

DATA\_TYPE BULLETIN IMS1.0

BGR Bulletin for Germany and adjacent areas

Event 105007 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/05	20:15:57.80	0.50	0.21	51.7120	7.8570				1.0f			6	319	0.67	1.54	m i ki	BNS	105027
2010/01/05	20:15:59.51	0.39	0.57	51.6310	7.7830	5.6	3.3	151	1.0f		12	7	120	0.37	1.62	m i ki	BGR	105017
2010/01/05	20:15:57.50			51.6580	7.7820				1.0f				218	0.08	0.39	m i ki	BUG	105007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9		BNS	105027
ML	2.1	0.1	7 BGR	105017
ML	1.8		BUG	105007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.08	17.3	Pg	20:16:00.800	1.7					T_				m_e	ML 2.0
BAHL	0.08	17.3	Sg	20:16:02.700	2.6					T_				m_e	
BUG	0.39	235.9	Pg	20:16:05.800	1.0					TA_				m_e	ML 1.8
BUG	0.39	235.9	Sg	20:16:11.800	2.0					TA_				m_e	
LAUG	0.61	239.8	Pg	20:16:10.300	1.4									m_e	
IBBN	0.65	358.8	Pg	20:16:12.520	2.8									m_e	ML 2.1
HOBG	0.73	202.7	Pg	20:16:12.720	1.5									m_e	
BNS	0.79	208.9	Sg	20:16:26.420	3.8									m_e	
AHRW	1.20	201.9	Pg	20:16:21.402	1.2									m_e	ML 2.0
AHRW	1.20	201.9	Sg	20:16:38.298	2.6									m_e	
STB	1.22	209.4	Pg	20:16:21.350	0.9									m_e	
STB	1.22	209.4	Sg	20:16:38.390	2.2							19.1	0.40	m_e	
KOE	1.23	181.5	Pg	20:16:21.580	0.8									m_e	
GTTG	1.36	93.9	Pg	20:16:24.847	1.7									m_e	ML 2.3
GTTG	1.36	93.9	Sg	20:16:43.395	2.7									m_e	
KLL	1.37	222.9	Pg	20:16:23.430	0.1									m_e	
DREG	1.39	224.9	Pg	20:16:24.000	0.3									m_e	
BGG	1.48	191.1	Pg	20:16:25.150	-0.2									m_e	
TNS	1.50	163.5	Pg	20:16:26.414	0.7									m_e	ML 2.1
TNS	1.50	163.5	Sg	20:16:45.958	1.0									m_e	
CLZ	1.61	82.5	Pg	20:16:30.382	2.5									m_e	ML 2.1
CLZ	1.61	82.5	Sg	20:16:51.078	2.3									m_e	
UBBA	1.62	120.3	Pg	20:16:29.732	1.6									m_e	ML 1.9

Event 109002 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/09	04:55:38.08	0.39	0.86	51.4700	16.1230	5.6	3.3	016	1.0f		26	16	199	0.64	3.59	m i ki	BGR	109002

Magnitude	Err	Nsta	Author	OrigID
ML	3.3	0.4	15 BGR	109002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.64	170.3	Pg	04:55:49.936	-0.1					T_				m_e	ML 2.8
KSP	0.64	170.3	Sg	04:55:58.659	0.4					T_				m_e	
DPC	1.13	173.5	Pg	04:55:58.787	-0.5					T_				m_e	ML 3.6

DPC	1.13	173.5	Sg	04:56:14.675	0.8	T__	m_e		
BRG	1.49	247.3	Pn	04:56:04.124	-1.1	T__	m_e ML	3.3	
BRG	1.49	247.3	Sg	04:56:25.570	0.1	T__	m_e		
FBE	1.82	253.5	Pn	04:56:09.720	0.0	T__	m_e ML	2.4	
FBE	1.82	253.5	Sg	04:56:35.432	-0.5	T__	m_e		
MORC	1.92	151.4	Pn	04:56:10.638	-0.4	T__	m_e ML	3.0	
CLL	1.95	266.5	Pn	04:56:10.637	-0.9	T__	m_e ML	3.3	
CLL	1.95	266.5	Sg	04:56:40.058	-0.1	T__	m_e		
OKC	2.08	141.0	Pn	04:56:12.480	-0.7	T__	m_e ML	3.4	
OKC	2.08	141.0	Sg	04:56:43.003	-1.0	T__	m_e		
TANN	2.54	246.9	Pn	04:56:19.337	-0.1	T__	m_e ML	3.4	
WERD	2.61	248.5	Pn	04:56:20.485	0.0	T__	m_e ML	3.5	
OJC	2.64	116.9	Pn	04:56:19.114	-1.7	T__	m_e ML	3.5	
OJC	2.64	116.9	Sg	04:57:03.723	1.9	T__	m_e		
MANZ	2.94	241.3	Pn	04:56:25.247	0.3	T__	m_e		
MANZ	2.94	241.3	Sg	04:57:12.684	1.1	T__	m_e		
ROTZ	3.01	237.1	Pn	04:56:26.074	0.2	T__	m_e ML	2.7	
GEC2	3.05	211.5	Pn	04:56:26.489	0.1	T__	m_e ML	3.5	
GEC2	3.05	211.5	Sg	04:57:13.875	-1.1	T__	m_e		
WET	3.11	223.0	Pn	04:56:29.270	2.0	T__	m_e ML	3.3	
GRA1	3.58	242.2	Pn	04:56:34.286	0.7	T__	m_e ML	3.9	
GRA1	3.58	242.2	Sg	04:57:32.252	0.3	T__	m_e		
CLZ	3.59	278.2	Pn	04:56:34.313	0.7	T__	m_e ML	3.6	

Event 112003 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/12	02:55:55.70	0.47	0.21	51.6430	7.6010				1.0f			7	312	0.50	1.47	m i k i	BNS	112023
2010/01/12	02:55:55.59	0.38	0.75	51.6180	7.7460	5.6	4.4	159	1.0f		10	5	140	0.35	1.64	m i k i	BGR	112013
2010/01/12	02:55:53.20			51.6250	7.7900				1.0f				230	0.11	0.37	m i k i	BUG	112003

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.5		BNS	112023
ML	2.0	0.1	3 BGR	112013
ML	1.8		BUG	112003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.11	9.9	Pg	02:55:56.300	1.0					T__				m__ ML	1.9
BAHL	0.11	9.9	Sg	02:55:58.200	1.4					T__				m__	
BUG	0.37	240.6	Pg	02:56:01.200	1.0					TA__				m_e ML	1.8
BUG	0.37	240.6	Sg	02:56:07.000	2.0					TA__				m__	
LAUG	0.59	242.9	Pg	02:56:05.350	1.0					___				m_e	
WTSB	0.70	299.5	Pg	02:56:08.209	1.8					___				m_e	
WTSB	0.70	299.5	Sg	02:56:18.306	2.8					___				m_e	
HOBG	0.70	204.1	Pg	02:56:08.650	2.2					___				m_e	
AHRW	1.17	202.8	Pg	02:56:17.032	1.7					___				m_e ML	2.0
AHRW	1.17	202.8	Sg	02:56:33.769	3.3					___				m_e	
STB	1.19	210.4	Pg	02:56:16.830	1.2					___				m_e	
STB	1.19	210.4	Sg	02:56:32.960	1.9					___		14.1	0.34	m_e	
KLL	1.35	224.1	Pg	02:56:18.760	0.1					___				m_e	
DREG	1.37	226.0	Pg	02:56:19.780	0.7					___				m_e	

