

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

(produced by SZO/BGR - HANNOVER)

August 2018      UPDATED    02.October 2020

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

## Event 80801003 Northeastern India

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/01	15:45:55.24			26.3870	91.0270				33.0			14		62.03	67.17	m i ke	BGR
OrigID 80801009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	80801009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	62.03		P	15:56:11.472	-0.0	79.3		6.59		TAS		6.5	0.90	m_e mb	4.9
BSEG	63.76		P	15:56:22.851	-0.1	79.3		6.59		TAS		8.2	0.80	m_e mb	5.0
CLL	62.55		P	15:56:14.636	-0.4	79.3		6.59		TAS		9.6	1.27	m_e mb	4.8
CLZ	64.08		P	15:56:25.089	-0.2	79.3		6.59		TAS		7.4	0.80	m_e mb	5.0
FLT1	63.48		P	15:56:21.408	-0.2	79.3		6.59		TAS		6.8	0.87	m_e mb	4.8
GEC2	62.49		P	15:56:14.629	-0.1	79.3		6.59		TAS				m_e	
GRA1	63.95		P	15:56:24.532	-0.1	79.3		6.59		TAS		8.1	1.05	m_e mb	4.9
IBBN	65.58		P	15:56:35.146		79.3		6.59		TAS		9.4	1.03	m_e mb	5.0
KAST	65.41		P	15:56:33.942	-0.1	79.3		6.59		TAS		2.6	0.88	m_e mb	4.5
MANZ	63.33		P	15:56:21.256	1.0	79.3		6.59		TAS		1.1	0.95	m_e mb	3.9
MOX	63.53		P	15:56:22.306	-0.1	79.3		6.59		TAS		5.8	1.01	m_e mb	4.8
NEUB	63.33		P	15:56:20.446	0.2	79.3		6.59		TAS		5.5	0.70	m_e mb	4.8
NRDL	64.13		P	15:56:25.337		79.3		6.59		TAS		9.9	0.87	m_e mb	5.1
RJOB	63.28		P	15:56:19.636	-0.1	79.3		6.59		TAS				m_e	
ROTZ	63.30		P	15:56:20.190	0.8	79.3		6.59		TAS		2.3	1.02	m_e mb	4.2
TANN	63.03		P	15:56:18.133	-0.1	79.3		6.59		TAS		4.7	0.93	m_e mb	4.6
TNS	65.59		P	15:56:35.310		79.3		6.59		TAS		4.7	0.88	m_e mb	4.7
UBBA	64.50		P	15:56:28.023	-0.1	79.3		6.59		TAS				m_e	
WET	62.98		P	15:56:17.722	-0.3	79.3		6.59		TAS		5.5	1.07	m_e mb	4.6
WLF	67.17		P	15:56:45.507		79.3		6.59		TAS		9.8	1.01	m_e mb	5.0

Event 80801004 Northern East Pacific Rise

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/01	16:05:14.90			9.7600	-100.3500				33.0			24		92.58	97.99	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	80801010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	93.36		P	16:18:27.361	-0.1	292.6		4.48		TAS		38.1	0.87	m_e mb	5.8	
BFO	94.89		P	16:18:34.028	-0.1	292.6		4.48		TAS		8.3	0.87	m_e mb	5.2	
BRG	97.28		P	16:18:44.293		292.6		4.48		TAS		13.4	0.92	m_e mb	5.6	
BSEG	94.01		P	16:18:30.152	0.2	292.6		4.48		TAS		48.2	0.92	m_e mb	5.8	
BUG	93.18		P	16:18:26.161	-0.2	292.6		4.48		TAS		14.7	0.96	m_e mb	5.4	
CLL	96.56		P	16:18:41.036	-0.5	292.6		4.48		TAS		5.9	0.89	m_e mb	5.2	
CLZ	94.84		P	16:18:33.776	-0.0	292.6		4.48		TAS		9.8	0.70	m_e mb	5.3	
FLT1	95.14		P	16:18:34.870	-0.3	292.6		4.48		TAS		7.1	0.72	m_e mb	5.2	
GEC2	97.99		P	16:18:47.930	0.0	292.6		4.48		TAS		11.9	1.00	m_e mb	5.6	
GRA1	96.16		P	16:18:39.971	0.0	292.6		4.48		TAS		10.2	0.97	m_e mb	5.3	
GTTG	94.71		P	16:18:33.245	0.0	292.6		4.48		TAS		17.5	0.71	m_e mb	5.6	
HLG	92.58		P	16:18:23.660	0.2	292.6		4.48		TAS		70.2	0.86	m_e mb	6.1	
IBBN	93.16		P	16:18:26.297	-0.0	292.6		4.48		TAS		33.8	0.94	m_e mb	5.8	
KAST	93.93		P	16:18:29.353	0.4	292.6		4.48		TAS		20.8	1.04	m_e mb	5.4	
MANZ	96.57		P	16:18:41.449	0.1	292.6		4.48		TAS		1.1	0.92	m_e mb	4.5	
MOX	96.02		P	16:18:38.804	0.2	292.6		4.48		TAS		5.2	0.75	m_e mb	5.1	
NRDL	94.44		P	16:18:32.092	0.0	292.6		4.48		TAS		11.2	0.86	m_e mb	5.2	
RJOB	97.89		P	16:18:47.466	0.1	292.6		4.48		TAS		6.6	1.00	m_e mb	5.3	
ROTZ	96.72		P	16:18:42.294	0.2	292.6		4.48		TAS		0.6	0.84	m_e mb	4.3	
TANN	96.61		P	16:18:41.630	-0.5	292.6		4.48		TAS		7.1	0.87	m_e mb	5.3	
TNS	94.30		P	16:18:31.343	0.4	292.6		4.48		TAS		27.4	0.77	m_e mb	5.7	
UBBA	95.01		P	16:18:34.501	-0.3	292.6		4.48		TAS				m_e		
UBR	96.24		P	16:18:39.963		292.6		4.48		TAS		15.7	1.09	m_e mb	5.5	
WET	97.37		P	16:18:45.148	0.4	292.6		4.48		TAS		10.2	0.99	m_e mb	5.4	

