.2					---				m_e		
WERD	3.09	111.0	Sg	04:49:59.386	0.5					---				m_e		
GUNZ	3.14	112.3	Sg	04:50:03.065	2.5					---				m_e		
TANN	3.20	110.8	Sg	04:50:02.594	0.4					---				m_e		
WERN	3.20	113.3	Pn	04:49:13.294	2.2					---				m_e		
WERN	3.20	113.3	Sg	04:50:04.527	2.1					---				m_e		
CLL	3.27	93.9	Pg	04:49:23.464	1.1					---				m_e		
CLL	3.27	93.9	Sg	04:50:06.156	1.4					---				m_e		

Event 81223001 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/23	00:50:25.40	0.09	0.32	51.5003	6.5808	1.5	1.2	008	1.0f		53	20	238			m i sr	LDG	81223031
2008/12/23	00:50:25.00	1.80	0.51	51.5170	6.5710				0.7	22.4		9	272	0.29	1.31	m i ki	BNS	81223021
2008/12/23	00:50:25.75	0.25	0.82	51.4780	6.6360	4.4	2.2	113	1.0f		20	10	149	0.40	2.35	m i ki	BGR	81223011
2008/12/23	00:50:24.50			51.4550	6.5790				1.0f				263	0.06	0.43	m i ki	BUG	81223001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.9	0.3	22 LDG	81223031
ML	2.4		BNS	81223021
ML	2.6	0.2	6 BGR	81223011

ML 2.4 BUG 81223001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.06	355.4	Pg	00:50:25.100	-0.6					T_				m__	ML 1.9
BRHE	0.06	355.4	Sg	00:50:25.600	-0.8					T_				m__	
LAUG	0.25	114.4	Pg	00:50:30.430	1.2									m_e	
LAUG	0.25	114.4	Sg	00:50:34.520	2.1							330.0	0.50	m_e	
RODG	0.40	218.9	Pg	00:50:33.850	1.8									m_e	
RODG	0.40	218.9	Sg	00:50:40.410	3.3							509.7	0.72	m_e	
BUG	0.43	91.6	Pg	00:50:33.600	1.0					TA_				mce	ML 2.4
BUG	0.43	91.6	Sg	00:50:40.200	2.0					TA_				m__	
WTSB	0.53	14.8	Pg	00:50:34.501	0.0									m_e	
WTSB	0.53	14.8	Sg	00:50:41.411	0.1									m_e	
BNS	0.62	142.5	Pg	00:50:38.150	2.0									m_i	
HOBG	0.67	134.6	Pg	00:50:38.870	1.8									mce	
HGN	0.80	210.7	Pg	00:50:40.991	1.4									m_e	
HGN	0.80	210.7	Sg	00:50:52.648	2.7									m_e	
DREG	0.82	195.5	Pg	00:50:41.462	1.5									m_e	ML 2.6
DREG	0.82	195.5	Sg	00:50:53.812	3.2									m_e	
KLL	0.83	191.9	Pg	00:50:41.480	1.4									m_e	
STB	0.88	169.1	Pg	00:50:43.390	2.4									m_e	
STB	0.88	169.1	Sg	00:50:56.710	4.4							91.1	0.46	m_e	
MEM	0.92	203.3	Pg	00:50:43.159	1.3									m_e	
MEM	0.92	203.3	Sg	00:50:56.996	3.3									m_e	
IBBN	1.12	40.1	Pg	00:50:46.300	0.7									m_e	ML 2.5
IBBN	1.12	40.1	Sg	00:50:59.933	-0.2									m_e	
HILG	1.16	176.9	Pg	00:50:47.610	1.2									m_e	
KOE	1.26	144.4	Pg	00:50:49.450	1.2									m_e	
WIT	1.36	2.3	Pg	00:50:50.777	0.7									m_e	
WIT	1.36	2.3	Sg	00:51:09.529	1.8									m_e	
TNS	1.71	135.5	Pn	00:50:56.857	2.3									m_e	ML 2.6
TNS	1.71	135.5	Pg	00:50:57.992	1.3									m_e	
TNS	1.71	135.5	Sg	00:51:20.313	1.6									m_e	
WLF	1.81	188.8	Pg	00:50:59.852	1.2									m_e	ML 2.6
WLF	1.81	188.8	Sg	00:51:23.006	1.0									m_e	
CLZ	2.39	79.2	Sg	00:51:38.623	-1.6									m_e	ML 2.8

Event 81223003 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/23	15:24:22.40			44.5550	10.4100				28.0f							m i uk	NEIC	81223033
2008/12/23	15:24:23.50	0.42	0.21	44.5580	10.2650				29.0	0.9		9	353	5.98	7.15	m i ke	BNS	81223023
2008/12/23	15:24:26.10	2.50	0.99	44.6800	10.4800	34.0	14.0	337	10.0f		39	27	320	2.73	5.79	m i ke	LED	81223013
2008/12/23	15:24:20.41	0.71	1.13	44.5630	10.3650	12.2	10.0	136	10.0f		27	15	313	3.59	7.28	m i ke	BGR	81223003

