

DATA_TYPE BULLETIN IMS1.0

BGR Bulletin for Germany and adjacent areas

Event 91001002 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
2009/10/01	09:40:01.20	0.72	0.41	51.6800	7.6510				1.0f			7	304	0.55	1.49	m i ki	BNS	91001032
2009/10/01	09:40:01.10	0.50	0.11	51.6050	7.7530				1.0f			5	276			m i ki	GDNRW	91001022
2009/10/01	09:40:01.56	0.31	0.64	51.6140	7.7740	3.3	3.3	136	1.0f	13		8	082	0.36	1.63	m i ki	BGR	91001012
2009/10/01	09:39:59.70			51.6570	7.7770				1.0f				216	0.08	0.38	m i ki	BUG	91001002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.3		BNS	91001032
ML	2.0		GDNRW	91001022
ML	2.3	0.1	5 BGR	91001012
ML	2.4		BUG	91001002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.08	19.1	Pg	09:40:02.900	1.6					T__				m__	ML	2.0
BAHL	0.08	19.1	Sg	09:40:04.800	2.4					T__				m__		
SORT	0.33	158.4	Pg	09:40:07.312	1.4					___				m_e		
SORT	0.33	158.4	Sg	09:40:11.623	1.4					___		88.0	0.22	m_e		
BUG	0.38	235.8	Pg	09:40:07.900	1.0					TA__				mde	ML	2.4
BUG	0.38	235.8	Sg	09:40:13.800	1.9					TA__				m__		
ENTS	0.47	208.9	Pg	09:40:09.588	1.0					___				m_e		
ENTS	0.47	208.9	Sg	09:40:15.659	0.9					___		51.7	0.24	m_e		
LAUG	0.60	239.8	Pg	09:40:11.460	0.4					___				m_e		
IBBN	0.65	359.0	Sg	09:40:24.150	3.8					___				m_e	ML	2.2
WTSB	0.68	297.5	Pg	09:40:14.282	1.8					___				m_e		
WTSB	0.68	297.5	Sg	09:40:23.912	2.6					___				m_e		
HOBG	0.73	202.5	Pg	09:40:15.160	1.7					___				m_e		
WBS	0.91	200.2	Sg	09:40:29.313	0.8					___		30.5	0.16	m_e		
JCK	1.05	234.0	Sg	09:40:34.367	1.4					___		448.7	0.20	m_e		
AHRW	1.20	201.8	Pg	09:40:23.737	1.4					___				m_e	ML	2.3
AHRW	1.20	201.8	Sg	09:40:40.157	2.3					___				m_e		
STB	1.21	209.3	Pg	09:40:23.290	0.7					___				m_e		
STB	1.21	209.3	Sg	09:40:39.830	1.5					___		50.0	0.13	m_e		
KOE	1.23	181.3	Pg	09:40:23.750	0.8					___				m_e		
GSH	1.27	224.1	Pg	09:40:24.524	0.9					___				m_e		
GSH	1.27	224.1	Sg	09:40:40.875	0.8					___		43.2	0.19	m_e		
KLL	1.37	222.9	Pg	09:40:25.440	-0.0					___				m_e		
DREG	1.39	224.9	Pg	09:40:26.570	0.7					___				m_e		
HGN	1.46	233.0	Sg	09:40:46.642	0.5					___				m_e		
BGG	1.48	191.0	Pg	09:40:27.490	-0.1					___				m_e		
TNS	1.50	163.3	Pg	09:40:28.496	0.6					___				m_e	ML	2.2
TNS	1.50	163.3	Sg	09:40:47.440	0.2					___				m_e		
MEM	1.53	227.4	Sg	09:40:48.565	0.4					___				m_e		
CLZ	1.62	82.4	Pg	09:40:32.080	1.9					___				m_e	ML	2.3
CLZ	1.62	82.4	Sg	09:40:53.491	2.4					___				m_e		

Event 91002024 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/02	09:54:32.74	0.61	1.05	51.1070	19.1050	8.9	4.4	025	1.0f		18	12	245	0.99	4.26	m i ki	BGR	91002034

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.2	12 BGR	91002034

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
OJC	0.99	153.4	Pg	09:54:50.913	-0.5					T__	49.8			m_e ML	3.3
OJC	0.99	153.4	Sg	09:55:05.488	1.3					T__				m_e	
OKC	1.41	206.0	Pn	09:54:58.007	-0.8					T__	3.2			m_e ML	2.9
OKC	1.41	206.0	Sg	09:55:18.745	1.3					T__				m_e	
MORC	1.66	217.4	Pn	09:55:01.053	-1.2					T__	21.2			m_e ML	3.0
MORC	1.66	217.4	Sg	09:55:23.744	-1.8					T__				m_e	
KSP	1.79	262.6	Sg	09:55:30.908	1.3					T__				m_e ML	2.9
DPC	1.92	247.8	Pn	09:55:04.665	-1.0					T__	11.7			m_e ML	3.1
DPC	1.92	247.8	Sn	09:55:29.526	0.4					T__				m_e	
VRAC	2.41	222.8	Pn	09:55:12.513	0.1					T__	8.2			m_e ML	3.2
VRAC	2.41	222.8	Sg	09:55:49.585	0.2					T__				m_e	
JAVC	2.43	202.9	Pn	09:55:14.203	1.6					T__	1.5			m_e ML	2.8
KRUC	2.68	221.4	Pn	09:55:15.561	-0.5					T__	3.1			m_e ML	3.0
KRUC	2.68	221.4	Sg	09:55:56.978	-1.0					T__				m_e	
PRU	3.11	250.7	Pn	09:55:20.724	-1.1					T__	2.0			m_e ML	3.0
BRG	3.26	267.9	Sg	09:56:16.023	-0.2					T__				m_e ML	3.1
KHC	4.06	243.0	Pn	09:55:33.935	-0.8					T__	2.1			m_e ML	3.2
TANN	4.26	263.2	Sg	09:56:49.302	1.3					T__				m_e ML	3.4

Event 91004008 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/04	11:03:08.45	0.30	0.80	51.5030	16.0260	3.3	2.2	017	1.0f		57	23	199	0.68	3.55	m i ki	BGR	91004018

Magnitude	Err	Nsta	Author	OrigID
ML	3.2	0.3	23 BGR	91004018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.68	165.6	Pg	11:03:21.153	-0.1					T__	17.4			m_e ML	2.7
KSP	0.68	165.6	Sg	11:03:30.801	0.7					T__				m_e	
DPC	1.17	170.7	Pg	11:03:30.020	-0.4					T__	50.2			m_e ML	3.5
DPC	1.17	170.7	Sg	11:03:45.944	0.4					T__				m_e	
PVCC	1.34	223.8	Pn	11:03:33.275	-0.3					T__	2.5			m_e ML	3.7
PVCC	1.34	223.8	Pg	11:03:33.842	0.2					T__	50.6			m_e	
PVCC	1.34	223.8	Sg	11:03:52.423	1.5					T__				m_e	
BRG	1.45	245.1	Pg	11:03:35.745	-0.0					T__	31.2			m_e ML	3.2
BRG	1.45	245.1	Sg	11:03:55.462	1.0					T__				m_e	
FBE	1.77	251.9	Pg	11:03:41.405	-0.4					T__	8.4			m_e ML	2.3
FBE	1.77	251.9	Sg	11:04:05.233	0.5					T__				m_e	
PRU	1.78	212.4	Pn	11:03:39.186	-0.4					T__	6.1			m_e ML	2.9
PRU	1.78	212.4	Sg	11:04:05.302	0.2					T__				m_e	
CLL	1.90	265.3	Pn	11:03:40.099	-1.0					T__	7.1			m_e ML	3.1
CLL	1.90	265.3	Pg	11:03:43.625	-0.6					T__	3.2			m_e	
CLL	1.90	265.3	Sg	11:04:08.260	-0.4					T__				m_e	
MORC	1.98	150.3	Pn	11:03:41.499	-0.7					T__	6.5			m_e ML	2.9

MORC	1.98	150.3	Pg	11:03:44.540	-1.1	T__	14.7	m_e											
MORC	1.98	150.3	Sg	11:04:10.062	-1.2	T__		m_e											
OKC	2.14	140.3	Pg	11:03:49.009	0.2	T__	4.5	m_e	ML	3.3									
OKC	2.14	140.3	Sg	11:04:15.888	-0.6	T__		m_e											
VRAC	2.22	170.4	Pn	11:03:45.956	0.4	T__	6.5	m_e	ML	2.9									
VRAC	2.22	170.4	Sg	11:04:19.785	0.7	T__		m_e											
KRUC	2.45	174.3	Pn	11:03:49.466	0.8	T__	4.2	m_e	ML	2.9									
KRUC	2.45	174.3	Pg	11:03:53.458	-1.2	T__	6.1	m_e											
KRUC	2.45	174.3	Sg	11:04:27.325	1.0	T__		m_e											
TANN	2.49	245.5	Pn	11:03:49.507	0.3	T__	7.1	m_e	ML	3.4									
TANN	2.49	245.5	Pg	11:03:56.456	1.0	T__	3.2	m_e											
TANN	2.49	245.5	Sg	11:04:27.350	-0.3	T__		m_e											
WERD	2.57	247.2	Pn	11:03:50.406	0.2	T__	3.5	m_e	ML	3.2									
WERD	2.57	247.2	Pg	11:03:55.949	-0.9	T__	5.3	m_e											
WERD	2.57	247.2	Sg	11:04:29.248	-0.8	T__		m_e											
OJC	2.70	116.9	Pn	11:03:51.729	-0.3	T__	1.5	m_e	ML	3.3									
OJC	2.70	116.9	Pg	11:03:59.637	0.2	T__	8.0	m_e											
OJC	2.70	116.9	Sg	11:04:34.810	0.4	T__		m_e											
KHC	2.84	214.3	Pn	11:03:53.816	-0.1	T__	7.7	m_e	ML	3.0									
KHC	2.84	214.3	Pg	11:04:00.469	-1.5	T__	3.5	m_e											
KHC	2.84	214.3	Sg	11:04:38.208	-0.5	T__		m_e											
JAVC	2.85	157.6	Pn	11:03:55.784	1.8	T__	3.7	m_e	ML	3.2									
JAVC	2.85	157.6	Pg	11:04:02.062	-0.0	T__	3.3	m_e											
JAVC	2.85	157.6	Sg	11:04:39.673	0.8	T__		m_e											
MOX	2.90	254.5	Pn	11:03:54.383	-0.3	T__	2.4	m_e	ML	3.6									
MOX	2.90	254.5	Pg	11:04:02.866	-0.2	T__	4.4	m_e											
MOX	2.90	254.5	Sg	11:04:40.968	0.4	T__		m_e											
MANZ	2.91	240.1	Pn	11:03:55.545	0.7	T__	9.6	m_e	ML	3.3									
MANZ	2.91	240.1	Pg	11:04:03.670	0.5	T__	1.6	m_e											
MANZ	2.91	240.1	Sg	11:04:40.984	0.2	T__		m_e											
ROTZ	2.98	235.9	Pn	11:03:56.459	0.7	T__	10.1	m_e	ML	3.1									
ROTZ	2.98	235.9	Sg	11:04:42.329	-0.8	T__		m_e											
GEC2	3.05	210.2	Pn	11:03:57.905	1.2	T__	7.7	m_e	ML	3.3									
GEC2	3.05	210.2	Pg	11:04:04.179	-1.7	T__	3.4	m_e											
GEC2	3.05	210.2	Sg	11:04:45.279	0.1	T__		m_e											
WET	3.10	221.6	Pn	11:03:58.027	0.6	T__	8.1	m_e	ML	3.2									
WET	3.10	221.6	Sg	11:04:46.601	-0.3	T__		m_e											
CLZ	3.52	277.7	Pn	11:04:03.737	0.6	T__	2.9	m_e	ML	3.4									
CLZ	3.52	277.7	Sg	11:05:01.744	1.4	T__		m_e											
GRA1	3.55	241.2	Sg	11:05:02.571	1.5	T__		m_e	ML	3.6									

