

MONTHLY BULLETIN of REGIONAL and TELESEISMIC EVENTS RECORDED with GRF- and GRNS-STATIONS in GERMANY

(produced by SZO/BGR - HANNOVER)

November 2018

UPDATED 11.June 2020

Please note that local events recorded in Germany are part of the "LOCAL BULLETIN".

Event 81101001 North Atlantic Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/01	04:28:03.96			40.6700	-12.2730				33.0			27		15.77	21.32	m i ke	BGR
OrigID 81101007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	81101007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	16.54		P	04:31:55.211	-0.3	250.2		10.97		TAS		22.2	0.80	m_e mb	4.3
BRG	20.84		P	04:32:42.292		250.2		10.97		TAS		64.4	1.01	m_e mb	4.9
BSEG	20.15		P	04:32:32.432	0.7	250.2		10.97		TAS		91.5	0.95	m_e mb	5.0
BUG	17.26		P	04:32:01.388	-0.2	250.2		10.97		TAS		56.2	1.03	m_e mb	4.6
CLL	20.43		P	04:32:36.876		250.2		10.97		TAS		25.3	0.84	m_e mb	4.5
CLZ	19.15		P	04:32:23.141	-0.5	250.2		10.97		TAS		45.5	1.30	m_e mb	4.5
FUR	18.37		P	04:32:16.051	1.0	250.2		10.97		TAS		43.8	0.92	m_e mb	4.6
GEC2	20.10		P	04:32:34.164	-1.1	250.2		10.97		TAS		75.7	1.00	m_e mb	4.9
GOR1	20.19		P	04:32:33.861	-0.4	250.2		10.97		TAS		162.5	1.55	m_e mb	5.0
GRA1	18.80		P	04:32:20.573	1.9	250.2		10.97		TAS		107.1	0.73	m_e mb	5.2
IBBN	17.98		P	04:32:09.115	0.8	250.2		10.97		TAS		39.4	0.78	m_e mb	4.6
KAST	17.77		P	04:32:08.501	0.6	250.2		10.97		TAS		32.4	1.10	m_e mb	4.4
MANZ	19.43		P	04:32:26.324	1.8	250.2		10.97		TAS		13.9	0.95	m_e mb	4.2
MOX	19.37		P	04:32:25.989	-0.2	250.2		10.97		TAS		52.3	0.90	m_e mb	4.8
NEUB	19.67		P	04:32:29.359	-0.6	250.2		10.97		TAS		72.6	0.92	m_e mb	4.9
NRDL	19.31		P	04:32:25.040	-1.0	250.2		10.97		TAS		83.1	1.19	m_e mb	4.8
PLN	19.64		P	04:32:28.501	-0.8	250.2		10.97		TAS		84.7	1.15	m_e mb	4.9
RJOB	19.26		P	04:32:25.989	-1.1	250.2		10.97		TAS		86.5	0.79	m_e mb	5.0
ROTZ	19.42		P	04:32:26.268	-1.0	250.2		10.97		TAS		11.5	0.66	m_e mb	4.2
RUE	21.32		P	04:32:45.933		250.2		10.97		TAS		41.5	0.72	m_e mb	4.9
STU	17.23		P	04:32:03.843	0.7	250.2		10.97		TAS		141.4	0.92	m_e mb	5.1

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TANN	19.79	P	04:32:30.533	-1.1	250.2	10.97	TAS	32.8	0.75	m_e	mb	4.6
TNS	17.34	P	04:32:02.862	-1.2	250.2	10.97	TAS	20.0	0.60	m_e	mb	4.4
UBBA	18.50	P	04:32:18.060	1.5	250.2	10.97	TAS	57.3	1.60	m_e	mb	4.5
UBR	17.48	P	04:32:07.217	2.1	250.2	10.97	TAS	22.8	0.72	m_e	mb	4.4
WET	19.66	P	04:32:29.024	-0.1	250.2	10.97	TAS	33.8	0.77	m_e	mb	4.6
WLF	15.77	P	04:31:43.700	-3.0	250.2	10.97	TAS	232.5	1.61	m_e	mb	5.1

Event 81102001 Near south coast of western Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/02	07:53:54.20			33.6800	135.1500				30.0					82.40	83.25	m i ke	EMSC
OrigID																	
81102033																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	81102007
Ms	4.7		BGR	81102007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	83.25		P	08:06:17.475		44.2		4.67		TAS		41.3	1.06	m_e	mb	5.6
GRA1	83.25		L	08:49:51.487						T__		373.1	21.00	a_e	Ms	4.7
MOX	82.40		L	08:49:36.477						T__		261.9	20.00	a_e	Ms	4.6

Event 81102002 Near east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/02	09:39:30.10			52.2100	158.3100				78.0					74.70	74.70	m i ke	EMSC
OrigID																	
81102034																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	81102008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	74.70		P	09:51:02.101		20.3		5.09		TAS		12.9	1.00	m_e	mb	4.9

Event 81102004 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/02	11:01:15.20			47.8200	146.7300				431.0				29	75.55	75.55	m i ke	EMSC
OrigID																	
81102036																	

Magnitude Err Nsta Author OrigID
mb 6.8 BGR 81102010

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 75.55 P 11:12:14.198 29.2 4.90 TAS 636.0 0.88 m_e mb 6.8

Event 81102005 Xizang
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/11/02 22:35:09.30 34.1500 83.9500 10.0 54.21 54.21 m i ke EMSC
81102037

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 81102011

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 54.21 P 22:44:36.556 77.5 6.28 TAS 19.9 1.39 m_e mb 5.0

Event 81103002 Southern Sumatera, Indonesia
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/11/03 15:58:33.30 -3.7300 101.8700 50.0 93.24 93.24 m i EMSC
81103034

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 93.24 P 16:11:42.174 91.9 4.44 TAS 0.78 m_e

Event 81103003 Kyrgyzstan-Xinjiang border region
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/11/03 21:36:20.60 40.1200 77.6000 12.0 46.56 46.56 m i ke EMSC
81103035

Magnitude Err Nsta Author OrigID
mb 5.6 BGR 81103009

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 46.56 P 21:44:47.785 75.4 6.65 TAS 102.4 1.93 m_e mb 5.6

Event 81103004 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/03	22:21:43.50			-19.6700	179.9800				534.0					148.73	148.73	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	148.73		PKP	22:40:30.876		20.7		1.92		TAS					m_e

Event 81104001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/04	19:26:55.18			44.1200	146.6100				10.0				28	75.43	80.91	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb	6.2		BGR	81104007
MBB	6.5		BGR	81104007
Ms	5.8		BGR	81104007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	80.91		P	19:38:13.946		31.0		5.62		TAS		308.8	1.45	m_e	MBB 6.5
BRG	76.85		P	19:37:51.171	-0.2	31.0		5.62		TAS		212.7	1.40	m_e	MBB 6.5
BRG	76.85		PcP	19:37:58.884	-0.0	31.0		5.71		TAS				m_e	
BSEG	75.43		P	19:37:43.364	0.0	31.0		5.62		TAS		306.9	1.56	m_e	MBB 6.3
BSEG	75.43		PcP	19:37:50.598	0.6	31.0		5.71		TAS				m_e	
BUG	78.52		P	19:38:00.680	0.0	31.0		5.62		TAS		438.4	1.41	m_e	MBB 6.5
CLL	76.81		P	19:37:50.871	-0.1	31.0		5.62		TAS		348.3	1.26	m_e	MBB 6.6
CLZ	77.21		P	19:37:53.946	-0.3	31.0		5.62		TAS		479.9	1.39	m_e	MBB 6.7
CLZ	77.21		PcP	19:38:01.462	0.1	31.0		5.71		TAS				m_e	
FLT1	76.52		P	19:37:49.136	0.2	31.0		5.62		TAS		353.9	1.37	m_e	MBB 6.6
FLT1	76.52		PcP	19:37:56.665	0.2	31.0		5.71		TAS				m_e	
FUR	80.07		P	19:38:09.980	-0.5	31.0		5.62		TAS		524.5	1.36	m_e	MBB 6.6
GEC2	78.65		P	19:38:01.521	0.2	31.0		5.62		TAS		201.2	1.39	m_e	MBB 6.3
GOR1	75.93		P	19:37:46.424	-0.4	31.0		5.62		TAS		778.2	1.63	m_e	MBB 6.9
GOR1	75.93		PcP	19:37:54.333	-0.3	31.0		5.71		TAS				m_e	
GRA1	78.78		P	19:38:02.483	0.1	31.0		5.62		TAS		499.2	1.29	m_e	mb 6.4
GRA1	78.78		L	20:13:41.161						T_		4347.7	20.50	a_e	Ms 5.8
GTTG	77.59		P	19:37:55.798	-0.1	31.0		5.62		TAS		351.6	1.37	m_e	MBB 6.6
GTTG	77.59		PcP	19:38:03.440	-0.1	31.0		5.71		TAS				m_e	

IBBN	77.61	P	19:37:55.509	0.5	31.0	5.62	TAS	432.7	1.49	m_e	MBB	6.6
IBBN	77.61	PcP	19:38:03.550	-0.1	31.0	5.71	TAS			m_e		
KAST	78.38	P	19:38:00.005	-0.2	31.0	5.62	TAS	267.5	1.36	m_e	MBB	6.5
MANZ	78.23	P	19:37:59.177	0.3	31.0	5.62	TAS	36.1	1.30	m_e	MBB	5.8
MANZ	78.23	PcP	19:38:06.901		31.0	5.71	TAS			m_e		
MOX	77.83	P	19:37:56.880	0.2	31.0	5.62	TAS	290.3	1.41	m_e	MBB	6.5
MOX	77.83	PcP	19:38:04.656	0.2	31.0	5.71	TAS			m_e		
MOX	77.83	L	20:13:02.585				T__	5774.7	19.90	a_e	Ms	5.9
NEUB	77.31	P	19:37:53.825	0.2	31.0	5.62	TAS	401.3	1.34	m_e	MBB	6.6
NEUB	77.31	PcP	19:38:01.593	0.0	31.0	5.71	TAS			m_e		
NRDL	76.73	P	19:37:50.931	-0.4	31.0	5.62	TAS	285.9	1.48	m_e	MBB	6.5
NRDL	76.73	PcP	19:37:58.083	0.4	31.0	5.71	TAS			m_e		
PLN	77.79	P	19:37:56.772	-0.1	31.0	5.62	TAS	295.7	1.51	m_e	MBB	6.5
ROTZ	78.38	P	19:38:00.425	0.1	31.0	5.62	TAS	83.7	1.47	m_e	MBB	6.0
ROTZ	78.38	PcP	19:38:08.001		31.0	5.71	TAS			m_e		
RUE	75.56	P	19:37:44.266	0.2	31.0	5.62	TAS	564.7	1.43	m_e	MBB	6.8
STU	80.25	P	19:38:10.591	0.4	31.0	5.62	TAS	632.0	1.27	m_e	MBB	6.7
STU	80.25	PcP	19:38:18.135		31.0	5.71	TAS			m_e		
TANN	77.75	P	19:37:56.711	0.0	31.0	5.62	TAS	283.9	1.70	m_e	MBB	6.5
TANN	77.75	PcP	19:38:04.200	0.0	31.0	5.71	TAS			m_e		
TNS	79.22	P	19:38:04.872	0.4	31.0	5.62	TAS	273.0	1.34	m_e	MBB	6.4
TNS	79.22	PcP	19:38:12.598		31.0	5.71	TAS			m_e		
UBBA	78.21	P	19:37:58.923	0.0	31.0	5.62	TAS	458.6	1.80	m_e	MBB	6.5
UBR	80.89	P	19:38:13.706		31.0	5.62	TAS	368.8	1.74	m_e	MBB	6.4
WET	78.68	P	19:38:02.183	-0.0	31.0	5.62	TAS	351.8	1.30	m_e	MBB	6.5
WET	78.68	PcP	19:38:09.849		31.0	5.71	TAS			m_e		
WLF	80.42	P	19:38:11.674	0.0	31.0	5.62	TAS	734.8	2.12	m_e	MBB	6.4

Event 81105001 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/05	06:46:04.51		36.8180	21.8820				33.0				13		14.94	17.79	m i ke	BGR
81105007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	81105007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	15.81		P	06:49:49.042		145.1		11.12		TAS		32.3	1.17	m_e	mb 4.3
CLZ	17.09		P	06:50:03.069		145.1		11.12		TAS		34.4	1.06	m_e	mb 4.4
FLT1	17.23		P	06:50:03.723		145.1		11.12		TAS		25.8	1.22	m_e	mb 4.2
GOR1	17.79		P	06:50:10.528		145.1		11.12		TAS		115.3	1.89	m_e	mb 4.7
GRA1	15.01		P	06:49:39.685	-0.6	145.1		11.12		TAS		53.7	0.96	m_e	
GTTG	16.99		P	06:50:01.629		145.1		11.12		TAS		21.2	0.84	m_e	
KAST	17.30		P	06:50:04.672		145.1		11.12		TAS		21.3	1.23	m_e	
MANZ	14.94		P	06:49:39.004	-0.9	145.1		11.12		TAS		4.1	0.87	m_e	

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NEUB	16.08	P	06:49:52.342	145.1	11.12	TAS	111.7	1.21	m_e
PLN	15.35	P	06:49:43.640	0.5 145.1	11.12	TAS	15.3	0.87	m_e
TANN	15.19	P	06:49:41.869	-0.1 145.1	11.12	TAS	12.8	0.87	m_e
TNS	16.53	P	06:49:56.125	145.1	11.12	TAS	41.2	1.30	m_e
WLF	17.16	P	06:50:03.250	145.1	11.12	TAS	66.8	1.00	m_e

Event 81105006 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/05	14:46:54.80			29.2500	130.5300				10.0					84.73	84.73	m i ke	EMSC
OrigID 81105038																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81105012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.73		P	14:59:29.305		49.9		4.64		TAS		15.9	1.08	m_e mb	5.2

Event 81106007 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/06	14:26:51.50			46.4600	150.6600				100.0					77.97	77.97	m i ke	EMSC
OrigID 81106039																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	81106013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	77.97		P	14:38:38.994		27.4		4.32		TAS		8.5	0.90	m_e mb	4.9

Event 81106001 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/06	16:11:49.10			-22.4300	-174.7800				80.0					152.38	152.38	m i ke	EMSC
OrigID 81106033																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	152.38		PKP	16:31:37.631		12.0		1.51		TAS				m_e	

Event	Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
81108004 Poland	2018/11/08	19:23:37.70	0.32	1.30	50.1560	18.7020	6.7	4.4	178	1.0			21	144	0.48	5.26	m i ki	BGR
	81108010																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.3		BGR	81108010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	3.12		Sg	19:25:16.142	-0.6					T__				m_e	
BRG	3.12		Pn	19:24:28.045	1.3					T__				m_e ML	4.0
BRG	3.12		Pg	19:24:35.643	-0.8					T__				m_e	
CLL	3.80		Pn	19:24:37.675	1.8					T__				m_e	
CLL	3.80		Pg	19:24:48.562	-0.7					T__				m_e	
CLL	3.80		Sg	19:25:39.431	1.1					T__				m_e ML	4.4
DPC	1.48		Sg	19:24:27.291	2.5					T__				m_e	
DPC	1.48		Pn	19:24:05.358	0.7					T__				m_e ML	4.7
DPC	1.48		Pg	19:24:06.193	0.6					T__				m_e	
FBE	3.50		Sg	19:25:27.804	-0.9					T__				m_e ML	4.1
FLT1	5.17		Sg	19:26:22.462	0.7					T__				m_e ML	4.2
FUR	5.26		Sg	19:26:24.955	0.2					T__				m_e ML	5.0
GEC2	3.51		Sg	19:25:28.740	-0.5					T__				m_e	
GEC2	3.51		Pg	19:24:42.954	-0.9					T__				m_e ML	4.4
GRA1	4.86		Sg	19:26:10.748	-1.0					T__				m_e ML	4.6
KSP	1.69		Pn	19:24:07.097	-0.3					T__				m_e ML	3.7
KSP	1.69		Pg	19:24:08.852	-0.6					T__				m_e	
MANZ	4.25		Sg	19:25:49.248	-3.3					T__				m_e ML	4.4
MORC	0.84		Sg	19:24:05.445	1.1					T__				m_e	
MORC	0.84		Pg	19:23:53.943	0.4					T__				m_e ML	4.3
MOX	4.56		Sg	19:26:03.787	1.4					T__				m_e ML	4.3
NEUB	4.53		Sg	19:26:02.674	1.3					T__				m_e ML	4.8
OJC	0.71		Sg	19:23:59.503	-0.7					T__				m_e	
OJC	0.71		Pg	19:23:50.194	-0.8					T__				m_e	
OKC	0.48		Sg	19:23:54.982	2.0					T__				m_e	
OKC	0.48		Pg	19:23:47.680	0.9					T__				m_e ML	3.1
PLN	4.21		Sg	19:25:48.711	-2.5					T__				m_e ML	4.3
ROTZ	4.21		Sg	19:25:51.316	-0.0					T__				m_e ML	4.3
RUE	3.86		Pg	19:24:50.481	0.1					T__				m_e	
RUE	3.86		Sg	19:25:41.420	1.1					T__				m_e ML	4.4
TANN	4.01		Sg	19:25:45.314	0.3					T__				m_e ML	4.3
WERD	4.11		Sg	19:25:46.382	-1.8					T__				m_e ML	4.2
WET	3.92		Sg	19:25:39.786	-2.2					T__				m_e ML	4.5