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	5.4		NEIC	81223033
ML	5.1		BNS	81223023
ML	5.5	0.2	16 LED	81223013
ML	5.8	0.2	7 BGR	81223003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
OBER	2.84	359.0	P	15:25:08.020						___				mci	ML	5.4
OBER	2.84	359.0	S	15:25:42.350						___				m		
UBR	3.12	356.8	P	15:25:11.250						___				mci	ML	5.3
UBR	3.12	356.8	S	15:25:48.930						___				m		
SISB	3.27	343.2	P	15:25:12.510						___				mci	ML	5.7
SISB	3.27	343.2	S	15:25:50.830						___				m		
BBS	3.51	326.7	P	15:25:15.790						___				mci		
RJOB	3.59	27.1	Pn	15:25:17.519	2.5					T__				m_e	ML	5.7
RJOB	3.59	27.1	Sn	15:26:00.623	6.1					T__				m_e		
GUT	3.61	346.6	P	15:25:16.460						___				mci	ML	5.7
GUT	3.61	346.6	S	15:25:57.330						___				m		
FUR	3.65	9.6	Pn	15:25:17.800	2.0					T__				m_e	ML	6.1
FUR	3.65	9.6	Sn	15:26:00.820	4.9					T__				m_e		
FELD	3.69	334.6	P	15:25:17.770						___				mci		
SPAK	3.70	343.4	P	15:25:17.860						___				mci		
SPAK	3.70	343.4	S	15:26:01.840						___				m		
LOMF	3.72	319.8	P	15:25:19.140						___				mci		
KIZ	3.79	334.4	P	15:25:18.830						___				mci	ML	5.6
KIZ	3.79	334.4	S	15:26:02.160						___				m		
FBB	3.85	334.1	P	15:25:19.850						___				m		
BUCH	3.95	350.2	P	15:25:20.910						___				mce	ML	5.5
BUCH	3.95	350.2	S	15:26:05.980						___				m		
MOF	3.98	326.9	P	15:25:22.000						___				mci		
BFO	4.02	340.3	Pn	15:25:21.961	1.2					T__				m_e	ML	5.8
BFO	4.02	340.3	Sn	15:26:07.614	3.1					T__				m_e		
HDH	4.02	358.5	P	15:25:21.660						___				mce	ML	5.4
HDH	4.02	358.5	S	15:26:07.170						___				m		
TUBL	4.06	347.9	P	15:25:22.530						___				m	ML	5.6
TUBL	4.06	347.9	S	15:26:07.480						___				m		
LIBD	4.06	333.0	P	15:25:23.000						___				mce		
LBG	4.24	345.8	P	15:25:24.770						___				mci	ML	5.5
LBG	4.24	345.8	S	15:26:12.080						___				m		
ECH	4.27	330.0	P	15:25:25.700						___				mci	ML	5.0
ECH	4.27	330.0	S	15:26:14.350						___				m		
STU	4.28	349.6	Pn	15:25:25.815	1.4					T__				m_e	ML	6.1
STU	4.28	349.6	Sn	15:26:12.734	2.0					T__				m_e		
THEF	4.74	322.1	P	15:25:32.980						___				mci		
LANF	4.75	339.3	P	15:25:32.240						___				mce		
SIND	4.81	354.1	P	15:25:31.970						___				mce	ML	5.2
SIND	4.81	354.1	S	15:26:25.870						___				m		
GEC2	4.85	26.9	Pn	15:25:33.259	1.1					T__				m_e	ML	5.6
GEC2	4.85	26.9	Sn	15:26:28.207	4.1					T__				m_e		
WET	4.89	19.7	Pn	15:25:33.719	1.1					T__				m_e	ML	5.5
WET	4.89	19.7	Sn	15:26:28.137	3.1					T__				m_e		
KTD	5.01	342.7	P	15:25:35.880						___				m		
TOD	5.15	348.7	P	15:25:37.420						___				mce		
GRA1	5.16	6.2	Pn	15:25:36.182	-0.1					T__				m_e	ML	6.1
ROTZ	5.35	12.9	Pn	15:25:38.935	0.1					T__				m_e		
ROTZ	5.35	12.9	Sn	15:26:37.945	2.1					T__				m_e		
RUP	5.61	337.6	P	15:25:44.180						___				mce		
ABH	5.65	341.2	P	15:25:44.700						___				mci		
TNS	5.81	347.8	P	15:25:46.770						___				mdi	ML	5.2
TNS	5.81	347.8	Pn	15:25:46.817	1.8					T__				m_e		