Event 80802002 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/02	02:52:07.58			29.1170	70.5630				33.0			12				m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	80802008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG			P	03:00:36.624	-0.0	91.9		7.68		TAS				m_e	
BSEG			P	03:00:54.774	0.1	91.9		7.68		TAS		13.4	1.04	m_e mb	4.8
CLZ			P	03:00:53.966	-0.5	91.9		7.68		TAS		13.8	1.26	m_e mb	4.8
FLT1			P	03:00:49.842	-0.3	91.9		7.68		TAS		9.7	0.89	m_e mb	4.8
GEC2			P	03:00:36.400		91.9		7.68		TAS		8.8	1.54	m_e mb	4.7
GOR1			P	03:00:50.134	0.2	91.9		7.68		TAS		10.5	1.02	m_e mb	4.8
GRA1			P	03:00:49.503	-0.3	91.9		7.68		TAS		11.9	1.32	m_e mb	4.8
MANZ			P	03:00:45.541	0.1	91.9		7.68		TAS		3.7	1.40	m_e mb	4.3
MOX			P	03:00:48.167	0.5	91.9		7.68		TAS				m_e	
NEUB			P	03:00:47.521	-0.0	91.9		7.68		TAS				m_e	
NRDL			P	03:00:55.408	-0.0	91.9		7.68		TAS				m_e	
RETH			P	03:00:59.025	0.1	91.9		7.68		TAS		12.5	1.56	m_e mb	4.6
ROTZ			P	03:00:44.708	-0.0	91.9		7.68		TAS		1.1	0.99	m_e mb	3.9

Event 80802005 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/02	16:13:00.67			-20.4560	169.3610				33.0								m i ke BGR
OrigID 80802011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1			PKPbc	16:32:36.527		46.3		2.97		TAS				m_e	

Event 80803001 Qinghai, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/03	01:34:18.47			34.3700	92.4200				20.2	0.9		10		56.78	62.48	m i ke BGR	
OrigID 80803007																	

Magnitude Err Nsta Author OrigID

mb	5.4		BGR	80803007
Ms	4.8		BGR	80803007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	61.61		P	01:44:34.833	0.2	72.5		6.88		TAS		36.3	1.20	a_e mb	5.5
BFO	61.62		P	01:44:34.583	-0.2	72.5		6.88		TAS		48.2	1.18	a_e mb	5.6
BRG	57.35		P	01:44:05.478	-0.3	72.5		6.88		TAS		30.9	1.11	m_e mb	5.2
BRG	57.35		PcP	01:45:01.561	0.1	75.5		3.85		TAS				m_e	
BSEG	58.64		P	01:44:14.733	0.4	72.5		6.88		TAS		73.6	1.42	a_e mb	5.5

BUG	61.18	P	01:44:31.933	-0.4	72.5	6.88	TAS	100.5	1.59	a_e	mb	5.4
BUG	61.18	pP	01:44:37.650	-1.7			T__				m_e	
CLL	57.81	P	01:44:08.083	-0.8	72.5	6.88	TAS	44.1	1.33	a_e	mb	5.3
CLL	57.81	pP	01:44:13.583	-1.7			T__				m_e	
CLZ	59.22	P	01:44:18.533	0.3	72.5	6.88	TAS	76.5	1.25	a_e	mb	5.6
CLZ	59.22	pP	01:44:23.880	-1.7			T__				m_e	
CLZ	59.22	PcP	01:45:09.269		75.5	3.85	TAS				m_e	
FLT1	58.57	P	01:44:13.133	-0.9	72.5	6.88	TAS	54.2	1.40	a_e	mb	5.4
FLT1	58.57	pP	01:44:18.971	-1.7			T__				m_e	
FUR	59.82	P	01:44:23.083	0.7	72.5	6.88	TAS	81.9	1.11	a_e	mb	5.7
GEC2	58.08	P	01:44:11.075	0.5	72.5	6.88	TAS	35.7	1.17	m_e	mb	5.3
GOR1	58.34	P	01:44:12.583	0.2	72.5	6.88	TAS	112.7	1.54	a_e	mb	5.7
GRA1	59.37	P	01:44:19.933	0.0	72.5	6.88	TAS	71.8	1.18	a_e	mb	5.6
GRA1	59.37	L	02:11:10.412				T__	1121.0	18.10	a_e	Ms	5.0
GTTG	59.55	P	01:44:20.883	0.2	72.5	6.88	TAS	72.1	1.26	a_e	mb	5.6
HLG	59.94	P	01:44:23.733	-0.1	72.5	6.88	TAS	133.2	1.51	a_e	mb	5.7
IBBN	60.61	P	01:44:27.933	-0.1	72.5	6.88	TAS	94.6	1.57	a_e	mb	5.4
KAST	60.58	P	01:44:27.883	-0.1	72.5	6.88	TAS	34.0	1.50	a_e	mb	5.0
KAST	60.58	PcP	01:45:14.509		75.5	3.85	TAS				m_e	
MANZ	58.73	P	01:44:15.283	0.1	72.5	6.88	TAS	9.5	1.33	a_e	mb	4.7
MANZ	58.73	PcP	01:45:06.887		75.5	3.85	TAS				m_e	
MOX	58.84	P	01:44:15.733	-0.2	72.5	6.88	TAS	41.2	1.34	a_e	mb	5.3
MOX	58.84	PcP	01:45:07.147		75.5	3.85	TAS				m_e	
MOX	58.84	L	02:11:23.813				T__	487.7	20.40	a_e	Ms	4.6
NEUB	58.58	P	01:44:13.683	-0.5	72.5	6.88	TAS	71.3	1.21	a_e	mb	5.6
NEUB	58.58	PcP	01:45:06.541	0.2	75.5	3.85	TAS				m_e	
NRDL	59.18	P	01:44:18.583	-0.1	72.5	6.88	TAS	109.6	1.36	a_e	mb	5.7
NRDL	59.18	PcP	01:45:09.096		75.5	3.85	TAS				m_e	
PLN	58.55	P	01:44:13.733	-0.3	72.5	6.88	TAS	31.6	1.27	a_e	mb	5.2
RETH	59.54	P	01:44:20.833	-0.2	72.5	6.88	TAS	60.8	1.61	a_e	mb	5.4
RGN	56.78	P	01:44:01.613	0.2	72.5	6.88	TAS	96.0	1.24	m_e	mb	5.7
RJOB	58.99	P	01:44:17.083	0.4	72.5	6.88	TAS	51.2	1.58	a_e	mb	5.3
ROTZ	58.74	P	01:44:15.483	0.2	72.5	6.88	TAS	16.0	1.23	a_e	mb	4.9
ROTZ	58.74	PcP	01:45:07.017		75.5	3.85	TAS				m_e	
RUE	57.03	P	01:44:03.612	0.1	72.5	6.88	TAS	21.6	0.92	m_e	mb	5.2
STU	60.93	P	01:44:30.183	-0.1	72.5	6.88	TAS	165.0	1.38	a_e	mb	5.7
TANN	58.39	P	01:44:12.633	-0.2	72.5	6.88	TAS	31.6	1.20	m_e	mb	5.2
TANN	58.39	PcP	01:45:05.631	0.0	75.5	3.85	TAS				m_e	
TNS	60.89	P	01:44:29.933	-0.1	72.5	6.88	TAS	37.7	1.27	a_e	mb	5.1
UBBA	59.76	P	01:44:22.083	0.6	72.5	6.88	TAS	54.6	1.62	a_e	mb	5.3
UBBA	59.76	PcP	01:45:10.568		75.5	3.85	TAS				m_e	
UBR	60.73	P	01:44:28.633	-0.2	72.5	6.88	TAS	46.5	1.19	a_e	mb	5.2
WET	58.51	P	01:44:13.733	0.2	72.5	6.88	TAS	37.2	1.23	a_e	mb	5.3
WLF	62.48	P	01:44:41.233		72.5	6.88	TAS	125.0	1.32	a_e	mb	6.0