Event 81109002 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/09	01:49:46.94			71.1500	-10.5800				10.0			29		19.57	25.50	m i ke	BGR
81109008																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.7		BGR	81109008
Ms	6.4		BGR	81109008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	24.56		P	01:55:03.639	-0.3	343.0		10.09		TAS		7175.2	2.04	a_e	mb 7.0
BRG	23.22		P	01:54:50.871	0.6	343.0		10.09		TAS		2804.7	1.61	m_e	mb 6.5
BSEG	19.57		P	01:54:12.972	-1.3	343.0		10.09		TAS		11138.4	1.93	m_e	mb 6.8
BUG	21.38		P	01:54:32.457	0.4	343.0		10.09		TAS		8956.9	1.79	m_e	mb 6.8
CLL	22.61		P	01:54:44.799	0.3	343.0		10.09		TAS		3790.3	1.32	m_e	mb 6.8
CLZ	21.56		P	01:54:34.329	-0.2	343.0		10.09		TAS		4706.4	1.65	m_e	mb 6.7
FLT1	21.27		P	01:54:30.794	-0.6	343.0		10.09		TAS		14929.9	2.03	m_e	mb 7.0
FUR	25.25		P	01:55:10.980	-0.8	343.0		10.09		TAS		2771.6	1.09	m_e	mb 6.9
GEC2	25.08		P	01:55:09.865	0.2	343.0		10.09		TAS		2677.9	1.12	m_e	mb 6.9
GOR1	20.67		P	01:54:24.834	-0.3	343.0		10.09		TAS		21886.1	1.86	m_e	mb 7.2
GRA1	23.78		P	01:54:56.339	-0.6	343.0		10.09		TAS		9478.8	1.66	a_e	mb 7.1
GRA1	23.78		L	02:04:19.339						T__		142952.0	20.40	a_e	Ms 6.4
GTTG	21.76		P	01:54:36.750	0.2	343.0		10.09		TAS		3273.6	1.25	m_e	mb 6.6
IBBN	20.63		P	01:54:23.857	-1.0	343.0		10.09		TAS		2306.5	1.41	m_e	mb 6.3
KAST	21.81		P	01:54:37.043	0.3	343.0		10.09		TAS		2946.7	1.24	m_e	mb 6.6
MANZ	23.67		P	01:54:55.647	-0.1	343.0		10.09		TAS		775.4	1.77	m_e	mb 5.9
MOX	22.95		P	01:54:48.686	0.3	343.0		10.09		TAS		2271.0	1.25	m_e	mb 6.6
MOX	22.95		L	02:03:22.934						T__		136517.0	19.80	a_e	Ms 6.4
NEUB	22.46		P	01:54:43.170	-0.2	343.0		10.09		TAS		4753.7	1.43	m_e	mb 6.7
NRDL	20.89		P	01:54:27.455	-0.3	343.0		10.09		TAS		5329.2	1.26	m_e	mb 6.7
PLN	23.21		P	01:54:50.539	-0.4	343.0		10.09		TAS		3140.1	1.22	a_e	mb 6.7
RGN	19.65		P	01:54:13.870	0.5	343.0		10.09		TAS		9742.8	1.40	m_e	mb 6.8
ROTZ	23.90		P	01:54:58.172	0.1	343.0		10.09		TAS		402.5	1.18	m_e	mb 5.8
RUE	21.68		P	01:54:35.565	1.2	343.0		10.09		TAS		9787.5	1.44	m_e	mb 7.0
STU	24.28		P	01:55:01.189	-0.5	343.0		10.09		TAS		13532.3	1.86	a_e	mb 7.2
TANN	23.34		P	01:54:52.802	0.6	343.0		10.09		TAS		3119.8	1.32	m_e	mb 6.7
TNS	22.75		P	01:54:46.793	0.6	343.0		10.09		TAS		4101.0	1.64	m_e	mb 6.7
UBBA	22.47		P	01:54:43.879	0.2	343.0		10.09		TAS		15366.1	2.25	m_e	mb 7.0
UBR	25.50		P	01:55:13.409	-0.6	343.0		10.09		TAS		1115.9	1.16	m_e	mb 6.5
WET	24.63		P	01:55:05.189	-0.1	343.0		10.09		TAS		4433.8	1.81	a_e	mb 6.9
WLF	22.91		P	01:54:48.289	1.9	343.0		10.09		TAS		5284.8	1.90	m_e	mb 6.7

Event 81110002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/10	08:33:21.47			-20.5290	-174.0100				33.0			30		145.58	152.71	m i ke	BGR
81110008																	

Magnitude	Err	Nsta	Author	OrigID
Ms 6.0			BGR	81110008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.20		PKPbc	08:53:13.229	-0.4	10.0		2.51		TAS					a_e
BRG	149.08		PKPbc	08:53:06.234	0.5	10.0		2.51		TAS					m_e
BSEG	146.49		PKPbc	08:52:59.042	-0.2	10.0		2.51		TAS					m_e
BUG	149.13		PKPbc	08:53:05.693	-0.4	10.0		2.51		TAS					m_e
CLL	148.79		PKPbc	08:53:05.029	0.0	10.0		2.51		TAS					a_e
CLZ	148.56		PKPbc	08:53:05.006	0.6	10.0		2.51		TAS					m_e
FLT1	148.00		PKPbc	08:53:02.729	-0.3	10.0		2.51		TAS					a_e
FUR	152.10		PKPbc	08:53:12.929	-0.4	10.0		2.51		TAS					a_e
GEC2	151.08		PKPbc	08:53:10.779	-0.1	10.0		2.51		TAS					a_e
GOR1	147.34		PKPbc	08:53:01.517	0.2	10.0		2.51		TAS					m_e
GRA1	150.60		PKPbc	08:53:09.841	0.3	10.0		2.51		TAS					m_e
GRA1	150.60		L	09:58:16.957						T__		2970.2	21.50	a_e Ms	6.1
GTTG	148.89		PKPbc	08:53:05.674	0.4	10.0		2.51		TAS					m_e
IBBN	148.25		PKPbc	08:53:03.770	-0.1	10.0		2.51		TAS					m_e
KAST	149.33		PKPbc	08:53:06.579	0.1	10.0		2.51		TAS					a_e
MANZ	150.21		PKPbc	08:53:08.929	0.4	10.0		2.51		TAS					a_e
MOX	149.62		PKPbc	08:53:07.279	0.2	10.0		2.51		TAS					a_e
MOX	149.62		L	09:57:38.484						T__		2322.3	22.00	a_e Ms	5.9
NEUB	149.06		PKPbc	08:53:05.779	0.1	10.0		2.51		TAS					a_e
NRDL	147.94		PKPbc	08:53:02.829	-0.0	10.0		2.51		TAS					a_e
PLN	149.71		PKPbc	08:53:07.579	0.3	10.0		2.51		TAS					a_e
RGN	145.58		PKPbc	08:52:55.868	-1.1	10.0		2.51		TAS					m_e
RJOB	152.30		PKPbc	08:53:13.179	-0.7	10.0		2.51		TAS					a_e
ROTZ	150.41		PKPbc	08:53:09.329	0.3	10.0		2.51		TAS					a_e
RUE	147.54		PKPbc	08:53:01.681	-0.2	10.0		2.51		TAS					m_e
STU	151.71		PKPbc	08:53:12.229	-0.1	10.0		2.51		TAS					a_e
TANN	149.74		PKPbc	08:53:07.629	0.2	10.0		2.51		TAS					a_e
TNS	150.31		PKPbc	08:53:09.225	0.3	10.0		2.51		TAS					m_e
UBBA	149.61		PKPbc	08:53:07.169	0.1	10.0		2.51		TAS					m_e
UBR	152.71		PKPbc	08:53:14.229	-0.6	10.0		2.51		TAS					m_e
WET	150.92		PKPbc	08:53:10.631	0.2	10.0		2.51		TAS					m_e
WLF	150.93		PKPbc	08:53:11.029	0.3	10.0		2.51		TAS					a_e

Event 81111001 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/11	00:28:08.57			-18.5650	-172.2760				33.0			11		146.09	150.61	m i ke	BGR

81111007

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	147.39		PKPbc	00:47:48.752	-0.4	6.4		2.70		TAS					m_e
CLL	147.06		PKPbc	00:47:47.698	0.1	6.4		2.70		TAS					m_e
FLT1	146.19		PKPbc	00:47:44.958	0.0	6.4		2.70		TAS					m_e
FUR	150.34		PKPbc	00:47:56.589		6.4		2.70		TAS					m_e
GEC2	149.41		PKPbc	00:47:53.928		6.4		2.70		TAS					m_e
IBBN	146.33		PKPbc	00:47:45.904	-0.3	6.4		2.70		TAS					m_e
MANZ	148.46		PKPbc	00:47:51.887		6.4		2.70		TAS					m_e
NRDL	146.09		PKPbc	00:47:44.933	0.0	6.4		2.70		TAS					m_e
RJOB	150.61		PKPbc	00:47:56.925		6.4		2.70		TAS					m_e
ROTZ	148.66		PKPbc	00:47:52.157		6.4		2.70		TAS					m_e
WET	149.21		PKPbc	00:47:53.559		6.4		2.70		TAS					m_e

Event 81111002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/11	08:01:38.40			-17.9030	-175.8120				33.0			8		143.73	148.18	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	146.20		PKPbc	08:21:15.145		12.6		2.82		TAS					m_e
BSEG	143.73		PKPbc	08:21:07.877	0.0	12.6		2.82		TAS					m_e
CLL	145.94		PKPbc	08:21:14.452		12.6		2.82		TAS					m_e
FLT1	145.20		PKPbc	08:21:12.201	-0.4	12.6		2.82		TAS					m_e
GEC2	148.18		PKPbc	08:21:20.284		12.6		2.82		TAS					m_e
MANZ	147.37		PKPbc	08:21:18.520		12.6		2.82		TAS					m_e
ROTZ	147.56		PKPbc	08:21:18.825		12.6		2.82		TAS					m_e
TANN	146.89		PKPbc	08:21:17.230		12.6		2.82		TAS					m_e

Event 81111003 North Atlantic Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/11	14:04:04.00			15.5700	-50.0100				10.0			21		56.53	61.67	m i ke	EMSC

Magnitude Err Nsta Author OrigID

mb 6.2 BGR 81111009

Ms 5.8 BGR 81111009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	57.57		P	14:13:48.305		258.0		7.18		TAS		688.9	1.74	m_e	mb 6.4
BRG	61.67		P	14:14:16.829	0.1	258.0		7.18		TAS		406.6	1.66	m_e	mb 6.4
BUG	57.72		P	14:13:49.293	0.8	258.0		7.18		TAS		350.5	1.58	m_e	mb 6.2
CLL	61.17		P	14:14:13.279	0.0	258.0		7.18		TAS		514.7	1.79	m_e	mb 6.1
CLZ	59.69		P	14:14:03.184	-0.2	258.0		7.18		TAS		293.7	1.57	m_e	mb 6.1
FLT1	60.32		P	14:14:07.215	-0.1	258.0		7.18		TAS		533.7	1.71	m_e	mb 6.3
GEC2	61.17		P	14:14:13.028		258.0		7.18		TAS		373.5	1.58	m_e	mb 6.0
GRA1	59.73		P	14:14:03.401		258.0		7.18		TAS		1508.5	2.63	m_e	mb 6.6
GRA1	59.73		L	14:35:42.081						T__		6489.7	19.50	a_e	Ms 5.8
GTTG	59.37		P	14:14:01.140	0.1	258.0		7.18		TAS		324.8	1.49	m_e	mb 6.1
IBBN	58.25		P	14:13:53.359	-0.4	258.0		7.18		TAS		1115.2	2.07	m_e	mb 6.5
MANZ	60.35		P	14:14:07.776	1.1	258.0		7.18		TAS		318.0	2.45	m_e	mb 5.9
MOX	60.18		P	14:14:06.459	-0.4	258.0		7.18		TAS		369.2	1.87	m_e	mb 6.1
MOX	60.18		L	14:34:47.619						T__		7899.5	20.80	a_e	Ms 5.8
PLN	60.48		P	14:14:08.522	0.4	258.0		7.18		TAS		999.2	2.39	m_e	mb 6.4
RJOB	60.39		P	14:14:07.589		258.0		7.18		TAS		222.0	1.61	m_e	mb 5.9
ROTZ	60.37		P	14:14:07.695		258.0		7.18		TAS		229.0	2.26	m_e	mb 5.8
STU	58.23		P	14:13:52.816		258.0		7.18		TAS		1155.9	1.66	m_e	mb 6.6
TANN	60.66		P	14:14:10.036	0.6	258.0		7.18		TAS		976.6	2.14	m_e	mb 6.3
TNS	58.11		P	14:13:52.424	-0.1	258.0		7.18		TAS		1235.9	2.19	m_e	mb 6.5
UBR	58.59		P	14:13:55.903		258.0		7.18		TAS		845.2	1.85	m_e	mb 6.5
WET	60.69		P	14:14:09.757		258.0		7.18		TAS		560.2	1.98	m_e	mb 6.0
WLF	56.53		P	14:13:37.419		258.0		7.18		TAS		387.5	1.62	m_e	mb 6.2

Event 81111004 Ionian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/11	23:38:35.90			37.7100	20.4300				10.0					11.48	14.38	m i ke	EMSC
	81111036																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GEC2	12.15		Pn	23:41:27.000						T__				m_e	
MANZ	13.65		Pn	23:41:47.706						T__				m_e	
MOX	14.38		Pn	23:41:57.290						T__				m_e	
RJOB	11.48		Pn	23:41:19.815						T__				m_e	
ROTZ	13.43		Pn	23:41:45.055						T__				m_e	
UBR	12.51		Pn	23:41:35.353						T__				m_e	
WET	12.67		Pn	23:41:33.918						T__				m_e	

Event 81114005 Near east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/14	21:21:56.55			56.6280	162.0080				24.9	1.1		29		66.28	73.45	m i ke	BGR
81114011																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.2		BGR	81114011
MBB	6.7		BGR	81114011
Ms	5.8		BGR	81114011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	73.14		P	21:33:21.002	0.1	16.5		6.07		TAS		145.8	1.11	m_e	MBB	6.5
BRG	69.66		P	21:33:00.217	-0.3	16.5		6.07		TAS		214.5	1.15	m_e	MBB	6.6
BSEG	67.39		P	21:32:46.833	0.1	16.5		6.07		TAS		289.6	1.31	m_e	MBB	6.8
BUG	70.30		P	21:33:04.374	0.1	16.5		6.07		TAS		161.2	1.02	m_e	MBB	6.5
BUG	70.30		pP	21:33:11.117						T__				m_e		
CLL	69.43		P	21:32:58.797	-0.4	16.5		6.07		TAS		478.7	1.33	m_e	MBB	6.8
CLZ	69.40		P	21:32:59.405	0.5	16.5		6.07		TAS		366.7	1.31	m_e	MBB	6.8
FLT1	68.77		P	21:32:54.640	-0.6	16.5		6.07		TAS		229.7	1.34	m_e	MBB	6.6
FLT1	68.77		pP	21:33:01.674						T__				m_e		
FUR	72.77		P	21:33:19.278	-0.2	16.5		6.07		TAS		232.5	0.99	m_e	MBB	6.7
GEC2	71.64		P	21:33:12.586	-0.6	16.5		6.07		TAS		176.9	1.03	m_e	MBB	6.6
GOR1	68.13		P	21:32:51.395	0.1	16.5		6.07		TAS		578.7	1.53	m_e	MBB	7.0
GRA1	71.31		P	21:33:11.167	0.0	16.5		6.07		TAS		391.0	1.08	m_e	mb	6.5
GRA1	71.31		L	22:07:49.595						T__		6241.2	22.00	a_e	Ms	5.8
GTTG	69.75		P	21:33:01.230	0.1	16.5		6.07		TAS		248.8	1.48	m_e	MBB	6.5
IBBN	69.38		P	21:32:59.000	0.3	16.5		6.07		TAS		271.9	1.16	m_e	MBB	6.9
KAST	70.34		P	21:33:04.881	0.2	16.5		6.07		TAS		224.3	1.38	m_e	MBB	6.5
MANZ	70.86		P	21:33:07.922	0.3	16.5		6.07		TAS		46.8	1.13	m_e	MBB	5.9
MOX	70.32		P	21:33:04.576	0.2	16.5		6.07		TAS		224.8	1.11	m_e	MBB	6.6
MOX	70.32		L	22:05:59.771						T__		5613.3	22.00	a_e	Ms	5.8
NEUB	69.77		P	21:33:01.018	-0.2	16.5		6.07		TAS		214.2	1.07	m_e	MBB	6.6
NRDL	68.81		P	21:32:55.147	-0.3	16.5		6.07		TAS		179.1	1.25	m_e	MBB	6.7
PLN	70.37		P	21:33:05.083	0.2	16.5		6.07		TAS		293.3	1.23	m_e	MBB	6.7
RETH	68.70		P	21:32:54.640	-0.1	16.5		6.07		TAS		334.3	1.52	m_e	MBB	6.7
RGN	66.28		P	21:32:39.837	-0.2	16.5		6.07		TAS		418.6	1.06	m_e	MBB	7.0
RGN	66.28		pP	21:32:47.093						T__				m_e		
RJOB	72.88		P	21:33:20.191		16.5		6.07		TAS		195.0	0.91	m_e	MBB	6.5
ROTZ	71.05		P	21:33:09.342	0.6	16.5		6.07		TAS		73.2	1.20	m_e	MBB	6.1
RUE	68.17		P	21:32:51.497	-0.0	16.5		6.07		TAS		378.6	1.08	m_e	MBB	7.0
RUE	68.17		pP	21:32:58.564						T__				m_e		
STU	72.56		P	21:33:17.960	-0.2	16.5		6.07		TAS		333.8	1.14	m_e	MBB	6.8
TANN	70.38		P	21:33:05.185	0.1	16.5		6.07		TAS		418.7	1.47	m_e	MBB	6.7
TNS	71.29		P	21:33:10.457	0.1	16.5		6.07		TAS		171.7	1.20	m_e	MBB	6.5
TNS	71.29		pP	21:33:17.628						T__				m_e		
UBR	73.45		P	21:33:23.334		16.5		6.07		TAS		259.1	1.14	m_e	MBB	6.6
WET	71.52		P	21:33:12.282	-0.2	16.5		6.07		TAS		305.6	1.14	m_e	MBB	6.7