TNS	5.81	347.8	S	15:26:48.720															m__	
WLF	5.85	332.2	P	15:25:47.630															m__ ML	4.8
WLF	5.85	332.2	S	15:26:56.000															m__	
WERN	5.88	12.6	Pn	15:25:45.903	-0.2					T__									m_e	
WERN	5.88	12.6	Sn	15:26:52.583	4.3					T__									m_e	
BGG	6.00	341.1	Pn	15:25:49.300	1.6														m_e	
KOE	6.13	344.1	Pn	15:25:50.900	1.5														m_e	
MOX	6.14	7.4	Pn	15:25:49.078	-0.5					T__									m_e	
MOX	6.14	7.4	Sn	15:26:57.573	3.2					T__									m_e	
HILG	6.25	337.8	Pn	15:25:52.700	1.7														m_e	
STB	6.48	339.8	Pn	15:25:56.000	1.8														m_e	
KLL	6.67	337.3	Pn	15:25:58.100	1.4														m_e	
DREG	6.70	337.0	Pn	15:25:59.000	1.8														m_e	
HOBG	6.73	343.5	Pn	15:25:59.600	2.0														m_e	
HOBG	6.73	343.5	Sn	15:27:12.600	4.3														m_e	
BNS	6.75	342.7	Pn	15:25:59.600	1.8														m_e	
BRG	6.75	19.6	Pn	15:25:58.644	0.8					T__									m_e	
BRG	6.75	19.6	Sn	15:27:12.595	3.9					T__									m_e	
CLL	6.97	13.7	Pn	15:26:00.756	-0.1					T__									m_e	
CLL	6.97	13.7	Sn	15:27:17.581	3.7					T__									m_e	
LAUG	7.16	342.6	Pn	15:26:05.600	2.2														m_e	
BUG	7.18	344.4	Pn	15:26:06.101	2.4					T__									m_e	
BUG	7.18	344.4	Sn	15:27:25.435	6.6					T__									m_e	
CLZ	7.28	0.0	Pn	15:26:05.557	0.6					T__									m_e	

Event 81223002 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
2008/12/23	21:18:04.10	0.53	0.21	51.6670	7.6860				1.0	5.8		7	297	0.56	1.48	m i ki	BNS	81223022
2008/12/23	21:18:04.32	0.31	0.74	51.6290	7.7660	4.4	3.3	145	1.0f		15	8	082	0.36	1.63	m i ki	BGR	81223012
2008/12/23	21:18:03.70			51.6340	7.7390				1.0f				210	0.11	0.35	m i ki	BUG	81223002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.6		BNS	81223022
ML	2.0	0.1	5 BGR	81223012
ML	1.9		BUG	81223002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.11	26.5	Pg	21:18:06.200	0.3					T__				m__ ML	1.7
BAHL	0.11	26.5	Sg	21:18:08.200	0.8					T__				m__	
BUG	0.35	236.7	Pg	21:18:11.200	0.9					TA__				mde ML	1.9
BUG	0.35	236.7	Sg	21:18:16.800	2.0					TA__				m__	
LAUG	0.57	240.6	Pg	21:18:14.750	0.3									m_e	
WTSB	0.67	300.1	Pg	21:18:17.711	1.4									m_e	
WTSB	0.67	300.1	Sg	21:18:27.365	2.4									m_e	
IBBN	0.67	1.0	Sg	21:18:25.263	0.2									m_e ML	1.7
HOBG	0.70	201.4	Pg	21:18:17.730	0.9									m_e	
RODG	1.09	243.9	Pg	21:18:24.570	0.3									m_e	
STB	1.18	208.8	Pg	21:18:26.650	0.6									m_e	
KOE	1.21	180.2	Pg	21:18:27.290	0.8									m_e	
DREG	1.35	224.8	Pg	21:18:29.429	0.2									m_e ML	2.0

DREG	1.35	224.8	Sg	21:18:48.483	1.7	---	m_e		
HGN	1.43	233.2	Pg	21:18:30.283	-0.3	---	m_e		
HGN	1.43	233.2	Sg	21:18:49.454	0.4	---	m_e		
BGG	1.45	190.2	Pg	21:18:30.230	-0.8	---	m_e		
TNS	1.48	162.2	Pg	21:18:31.702	0.1	---	m_e	ML	2.0
TNS	1.48	162.2	Sg	21:18:51.917	1.2	---	m_e		
MEM	1.49	227.4	Pg	21:18:31.936	0.1	---	m_e		
MEM	1.49	227.4	Sg	21:18:51.855	0.7	---	m_e		
CLZ	1.64	81.7	Pg	21:18:34.738	0.1	---	m_e	ML	2.1
CLZ	1.64	81.7	Sg	21:18:56.928	1.0	---	m_e		