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/03	01:41:55.41			45.4150	148.7290				33.0			30		74.87	80.44	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	80803008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	78.81		P	01:53:53.291	-0.3	29.0		5.55		TAS		12.7	1.21	m_e	mb	4.8
ASSE	76.35		P	01:53:39.941	0.3	29.0		5.55		TAS		0.2	1.03	m_e	mb	3.3
BFO	80.42		P	01:54:01.748		29.0		5.55		TAS		8.4	1.29	m_e	mb	4.5
BRG	76.42		P	01:53:39.554	-0.4	29.0		5.55		TAS		8.0	1.14	m_e	mb	4.7
BSEG	74.87		P	01:53:30.999	0.2	29.0		5.55		TAS		11.0	1.16	m_e	mb	4.8
BUG	77.95		P	01:53:48.094	0.1	29.0		5.55		TAS		12.2	1.05	m_e	mb	5.0
CLL	76.35		P	01:53:38.889	-0.3	29.0		5.55		TAS		18.7	1.02	m_e	mb	5.2
CLZ	76.69		P	01:53:41.895	-0.2	29.0		5.55		TAS		21.4	1.18	m_e	mb	5.2
FLT1	76.01		P	01:53:37.011	0.5	29.0		5.55		TAS		14.5	1.01	m_e	mb	5.1
GEC2	78.25		P	01:53:50.066	0.3	29.0		5.55		TAS		9.2	1.20	m_e	mb	4.8
GOR1	75.41		P	01:53:34.850	0.1	29.0		5.55		TAS		25.4	1.32	m_e	mb	5.1
GRA1	78.32		P	01:53:50.818	-0.1	29.0		5.55		TAS		20.0	1.06	m_e	mb	5.2
GTTG	77.08		P	01:53:43.836	-0.6	29.0		5.55		TAS		10.8	0.88	m_e	mb	5.0
IBBN	77.04		P	01:53:43.116	0.5	29.0		5.55		TAS		18.4	1.20	m_e	mb	5.1
KAST	77.83		P	01:53:47.718	-0.3	29.0		5.55		TAS		11.2	1.14	m_e	mb	4.9
MANZ	77.78		P	01:53:47.530	0.4	29.0		5.55		TAS		2.7	1.18	m_e	mb	4.3
MOX	77.36		P	01:53:44.713	-0.0	29.0		5.55		TAS		10.5	1.13	m_e	mb	4.9
NEUB	76.83		P	01:53:41.895	-0.3	29.0		5.55		TAS		23.7	1.11	m_e	mb	5.2
NRDL	76.20		P	01:53:38.701	-0.1	29.0		5.55		TAS		16.7	1.39	m_e	mb	5.0
PLN	77.33		P	01:53:44.901	-0.2	29.0		5.55		TAS		6.7	1.02	m_e	mb	4.7
RETH	76.20		P	01:53:38.795	0.0	29.0		5.55		TAS		12.5	1.11	m_e	mb	5.0
RJOB	79.51		P	01:53:57.299		29.0		5.55		TAS		11.2	1.27	m_e	mb	4.6
ROTZ	77.94		P	01:53:48.564	0.4	29.0		5.55		TAS		2.6	1.07	m_e	mb	4.3
RUE	75.10		P	01:53:32.574	-0.6	29.0		5.55		TAS		13.0	0.60	m_e	mb	5.1
STU	79.76		P	01:53:58.352	-0.2	29.0		5.55		TAS		16.7	0.86	m_e	mb	5.0
TANN	77.29		P	01:53:44.441	0.1	29.0		5.55		TAS		5.4	1.33	m_e	mb	4.5
TNS	78.70		P	01:53:52.223	0.2	29.0		5.55		TAS		5.8	0.93	m_e	mb	4.6
UBBA	77.71		P	01:53:46.729	0.2	29.0		5.55		TAS		8.6	1.32	m_e	mb	4.7
UBR	80.44		P	01:54:02.019		29.0		5.55		TAS		12.6	1.57	m_e	mb	4.6
WET	78.26		P	01:53:50.536	-0.3	29.0		5.55		TAS		16.3	1.15	m_e	mb	5.1

Event 80803004 Tanimbar Islands, Indonesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/03	05:42:14.90			-6.2820	132.7260				28.0					114.26	114.83	m i ke	NEIC

Magnitude Err Nsta Author OrigID  
 Ms 4.5 BGR 80803010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	114.83		L	06:59:11.718						T__		106.8	21.80	a_e Ms	4.4
MOX	114.26		L	06:53:59.104						T__		138.9	21.80	a_e Ms	4.5

Event 80803008 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/03	18:50:59.33			-0.6770	-21.3780				33.0					57.44	58.34	m i ke	BGR

OrigID  
80803014

Magnitude Err Nsta Author OrigID  
 mb 4.8 BGR 80803014  
 Ms 5.0 BGR 80803014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	57.44		P	19:00:46.289		217.4		7.22		TAS		11.1	1.22	m_e mb	4.8
GRA1	57.44		L	19:24:10.445						T__		1137.0	20.20	a_e Ms	5.0
MOX	58.34		L	19:24:15.215						T__		1018.1	20.20	a_e Ms	4.9