BGG	1.45	191.6	Pg	02:56:21.260	0.8	---	m_e
HGN	1.45	234.2	Pn	02:56:20.975	1.2	---	m_e
HGN	1.45	234.2	Sg	02:56:40.205	1.0	---	m_e
HILG	1.51	208.1	Pg	02:56:21.940	0.4	---	m_e
CLZ	1.61	81.3	Pn	02:56:24.360	2.3	---	m_e ML 2.0
CLZ	1.61	81.3	Sg	02:56:48.426	4.0	---	m_e

Event 112004 Emmendingen/Upper Rhine Graben, N of Freiburg

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/12	04:44:42.00	0.04	0.69	48.1865	7.7876	1.0	0.8	168	11.8	0.6	38	13	039			m i ke	LDG	112024
2010/01/12	04:44:42.22	0.42	0.64	48.2210	7.7780	5.6	3.3	005	10.0f		10	6	155	0.38	2.70	m i ke	BGR	112014
2010/01/12	04:44:42.03	0.15	0.26	48.1930	7.7900	1.7	1.2	322	9.0	3.0	31	17	128	0.13	2.07	m i ke	LED	112004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	2.5	0.0	2 LDG	112024
ML	2.3	0.2	10 LDG	112024
ML	1.9	0.4	5 BGR	112014
ML	1.9	0.2	13 LED	112004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
LIBD	0.13	251.3	P*	04:44:45.500						T__				mci	
LIBD	0.13	251.3	S*	04:44:47.440						T__				m__	
FBB	0.20	167.5	S*	04:44:48.900						T__				m__	
KIZ	0.25	160.1	P*	04:44:47.060						T__				mdi ML	1.5
KIZ	0.25	160.1	S*	04:44:50.380						T__				m__	
FELD	0.35	155.6	P*	04:44:48.940						T__				mdi	
FELD	0.35	155.6	S*	04:44:53.540						T__				m__	
BFO	0.38	68.9	P*	04:44:49.560						T__				mci ML	1.5
BFO	0.38	68.9	S*	04:44:54.690						T__				m__	
BFO	0.38	68.9	SmS	04:44:58.270	-2.8					T__				m__	
OPP	0.40	40.8	P*	04:44:49.870						T__				mci ML	2.0
OPP	0.40	40.8	S*	04:44:55.110						T__				m__	
ECH	0.42	273.3	P*	04:44:50.100						T__				m__ ML	2.2
ECH	0.42	273.3	PmP	04:44:53.500	-0.3					T__				m__	
ECH	0.42	273.3	S*	04:44:55.850						T__				m__	
MOF	0.56	232.4	P*	04:44:52.700						T__				m__	
MOF	0.56	232.4	PmP	04:44:53.500	-2.1					T__				m__	
MOF	0.56	232.4	S*	04:45:00.500						T__				m__	
MOF	0.56	232.4	SmS	04:45:01.700	-3.2					T__				m__	
SLE	0.64	131.9	P*	04:44:54.140						T__				m__ ML	1.6
SLE	0.64	131.9	PmP	04:44:54.610	-2.2					T__				m__	
SLE	0.64	131.9	S*	04:45:02.330						T__				m__	
SLE	0.64	131.9	SmS	04:45:04.160	-2.8					T__				m__	
SPAK	0.67	97.4	P*	04:44:55.070						T__				mdi	
BBS	0.75	194.6	P*	04:44:56.630						T__				mdi	
LBG	0.82	54.4	P*	04:44:57.580						T__				m__ ML	1.9
GUT	0.89	97.4	P	04:44:59.070						T__				mci ML	2.2
SISB	0.94	122.3	Pg	04:45:00.020	0.3					T__				mci ML	2.0
SISB	0.94	122.3	Sg	04:45:12.500	0.6					T__				m__	
LOMF	1.06	217.9	Sg	04:45:16.480	0.6					T__				m__	

BUCH	1.07	75.5	Pg	04:45:02.370	0.1	T__	m__	ML	1.9
BUCH	1.07	75.5	Sg	04:45:16.820	0.7	T__	m__		
STU	1.10	57.6	Sg	04:45:17.290	0.4	___	m_e	ML	1.9
THEF	1.20	272.3	Pg	04:45:04.660	0.0	T__	mdi		
SWS	1.42	24.6	Sg	04:45:27.260	-0.1	___	m__	ML	1.8
UBR	1.64	107.4	Pg	04:45:13.650	0.8	___	mdi	ML	1.9
UBR	1.64	107.4	Sg	04:45:34.210	0.2	___	m__		
HDH	1.65	75.4	Pg	04:45:13.300	0.1	___	m__	ML	1.7
WLF	1.82	324.4	Pg	04:45:16.308	-0.1	___	m_e	ML	2.3
WLF	1.82	324.4	Sg	04:45:39.403	-0.6	___	m_e		
OBER	1.86	114.1	Sg	04:45:42.753	1.7	___	m_e	ML	2.0
TNS	2.07	11.7	Sg	04:45:48.390	0.4	___	m__	ML	1.5
GRA1	2.71	55.1	Pg	04:45:32.673	-0.4	___	m_e		
GRA1	2.71	55.1	Sg	04:46:07.039	-1.0	___	m_e		

Event 112006 Hamm/Westfalen, Ruhr Coal Mining District																		
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/12	09:52:11.20	0.69	0.31	51.6200	7.6750				1.0f			6	298	0.53	1.47	m i k i	BNS	112026
2010/01/12	09:52:09.56	0.39	0.55	51.5600	7.7620	5.6	4.4	008	1.0f		7	5	134	0.33	1.64	m i k i	BGR	112016
2010/01/12	09:52:08.80			51.6150	7.8060				1.0f				238	0.12	0.38	m i k i	BUG	112006
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
ML	1.5		BNS	112026
ML	2.0	0.2	2 BGR	112016
ML	1.7		BUG	112006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.12	4.6	Pg	09:52:11.800	0.7					T__				m__	ML	1.5
BAHL	0.12	4.6	Sg	09:52:13.800	1.1					T__				m__		
BUG	0.38	242.6	Pg	09:52:16.900	1.0					TA__				m_e	ML	1.7
BUG	0.38	242.6	Sg	09:52:22.800	2.0					TA__				m__		
LAUG	0.60	244.1	Pg	09:52:21.140	1.1					___				m_e		
HOBG	0.70	205.2	Pg	09:52:24.160	2.2					___				m_e		
WTSB	0.72	299.8	Pg	09:52:23.750	1.5					___				m_e		
WTSB	0.72	299.8	Sg	09:52:33.845	2.3					___				m_e		
STB	1.19	211.1	Pg	09:52:32.860	1.7					___				m_e		
STB	1.19	211.1	Sg	09:52:48.440	1.9					___		17.8	0.43	m_e		
KOE	1.19	182.3	Pg	09:52:32.920	1.7					___				m_e		
DREG	1.37	226.6	Pg	09:52:35.690	1.0					___				m_e		
TNS	1.45	163.6	Sg	09:52:55.748	0.9					___				m_e	ML	2.2
HGN	1.45	234.8	Sg	09:52:54.898	0.0					___				m_e		
HILG	1.50	208.7	Pg	09:52:37.800	0.7					___				m_e		
CLZ	1.61	80.9	Pg	09:52:39.827	0.8					___				m_e		
CLZ	1.61	80.9	Sg	09:53:03.591	3.8					___				m_e		

Event 115013 Poland																		
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID

2010/01/15 09:44:43.10	0.76	0.41	51.1700	16.4840						5.0f		4	355	5.58	6.48	m i ke	BNS	115023
2010/01/15 09:44:46.05	0.52	0.71	51.5110	16.0910	5.6	3.3	030	1.0f			25	13	233	0.68	3.58	m i ki	BGR	115013
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
ML	3.9		BNS	115023
ML	3.6	0.4	10 BGR	115013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.68	169.2	Pg	09:44:59.172	0.3					T__				m_e	ML 3.1
KSP	0.68	169.2	Sg	09:45:08.701	1.1					T__				m_e	
DPC	1.17	172.8	Pg	09:45:07.969	-0.1					T__				m_e	ML 3.2
DPC	1.17	172.8	Sg	09:45:23.843	0.6					T__				m_e	
BRG	1.49	245.5	Pn	09:45:12.299	-0.9					T__				m_e	ML 3.9
BRG	1.49	245.5	Pg	09:45:13.864	-0.3					T__				m_e	
BRG	1.49	245.5	Sg	09:45:34.633	1.3					T__				m_e	
FBE	1.81	252.1	Pn	09:45:17.106	-0.5					T__				m_e	ML 3.0
FBE	1.81	252.1	Pg	09:45:19.756	-0.5					T__				m_e	
FBE	1.81	252.1	Sg	09:45:43.835	0.2					T__				m_e	
CLL	1.94	265.2	Pn	09:45:18.240	-1.0					T__				m_e	ML 3.7
CLL	1.94	265.2	Sg	09:45:47.629	0.0					T__				m_e	
MORC	1.96	151.5	Sg	09:45:47.191	-1.2					T__				m_e	ML 3.4
TANN	2.53	245.8	Pn	09:45:27.472	0.1					T__				m_e	
WERD	2.61	247.4	Pn	09:45:28.305	-0.1					T__				m_e	ML 3.9
WERD	2.61	247.4	Pg	09:45:34.805	-0.4					T__				m_e	
WERD	2.61	247.4	Sg	09:46:08.630	-0.3					T__				m_e	
MANZ	2.95	240.4	Pn	09:45:33.537	0.6					T__				m_e	
ROTZ	3.02	236.2	Pn	09:45:34.412	0.5					T__				m_e	ML 3.3
ROTZ	3.02	236.2	Sg	09:46:21.443	-0.5					T__				m_e	
GEC2	3.07	210.8	Pn	09:45:35.163	0.5					T__				m_e	ML 3.9
GEC2	3.07	210.8	Sg	09:46:22.746	-0.9					T__				m_e	
CLZ	3.56	277.6	Pn	09:45:41.968	0.7					T__				m_e	
GRA1	3.58	241.4	Pn	09:45:42.438	0.8					T__				m_e	ML 4.5
GRA1	3.58	241.4	Sg	09:46:41.174	1.2					T__				m_e	
KOE	5.37	261.6	Pn	09:46:05.300	-0.5					---				m_e	
BGG	5.67	260.1	Pn	09:46:10.100	0.2					---				m_e	
STB	5.88	264.7	Pn	09:46:13.600	0.8					---				m_e	
STB	5.88	264.7	Sn	09:47:21.300	5.6					---		28.4	0.91	m_e	
DREG	6.25	266.1	Pn	09:46:17.900	0.2					---				m_e	

Event	115009	Duisburg, Ruhr Coal Mining District																
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/15	22:02:31.90	0.16	0.34	51.6422	6.8422	2.8	1.7	033	1.0f		30	14	273			m i sr	LDG	115049
2010/01/15	22:02:32.60	0.47	0.21	51.6040	6.8120				1.0f			9	291	0.27	1.31	m i ki	BNS	115039
2010/01/15	22:02:31.70	0.42	0.11	51.6300	6.8570				1.0f			8	294			m i ki	GDNRW	115029
2010/01/15	22:02:32.19	0.62	0.57	51.6340	6.7430	7.8	4.4	120	1.0f		15	12	212	0.38	3.80	m i ki	BGR	115019
2010/01/15	22:02:32.10			51.5790	6.8520				1.0f				256	0.04	0.29	m i ki	BUG	115009
(#PRIME)																		

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.3	10 LDG	115049

ML	2.2		BNS	115039
ML	2.2		GDNRW	115029
ML	2.7	0.1	4 BGR	115019
ML	2.1		BUG	115009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ZERL	0.04	14.6	Pg	22:02:32.200	-0.7					T_				m_e	ML 1.9
ZERL	0.04	14.6	Sg	22:02:33.100	-0.4					T_				m_e	
LAUG	0.24	165.9	Pg	22:02:37.370	0.8					---				m_e	
LAUG	0.24	165.9	Sg	22:02:41.850	2.3					---		246.3	0.43	m_e	
BUG	0.29	117.9	Pg	22:02:38.700	1.1					TA_				m_e	ML 2.1
BUG	0.29	117.9	Sg	22:02:43.500	2.0					TA_				m_e	
ENTS	0.49	133.9	Pg	22:02:42.195	0.9					---				m_e	
ENTS	0.49	133.9	Sg	22:02:49.317	1.8					---				m_e	
PLH	0.58	182.0	Pg	22:02:43.902	1.0					---				m_e	
PLH	0.58	182.0	Sg	22:02:52.836	2.5					---		290.2	0.18	m_e	
RODG	0.60	224.3	Pg	22:02:44.160	0.7					---				m_e	
JCK	0.60	206.0	Sg	22:02:53.328	2.0					---		264.4	0.22	m_e	
BNS	0.65	161.7	Pg	22:02:45.660	1.3					---				m_e	
BNS	0.65	161.7	Sg	22:02:54.910	2.2					---				m_e	
HOBG	0.67	153.0	Pg	22:02:45.920	1.2					---				m_e	
WBS	0.82	160.6	Sg	22:03:00.288	2.2					---		73.0	0.21	m_e	
GSH	0.89	199.5	Pg	22:02:50.076	1.1					---				m_e	
GSH	0.89	199.5	Sg	22:03:02.892	2.4					---		42.7	0.21	m_e	
IBBN	0.92	37.2	Pg	22:02:49.333	-0.1					---	9.0			m_e	
STB	0.99	180.4	Pg	22:02:51.650	1.0					---				m_e	
STB	0.99	180.4	Sg	22:03:05.530	2.1					---		111.0	0.74	m_e	
KLL	0.99	200.2	Pg	22:02:51.340	0.5					---				m_e	
DREG	0.99	203.2	Pg	22:02:51.780	0.9					---				m_e	
TDN	1.01	176.6	Pg	22:02:52.207	1.1					---				m_e	
TDN	1.01	176.6	Sg	22:03:06.278	2.2					---		12.5	0.19	m_e	
AHRW	1.05	172.2	Pg	22:02:53.116	1.3					---	11.5			m_e	ML 2.6
AHRW	1.05	172.2	Sg	22:03:08.745	3.4					---	6.2			m_e	
OLFT	1.12	194.2	Pg	22:02:53.983	0.8					---				m_e	
OLFT	1.12	194.2	Sg	22:03:09.748	2.1					---				m_e	
KOE	1.28	154.0	Pg	22:02:56.490	0.3					---				m_e	
HILG	1.29	184.9	Pg	22:02:56.530	0.1					---				m_e	
HILG	1.29	184.9	Sg	22:03:14.730	1.6					---				m_e	
LOH	1.41	188.3	Sg	22:03:17.551	0.6					---		67.9	0.24	m_e	
TNS	1.69	142.8	Pn	22:03:03.689	1.7					---	4.9			m_e	ML 2.6
TNS	1.69	142.8	Sg	22:03:28.624	2.9					---	4.1			m_e	
GTTG	1.94	89.8	Sg	22:03:35.317	1.7					---	2.7			m_e	ML 2.9
WLF	1.97	193.3	Pg	22:03:09.890	0.8					---	4.9			m_e	ML 2.7
WLF	1.97	193.3	Sg	22:03:34.668	0.1					---	4.6			m_e	
GRA1	3.35	122.5	Pn	22:03:25.983	1.5					---	1.6			m_e	
BFO	3.38	163.1	Pn	22:03:25.982	1.0					---	1.5			m_e	
PLN	3.51	106.1	Pn	22:03:28.187	1.5					---	2.3			m_e	
WERD	3.61	106.1	Pn	22:03:29.598	1.6					---	3.0			m_e	
WERN	3.71	108.2	Pn	22:03:30.736	1.4					---	2.4			m_e	
TANN	3.72	106.1	Pn	22:03:31.089	1.6					---	2.5			m_e	