Event 81223004 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/23	21:58:25.00			44.5210	10.3920				31.0							m i uk	NEIC	81223024
2008/12/23	21:58:28.20	0.43	0.21	44.5780	10.2700				20.0f			9	353	5.97	7.13	m i ke	BNS	81223014
2008/12/23	21:58:25.85	0.70	1.26	44.5980	10.3930	13.3	11.1	132	10.0f		28	15	313	3.55	7.24	m i ke	BGR	81223004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	5.1		NEIC	81223024
ML	4.9		BNS	81223014
ML	5.4	0.3	7 BGR	81223004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
RJOB	3.55	27.1	Pn	21:59:22.574	2.7					T_				m_e	ML 5.5
RJOB	3.55	27.1	Sn	22:00:05.928	7.0					T_				m_e	
FUR	3.62	9.4	Pn	21:59:22.756	2.0					T_				m_e	ML 5.6
FUR	3.62	9.4	Sn	22:00:05.282	4.8					T_				m_e	
BFO	3.99	339.9	Pn	21:59:26.987	1.1					T_				m_e	ML 5.3
BFO	3.99	339.9	Sn	22:00:11.106	1.8					T_				m_e	
STU	4.25	349.3	Pn	21:59:30.834	1.4					T_				m_e	ML 5.7
STU	4.25	349.3	Sn	22:00:18.448	3.0					T_				m_e	
GEC2	4.81	26.9	Pn	21:59:38.036	1.0					T_				m_e	ML 5.2
GEC2	4.81	26.9	Sn	22:00:31.635	3.0					T_				m_e	
WET	4.85	19.6	Pn	21:59:38.472	0.9					T_				m_e	ML 5.1
WET	4.85	19.6	Sn	22:00:32.139	2.6					T_				m_e	
GRA1	5.13	6.0	Pn	21:59:41.108	-0.1					T_				m_e	ML 5.8
GRA1	5.13	6.0	Sn	22:00:39.114	3.2					T_				m_e	
ROTZ	5.31	12.8	Pn	21:59:43.865	0.1					T_				m_e	
ROTZ	5.31	12.8	Sn	22:00:42.793	2.4					T_				m_e	
TNS	5.78	347.5	Pn	21:59:51.740	1.7					T_				m_e	
WERN	5.84	12.5	Pn	21:59:50.884	-0.1					T_				m_e	
WERN	5.84	12.5	Sn	22:00:56.354	3.5					T_				m_e	
BGG	5.98	340.9	Pn	21:59:54.500	1.7					---				m_e	
KOE	6.10	343.8	Pn	21:59:56.100	1.7					---				m_e	
MOX	6.10	7.3	Pn	21:59:54.056	-0.4					T_				m_e	
MOX	6.10	7.3	Sn	22:01:02.241	3.3					T_				m_e	
HILG	6.22	337.5	Pn	21:59:57.900	1.8					---				m_e	
STB	6.46	339.5	Pn	22:00:01.000	1.7					---				m_e	
KLL	6.64	337.0	Pn	22:00:03.400	1.6					---				m_e	
DREG	6.68	336.7	Pn	22:00:04.000	1.7					---				m_e	



WIT	1.32	2.2	Sg	13:54:02.735	3.0	---	m_e	
BGG	1.38	159.6	Pg	13:53:44.210	0.4	---	m_e	
TNS	1.73	136.7	Pn	13:53:48.987	0.6	---	m_e ML	2.7
TNS	1.73	136.7	Pg	13:53:51.386	0.8	---	m_e	
TNS	1.73	136.7	Sg	13:54:13.522	0.5	---	m_e	
WLF	1.86	188.7	Pn	13:53:51.519	1.5	---	m_e ML	2.9
WLF	1.86	188.7	Pg	13:53:53.444	0.6	---	m_e	
WLF	1.86	188.7	Sg	13:54:16.124	-0.7	---	m_e	
CLZ	2.37	80.2	Pn	13:53:57.289	0.3	---	m_e ML	2.9
CLZ	2.37	80.2	Sg	13:54:33.562	0.3	---	m_e	

Event 81225012 Muellheim/Upper Rhine Graben, NE of Mulhouse/F

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/25	17:50:28.40			47.9000	7.6000				5.0							m i uk	SED	81225042
2008/12/25	17:50:28.70	0.04	0.45	47.8962	7.5303	0.9	0.7	155	4.0f		55	20	035			m i ke	LDG	81225032
2008/12/25	17:50:27.36	0.72	0.99	47.8380	7.5060	10.0	4.4	031	10.0f		10	7	221	0.44	2.85	m i ke	BGR	81225022
2008/12/25	17:50:28.69	0.09	0.19	47.9100	7.5560	1.1	0.9	011	8.0	2.0	26	13	081	0.22	1.98	m i ke	LED	81225012

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1		SED	81225042
MD	3.1	0.1	2 LDG	81225032
ML	2.7	0.4	18 LDG	81225032
ML	2.1	0.2	4 BGR	81225022
ML	2.2	0.1	11 LED	81225012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
FBB	0.22	65.2	P*	17:50:33.290						T__				m__	
FBB	0.22	65.2	S*	17:50:36.880						T__				m__	
LIBD	0.24	7.4	P*	17:50:34.140						T__				mdi	
LIBD	0.24	7.4	S*	17:50:38.120						T__				m__	
KIZ	0.25	79.1	P*	17:50:33.600						T__				mci ML	1.5
KIZ	0.25	79.1	S*	17:50:37.020						T__				m_e	
MOF	0.29	258.5	P*	17:50:34.490						T__				mci	
MOF	0.29	258.5	S*	17:50:38.650						T__				m__	
FELD	0.30	96.2	P*	17:50:34.710						T__				mde	
ECH	0.41	319.2	P*	17:50:36.500						T__				mdi	
ECH	0.41	319.2	S*	17:50:41.750						T__				m__	
ECH	0.41	319.2	SmS	17:50:45.950	-2.4					T__				m__	
BBS	0.45	184.1	P*	17:50:37.410						T__				mdi	
BFO	0.67	50.6	P*	17:50:41.740						T__				m__ ML	2.2
BFO	0.67	50.6	PmP	17:50:42.480	-1.5					T__				m__	
BFO	0.67	50.6	Sg	17:50:51.849	1.9					---				m_e	
BFO	0.67	50.6	SmS	17:50:52.800	-1.7					T__				m__	
LOMF	0.74	221.6	P*	17:50:42.820						T__				m__	
SPAK	0.84	76.4	Pg	17:50:45.410	0.7					---				m__	
SISB	0.97	102.8	Pg	17:50:47.870	0.8					T__				mdi ML	2.4
SISB	0.97	102.8	Sg	17:51:00.960	1.3					T__				m__	
GUT	1.06	80.7	Pn	17:50:48.300	-0.8					T__				m__ ML	2.0
GUT	1.06	80.7	Pg	17:50:49.220	0.6					T__				mci	
THEF	1.09	287.5	Pg	17:50:49.290	-0.0					T__				m__	