WET 71.52 pP 21:33:19.382 T__ m_e

Event 81115001 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/15	00:09:17.74			70.8540	-6.6520				10.0			26		18.58	24.97	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81115007
Ms	4.0		BGR	81115007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	23.69		P	00:14:25.276		344.9		10.27		TAS		47.6	1.18	m_e mb	4.9
BRG	22.18		P	00:14:10.244	-0.5	344.9		10.27		TAS		40.9	1.21	m_e mb	4.7
BSEG	18.58		P	00:13:32.596	-0.7	344.9		10.27		TAS		236.6	2.34	m_e mb	5.0
BUG	20.50		P	00:13:52.875	0.1	344.9		10.27		TAS		331.2	1.58	m_e mb	5.3
CLL	21.58		P	00:14:04.527	-0.1	344.9		10.27		TAS		145.6	1.60	m_e mb	5.2
CLZ	20.59		P	00:13:54.345	0.2	344.9		10.27		TAS		242.2	1.98	m_e mb	5.2
FLT1	20.28		P	00:13:50.375	0.5	344.9		10.27		TAS		246.5	2.00	m_e mb	5.1
GEC2	24.07		P	00:14:30.069	-1.1	344.9		10.27		TAS		33.4	1.18	m_e mb	4.8
GRA1	22.81		P	00:14:17.370	0.0	344.9		10.27		TAS		178.6	1.72	m_e mb	5.3
GRA1	22.81		L	00:23:28.994						T__		700.7	19.50	a_e Ms	4.1
GTTG	20.81		P	00:13:57.221	0.4	344.9		10.27		TAS		147.5	1.69	m_e mb	5.0
IBBN	19.73		P	00:13:44.909	-0.1	344.9		10.27		TAS		33.9	1.02	m_e mb	4.5
KAST	20.90		P	00:13:57.307	0.4	344.9		10.27		TAS		94.7	1.45	m_e mb	4.9
MANZ	22.68		P	00:14:15.862	0.1	344.9		10.27		TAS		21.6	1.80	m_e mb	4.4
MOX	21.96		P	00:14:08.009	0.5	344.9		10.27		TAS		32.3	0.91	m_e mb	4.8
MOX	21.96		L	00:22:33.271						T__		391.3	20.20	a_e Ms	3.8
NEUB	21.46		P	00:14:03.205	-0.2	344.9		10.27		TAS		86.3	1.38	m_e mb	4.9
NRDL	19.92		P	00:13:47.169	-0.2	344.9		10.27		TAS		89.4	1.24	m_e mb	4.9
PLN	22.21		P	00:14:11.146	0.0	344.9		10.27		TAS		67.9	1.00	m_e mb	5.0
RETH	19.56		P	00:13:43.183	1.4	344.9		10.27		TAS		219.3	2.25	m_e mb	5.0
RJOB	24.97		P	00:14:38.084		344.9		10.27		TAS		25.1	0.90	m_e mb	5.0
ROTZ	22.91		P	00:14:18.256	0.4	344.9		10.27		TAS		18.1	1.61	m_e mb	4.3
RUE	20.62		P	00:13:54.978	-0.7	344.9		10.27		TAS		435.9	1.85	m_e mb	5.5
TANN	22.33		P	00:14:12.649	0.1	344.9		10.27		TAS		160.0	1.50	m_e mb	5.2
UBBA	21.52		P	00:14:03.721	0.2	344.9		10.27		TAS		168.3	1.78	m_e mb	5.2
UBR	24.59		P	00:14:34.113		344.9		10.27		TAS		112.8	1.92	m_e mb	5.3
WET	23.63		P	00:14:25.933	-1.3	344.9		10.27		TAS		137.9	1.82	m_e mb	5.2
WLF	22.09		P	00:14:09.335	0.3	344.9		10.27		TAS		116.0	1.70	m_e mb	5.0

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/15	09:02:05.10			37.5000	20.6400				10.0					11.74	17.16	m i ke	EMSC
81115090																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLZ	16.07		Pn	09:05:55.849						T__					m_e
GEC2	12.41		Pn	09:04:59.953						T__					m_e
MOX	14.64		Pn	09:05:30.511						T__					m_e
NEUB	15.07		Pn	09:05:45.057						T__					m_e
RETH	17.16		Pn	09:06:08.084						T__					m_e
RJOB	11.74		Pn	09:04:52.768						T__					m_e
ROTZ	13.69		Pn	09:05:20.622						T__					m_e
TANN	14.18		Pn	09:05:27.004						T__					m_e
TNS	15.43		Pn	09:05:42.579						T__					m_e
WET	12.93		Pn	09:05:07.507						T__					m_e

Event 81115004 Southern East Pacific Rise

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/15	23:09:03.40			-56.2900	-122.0700				30.0				14	148.78	153.69	m i ke	EMSC
81115092																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.3		BGR	81115010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.25		PKPdf	23:28:47.235		228.5		1.85		TAS					m_e
BRG	153.69		PKPdf	23:28:55.115	0.6	228.5		1.85		TAS					m_e
BSEG	153.09		PKPdf	23:28:59.225	1.9	228.5		1.85		TAS					m_e
BUG	150.30		PKPdf	23:28:50.059	0.7	228.5		1.85		TAS					m_e
CLZ	152.19		PKPdf	23:28:54.791	0.5	228.5		1.85		TAS					m_e
FUR	150.79		PKPdf	23:28:51.092		228.5		1.85		TAS					m_e
GRA1	151.59		PKPdf	23:28:53.553		228.5		1.85		TAS					m_e
GRA1	151.59		L	00:35:52.509						T__		4434.6	19.50	a_e Ms	6.3
KAST	150.81		PKPdf	23:28:51.421	-1.3	228.5		1.85		TAS					m_e
MOX	152.29		PKPdf	23:28:54.882		228.5		1.85		TAS					m_e
MOX	152.29		L	00:30:43.944						T__		4448.1	20.90	a_e Ms	6.2
NRDL	152.35		PKPdf	23:28:54.296	-1.6	228.5		1.85		TAS					m_e
RJOB	151.40		PKPdf	23:28:52.517		228.5		1.85		TAS					m_e
UBR	149.87		PKPdf	23:28:49.308		228.5		1.85		TAS					m_e
WET	152.22		PKPdf	23:28:54.351		228.5		1.85		TAS					m_e
WLF	148.78		PKPdf	23:28:50.316		228.5		1.85		TAS					m_e

Event 81116001 Eastern Siberia, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/16	01:05:38.07			65.8900	-169.7500				11.4	2.1		23		60.50	66.77	m i ke	BGR
OrigID 81116007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	81116007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	66.11		P	01:16:21.122		0.1		6.57		TAS					m_e
BFO	66.11		pP	01:16:24.290	-0.2					T__					m_e
BRG	63.54		P	01:16:04.655	0.3	0.1		6.57		TAS					m_e
BSEG	60.50		P	01:15:44.110	-0.2	0.1		6.57		TAS		4.9	0.82	m_e mb	4.4
BSEG	60.50		pP	01:15:47.391	-0.2					T__					m_e
BUG	62.98		P	01:16:00.975		0.1		6.57		TAS					m_e
CLL	63.12		P	01:16:01.524	-0.3	0.1		6.57		TAS		4.2	0.96	m_e mb	4.5
CLZ	62.60		P	01:15:57.922		0.1		6.57		TAS		7.6	0.81	m_e mb	4.9
GEC2	65.57		P	01:16:18.094		0.1		6.57		TAS		4.5	1.00	m_e mb	4.7
GEC2	65.57		pP	01:16:21.261	-0.2					T__					m_e
GRA1	64.75		P	01:16:12.436		0.1		6.57		TAS					m_e
GTTG	62.90		P	01:15:59.978		0.1		6.57		TAS					m_e
GTTG	62.90		pP	01:16:03.372	-0.2					T__					m_e
IBBN	62.12		P	01:15:55.051		0.1		6.57		TAS					m_e
IBBN	62.12		pP	01:15:58.276	-0.2					T__					m_e
KAST	63.23		P	01:16:02.530	-0.3	0.1		6.57		TAS		2.7	0.91	m_e mb	4.4
KAST	63.23		pP	01:16:05.528	-0.2					T__					m_e
MANZ	64.45		P	01:16:10.569		0.1		6.57		TAS		1.0	1.08	m_e mb	4.0
MOX	63.79		P	01:16:06.383		0.1		6.57		TAS		4.7	0.96	m_e mb	4.7
NEUB	63.24		P	01:16:02.562	0.3	0.1		6.57		TAS					m_e
NRDL	61.95		P	01:15:53.692		0.1		6.57		TAS					m_e
NRDL	61.95		pP	01:15:56.917	-0.2					T__					m_e
RJOB	66.69		P	01:16:24.813		0.1		6.57		TAS		1.9	0.81	m_e mb	4.4
RJOB	66.69		pP	01:16:28.321	-0.2					T__					m_e
ROTZ	64.67		P	01:16:11.757		0.1		6.57		TAS					m_e
TANN	64.02		P	01:16:07.902		0.1		6.57		TAS					m_e
TNS	64.21		P	01:16:09.309		0.1		6.57		TAS					m_e
TNS	64.21		pP	01:16:11.911	-0.2					T__					m_e
UBBA	63.62		P	01:16:05.324	0.3	0.1		6.57		TAS					m_e
UBBA	63.62		pP	01:16:08.152	-0.2					T__					m_e
UBR	66.77		P	01:16:25.267		0.1		6.57		TAS		3.7	0.82	m_e mb	4.7
UBR	66.77		pP	01:16:28.944	-0.2					T__					m_e
WET	65.28		P	01:16:15.683		0.1		6.57		TAS		2.7	0.86	m_e mb	4.5
WLF	64.74		P	01:16:12.370		0.1		6.57		TAS		5.3	0.89	m_e mb	4.8
WLF	64.74		pP	01:16:15.707	-0.2					T__					m_e

Event 81116002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/16	03:30:10.43			-21.4920	169.3720				33.0					146.97	146.97	m i ke	BGR
OrigID 81116008																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.97		PKPbc	03:49:49.073		47.1		2.32		TAS					m_e

Event 81116003 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/16	20:17:35.02			29.6230	57.3120				33.0					39.99	39.99	m i ke	BGR
OrigID 81116009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	81116009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	39.99		P	20:25:06.310		109.8		8.90		TAS		14.7	0.97	m_e mb	4.6

Event 81117001 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/17	13:18:06.28			14.2800	-47.4400				10.0				20	56.87	61.06	m i ke	BGR
OrigID 81117007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81117007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	56.87		P	13:27:47.657		254.6		7.03		TAS		7.5	0.93	m_e mb	4.7
BRG	61.06		P	13:28:17.071		254.6		7.03		TAS		11.4	1.11	m_e mb	4.6
BSEG	59.77		P	13:28:07.540		254.6		7.03		TAS		8.9	0.85	m_e mb	4.8
CLL	60.59		P	13:28:13.998		254.6		7.03		TAS		20.7	1.19	m_e mb	4.8
CLZ	59.16		P	13:28:04.100		254.6		7.03		TAS		8.5	0.96	m_e mb	4.8
FLT1	59.81		P	13:28:08.218		254.6		7.03		TAS		9.1	1.02	m_e mb	4.8
GEC2	60.45		P	13:28:12.604		254.6		7.03		TAS		14.1	1.14	m_e mb	4.9

IBBN	57.78	P	13:27:54.166	254.6	7.03	TAS	11.7	0.83	m_e mb	5.0
KAST	57.80	P	13:27:54.505	0.4 254.6	7.03	TAS	8.7	1.20	m_e mb	4.7
MANZ	59.71	P	13:28:07.641	254.6	7.03	TAS			m_e	
MOX	59.58	P	13:28:06.907	254.6	7.03	TAS	5.0	1.07	m_e mb	4.5
NRDL	59.20	P	13:28:04.692	254.6	7.03	TAS	22.6	1.18	m_e mb	5.1
RJOB	59.62	P	13:28:07.183	254.6	7.03	TAS	13.5	1.15	m_e mb	4.9
ROTZ	59.72	P	13:28:07.578	254.6	7.03	TAS	4.1	1.43	m_e mb	4.3
STU	57.55	P	13:27:52.552	254.6	7.03	TAS	40.3	0.99	m_e mb	5.4
TANN	60.04	P	13:28:10.479	254.6	7.03	TAS			m_e	
TNS	57.51	P	13:27:52.395	254.6	7.03	TAS	5.7	0.71	m_e mb	4.7
UBBA	58.64	P	13:28:00.004	254.6	7.03	TAS	17.8	1.50	m_e mb	4.9
UBR	57.84	P	13:27:54.905	254.6	7.03	TAS	10.6	0.90	m_e mb	4.9
WET	59.99	P	13:28:08.823	254.6	7.03	TAS	5.6	1.02	m_e mb	4.5

Event 81117003 Bering Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/17	14:39:59.62			56.0320	176.3480				10.0			12		69.80	75.69	m i ke	BGR
81117009																	

Magnitude Err Nsta Author OrigID
 mb 4.7 BGR 81117009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	72.47		P	14:51:20.902	-0.3	8.6		5.88		TAS		5.8	0.97	m_e mb	4.7
BSEG	69.80		P	14:51:05.444	1.1	8.6		5.88		TAS		11.2	0.87	m_e mb	5.0
CLL	72.14		P	14:51:18.907	-0.4	8.6		5.88		TAS		8.1	1.01	m_e mb	4.8
FLT1	71.31		P	14:51:14.012	-0.6	8.6		5.88		TAS		4.6	0.87	m_e mb	4.6
GEC2	74.49		P	14:51:33.040	0.5	8.6		5.88		TAS		9.1	0.95	m_e mb	4.8
GRA1	73.92		P	14:51:29.742	-0.6	8.6		5.88		TAS		12.0	0.92	m_e mb	4.9
MANZ	73.54		P	14:51:27.647	0.1	8.6		5.88		TAS		1.5	0.97	m_e mb	4.0
MOX	72.94		P	14:51:23.561	-0.5	8.6		5.88		TAS		6.1	0.93	m_e mb	4.7
RJOB	75.69		P	14:51:40.566	0.4	8.6		5.88		TAS		8.1	0.79	m_e mb	4.9
ROTZ	73.75		P	14:51:28.882	0.1	8.6		5.88		TAS		1.6	0.96	m_e mb	4.0
TANN	73.08		P	14:51:24.797	-0.1	8.6		5.88		TAS		4.5	0.97	m_e mb	4.6
WET	74.29		P	14:51:32.302	0.3	8.6		5.88		TAS		10.1	0.95	m_e mb	4.8

Event 81117004 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/17	16:30:52.26			-23.9250	-172.7890				33.0			19		149.94	155.63	m i ke	BGR
81117010																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	155.63		PKPbc	16:50:52.231	-0.3	8.4		2.19		TAS				m_e		
BRG	152.60		PKPbc	16:50:45.901	0.0	8.4		2.19		TAS				m_e		
BSEG	149.94		PKPbc	16:50:39.803	-0.2	8.4		2.19		TAS				m_e		
BUG	152.53		PKPbc	16:50:46.116	0.2	8.4		2.19		TAS				m_e		
CLL	152.30		PKPbc	16:50:45.132	-0.1	8.4		2.19		TAS				m_e		
CLZ	152.02		PKPbc	16:50:44.836	0.2	8.4		2.19		TAS				m_e		
FLT1	151.47		PKPbc	16:50:43.396	0.0	8.4		2.19		TAS				m_e		
GEC2	154.61		PKPbc	16:50:50.031	-0.3	8.4		2.19		TAS				m_e		
GTTG	152.34		PKPbc	16:50:45.515	0.2	8.4		2.19		TAS				m_e		
KAST	152.75		PKPbc	16:50:46.056	-0.2	8.4		2.19		TAS				m_e		
MANZ	153.71		PKPbc	16:50:48.380	0.1	8.4		2.19		TAS				m_e		
MOX	153.11		PKPbc	16:50:47.029	0.1	8.4		2.19		TAS				m_e		
NEUB	152.55		PKPbc	16:50:45.295	-0.4	8.4		2.19		TAS				m_e		
NRDL	151.39		PKPbc	16:50:43.132	-0.1	8.4		2.19		TAS				m_e		
ROTZ	153.91		PKPbc	16:50:48.944	0.2	8.4		2.19		TAS				m_e		
TANN	153.24		PKPbc	16:50:47.426	0.2	8.4		2.19		TAS				m_e		
TNS	153.73		PKPbc	16:50:48.721	0.3	8.4		2.19		TAS				m_e		
UBBA	153.07		PKPbc	16:50:46.756	-0.1	8.4		2.19		TAS				m_e		
WET	154.44		PKPbc	16:50:50.063	0.2	8.4		2.19		TAS				m_e		

Event 81117005 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/17	16:43:16.49			-16.8070	-179.4600				33.0			14		141.06	148.22	m i ke	BGR
81117011																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	147.92		PKPbc	17:02:57.712	-0.2	18.5		3.09		TAS				m_e		
FUR	147.51		PKPbc	17:02:56.609	0.1	18.5		3.09		TAS				m_e		
GEC2	146.29		PKPbc	17:02:52.883	-0.0	18.5		3.09		TAS				m_e		
GRA1	146.08		PKPbc	17:02:52.346	0.2	18.5		3.09		TAS				m_e		
MANZ	145.61		PKPbc	17:02:50.787	0.1	18.5		3.09		TAS				m_e		
RGN	141.06		PKPbc	17:02:36.434	-0.2	18.5		3.09		TAS				m_e		
RJOB	147.55		PKPbc	17:02:56.891	0.1	18.5		3.09		TAS				m_e		
ROTZ	145.79		PKPbc	17:02:51.167	-0.1	18.5		3.09		TAS				m_e		
STU	147.35		PKPbc	17:02:55.777	-0.3	18.5		3.09		TAS				m_e		
TANN	145.13		PKPbc	17:02:49.302	0.1	18.5		3.09		TAS				m_e		
TNS	146.06		PKPbc	17:02:52.259	0.1	18.5		3.09		TAS				m_e		
UBR	148.22		PKPbc	17:02:58.549	-0.2	18.5		3.09		TAS				m_e		
WET	146.22		PKPbc	17:02:52.599	-0.0	18.5		3.09		TAS				m_e		
WLF	146.91		PKPbc	17:02:55.337	0.2	18.5		3.09		TAS				m_e		

Event 81118001 Western Caucasus

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/18	05:16:30.10			43.9910	43.8290				33.0					22.90	22.90	m i	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	22.90		P	05:21:30.714		96.8		10.32		TAS					m_e

Event 81118003 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/18	12:48:45.44	0.72	0.84	44.1100	12.5920	11.1	7.8	177	10.0				24 283	2.77	6.74	m i ke	BGR