Event 91004015 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/04	16:57:48.34	0.33	0.81	51.4700	16.0980	3.3	2.2	018	1.0f		46	23	199	0.64	3.57	m i ki	BGR	91004025

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.4	23 BGR	91004025

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.64	168.9	Pg	16:58:00.350	-0.0					T__	38.6			m_e	ML 2.4
KSP	0.64	168.9	Sg	16:58:09.723	1.1					T__				m_e	

DPC	1.13	172.7	Pg	16:58:09.214	-0.4	T__	71.5	m_e	ML	3.3
DPC	1.13	172.7	Sg	16:58:24.830	0.6	T__		m_e		
PVCC	1.35	226.2	Pg	16:58:13.914	0.2	T__	32.3	m_e	ML	3.8
PVCC	1.35	226.2	Sg	16:58:32.244	1.1	T__		m_e		
BRG	1.48	247.0	Pg	16:58:15.358	-0.8	T__	25.8	m_e	ML	3.1
BRG	1.48	247.0	Sg	16:58:35.935	0.7	T__		m_e		
PRU	1.78	214.2	Pn	16:58:18.781	-0.6	T__	1.7	m_e	ML	2.9
PRU	1.78	214.2	Sg	16:58:44.971	0.1	T__		m_e		
FBE	1.80	253.4	Pg	16:58:21.455	-0.9	T__	12.3	m_e	ML	2.2
FBE	1.80	253.4	Sg	16:58:45.750	0.1	T__		m_e		
MORC	1.93	151.0	Pn	16:58:20.562	-0.8	T__	11.5	m_e	ML	2.8
MORC	1.93	151.0	Sg	16:58:48.694	-0.8	T__		m_e		
CLL	1.94	266.4	Pn	16:58:20.165	-1.4	T__	4.6	m_e	ML	3.0
CLL	1.94	266.4	Pg	16:58:23.768	-1.1	T__	4.9	m_e		
CLL	1.94	266.4	Sg	16:58:50.311	0.4	T__		m_e		
OKC	2.09	140.7	Pn	16:58:22.227	-1.4	T__	1.6	m_e	ML	3.1
OKC	2.09	140.7	Pg	16:58:26.472	-1.2	T__	3.6	m_e		
OKC	2.09	140.7	Sg	16:58:54.566	-0.1	T__		m_e		
VRAC	2.18	171.5	Pn	16:58:25.378	0.5	T__	6.4	m_e	ML	2.8
VRAC	2.18	171.5	Sg	16:58:58.081	0.3	T__		m_e		
KRUC	2.42	175.4	Pn	16:58:28.463	0.4	T__	4.2	m_e	ML	2.9
KRUC	2.42	175.4	Pg	16:58:32.841	-1.0	T__	6.3	m_e		
KRUC	2.42	175.4	Sg	16:59:05.620	0.5	T__		m_e		
TANN	2.52	246.7	Pn	16:58:29.886	0.4	T__	4.3	m_e	ML	3.4
TANN	2.52	246.7	Sg	16:59:09.120	0.7	T__		m_e		
WERD	2.60	248.3	Pn	16:58:30.469	-0.0	T__	3.3	m_e	ML	3.1
WERD	2.60	248.3	Sg	16:59:09.862	-1.0	T__		m_e		
OJC	2.65	116.7	Sg	16:59:13.296	0.8	T__		m_e	ML	3.2
JAVC	2.80	158.3	Pn	16:58:34.885	1.7	T__	6.8	m_e	ML	3.1
KHC	2.84	215.5	Pn	16:58:33.859	0.1	T__	4.5	m_e	ML	3.1
KHC	2.84	215.5	Sg	16:59:18.205	-0.3	T__		m_e		
MANZ	2.93	241.1	Pn	16:58:36.194	1.2	T__	5.1	m_e	ML	3.3
MANZ	2.93	241.1	Sg	16:59:21.408	0.0	T__		m_e		
MOX	2.94	255.4	Pn	16:58:34.976	-0.1	T__	2.5	m_e	ML	3.4
MOX	2.94	255.4	Sg	16:59:21.996	0.4	T__		m_e		
ROTZ	3.00	236.9	Pn	16:58:36.231	0.3	T__	5.3	m_e	ML	3.3
ROTZ	3.00	236.9	Sg	16:59:23.470	-0.1	T__		m_e		
GEC2	3.04	211.2	Pn	16:58:37.004	0.5	T__	7.5	m_e	ML	3.4
GEC2	3.04	211.2	Sg	16:59:24.061	-0.9	T__		m_e		
WET	3.10	222.7	Sg	16:59:26.351	-0.6	T__		m_e	ML	3.3
GRA1	3.57	242.0	Pn	16:58:45.517	1.8	T__	1.9	m_e	ML	3.7
GRA1	3.57	242.0	Sg	16:59:42.763	1.0	T__		m_e		
CLZ	3.57	278.2	Pn	16:58:44.291	0.6	T__	4.1	m_e	ML	3.4
CLZ	3.57	278.2	Sg	16:59:42.675	0.9	T__		m_e		

Event 91004018 SE of Vesoul/F

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/04	19:27:03.00			47.4000	6.5000				19.0							m i uk	SED	91004038
2009/10/04	19:27:02.30	0.04	0.38	47.4306	6.4504	1.0	0.8	123	16.2	0.6	59	21	061			m i ke	LDG	91004028
2009/10/04	19:27:01.49	1.07	0.76	47.4400	6.4540	11.1	6.7	057	10.0f		12	6	291	0.85	2.03	m i ke	BGR	91004018

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.9		SED	91004038
MD	2.9	0.1	2 LDG	91004028
ML	2.3	0.4	21 LDG	91004028
ML	1.8	0.0	1 BGR	91004018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	0.85	96.6	Pg	19:27:18.388	0.9					T__	36.2			m_e	
BALST	0.85	96.6	Sg	19:27:29.407	0.9					T__				m_e	
ECH	0.91	31.1	Pg	19:27:19.614	0.9					T__	2.6			m_e	
ECH	0.91	31.1	Sg	19:27:30.173	-0.3					T__				m_e	
SULZ	1.12	84.9	Pg	19:27:21.605	-1.2					T__	3.1			m_e	
SULZ	1.12	84.9	Sg	19:27:37.519	0.2					T__				m_e	
SLE	1.41	75.9	Pn	19:27:25.363	-1.2					T__	2.5			m_e	
SLE	1.41	75.9	Pg	19:27:27.941	-0.2					T__	6.6			m_e	
SLE	1.41	75.9	Sg	19:27:45.796	-0.7					T__				m_e	
BFO	1.54	54.0	Pg	19:27:31.645	1.1					T__	3.0			m_e	ML 1.8
BFO	1.54	54.0	Sg	19:27:50.792	0.3					T__				m_e	
PLONS	2.03	100.1	Sg	19:28:05.964	0.1					T__				m_e	

Event 91006007 Recklinghausen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/06	19:32:00.00	0.69	0.31	51.7560	7.0900				1.0f			6	316	0.42	1.49	m i ki	BNS	91006027
2009/10/06	19:32:01.20	1.37	1.52	51.6820	7.2810	25.6	8.9	141	1.0f		5	5	244	0.24	2.14	m i ki	BGR	91006017
2009/10/06	19:32:01.10			51.6670	7.0490				1.0f				261	0.12	0.26	m i ki	BUG	91006007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.1		BNS	91006027
ML	2.3	0.3	4 BGR	91006017
ML	1.9		BUG	91006007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ZERL	0.12	247.5	Pg	19:32:04.400	1.0					T__				m__	ML 1.1
ZERL	0.12	247.5	Sg	19:32:08.300	3.4					T__				m__	
BUG	0.26	148.7	Pg	19:32:07.100	1.0					TA_				m_e	ML 1.9
BUG	0.26	148.7	Sg	19:32:11.500	2.0					TA_				m__	
LAUG	0.32	191.7	Sg	19:32:13.880	2.5					---				m_e	
HOBG	0.71	165.3	Pg	19:32:14.680	0.3					---				m_e	
KLL	1.12	204.7	Pg	19:32:22.490	0.3					---				m_e	
KLL	1.12	204.7	Sg	19:32:39.030	2.3					---				m_e	
AHRW	1.13	179.1	Pg	19:32:23.252	0.9					---				m_e	ML 2.7
AHRW	1.13	179.1	Sg	19:32:39.503	2.6					---				m_e	
DREG	1.13	207.3	Pg	19:32:22.630	0.3					---				m_e	
KOE	1.31	160.7	Sg	19:32:43.830	1.0					---				m_e	
HILG	1.39	189.8	Sg	19:32:46.300	0.9					---				m_e	
TNS	1.69	148.1	Sg	19:32:52.796	-2.1					---				m_e	ML 2.4
CLZ	2.06	83.8	Sg	19:33:01.877	-4.8					---				m_e	ML 2.4
WLF	2.08	196.2	Pg	19:32:42.698	2.4					---				m_e	

Event 91007009 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/07	09:32:26.20	0.12	1.00	51.4916	6.5868	2.7	1.9	142	1.0f		65	23	093			m i sr	LDG	91007049
2009/10/07	09:32:26.30	0.78	0.31	51.4980	6.5640				1.0f			9	267	0.28	1.30	m i ki	BNS	91007039
2009/10/07	09:32:25.80	0.52	0.11	51.5050	6.5970				2.0	3.5		9	245			m i ki	GDNRW	91007029
2009/10/07	09:32:26.93	0.25	1.05	51.4790	6.6160	4.4	3.3	142	1.0f		24	13	087	0.41	3.28	m i ki	BGR	91007019
2009/10/07	09:32:25.20			51.4470	6.5540				1.0f				278	0.07	0.45	m i ki	BUG	91007009