LBG	1.12	47.1	Pn	17:50:48.670	-1.3	T__	m__	ML	2.2
LBG	1.12	47.1	Sg	17:51:05.470	1.2	T__	m__		
TUBL	1.19	58.4	Pg	17:50:51.760	0.6	---	m__	ML	2.1
BUCH	1.31	65.1	Pg	17:50:53.900	0.4	---	m__	ML	2.3
BUCH	1.31	65.1	Sg	17:51:11.710	1.2	T__	m__		
STU	1.39	51.0	Sg	17:51:13.126	0.3	---	m_e	ML	2.2
DAVA	1.69	110.8	Sg	17:51:19.315	-3.0	---	m_e	ML	2.2
UBR	1.73	96.7	Sg	17:51:25.020	1.3	---	m__	ML	2.2
HDH	1.89	68.1	Sg	17:51:28.720	-0.0	---	m__	ML	2.2
SIND	1.98	42.5	Sn	17:51:24.590	-0.5	---	m__	ML	2.2
WLF	1.98	332.7	Pg	17:51:06.035	-0.1	---	m_e	ML	2.2
WLF	1.98	332.7	Sg	17:51:31.490	-0.3	---	m__		
TNS	2.38	13.8	Sg	17:51:45.234	0.7	---	m_e		
WTTA	2.83	101.7	Sg	17:51:59.772	1.3	---	m_e		

Event 81225013 Saulgau, SW of Ulm

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/25	19:21:54.20			48.0490	9.4880				10.0f							m i uk	NEIC	81225053
2008/12/25	19:21:55.50	0.08	0.58	48.0259	9.4825	1.5	1.2	074	10.0	0.0	79	21	046			m i ke	LDG	81225043
2008/12/25	19:21:54.76	0.15	0.38	48.0262	9.5658	1.1	0.9	081	4.4	1.6	37	8	285			m i uk	ZAMG	81225033
2008/12/25	19:21:55.38	0.21	0.90	48.0690	9.5400	3.3	2.2	025	10.0f		40	18	112	0.74	3.17	m i ke	BGR	81225023
2008/12/25	19:21:54.99	0.17	0.39	48.0280	9.5150	2.4	1.9	042	12.0	3.0	33	16	091	0.27	2.75	m i ke	LED	81225013

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.8		NEIC	81225053
MD	3.3	0.1	2 LDG	81225043
ML	3.0	0.3	22 LDG	81225043
ML	3.1	0.3	13 ZAMG	81225033
ML	2.8	0.2	17 BGR	81225023
ML	3.0	0.3	15 LED	81225013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GUT	0.27	279.3	P*	19:22:00.480						T__				mci	ML 3.2
GUT	0.27	279.3	S*	19:22:04.460						T__				m_i	
BUCH	0.44	345.7	P*	19:22:03.570						T__				mdi	ML 2.4
BUCH	0.44	345.7	S*	19:22:09.870						T__				m_i	
BUCH	0.44	345.7	SmS	19:22:14.530	0.1					---				m__	
SPAK	0.49	278.9	P*	19:22:04.760						T__				mci	
SPAK	0.49	278.9	S*	19:22:11.310						T__				m_i	
SISB	0.50	227.4	P*	19:22:04.880						T__				mci	ML 2.8
SISB	0.50	227.4	S*	19:22:11.900						T__				m__	
SISB	0.50	227.4	SmS	19:22:15.310	-0.7					T__				m__	
UBR	0.53	130.9	P*	19:22:05.550						T__				mdi	ML 2.8
UBR	0.53	130.9	PmP	19:22:08.100	0.3					T__				m__	
UBR	0.53	130.9	S*	19:22:13.180						T__				m_i	
UBR	0.53	130.9	SmS	19:22:15.810	-0.9					T__				m__	
TUBL	0.57	330.0	P*	19:22:06.280						T__				mde	ML 2.7
TUBL	0.57	330.0	PmP	19:22:08.440	-0.1					T__				m__	
TUBL	0.57	330.0	S*	19:22:14.040						T__				m__	
TUBL	0.57	330.0	SmS	19:22:17.510	-0.3					T__				m__	