Magnitude Err Nsta Author OrigID
ML 4.3 BGR 81118009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	3.75		Pn	12:49:41.968	0.0					T__				m_e	
BALST	4.71		Pn	12:49:54.010	-0.8					T__				m_e	
BFO	5.15		Pn	12:50:00.333	-0.5					T__				m_e	
DAVA	3.70		Pn	12:49:42.531	1.3					T__				m_e	
FUR	4.16		Pn	12:49:47.727	0.3					T__				m_e	
GEC2	4.80		Pn	12:49:55.977	-0.1					T__				m_e	
GRA1	5.66		Pn	12:50:06.794	-0.9					T__				m_e	
KBA	3.02		Pn	12:49:32.824	0.8					T__				m_e ML	4.1
MANZ	5.89		Sn	12:51:12.478	-0.2					T__				m_e	
MANZ	5.89		Pn	12:50:09.673	-1.0					T__				m_e ML	4.1
MOA	3.92		Pn	12:49:45.214	1.0					T__				m_e ML	4.0
MOX	6.57		Sn	12:51:28.672	0.0					T__				m_e	
MOX	6.57		Pn	12:50:18.771	-1.1					T__				m_e ML	4.5
NORI	4.81		Pn	12:49:55.400	-0.8					T__				m_e	
OBER	3.67		Pn	12:49:41.892	1.1					T__				m_e ML	3.9
OBKA	2.77		Pn	12:49:28.453	-0.2					T__				m_e ML	4.5
PLONS	3.70		Sn	12:50:23.605	1.9					T__				m_e	
PLONS	3.70		Pn	12:49:42.318	1.0					T__				m_e ML	4.0
RJOB	3.63		Pn	12:49:41.271	1.0					T__				m_e ML	4.3
ROTZ	5.67		Pn	12:50:06.649	-1.1					T__				m_e	
SLE	4.64		Sn	12:50:41.926	-1.6					T__				m_e	

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SLE	4.64	Pn	12:49:53.204	-0.7	T__	m_e ML	5.0
SULZ	4.64	Pn	12:49:53.282	-0.6	T__	m_e	
TNS	6.74	Pn	12:50:22.103	-0.0	T__	m_e	
UBR	3.97	Pn	12:49:45.307	0.4	T__	m_e	
WET	5.04	Sn	12:50:52.811	-0.1	T__	m_e	
WET	5.04	Pn	12:49:58.952	-0.3	T__	m_e ML	4.4
WILA	4.19	Pn	12:49:48.043	0.2	T__	m_e	
WTTA	3.22	Pn	12:49:35.601	0.8	T__	m_e ML	4.6

Event 81118005 North Atlantic Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/18	16:03:37.29			9.2020	-48.9020				10.0				5	60.78	66.60	m i ke	BGR
OrigID 81118011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81118011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	65.89	P		16:14:23.523	0.3	252.4		6.59		TAS		1.6	0.84	m_e mb	4.3
BSEG	64.73	P		16:14:15.552	0.3	252.4		6.59		TAS		48.4	1.44	m_e mb	5.5
CLL	65.45	P		16:14:20.689		252.4		6.59		TAS		8.8	0.94	m_e mb	5.0
CLZ	64.05	P		16:14:11.130	0.3	252.4		6.59		TAS		3.7	0.89	m_e mb	4.6
FLT1	64.72	P		16:14:15.700	0.3	252.4		6.59		TAS		12.8	1.06	m_e mb	5.1
FUR	63.47	P		16:14:07.141	0.3	252.4		6.59		TAS		12.3	0.71	m_e mb	5.1
GEC2	65.20	P		16:14:18.587	0.3	252.4		6.59		TAS		5.0	1.10	m_e mb	4.7
GTTG	63.71	P		16:14:09.184		252.4		6.59		TAS		11.7	1.00	m_e mb	5.1
MOX	64.41	P		16:14:13.671	0.3	252.4		6.59		TAS		3.9	0.94	m_e mb	4.6
NRDL	64.12	P		16:14:11.701	0.2	252.4		6.59		TAS		10.2	0.94	m_e mb	5.0
RGN	66.60	P		16:14:27.828	0.3	252.4		6.59		TAS				m_e	
ROTZ	64.52	P		16:14:13.931	0.3	252.4		6.59		TAS				m_e	
TANN	64.86	P		16:14:16.604	0.3	252.4		6.59		TAS		4.4	1.01	m_e mb	4.6
UBBA	63.49	P		16:14:07.784	0.3	252.4		6.59		TAS				m_e	
UBR	62.57	P		16:14:01.335		252.4		6.59		TAS		4.4	0.90	m_e mb	4.6
WET	64.76	P		16:14:15.678	0.3	252.4		6.59		TAS		3.0	0.98	m_e mb	4.5
WLF	60.78	P		16:13:49.239	0.3	252.4		6.59		TAS		7.2	0.98	m_e mb	4.5

Event 81118006 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/18	20:25:49.12			-16.0100	-175.7530				510.0				26	141.86	148.05	m i ke	BGR
OrigID 81118012																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	147.59		PKPbc	20:44:34.690	-0.2	12.0		2.92		TAS					m_e	
BRG	144.36		PKPbc	20:44:25.609	0.2	12.0		2.92		TAS					m_e	
BSEG	141.86		PKPbc	20:44:17.632	-0.5	12.0		2.92		TAS					m_e	
BUG	144.57		PKPbc	20:44:26.310	0.1	12.0		2.92		TAS					m_e	
CLL	144.10		PKPbc	20:44:24.736	0.2	12.0		2.92		TAS					m_e	
CLZ	143.92		PKPbc	20:44:24.085	0.0	12.0		2.92		TAS					m_e	
FLT1	143.34		PKPbc	20:44:22.203	-0.1	12.0		2.92		TAS					m_e	
FUR	147.42		PKPbc	20:44:33.858	-0.4	12.0		2.92		TAS					m_e	
GEC2	146.35		PKPbc	20:44:30.750	-0.5	12.0		2.92		TAS					m_e	
GRA1	145.93		PKPbc	20:44:30.251	0.3	12.0		2.92		TAS					m_e	
GTTG	144.26		PKPbc	20:44:25.193	0.1	12.0		2.92		TAS					m_e	
IBBN	143.68		PKPbc	20:44:23.331	-0.2	12.0		2.92		TAS					m_e	
KAST	144.74		PKPbc	20:44:26.502	-0.1	12.0		2.92		TAS					m_e	
MANZ	145.52		PKPbc	20:44:29.196	0.5	12.0		2.92		TAS					m_e	
MOX	144.94		PKPbc	20:44:27.297	0.3	12.0		2.92		TAS					m_e	
NEUB	144.39		PKPbc	20:44:25.486	0.1	12.0		2.92		TAS					m_e	
NRDL	143.31		PKPbc	20:44:22.056	-0.2	12.0		2.92		TAS					m_e	
ROTZ	145.72		PKPbc	20:44:29.584	0.3	12.0		2.92		TAS					m_e	
RUE	142.84		PKPbc	20:44:20.662	-0.2	12.0		2.92		TAS					m_e	
STU	147.08		PKPbc	20:44:33.376	0.1	12.0		2.92		TAS					m_e	
TANN	145.05		PKPbc	20:44:27.667	0.3	12.0		2.92		TAS					m_e	
TNS	145.71		PKPbc	20:44:29.574	0.2	12.0		2.92		TAS					m_e	
UBBA	144.97		PKPbc	20:44:27.241	0.1	12.0		2.92		TAS					m_e	
UBR	148.05		PKPbc	20:44:35.523	-0.6	12.0		2.92		TAS					m_e	
WET	146.21		PKPbc	20:44:30.691	-0.1	12.0		2.92		TAS					m_e	
WLF	146.40		PKPbc	20:44:31.961	0.3	12.0		2.92		TAS					m_e	

Event 81119001 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/19	01:06:06.23			-10.1390	60.0190				10.0					73.25	73.25	m i ke	BGR
81119007																	

Magnitude Err Nsta Author OrigID
mb 4.2 BGR 81119007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	73.25		P	01:17:35.602		129.6		6.89		TAS		1.6	0.83	m_e mb	4.2

Event 81119002 Southern Greece

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/19	13:05:57.07	1.02	0.96	37.4820	21.8310	44.5	16.7	54	10.0			14	344	10.52	16.61	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.81		Pn	13:08:28.825	0.2					T__				m_e	
BFO	14.65		Pn	13:09:18.852	-1.3					T__				m_e	
DAVA	13.18		Pn	13:08:59.591	-0.8					T__				m_e	
GEC2	12.80		Pn	13:08:55.650	0.3					T__				m_e	
KBA	11.46		Sn	13:10:33.152	-1.1					T__				m_e	
KBA	11.46		Pn	13:08:37.278	-0.0					T__				m_e	
MOA	11.75		Pn	13:08:40.937	-0.3					T__				m_e	
MOX	15.05		Pn	13:09:26.195	0.8					T__				m_e	
OBKA	10.52		Sn	13:10:13.117	0.8					T__				m_e	
OBKA	10.52		Pn	13:08:24.281	-0.4					T__				m_e	
PLONS	13.27		Sn	13:11:16.673	0.4					T__				m_e	
PLONS	13.27		Pn	13:09:00.876	-0.7					T__				m_e	
RJOB	12.21		Pn	13:08:47.760	0.4					T__				m_e	
TNS	15.95		Pn	13:09:38.222	0.8					T__				m_e	
WET	13.34		Pn	13:09:01.692	-0.9					T__				m_e	
WLF	16.61		Pn	13:09:49.112	2.8					T__				m_e	
WTTA	12.33		Pn	13:08:48.149	-0.9					T__				m_e	

Event 81120001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/20	00:46:30.69			-16.8790	-179.8020				33.0					146.07	146.07	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.07		PKPbc	01:06:06.546		12.8		2.89		TAS				m_e	

Event 81120002 Unimak Island, Alaska, United States, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/20	05:42:32.73			54.9410	-163.8910				33.0				7	72.82	76.57	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	81120008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	74.54		P	05:54:06.247	0.2	357.1		5.75		TAS		5.7	0.92	m_e	mb 4.6
CLL	74.09		P	05:54:03.899	-0.2	357.1		5.75		TAS		5.2	0.86	m_e	mb 4.6
CLZ	73.48		P	05:54:00.183		357.1		5.75		TAS				m_e	
FLT1	73.02		P	05:53:57.202		357.1		5.75		TAS		4.7	0.80	m_e	mb 4.7
GEC2	76.57		P	05:54:18.316		357.1		5.75		TAS		2.7	0.75	m_e	mb 4.5
GTTG	73.76		P	05:54:01.709	-0.2	357.1		5.75		TAS		23.6	1.16	m_e	mb 5.1
KAST	74.03		P	05:54:03.382	-0.2	357.1		5.75		TAS		2.6	0.78	m_e	mb 4.3
MOX	74.72		P	05:54:07.327		357.1		5.75		TAS		3.2	0.67	m_e	mb 4.5
NRDL	72.82		P	05:53:56.578	0.2	357.1		5.75		TAS		7.5	0.87	m_e	mb 4.8
ROTZ	75.61		P	05:54:12.576	-0.2	357.1		5.75		TAS		0.5	0.82	m_e	mb 3.7
UBBA	74.49		P	05:54:05.656	-0.2	357.1		5.75		TAS				m_e	

Event 81120005 Kyushu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/20	19:09:37.02			31.0100	131.5600				140.2	1.5		27		80.75	86.19	m i ke	BGR
				81120011													

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	81120011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	86.11		P	19:22:14.942	0.5	48.4		5.16		TAS		29.0	1.08	m_e	mb 5.3
BRG	81.70		P	19:21:52.350	-0.3	48.4		5.16		TAS		14.8	0.95	a_e	mb 5.1
BSEG	81.37		P	19:21:50.549	-0.1	48.4		5.16		TAS		51.0	1.01	m_e	mb 5.5
BUG	84.43		P	19:22:06.500	-0.3	48.4		5.16		TAS		92.3	1.18	a_e	mb 5.9
CLL	81.87		P	19:21:53.150	-0.4	48.4		5.16		TAS		49.0	0.86	a_e	mb 5.7
CLZ	82.75		P	19:21:58.095	0.5	48.4		5.16		TAS		136.8	1.14	m_e	mb 6.1
FLT1	82.03		P	19:21:53.900	-0.5	48.4		5.16		TAS		48.3	0.91	m_e	mb 5.6
FUR	84.78		P	19:22:08.247	0.1	48.4		5.16		TAS		157.7	1.17	m_e	mb 6.1
FUR	84.78		pP	19:22:43.098	0.1					T__				m_e	
GEC2	83.12		P	19:21:59.750	-0.2	48.4		5.16		TAS		52.1	1.22	a_e	mb 5.6
GRA1	83.79		P	19:22:03.262	0.4	48.4		5.16		TAS		155.2	1.12	m_e	mb 6.1
GRA1	83.79		pP	19:22:38.612	0.1					T__				m_e	
GTTG	83.14		P	19:21:59.984	0.3	48.4		5.16		TAS		58.4	0.97	m_e	mb 5.8
IBBN	83.61		P	19:22:02.450	-0.1	48.4		5.16		TAS		75.7	0.93	a_e	mb 5.9
KAST	84.08		P	19:22:04.580	0.1	48.4		5.16		TAS		52.3	1.10	m_e	mb 5.7
MANZ	83.17		P	19:21:59.765	0.1	48.4		5.16		TAS		13.6	1.21	m_e	mb 5.0
MOX	82.97		P	19:21:59.300	0.1	48.4		5.16		TAS		51.3	1.19	a_e	mb 5.6
NEUB	82.53		P	19:21:56.496	-0.1	48.4		5.16		TAS		55.6	0.85	m_e	mb 5.8
NRDL	82.43		P	19:21:56.106	0.2	48.4		5.16		TAS		19.7	0.93	m_e	mb 5.2
RJOB	84.30		P	19:22:05.700	0.1	48.4		5.16		TAS		53.4	1.03	m_e	mb 5.7

RJOB	84.30	pP	19:22:40.860	0.1						T__				m_e	
ROTZ	83.26	P	19:22:01.050	0.3	48.4		5.16			TAS	18.3	1.12	a_e	mb	5.2
RUE	80.75	P	19:21:47.800	0.0	48.4		5.16			TAS	123.5	1.13	a_e	mb	5.8
STU	85.39	P	19:22:11.200	-0.5	48.4		5.16			TAS	186.0	1.18	a_e	mb	6.2
STU	85.39	pP	19:22:46.376	0.1						T__				m_e	
TANN	82.71	P	19:21:58.000	0.1	48.4		5.16			TAS	26.9	1.15	a_e	mb	5.4
TNS	84.74	P	19:22:08.350	-0.0	48.4		5.16			TAS	42.1	0.92	a_e	mb	5.7
TNS	84.74	pP	19:22:43.533	0.1						T__				m_e	
UBBA	83.61	P	19:22:02.550	0.0	48.4		5.16			TAS	19.7	0.86	a_e	mb	5.4
UBR	85.69	P	19:22:12.650	-0.6	48.4		5.16			TAS	32.2	1.29	a_e	mb	5.3
UBR	85.69	pP	19:22:48.125	0.1						T__				m_e	
WET	83.34	P	19:22:01.150	0.1	48.4		5.16			TAS	38.2	1.22	a_e	mb	5.5
WLF	86.19	P	19:22:15.700	-0.1	48.4		5.16			TAS	82.2	1.10	a_e	mb	5.8

Event 81120006 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/20	20:15:56.66			44.8500	147.7700				83.0	2.1		25		75.11	80.63	m i ke	BGR
	81120012																

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81120012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	80.63		P	20:28:06.403		30.7		5.52		TAS		5.6	0.78	m_e	mb	4.7
BRG	76.60		P	20:27:44.136	0.2	30.7		5.52		TAS		16.7	1.10	m_e	mb	5.1
BSEG	75.11		P	20:27:35.960	-0.0	30.7		5.52		TAS		31.0	0.85	m_e	mb	5.4
BSEG	75.11		pP	20:27:58.339	-0.3					T__						
BUG	78.19		P	20:27:53.365		30.7		5.52		TAS						
CLL	76.54		P	20:27:43.710	0.1	30.7		5.52		TAS		32.7	0.86	m_e	mb	5.5
CLZ	76.92		P	20:27:46.484	-0.5	30.7		5.52		TAS		19.9	0.79	m_e	mb	5.3
CLZ	76.92		pP	20:28:08.056	-0.3					T__						
FLT1	76.22		P	20:27:42.007	0.2	30.7		5.52		TAS		28.6	0.83	m_e	mb	5.4
FUR	79.82		P	20:28:02.000		30.7		5.52		TAS		15.3	0.69	m_e	mb	5.0
GEC2	78.41		P	20:27:54.357		30.7		5.52		TAS		6.6	0.62	m_e	mb	4.9
GRA1	78.52		P	20:27:55.148		30.7		5.52		TAS		92.3	1.36	m_e	mb	5.6
GTTG	77.30		P	20:27:48.245	-0.3	30.7		5.52		TAS		20.7	0.91	m_e	mb	5.3
IBBN	77.28		P	20:27:48.158	-0.5	30.7		5.52		TAS		29.1	0.88	m_e	mb	5.4
KAST	78.07		P	20:27:52.261		30.7		5.52		TAS		7.9	0.95	m_e	mb	4.8
MANZ	77.97		P	20:27:52.167		30.7		5.52		TAS		4.0	1.23	m_e	mb	4.4
MOX	77.56		P	20:27:49.855	-0.4	30.7		5.52		TAS		7.7	0.78	m_e	mb	4.9
MOX	77.56		pP	20:28:11.594	-0.3					T__						
NEUB	77.04		P	20:27:46.376		30.7		5.52		TAS		34.6	1.04	m_e	mb	5.4
NRDL	76.43		P	20:27:43.211	-0.5	30.7		5.52		TAS		7.6	0.78	m_e	mb	4.9
RJOB	79.68		P	20:28:01.171		30.7		5.52		TAS		9.2	0.77	m_e	mb	4.8
ROTZ	78.13		P	20:27:53.262		30.7		5.52		TAS		1.5	0.80	m_e	mb	4.2