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.4	0.3	2 LDG	91007049
ML	3.6	0.2	20 LDG	91007049
ML	2.9		BNS	91007039
ML	2.8		GDNRW	91007029
ML	3.1	0.2	8 BGR	91007019
ML	3.0		BUG	91007009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRHE	0.07	8.8	Pg	09:32:26.400	-0.1					T_				m_	ML 2.6
BRHE	0.07	8.8	Sg	09:32:27.400	-0.0					T_				m_	
LAUG	0.26	111.4	Pg	09:32:31.430	1.3									m_e	
RODG	0.38	217.8	Pg	09:32:34.810	2.4									m_e	
RWB	0.43	216.0	Pg	09:32:35.580	2.3									m_e	
RWB	0.43	216.0	Sg	09:32:42.465	3.7							1019.2	0.17	m_e	
BUG	0.45	90.5	Pg	09:32:34.500	0.9					TA_				mde	ML 3.0
BUG	0.45	90.5	Sg	09:32:41.300	1.9					TA_				m_	
OPLO	0.45	291.1	Pg	09:32:36.232	2.5						2.9			m_e	
OPLO	0.45	291.1	Sg	09:32:43.744	4.1									m_e	
WTSB	0.54	16.2	Pg	09:32:35.977	0.6						7.7			m_e	
ENTS	0.57	110.7	Pg	09:32:37.233	1.2									m_e	
ENTS	0.57	110.7	Sg	09:32:45.032	1.6									m_e	
BNS	0.62	140.9	Pg	09:32:39.070	2.2									m_e	
HOBG	0.67	133.2	Pg	09:32:39.830	1.9									m_e	
GSH	0.72	188.8	Pg	09:32:40.797	2.0									m_e	
GSH	0.72	188.8	Sg	09:32:51.568	3.5							334.9	0.20	m_e	
HGN	0.79	210.0	Pg	09:32:42.032	2.0						295.2			m_e	
HGN	0.79	210.0	Sg	09:32:53.561	3.4									m_e	
WBS	0.79	144.2	Pg	09:32:41.728	1.7									m_e	
WBS	0.79	144.2	Sg	09:32:52.754	2.5							439.4	0.19	m_e	
DREG	0.81	194.6	Pg	09:32:42.420	2.0									m_e	
DREG	0.81	194.6	Sg	09:32:54.930	4.0							323.5	0.28	m_e	
KLL	0.81	190.9	Pg	09:32:42.530	2.0									m_e	
KLL	0.81	190.9	Sg	09:32:54.860	3.8									m_e	
STB	0.87	168.0	Pg	09:32:44.140	2.5									m_e	
STB	0.87	168.0	Sg	09:32:56.760	3.9							450.6	0.28	m_e	
SORT	0.89	95.7	Pg	09:32:42.590	0.6									m_e	
SORT	0.89	95.7	Sg	09:32:54.556	1.1									m_e	
MEM	0.91	202.6	Pg	09:32:44.136	1.9						67.8			m_e	
MEM	0.91	202.6	Sg	09:32:57.326	3.3									m_e	
TDN	0.91	164.1	Pg	09:32:44.524	2.2									m_e	
TDN	0.91	164.1	Sg	09:32:57.275	3.3							153.7	0.16	m_e	

OLFT	0.96	185.1	Pg	09:32:45.175	1.9	---												m_e	
OLFT	0.96	185.1	Sg	09:32:59.021	3.4	---												m_e	
AHRW	0.96	159.9	Pg	09:32:45.633	2.3	---				35.7								m_e ML	2.8
AHRW	0.96	159.9	Sg	09:33:00.049	4.2	---												m_e	
IBBN	1.14	40.4	Pg	09:32:47.229	0.6	---				2.8								m_e ML	3.0
IBBN	1.14	40.4	Sg	09:33:01.933	0.6	---												m_e	
HILG	1.16	176.1	Pg	09:32:49.230	2.2	---												m_e	
BHE	1.16	159.9	Pg	09:32:49.167	2.0	---												m_e	
BHE	1.16	159.9	Sg	09:33:04.956	2.8	---						126.9	0.33					m_e	
KOE	1.26	143.5	Pg	09:32:49.980	1.0	---												m_e	
LOH	1.26	180.5	Pg	09:32:50.762	1.7	---												m_e	
LOH	1.26	180.5	Sg	09:33:08.320	2.9	---						230.3	0.25					m_e	
TNS	1.71	134.9	Pn	09:32:56.645	1.3	---				10.0								m_e ML	3.2
TNS	1.71	134.9	Sg	09:33:22.904	3.3	---												m_e	
WLF	1.80	188.3	Pn	09:33:00.562	4.0	---				5.6								m_e ML	3.4
WLF	1.80	188.3	Sg	09:33:23.888	1.5	---												m_e	
GTTG	2.13	86.0	Pg	09:33:05.245	-0.0	---				2.9								m_e ML	3.3
GTTG	2.13	86.0	Sg	09:33:32.945	0.2	---												m_e	
UBBA	2.25	104.8	Pn	09:33:04.396	1.7	---				1.8								m_e ML	2.8
UBBA	2.25	104.8	Sg	09:33:37.606	0.9	---												m_e	
CLZ	2.40	79.1	Pg	09:33:10.253	-0.2	---				6.3								m_e ML	3.2
ECH	3.25	172.9	Pn	09:33:17.821	1.5	---				2.5								m_e	
ECH	3.25	172.9	Pg	09:33:26.328	-0.2	---				3.3								m_e	

Event 91012009 Saeckingen, NE of Liestal/CH, Swiss-German border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/12	01:37:39.00	0.04	0.51	47.5408	7.7121	0.8	0.6	156	20.0f		48	16	090			m i ke	LDG	91012039
2009/10/12	01:37:39.40			47.5400	7.7200				19.0							m i uk	SED	91012029
2009/10/12	01:37:39.72	0.38	0.35	47.5740	7.7050	3.3	3.3	058	10.0f		13	7	149	0.24	1.25	m i ke	BGR	91012019
2009/10/12	01:37:39.65	0.15	0.15	47.5610	7.7070	2.6	1.1	134	17.0	2.5	20	9	153	0.16	2.19	m i ke	LED	91012009

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	2.0	0.0	3 LDG	91012039
ML	2.1	0.4	15 LDG	91012039
ML	2.0		SED	91012029
ML	1.6	0.0	1 BGR	91012019
ML	1.9	0.2	9 LED	91012009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BBS	0.16	234.2	P*	01:37:44.010						T_				mci	
BBS	0.16	234.2	S*	01:37:47.130						T_				m_	
BALST	0.23	182.1	Pg	01:37:44.623	-0.2					---				m_e	
BALST	0.23	182.1	Sg	01:37:48.055	-0.2					---				m_e	
SULZ	0.28	96.6	Pg	01:37:45.306	-0.3					---				m_e	
SULZ	0.28	96.6	Sg	01:37:49.593	-0.1					---				m_e	
FELD	0.37	32.3	P*	01:37:47.440						T_				mdi	
FELD	0.37	32.3	S*	01:37:52.910						T_				m_i	
KIZ	0.42	19.7	P*	01:37:48.140						T_				mdi ML	2.2
KIZ	0.42	19.7	PmP	01:37:48.270	-2.1					---				m_	
KIZ	0.42	19.7	S*	01:37:54.130						T_				m_i	

IBBN	0.67	32.6	Sg	22:41:11.134	1.9	---	m_e												
HOBG	0.77	172.3	Pg	22:41:03.310	0.8	---	m_e												
HOBG	0.77	172.3	Sg	22:41:14.540	2.1	---	m_e												
STB	1.17	190.3	Pg	22:41:10.350	0.3	---	m_e												
STB	1.17	190.3	Sg	22:41:27.120	2.0	---	m_e												
AHRW	1.21	182.8	Pg	22:41:11.337	0.6	---	m_e	ML	2.6										
AHRW	1.21	182.8	Sg	22:41:27.897	1.6	---	m_e												
KLL	1.22	206.4	Sg	22:41:27.920	1.1	---	m_e												
DREG	1.23	208.8	Pg	22:41:10.910	-0.3	---	m_e												
DREG	1.23	208.8	Sg	22:41:27.840	0.7	---	m_e												
HGN	1.25	218.8	Pg	22:41:11.168	-0.4	---	m_e												
HGN	1.25	218.8	Sg	22:41:28.326	0.6	---	m_e												
MEM	1.35	213.2	Pg	22:41:13.162	-0.3	---	m_e												
MEM	1.35	213.2	Sg	22:41:31.159	0.3	---	m_e												
KOE	1.37	164.8	Pg	22:41:13.870	0.1	---	m_e												
HILG	1.49	192.2	Sg	22:41:34.090	-1.1	---	m_e												
BGG	1.54	176.0	Sg	22:41:36.260	-0.7	---	m_e												
TNS	1.72	151.7	Pg	22:41:21.617	1.2	---	m_e	ML	2.5										
TNS	1.72	151.7	Sg	22:41:43.485	0.8	---	m_e												
WLF	2.18	197.6	Sg	22:41:57.647	0.5	---	m_e	ML	2.4										

Event 91015003 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/15	04:30:16.02	0.40	0.65	51.5240	16.1550	5.6	2.2	015	1.0f		31	15	201	0.69	3.63	m i ki	BGR	91015013

Magnitude	Err	Nsta	Author	OrigID
ML	4.1	0.3	15 BGR	91015013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.69	172.7	Pg	04:30:29.132	0.2					T_				m_e ML	3.4
KSP	0.69	172.7	Sg	04:30:38.382	0.6					T_				m_e	
DPC	1.18	174.8	Pg	04:30:37.953	-0.3					T_				m_e ML	4.2
DPC	1.18	174.8	Sg	04:30:54.025	0.6					T_				m_e	
BRG	1.53	245.7	Pn	04:30:42.868	-0.9					T_				m_e ML	4.1
BRG	1.53	245.7	Pg	04:30:44.900	0.0					T_				m_e	
BRG	1.53	245.7	Sg	04:31:04.761	0.1					T_				m_e	
FBE	1.85	252.1	Pn	04:30:47.781	-0.3					T_				m_e ML	3.3
FBE	1.85	252.1	Pg	04:30:50.440	-0.5					T_				m_e	
FBE	1.85	252.1	Sg	04:31:14.843	-0.1					T_				m_e	
CLL	1.98	265.0	Pn	04:30:48.970	-0.8					T_				m_e ML	4.0
OKC	2.11	142.4	Pn	04:30:50.958	-0.6					T_				m_e ML	4.0
OKC	2.11	142.4	Sg	04:31:21.879	-1.1					T_				m_e	
TANN	2.58	245.9	Pn	04:30:58.218	0.3					T_				m_e ML	4.3
TANN	2.58	245.9	Pg	04:31:05.184	0.6					T_				m_e	
TANN	2.58	245.9	Sg	04:31:37.412	-0.5					T_				m_e	
OJC	2.64	118.1	Pn	04:30:57.604	-1.2					T_				m_e ML	4.3
OJC	2.64	118.1	Pg	04:31:06.089	0.3					T_				m_e	
OJC	2.64	118.1	Sg	04:31:40.721	0.7					T_				m_e	
WERD	2.65	247.5	Pn	04:30:59.043	0.1					T_				m_e ML	4.2
WERD	2.65	247.5	Pg	04:31:05.718	-0.3					T_				m_e	
WERD	2.65	247.5	Sg	04:31:40.088	-0.1					T_				m_e	