HDH	0.72	39.3	Pn	19:22:08.700	-1.7	T__	mci	ML	3.2
HDH	0.72	39.3	S*	19:22:18.300		T__	m__		
STU	0.77	344.1	Pn	19:22:09.700	-1.4	T__	mde	ML	2.9
STU	0.77	344.1	Sg	19:22:20.049	0.3	---	m_e		
DAVA	0.78	161.5	Pg	19:22:10.306	0.5	---	m_e	ML	2.5
DAVA	0.78	161.5	Sg	19:22:21.695	1.7	---	m_e		
LBG	0.80	323.3	Pn	19:22:10.180	-1.3	T__	mdi	ML	3.0
LBG	0.80	323.3	S*	19:22:20.800		T__	m__		
OBER	0.81	139.6	Pn	19:22:10.830	-0.8	T__	mde	ML	3.4
BFO	0.85	291.4	Pn	19:22:11.110	-1.0	T__	mci	ML	3.3
BFO	0.85	291.4	Pg	19:22:11.850	0.8	T__	m_e		
BFO	0.85	291.4	S	19:22:21.690		T__	m__		
NORI	1.01	46.4	Pg	19:22:14.000	-0.2	---	mci	ML	2.9
NORI	1.01	46.4	Sg	19:22:27.800	0.5	---	mci		
FELD	1.02	262.0	Pn	19:22:14.370	-0.2	T__	mce		
KIZ	1.07	266.7	Pn	19:22:14.930	-0.2	T__	mde	ML	3.1
KIZ	1.07	266.7	S	19:22:28.620		T__	m__		
FBB	1.11	269.3	Pg	19:22:16.340	0.3	T__	m__		
FUR	1.18	82.8	Pg	19:22:17.693	0.3	---	m_e	ML	3.0
FUR	1.18	82.8	Sg	19:22:34.360	1.6	---	m_e		
LIBD	1.28	276.2	Pg	19:22:19.860	0.6	T__	m__		
SIND	1.32	2.6	Pn	19:22:17.920	-0.6	T__	m__	ML	3.0
SIND	1.32	2.6	Sn	19:22:34.350	-0.9	T__	m__		
BBS	1.46	248.1	Pn	19:22:20.110	-0.4	---	mci		
BBS	1.46	248.1	Pg	19:22:23.070	0.5	---	mdi		
LANF	1.48	310.7	Pg	19:22:23.230	0.3	---	m__		
ECH	1.58	277.7	Sg	19:22:45.009	-0.4	---	m_e		
MOF	1.61	264.6	Pg	19:22:22.560	-2.8	---	m__		
MOF	1.61	264.6	Sg	19:22:48.650	2.5	---	m__		
WTTA	1.62	117.3	Pg	19:22:25.742	0.1	---	m_e	ML	2.5
WTTA	1.62	117.3	Sg	19:22:46.971	0.4	---	m_e		
TOD	1.65	343.7	Pg	19:22:25.310	-0.8	---	m__		
LOMF	1.93	250.5	Pg	19:22:31.650	0.2	---	m__		
GRA1	2.01	33.4	Pg	19:22:32.805	-0.1	---	m_e	ML	3.0
GRA1	2.01	33.4	Sg	19:22:57.363	-1.5	---	m_e		
RJOB	2.22	96.3	Pn	19:22:33.118	2.4	---	m_e	ML	2.8
RJOB	2.22	96.3	Sg	19:23:06.016	0.4	---	m_e		
ABH	2.26	325.9	Pg	19:22:37.760	0.1	---	m__		
TNS	2.30	342.7	Pn	19:22:32.557	0.7	---	m_e	ML	2.7
TNS	2.30	342.7	Pg	19:22:39.803	1.4	---	m_e		
TNS	2.30	342.7	Sg	19:23:09.349	1.1	---	m_e		
RUP	2.33	316.9	Pg	19:22:37.940	-0.9	---	m__		
THEF	2.36	276.2	Pg	19:22:39.420	-0.1	---	m__		
ROTZ	2.48	44.5	Pg	19:22:41.370	-0.4	---	m_e	ML	2.7
ROTZ	2.48	44.5	Sg	19:23:12.255	-1.6	---	m_e		
WET	2.49	62.1	Pn	19:22:34.826	0.4	---	m_e	ML	2.8
WET	2.49	62.1	Pg	19:22:41.678	-0.3	---	m_e		
WET	2.49	62.1	Sg	19:23:12.539	-1.6	---	m_e		
WLF	2.75	307.7	Pg	19:22:47.183	0.3	---	m_e	ML	2.4
WLF	2.75	307.7	Sg	19:23:21.740	-0.7	---	m__		
KBA	2.75	108.8	Pg	19:22:47.556	0.6	---	m_e	ML	2.7
KBA	2.75	108.8	Sg	19:23:21.253	-1.3	---	m_e		
UBBA	2.81	6.3	Pg	19:22:47.212	-0.8	---	m_e	ML	2.8
UBBA	2.81	6.3	Sg	19:23:22.482	-1.8	---	m_e		

GEC2	2.89	72.0	Pn	19:22:40.881	1.0	---	m_e	ML	2.8
GEC2	2.89	72.0	Pg	19:22:48.608	-1.0	---	m_e		
GEC2	2.89	72.0	Sg	19:23:26.691	-0.3	---	m_e		
MOX	2.95	26.8	Pg	19:22:50.426	-0.2	---	m_e	ML	3.1
MOX	2.95	26.8	Sg	19:23:26.561	-2.3	---	m_e		
WERD	3.03	35.9	Pg	19:22:51.429	-0.7	---	m_e	ML	3.2
WERD	3.03	35.9	Sg	19:23:29.460	-1.8	---	m_e		
MOA	3.19	91.4	Pn	19:22:46.010	2.1	---	m_e	ML	3.0
MOA	3.19	91.4	Pg	19:22:54.963	-0.1	---	m_e		
MOA	3.19	91.4	Sg	19:23:35.700	-0.6	---	m_e		