Event 116001 Lahr/Upper Rhine Graben																		
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/16	02:23:42.90	0.05	0.58	48.3427	7.8038	0.9	0.8	148	9.0	0.5	113	27	024			m i ke	LDG	116031
2010/01/16	02:23:44.80	0.33	0.11	48.3090	7.7590				10.0f			5	347	1.92	2.52	m i ke	BNS	116021
2010/01/16	02:23:44.54	0.46	1.04	48.4030	7.8890	6.7	4.4	029	10.0f		32	15	215	0.30	3.87	m i ke	BGR	116011
2010/01/16	02:23:42.84	0.08	0.21	48.3270	7.8060	1.0	0.9	335	7.0	2.0	42	23	088	0.22	2.26	m i ke	LED	116001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.4	0.0	3 LDG	116031
ML	3.4	0.4	27 LDG	116031
ML	2.8		BNS	116021
ML	3.0	0.4	9 BGR	116011
ML	3.1	0.2	20 LED	116001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
LIBD	0.22	217.5	P*	02:23:47.820						T__				mci	
LIBD	0.22	217.5	S*	02:23:51.140						T__				m__	
STR	0.26	352.8	P*	02:23:48.120						T__				mdi	
STR	0.26	352.8	S*	02:23:52.760						__				m__	
OPP	0.30	55.9	P*	02:23:56.490						__				mci ML	2.8
FBB	0.33	174.5	P*	02:23:49.490						T__				mdi	
FBB	0.33	174.5	S*	02:23:54.170						T__				m__	
BFO	0.35	89.3	P*	02:23:49.570						T__				mci ML	3.2
BFO	0.35	89.3	S*	02:23:54.270						T__				m_i	
KIZ	0.38	168.5	P*	02:23:50.180						T__				mdi ML	2.6
KIZ	0.38	168.5	S*	02:23:55.220						T__				m__	
ECH	0.45	255.8	P*	02:23:51.300						T__				mci ML	2.9
ECH	0.45	255.8	PmP	02:23:53.830	-1.3					T__				m__	
ECH	0.45	255.8	S*	02:23:57.250						T__				m__	
FELD	0.47	163.6	P*	02:23:52.020						T__				mdi	
LANF	0.65	360.0	P*	02:23:55.300						T__				m__	
LANF	0.65	360.0	PmP	02:23:56.940	-1.1					T__				m__	
MOF	0.65	223.7	P*	02:23:55.460						T__				mci	
MOF	0.65	223.7	PmP	02:23:56.560	-1.5					T__				mdi	
SPAK	0.69	108.6	P*	02:23:56.150						T__				mdi	
SPAK	0.69	108.6	PmP	02:23:57.640	-1.0					T__				m__	
SLE	0.72	140.4	P*	02:23:56.690						T__				mdi ML	2.7
SLE	0.72	140.4	PmP	02:23:57.750	-1.4					T__				m__	
SLE	0.72	140.4	SmS	02:24:09.020	-1.4					T__				m__	
LBG	0.74	62.4	P*	02:23:56.690						T__				mci ML	3.2
LBG	0.74	62.4	S*	02:24:06.430						T__				m__	
LBG	0.74	62.4	SmS	02:24:08.670	-2.1					T__				m__	
TUBL	0.87	76.5	P*	02:23:59.490						T__				mce ML	3.5
LDAU	0.88	13.8	Pg	02:24:00.760	1.3					T__				m__ ML	3.5
BBS	0.89	193.1	P*	02:23:59.960						T__				m__	
GUT	0.91	105.9	Pn	02:24:00.060	-1.4					T__				m__ ML	3.2
SISB	1.01	129.1	Pn	02:24:02.030	-0.7					T__				mde ML	3.0
SISB	1.01	129.1	Pg	02:24:02.700	0.9					T__				mdi	
SISB	1.01	129.1	Sg	02:24:16.590	1.7					T__				m__	
KTD	1.01	10.3	Pg	02:24:02.540	0.6					T__				m__	
STU	1.02	63.7	Pn	02:24:01.820	-1.1					T__				mde ML	3.1
STU	1.02	63.7	Pg	02:24:02.570	0.5					T__				m__	
STU	1.02	63.7	Sg	02:24:15.329	0.0					__	3.3			m_e	

BUCH	1.03	82.6	Pn	02:24:02.260	-0.8	T_				m__ ML	3.5	
LOMF	1.18	214.3	Pg	02:24:05.380	0.3	T_				m__		
LOMF	1.18	214.3	Sg	02:24:21.630	1.4	T_				m__		
THEF	1.21	266.0	P	02:24:04.620		T_				mci		
SWS	1.30	26.6	Pn	02:24:04.960	-1.7	T_				md__ ML	2.8	
SWS	1.30	26.6	Sg	02:24:24.750	0.6	T_				m__		
TOD	1.44	26.7	Pn	02:24:06.850	-1.7					m__		
RUP	1.46	340.7	Pg	02:24:10.530	0.2					mci		
ABH	1.56	353.9	Pg	02:24:12.100	-0.2					m__		
SIND	1.56	48.5	Pn	02:24:08.670	-1.6					mce ML	3.2	
HDH	1.61	79.9	Pg	02:24:13.390	0.1					m__ ML	3.2	
HDH	1.61	79.9	Sg	02:24:34.290	0.2					m__		
UBR	1.67	111.9	Pn	02:24:12.290	0.6					m__ ML	3.3	
UBR	1.67	111.9	Sg	02:24:36.930	1.0					m__		
WLF	1.72	321.6	Pg	02:24:14.790	-0.5					m__ ML	2.7	
WLF	1.72	321.6	Sg	02:24:37.380	-0.2					m_e		
BGG	1.90	350.9	Pg	02:24:16.120	-2.6					m_e		
BGG	1.90	350.9	Sg	02:24:39.900	-3.5					m_e		
OBER	1.91	117.9	Sg	02:24:44.170	0.8				54.7	0.19	m_e	
TNS	1.94	12.2	P	02:24:14.320							m__ ML	3.3
TNS	1.94	12.2	Pn	02:24:15.660	0.3						m__ ML	2.9
TNS	1.94	12.2	Pg	02:24:19.465	0.0						m_e	
TNS	1.94	12.2	Sn	02:24:38.575	-0.1						m_e	
TNS	1.94	12.2	Sg	02:24:44.490	-0.0						m_e	
HILG	2.10	339.9	Pg	02:24:18.970	-3.4						m_e	
HILG	2.10	339.9	Sg	02:24:44.660	-4.8						m_e	
AHRW	2.26	348.2	Pg	02:24:20.780	-4.7						m__ ML	2.8
FUR	2.32	92.8	Pg	02:24:27.182	0.7						m_e ML	3.7
FUR	2.32	92.8	Sg	02:24:56.659	0.2						m_e	
STB	2.35	344.9	Pn	02:24:22.200	1.2						m_e	
KLL	2.51	337.9	Pn	02:24:24.200	1.0						m_e	
GRA1	2.62	57.4	Pg	02:24:32.020	-0.3						m_e ML	3.2
GRA1	2.62	57.4	Sg	02:25:04.628	-1.6						m_e	
UBBA	2.87	28.9	Pg	02:24:36.060	-0.9						m_e ML	2.9
UBBA	2.87	28.9	Sg	02:25:13.827	-0.2						m_e	
ROTZ	3.22	61.8	Pn	02:24:33.240	0.5						m_e ML	2.6
ROTZ	3.22	61.8	Pg	02:24:42.846	-0.8						m_e	
ROTZ	3.22	61.8	Sn	02:25:09.735	0.9						m_e	
MANZ	3.27	57.9	Sg	02:25:23.424	-3.2						m_e	
PLN	3.56	51.0	Pn	02:24:36.099	-1.2						m_e	
PLN	3.56	51.0	Pg	02:24:49.154	-0.8						m_e	
PLN	3.56	51.0	Sg	02:25:34.499	-1.4						m_e	
WERN	3.57	54.9	Pg	02:24:50.050	-0.0						m_e	
GUNZ	3.58	53.7	Pn	02:24:36.809	-0.8						m_e	
WERD	3.62	52.4	Pn	02:24:38.659	0.6						m_e	
WERD	3.62	52.4	Pg	02:24:49.947	-1.0						m_e	
TANN	3.68	53.7	Pn	02:24:40.607	1.6						m_e	
TANN	3.68	53.7	Pg	02:24:51.711	-0.5						m_e	
GEC2	3.93	80.2	Pn	02:24:43.221	0.8						m_e ML	3.4
GEC2	3.93	80.2	Sn	02:25:27.440	2.0						m_e	
GEC2	3.93	80.2	Sg	02:25:48.251	0.4						m_e	