MANZ	2.99	240.6	Pn	04:31:03.968	0.5	T__	m_e	ML	4.4
MANZ	2.99	240.6	Pg	04:31:12.730	0.4	T__	m_e		
ROTZ	3.06	236.5	Pn	04:31:04.895	0.5	T__	m_e	ML	4.0
ROTZ	3.06	236.5	Pg	04:31:12.437	-1.2	T__	m_e		
GEC2	3.11	211.3	Pn	04:31:05.456	0.4	T__	m_e	ML	4.2
WET	3.17	222.6	Pn	04:31:06.345	0.4	T__	m_e	ML	4.1
CLZ	3.60	277.3	Pn	04:31:12.801	1.0	T__	m_e	ML	4.3
GRA1	3.63	241.6	Pn	04:31:13.079	0.9	T__	m_e	ML	4.7
GRA1	3.63	241.6	Pg	04:31:25.428	1.1	T__	m_e		

Event 91015006 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
2009/10/15	15:46:34.50	0.60	0.21	51.5720	7.7290				1.0f			8	294	0.54	1.44	m i ki	BNS	91015026
2009/10/15	15:46:33.86	0.40	0.62	51.6080	7.7180	5.6	4.4	132	1.0f		13	9	080	0.33	1.66	m i ki	BGR	91015016
2009/10/15	15:46:32.40			51.6010	7.7280				1.0f							m i ki	BUG	91015006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	91015026
ML	2.1	0.1	5 BGR	91015016
ML	1.8		BUG	91015006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BUG	0.33	240.8	Pg	15:46:39.600	1.0					TA_				mde	ML 1.8
BUG	0.33	240.8	Sg	15:46:44.800	2.0					TA_				m__	
LAUG	0.55	243.2	Pg	15:46:44.970	2.2					---				m_e	
HOBG	0.66	201.9	Pg	15:46:46.880	1.9					---				m_e	
WTSB	0.68	302.8	Pg	15:46:46.895	1.7					---				m_e	
IBBN	0.71	1.5	Pg	15:46:47.949	2.3					---				m_e	ML 2.1
BNS	0.72	208.7	Pg	15:46:47.770	1.7					---				m_e	
AHRW	1.14	201.4	Pg	15:46:55.732	1.9					---				m_e	ML 2.2
AHRW	1.14	201.4	Sg	15:47:11.539	3.0					---				m_e	
STB	1.15	209.3	Pg	15:46:55.120	1.0					---				m_e	
STB	1.15	209.3	Sg	15:47:10.910	1.9					---		55.1	0.44	m_e	
OPLO	1.15	271.1	Sg	15:47:10.258	1.3					---				m_e	
KOE	1.18	179.9	Pg	15:46:55.850	1.3					---				m_e	
KLL	1.30	223.5	Pg	15:46:57.580	0.6					---				m_e	
KLL	1.30	223.5	Sg	15:47:14.510	0.7					---		11.2	0.36	m_e	
DREG	1.33	225.6	Pg	15:46:57.970	0.6					---				m_e	
HGN	1.40	234.1	Pn	15:46:59.033	0.7					---				m_e	
HGN	1.40	234.1	Sg	15:47:18.332	1.4					---				m_e	
TNS	1.45	161.5	Pn	15:47:00.144	1.1					---				m_e	ML 2.1
HILG	1.47	207.2	Pg	15:47:00.500	0.5					---				m_e	
MEM	1.47	228.1	Pn	15:47:00.165	0.9					---				m_e	
MEM	1.47	228.1	Sg	15:47:19.985	1.0					---				m_e	
CLZ	1.66	80.6	Pn	15:47:02.842	1.1					---				m_e	ML 2.2

Event 91017006 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
2009/10/17	14:43:10.70	0.93	0.41	51.6940	7.6470				1.0f				8 305	0.56	1.53	m i ki	BNS	91017026
2009/10/17	14:43:11.37	0.36	0.63	51.5980	7.8150	4.4	4.4	120	1.0f		8	4 112		0.37	1.60	m i ki	BGR	91017016
2009/10/17	14:43:09.40			51.6170	7.8010				1.0f				236	0.12	0.37	m i ki	BUG	91017006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	91017026
ML	2.1 0.2	4	BGR	91017016
ML	1.8		BUG	91017006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.12	6.1	Pg	14:43:12.300	0.6					T__				m__	ML 2.2
BAHL	0.12	6.1	Sg	14:43:14.400	1.2					T__				m__	
BUG	0.37	242.1	Pg	14:43:17.400	0.9					TA__				mce	ML 1.8
BUG	0.37	242.1	Sg	14:43:23.300	2.0					TA__				m__	
LAUG	0.60	243.8	Pg	14:43:21.130	0.5					---				m_e	
IBBN	0.69	357.9	Pg	14:43:25.676	3.3					---				m_e	ML 2.2
IBBN	0.69	357.9	Sg	14:43:33.973	2.7					---				m_e	
HOBG	0.70	204.9	Pg	14:43:24.360	1.8					---				m_e	
HOBG	0.70	204.9	Sg	14:43:35.290	3.7					---				m_e	
STB	1.19	210.9	Pg	14:43:33.200	1.4					---				m_e	
KOE	1.19	182.1	Pg	14:43:33.410	1.5					---				m_e	
KLL	1.35	224.5	Pg	14:43:35.170	0.4					---				m_e	
DREG	1.37	226.5	Pg	14:43:35.760	0.5					---				m_e	
BGG	1.44	191.9	Pg	14:43:37.820	1.3					---				m_e	
TNS	1.45	163.5	Pg	14:43:38.228	1.4					---				m_e	ML 1.9
TNS	1.45	163.5	Sg	14:43:57.588	2.0					---				m_e	
HILG	1.50	208.5	Pg	14:43:38.330	0.6					---				m_e	
CLZ	1.61	81.0	Pg	14:43:40.778	1.1					---				m_e	ML 2.3
CLZ	1.61	81.0	Sg	14:44:02.587	2.1					---				m_e	

Event 91019004 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
2009/10/19	00:41:49.20	0.26	0.11	51.6020	7.5700				1.0f				8 297	0.46	1.43	m i ki	BNS	91019024
2009/10/19	00:41:47.45	0.76	0.37	51.7390	7.6180	8.9	2.2	151	1.0f		13	9 229		0.37	3.38	m i ki	BGR	91019014
2009/10/19	00:41:47.10			51.6370	7.6880				1.0f				193	0.13	0.33	m i ki	BUG	91019004

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	91019024
ML	2.1 0.2	7	BGR	91019014
ML	1.7		BUG	91019004

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BAHL	0.13	39.6	Pg	00:41:51.100	1.5					T__				m__	ML 1.4
BAHL	0.13	39.6	Sg	00:41:53.900	2.7					T__				m__	
BUG	0.33	233.1	Pg	00:41:54.300	1.1					TA__				mde	ML 1.7
BUG	0.33	233.1	Sg	00:41:59.500	2.0					TA__				m__	
LAUG	0.54	238.6	Pg	00:41:58.110	0.7					---				m_e	
HOBG	0.69	198.9	Pg	00:42:01.410	1.3					---				m_e	

AHRW	1.16	199.6	Pg	00:42:10.511	1.5	---	m_e	ML	2.1
AHRW	1.16	199.6	Sg	00:42:26.924	2.9	---	m_e		
STB	1.17	207.4	Pg	00:42:09.820	0.7	---	m_e		
KOE	1.21	178.7	Pg	00:42:11.000	1.1	---	m_e		
KLL	1.31	221.6	Pg	00:42:12.230	0.4	---	m_e		
DREG	1.33	223.7	Pg	00:42:12.490	0.2	---	m_e		
GTTG	1.42	92.8	Pg	00:42:15.485	1.7	---	m_e	ML	2.2
BGG	1.45	188.9	Pg	00:42:14.250	-0.1	---	m_e		
HILG	1.49	205.7	Sg	00:42:33.170	-1.2	---	m_e		
TNS	1.49	161.0	Pn	00:42:15.881	1.6	---	m_e	ML	2.2
UBBA	1.66	118.6	Sg	00:42:43.184	3.2	---	m_e	ML	1.7
CLZ	1.67	81.9	Pg	00:42:19.451	0.8	---	m_e	ML	2.2
CLZ	1.67	81.9	Sg	00:42:42.358	2.1	---	m_e		
WLF	2.20	206.9	Sn	00:42:52.830	2.7	---	m_e	ML	2.3
WLF	2.20	206.9	Sg	00:42:59.444	2.5	---	m_e		
TANN	3.24	110.3	Sg	00:43:33.205	3.1	---	m_e		
CLL	3.33	93.6	Pg	00:42:50.780	1.0	---	m_e		

Event 91019007 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/19	10:08:50.19	0.90	0.83	44.8080	9.6320	13.3	10.0	019	10.0f		23	16	289	2.48	7.05	m i ke	BGR	91019007