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RUE	75.30	P	20:27:37.056	-0.5	30.7	5.52	TAS	29.4	0.84	m_e mb	5.3
TANN	77.49	P	20:27:49.916		30.7	5.52	TAS			m_e	
TNS	78.92	P	20:27:57.571		30.7	5.52	TAS	6.0	0.69	m_e mb	4.7
UBBA	77.92	P	20:27:51.486		30.7	5.52	TAS			m_e	
UBR	80.63	P	20:28:06.508		30.7	5.52	TAS	5.3	0.68	m_e mb	4.7
WET	78.44	P	20:27:54.783		30.7	5.52	TAS	7.9	0.75	m_e mb	4.9

Event 81121001 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/21	15:49:27.67			4.4180	95.8910			63.6		0.6		16		81.51	86.50	m i ke	BGR
81121007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81121007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.11		P	16:01:59.973		91.2		5.15		TAS		15.2	0.82	m_e mb	5.3
BRG	81.51		P	16:01:41.631	0.3	91.2		5.15		TAS		13.6	0.87	m_e mb	5.1
BSEG	83.85		P	16:01:53.472		91.2		5.15		TAS		29.2	0.89	m_e mb	5.5
BUG	85.72		P	16:02:03.292	-0.1	91.2		5.15		TAS		21.3	0.92	m_e mb	5.3
CLL	82.12		P	16:01:44.833	-0.2	91.2		5.15		TAS		11.8	0.89	m_e mb	5.0
CLZ	83.78		P	16:01:53.205	-0.1	91.2		5.15		TAS		23.3	0.93	m_e mb	5.4
FLT1	83.26		P	16:01:50.419	-0.2	91.2		5.15		TAS		6.9	0.89	m_e mb	4.9
FUR	83.14		P	16:01:49.776		91.2		5.15		TAS		22.0	0.75	m_e mb	5.5
GRA1	83.20		P	16:01:50.933		91.2		5.15		TAS		17.1	0.83	m_e mb	5.3
GRA1	83.20		pP	16:02:08.572						T__				m_e	
GTTG	84.03		P	16:01:55.122	0.1	91.2		5.15		TAS		14.4	0.86	m_e mb	5.2
IBBN	85.39		P	16:02:01.536		91.2		5.15		TAS		23.8	0.84	m_e mb	5.5
KAST	85.00		P	16:01:59.559	-0.1	91.2		5.15		TAS		7.3	0.93	m_e mb	4.9
MANZ	82.64		P	16:01:47.736		91.2		5.15		TAS		7.2	0.93	m_e mb	4.9
MOX	82.97		P	16:01:49.309	0.1	91.2		5.15		TAS		6.5	0.79	m_e mb	4.9
NEUB	82.89		P	16:01:48.875	0.6	91.2		5.15		TAS		24.9	0.99	m_e mb	5.4
NRDL	83.95		P	16:01:54.214		91.2		5.15		TAS		22.3	1.08	m_e mb	5.3
ROTZ	82.57		P	16:01:47.626		91.2		5.15		TAS		4.6	0.86	m_e mb	4.7
RUE	81.71		P	16:01:42.922	0.1	91.2		5.15		TAS		51.7	0.85	m_e mb	5.7
TANN	82.43		P	16:01:46.450	-0.4	91.2		5.15		TAS		8.5	1.00	m_e mb	4.8
TANN	82.43		pP	16:02:04.216						T__				m_e	
TNS	85.00		P	16:01:59.983	-0.4	91.2		5.15		TAS		16.8	0.84	m_e mb	5.3
UBBA	84.00		P	16:01:54.511	0.3	91.2		5.15		TAS				m_e	
UBR	83.92		P	16:01:53.873		91.2		5.15		TAS		14.8	0.84	m_e mb	5.2
WET	82.11		P	16:01:45.127		91.2		5.15		TAS		19.5	0.89	m_e mb	5.2
WLF	86.50		P	16:02:07.677		91.2		5.15		TAS		11.5	0.94	m_e mb	5.0
WLF	86.50		pP	16:02:25.168						T__				m_e	

Event 81121003 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/21	18:21:40.26			61.8300	-159.1060				151.4	3.1		9		65.70	70.50	m i ke	BGR
OrigID 81121009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81121009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	69.73		P	18:32:44.567		355.1		6.27		TAS		8.4	1.12	m_e mb	4.8
BFO	69.73		pP	18:33:21.210	-0.3					T__				m_e	
BRG	67.51		P	18:32:31.451		355.1		6.27		TAS		13.8	1.28	m_e mb	5.0
BUG	66.56		P	18:32:25.406		355.1		6.27		TAS				m_e	
CLL	67.04		P	18:32:28.021		355.1		6.27		TAS				m_e	
CLL	67.04		pP	18:33:04.402	-0.3					T__				m_e	
CLZ	66.37		P	18:32:23.548	-0.3	355.1		6.27		TAS		18.5	1.15	m_e mb	5.2
CLZ	66.37		pP	18:33:00.189	-0.3					T__				m_e	
FLT1	65.93		P	18:32:20.682	0.4	355.1		6.27		TAS		4.7	0.86	m_e mb	4.7
FUR	70.09		P	18:32:47.351		355.1		6.27		TAS		11.6	0.61	m_e mb	5.2
FUR	70.09		pP	18:33:23.303	-0.3					T__				m_e	
GRA1	68.56		P	18:32:37.911	-0.3	355.1		6.27		TAS		4.4	0.89	m_e mb	4.7
GTTG	66.64		P	18:32:25.776	0.4	355.1		6.27		TAS		13.7	0.96	m_e mb	5.2
GTTG	66.64		pP	18:33:01.896	-0.3					T__				m_e	
IBBN	65.73		P	18:32:19.263	-0.3	355.1		6.27		TAS		6.9	0.75	m_e mb	5.0
IBBN	65.73		pP	18:32:56.343	-0.3					T__				m_e	
KAST	66.88		P	18:32:27.400		355.1		6.27		TAS				m_e	
MANZ	68.31		P	18:32:36.344		355.1		6.27		TAS		0.9	1.05	m_e mb	3.9
MOX	67.63		P	18:32:31.701		355.1		6.27		TAS				m_e	
NEUB	67.09		P	18:32:28.580		355.1		6.27		TAS		10.0	0.80	m_e mb	5.1
NEUB	67.09		pP	18:33:04.951	-0.3					T__				m_e	
NRDL	65.70		P	18:32:19.257	-0.3	355.1		6.27		TAS		13.2	1.08	m_e mb	5.1
NRDL	65.70		pP	18:32:56.029	-0.3					T__				m_e	
ROTZ	68.54		P	18:32:37.783		355.1		6.27		TAS		0.8	0.93	m_e mb	3.9
RUE	65.90		P	18:32:20.701	-0.3	355.1		6.27		TAS				m_e	
TANN	67.90		P	18:32:34.077		355.1		6.27		TAS		4.5	1.08	m_e mb	4.6
TNS	67.86		P	18:32:33.384		355.1		6.27		TAS		4.8	0.94	m_e mb	4.7
TNS	67.86		pP	18:33:09.299	-0.3					T__				m_e	
UBBA	67.37		P	18:32:29.805		355.1		6.27		TAS				m_e	
UBR	70.50		P	18:32:50.179		355.1		6.27		TAS		3.5	0.95	m_e mb	4.5
UBR	70.50		pP	18:33:26.486	-0.3					T__				m_e	
WET	69.19		P	18:32:41.522		355.1		6.27		TAS				m_e	
WLF	68.23		P	18:32:36.344		355.1		6.27		TAS		14.8	1.01	m_e mb	5.2

Event 81121004 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/21	23:13:53.76			53.0400	-178.0200				195.4	8.0		17		74.62	79.18	m i ke	BGR
OrigID 81121010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	81121010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.86		P	23:25:53.909	-0.3	5.8		5.64		TAS		4.9	0.72	m_e	mb 4.6
BRG	75.97		P	23:25:37.995	0.1	5.8		5.64		TAS		6.6	0.81	m_e	mb 4.8
BRG	75.97		pP	23:26:25.536						T__				m_e	
CLL	75.61		P	23:25:36.016	0.1	5.8		5.64		TAS		6.7	0.72	m_e	mb 4.9
CLZ	75.25		P	23:25:33.914	0.0	5.8		5.64		TAS		9.5	0.70	m_e	mb 4.9
CLZ	75.25		pP	23:26:19.384						T__				m_e	
FLT1	74.72		P	23:25:30.551	-0.3	5.8		5.64		TAS		9.6	0.56	m_e	mb 5.0
FLT1	74.72		pP	23:26:16.835						T__				m_e	
GRA1	77.35		P	23:25:45.635	-0.0	5.8		5.64		TAS		15.5	0.72	m_e	mb 5.2
GTTG	75.57		P	23:25:35.639	-0.0	5.8		5.64		TAS		9.4	0.78	m_e	mb 5.0
IBBN	74.91		P	23:25:31.960	0.0	5.8		5.64		TAS		12.7	0.71	m_e	mb 5.1
MANZ	76.99		P	23:25:43.743	0.1	5.8		5.64		TAS		0.8	0.75	m_e	mb 3.9
MOX	76.37		P	23:25:40.256	0.1	5.8		5.64		TAS		6.2	0.76	m_e	mb 4.8
NRDL	74.62		P	23:25:30.131	-0.2	5.8		5.64		TAS		4.6	0.66	m_e	mb 4.7
RJOB	79.18		P	23:25:55.851	-0.1	5.8		5.64		TAS		4.4	0.73	m_e	mb 4.6
RJOB	79.18		pP	23:26:44.617						T__				m_e	
ROTZ	77.20		P	23:25:45.203	0.3	5.8		5.64		TAS		0.9	0.68	m_e	mb 4.0
TANN	76.54		P	23:25:41.116	-0.0	5.8		5.64		TAS		3.0	0.85	m_e	mb 4.5
TNS	76.97		P	23:25:43.696	0.2	5.8		5.64		TAS		8.7	0.73	m_e	mb 5.0
WET	77.77		P	23:25:47.979	-0.1	5.8		5.64		TAS		2.0	0.66	m_e	mb 4.4
WLF	77.61		P	23:25:47.289	0.2	5.8		5.64		TAS		6.1	0.78	m_e	mb 4.8

Event 81122001 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/22	01:07:20.100			-17.2400	-171.4100				47.1	1.4		20		145.00	149.62	m i ke	BGR
OrigID 81122007																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.99		PKPbc	01:27:06.254	0.2	4.1		3.22		TAS				m_e	
BRG	146.17		PKPbc	01:26:57.076	0.0	4.1		3.22		TAS				m_e	
BUG	145.86		PKPbc	01:26:55.867	-0.2	4.1		3.22		TAS				m_e	
CLL	145.83		PKPbc	01:26:55.778	-0.1	4.1		3.22		TAS				m_e	
CLL	145.83		pPKPbc	01:27:09.893	0.6					T__				m_e	

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CLZ	145.45	PKPbc	01:26:54.408	-0.2	4.1	3.22	TAS	m_e
FUR	149.08	PKPbc	01:27:06.300	0.0	4.1	3.22	TAS	m_e
GRA1	147.56	PKPbc	01:27:01.618	0.2	4.1	3.22	TAS	m_e
GTTG	145.75	PKPbc	01:26:55.294	-0.3	4.1	3.22	TAS	m_e
IBBN	145.00	PKPbc	01:26:53.213	-0.1	4.1	3.22	TAS	m_e
KAST	146.12	PKPbc	01:26:56.705	-0.1	4.1	3.22	TAS	m_e
MANZ	147.21	PKPbc	01:27:00.599	0.3	4.1	3.22	TAS	m_e
MANZ	147.21	pPKPbc	01:27:14.309	0.6			T__	m_e
MOX	146.59	PKPbc	01:26:58.467	0.2	4.1	3.22	TAS	m_e
MOX	146.59	pPKPbc	01:27:12.453	0.6			T__	m_e
RJOB	149.39	PKPbc	01:27:06.995	-0.4	4.1	3.22	TAS	m_e
ROTZ	147.42	PKPbc	01:27:01.155	0.2	4.1	3.22	TAS	m_e
ROTZ	147.42	pPKPbc	01:27:15.276	0.6			T__	m_e
TANN	146.76	PKPbc	01:26:58.725	-0.1	4.1	3.22	TAS	m_e
TANN	146.76	pPKPbc	01:27:12.834	0.6			T__	m_e
TNS	147.10	PKPbc	01:27:00.070	0.1	4.1	3.22	TAS	m_e
UBBA	146.48	PKPbc	01:26:58.096	0.2	4.1	3.22	TAS	m_e
UBBA	146.48	pPKPbc	01:27:12.407	0.6			T__	m_e
UBR	149.62	PKPbc	01:27:07.505	-0.5	4.1	3.22	TAS	m_e
UBR	149.62	pPKPbc	01:27:21.742	0.6			T__	m_e
WET	147.99	PKPbc	01:27:03.173	0.3	4.1	3.22	TAS	m_e
WLF	147.60	PKPbc	01:27:02.214	0.3	4.1	3.22	TAS	m_e
WLF	147.60	pPKPbc	01:27:16.599	0.6			T__	m_e

Event 81122002 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/22	02:11:59.46			28.9260	54.9950				10.0					39.01	39.01	m i ke	BGR
81122008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	81122008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	39.01		P	02:19:22.668		112.9		9.16		TAS		8.4	0.87	m_e mb	4.4

Event 81122005 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/22	22:12:50.64			-22.5500	-174.0900				568.2				25	148.49	154.70	m i ke	BGR
81122011																	

Magnitude	Err	Nsta	Author	OrigID

2018/11/23 14:30:16.27 36.9410 141.0930 60.0 20 80.03 85.26 m i ke BGR
81123008

Magnitude Err Nsta Author OrigID
mb 5.1 BGR 81123008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.26		P	14:42:44.800		38.2		5.18		TAS		34.9	1.00	m_e	mb 5.5
BRG	81.00		P	14:42:23.098	-0.1	38.2		5.18		TAS		17.9	1.08	m_e	mb 5.0
BSEG	80.03		P	14:42:17.881	0.1	38.2		5.18		TAS		16.4	0.95	m_e	mb 4.9
CLL	81.05		P	14:42:23.043	-0.2	38.2		5.18		TAS		25.6	0.88	m_e	mb 5.3
CLZ	81.66		P	14:42:26.706	0.2	38.2		5.18		TAS		28.4	1.11	m_e	mb 5.3
FLT1	80.95		P	14:42:22.210	0.3	38.2		5.18		TAS		21.1	0.96	m_e	mb 5.1
FUR	84.20		P	14:42:39.860		38.2		5.18		TAS		46.0	0.96	m_e	mb 5.7
GTTG	82.05		P	14:42:28.649	-0.4	38.2		5.18		TAS		18.7	1.02	m_e	mb 5.2
IBBN	82.26		P	14:42:29.426	-0.5	38.2		5.18		TAS		25.5	0.93	m_e	mb 5.3
MANZ	82.43		P	14:42:30.758	0.2	38.2		5.18		TAS		2.9	0.96	m_e	mb 4.4
MOX	82.12		P	14:42:28.871	0.0	38.2		5.18		TAS		8.5	0.88	m_e	mb 4.9
NEUB	81.63		P	14:42:26.207	-0.1	38.2		5.18		TAS		32.3	1.05	m_e	mb 5.4
NRDL	81.24		P	14:42:24.153	0.1	38.2		5.18		TAS		9.4	0.91	m_e	mb 4.8
PLN	82.02		P	14:42:28.427	0.1	38.2		5.18		TAS		6.7	0.91	m_e	mb 4.8
RETH	81.33		P	14:42:24.819	-0.0	38.2		5.18		TAS		19.9	1.04	m_e	mb 5.1
RJOB	83.90		P	14:42:38.583		38.2		5.18		TAS		21.3	0.93	m_e	mb 5.4
ROTZ	82.56		P	14:42:31.701	-0.1	38.2		5.18		TAS		12.1	1.55	m_e	mb 4.9
STU	84.56		P	14:42:41.470		38.2		5.18		TAS		76.5	0.98	m_e	mb 5.9
TANN	81.96		P	14:42:28.205	0.4	38.2		5.18		TAS		6.0	0.96	m_e	mb 4.7
WET	82.77		P	14:42:32.645	0.0	38.2		5.18		TAS		10.1	0.94	m_e	mb 5.0

Event 81124001 Venezuela

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/11/24 20:41:17.87 9.8600 -70.1680 24.0 18 73.70 78.72 m i ke BGR
81124007

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 81124007
Ms 5.3 BGR 81124007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	78.72		P	20:53:18.357	-0.0	269.9		5.63		TAS		9.3	1.23	m_e	mb 4.7
BRG	78.72		PcP	20:53:25.451	-0.2	269.9		5.63		TAS				m_e	
BSEG	76.50		P	20:53:05.785	-0.2	269.9		5.63		TAS		16.5	1.24	m_e	mb 5.0
BSEG	76.50		PcP	20:53:13.045	-0.0	269.9		5.63		TAS				m_e	
BUG	74.52		P	20:52:54.593	-0.3	269.9		5.63		TAS		16.5	1.22	m_e	mb 4.9
BUG	74.52		PcP	20:53:01.853	-0.2	269.9		5.63		TAS				m_e	
CLL	78.11		P	20:53:14.723	-0.0	269.9		5.63		TAS		28.5	1.60	m_e	mb 5.2