Event 945315 Weinfeld, Kreuzlingen/CH (Thurgau)

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/27	12:41:15.10	0.20	0.29	47.4500	9.2000	2.0	2.0	017	7.0	3.0	24	14	132	0.20	1.24	m i ke	LED	945345

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.1	12 LED	945345

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WILA	0.20	260.0	P*	12:41:19.150						T_				mci	ML 2.3
WILA	0.20	260.0	S*	12:41:22.750						T_				m_i	
SLE	0.57	303.8	P*	12:41:25.930						T_				mde	ML 1.8
SLE	0.57	303.8	S*	12:41:33.710						T_				m_	
SLE	0.57	303.8	SmS	12:41:37.600	-1.1					T_				m_	
GUT	0.62	354.8	P*	12:41:26.800						T_				mdi	ML 2.1
GUT	0.62	354.8	S*	12:41:35.630						T_				m_i	
GUT	0.62	354.8	SmS	12:41:39.410	-0.6					T_				m_i	
UBR	0.65	69.0	P*	12:41:27.900						T_				mci	ML 2.0
UBR	0.65	69.0	PmP	12:41:30.300	-0.1					T_				m_	
UBR	0.65	69.0	S*	12:41:37.380						T_				m_	
SPAK	0.71	337.0	P*	12:41:30.080						---				m_	
SULZ	0.74	276.5	P*	12:41:29.880						---				m_	ML 2.0
SULZ	0.74	276.5	PmP	12:41:31.050	-0.6					T_				m_	
SULZ	0.74	276.5	SmS	12:41:42.350	-0.7					T_				m_i	
OBER	0.74	92.9	SmS	12:41:44.330	1.2					T_				m_	ML 2.2
FELD	0.91	298.3	Pg	12:41:32.900	0.6					T_				m_	
KIZ	1.00	300.9	P*	12:41:34.030						T_				m_	ML 2.1
BUCH	1.00	5.8	Pg	12:41:34.700	0.6					T_				mci	ML 2.4
BFO	1.06	326.8	Pg	12:41:35.360	0.3					T_				mci	ML 2.3
BFO	1.06	326.8	Sg	12:41:49.830	1.1					T_				m_	
TUBL	1.08	355.9	Pg	12:41:35.550	0.1					T_				m_	ML 2.1
BBS	1.14	271.3	Pg	12:41:37.180	0.5					T_				m_	
LBG	1.24	347.6	Pg	12:41:38.370	-0.2					T_				m_	ML 2.1
LIEN	1.24	347.6	P*	12:41:20.230						T_				mde	ML 1.8
LIEN	1.24	347.6	S*	12:41:24.570						T_				m_i	

Event 81227003 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
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2008/12/27 18:07:53.27 0.45 0.83 51.4940 16.1370 7.8 3.3 011 1.0f 22 16 199 0.66 3.60 m i ki BGR 81227033

Magnitude Err Nsta Author OrigID  
ML 3.1 0.4 15 BGR 81227033

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.66	171.4	Pg	18:08:05.408	-0.3					T__				m_e	ML 2.5
KSP	0.66	171.4	Sg	18:08:14.624	0.4					T__				m_e	
DPC	1.15	174.1	Pg	18:08:14.231	-0.7					T__				m_e	ML 2.8
BRG	1.51	246.6	Pn	18:08:21.225	0.5					T__				m_e	ML 3.1
BRG	1.51	246.6	Sg	18:08:41.787	0.6					T__				m_e	
FBE	1.84	252.9	Pn	18:08:26.890	1.8					T__				m_e	ML 2.3
FBE	1.84	252.9	Sg	18:08:51.669	0.1					T__				m_e	
MORC	1.93	152.0	Pn	18:08:25.484	-1.0					T__				m_e	ML 2.8
CLL	1.96	265.8	Pn	18:08:25.491	-1.4					T__				m_e	ML 2.9
OKC	2.09	141.7	Pn	18:08:30.411	1.9					T__				m_e	ML 3.1
TANN	2.55	246.4	Pn	18:08:34.686	-0.2					T__				m_e	ML 3.3
TANN	2.55	246.4	Sg	18:09:13.476	-0.9					T__				m_e	
WERD	2.63	248.0	Pn	18:08:35.630	-0.2					T__				m_e	ML 3.2
OJC	2.64	117.4	Pn	18:08:34.698	-1.3					T__				m_e	ML 3.3
OJC	2.64	117.4	Sg	18:09:17.118	0.0					T__				m_e	
MOX	2.96	255.1	Pg	18:08:48.459	-0.7					T__				m_e	ML 3.6
MOX	2.96	255.1	Sg	18:09:27.756	0.3					T__				m_e	
ROTZ	3.03	236.8	Pn	18:08:41.688	0.4					T__				m_e	ML 3.1
GEC2	3.07	211.4	Pn	18:08:42.239	0.3					T__				m_e	ML 3.3
WET	3.14	222.8	Pn	18:08:42.858	0.1					T__				m_e	
CLZ	3.59	277.8	Pn	18:08:49.169	0.3					T__				m_e	ML 3.3
GRA1	3.60	241.9	Pn	18:08:49.287	0.2					T__				m_e	ML 3.8