Event 117004 Hamm/Westfalen, Ruhr Coal Mining District																		
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/17	22:19:24.70	0.59	0.31	51.7190	7.5550				1.0f			7	309	0.53	1.53	m i ki	BNS	117034
2010/01/17	22:19:25.70	0.62	0.21	51.5740	7.6310				1.0f			4	281			m i ki	GDNRW	117024
2010/01/17	22:19:26.51	0.37	0.82	51.6060	7.6550	5.6	4.4	114	1.0f		8	5	129	0.29	1.47	m i ki	BGR	117014
2010/01/17	22:19:24.00			51.6140	7.7150				1.0f				209	0.14	0.33	m i ki	BUG	117004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3		BNS	117034
ML	1.6		GDNRW	117024
ML	2.2	0.1	5 BGR	117014
ML	1.8		BUG	117004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.14	28.3	Pg	22:19:28.300	1.7					T_				m_e	ML 1.7
BAHL	0.14	28.3	Sg	22:19:31.200	2.8					T_				m_e	
SORT	0.31	148.8	Pg	22:19:32.072	2.2									m_e	
SORT	0.31	148.8	Sg	22:19:36.732	2.9							64.0	0.15	m_e	
BUG	0.33	238.2	Pg	22:19:31.200	1.0					TA_				m_e	ML 1.8
BUG	0.33	238.2	Sg	22:19:36.400	2.0					TA_				m_e	
ENTS	0.42	207.1	Pg	22:19:33.256	1.4									m_e	
ENTS	0.42	207.1	Sg	22:19:38.797	1.5									m_e	
LAUG	0.55	241.6	Pg	22:19:34.640	0.3									m_e	
HOBG	0.67	200.9	Pg	22:19:38.890	2.2									m_e	
IBBN	0.69	2.2	Pg	22:19:39.659	2.6						2.8			m_e	ML 2.2
IBBN	0.69	2.2	Sg	22:19:48.785	2.8						3.0			m_e	
AHRW	1.15	200.8	Pg	22:19:47.295	1.7						7.2			m_e	ML 2.2
AHRW	1.15	200.8	Sg	22:20:03.537	3.1						5.3			m_e	
STB	1.16	208.7	Pg	22:19:47.400	1.6									m_e	
STB	1.16	208.7	Sg	22:20:03.560	2.8							54.4	0.50	m_e	
KOE	1.19	179.5	Pg	22:19:47.810	1.4									m_e	
KLL	1.31	222.9	Pg	22:19:48.850	0.2									m_e	
DREG	1.33	224.9	Pg	22:19:48.850	-0.2									m_e	
OLFT	1.38	216.5	Pg	22:19:50.662	0.6									m_e	
GTTG	1.40	91.9	Sg	22:20:13.195	4.7						3.2			m_e	ML 2.3
TNS	1.47	161.4	Sg	22:20:12.002	1.4						3.5			m_e	ML 2.2
HILG	1.47	206.7	Pg	22:19:52.160	0.4									m_e	

Event 119007 Martigny-les-Bains, W Vosges/F																		
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/19	03:25:08.85	1.69	0.57	48.0650	5.6730	15.6	7.8	057	10.0f		7	5	290	1.00	2.82	m i ke	BGR	119017
2010/01/19	03:25:10.20	0.05	0.76	48.0922	5.7303	0.9	0.8	154	16.9	0.5	89	31	029			m i ke	LDG	119007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.1	2 BGR	119017
MD	2.7	0.2	5 LDG	119007
ML	2.6	0.4	29 LDG	119007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ECH	0.96	82.1	Pg	03:25:28.500	-0.0										m_e
ECH	0.96	82.1	Sg	03:25:41.005	-0.1										m_e
WLF	1.60	9.9	Sg	03:26:00.624	-0.5										m_e ML 2.1
BFO	1.75	81.2	Pg	03:25:42.270	-1.0										m_e ML 2.2
BFO	1.75	81.2	Sg	03:26:05.304	-0.6										m_e
LDAU	1.92	54.6	Sg	03:26:12.498	1.0										m_e
TNS	2.77	38.8	Sg	03:26:37.929	-0.5										m_e

Event 119008 Pitztal/A, E of Landeck

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/19	10:28:18.29	0.88	0.86	46.9300	10.9660	12.2	4.4	008	10.0f		9	7	212	0.57	2.26	m i ke	BGR	119018
2010/01/19	10:28:17.83	0.19	0.26	47.0050	10.9404	1.0	0.7	137	7.8	3.9	25	6	100			m i uk	ZAMG	119008

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7	0.4	3 BGR	119018
ML	2.0	0.4	10 ZAMG	119008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WTTA	0.54	61.1	Pg	10:28:28.436	0.4										m_e
WTTA	0.54	61.1	Sg	10:28:36.328	1.2										m_e
OBER	0.60	312.7	Sg	10:28:39.109	2.2										m_e ML 1.3
DAVA	0.77	291.7	Sg	10:28:45.814	3.3										m_e ML 1.5
FUR	1.18	10.9	Sg	10:28:58.022	2.7										m_e ML 2.3
RJOB	1.45	59.1	Pg	10:28:47.300	2.0										m_e
RJOB	1.45	59.1	Sg	10:29:06.487	2.4										m_e
KBA	1.64	86.6	Sg	10:29:09.262	-0.7										m_e
BFO	2.20	308.0	Sg	10:29:29.150	1.3										m_e

Event 119005 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/19	11:43:48.11	0.36	1.11	51.6150	7.7960	6.7	4.4	139	1.0f		10	7	116	0.37	1.61	m i ki	BGR	119015
2010/01/19	11:43:47.70			51.6650	7.7470				1.0f							m i ki	BUG	119005

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.0	0.2	4 BGR	119015
ML	1.9		BUG	119005

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.09	32.7	Pg	11:43:49.000	-0.3					T__					m__ ML 1.9
BAHL	0.09	32.7	Sg	11:43:50.200	-0.2					T__					m__
BUG	0.37	233.1	Pg	11:43:54.132	-0.6						2.2				m_e ML 1.9
BUG	0.37	233.1	Sg	11:43:59.911	0.4						10.9				m_e
IBBN	0.64	0.7	Sg	11:44:11.194	3.1						3.0				m_e ML 1.9
AHRW	1.20	200.8	Pg	11:44:10.172	-0.1						2.2				m_e ML 2.0
AHRW	1.20	200.8	Sg	11:44:26.774	0.9						3.0				m_e