Event 80804001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2018/08/03	23:46:54.88			-19.3200	-175.1480				33.0					23	145.19	149.71	m i ke	BGR

OrigID  
80804007

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABG1	147.84		PKPbc	00:06:35.711	-0.5	11.8		2.65		TAS				m_e	
BRG	147.70		PKPbc	00:06:35.310	0.2	11.8		2.65		TAS				m_e	
BSEG	145.19		PKPbc	00:06:28.196	-0.2	11.8		2.65		TAS				m_e	
CLL	147.44		PKPbc	00:06:34.482	-0.1	11.8		2.65		TAS				m_e	
CLZ	147.26		PKPbc	00:06:34.344	0.3	11.8		2.65		TAS				m_e	
FLT1	146.68		PKPbc	00:06:32.134	0.0	11.8		2.65		TAS				m_e	
GEC2	149.69		PKPbc	00:06:40.146		11.8		2.65		TAS				m_e	
GOR1	146.02		PKPbc	00:06:31.305	-0.4	11.8		2.65		TAS				m_e	
GRA1	149.27		PKPbc	00:06:39.801		11.8		2.65		TAS				m_e	
HWTS	148.36		PKPbc	00:06:36.963		11.8		2.65		TAS				m_e	
IBBN	147.00		PKPbc	00:06:33.860	0.4	11.8		2.65		TAS				m_e	
KASt	148.06		PKPbc	00:06:36.347		11.8		2.65		TAS				m_e	

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MANZ	148.86	PKPbc	00:06:38.281	11.8	2.65	TAS	m_e
MODW	147.87	PKPbc	00:06:36.121	11.8	2.65	TAS	m_e
MOX	148.29	PKPbc	00:06:36.416	11.8	2.65	TAS	m_e
PLN	148.36	PKPbc	00:06:36.900	11.8	2.65	TAS	m_e
RETH	146.46	PKPbc	00:06:31.870	0.3 11.8	2.65	TAS	m_e
ROTZ	149.06	PKPbc	00:06:39.041	11.8	2.65	TAS	m_e
SCHF	148.14	PKPbc	00:06:36.656	11.8	2.65	TAS	m_e
TANN	148.39	PKPbc	00:06:36.623	11.8	2.65	TAS	m_e
TNS	149.03	PKPbc	00:06:38.720	11.8	2.65	TAS	m_e
WET	149.55	PKPbc	00:06:40.353	11.8	2.65	TAS	m_e
WLF	149.71	PKPbc	00:06:40.837	11.8	2.65	TAS	m_e

Event 80804003 Xizang

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/04	04:04:15.63			34.8730	80.7220				33.0			29		49.78	54.92	m i ke	BGR
80804009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	80804009
Ms	5.1		BGR	80804009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	53.85		P	04:13:34.600		78.9		7.48		TAS		3.9	1.03	m_e mb	4.4
BRG	49.78		P	04:13:03.602	-0.7	78.9		7.48		TAS		7.5	0.89	m_e mb	4.6
BSEG	51.53		P	04:13:16.905	0.1	78.9		7.48		TAS		17.5	0.95	m_e mb	5.0
BUG	53.81		P	04:13:33.522		78.9		7.48		TAS		7.9	0.95	m_e mb	4.7
CLL	50.30		P	04:13:06.927	0.1	78.9		7.48		TAS		12.5	1.36	m_e mb	4.7
CLZ	51.84		P	04:13:19.095	0.1	78.9		7.48		TAS		23.5	1.29	m_e mb	5.0
FLT1	51.23		P	04:13:13.579	0.9	78.9		7.48		TAS		16.7	1.06	m_e mb	4.9
FUR	51.97		P	04:13:20.636	0.2	78.9		7.48		TAS		19.0	0.98	m_e mb	5.0
GEC2	50.26		P	04:13:07.414	-0.0	78.9		7.48		TAS		10.5	1.12	m_e mb	4.7
GOR1	51.09		P	04:13:13.508	-0.2	78.9		7.48		TAS		27.0	1.35	m_e mb	5.0
GRA1	51.70		P	04:13:18.691	0.5	78.9		7.48		TAS		16.0	1.22	m_e mb	4.8
GRA1	51.70		L	04:37:31.984						T__		2011.9	19.50	a_e Ms	5.2
GTTG	52.14		P	04:13:21.428	0.2	78.9		7.48		TAS		15.0	0.69	m_e mb	5.0
IBBN	53.33		P	04:13:29.931	-0.3	78.9		7.48		TAS		18.0	1.36	m_e mb	4.8
KAST	53.16		P	04:13:28.658	-0.2	78.9		7.48		TAS		2.2	0.90	m_e mb	4.1
MANZ	51.08		P	04:13:13.660	0.4	78.9		7.48		TAS		2.5	1.36	m_e mb	4.0
MOX	51.27		P	04:13:14.796	0.5	78.9		7.48		TAS		5.7	1.01	m_e mb	4.4
MOX	51.27		L	04:36:53.848						T__		1889.1	20.80	a_e Ms	5.1
NEUB	51.08		P	04:13:13.255	-0.8	78.9		7.48		TAS		12.3	0.92	m_e mb	4.8
NRDL	51.88		P	04:13:19.501	-0.2	78.9		7.48		TAS		22.7	1.07	m_e mb	5.0
PLN	50.96		P	04:13:12.362	-0.0	78.9		7.48		TAS		5.4	1.05	m_e mb	4.4
RETH	52.29		P	04:13:22.340	-0.0	78.9		7.48		TAS		7.9	1.33	m_e mb	4.5
RJOB	51.06		P	04:13:13.168	-0.2	78.9		7.48		TAS		4.8	0.87	m_e mb	4.4