Event 81229003 Gurktaler Alps/A, NW of St. Veit

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/29	04:10:09.40	0.35	1.42	46.8930	14.3240	6.7	5.6	169	10.0f		21	13	121	0.41	4.50	m i ke	BGR	81229013
2008/12/29	04:10:07.27	0.11	0.41	46.8585	14.2806	1.0	0.8	176	8.8	1.7	40	12	090			m i fe	ZAMG	81229003

(#PRIME)

Magnitude Err Nsta Author OrigID  
ML 2.6 0.4 8 BGR 81229013  
ML 3.1 0.2 14 ZAMG 81229003

Effects Loctyp Location Intensity Scale Author  
F Summar 4.0- 5.0 EMS ZAMG  
(Felt.)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OBKA	0.39	152.1	Pg	04:10:15.713	0.9					---				m_e	ML 2.6
KBA	0.68	289.3	Pg	04:10:20.882	0.8					---				m_e	ML 2.6
KBA	0.68	289.3	Sg	04:10:29.824	0.9					---				m_e	
ARSA	0.93	64.7	Pg	04:10:25.168	0.3					---				m_e	ML 2.2
ARSA	0.93	64.7	Sg	04:10:37.475	0.5					---				m_e	
MOA	0.99	359.4	Pg	04:10:26.786	0.8					---				m_e	ML 2.1
BGLD	1.17	313.2	Pg	04:10:29.500	0.1					---				mci	ML 2.9

BGLD	1.17	313.2	Sg	04:10:45.900	1.3	---	mci												
SCE	1.76	276.8	Pn	04:10:40.400	3.2	---	mdi	ML											2.6
WTTA	1.85	283.6	Pn	04:10:41.934	3.6	---	m_e	ML											2.7
GEC2	2.02	349.1	Pn	04:10:43.662	2.9	---	m_e	ML											2.8
GEC2	2.02	349.1	Sg	04:11:12.692	1.1	---	m_e												
WET	2.47	338.2	Pn	04:10:50.938	4.1	---	m_e	ML											2.7
WET	2.47	338.2	Sg	04:11:26.609	0.8	---	m_e												
DAVA	3.03	279.7	Pn	04:10:58.627	4.3	---	m_e	ML											3.4
DAVA	3.03	279.7	Sg	04:11:46.288	2.8	---	m_e												
TANN	3.75	342.0	Pn	04:11:07.907	3.7	---	m_e												
TANN	3.75	342.0	Pg	04:11:18.683	0.7	---	m_e												
BRG	4.02	357.0	Pg	04:11:23.536	0.5	---	m_e												
BRG	4.02	357.0	Sg	04:12:15.757	0.7	---	m_e												
MOX	4.17	336.1	Pn	04:11:13.277	3.4	---	m_e												
BFO	4.27	292.3	Pn	04:11:14.682	3.4	---	m_e												
BFO	4.27	292.3	Pg	04:11:28.862	1.0	---	m_e												
CLL	4.53	349.8	Sg	04:12:31.839	0.7	---	m_e												

Event 81229008 Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2008/12/29	19:51:44.10	0.06	0.35	47.1346	9.5017	1.1	1.0	142	5.0f		43	11	075			m i ke	LDG	81229038
2008/12/29	19:51:43.20			47.2000	9.5000				5.0							m i uk	SED	81229028
2008/12/29	19:51:43.10	0.31	0.35	47.1562	9.5247	1.5	0.9	106	8.9	3.4	19	4	322			m i uk	ZAMG	81229018
2008/12/29	19:51:43.87	0.80	0.86	47.1270	9.4780	10.0	4.4	028	10.0f		15	8	238	0.32	3.31	m i ke	BGR	81229008

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.2	11 LDG	81229038
ML	2.1		SED	81229028
ML	2.3	0.7	6 ZAMG	81229018
ML	2.1	0.2	5 BGR	81229008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
DAVA	0.32	59.6	Pg	19:51:48.907	-1.2					T_				m_e	ML 2.0
DAVA	0.32	59.6	Sg	19:51:53.658	-0.7					T_				m_e	
BFO	1.43	327.7	Pg	19:52:11.136	0.3					T_				m_e	ML 1.8
BFO	1.43	327.7	Sg	19:52:29.891	0.5					T_				m_e	
WTTA	1.47	83.9	Pg	19:52:12.142	0.5					T_				m_e	ML 2.1
WTTA	1.47	83.9	Sg	19:52:32.329	1.6					T_				m_e	
FUR	1.59	48.8	Pg	19:52:13.310	-0.6					T_				m_e	
FUR	1.59	48.8	Sg	19:52:34.638	0.1					T_				m_e	
STU	1.65	353.5	Sg	19:52:36.137	-0.4					T_				m_e	ML 2.1
KBA	2.63	89.6	Pg	19:52:32.958	-0.5					T_				m_e	
KBA	2.63	89.6	Sg	19:53:07.070	-0.5					T_				m_e	
WET	3.04	47.1	Pn	19:52:30.777	-0.1					T_				m_e	ML 2.5
WET	3.04	47.1	Sn	19:53:04.309	-0.5					T_				m_e	
GEC2	3.31	57.2	Pg	19:52:45.907	-0.3					T_				m_e	
GEC2	3.31	57.2	Sn	19:53:13.231	2.0					T_				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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