GTTG	1.38	94.1	Sg	11:44:32.759	1.1	---	2.5											m_e ML	2.3
TNS	1.51	162.7	Sg	11:44:34.458	-1.2	---	2.6											m_e	
CLZ	1.63	82.8	Pg	11:44:17.455	-1.1	---	3.2											m_e	
UBBA	1.65	120.1	Pn	11:44:14.862	-2.1	---	1.3											m_e	
UBBA	1.65	120.1	Pg	11:44:17.661	-1.0	---	2.1											m_e	

Event 119009 E Salzkammergut/A, Totes Gebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/19	18:44:03.51	0.33	1.01	47.7060	13.7060	4.4	4.4	173	10.0f	0.0	18	9	143	1.14	2.83	m i ke	BGR	119019
2010/01/19	18:43:59.64	0.15	1.10	47.6605	13.7528	1.4	1.1	175	0.0	0.0	35	12	029			m i sr	ZAMG	119009

(#PRIME)

Magnitude Err Nsta Author OrigID

ML	2.8	0.3	8	BGR	119019
ML	2.7	0.3	14	ZAMG	119009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GEC2	1.19	358.4	Pn	18:44:23.016	0.2					---				m_e ML	2.4
GEC2	1.19	358.4	Sg	18:44:41.465	4.2					---				m_e	
ARSA	1.27	108.3	Pn	18:44:25.699	1.8					---				m_e ML	2.4
ARSA	1.27	108.3	Sg	18:44:46.164	6.3					---				m_e	
WTTA	1.48	255.3	Pn	18:44:29.104	2.3					---				m_e ML	2.8
WTTA	1.48	255.3	Sg	18:44:51.216	4.4					---				m_e	
WET	1.59	339.0	Pn	18:44:30.617	2.3					---				m_e ML	2.7
WET	1.59	339.0	Sg	18:44:53.031	2.8					---				m_e	
FUR	1.73	287.8	Pn	18:44:33.371	3.1					---				m_e ML	3.1
FUR	1.73	287.8	Sg	18:44:57.168	2.4					---				m_e	
OBER	2.35	265.1	Sg	18:45:16.012	1.7					---				m_e ML	2.8
GRA1	2.63	321.5	Pg	18:44:51.518	2.3					---				m_e	
GRA1	2.63	321.5	Sg	18:45:24.375	1.2					---				m_e	
DAVA	2.64	263.3	Pn	18:44:45.336	2.8					---				m_e ML	2.9
DAVA	2.64	263.3	Sg	18:45:28.039	4.4					---				m_e	
TANN	2.88	343.4	Pn	18:44:47.981	2.2					---				m_e ML	3.1
TANN	2.88	343.4	Pg	18:44:55.566	1.6					---				m_e	
TANN	2.88	343.4	Sg	18:45:33.631	2.5					---				m_e	

Event 120002 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/20	00:34:19.80	0.85	0.41	51.6790	7.6540				1.0f			6	304	0.55	1.35	m i ki	BNS	120022
2010/01/20	00:34:19.30	0.60	0.47	51.6660	7.8200	7.8	4.4	151	1.0f		9	4	206	0.41	1.59	m i ki	BGR	120012
2010/01/20	00:34:18.60			51.6400	7.7590				1.0f				215	0.10	0.36	m i ki	BUG	120002

(#PRIME)

Magnitude Err Nsta Author OrigID

ML	1.4			BNS	120022
ML	2.0	0.1	3	BGR	120012
ML	1.6			BUG	120002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.10	21.8	Pg	00:34:21.200	0.6					T__				m_e	ML 1.5
BAHL	0.10	21.8	Sg	00:34:23.200	1.3					T__				m_e	
BUG	0.36	237.0	Pg	00:34:26.500	1.0					TA_				m_e	ML 1.6
BUG	0.36	237.0	Sg	00:34:32.200	2.0					TA_				m_e	
LAUG	0.58	240.7	Pg	00:34:29.950	0.3					---				m_e	
HOBG	0.71	202.2	Pg	00:34:33.740	1.8					---				m_e	
AHRW	1.18	201.6	Pg	00:34:42.574	1.7					---	3.7			m_e	ML 1.9
AHRW	1.18	201.6	Sg	00:34:58.952	2.9					---	2.9			m_e	
STB	1.19	209.2	Pg	00:34:42.000	0.9					---				m_e	
STB	1.19	209.2	Sg	00:34:58.270	1.7					---		11.9	0.29	m_e	
KOE	1.21	180.8	Pg	00:34:42.280	0.8					---				m_e	
KLL	1.35	223.0	Pg	00:34:44.300	0.3					---				m_e	
DREG	1.37	225.0	Pg	00:34:44.750	0.4					---				m_e	
TNS	1.48	162.7	Pg	00:34:47.458	0.9					---	2.0			m_e	ML 2.1
TNS	1.48	162.7	Sn	00:35:04.813	0.0					---	1.4			m_e	
TNS	1.48	162.7	Sg	00:35:06.866	1.2					---	3.8			m_e	
CLZ	1.63	81.9	Pn	00:34:47.930	0.3					---				m_e	
CLZ	1.63	81.9	Pg	00:34:49.635	0.3					---	7.1			m_e	

Event 120004 Gundersleben, Sondershausen, S of Nordhausen

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/20	06:54:19.59	0.44	0.51	51.3580	10.8020	5.6	2.2	056	1.0f		16	11	181	0.55	1.82	m i ki	BGR	120004

Magnitude	Err	Nsta	Author	OrigID
ML	2.1	0.2	8 BGR	120004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLZ	0.55	331.3	Pg	06:54:30.145	0.1					T__	8.1			m_e	ML 2.0
CLZ	0.55	331.3	Sg	06:54:37.292	0.2					T__	2.8			m_e	
NEUB	0.63	103.4	Sg	06:54:40.516	1.0					T__	5.6			m_e	ML 2.1
ASSE	0.78	354.1	Pg	06:54:34.053	-0.2					T__	14.9			m_e	ML 1.7
ASSE	0.78	354.1	Sg	06:54:44.060	-0.2					T__	0.8			m_e	
FLT1	1.01	15.3	Pg	06:54:38.206	-0.4					T__	6.4			m_e	ML 2.0
FLT1	1.01	15.3	Sg	06:54:52.429	0.8					T__	0.8			m_e	
PLN	1.22	135.1	Sg	06:54:58.378	-0.0					T__	6.1			m_e	ML 2.1
WERD	1.31	133.2	Sg	06:55:01.810	0.5					T__	4.7			m_e	ML 2.3
CLL	1.38	91.2	Sg	06:55:02.892	-0.4					T__	4.7			m_e	ML 2.4
GUNZ	1.39	135.3	Sg	06:55:03.290	-0.3					T__	7.3			m_e	ML 2.2
TANN	1.41	131.4	Pg	06:54:45.497	-0.6					T__	7.3			m_e	
TANN	1.41	131.4	Sg	06:55:04.175	-0.2					T__	8.1			m_e	
FBE	1.66	104.3	Sn	06:55:10.873	0.9					T__	1.5			m_e	
FBE	1.66	104.3	Sg	06:55:11.962	-0.4					T__	2.7			m_e	
ROTZ	1.82	150.2	Sn	06:55:14.261	0.5					T__	3.9			m_e	

Event 120014 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/20	20:35:19.38	0.55	0.53	51.5100	16.0990	5.6	4.4	163	1.0f		19	13	264	1.49	4.26	m i ki	BGR	120014