CLL	78.11	PcP	20:53:21.981	-0.2	269.9	5.63	TAS											m_e	
CLZ	76.47	P	20:53:06.053	0.1	269.9	5.63	TAS	22.0	1.59	m_e	mb								5.0
CLZ	76.47	PcP	20:53:13.132	0.1	269.9	5.63	TAS											m_e	
FLT1	77.01	P	20:53:08.482	0.2	269.9	5.63	TAS	25.6	1.48	m_e	mb								5.1
FLT1	77.01	PcP	20:53:15.647	-0.4	269.9	5.63	TAS											m_e	
GEC2	78.62	P	20:53:17.671		269.9	5.63	TAS	6.5	0.84	m_e	mb								4.7
GEC2	78.62	PcP	20:53:24.931	-0.1	269.9	5.63	TAS											m_e	
GRA1	76.99	L	01:25:24.586				T__	1372.2	20.60	a_e	Ms								5.2
GTTG	76.21	P	20:53:04.500	-0.3	269.9	5.63	TAS	11.3	0.99	m_e	mb								5.0
GTTG	76.21	PcP	20:53:11.657	0.1	269.9	5.63	TAS											m_e	
IBBN	74.88	PcP	20:53:03.935	-0.1	269.9	5.63	TAS											m_e	
MANZ	77.56	P	20:53:12.194	-0.0	269.9	5.63	TAS	4.8	1.14	m_e	mb								4.5
MANZ	77.56	PcP	20:53:19.291	0.2	269.9	5.63	TAS											m_e	
MOX	77.24	L	01:30:48.361				T__	1513.4	18.80	a_e	Ms								5.3
NEUB	77.34	P	20:53:10.650	-0.1	269.9	5.63	TAS	28.1	1.37	m_e	mb								5.2
NEUB	77.34	PcP	20:53:17.903	0.0	269.9	5.63	TAS											m_e	
NRDL	76.33	P	20:53:05.313	0.3	269.9	5.63	TAS	19.5	1.42	m_e	mb								5.0
NRDL	76.33	PcP	20:53:12.437	0.3	269.9	5.63	TAS											m_e	
PLN	77.59	P	20:53:12.024	0.2	269.9	5.63	TAS	11.7	1.18	m_e	mb								4.9
PLN	77.59	PcP	20:53:19.118	-0.1	269.9	5.63	TAS											m_e	
RETH	75.88	P	20:53:02.717	0.2	269.9	5.63	TAS	16.9	1.33	m_e	mb								5.0
RETH	75.88	PcP	20:53:09.921	0.3	269.9	5.63	TAS											m_e	
ROTZ	77.63	PcP	20:53:19.725	0.3	269.9	5.63	TAS											m_e	
STU	75.64	P	20:53:00.779		269.9	5.63	TAS	65.8	1.23	m_e	mb								5.6
STU	75.64	PcP	20:53:07.926	-0.3	269.9	5.63	TAS											m_e	
TANN	77.78	P	20:53:13.369	0.1	269.9	5.63	TAS	14.5	1.16	m_e	mb								5.0
TANN	77.78	PcP	20:53:20.506	0.2	269.9	5.63	TAS											m_e	
TNS	75.21	P	20:52:58.745	0.3	269.9	5.63	TAS	15.7	1.12	m_e	mb								5.0
TNS	75.21	PcP	20:53:05.931	0.1	269.9	5.63	TAS											m_e	
WET	78.07	P	20:53:14.688	-0.2	269.9	5.63	TAS	21.7	1.57	m_e	mb								5.0
WET	78.07	PcP	20:53:22.068	0.1	269.9	5.63	TAS											m_e	
WLF	73.70	P	20:52:50.060	-0.1	269.9	5.63	TAS	42.1	1.48	m_e	mb								5.2
WLF	73.70	PcP	20:52:57.342	0.0	269.9	5.63	TAS											m_e	

Event 81125001 Caribbean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/25	03:40:57.86			13.1200	-81.1600				10.0			22		78.40	83.41	m i ke	EMSC
	81125037																

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	81125007
Ms	6.1		BGR	81125007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	79.99		P	03:52:59.517	-0.5	280.3		5.38		TAS		159.8	2.02	m_e	mb	5.6

BRG	83.13	P	03:53:17.010	-0.0	280.3	5.38	TAS	47.9	1.03	m_e	mb	5.7
BSEG	80.38	P	03:53:02.334	0.1	280.3	5.38	TAS	37.4	1.03	m_e	mb	5.3
CLL	82.46	P	03:53:13.371	-0.1	280.3	5.38	TAS	36.9	0.98	m_e	mb	5.5
CLZ	80.75	P	03:53:04.448	0.2	280.3	5.38	TAS	44.7	0.99	m_e	mb	5.5
FLT1	81.20	P	03:53:06.209	-0.4	280.3	5.38	TAS	515.3	2.49	m_e	mb	6.1
GEC2	83.41	P	03:53:18.224	-0.2	280.3	5.38	TAS	49.7	1.02	m_e	mb	5.7
GOR1	81.12	P	03:53:06.209	-0.0	280.3	5.38	TAS	110.4	1.85	m_e	mb	5.6
GRA1	81.65	P	03:53:09.144	0.1	280.3	5.38	TAS	42.0	1.10	m_e	mb	5.5
GRA1	81.65	L	04:26:15.028				T__	9818.1	18.80	a_e	Ms	6.2
KAST	79.64	P	03:52:57.873	-0.4	280.3	5.38	TAS	182.1	2.27	m_e	mb	5.6
MANZ	82.16	P	03:53:11.844	0.1	280.3	5.38	TAS	7.9	1.10	m_e	mb	4.8
MOX	81.73	P	03:53:09.379	-0.1	280.3	5.38	TAS	21.1	0.98	m_e	mb	5.2
MOX	81.73	L	04:26:31.119				T__	5949.3	19.70	a_e	Ms	6.0
NEUB	81.72	P	03:53:09.496	0.0	280.3	5.38	TAS	599.3	2.46	m_e	mb	6.3
NRDL	80.49	P	03:53:03.039	0.2	280.3	5.38	TAS	554.6	2.50	m_e	mb	6.0
PLN	82.10	P	03:53:11.257	-0.2	280.3	5.38	TAS	38.5	0.92	m_e	mb	5.5
RETH	80.00	P	03:53:00.339	0.1	280.3	5.38	TAS	63.4	1.26	m_e	mb	5.4
ROTZ	82.26	P	03:53:12.431	0.1	280.3	5.38	TAS	63.7	2.39	m_e	mb	5.3
TANN	82.30	P	03:53:12.666	0.1	280.3	5.38	TAS	40.6	0.98	m_e	mb	5.5
TNS	79.80	P	03:52:59.282	0.2	280.3	5.38	TAS	105.0	1.48	m_e	mb	5.5
UBR	81.27	P	03:53:07.266	0.4	280.3	5.38	TAS	696.8	2.89	m_e	mb	6.2
WET	82.82	P	03:53:15.484	0.2	280.3	5.38	TAS	41.3	1.05	m_e	mb	5.6
WLF	78.40	P	03:52:51.533	0.0	280.3	5.38	TAS	95.2	1.15	m_e	mb	5.8

Event 81125003 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/25	06:14:32.30			-29.1100	-177.4600				44.0			13		155.92	159.81	m i ke	EMSC
81125035																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.3		BGR	81125009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	156.63		PKPab	06:34:49.403	0.0	21.0		4.54		TAS				m_e	
CLZ	156.55		PKPab	06:34:50.387	-0.8	21.0		4.54		TAS				m_e	
FLT1	155.92		PKPab	06:34:46.990	-0.4	21.0		4.54		TAS				m_e	
FUR	159.81		PKPab	06:35:04.558		21.0		4.54		TAS				m_e	
GRA1	158.41		PKPab	06:34:58.539		21.0		4.54		TAS				m_e	
GRA1	158.41		L	07:51:14.150						T__	422.6	21.00		a_e Ms	5.3
GTTG	156.91		PKPab	06:34:51.933	-0.3	21.0		4.54		TAS				m_e	
IBBN	156.50		PKPab	06:34:50.129	0.4	21.0		4.54		TAS				m_e	
NEUB	156.88		PKPab	06:34:50.832	-0.5	21.0		4.54		TAS				m_e	
NRDL	155.97		PKPab	06:34:47.435	0.5	21.0		4.54		TAS				m_e	
RJOB	159.77		PKPab	06:35:04.907		21.0		4.54		TAS				m_e	
STU	159.71		PKPab	06:35:03.667		21.0		4.54		TAS				m_e	

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TNS	158.44	PKPab	06:34:58.328	21.0	4.54	TAS	m_e
WET	158.49	PKPab	06:34:58.960	21.0	4.54	TAS	m_e

Event 81125002 Northern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/25	12:23:30.53			44.3580	82.3750				10.0			20		45.08	49.42	m i ke	BGR
OrigID 81125008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81125008
Ms	4.2		BGR	81125008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	49.42		P	12:32:18.343		67.8		7.82		TAS		11.0	0.92	m_e mb	4.9
BRG	45.08		P	12:31:44.546	-0.2	67.8		7.82		TAS		9.2	0.79	m_e mb	4.8
BSEG	46.17		P	12:31:53.763	0.9	67.8		7.82		TAS		22.8	0.95	m_e mb	5.2
BUG	48.79		P	12:32:13.883	-0.2	67.8		7.82		TAS		22.1	1.10	m_e mb	5.1
CLL	45.49		P	12:31:47.619	-0.5	67.8		7.82		TAS		34.1	0.81	m_e mb	5.3
FLT1	46.18		P	12:31:52.673	0.2	67.8		7.82		TAS		17.3	0.86	m_e mb	5.1
GEC2	45.94		P	12:31:51.385	0.2	67.8		7.82		TAS		8.3	0.94	m_e mb	4.8
GOR1	45.92		P	12:31:51.682	0.4	67.8		7.82		TAS		50.4	1.12	m_e mb	5.5
GRA1	47.13		P	12:32:01.593	-0.6	67.8		7.82		TAS		31.7	0.87	m_e mb	5.5
GRA1	47.13		L	12:52:29.233						T__		344.3	19.00	a_e Ms	4.3
GTTG	47.19		P	12:32:01.692	-0.7	67.8		7.82		TAS		47.7	0.90	m_e mb	5.6
IBBN	48.18		P	12:32:08.927	-0.8	67.8		7.82		TAS		24.6	0.73	m_e mb	5.4
KAST	48.22		P	12:32:09.324	-0.3	67.8		7.82		TAS		9.2	0.84	m_e mb	4.9
MOX	46.55		P	12:31:56.241	-0.1	67.8		7.82		TAS		20.0	0.92	m_e mb	5.2
MOX	46.55		L	12:51:17.522						T__		233.6	21.30	a_e Ms	4.1
NRDL	46.77		P	12:31:58.521	-0.1	67.8		7.82		TAS		32.4	0.94	m_e mb	5.4
PLN	46.28		P	12:31:54.259	0.5	67.8		7.82		TAS		12.3	0.96	m_e mb	4.9
RJOB	46.92		P	12:31:59.710		67.8		7.82		TAS		12.5	0.99	m_e mb	5.0
TANN	46.12		P	12:31:53.169	0.2	67.8		7.82		TAS				m_e	
TNS	48.58		P	12:32:12.297	-0.1	67.8		7.82		TAS		12.3	0.82	m_e mb	5.0
UBR	48.61		P	12:32:12.495		67.8		7.82		TAS		29.7	0.98	m_e mb	5.3
WET	46.33		P	12:31:54.854	0.9	67.8		7.82		TAS		13.8	0.91	m_e mb	5.0

Event 81125004 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/25	16:37:31.70			34.3300	45.7100				10.0			29		27.75	32.72	m i ke	EMSC
OrigID 81125036																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	81125010
MBB	6.3		BGR	81125010
Ms	6.0		BGR	81125010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	31.03		P	16:43:47.339	0.2	108.2		8.94		TAS		94.8	1.05	m_e	MBB	6.2
BRG	28.35		P	16:43:24.424	-0.6	108.2		8.94		TAS		190.4	1.30	m_e	MBB	6.1
BSEG	31.61		P	16:43:54.143	0.4	108.2		8.94		TAS		326.0	1.04	m_e	MBB	6.7
BUG	32.49		P	16:44:01.716	-0.2	108.2		8.94		TAS		353.9	1.29	m_e	MBB	6.5
CLL	29.06		P	16:43:30.626	-0.8	108.2		8.94		TAS		266.1	1.37	m_e	MBB	6.1
CLZ	30.78		P	16:43:46.675	-0.2	108.2		8.94		TAS		199.8	0.91	m_e	MBB	6.2
FLT1	30.47		P	16:43:43.287	-0.7	108.2		8.94		TAS		122.0	0.87	m_e	MBB	6.3
FUR	29.08		P	16:43:31.134	1.0	108.2		8.94		TAS		761.9	0.84	m_e	MBB	6.7
GEC2	27.75		P	16:43:19.091	-0.0	108.2		8.94		TAS		111.0	1.01	m_e	MBB	6.2
GOR1	30.69		P	16:43:46.120	0.3	108.2		8.94		TAS		871.6	1.11	m_e	MBB	6.9
GRA1	29.56		P	16:43:35.716	0.3	108.2		8.94		TAS		499.3	1.01	m_e	mb	6.3
GRA1	29.56		L	16:56:45.801						T__		26923.7	21.60	a_e	Ms	5.8
GTTG	30.92		P	16:43:47.930	-0.1	108.2		8.94		TAS		151.6	1.00	m_e	MBB	6.3
IBBN	32.46		P	16:44:01.910	0.1	108.2		8.94		TAS		487.1	1.21	m_e	MBB	6.8
KAST	31.73		P	16:43:54.459	-0.7	108.2		8.94		TAS		442.6	1.33	m_e	MBB	6.5
MANZ	29.11		P	16:43:31.314	-0.3	108.2		8.94		TAS		67.3	1.45	m_e	MBB	5.8
MOX	29.63		P	16:43:36.357	-0.1	108.2		8.94		TAS		128.2	1.07	m_e	MBB	6.2
MOX	29.63		L	16:58:32.990						T__		52562.6	19.40	a_e	Ms	6.2
NEUB	29.74		P	16:43:36.812	-0.7	108.2		8.94		TAS		146.2	0.82	m_e	MBB	6.0
NRDL	31.17		P	16:43:50.467	0.2	108.2		8.94		TAS		155.7	1.00	m_e	MBB	6.5
PLN	29.25		P	16:43:31.292	-1.8	108.2		8.94		TAS		132.7	1.46	m_e	MBB	6.0
RETH	31.68		P	16:43:55.301	0.5	108.2		8.94		TAS		365.7	1.10	m_e	MBB	6.8
RGN	30.30		P	16:43:43.290	2.1	108.2		8.94		TAS		551.4	0.80	m_e	MBB	6.8
RJOB	27.98		P	16:43:21.340	1.1	108.2		8.94		TAS		138.1	0.89	m_e	MBB	6.3
ROTZ	28.98		P	16:43:30.535	0.2	108.2		8.94		TAS		91.7	1.00	m_e	MBB	6.0
TANN	29.05		P	16:43:30.703	-0.5	108.2		8.94		TAS		174.0	1.13	m_e	MBB	6.1
TNS	31.43		P	16:43:52.108	0.0	108.2		8.94		TAS		348.0	1.34	m_e	MBB	6.5
UBBA	30.66		P	16:43:45.480	-0.1	108.2		8.94		TAS		1246.6	3.01	m_e	MBB	6.3
UBR	29.72		P	16:43:36.392	1.2	108.2		8.94		TAS		208.3	0.79	m_e	MBB	6.5
WET	28.36		P	16:43:24.191	-0.4	108.2		8.94		TAS		123.2	1.03	m_e	MBB	6.2
WLF	32.72		P	16:44:02.899	-0.2	108.2		8.94		TAS		338.6	0.99	m_e	MBB	6.3

Event 81126001 Taiwan region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/25	23:57:23.70			23.1470	118.6640				10.0			25		81.13	86.10	m i ke	BGR
				81126007													

Magnitude	Err	Nsta	Author	OrigID
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mb 5.2 BGR 81126007
 Ms 5.8 BGR 81126007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.55		P	00:10:00.603	-0.6	62.1		5.17		TAS		29.2	1.42	m_e	mb 5.3
BRG	81.13		P	00:09:38.053	-0.3	62.1		5.17		TAS		12.6	1.08	m_e	mb 4.9
BSEG	81.73		P	00:09:41.479	-0.0	62.1		5.17		TAS		24.4	1.10	m_e	mb 5.2
BUG	84.57		P	00:09:56.036	-0.1	62.1		5.17		TAS		36.6	1.26	m_e	mb 5.5
CLL	81.47		P	00:09:39.671	-0.5	62.1		5.17		TAS		21.0	1.03	m_e	mb 5.1
CLZ	82.69		P	00:09:46.712	0.3	62.1		5.17		TAS		66.5	1.61	m_e	mb 5.5
FLT1	81.99		P	00:09:42.145	-0.7	62.1		5.17		TAS		31.0	1.52	m_e	mb 5.2
FUR	83.91		P	00:09:53.086	0.4	62.1		5.17		TAS		108.2	1.69	m_e	mb 5.8
GEC2	82.16		P	00:09:43.572	-0.0	62.1		5.17		TAS		18.9	1.25	m_e	mb 5.1
GOR1	81.64		P	00:09:41.288	0.2	62.1		5.17		TAS		70.0	1.53	m_e	mb 5.5
GRA1	83.22		P	00:09:49.471	0.3	62.1		5.17		TAS		63.2	1.57	m_e	mb 5.6
GRA1	83.22		L	00:47:44.015						T__		2969.0	18.40	a_e	Ms 5.7
GTTG	83.05		P	00:09:48.519	0.2	62.1		5.17		TAS		15.5	1.02	m_e	mb 5.2
IBBN	83.87		P	00:09:52.420	-0.2	62.1		5.17		TAS		62.5	1.58	m_e	mb 5.6
KAST	84.07		P	00:09:53.657	0.1	62.1		5.17		TAS		76.5	2.16	m_e	mb 5.5
MANZ	82.58		P	00:09:46.046	0.2	62.1		5.17		TAS		2.4	1.13	m_e	mb 4.2
MOX	82.55		P	00:09:45.570	-0.2	62.1		5.17		TAS		24.3	1.49	m_e	mb 5.1
MOX	82.55		L	00:47:38.540						T__		4297.9	19.70	a_e	Ms 5.8
NEUB	82.21		P	00:09:44.714	0.7	62.1		5.17		TAS		60.3	1.39	m_e	mb 5.5
NRDL	82.52		P	00:09:45.855	0.2	62.1		5.17		TAS		27.2	1.48	m_e	mb 5.2
PLN	82.32		P	00:09:44.428	-0.1	62.1		5.17		TAS		7.1	0.98	m_e	mb 4.8
RETH	82.80		P	00:09:46.997	-0.1	62.1		5.17		TAS		167.1	2.99	m_e	mb 5.8
ROTZ	82.62		P	00:09:46.313	-0.1	62.1		5.17		TAS		3.5	1.03	m_e	mb 4.4
TANN	82.18		P	00:09:43.667	0.1	62.1		5.17		TAS		20.6	1.53	m_e	mb 5.0
TNS	84.54		P	00:09:56.131	-0.2	62.1		5.17		TAS		22.8	1.41	m_e	mb 5.2
UBR	84.83		P	00:09:57.178		62.1		5.17		TAS		26.5	1.13	m_e	mb 5.4
WLF	86.10		P	00:10:04.218		62.1		5.17		TAS		28.1	1.03	m_e	mb 5.3