Magnitude	Err	Nsta	Author	OrigID
ML	4.4	0.2	8 BGR	91019007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
DAVA	2.48	3.9	Pn	10:09:30.807	1.0					T_				m_e	ML 4.3
DAVA	2.48	3.9	Pg	10:09:37.851	0.8					T_				m_e	
DAVA	2.48	3.9	Sn	10:09:56.670	-1.5					T_				m_e	
OBER	2.64	9.8	Pn	10:09:32.437	0.6					T_				m_e	ML 4.1
OBER	2.64	9.8	Pg	10:09:40.351	0.4					T_				m_e	
WTTA	2.82	28.8	Pn	10:09:35.280	0.9					T_				m_e	ML 4.4
WTTA	2.82	28.8	Pg	10:09:42.586	-0.8					T_				m_e	
KBA	3.44	47.3	Pn	10:09:42.761	0.1					T_				m_e	ML 4.3
FUR	3.54	18.0	Pn	10:09:44.110	0.0					T_				m_e	ML 4.8
BFO	3.63	346.2	Pn	10:09:44.932	-0.4					T_				m_e	ML 4.2
BFO	3.63	346.2	Pg	10:09:57.374	-1.3					T_				m_e	
RJOB	3.65	35.6	Pn	10:09:45.576	-0.1					T_				m_e	ML 4.4
RJOB	3.65	35.6	Sn	10:10:26.714	1.0					T_				m_e	
STU	3.97	355.8	Pn	10:09:49.402	-0.6					T_				m_e	ML 4.6
ARSA	4.76	57.1	Pn	10:09:59.447	-1.2					T_				m_e	
WET	4.87	25.9	Pn	10:10:01.218	-0.9					T_				m_e	
GEC2	4.90	33.1	Pn	10:10:01.100	-1.4					T_				m_e	
GEC2	4.90	33.1	Sn	10:10:53.603	-1.4					T_				m_e	
GRA1	5.00	11.9	Pg	10:10:23.748	-0.7					T_				m_e	
TNS	5.47	352.0	Pn	10:10:09.989	-0.3					T_				m_e	
BRG	6.72	23.9	Pn	10:10:26.581	-0.6					T_				m_e	
CLL	6.88	17.9	Pg	10:11:00.735	0.9					T_				m_e	
CLZ	7.05	3.7	Pg	10:11:03.785	0.7					T_				m_e	

Event 91021002 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/21	03:47:49.04	0.32	0.69	51.4470	16.1060	4.4	2.2	022	1.0f		42	22	169	0.62	4.99	m i ki	BGR	91021002

Magnitude	Err	Nsta	Author	OrigID
ML	3.4	0.4	21 BGR	91021002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.62	168.9	Pg	03:48:00.907	0.3					T__				m_e	ML 2.8
KSP	0.62	168.9	Sg	03:48:09.414	0.8					T__				m_e	
DPC	1.11	172.8	Pg	03:48:09.759	-0.1					T__				m_e	ML 3.2
DPC	1.11	172.8	Sg	03:48:24.316	0.2					T__				m_e	
BRG	1.47	247.9	Pn	03:48:15.211	-0.7					T__				m_e	ML 3.2
BRG	1.47	247.9	Pg	03:48:16.733	-0.1					T__				m_e	
BRG	1.47	247.9	Sg	03:48:36.570	0.7					T__				m_e	
RUE	1.76	306.6	Pn	03:48:18.843	-1.1					T__				m_e	ML 3.5
RUE	1.76	306.6	Sg	03:48:45.753	0.7					T__				m_e	
FBE	1.80	254.1	Sg	03:48:46.184	-0.1					T__				m_e	ML 2.4
CLL	1.94	267.1	Pn	03:48:21.686	-0.6					T__				m_e	ML 3.2
CLL	1.94	267.1	Sg	03:48:51.004	0.3					T__				m_e	
OKC	2.07	140.4	Sg	03:48:53.793	-0.9					T__				m_e	ML 3.3
TANN	2.52	247.2	Pn	03:48:30.450	0.3					T__				m_e	ML 3.4
TANN	2.52	247.2	Pg	03:48:36.263	-0.2					T__				m_e	
WERD	2.59	248.8	Pn	03:48:31.485	0.3					T__				m_e	ML 3.4
WERD	2.59	248.8	Pg	03:48:37.651	-0.3					T__				m_e	
WERD	2.59	248.8	Sg	03:49:10.703	-0.7					T__				m_e	
GUNZ	2.61	247.0	Pn	03:48:32.101	0.7					T__				m_e	ML 3.6
GUNZ	2.61	247.0	Pg	03:48:38.072	-0.2					T__				m_e	
GUNZ	2.61	247.0	Sg	03:49:12.118	0.0					T__				m_e	
WERN	2.62	245.2	Pn	03:48:31.974	0.4					T__				m_e	ML 3.6
WERN	2.62	245.2	Pg	03:48:38.361	-0.1					T__				m_e	
WERN	2.62	245.2	Sg	03:49:11.853	-0.5					T__				m_e	
OJC	2.63	116.3	Pn	03:48:30.096	-1.6					T__				m_e	ML 3.5
OJC	2.63	116.3	Pg	03:48:38.622	-0.1					T__				m_e	
PLN	2.67	250.4	Pn	03:48:32.315	0.2					T__				m_e	
PLN	2.67	250.4	Pg	03:48:38.979	-0.3					T__				m_e	
PLN	2.67	250.4	Sg	03:49:13.074	-0.7					T__				m_e	
NEUB	2.72	266.7	Pg	03:48:39.983	-0.2					T__				m_e	ML 4.1
MANZ	2.92	241.6	Pn	03:48:36.184	0.6					T__				m_e	ML 3.5
MANZ	2.92	241.6	Pg	03:48:44.765	0.7					T__				m_e	
ROTZ	2.99	237.3	Pn	03:48:37.092	0.6					T__				m_e	ML 3.4
GEC2	3.02	211.6	Pn	03:48:37.815	0.8					T__				m_e	ML 3.5
WET	3.09	223.1	Pn	03:48:38.269	0.4					T__				m_e	ML 3.2
GRA1	3.56	242.4	Pn	03:48:45.323	1.0					T__				m_e	ML 3.9
GRA1	3.56	242.4	Sg	03:49:42.948	0.7					T__				m_e	
CLZ	3.58	278.6	Pn	03:48:45.651	1.1					T__				m_e	ML 3.5
UBBA	3.88	263.1	Pn	03:48:49.335	0.7					T__				m_e	ML 3.6
UBBA	3.88	263.1	Pg	03:49:00.985	-1.2					T__				m_e	
TNS	4.99	258.8	Pn	03:49:04.353	0.7					T__				m_e	ML 3.8
TNS	4.99	258.8	Sg	03:50:27.757	0.3					T__				m_e	

Event 91021006 Switzerland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/21	16:10:58.80			46.1400	6.7500				10.0							m i uk	SED	91021016
2009/10/21	16:11:00.80	0.51	0.89	46.2120	6.6950	5.6	4.4	100	10.0f		36	20	277	1.32	5.69	m i ke	BGR	91021006

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	3.2		SED	91021016
ML	3.4	0.3	12 BGR	91021006

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	1.32	31.0	Pn	16:11:24.330	-0.2					T__				m_e ML	3.3
SULZ	1.64	35.8	Pg	16:11:31.115	-0.5					T__				m_e ML	3.3
SULZ	1.64	35.8	Sg	16:11:53.608	0.8					T__				m_e	
WILA	1.93	50.7	Pg	16:11:36.369	-0.9					T__				m_e ML	3.7
WILA	1.93	50.7	Sg	16:12:02.280	-0.0					T__				m_e	
SLE	1.98	37.6	Pg	16:11:37.254	-0.9					T__				m_e ML	3.4
SLE	1.98	37.6	Sg	16:12:03.976	0.2					T__				m_e	
PLONS	2.03	64.6	Pn	16:11:34.349	0.2					T__				m_e ML	3.0
PLONS	2.03	64.6	Pg	16:11:37.730	-1.3					T__				m_e	
PLONS	2.03	64.6	Sg	16:12:05.254	0.0					T__				m_e	
BFO	2.39	27.0	Pn	16:11:37.495	-1.6					T__				m_e ML	3.1
BFO	2.39	27.0	Pg	16:11:45.526	-0.4					T__				m_e	
BFO	2.39	27.0	Sg	16:12:16.428	-0.4					T__				m_e	
DAVA	2.43	62.6	Pg	16:11:45.611	-1.1					T__				m_e ML	3.3
DAVA	2.43	62.6	Sg	16:12:18.331	0.2					T__				m_e	
STU	3.07	32.5	Sg	16:12:38.649	0.4					T__				m_e ML	3.6
WLF	3.47	354.2	Sg	16:12:51.638	0.5					T__				m_e ML	3.4
WTTA	3.55	71.0	Pn	16:11:56.094	1.3					T__				m_e ML	3.5
WTTA	3.55	71.0	Sg	16:12:55.116	1.7					T__				m_e	
FUR	3.67	56.3	Sg	16:12:57.178	-0.3					T__				m_e ML	3.9
TNS	4.18	15.6	Pn	16:12:02.935	-0.4					T__				m_e	
TNS	4.18	15.6	Sg	16:13:14.688	1.2					T__				m_e	
RJOB	4.43	67.7	Pn	16:12:07.562	0.8					T__				m_e	
RJOB	4.43	67.7	Pg	16:12:24.160	-0.2					T__				m_e	
GRA1	4.61	39.4	Sg	16:13:27.352	-0.1					T__				m_e ML	3.7
KBA	4.65	76.8	Pn	16:12:11.431	1.8					T__				m_e	
WET	5.09	52.6	Pn	16:12:14.601	-1.1					T__				m_e	
WET	5.09	52.6	Sn	16:13:11.210	1.2					T__				m_e	
WET	5.09	52.6	Sg	16:13:41.264	-1.2					T__				m_e	
ROTZ	5.12	44.0	Sn	16:13:12.031	1.3					T__				m_e	
ROTZ	5.12	44.0	Sg	16:13:42.522	-1.0					T__				m_e	
MOA	5.41	69.6	Pn	16:12:20.161	0.1					T__				m_e	
GEC2	5.41	58.3	Pn	16:12:19.584	-0.5					T__				m_e	
GEC2	5.41	58.3	Pg	16:12:43.046	0.3					T__				m_e	
TANN	5.69	40.3	Pg	16:12:47.381	-0.6					T__				m_e	
TANN	5.69	40.3	Sg	16:14:01.352	-0.1					T__				m_e	

Event 91023002 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
2009/10/23	05:29:16.90	1.13	0.51	51.6400	7.5560				1.0f			7	302	0.48	1.44	m i ki	BNS	91023022
2009/10/23	05:29:15.64	0.28	0.73	51.6280	7.8040	3.3	3.3	143	1.0f		16	8	083	0.38	1.60	m i ki	BGR	91023012
2009/10/23	05:29:14.50			51.6340	7.7790				1.0f				224	0.11	0.37	m i ki	BUG	91023002

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.7		BNS	91023022
ML	2.1	0.1	5 BGR	91023012
ML	1.9		BUG	91023002