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ROTZ	51.06	P	04:13:13.579	0.1	78.9	7.48	TAS	3.9	1.28	m_e mb	4.2
STU	53.19	P	04:13:29.305	0.3	78.9	7.48	TAS	27.6	0.75	m_e mb	5.3
TANN	50.78	P	04:13:11.386	0.2	78.9	7.48	TAS	6.5	1.07	m_e mb	4.5
TNS	53.34	P	04:13:30.016		78.9	7.48	TAS	5.5	0.85	m_e mb	4.5
UBBA	52.25	P	04:13:22.004	-0.3	78.9	7.48	TAS	22.5	1.82	m_e mb	4.8
UBR	52.85	P	04:13:26.835	-0.1	78.9	7.48	TAS	14.7	1.20	m_e mb	4.8
WET	50.74	P	04:13:10.983	-0.3	78.9	7.48	TAS	8.8	1.18	m_e mb	4.6
WLF	54.92	P	04:13:41.977		78.9	7.48	TAS	10.3	1.04	m_e mb	4.8

Event 80804004 Near coast of Guatemala

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/04	05:46:05.32			13.9050	-90.4570				33.0			16		84.90	88.72	m i ke	BGR
OrigID 80804010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	80804010
Ms	4.5		BGR	80804010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	87.48		P	05:58:48.314	-0.0	279.3		5.31		TAS		5.9	1.01	m_e mb	4.7
CLZ	85.75		P	05:58:40.356	0.3	279.3		5.31		TAS		5.0	0.82	m_e mb	4.7
FLT1	86.12		P	05:58:41.189	-0.1	279.3		5.31		TAS		7.9	1.15	m_e mb	4.7
GEC2	88.72		P	05:58:54.097		279.3		5.31		TAS		3.4	1.05	m_e mb	4.5
GRA1	86.91		P	05:58:46.604		279.3		5.31		TAS		15.1	1.27	m_e mb	5.0
GRA1	86.91		L	06:36:35.606						T__		211.8	18.50	a_e Ms	4.6
GTTG	85.59		P	05:58:39.896	-0.0	279.3		5.31		TAS		8.0	0.92	m_e mb	4.8
MANZ	87.36		P	05:58:48.194		279.3		5.31		TAS		1.1	1.07	m_e mb	3.9
MOX	86.86		P	05:58:45.242		279.3		5.31		TAS		6.4	1.28	m_e mb	4.6
MOX	86.86		L	06:39:36.991						T__		178.5	18.50	a_e Ms	4.5
NEUB	86.78		P	05:58:45.597	-0.4	279.3		5.31		TAS		9.3	1.11	m_e mb	4.8
NRDL	85.41		P	05:58:38.267	0.1	279.3		5.31		TAS		8.0	1.26	m_e mb	4.8
PLN	87.24		P	05:58:47.100		279.3		5.31		TAS		6.1	1.03	m_e mb	4.7
RETH	84.90		P	05:58:36.104	0.3	279.3		5.31		TAS		6.5	0.98	m_e mb	4.8
ROTZ	87.49		P	05:58:48.522		279.3		5.31		TAS		1.7	1.29	m_e mb	4.0
TANN	87.44		P	05:58:48.084		279.3		5.31		TAS		6.1	1.01	m_e mb	4.7
UBR	86.81		P	05:58:45.397		279.3		5.31		TAS		8.9	1.23	m_e mb	4.8
WET	88.11		P	05:58:51.473		279.3		5.31		TAS		5.7	1.02	m_e mb	4.8

Event 80804006 Honduras

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/04	10:27:17.21			14.2840	-88.6600				33.0			9		84.72	86.70	m i ke	BGR
OrigID																	



80804012

Magnitude Err Nsta Author OrigID  
 mb 4.6 BGR 80804012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BBWF	84.77		P	10:39:47.904		286.7		4.98		TAS		3.7	1.16	m_e	mb 4.5
CHRS	84.72		P	10:39:47.664	0.2	286.7		4.98		TAS		4.1	0.73	m_e	mb 4.7
CLL	86.11		P	10:39:54.413	0.1	286.7		4.98		TAS		3.2	0.86	m_e	mb 4.5
GRA1	85.50		P	10:39:51.580		286.7		4.98		TAS		5.2	0.56	m_e	mb 4.9
MOX	85.47		P	10:39:49.909		286.7		4.98		TAS		6.3	1.41	m_e	mb 4.6
MULD	86.02		P	10:39:53.992		286.7		4.98		TAS		2.7	0.83	m_e	mb 4.4
PLN	85.85		P	10:39:52.618		286.7		4.98		TAS		7.7	1.35	m_e	mb 4.7
TANN	86.06		P	10:39:53.765		286.7		4.98		TAS		8.0	1.41	m_e	mb 4.7
WERD	85.95		P	10:39:53.557		286.7		4.98		TAS		2.4	0.61	m_e	mb 4.5
WET	86.70		P	10:39:57.548		286.7		4.98		TAS		3.9	1.15	m_e	mb 4.4

Event 80805003 Eastern Siberia, Russia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2018/08/05 02:16:33.37 58.0600 152.8400 15.4 0.8 30 64.30 70.22 m i ke BGR  
 80805009

Magnitude Err Nsta Author OrigID  
 mb 5.2 BGR 80805009  
 Ms 3.7 BGR 80805009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	68.18		P	02:27:32.747	0.1	21.2		6.35		TAS		27.9	1.14	a_e	mb 5.4
BFO	70.00		P	02:27:43.647	-0.6	21.2		6.35		TAS		9.3	0.96	a_e	mb 4.9
BRG	66.33		P	02:27:20.597	-0.3	21.2		6.35		TAS		13.6	1.23	a_e	mb 5.0
BSEG	64.30		P	02:27:08.047	-0.0	21.2		6.35		TAS		13.5	0.93	a_e	mb 5.2
BUG	67.29		P	02:27:26.847	-0.1	21.2		6.35		TAS		26.7	0.98	a_e	mb 5.4
CLL	66.15		P	02:27:19.297	-0.5	21.2		6.35		TAS		27.1	1.02	a_e	mb 5.4
CLL	66.15		pP	02:27:23.709		21.2		6.35		TAS				m_e	
CLZ	66.25		P	02:27:20.847	0.4	21.2		6.35		TAS		33.1	1.16	a_e	mb 5.5
FLT1	65.60		P	02:27:15.697	-0.7	21.2		6.35		TAS		26.6	1.56	a_e	mb 5.2
FUR	69.49		P	02:27:40.797	-0.2	21.2		6.35		TAS		17.0	0.93	a_e	mb 5.3
FUR	69.49		pP	02:27:45.218		21.2		6.35		TAS				m_e	
GEC2	68.27		P	02:27:33.247	0.1	21.2		6.35		TAS		14.6	1.14	a_e	mb 5.1
GOR1	64.97		P	02:27:12.672	0.3	21.2		6.35		TAS		32.2	1.27	m_e	mb 5.4
GOR1	64.97		pP	02:27:16.797	-0.2	21.2		6.35		TAS				m_e	
GRA1	68.07		P	02:27:32.397	0.4	21.2		6.35		TAS		27.4	1.08	a_e	mb 5.4
GRA1	68.07		pP	02:27:36.748		21.2		6.35		TAS				m_e	
GRA1	68.07		L	02:56:53.373						T__		46.1	21.80	a_e	Ms 3.7
GTTG	66.62		P	02:27:22.897	0.1	21.2		6.35		TAS		12.5	1.13	a_e	mb 5.0