Event 81126004 Eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/26	23:33:51.60			36.1000	139.7600				60.0			21		80.28	85.45	m i ke	EMSC
	81126036																

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	81126010
Ms	4.6		BGR	81126010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.45		P	23:46:22.546		39.6		5.18		TAS		11.0	0.72	m_e	mb 5.2
BRG	81.17		P	23:46:00.755	-0.1	39.6		5.18		TAS		17.7	1.16	m_e	mb 5.0
BSEG	80.28		P	23:45:56.041	0.1	39.6		5.18		TAS		41.5	1.27	m_e	mb 5.2

CLL	81.23	P	23:46:00.763	-0.4	39.6	5.18	TAS	27.7	0.97	m_e	mb	5.3
CLZ	81.88	P	23:46:04.648	0.3	39.6	5.18	TAS	28.1	1.21	m_e	mb	5.3
FLT1	81.16	P	23:46:00.072	-0.6	39.6	5.18	TAS	17.7	0.67	m_e	mb	5.2
FUR	84.36	P	23:46:17.422		39.6	5.18	TAS	22.6	0.75	m_e	mb	5.5
GEC2	82.79	P	23:46:08.952		39.6	5.18	TAS	9.8	1.07	m_e	mb	5.0
GOR1	80.63	P	23:45:58.159	0.3	39.6	5.18	TAS	31.9	1.22	m_e	mb	5.2
GRA1	83.20	P	23:46:11.889	0.0	39.6	5.18	TAS	23.1	0.78	m_e	mb	5.5
GRA1	83.20	L	00:51:16.231				T__	264.2	21.50	a_e	Ms	4.6
IBBN	82.52	P	23:46:07.449	-0.0	39.6	5.18	TAS	24.1	0.54	m_e	mb	5.7
MANZ	82.61	P	23:46:08.337	0.1	39.6	5.18	TAS	2.2	0.68	m_e	mb	4.5
MOX	82.31	P	23:46:06.561	0.1	39.6	5.18	TAS	6.0	0.72	m_e	mb	4.8
MOX	82.31	L	00:49:55.438				T__	329.5	21.30	a_e	Ms	4.7
NEUB	81.82	P	23:46:04.034	-0.1	39.6	5.18	TAS	26.3	0.89	m_e	mb	5.4
NRDL	81.48	P	23:46:02.053	-0.1	39.6	5.18	TAS	8.1	0.83	m_e	mb	4.8
PLN	82.20	P	23:46:06.151	0.1	39.6	5.18	TAS	4.0	0.69	m_e	mb	4.7
RETH	81.57	P	23:46:02.736	0.1	39.6	5.18	TAS	33.2	1.34	m_e	mb	5.3
RJOB	84.03	P	23:46:15.988		39.6	5.18	TAS	13.9	1.04	m_e	mb	5.1
ROTZ	82.73	P	23:46:09.293	-0.4	39.6	5.18	TAS	2.3	0.76	m_e	mb	4.5
TANN	82.13	P	23:46:05.878	0.3	39.6	5.18	TAS	23.0	1.63	m_e	mb	5.0
WET	82.92	P	23:46:10.113	0.2	39.6	5.18	TAS	18.0	1.36	m_e	mb	5.1

Event 81127001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/27	03:13:56.92			-21.6560	-178.9600				551.0			19		147.01	151.76	m i ke	BGR
	81127007																

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	149.13		PKPbc	03:32:43.127	-0.0	19.7		2.39		TAS				m_e	
BSEG	147.01		PKPbc	03:32:37.734	-0.1	19.7		2.39		TAS				m_e	
BUG	149.88		PKPbc	03:32:44.420	-0.1	19.7		2.39		TAS				m_e	
CLL	148.97		PKPbc	03:32:42.503	-0.0	19.7		2.39		TAS				m_e	
CLZ	149.01		PKPbc	03:32:42.994	0.2	19.7		2.39		TAS				m_e	
FLT1	148.38		PKPbc	03:32:40.899	0.4	19.7		2.39		TAS				m_e	
GOR1	147.74		PKPbc	03:32:39.740	0.1	19.7		2.39		TAS				m_e	
GTTG	149.37		PKPbc	03:32:43.662	-0.3	19.7		2.39		TAS				m_e	
KAST	149.95		PKPbc	03:32:44.866	0.1	19.7		2.39		TAS				m_e	
MANZ	150.41		PKPbc	03:32:46.114	-0.1	19.7		2.39		TAS				m_e	
MOX	149.90		PKPbc	03:32:44.777	0.0	19.7		2.39		TAS				m_e	
NEUB	149.35		PKPbc	03:32:43.529	-0.0	19.7		2.39		TAS				m_e	
NRDL	148.43		PKPbc	03:32:41.211	-0.0	19.7		2.39		TAS				m_e	
PLN	149.93		PKPbc	03:32:44.911	0.1	19.7		2.39		TAS				m_e	
RETH	148.32		PKPbc	03:32:41.032	0.1	19.7		2.39		TAS				m_e	
ROTZ	150.59		PKPbc	03:32:46.382	0.1	19.7		2.39		TAS				m_e	

TANN	149.92	PKPbc	03:32:45.000	-0.0	19.7	2.39	TAS	m_e
TNS	150.90	PKPbc	03:32:47.095	0.0	19.7	2.39	TAS	m_e
WLF	151.76	PKPbc	03:32:49.413		19.7	2.39	TAS	m_e

Event 81127002 North of Ascension Island

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/27	12:03:29.61			-1.0520	-13.0730				33.0			17		52.58	58.14	m i ke	BGR
81127008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81127008
Ms	5.3		BGR	81127008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	52.58		P	12:12:42.127		210.2		7.24		TAS		28.7	0.94	m_e mb	5.2
BSEG	58.14		P	12:13:21.764	-0.5	210.2		7.24		TAS		30.9	0.69	m_e mb	5.5
FLT1	56.99		P	12:13:13.885	-0.1	210.2		7.24		TAS		9.9	0.86	m_e mb	4.9
FUR	53.39		P	12:12:48.309		210.2		7.24		TAS		69.7	0.89	m_e mb	5.6
GEC2	54.83		P	12:12:59.036		210.2		7.24		TAS		78.1	1.37	m_e mb	5.5
GOR1	57.59		P	12:13:18.915	0.5	210.2		7.24		TAS		74.5	1.28	m_e mb	5.6
GRA1	54.69		L	12:35:37.911						T__		2682.6	20.50	a_e Ms	5.3
GTTG	55.92		P	12:13:06.976	-0.0	210.2		7.24		TAS		19.5	0.84	m_e mb	5.2
KAST	55.17		P	12:13:01.157	-0.2	210.2		7.24		TAS		76.5	1.87	m_e mb	5.4
MANZ	55.24		P	12:13:01.400	-0.2	210.2		7.24		TAS		3.8	0.80	m_e mb	4.5
MOX	55.64		P	12:13:04.369	0.6	210.2		7.24		TAS		18.4	0.95	m_e mb	5.1
MOX	55.64		L	12:36:25.486						T__		2785.5	19.80	a_e Ms	5.3
PLN	55.69		P	12:13:04.491	-0.2	210.2		7.24		TAS		68.0	1.78	m_e mb	5.4
RJOB	53.57		P	12:12:49.096		210.2		7.24		TAS		20.2	0.74	m_e mb	5.2
ROTZ	55.09		P	12:13:00.248		210.2		7.24		TAS		15.4	1.99	m_e mb	4.7
TANN	55.72		P	12:13:05.036	0.1	210.2		7.24		TAS		32.3	1.21	m_e mb	5.2
TNS	54.30		P	12:12:54.733	-0.2	210.2		7.24		TAS		17.2	0.81	m_e mb	5.1
UBR	52.58		P	12:12:42.127		210.2		7.24		TAS		77.5	0.80	m_e mb	5.7
WET	54.79		P	12:12:58.369		210.2		7.24		TAS		61.7	1.44	m_e mb	5.4

Event 81127004 North Atlantic Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/27	19:34:43.88			14.5650	-49.4020				33.0			22		57.92	62.06	m i ke	BGR
81127010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81127010

Ms 4.8 BGR 81127010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	57.92		P	19:44:33.107		256.7		6.86		TAS		68.5	1.41	m_e	mb 5.5
BRG	62.06		P	19:45:01.341	-0.1	256.7		6.86		TAS		48.4	1.43	m_e	mb 5.5
BSEG	60.64		P	19:44:51.468	0.1	256.7		6.86		TAS		135.2	1.71	m_e	mb 5.5
BUG	58.14		P	19:44:34.319	-0.2	256.7		6.86		TAS		99.9	1.64	m_e	mb 5.6
CLL	61.57		P	19:44:58.223	-0.0	256.7		6.86		TAS		40.5	1.18	m_e	mb 5.5
CLZ	60.11		P	19:44:48.003	-0.1	256.7		6.86		TAS		34.9	1.23	m_e	mb 5.2
FLT1	60.75		P	19:44:52.161	-0.3	256.7		6.86		TAS		60.2	1.34	m_e	mb 5.2
GEC2	61.51		P	19:44:57.796		256.7		6.86		TAS		51.8	1.35	m_e	mb 5.6
GOR1	60.96		P	19:44:53.719	-0.1	256.7		6.86		TAS		137.1	1.70	m_e	mb 5.5
GRA1	60.10		P	19:44:48.090	-0.1	256.7		6.86		TAS		36.3	1.34	m_e	mb 5.2
GRA1	60.10		L	20:07:10.193						T__		503.5	18.80	a_e	Ms 4.7
GTTG	59.78		P	19:44:46.011	0.1	256.7		6.86		TAS		36.7	1.21	m_e	mb 5.3
IBBN	58.69		P	19:44:38.130	-0.1	256.7		6.86		TAS		82.7	1.35	m_e	mb 5.6
MANZ	60.73		P	19:44:52.767	-0.0	256.7		6.86		TAS		28.3	2.05	m_e	mb 4.7
MOX	60.57		L	20:05:40.039						T__		986.1	20.10	a_e	Ms 5.0
NEUB	60.79		P	19:44:52.680	-0.3	256.7		6.86		TAS		61.6	1.49	m_e	mb 5.2
NRDL	60.12		P	19:44:48.523	0.4	256.7		6.86		TAS		90.3	1.51	m_e	mb 5.6
PLN	60.87		P	19:44:53.633	-0.1	256.7		6.86		TAS		83.4	1.89	m_e	mb 5.2
RETH	59.75		P	19:44:45.838	0.3	256.7		6.86		TAS		82.8	1.53	m_e	mb 5.5
ROTZ	60.74		P	19:44:52.507	-0.5	256.7		6.86		TAS		11.1	1.52	m_e	mb 4.5
STU	58.59		P	19:44:37.351		256.7		6.86		TAS		163.9	1.22	m_e	mb 5.9
UBBA	59.61		P	19:44:44.712	0.2	256.7		6.86		TAS		60.7	1.65	m_e	mb 5.4
UBR	58.92		P	19:44:40.642		256.7		6.86		TAS		65.9	1.33	m_e	mb 5.5
WET	61.04		P	19:44:54.586	0.7	256.7		6.86		TAS		33.1	1.24	m_e	mb 5.0

Event 81128001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/28	02:23:29.55			41.5750	143.7190				33.0			25		76.80	82.19	m i ke	BGR
81128007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	81128007
Ms	5.6		BGR	81128007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	82.19		P	02:35:45.303	0.2	34.1		5.42		TAS		109.7	1.47	m_e	mb 5.8
BRG	78.04		P	02:35:22.852	-0.3	34.1		5.42		TAS		38.7	1.26	m_e	mb 5.4
BSEG	76.80		P	02:35:16.462	0.1	34.1		5.42		TAS		81.9	1.09	m_e	mb 5.8
BUG	79.91		P	02:35:33.057	-0.1	34.1		5.42		TAS		85.6	1.16	m_e	mb 5.6
CLL	78.03		P	02:35:22.585	-0.5	34.1		5.42		TAS		66.9	1.04	m_e	mb 5.7
CLZ	78.52		P	02:35:26.135	0.4	34.1		5.42		TAS		146.6	1.38	m_e	mb 5.8
FLT1	77.82		P	02:35:21.432	-0.5	34.1		5.42		TAS		76.3	1.00	m_e	mb 5.8

FUR	81.25	P	02:35:40.777	-0.3	34.1	5.42	TAS	77.3	0.98	m_e	mb	5.7
GEC2	79.77	P	02:35:32.524	-0.3	34.1	5.42	TAS	27.3	1.12	m_e	mb	5.1
GOR1	77.25	P	02:35:19.125	0.3	34.1	5.42	TAS	122.8	1.32	m_e	mb	5.9
GRA1	80.01	P	02:35:34.299	0.4	34.1	5.42	TAS	83.2	1.00	m_e	mb	5.6
GRA1	80.01	L	03:13:51.581				T__	3045.3	20.10	a_e	Ms	5.6
GTTG	78.91	P	02:35:27.999	0.1	34.1	5.42	TAS	61.4	1.06	m_e	mb	5.6
IBBN	79.01	P	02:35:28.442	0.1	34.1	5.42	TAS	76.6	1.01	m_e	mb	5.7
KAST	79.73	P	02:35:32.347	0.1	34.1	5.42	TAS	34.8	1.05	m_e	mb	5.2
MANZ	79.44	P	02:35:30.881	0.1	34.1	5.42	TAS	6.2	1.03	m_e	mb	4.6
MOX	79.08	P	02:35:28.708	-0.1	34.1	5.42	TAS	56.2	1.31	m_e	mb	5.4
MOX	79.08	L	03:13:22.181				T__	3054.5	19.40	a_e	Ms	5.7
NEUB	78.57	P	02:35:25.603	-0.4	34.1	5.42	TAS	82.4	1.04	m_e	mb	5.7
NRDL	78.07	P	02:35:23.207	-0.1	34.1	5.42	TAS	38.8	1.12	m_e	mb	5.4
PLN	79.01	P	02:35:28.442	0.0	34.1	5.42	TAS	33.2	1.17	m_e	mb	5.2
RETH	78.12	P	02:35:23.650	0.1	34.1	5.42	TAS	128.5	1.44	m_e	mb	5.8
ROTZ	79.58	P	02:35:31.903	0.4	34.1	5.42	TAS	10.6	1.15	m_e	mb	4.7
TANN	78.96	P	02:35:28.176	0.0	34.1	5.42	TAS	25.0	1.26	m_e	mb	5.1
UBBA	79.51	P	02:35:30.749	-0.3	34.1	5.42	TAS	93.8	1.84	m_e	mb	5.4
UBR	82.09	P	02:35:44.859		34.1	5.42	TAS	35.7	1.42	m_e	mb	5.3
WET	79.84	P	02:35:33.323	-0.0	34.1	5.42	TAS	54.4	1.10	m_e	mb	5.4

Event 81128003 Myanmar

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/28	10:17:08.53			27.1800	97.0300				10.0			25		65.20	70.34	m i ke	EMSC
	81128039																

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	81128009
Ms	5.2		BGR	81128009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	69.40	P		10:28:14.078	-0.4	75.7		6.33		TAS		79.6	1.34	m_e	mb	5.8
BRG	65.20	P		10:27:47.809	-0.3	75.7		6.33		TAS		54.5	1.01	m_e	mb	5.7
BSEG	66.63	P		10:27:57.693	0.5	75.7		6.33		TAS		125.0	0.99	m_e	mb	6.1
BUG	69.10	P		10:28:12.742	-0.2	75.7		6.33		TAS		148.0	1.36	m_e	mb	6.0
CLL	65.68	P		10:27:50.570	-0.6	75.7		6.33		TAS		87.7	1.44	m_e	mb	5.8
CLZ	67.14	P		10:28:00.721	0.3	75.7		6.33		TAS		153.2	1.09	m_e	mb	6.2
FLT1	66.49	P		10:27:55.824	-0.6	75.7		6.33		TAS		125.8	1.32	m_e	mb	6.0
GEC2	65.83	P		10:27:52.084	0.2	75.7		6.33		TAS		167.1	1.48	m_e	mb	6.0
GOR1	66.29	P		10:27:55.200	0.1	75.7		6.33		TAS		231.0	1.32	m_e	mb	6.2
GRA1	67.18	P		10:28:01.077	0.5	75.7		6.33		TAS		152.2	1.40	m_e	mb	6.0
GRA1	67.18	L		11:00:24.114						T__		1915.0	20.40	a_e	Ms	5.3
KAST	68.49	P		10:28:08.913	-0.1	75.7		6.33		TAS		102.4	1.64	m_e	mb	5.8
MANZ	66.55	P		10:27:56.981	0.4	75.7		6.33		TAS		32.2	1.49	m_e	mb	5.3
MOX	66.69	P		10:27:57.426	-0.1	75.7		6.33		TAS		49.9	1.16	m_e	mb	5.6