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.11	14.4	Pg	05:29:17.400	0.9					T__				m__	ML	2.1
BAHL	0.11	14.4	Sg	05:29:19.400	1.5					T__				m__		
BUG	0.37	238.8	Pg	05:29:22.400	0.9					TA__				mce	ML	1.9
BUG	0.37	238.8	Sg	05:29:28.200	1.9					TA__				m__		
LAUG	0.59	241.8	Pg	05:29:26.090	0.4					___				m_e		
IBBN	0.67	359.0	Sg	05:29:36.268	0.4					___				m_e	ML	2.2
WTSB	0.69	299.1	Pg	05:29:29.193	1.7					___				m_e		
WTSB	0.69	299.1	Sg	05:29:39.177	2.7					___				m_e		
HOBG	0.71	203.3	Pg	05:29:30.520	2.7					___				m_e		
AHRW	1.18	202.3	Pg	05:29:38.575	1.9					___				m_e	ML	2.1
AHRW	1.18	202.3	Sg	05:29:54.457	2.5					___				m_e		
STB	1.20	209.9	Pg	05:29:38.250	1.2					___				m_e		
STB	1.20	209.9	Sg	05:29:53.380	0.9					___		33.6	0.47	m_e		
KOE	1.21	181.4	Pg	05:29:38.600	1.3					___				m_e		
KLL	1.35	223.6	Pg	05:29:39.980	0.0					___				m_e		
DREG	1.37	225.6	Pg	05:29:40.670	0.3					___				m_e		
HGN	1.45	233.8	Sg	05:30:01.030	0.5					___				m_e		
BGG	1.45	191.2	Pg	05:29:42.370	0.4					___				m_e		
TNS	1.47	163.1	Pg	05:29:43.479	1.2					___				m_e	ML	2.1
TNS	1.47	163.1	Sg	05:30:00.973	-0.3					___				m_e		
MEM	1.51	228.0	Pn	05:29:43.153	1.2					___				m_e		
MEM	1.51	228.0	Pg	05:29:44.279	1.3					___				m_e		
MEM	1.51	228.0	Sg	05:30:03.399	0.8					___				m_e		
CLZ	1.62	81.6	Pn	05:29:44.107	0.7					___				m_e	ML	2.2
CLZ	1.62	81.6	Pg	05:29:45.805	0.8					___				m_e		
CLZ	1.62	81.6	Sg	05:30:07.677	1.7					___				m_e		

Event 91026009 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
2009/10/26	20:49:03.20	0.53	0.21	51.6450	7.8610				1.0f			7	301	0.64	1.48	m i ki	BNS	91026029
2009/10/26	20:49:03.88	0.28	0.59	51.6080	7.7750	3.3	2.2	124	1.0f		17	8	082	0.36	1.63	m i ki	BGR	91026019
2009/10/26	20:49:01.50			51.6540	7.8250				1.0f				239	0.08	0.41	m i ki	BUG	91026009

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	1.8		BNS	91026029
ML	2.1	0.1	5 BGR	91026019
ML	1.9		BUG	91026009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BAHL	0.08	358.6	Pg	20:49:05.100	2.0					T__				m__	ML	2.1
BAHL	0.08	358.6	Sg	20:49:07.200	3.1					T__				m__		
BUG	0.41	238.5	Pg	20:49:10.100	0.9					TA_				mce	ML	1.9
BUG	0.41	238.5	Sg	20:49:16.400	2.0					TA_				m__		
LAUG	0.63	241.4	Pg	20:49:15.410	2.1					---				m_e		
IBBN	0.65	356.5	Pg	20:49:17.057	3.2					---				m_e	ML	2.2
IBBN	0.65	356.5	Sg	20:49:26.677	4.4					---				m_e		
WTSB	0.71	296.6	Pg	20:49:17.243	2.4					---				m_e		
WTSB	0.71	296.6	Sg	20:49:26.313	2.3					---				m_e		
HOBG	0.74	204.8	Pg	20:49:16.900	1.5					---				m_e		
HOBG	0.74	204.8	Sg	20:49:27.800	2.9					---				m_e		
AHRW	1.21	203.2	Pg	20:49:25.884	1.6					---				m_e	ML	2.1
AHRW	1.21	203.2	Sg	20:49:42.138	2.3					---				m_e		
STB	1.23	210.6	Pg	20:49:25.850	1.2					---				m_e		
KOE	1.23	182.8	Pg	20:49:25.850	1.2					---				m_e		
KLL	1.38	223.9	Pg	20:49:28.240	0.7					---				m_e		
DREG	1.41	225.8	Pg	20:49:29.040	1.0					---				m_e		
BGG	1.48	192.2	Pg	20:49:29.460	0.1					---				m_e		
HGN	1.48	233.9	Pn	20:49:29.425	0.9					---				m_e		
HGN	1.48	233.9	Pg	20:49:30.108	0.7					---				m_e		
HGN	1.48	233.9	Sg	20:49:48.675	0.1					---				m_e		
TNS	1.48	164.4	Pn	20:49:30.583	2.0					---				m_e	ML	2.0
TNS	1.48	164.4	Sg	20:49:49.643	1.0					---				m_e		
MEM	1.55	228.2	Pn	20:49:30.796	1.4					---				m_e		
MEM	1.55	228.2	Sg	20:49:51.336	0.7					---				m_e		
CLZ	1.59	82.2	Pn	20:49:33.346	3.4					---				m_e	ML	2.3
CLZ	1.59	82.2	Sg	20:49:55.307	3.3					---				m_e		

Event 91028001 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/28	01:00:34.86	0.87	0.37	51.2796	6.7784	24.5	7.3	070	10.0	0.0	7	2	060			m i uk	ZAMG	91028051
2009/10/28	01:00:30.90	0.08	0.62	51.4706	6.5870	1.5	1.3	138	1.0f		85	31	078			m i sr	LDG	91028041
2009/10/28	01:00:30.30	0.60	0.21	51.5060	6.5660				1.0f			10	269	0.28	1.39	m i ki	BNS	91028031
2009/10/28	01:00:29.60	0.35	0.11	51.5090	6.5850				1.0f			11	246			m i ki	GDNRW	91028021
2009/10/28	01:00:31.10	0.22	1.01	51.4740	6.6340	3.3	2.2	110	1.0f		22	11	075	0.40	2.35	m i ki	BGR	91028011
2009/10/28	01:00:29.30			51.5210	6.5690				1.0f				293	0.01	0.44	m i ki	BUG	91028001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
ML	2.6	0.1	3 ZAMG	91028051
MD	3.5	0.4	2 LDG	91028041
ML	3.4	0.3	25 LDG	91028041
ML	2.6		BNS	91028031
ML	2.7		GDNRW	91028021
ML	2.8	0.2	6 BGR	91028011
ML	2.8		BUG	91028001

Effects	Loctyp	Location	Intensity	Scale	Author
_F	Summar		2.0	EMS	BNS

(Felt in Kamp-Lintfort)

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRHE	0.01	166.6	Pg	01:00:30.500	1.0					T__				m__	ML	2.4
BRHE	0.01	166.6	Sg	01:00:31.500	1.9					T__				m__		
LAUG	0.29	125.9	Pg	01:00:35.560	0.8					---				mdi		
OPLO	0.44	281.6	Pg	01:00:40.231	2.6					---				m_e		
OPLO	0.44	281.6	Sg	01:00:47.859	4.5					---				m_e		
BUG	0.44	100.2	Pg	01:00:38.700	1.0					TA_				mde	ML	2.8
BUG	0.44	100.2	Sg	01:00:45.400	2.0					TA_				m__		
RODG	0.45	213.0	Pg	01:00:38.880	1.1					---				m_e		
WTSB	0.47	17.6	Pg	01:00:39.967	1.9					---				m_e		
WTSB	0.47	17.6	Sg	01:00:46.340	2.2					---				m_e		
RWB	0.49	211.9	Pg	01:00:39.557	1.0					---				m_e		
RWB	0.49	211.9	Sg	01:00:46.381	1.4					---		564.2	0.19	m_e		
JCK	0.49	190.1	Pg	01:00:39.301	0.7					---				m_e		
JCK	0.49	190.1	Sg	01:00:46.163	1.2					---		839.1	0.21	m_e		
PLH	0.54	163.0	Pg	01:00:40.242	0.8					---				m_e		
PLH	0.54	163.0	Sg	01:00:47.605	1.1					---		1940.0	0.24	m_e		
ENTS	0.60	117.7	Pg	01:00:41.358	0.8					---				m_e		
ENTS	0.60	117.7	Sg	01:00:49.231	1.0					---				m_e		
BNS	0.67	145.5	Pg	01:00:43.210	1.2					---				m_e		
BNS	0.67	145.5	Sg	01:00:52.350	1.6					---				m_e		
HOBG	0.72	138.0	Pg	01:00:43.960	1.1					---				m_e		
HOBG	0.72	138.0	Sg	01:00:53.740	1.6					---				m_e		
GSH	0.79	188.7	Pg	01:00:44.946	0.7					---				m_e		
GSH	0.79	188.7	Sg	01:00:55.805	1.3					---		109.0	0.14	m_e		
WBS	0.84	147.7	Pg	01:00:45.935	0.7					---				m_e		
WBS	0.84	147.7	Sg	01:00:57.134	1.0					---		241.3	0.24	m_e		
HGN	0.86	208.1	Pg	01:00:46.140	0.7					---				m_e		
HGN	0.86	208.1	Sg	01:00:58.533	2.0					---				m_e		
DREG	0.88	193.9	Pg	01:00:46.600	0.6					---				m_e		
KLL	0.89	190.6	Pg	01:00:46.620	0.6					---				m_e		
SORT	0.89	100.5	Pg	01:00:46.726	0.6					---				m_e		
SORT	0.89	100.5	Sg	01:00:58.737	1.1					---				m_e		
STB	0.94	169.5	Pg	01:00:48.190	1.1					---				m_e		
STB	0.94	169.5	Sg	01:01:00.850	1.6					---		264.6	0.38	m_e		
TDN	0.98	165.8	Sg	01:01:01.294	1.0					---		92.8	0.21	m_e		
MEM	0.98	201.4	Pg	01:00:48.253	0.5					---				m_e		
MEM	0.98	201.4	Sg	01:01:01.524	1.2					---				m_e		
AHRW	1.03	161.8	Pg	01:00:50.110	1.4					---				m_e	ML	2.6
AHRW	1.03	161.8	Sg	01:01:04.606	2.6					---				m_e		
OLFT	1.03	185.3	Pg	01:00:49.249	0.5					---				m_e		
OLFT	1.03	185.3	Sg	01:01:02.978	0.9					---				m_e		
IBBN	1.07	42.6	Pg	01:00:51.366	1.8					---				m_e	ML	2.8
IBBN	1.07	42.6	Sg	01:01:06.285	2.8					---				m_e		
BHE	1.23	161.5	Pg	01:00:52.973	0.5					---				m_e		
HILG	1.23	176.7	Pg	01:00:53.220	0.7					---				m_e		
WIT	1.29	2.7	Pg	01:00:56.960	3.3					---				m_e		
WIT	1.29	2.7	Sg	01:01:14.826	4.4					---				m_e		
KOE	1.32	145.8	Pg	01:00:54.540	0.4					---				m_e		
LOH	1.34	180.9	Pg	01:00:54.723	0.2					---				m_e		
LOH	1.34	180.9	Sg	01:01:12.362	0.5					---		134.4	0.24	m_e		
BGG	1.40	159.5	Pg	01:00:55.310	-0.4					---				m_e		
TNS	1.76	136.9	Pg	01:01:01.810	-0.6					---				m_e	ML	2.9