IBBN	66.37	P	02:27:20.997	-0.1	21.2	6.35	TAS	28.3	1.00	a_e	mb	5.5
KAST	67.27	P	02:27:27.097	0.2	21.2	6.35	TAS	22.3	1.13	a_e	mb	5.3
MANZ	67.59	P	02:27:28.947	0.0	21.2	6.35	TAS	2.2	1.09	a_e	mb	4.3
MANZ	67.59	pP	02:27:33.384		21.2	6.35	TAS			m_e		
MOX	67.09	P	02:27:25.797	0.0	21.2	6.35	TAS	16.2	1.17	a_e	mb	5.1
MOX	67.09	pP	02:27:30.153		21.2	6.35	TAS			m_e		
MOX	67.09	L	02:56:13.184				T__	60.7	21.70	a_e	Ms	3.8
NRDL	65.70	P	02:27:16.847	-0.1	21.2	6.35	TAS	18.3	1.02	a_e	mb	5.3
NRDL	65.70	pP	02:27:21.019	0.1	21.2	6.35	TAS			m_e		
PLN	67.11	P	02:27:25.997	0.1	21.2	6.35	TAS	17.7	1.04	a_e	mb	5.2
RETH	65.63	P	02:27:16.547	0.1	21.2	6.35	TAS	24.2	1.14	a_e	mb	5.3
RJOB	69.52	P	02:27:41.397	0.3	21.2	6.35	TAS	11.5	1.04	m_e	mb	4.9
ROTZ	67.77	P	02:27:30.297	0.2	21.2	6.35	TAS	3.1	1.07	a_e	mb	4.5
RUE	64.89	P	02:27:11.497	-0.3	21.2	6.35	TAS	18.2	0.91	a_e	mb	5.3
STU	69.40	P	02:27:40.047	-0.4	21.2	6.35	TAS	30.9	0.98	a_e	mb	5.5
TANN	67.11	P	02:27:26.047	0.2	21.2	6.35	TAS	14.8	1.26	m_e	mb	5.1
TNS	68.19	P	02:27:32.797	0.0	21.2	6.35	TAS	16.6	0.94	a_e	mb	5.2
UBBA	67.29	P	02:27:26.997	-0.1	21.2	6.35	TAS	28.8	1.70	a_e	mb	5.2
UBR	70.22	P	02:27:45.247	-0.4	21.2	6.35	TAS	9.6	0.92	a_e	mb	4.9
UBR	70.22	pP	02:27:49.699		21.2	6.35	TAS			m_e		
WET	68.19	P	02:27:33.147	0.5	21.2	6.35	TAS	17.5	1.06	a_e	mb	5.2
WLF	69.20	P	02:27:39.484	0.4	21.2	6.35	TAS	5.2	0.78	m_e	mb	4.8

Event 80805004 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/05	04:57:34.60			-29.8600	-177.1000				23.0			11		157.35	158.25	m i ke	EMSC
80805036																	

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	157.44		PKPab	05:18:12.714		20.7		4.11		TAS				m_e	
CLZ	157.35		PKPab	05:18:11.083	-0.5	20.7		4.11		TAS				m_e	
FBE	157.55		PKPab	05:18:12.922		20.7		4.11		TAS				m_e	
GTTG	157.71		PKPab	05:18:13.068		20.7		4.11		TAS				m_e	
MLFH	157.99		PKPab	05:18:14.170		20.7		4.11		TAS				m_e	
MOX	158.23		PKPab	05:18:14.795		20.7		4.11		TAS				m_e	
PLN	158.25		PKPab	05:18:15.697		20.7		4.11		TAS				m_e	
SCHF	158.01		PKPab	05:18:14.587		20.7		4.11		TAS				m_e	
TANN	158.24		PKPab	05:18:15.003		20.7		4.11		TAS				m_e	
WERD	158.25		PKPab	05:18:15.766		20.7		4.11		TAS				m_e	
WIMM	157.43		PKPab	05:18:11.404		20.7		4.11		TAS				m_e	

Event 80805006 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/05	08:44:17.23			42.0240	142.3210				33.0			15		76.93	82.36	m i ke	BGR
OrigID 80805012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	80805012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BALST	82.36		P	08:56:34.046		34.8		5.49		TAS		7.1	0.91	m_e	mb	4.8
BFO	81.29		P	08:56:29.264		34.8		5.49		TAS		3.6	0.85	m_e	mb	4.4
BRG	77.12		P	08:56:05.280	0.1	34.8		5.49		TAS		2.4	0.87	m_e	mb	4.3
CLL	77.12		P	08:56:05.377	-0.2	34.8		5.49		TAS		4.5	0.86	m_e	mb	4.6
CLZ	77.64		P	08:56:08.905	0.6	34.8		5.49		TAS		4.6	0.83	m_e	mb	4.6
FLT1	76.93		P	08:56:04.380	0.1	34.8		5.49		TAS				m_e		
GEC2	78.84		P	08:56:15.031		34.8		5.49		TAS		1.4	0.62	m_e	mb	4.1
GRA1	79.10		P	08:56:17.049		34.8		5.49		TAS		6.3	0.81	m_e	mb	4.7
IBBN	78.15		P	08:56:11.506		34.8		5.49		TAS		9.7	1.03	m_e	mb	4.9
MANZ	78.53		P	08:56:13.669		34.8		5.49		TAS		0.4	0.75	m_e	mb	3.5
PLONS	81.98		P	08:56:32.127		34.8		5.49		TAS		5.6	1.06	m_e	mb	4.6
RJOB	80.10		P	08:56:22.721		34.8		5.49		TAS		5.7	0.94	m_e	mb	4.5
ROTZ	78.67		P	08:56:14.446		34.8		5.49		TAS		0.7	0.96	m_e	mb	3.7
SULZ	82.05		P	08:56:32.385		34.8		5.49		TAS		10.6	1.00	m_e	mb	4.9
WET	78.92		P	08:56:15.871		34.8		5.49		TAS		3.0	0.82	m_e	mb	4.4