Magnitude Err Nsta Author OrigID  
 ML 3.4 0.3 5 BGR 120014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	1.49	245.6	Pn	20:35:45.931	-0.7					T__	47.0			m_e	
BRG	1.49	245.6	Pg	20:35:47.104	-0.4					T__	47.0			m_e	
BRG	1.49	245.6	Sg	20:36:07.484	0.6					T__				m_e	
RUE	1.72	305.0	Sg	20:36:14.804	0.7					T__				m_e	ML 3.3
FBE	1.82	252.2	Sg	20:36:16.951	-0.2					T__				m_e	ML 3.1
CLL	1.94	265.2	Pn	20:35:51.521	-1.1					T__	61.9			m_e	ML 3.2
CLL	1.94	265.2	Sg	20:36:21.162	0.1					T__				m_e	
TANN	2.54	245.9	Pn	20:36:00.599	-0.2					T__	40.8			m_e	ML 3.5
TANN	2.54	245.9	Sg	20:36:40.340	0.3					T__				m_e	
NEUB	2.72	265.3	Sg	20:36:46.562	0.9					T__				m_e	ML 4.0
MOX	2.95	254.7	Pn	20:36:06.133	-0.1					T__	8.8			m_e	
MOX	2.95	254.7	Sg	20:36:52.826	-0.1					T__				m_e	
ROTZ	3.02	236.3	Pn	20:36:07.398	0.1					T__	14.8			m_e	
GEC2	3.08	210.9	Pn	20:36:08.792	0.8					T__	16.2			m_e	
WET	3.13	222.2	Pn	20:36:08.984	0.2					T__	10.7			m_e	
CLZ	3.57	277.6	Pn	20:36:15.141	0.5					T__	7.5			m_e	
CLZ	3.57	277.6	Pg	20:36:26.257	-0.3					T__	2.2			m_e	
NRDL	3.82	287.3	Pn	20:36:18.765	0.7					T__	4.8			m_e	
BSEG	4.26	307.0	Pn	20:36:23.339	-0.7					T__	4.5			m_e	

Event 122003 Poland  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author OrigID  
 2010/01/22 04:05:43.37 0.62 0.65 51.0420 19.0880 14.5 5.6 169 1.0f 18 12 324 3.24 5.19 m i ki BGR 122003

Magnitude Err Nsta Author OrigID  
 ML 4.7 0.2 6 BGR 122003

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	3.24	269.0	Pn	04:06:35.344	1.0					T__				m_e	ML 4.4
BRG	3.24	269.0	Sg	04:07:27.227	0.8					T__				m_e	
FBE	3.61	270.3	Pn	04:06:41.198	1.9					T__				m_e	
FBE	3.61	270.3	Sg	04:07:38.867	0.8					T__				m_e	
CLL	3.82	276.4	Pn	04:06:43.632	1.5					T__				m_e	ML 4.8
GEC2	4.10	239.7	Sg	04:07:54.088	0.4					T__				m_e	ML 4.8
SCHF	4.23	267.7	Pn	04:06:49.301	1.6					T__				m_e	ML 4.7
SCHF	4.23	267.7	Sg	04:07:58.191	0.3					T__				m_e	
TANN	4.24	264.1	Pn	04:06:48.321	0.5					T__				m_e	ML 4.8
TANN	4.24	264.1	Sg	04:07:57.554	-0.5					T__				m_e	
MULD	4.28	264.1	Pn	04:06:48.375	0.1					T__				m_e	
NKC	4.29	261.7	Pn	04:06:49.937	1.5					T__				m_e	
NKC	4.29	261.7	Sg	04:08:01.201	1.6					T__				m_e	
WERN	4.32	262.6	Pn	04:06:49.879	1.0					T__				m_e	
WERD	4.33	264.7	Pn	04:06:50.053	1.0					T__				m_e	
WERD	4.33	264.7	Sg	04:07:59.985	-1.0					T__				m_e	
ROHR	4.37	262.0	Pn	04:06:50.636	1.1					T__				m_e	
GRA1	5.19	258.0	Sg	04:08:29.294	0.9					T__				m_e	ML 5.0

Event 123006 E Salzkammergut/A, Totes Gebirge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/23	21:27:24.67	0.14	0.47	47.6446	13.7428	1.2	1.0	001	2.1	3.5	29	9	050			m i uk	ZAMG	123016
2010/01/23	21:27:27.29	0.24	1.13	47.6590	13.7050	3.3	3.3	014	10.0f		21	13	063	0.42	3.66	m i ke	BGR	123006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3	0.3	11 ZAMG	123016
ML	1.9	0.3	10 BGR	123006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
MOA	0.42	63.0	Pg	21:27:35.412	-0.0					T__				m_e ML	1.6
MOA	0.42	63.0	Sg	21:27:42.061	1.0					T__				m_e	
RJOB	0.62	277.6	Pg	21:27:39.053	0.0					T__				m_e ML	1.6
RJOB	0.62	277.6	Sg	21:27:48.844	1.7					T__				m_e	
KBA	0.63	202.9	Pg	21:27:37.148	-2.1					T__				m_e ML	1.5
KBA	0.63	202.9	Sg	21:27:46.334	-1.2					T__				m_e	
GEC2	1.19	359.9	Pg	21:27:48.991	-0.7					T__				m_e ML	1.9
GEC2	1.19	359.9	Sg	21:28:05.130	0.0					T__				m_e	
OBKA	1.29	153.1	Pg	21:27:51.116	-0.5					T__				m_e ML	1.9
OBKA	1.29	153.1	Sg	21:28:08.075	-0.2					T__				m_e	
ARSA	1.30	107.7	Pg	21:27:51.261	-0.5					T__				m_e ML	1.8
ARSA	1.30	107.7	Sg	21:28:10.813	2.3					T__				m_e	
WTTA	1.45	255.0	Pg	21:27:53.879	-0.9					T__				m_e ML	2.1
WTTA	1.45	255.0	Sg	21:28:15.999	2.4					T__				m_e	
WET	1.58	340.0	Sg	21:28:16.727	-0.9					T__				m_e ML	2.1
FUR	1.70	288.1	Sg	21:28:22.550	1.0					T__				m_e ML	2.5
OBER	2.32	265.0	Sg	21:28:40.928	-0.0					T__				m_e ML	2.3
GRA1	2.61	322.0	Pg	21:28:16.414	-0.1					T__				m_e	
GRA1	2.61	322.0	Sg	21:28:48.978	-1.3					T__				m_e	
DAVA	2.61	263.2	Sg	21:28:51.201	0.9					T__				m_e	
BFO	3.66	282.6	Sg	21:29:23.541	-0.0					T__				m_e	

Event 124011 Eastern Dachstein/A, S of Bad Aussee

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/24	00:46:32.29	0.10	0.32	47.5696	13.6572	1.0	0.7	172	1.0	0.0	33	9	050			m i uk	ZAMG	124021
2010/01/24	00:46:33.66	0.32	0.80	47.5350	13.6670	4.4	3.3	147	10.0f		16	10	104	0.51	2.57	m i ke	BGR	124011

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3	0.5	10 ZAMG	124021
ML	1.8	0.4	7 BGR	124011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KBA	0.51	205.7	Pg	00:46:42.988	-0.4					T__				m_e ML	1.3
KBA	0.51	205.7	Sg	00:46:50.305	0.3					T__				m_e	
MOA	0.51	51.8	Pg	00:46:43.157	-0.3					T__				m_e ML	1.3