TNS	1.76	136.9	Sg	01:01:25.469	0.3	---	m_e	
WLF	1.88	188.3	Pg	01:01:04.741	0.1	---	m_e ML	3.1
WLF	1.88	188.3	Sg	01:01:28.542	-0.3	---	m_e	
CLZ	2.38	80.8	Pn	01:01:08.772	0.3	---	m_e ML	2.9
CLZ	2.38	80.8	Pg	01:01:13.813	-0.3	---	m_e	
CLZ	2.38	80.8	Sg	01:01:45.917	1.0	---	m_e	

Event 91028008 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/28	17:10:02.03	0.34	0.74	51.4450	16.1780	4.4	2.2	017	1.0f		43	16	198	0.61	3.62	m i ki	BGR	91028008

Magnitude	Err	Nsta	Author	OrigID
ML	4.0	0.4	15 BGR	91028008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.61	173.1	Pg	17:10:14.081	0.6					T_				m_e ML	3.5
KSP	0.61	173.1	Sg	17:10:21.691	0.4					T_				m_e	
DPC	1.10	175.2	Pg	17:10:22.910	0.2					T_				m_e ML	3.4
DPC	1.10	175.2	Sg	17:10:37.994	1.1					T_				m_e	
BRG	1.51	248.7	Pn	17:10:28.828	-0.7					T_				m_e ML	3.8
BRG	1.51	248.7	Pg	17:10:29.878	-0.7					T_				m_e	
BRG	1.51	248.7	Sg	17:10:51.086	1.0					T_				m_e	
FBE	1.85	254.6	Pn	17:10:33.732	-0.3					T_				m_e ML	3.1
FBE	1.85	254.6	Pg	17:10:36.189	-0.6					T_				m_e	
FBE	1.85	254.6	Sg	17:11:00.528	-0.1					T_				m_e	
MORC	1.88	152.0	Pn	17:10:34.154	-0.3					T_				m_e ML	3.5
MORC	1.88	152.0	Pg	17:10:37.486	0.0					T_				m_e	
MORC	1.88	152.0	Sg	17:11:01.884	0.1					T_				m_e	
CLL	1.99	267.3	Pn	17:10:35.163	-0.7					T_				m_e ML	4.0
CLL	1.99	267.3	Pg	17:10:38.203	-1.3					T_				m_e	
CLL	1.99	267.3	Sg	17:11:04.612	-0.5					T_				m_e	
OKC	2.04	141.4	Pn	17:10:36.145	-0.4					T_				m_e ML	4.0
OKC	2.04	141.4	Pg	17:10:40.629	0.2					T_				m_e	
OKC	2.04	141.4	Sg	17:11:06.125	-0.6					T_				m_e	
TANN	2.56	247.7	Pn	17:10:43.966	0.3					T_				m_e ML	4.2
TANN	2.56	247.7	Pg	17:10:51.127	0.9					T_				m_e	
TANN	2.56	247.7	Sg	17:11:22.798	-0.5					T_				m_e	
OJC	2.59	116.8	Pn	17:10:43.013	-1.1					T_				m_e	
OJC	2.59	116.8	Pg	17:10:50.496	-0.4					T_				m_e	
WERD	2.63	249.3	Pn	17:10:44.950	0.2					T_				m_e ML	4.1
WERD	2.63	249.3	Pg	17:10:51.670	-0.0					T_				m_e	
WERD	2.63	249.3	Sg	17:11:25.140	-0.6					T_				m_e	
MANZ	2.96	242.1	Pn	17:10:49.915	0.8					T_				m_e ML	4.3
MANZ	2.96	242.1	Pg	17:10:58.630	0.8					T_				m_e	
MANZ	2.96	242.1	Sg	17:11:37.009	0.9					T_				m_e	
ROTZ	3.03	237.9	Pn	17:10:50.535	0.5					T_				m_e ML	4.0
ROTZ	3.03	237.9	Pg	17:10:59.052	-0.0					T_				m_e	
ROTZ	3.03	237.9	Sg	17:11:37.844	-0.4					T_				m_e	
GEC2	3.05	212.4	Pn	17:10:50.747	0.5					T_				m_e ML	4.2
GEC2	3.05	212.4	Pg	17:11:00.012	0.6					T_				m_e	
GEC2	3.05	212.4	Sg	17:11:37.041	-1.7					T_				m_e	

WET	3.12	223.8	Pn	17:10:51.793	0.5	T__	m_e	ML	4.2
WET	3.12	223.8	Sg	17:11:40.616	-0.5	T__	m_e		
GRA1	3.60	242.8	Pn	17:10:58.787	1.0	T__	m_e	ML	4.8
GRA1	3.60	242.8	Pg	17:11:11.406	1.5	T__	m_e		
GRA1	3.60	242.8	Sg	17:11:57.219	0.8	T__	m_e		
CLZ	3.62	278.6	Pn	17:10:58.326	0.2	T__	m_e	ML	4.3
CLZ	3.62	278.6	Sg	17:11:58.484	1.3	T__	m_e		

Event 91029009 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/29	16:34:37.52	0.35	0.65	51.4770	16.0970	4.4	2.2	016	1.0f		40	16	199	0.65	3.57	m i ki	BGR	91029009

Magnitude	Err	Nsta	Author	OrigID
ML	3.4	0.3	16 BGR	91029009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.65	168.9	Pg	16:34:50.256	0.6					T__				m_e	ML 2.7
KSP	0.65	168.9	Sg	16:34:59.733	1.7					T__				m_e	
DPC	1.14	172.7	Pg	16:34:59.048	0.1					T__				m_e	ML 3.6
DPC	1.14	172.7	Sg	16:35:14.799	1.2					T__				m_e	
BRG	1.48	246.8	Pg	16:35:04.907	-0.5					T__				m_e	ML 3.5
BRG	1.48	246.8	Sg	16:35:25.288	0.8					T__				m_e	
FBE	1.81	253.2	Pn	16:35:08.950	-0.0					T__				m_e	ML 2.7
FBE	1.81	253.2	Pg	16:35:11.073	-0.5					T__				m_e	
FBE	1.81	253.2	Sg	16:35:34.892	-0.0					T__				m_e	
MORC	1.93	151.1	Pn	16:35:10.166	-0.5					T__				m_e	ML 3.0
MORC	1.93	151.1	Sg	16:35:38.314	-0.6					T__				m_e	
CLL	1.94	266.2	Pn	16:35:09.640	-1.1					T__				m_e	ML 3.4
CLL	1.94	266.2	Pg	16:35:13.988	-0.1					T__				m_e	
CLL	1.94	266.2	Sg	16:35:39.221	0.1					T__				m_e	
OKC	2.09	140.8	Pn	16:35:12.352	-0.5					T__				m_e	ML 3.5
OKC	2.09	140.8	Pg	16:35:16.859	-0.1					T__				m_e	
OKC	2.09	140.8	Sg	16:35:42.672	-1.3					T__				m_e	
TANN	2.52	246.5	Pn	16:35:18.737	0.0					T__				m_e	ML 3.6
TANN	2.52	246.5	Sg	16:35:57.975	0.3					T__				m_e	
WERD	2.60	248.2	Pn	16:35:19.573	-0.1					T__				m_e	ML 3.5
WERD	2.60	248.2	Pg	16:35:26.819	0.3					T__				m_e	
WERD	2.60	248.2	Sg	16:35:59.156	-0.9					T__				m_e	
OJC	2.65	116.8	Pn	16:35:19.704	-0.7					T__				m_e	ML 3.6
OJC	2.65	116.8	Sg	16:36:02.369	0.6					T__				m_e	
MANZ	2.93	241.0	Pn	16:35:24.598	0.4					T__				m_e	ML 3.7
MANZ	2.93	241.0	Pg	16:35:33.301	0.5					T__				m_e	
MANZ	2.93	241.0	Sg	16:36:10.013	-0.6					T__				m_e	
ROTZ	3.00	236.8	Pn	16:35:25.569	0.4					T__				m_e	ML 3.4
ROTZ	3.00	236.8	Pg	16:35:34.782	0.7					T__				m_e	
ROTZ	3.00	236.8	Sg	16:36:12.489	-0.4					T__				m_e	
GEC2	3.05	211.2	Pn	16:35:26.344	0.6					T__				m_e	ML 3.5
GEC2	3.05	211.2	Pg	16:35:34.480	-0.4					T__				m_e	
GEC2	3.05	211.2	Sg	16:36:13.793	-0.5					T__				m_e	
WET	3.11	222.6	Pn	16:35:27.029	0.4					T__				m_e	ML 3.5
WET	3.11	222.6	Sg	16:36:15.906	-0.4					T__				m_e	

CLZ	3.57	278.1	Pn	16:35:33.159	0.3	T__	m_e	ML	3.5
CLZ	3.57	278.1	Sg	16:36:31.978	1.1	T__	m_e		
GRA1	3.57	241.9	Pn	16:35:33.743	0.8	T__	m_e	ML	4.1
GRA1	3.57	241.9	Pg	16:35:45.345	0.5	T__	m_e		
GRA1	3.57	241.9	Sg	16:36:31.798	0.8	T__	m_e		

Event 91030007 Moers, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/30	22:31:33.50	0.11	0.24	51.5309	6.5957	1.8	1.4	028	1.0f		33	15	244			m i sr	LDG	91030037
2009/10/30	22:31:35.10	1.46	0.51	51.4500	6.6300				1.0	26.3		8	279	0.22	1.32	m i ki	BNS	91030027
2009/10/30	22:31:34.37	0.34	0.98	51.4830	6.5920	5.6	3.3	120	1.0f		18	9	165	0.42	2.37	m i ki	BGR	91030017
2009/10/30	22:31:32.80			51.4900	6.5570				1.0f				282	0.03	0.45	m i ki	BUG	91030007