Event 80805007 Southern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/05	08:56:25.93			-2.8030	99.1400				30.3	0.4		30		89.08	94.06	m i ke	BGR
OrigID 80805013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	80805013
Ms	4.8		BGR	80805013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	93.46		P	09:09:38.672	0.2	93.4		4.64		TAS		4.7	0.97	a_e	mb	4.9
BFO	92.61		P	09:09:34.172	-0.4	93.4		4.64		TAS		12.3	1.38	a_e	mb	5.2
BFO	92.61		pP	09:09:43.065	-0.2	93.5		4.64		TAS				a_e		
BRG	89.12		P	09:09:18.422	0.1	93.4		4.64		TAS		46.5	1.68	a_e	mb	5.4
BRG	89.12		pP	09:09:27.315	0.2	93.5		4.64		TAS				a_e		
BSEG	91.55		P	09:09:29.522	-0.1	93.4		4.64		TAS		21.4	1.54	a_e	mb	5.2
BUG	93.34		P	09:09:37.772	-0.2	93.4		4.64		TAS		6.0	0.91	a_e	mb	5.0
CLL	89.75		P	09:09:20.972	-0.3	93.4		4.64		TAS		16.9	1.30	a_e	mb	5.1

CLL	89.75	pP	09:09:29.815	-0.2	93.5	4.64	TAS			a_e		
CLZ	91.42	P	09:09:29.122	0.1	93.4	4.64	TAS	13.8	1.05	a_e mb		5.2
CLZ	91.42	pP	09:09:38.015	-0.0	93.5	4.64	TAS			a_e		
FLT1	90.91	P	09:09:25.922	-0.8	93.4	4.64	TAS	6.4	0.87	a_e mb		5.0
FLT1	90.91	pP	09:09:34.765	0.1	93.5	4.64	TAS			a_e		
FUR	90.64	P	09:09:25.122	-0.3	93.4	4.64	TAS	12.2	1.02	a_e mb		5.2
FUR	90.64	pP	09:09:33.965		93.5	4.64	TAS			a_e		
GEC2	89.08	P	09:09:18.372	0.2	93.4	4.64	TAS	44.3	1.52	a_e mb		5.5
GEC2	89.08	pP	09:09:27.315	-0.3	93.5	4.64	TAS			a_e		
GOR1	90.91	P	09:09:26.522	-0.1	93.4	4.64	TAS	17.0	1.34	a_e mb		5.2
GOR1	90.91	pP	09:09:35.465	-0.0	93.5	4.64	TAS			a_e		
GRA1	90.77	P	09:09:26.522	0.5	93.4	4.64	TAS	33.5	1.28	a_e mb		5.5
GRA1	90.77	pP	09:09:35.365	-0.1	93.5	4.64	TAS			a_e		
GRA1	90.77	L	09:58:07.067				T__	398.0	18.90	a_e Ms		4.9
GTTG	91.66	P	09:09:30.172	0.0	93.4	4.64	TAS	17.7	1.04	a_e mb		5.3
GTTG	91.66	pP	09:09:39.015	-0.4	93.5	4.64	TAS			a_e		
KAST	92.62	P	09:09:34.622	0.0	93.4	4.64	TAS	11.7	1.14	a_e mb		5.2
KAST	92.62	pP	09:09:43.515	0.1	93.5	4.64	TAS			a_e		
MANZ	90.21	P	09:09:24.022	0.6	93.4	4.64	TAS	5.1	1.10	a_e mb		4.7
MANZ	90.21	pP	09:09:32.915	0.5	93.5	4.64	TAS			a_e		
MOX	90.57	P	09:09:25.272	0.2	93.4	4.64	TAS	21.8	1.42	m_e mb		5.3
MOX	90.57	pP	09:09:34.165	0.1	93.5	4.64	TAS			a_e		
MOX	90.57	L	09:59:12.843				T__	293.2	18.40	a_e Ms		4.8
NEUB	90.51	P	09:09:24.672	-0.1	93.4	4.64	TAS	14.4	0.68	a_e mb		5.4
NEUB	90.51	pP	09:09:33.515	0.1	93.5	4.64	TAS			a_e		
NRDL	91.61	P	09:09:30.222	0.3	93.4	4.64	TAS	17.1	1.31	a_e mb		5.2
NRDL	91.61	pP	09:09:39.115	-0.1	93.5	4.64	TAS			a_e		
PLN	90.22	P	09:09:23.522	0.1	93.4	4.64	TAS	12.8	1.29	a_e mb		5.0
PLN	90.22	pP	09:09:32.365	0.6	93.5	4.64	TAS			a_e		
RETH	92.08	P	09:09:32.119	0.0	93.4	4.64	TAS	9.7	1.27	m_e mb		5.0
RETH	92.08	pP	09:09:40.965	0.3	93.5	4.64	TAS			a_e		
RJOB	89.59	P	09:09:19.972	-0.6	93.4	4.64	TAS	9.5	1.22	a_e mb		4.9
RJOB	89.59	pP	09:09:28.865		93.5	4.64	TAS			a_e		
ROTZ	90.13	P	09:09:23.522	0.5	93.4	4.64	TAS	3.1	1.13	m_e mb		4.4
ROTZ	90.13	pP	09:09:32.415	0.2	93.5	4.64	TAS			a_e		
RUE	89.37	P	09:09:19.472	-0.1	93.4	4.64	TAS	89.9	1.31	a_e mb		5.8
RUE	89.37	pP	09:09:28.365	-0.8	93.5	4.64	TAS			a_e		
STU	92.05	P	09:09:31.872	-0.1	93.4	4.64	TAS	18.3	1.03	a_e mb		5.4
STU	92.05	pP	09:09:40.765	-0.5	93.5	4.64	TAS			a_e		
TANN	90.02	P	09:09:22.622	0.1	93.4	4.64	TAS	12.8	1.32	a_e mb		5.0
TANN	90.02	pP	09:09:31.515	0.5	93.5	4.64	TAS			a_e		
TNS	92.58	P	09:09:34.572	0.2	93.4	4.64	TAS	15.5	1.05	a_e mb		5.4
TNS	92.58	pP	09:09:43.465	0.2	93.5	4.64	TAS			m_e		
UBBA	91.61	P	09:09:29.922	0.0	93.4	4.64	TAS	5.8	1.13	a_e mb		4.8
UBBA	91.61	pP	09:09:38.915	0.0	93.5	4.64	TAS			a_e		
UBR	91.40	P	09:09:28.772	-0.2	93.4	4.64	TAS	9.3	1.00	a_e mb		5.1
UBR	91.40	pP	09:09:37.615		93.5	4.64	TAS			a_e		
WET	89.65	P	09:09:20.972	0.1	93.4	4.64	TAS	28.0	1.43	a_e mb		5.3
WET	89.65	pP	09:09:29.865	-0.4	93.5	4.64	TAS			a_e		