TOD	1.00	117.6	Sg	02:35:11.910	0.3	T__	m__													
LDAU	1.00	153.0	S	02:35:12.380		__	m__	ML	2.3											
SWS	1.01	125.5	Pg	02:34:58.530	-0.1	T__	m__	ML	1.7											
LANF	1.13	167.4	Pg	02:35:00.710	-0.1	T__	m__													
BUG	1.36	355.8	Sg	02:35:21.507	-1.4	__	m_e	ML	1.9											
SIND	1.59	116.6	Pg	02:35:09.650	0.3	T__	m__	ML	1.9											
OPP	1.66	162.4	Pg	02:35:10.800	0.1	T__	m__	ML	1.9											
WLS	1.67	181.7	Sg	02:35:30.610	-2.0	__	m__													
LBG	1.67	147.4	Pg	02:35:11.060	0.0	T__	m__	ML	1.5											
BFO	1.85	161.1	Pn	02:35:10.330	0.6	__	m__	ML	1.9											
BFO	1.85	161.1	Pg	02:35:14.590	0.3	__	m__													
ECH	1.87	185.5	Sg	02:35:36.300	-2.7	__	m__	ML	2.2											
KIZ	2.15	171.2	Sn	02:35:37.160	-1.4	__	m__	ML	1.6											

Event 126007 Hamm/Westfalen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/26	01:47:01.60	0.68	0.31	51.6420	7.5970				1.0f			7	301	0.50	1.47	m i ki	BNS	126037
2010/01/26	01:47:01.10	0.34	0.21	51.6350	7.6540				1.0f			7	273			m i ki	GDNRW	126027
2010/01/26	01:47:02.17	0.29	1.01	51.5810	7.7160	4.4	3.3	098	1.0f		17	9	081	0.31	1.67	m i ki	BGR	126017
2010/01/26	01:47:00.60			51.6340	7.6780				1.0f				192	0.14	0.32	m i ki	BUG	126007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	126037
ML	1.9		GDNRW	126027
ML	2.1	0.1	4 BGR	126017
ML	2.0		BUG	126007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.14	40.8	Pg	01:47:04.800	1.6					T__				m__	ML	1.7
BAHL	0.14	40.8	Sg	01:47:07.100	2.2					T__				m__		
BUG	0.32	232.9	Pg	01:47:07.600	1.0					TA__				m_e	ML	2.0
BUG	0.32	232.9	Sg	01:47:12.700	1.9					TA__				m__		
SORT	0.34	147.2	Pg	01:47:08.443	1.5					__				m_e		
SORT	0.34	147.2	Sg	01:47:13.304	2.0					__		62.8	0.18	m_e		
ENTS	0.43	203.1	Pg	01:47:09.703	1.1					__				m_e		
ENTS	0.43	203.1	Sg	01:47:15.677	1.5					__				m_e		
LAUG	0.54	238.5	Pg	01:47:11.140	0.4					__				m_e		
WTSB	0.64	301.8	Pg	01:47:14.103	1.5					__				m_e		
WTSB	0.64	301.8	Sg	01:47:24.456	3.6					__				m_e		
IBBN	0.67	4.2	Pg	01:47:15.430	2.1					__				m_e	ML	2.2
IBBN	0.67	4.2	Sg	01:47:26.305	4.3					__				m_e		
HOBG	0.69	198.4	Pg	01:47:14.100	0.6					__				m_e		
PLH	0.83	220.8	Pg	01:47:16.590	0.4					__				m_e		
WBS	0.86	196.8	Pg	01:47:18.117	1.2					__				m_e		
WBS	0.86	196.8	Sg	01:47:29.885	1.8					__		21.4	0.19	m_e		
JCK	0.98	232.9	Pg	01:47:19.878	0.8					__				m_e		
JCK	0.98	232.9	Sg	01:47:33.178	1.4					__		148.1	0.19	m_e		
AHRW	1.16	199.3	Pg	01:47:23.656	1.3					__				m_e	ML	2.0
AHRW	1.16	199.3	Sg	01:47:40.610	3.3					__				m_e		
STB	1.17	207.2	Pg	01:47:23.000	0.4					__				m_e		





LDAU	1.00	151.5	S	01:13:10.720													m__	ML	2.3	
TOD	1.01	116.1	Sg	01:13:10.520	-0.2												T__	m__		
MEM	1.05	302.2	Pg	01:12:58.116	0.1													m_e		
MEM	1.05	302.2	Sg	01:13:11.729	0.0													m_e		
LANF	1.11	166.1	Pg	01:12:59.330	0.1												T__	m__		
HGN	1.17	307.5	Pg	01:13:00.067	-0.3													m_e		
HGN	1.17	307.5	Sg	01:13:14.921	-0.7													m_e		
OPP	1.64	161.5	Pg	01:13:09.830	0.6													m__	ML	1.8
WLS	1.65	181.1	Pg	01:13:10.510	1.3													m__		
BFO	1.83	160.3	Pg	01:13:13.260	0.5													m__	ML	1.8
BFO	1.83	160.3	Sg	01:13:35.123	-1.4													m_e		
ECH	1.85	185.0	Pg	01:13:13.116	0.1													m_e	ML	2.2
ECH	1.85	185.0	Sg	01:13:35.250	-1.8													m__		
THEF	2.05	207.2	Pg	01:13:14.870	-1.9													m__		
KIZ	2.13	170.6	Sg	01:13:44.690	-1.3													m__	ML	1.6
SLE	2.40	162.2	Pn	01:13:16.860	1.6													m__	ML	1.6

Event 129002 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2010/01/29	04:58:59.34	0.49	0.63	51.4950	16.1350	5.6	3.3	019	1.0f		23	12	224	1.15	3.59	m i ki	BGR	129002

Magnitude	Err	Nsta	Author	OrigID
ML	3.0	0.4	7 BGR	129002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
DPC	1.15	174.0	Pg	04:59:20.559	-0.5					T__				m_e		
DPC	1.15	174.0	Sg	04:59:36.641	0.7					T__				m_e		
BRG	1.51	246.5	Pn	04:59:26.376	-0.4					T__				m_e	ML	3.0
BRG	1.51	246.5	Pg	04:59:27.295	-0.5					T__				m_e		
BRG	1.51	246.5	Sg	04:59:47.574	0.3					T__				m_e		
FBE	1.83	252.9	Pn	04:59:32.268	1.1					T__				m_e	ML	2.2
FBE	1.83	252.9	Pg	04:59:33.633	-0.3					T__				m_e		
FBE	1.83	252.9	Sg	04:59:57.326	-0.3					T__				m_e		
MORC	1.94	152.0	Pn	04:59:32.028	-0.5					T__				m_e		
CLL	1.96	265.8	Pn	04:59:31.770	-1.1					T__				m_e	ML	3.0
CLL	1.96	265.8	Sg	05:00:01.732	0.0					T__				m_e		
OKC	2.09	141.6	Pn	04:59:34.178	-0.5					T__				m_e		
OKC	2.09	141.6	Sg	05:00:05.705	-0.1					T__				m_e		
TANN	2.55	246.4	Pn	04:59:40.921	0.0					T__				m_e	ML	3.2
WERD	2.63	248.0	Pn	04:59:42.196	0.3					T__				m_e		
WERD	2.63	248.0	Sg	05:00:23.808	1.0					T__				m_e		
MOX	2.96	255.1	Pn	04:59:46.552	0.1					T__				m_e	ML	3.4
MOX	2.96	255.1	Pg	04:59:54.697	-0.5					T__				m_e		
MOX	2.96	255.1	Sg	05:00:34.154	0.7					T__				m_e		
GEC2	3.07	211.4	Pn	04:59:49.128	1.2					T__				m_e		
WET	3.14	222.8	Pn	04:59:49.339	0.5					T__				m_e	ML	3.2
WET	3.14	222.8	Sg	05:00:38.187	-0.8					T__				m_e		
CLZ	3.59	277.8	Pn	04:59:55.512	0.5					T__				m_e	ML	3.3

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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