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.1	0.4	2 LDG	91030037
ML	2.6	0.3	14 LDG	91030037
ML	1.7		BNS	91030027
ML	2.0	0.1	4 BGR	91030017
ML	2.0		BUG	91030007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRHE	0.03	19.0	Pg	22:31:34.000	0.7					T__				m__	ML	1.7
BRHE	0.03	19.0	Sg	22:31:34.900	1.2					T__				m__		
LAUG	0.28	119.8	Pg	22:31:38.960	0.9					___				m_e		
BUG	0.45	96.1	Pg	22:31:42.200	1.0					TA__				mde	ML	2.0
BUG	0.45	96.1	Sg	22:31:49.000	2.0					TA__				m__		
WTSB	0.50	17.4	Pg	22:31:43.894	1.7					___				m_e		
WTSB	0.50	17.4	Sg	22:31:50.385	1.7					___				m_e		
HOBG	0.70	135.9	Pg	22:31:47.630	1.6					___				m_e		
HGN	0.83	208.6	Pg	22:31:49.877	1.5					___				m_e		
HGN	0.83	208.6	Sg	22:32:01.294	2.3					___				m_e		
DREG	0.85	194.0	Pg	22:31:50.150	1.3					___				m_e		
KLL	0.86	190.5	Pg	22:31:51.110	2.2					___				m_e		
STB	0.91	168.7	Pg	22:31:52.150	2.1					___				m_e		
STB	0.91	168.7	Sg	22:32:03.450	1.6					___		32.3	0.32	m_e		
MEM	0.95	201.7	Pg	22:31:51.849	1.2					___				m_e		
MEM	0.95	201.7	Sg	22:32:04.545	1.7					___				m_e		
AHRW	1.00	160.8	Pg	22:31:53.648	1.9					___				m_e	ML	1.8
AHRW	1.00	160.8	Sg	22:32:08.365	3.7					___				m_e		
IBBN	1.10	41.8	Sg	22:32:10.338	2.5					___				m_e	ML	2.1
HILG	1.20	176.3	Pg	22:31:56.790	1.4					___				m_e		
KOE	1.30	144.7	Pg	22:31:58.180	0.9					___				m_e		
BGG	1.38	158.7	Pg	22:31:58.910	0.2					___				m_e		
TNS	1.74	136.0	Pn	22:32:04.978	1.6					___				m_e		
TNS	1.74	136.0	Pg	22:32:06.537	0.9					___				m_e		
TNS	1.74	136.0	Sg	22:32:27.845	-0.3					___				m_e		
WLF	1.84	188.2	Pg	22:32:08.573	1.0					___				m_e	ML	2.1
WLF	1.84	188.2	Sg	22:32:31.774	0.4					___				m_e		
CLZ	2.39	80.1	Pg	22:32:17.791	-0.1					___				m_e		
CLZ	2.39	80.1	Sg	22:32:48.690	-0.1					___				m_e		

Event 91031001 Recklinghausen, Ruhr Coal Mining District

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/31	02:30:33.10	0.18	0.29	51.7826	7.0912	3.0	1.9	050	1.0f		17	7	283			m i sr	LDG	91031041
2009/10/31	02:30:34.00	0.68	0.31	51.7430	7.1110				1.0f			7	316	0.41	1.48	m i ki	BNS	91031031
2009/10/31	02:30:32.90	0.42	0.11	51.7520	7.0610				1.0f			4	308			m i ki	GDNRW	91031021
2009/10/31	02:30:34.72	0.29	0.82	51.7240	7.1330	3.3	3.3	013	1.0f		23	16	101	0.30	3.76	m i ki	BGR	91031011
2009/10/31	02:30:32.80			51.7660	7.1710				1.0f							m i ki	BUG	91031001

(#PRIME)

Magnitude	Err	Nsta	Author	OrigID
MD	3.3	0.4	2 LDG	91031041
ML	2.8	0.2	7 LDG	91031041
ML	2.2		BNS	91031031
ML	2.3		GDNRW	91031021
ML	2.5	0.3	10 BGR	91031011
ML	2.2		BUG	91031001

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
WTSB	0.30	311.2	Pg	02:30:40.213	1.7										
WTSB	0.30	311.2	Sg	02:30:45.154	2.7										
BUG	0.33	169.3	Pg	02:30:40.000	1.0					TA_				m_e	ML 2.2
BUG	0.33	169.3	Sg	02:30:45.300	2.0					TA_				m_e	
LAUG	0.44	198.9	Pg	02:30:41.450	0.4									m_e	
LAUG	0.44	198.9	Sg	02:30:47.520	0.8							136.0	0.77	m_e	
ENTS	0.55	164.0	Pg	02:30:43.982	0.9									m_e	
ENTS	0.55	164.0	Sg	02:30:51.665	1.5									m_e	
IBBN	0.65	33.6	Pg	02:30:46.957	1.9									m_e	ML 2.3
IBBN	0.65	33.6	Sg	02:30:58.597	5.1									m_e	
HOBG	0.79	172.5	Pg	02:30:48.530	0.9									m_e	
HOBG	0.79	172.5	Sg	02:30:59.430	1.6									m_e	
PLH	0.79	196.2	Pg	02:30:47.589	-0.2									m_e	
PLH	0.79	196.2	Sg	02:30:58.327	0.3							151.5	0.23	m_e	
JCK	0.86	212.6	Sg	02:30:59.886	-0.4							259.4	0.26	m_e	
WBS	0.96	175.8	Pg	02:30:51.602	0.7									m_e	
WBS	0.96	175.8	Sg	02:31:04.327	1.0							45.0	0.29	m_e	
STB	1.19	190.2	Pg	02:30:55.440	0.2									m_e	
STB	1.19	190.2	Sg	02:31:11.680	1.1							57.0	0.52	m_e	
AHRW	1.23	182.8	Pg	02:30:55.892	-0.0									m_e	ML 2.6
AHRW	1.23	182.8	Sg	02:31:13.940	2.2									m_e	
KLL	1.24	206.0	Pg	02:30:56.330	0.1									m_e	
DREG	1.25	208.4	Pg	02:30:56.270	-0.1									m_e	
HGN	1.27	218.2	Pg	02:30:56.695	0.0									m_e	
HGN	1.27	218.2	Sg	02:31:13.517	0.5									m_e	
KOE	1.39	165.1	Sg	02:31:16.950	0.1									m_e	
HILG	1.51	192.1	Sg	02:31:20.130	-0.5									m_e	
TNS	1.74	152.0	Pn	02:31:05.618	2.3									m_e	ML 2.6
TNS	1.74	152.0	Sg	02:31:28.467	0.4									m_e	
CLZ	1.98	86.6	Sg	02:31:38.527	2.8									m_e	ML 2.4
UBBA	2.01	117.0	Sg	02:31:37.280	0.7									m_e	ML 2.3
NEUB	2.92	99.2	Sg	02:32:08.548	3.0									m_e	ML 3.0

BFO	3.52	167.3	Sn	02:32:08.372	1.6	---	m_e	ML	2.7
BFO	3.52	167.3	Sg	02:32:25.387	0.9	---	m_e		
GUNZ	3.53	111.4	Sg	02:32:28.462	3.4	---	m_e	ML	2.9
TANN	3.59	110.1	Sg	02:32:28.711	2.0	---	m_e		
MANZ	3.59	117.8	Sg	02:32:28.585	1.8	---	m_e		
WERN	3.59	112.3	Sg	02:32:28.804	1.9	---	m_e		
CLL	3.66	94.9	Sg	02:32:31.732	2.8	---	m_e	ML	2.5
ROTZ	3.76	120.1	Sg	02:32:34.971	2.7	---	m_e		

Event 91031002 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	OrigID
2009/10/31	04:50:17.59	0.36	0.70	51.4420	16.1290	4.4	2.2	014	1.0f		35	16	197	0.61	3.59	m i ki	BGR	91031012

Magnitude	Err	Nsta	Author	OrigID
ML	3.1	0.2	14 BGR	91031012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KSP	0.61	170.2	Pg	04:50:29.586	0.5					T_				m_e	ML 2.6
DPC	1.10	173.6	Pg	04:50:38.366	0.1					T_				m_e	ML 3.0
DPC	1.10	173.6	Sg	04:50:53.032	0.5					T_				m_e	
BRG	1.48	248.3	Pn	04:50:43.839	-0.8					T_				m_e	ML 3.1
BRG	1.48	248.3	Pg	04:50:45.299	-0.3					T_				m_e	
BRG	1.48	248.3	Sg	04:51:05.156	0.4					T_				m_e	
FBE	1.82	254.4	Pn	04:50:48.685	-0.5					T_				m_e	ML 2.8
FBE	1.82	254.4	Pg	04:50:51.269	-0.5					T_				m_e	
FBE	1.82	254.4	Sg	04:51:15.202	-0.1					T_				m_e	
MORC	1.89	151.1	Pn	04:50:49.882	-0.3					T_				m_e	ML 2.8
MORC	1.89	151.1	Pg	04:50:52.372	-0.9					T_				m_e	
MORC	1.89	151.1	Sg	04:51:17.519	-0.2					T_				m_e	
CLL	1.96	267.3	Pn	04:50:50.033	-1.0					T_				m_e	ML 3.1
CLL	1.96	267.3	Sg	04:51:19.524	-0.2					T_				m_e	
OKC	2.05	140.6	Pn	04:50:51.812	-0.6					T_				m_e	ML 3.1
OKC	2.05	140.6	Pg	04:50:55.744	-0.5					T_				m_e	
OKC	2.05	140.6	Sg	04:51:22.591	-0.2					T_				m_e	
TANN	2.53	247.5	Pn	04:50:59.006	0.2					T_				m_e	ML 3.2
TANN	2.53	247.5	Sg	04:51:38.730	0.8					T_				m_e	
WERD	2.61	249.1	Pn	04:51:00.091	0.2					T_				m_e	ML 3.2
WERD	2.61	249.1	Sg	04:51:39.015	-1.3					T_				m_e	
OJC	2.62	116.4	Pn	04:50:58.904	-1.2					T_				m_e	ML 3.2
OJC	2.62	116.4	Sg	04:51:42.069	1.2					T_				m_e	
MANZ	2.93	241.8	Pn	04:51:04.881	0.6					T_				m_e	
ROTZ	3.00	237.6	Pn	04:51:05.966	0.8					T_				m_e	ML 3.2
ROTZ	3.00	237.6	Sg	04:51:52.286	-0.6					T_				m_e	
GEC2	3.03	211.9	Pn	04:51:06.494	0.9					T_				m_e	ML 3.2
GEC2	3.03	211.9	Sg	04:51:53.013	-0.7					T_				m_e	
WET	3.10	223.4	Pn	04:51:06.895	0.4					T_				m_e	ML 3.1
WET	3.10	223.4	Sn	04:51:42.565	0.8					T_				m_e	
WET	3.10	223.4	Sg	04:51:56.611	0.6					T_				m_e	
GRA1	3.57	242.6	Pn	04:51:13.648	0.7					T_				m_e	ML 3.7
GRA1	3.57	242.6	Sg	04:52:11.872	0.8					T_				m_e	
CLZ	3.59	278.6	Pn	04:51:14.069	0.8					T_				m_e	

CLZ 3.59 278.6 Sg 04:52:12.712 1.0

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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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