MOX	66.69	L	10:59:33.102						T__	1031.3	21.40	a_e	Ms	5.0
NEUB	66.46	P	10:27:55.734	-0.4	75.7	6.33			TAS	154.4	1.37	m_e	mb	6.0
NRDL	67.12	P	10:28:00.810	0.4	75.7	6.33			TAS	199.8	1.19	m_e	mb	6.2
PLN	66.39	P	10:27:55.556	-0.1	75.7	6.33			TAS	107.0	1.52	m_e	mb	5.8
RETH	67.50	P	10:28:02.858	0.1	75.7	6.33			TAS	116.5	1.64	m_e	mb	5.8
RJOB	66.69	P	10:27:57.337	0.2	75.7	6.33			TAS	82.3	1.25	m_e	mb	5.8
ROTZ	66.55	P	10:27:57.070	0.5	75.7	6.33			TAS	51.9	1.37	m_e	mb	5.6
TANN	66.23	P	10:27:54.488	-0.1	75.7	6.33			TAS	109.1	1.49	m_e	mb	5.9
TNS	68.75	P	10:28:10.427	-0.2	75.7	6.33			TAS	67.5	1.21	m_e	mb	5.8
UBBA	67.63	P	10:28:03.303	-0.3	75.7	6.33			TAS	114.0	1.68	m_e	mb	5.8
UBR	68.46	P	10:28:08.112	-0.2	75.7	6.33			TAS	44.2	1.08	m_e	mb	5.6
WET	66.28	P	10:27:55.013	0.2	75.7	6.33			TAS	54.0	1.06	m_e	mb	5.7
WLF	70.34	P	10:28:21.023	0.4	75.7	6.33			TAS	297.9	1.27	m_e	mb	6.3

Event 81129002 Southwest of Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/29	20:21:50.66			-0.2900	95.5740				33.0			25		84.86	89.84	m i ke	BGR
81129008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	81129008
Ms	5.2		BGR	81129008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	84.93		P	20:34:22.862	-0.4	94.5		4.88		TAS		58.1	1.08	m_e	mb	5.7
BSEG	87.43		P	20:34:34.921	-0.2	94.5		4.88		TAS		129.4	1.10	m_e	mb	6.0
BUG	89.16		P	20:34:42.928	-0.1	94.5		4.88		TAS		90.0	0.96	m_e	mb	6.0
CLL	85.57		P	20:34:25.383	0.3	94.5		4.88		TAS		39.5	1.06	m_e	mb	5.5
CLZ	87.25		P	20:34:34.214	-0.3	94.5		4.88		TAS		72.9	1.21	m_e	mb	5.7
FLT1	86.76		P	20:34:30.422	0.2	94.5		4.88		TAS		44.7	1.28	m_e	mb	5.4
GEC2	84.86		P	20:34:22.352		94.5		4.88		TAS		130.0	1.25	m_e	mb	6.0
GOR1	86.77		P	20:34:31.558	0.2	94.5		4.88		TAS		141.6	1.42	m_e	mb	5.9
GRA1	86.56		P	20:34:30.920	-0.4	94.5		4.88		TAS		63.5	1.05	m_e	mb	5.7
GRA1	86.56		L	21:20:59.395						T__		928.4	19.10	a_e	Ms	5.2
GTTG	87.49		P	20:34:35.236	-0.3	94.5		4.88		TAS		94.9	1.26	m_e	mb	5.8
IBBN	88.89		P	20:34:42.254	0.3	94.5		4.88		TAS		121.5	0.89	m_e	mb	6.1
KAST	88.44		P	20:34:39.564	0.3	94.5		4.88		TAS		79.8	1.14	m_e	mb	6.0
MANZ	86.01		P	20:34:28.264	0.4	94.5		4.88		TAS		18.7	1.03	m_e	mb	5.2
MOX	86.38		P	20:34:29.390	0.1	94.5		4.88		TAS		31.8	1.08	m_e	mb	5.4
MOX	86.38		L	21:22:09.921						T__		1201.5	19.40	a_e	Ms	5.3
NEUB	86.33		P	20:34:29.685	-0.3	94.5		4.88		TAS		74.3	0.99	m_e	mb	5.8
NRDL	87.46		P	20:34:35.115	0.4	94.5		4.88		TAS		150.2	1.19	m_e	mb	6.0
PLN	86.02		P	20:34:27.499	0.4	94.5		4.88		TAS		27.7	0.96	m_e	mb	5.4
RETH	87.93		P	20:34:36.945	0.1	94.5		4.88		TAS		78.0	1.10	m_e	mb	6.0
RJOB	85.35		P	20:34:24.168		94.5		4.88		TAS		33.5	1.22	m_e	mb	5.4

ROTZ	85.92	P	20:34:27.769	-0.1	94.5	4.88	TAS	10.5	1.03	m_e	mb	4.9
RUE	85.22	P	20:34:24.124	-1.1	94.5	4.88	TAS	142.9	0.99	m_e	mb	6.2
TANN	85.82	P	20:34:26.896	0.3	94.5	4.88	TAS	33.3	1.16	m_e	mb	5.4
TNS	88.38	P	20:34:39.537	-0.0	94.5	4.88	TAS	88.4	1.26	m_e	mb	6.0
WET	85.43	P	20:34:24.961		94.5	4.88	TAS	51.8	1.07	m_e	mb	5.7
WLF	89.84	P	20:34:46.555	0.1	94.5	4.88	TAS	100.9	1.17	m_e	mb	5.9

Event 81130004 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/30	17:29:31.05			61.9150	-150.0980				33.0			31		62.95	69.61	m i ke	BGR
81130010																	

Magnitude	Err	Nsta	Author	OrigID
mb	7.6		BGR	81130010
Ms	6.6		BGR	81130010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	68.75	P		17:40:29.459	-0.2	350.6		6.33		TAS		5741.0	1.88	m_e	mb	7.5
BRG	66.84	P		17:40:17.680	0.1	350.6		6.33		TAS		5561.4	1.59	m_e	mb	7.5
BSEG	63.46	P		17:39:55.972	-0.3	350.6		6.33		TAS		9596.6	1.91	m_e	mb	7.6
BUG	65.57	P		17:40:09.341	-0.1	350.6		6.33		TAS		9185.3	1.83	m_e	mb	7.7
CLL	66.33	P		17:40:14.073	-0.3	350.6		6.33		TAS		5278.4	1.69	m_e	mb	7.5
CLZ	65.53	P		17:40:09.645	0.3	350.6		6.33		TAS		9078.2	1.70	m_e	mb	7.7
FLT1	65.14	P		17:40:06.211	-0.7	350.6		6.33		TAS		6090.1	1.81	m_e	mb	7.5
FUR	69.26	P		17:40:32.942	-0.0	350.6		6.33		TAS		4226.4	1.43	m_e	mb	7.5
GEC2	68.83	P		17:40:30.109	-0.1	350.6		6.33		TAS		8316.2	2.05	m_e	mb	7.6
GOR1	64.50	P		17:40:02.676	-0.1	350.6		6.33		TAS		8741.7	1.90	m_e	mb	7.7
GRA1	67.75	P		17:40:23.603	0.2	350.6		6.33		TAS		11906.8	2.05	m_e	mb	7.8
GRA1	67.75	L		18:11:17.527						T_		32788.0	21.20	a_e	Ms	6.5
GTTG	65.78	P		17:40:11.358	0.4	350.6		6.33		TAS		7603.5	1.52	m_e	mb	7.7
HLG	62.95	P		17:39:53.214	0.2	350.6		6.33		TAS		14611.1	1.86	m_e	mb	7.8
IBBN	64.78	P		17:40:04.543	0.0	350.6		6.33		TAS		11404.4	1.91	m_e	mb	7.8
KAST	65.94	P		17:40:11.952	0.0	350.6		6.33		TAS		5319.3	1.73	m_e	mb	7.5
MANZ	67.55	P		17:40:22.008	-0.1	350.6		6.33		TAS		1420.5	1.79	m_e	mb	6.9
MOX	66.85	P		17:40:17.892	0.2	350.6		6.33		TAS		4986.1	1.48	m_e	mb	7.5
MOX	66.85	L		18:12:16.793						T_		40636.0	20.30	a_e	Ms	6.6
NEUB	66.32	P		17:40:14.089	-0.3	350.6		6.33		TAS		9348.6	1.70	m_e	mb	7.7
NRDL	64.86	P		17:40:04.755	-0.4	350.6		6.33		TAS		6912.3	1.68	m_e	mb	7.6
PLN	67.06	P		17:40:19.008	-0.0	350.6		6.33		TAS		5405.5	1.69	m_e	mb	7.5
RETH	64.54	P		17:40:02.903	-0.2	350.6		6.33		TAS		5207.9	1.73	m_e	mb	7.5
RGN	63.15	P		17:39:54.699	0.5	350.6		6.33		TAS		13626.5	1.75	m_e	mb	7.8
ROTZ	67.77	P		17:40:23.688	0.1	350.6		6.33		TAS		1975.4	1.88	m_e	mb	7.0
RUE	65.24	P		17:40:07.556	0.1	350.6		6.33		TAS		6614.2	1.28	m_e	mb	7.7
STU	68.43	P		17:40:27.565	-0.1	350.6		6.33		TAS		14744.1	1.89	m_e	mb	7.9
TANN	67.16	P		17:40:19.771	0.1	350.6		6.33		TAS		7059.6	1.74	m_e	mb	7.6

TNS	66.91	P	17:40:18.104	0.1	350.6	6.33	TAS	6807.6	1.76	m_e	mb	7.6
UBBA	66.50	P	17:40:15.346	-0.2	350.6	6.33	TAS	5979.0	1.72	m_e	mb	7.5
UBR	69.61	P	17:40:35.043	-0.1	350.6	6.33	TAS	8983.2	1.96	m_e	mb	7.6
WET	68.46	P	17:40:28.116	0.3	350.6	6.33	TAS	7935.3	1.74	m_e	mb	7.7
WLF	67.16	P	17:40:19.891	0.4	350.6	6.33	TAS	9491.9	1.84	m_e	mb	7.7

Event 81130005 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/30	17:35:39.22			61.8940	-149.9070				33.0			22		62.94	69.61	m i ke	BGR
OrigID 81130011																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.3		BGR	81130011
Ms	6.6		BGR	81130011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	66.85	P		17:46:25.775	0.1	350.5		6.33		TAS		171.1	0.91	m_e	mb	6.3
BSEG	63.46	P		17:46:04.054	-0.3	350.5		6.33		TAS		203.2	0.93	m_e	mb	6.2
BUG	65.56	P		17:46:17.402	0.0	350.5		6.33		TAS		156.0	0.96	m_e	mb	6.2
CLL	66.33	P		17:46:22.200	-0.0	350.5		6.33		TAS		169.9	0.96	m_e	mb	6.2
CLZ	65.53	P		17:46:17.838	-0.1	350.5		6.33		TAS		254.6	0.99	m_e	mb	6.4
FLT1	65.14	P		17:46:14.213	0.5	350.5		6.33		TAS		113.3	0.92	m_e	mb	6.1
FUR	69.26	P		17:46:41.089		350.5		6.33		TAS		339.1	0.86	m_e	mb	6.6
GEC2	68.83	P		17:46:38.223		350.5		6.33		TAS		86.4	0.87	m_e	mb	6.0
GRA1	67.75	P		17:46:31.771		350.5		6.33		TAS		143.0	0.91	m_e	mb	6.2
GRA1	67.75	L		18:11:17.537						T__		32788.2	21.20	a_e	Ms	6.5
GTTG	65.78	P		17:46:19.480	-0.3	350.5		6.33		TAS		344.3	0.90	m_e	mb	6.6
HLG	62.94	P		17:46:01.796	0.8	350.5		6.33		TAS		712.7	1.23	m_e	mb	6.7
IBBN	64.77	P		17:46:12.007	0.4	350.5		6.33		TAS		214.4	1.12	m_e	mb	6.3
KAST	65.94	P		17:46:19.993	0.1	350.5		6.33		TAS		86.8	1.08	m_e	mb	5.9
MOX	66.85	P		17:46:25.852	0.1	350.5		6.33		TAS		235.3	0.93	m_e	mb	6.4
MOX	66.85	L		18:12:16.757						T__		40635.6	20.30	a_e	Ms	6.6
NEUB	66.32	P		17:46:22.431	0.1	350.5		6.33		TAS		253.9	0.91	m_e	mb	6.5
NRDL	64.86	P		17:46:12.956	-0.6	350.5		6.33		TAS		152.4	0.95	m_e	mb	6.2
PLN	67.06	P		17:46:27.184	0.3	350.5		6.33		TAS		154.4	0.90	m_e	mb	6.2
RGN	63.15	P		17:46:02.335	0.1	350.5		6.33		TAS		453.4	0.96	m_e	mb	6.6
ROTZ	67.78	P		17:46:31.771		350.5		6.33		TAS		37.7	0.89	m_e	mb	5.6
RUE	65.24	P		17:46:15.650	-0.8	350.5		6.33		TAS		487.9	0.92	m_e	mb	6.7
TANN	67.16	P		17:46:27.826	-0.1	350.5		6.33		TAS		129.7	1.00	m_e	mb	6.1
UBR	69.61	P		17:46:43.098		350.5		6.33		TAS		148.3	0.86	m_e	mb	6.1

Event 81130006 Central Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/30	19:26:36.82			62.8860	-150.2270				33.0				10	63.61	68.68	m i ke	BGR
OrigID 81130012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81130012
Ms	5.4		BGR	81130012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	65.90		P	19:37:17.663		350.9		6.40		TAS		11.0	0.71	m_e	mb 5.2
CLL	65.38		P	19:37:13.924		350.9		6.40		TAS		7.7	0.70	m_e	mb 5.0
CLZ	64.60		P	19:37:09.615	-0.2	350.9		6.40		TAS		22.7	0.88	m_e	mb 5.4
GEC2	67.89		P	19:37:30.358		350.9		6.40		TAS		6.0	0.74	m_e	mb 4.9
GRA1	66.81		L	20:07:42.721						T__		3472.8	21.00	a_e	Ms 5.5
MOX	65.91		P	19:37:17.722		350.9		6.40		TAS		15.5	0.80	m_e	mb 5.3
MOX	65.91		L	20:11:36.572						T__		2124.2	20.70	a_e	Ms 5.3
RETH	63.61		P	19:37:02.920	0.0	350.9		6.40		TAS			0.54	m_e	
ROTZ	66.83		P	19:37:23.768		350.9		6.40		TAS		2.7	0.80	m_e	mb 4.5
TANN	66.22		P	19:37:19.556		350.9		6.40		TAS		3.7	0.54	m_e	mb 4.8
UBR	68.68		P	19:37:35.250		350.9		6.40		TAS		15.6	0.84	m_e	mb 5.3
WET	67.52		P	19:37:28.204		350.9		6.40		TAS		5.3	0.67	m_e	mb 4.9

Event 81130007 Central Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/11/30	20:26:58.73			62.2360	-150.5480				33.0				29	63.19	69.57	m i ke	BGR
OrigID 81130013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	81130013
Ms	4.8		BGR	81130013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	68.50		P	20:37:55.459	-0.1	350.9		6.35		TAS		19.8	1.00	m_e	mb 5.3
BRG	66.57		P	20:37:43.386	-0.1	350.9		6.35		TAS		31.0	0.82	m_e	mb 5.6
BSEG	63.19		P	20:37:22.027	-0.2	350.9		6.35		TAS		18.4	0.77	m_e	mb 5.3
BUG	65.31		P	20:37:35.288	-0.2	350.9		6.35		TAS		33.5	0.86	m_e	mb 5.6
CLL	66.05		P	20:37:39.862	-0.1	350.9		6.35		TAS		22.1	0.74	m_e	mb 5.5
CLZ	65.27		P	20:37:35.593	-0.2	350.9		6.35		TAS		38.6	0.70	m_e	mb 5.7
FLT1	64.87		P	20:37:32.273	0.5	350.9		6.35		TAS		13.3	0.68	m_e	mb 5.3
FUR	69.00		P	20:37:58.915		350.9		6.35		TAS		53.8	0.82	m_e	mb 5.8
GEC2	68.56		P	20:37:56.127	-0.0	350.9		6.35		TAS		16.6	0.85	m_e	mb 5.3
GOR1	64.23		P	20:37:28.885	-0.1	350.9		6.35		TAS			0.49	m_e	
GRA1	67.48		P	20:37:49.586	0.0	350.9		6.35		TAS		21.1	0.83	m_e	mb 5.4
GRA1	67.48		L	20:57:12.795						T__		559.2	21.40	a_e	Ms 4.8

GTTG	65.52	P	20:37:37.321	-0.3	350.9	6.35	TAS	50.9	0.82	m_e	mb	5.8
IBBN	64.52	P	20:37:30.511	0.3	350.9	6.35	TAS	55.3	0.90	m_e	mb	5.8
KAST	65.68	P	20:37:37.618	-0.0	350.9	6.35	TAS	12.1	0.92	m_e	mb	5.1
MANZ	67.28	P	20:37:47.758	0.4	350.9	6.35	TAS	8.8	1.21	m_e	mb	4.9
MOX	66.58	P	20:37:43.487	0.1	350.9	6.35	TAS	35.3	0.65	m_e	mb	5.7
MOX	66.58	L	20:59:38.282				T__	704.8	19.60	a_e	Ms	4.9
NEUB	66.05	P	20:37:40.133	-0.0	350.9	6.35	TAS	33.7	0.64	m_e	mb	5.7
NRDL	64.59	P	20:37:30.952	0.1	350.9	6.35	TAS	32.6	1.02	m_e	mb	5.5
PLN	66.79	P	20:37:44.741	-0.0	350.9	6.35	TAS		0.72	m_e		
RETH	64.28	P	20:37:28.784	0.4	350.9	6.35	TAS		0.80	m_e		
RJOB	69.57	P	20:38:02.540		350.9	6.35	TAS	29.1	0.73	m_e	mb	5.5
ROTZ	67.50	P	20:37:49.586	0.3	350.9	6.35	TAS	5.6	0.78	m_e	mb	4.8
RUE	64.96	P	20:37:33.628	-0.5	350.9	6.35	TAS	57.0	0.61	m_e	mb	6.0
TANN	66.89	P	20:37:45.588	-0.3	350.9	6.35	TAS	53.8	1.27	m_e	mb	5.6
TNS	66.65	P	20:37:43.962	0.1	350.9	6.35	TAS	12.1	0.69	m_e	mb	5.2
UBBA	66.24	P	20:37:41.387	-0.2	350.9	6.35	TAS	11.6	0.80	m_e	mb	5.2
UBR	69.35	P	20:38:01.117		350.9	6.35	TAS	26.6	0.82	m_e	mb	5.5
WET	68.18	P	20:37:54.091	-0.2	350.9	6.35	TAS	41.6	1.17	m_e	mb	5.5
WLF	66.91	P	20:37:45.927	0.3	350.9	6.35	TAS	19.1	0.76	m_e	mb	5.4