WLF	94.06	P	09:09:41.422	0.2	93.4	4.64	TAS	10.2	1.33	a_e	mb	5.0
WLF	94.06	pP	09:09:50.315	0.2	93.5	4.64	TAS			a_e		

Event 80805002 Sumbawa, Indonesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/05	11:46:37.30			-8.3200	116.4600				33.0			34		104.28	109.42	m i ke	EMSC
80805034																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.8		BGR	80805008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	108.68		SKSac	12:11:34.705	1.4	86.3		4.76		TAS				a_e	
AHRW	108.68		SS	12:20:46.996		94.6		14.23		TAS				m_e	
AHRW	108.68		Pdiff	12:00:56.382	0.2	83.6		4.53		TAS				a_e	
AHRW	108.68		PP	12:05:24.308		87.5		7.18		TAS				a_e	
ASSE	106.21		SKSac	12:11:20.055	-1.9	86.3		4.76		TAS				a_e	
BFO	108.21		SKSac	12:11:30.305	-0.3	86.3		4.76		TAS				a_e	
BFO	108.21		SS	12:20:40.689		94.6		14.23		TAS				m_e	
BFO	108.21		Pdiff	12:00:53.782	-0.3	83.6		4.53		TAS				a_e	
BFO	108.21		PP	12:05:19.708		87.5		7.18		TAS				a_e	
BRG	104.31		SKSac	12:11:12.205	-0.3	86.3		4.76		TAS				a_e	
BRG	104.31		Pdiff	12:00:36.632	0.2	83.6		4.53		TAS				a_e	
BRG	104.31		PP	12:04:53.108	0.2	87.5		7.18		TAS				a_e	
BSEG	106.18		SKSac	12:11:23.005	0.7	86.3		4.76		TAS				a_e	
BSEG	106.18		Pdiff	12:00:45.132	0.1	83.6		4.53		TAS				a_e	
BSEG	106.18		PP	12:05:08.308		87.5		7.18		TAS				a_e	
BUG	108.40		SKSac	12:11:31.855	-0.4	86.3		4.76		TAS				a_e	
BUG	108.40		SS	12:20:43.283		94.6		14.23		TAS				m_e	
BUG	108.40		Pdiff	12:00:54.832	-0.1	83.6		4.53		TAS				a_e	
BUG	108.40		PP	12:05:22.658		87.5		7.18		TAS				a_e	
CLL	104.86		SKSac	12:11:13.055	-2.2	86.3		4.76		TAS				a_e	
CLL	104.86		Pdiff	12:00:38.782	-0.1	83.6		4.53		TAS				m_e	
CLL	104.86		PP	12:04:56.758	0.2	87.5		7.18		TAS				a_e	
CLZ	106.43		SKSac	12:11:24.205	1.3	86.3		4.76		TAS				a_e	
CLZ	106.43		Pdiff	12:00:46.232	0.2	83.6		4.53		TAS				a_e	
CLZ	106.43		PP	12:05:09.903		87.5		7.18		TAS				m_e	
FLT1	105.84		SKSac	12:11:20.105	-0.1	86.3		4.76		TAS				a_e	
FLT1	105.84		Pdiff	12:00:42.682	-1.5	83.6		4.53		TAS				a_e	
FUR	106.28		SKSac	12:11:20.355	-1.0	86.3		4.76		TAS				a_e	
FUR	106.28		SS	12:20:06.552		94.6		14.23		TAS				m_e	
FUR	106.28		Pdiff	12:00:45.082	-0.3	83.6		4.53		TAS				a_e	
FUR	106.28		PP	12:05:05.158		87.5		7.18		TAS				a_e	
GEC2	104.61		SKSac	12:11:14.355	0.8	86.3		4.76		TAS				a_e	
GEC2	104.61		SS	12:19:46.415	0.5	94.6		14.23		TAS				m_e	

GEC2	104.61	Pdiff	12:00:37.882	0.1	83.6	4.53	TAS		a_e
GEC2	104.61	PP	12:04:53.058	0.8	87.5	7.18	TAS		a_e
GOR1	105.72	Pdiff	12:00:42.582	-0.3	83.6	4.53	TAS		a_e
GOR1	105.72	PP	12:05:03.858	-0.3	87.5	7.18	TAS		a_e
GRA1	106.16	SKSac	12:11:22.405	1.3	86.3	4.76	TAS		a_e
GRA1	106.16	SS	12:20:09.847		94.6	14.23	TAS		m_e
GRA1	106.16	Pdiff	12:00:45.082	0.3	83.6	4.53	TAS		a_e
GRA1	106.16	PP	12:05:06.258		87.5	7.18	TAS		a_e
GRA1	106.16	L	12:55:12.046				T__	31440.1 19.60	a_e Ms 6.9
GTTG	106.72	SKSac	12:11:25.305	1.1	86.3	4.76	TAS		a_e
GTTG	106.72	Pdiff	12:00:47.232	-0.1	83.6	4.53	TAS		a_e
GTTG	106.72	PP	12:05:10.508		87.5	7.18	TAS		a_e
HLG	107.55	SKSac	12:11:27.955	-1.1	86.3	4.76	TAS		a_e
HLG	107.55	Pdiff	12:00:51.382	0.1	83.6	4.53	TAS		a_e
HLG	107.55	PP	12:05:18.758		87.5	7.18	TAS		a_e
IBBN	107.96	SKSac	12:11:30.005	-0.4	86.3	4.76	TAS		a_e
IBBN	107.96	Pdiff	12:00:52.732	-0.2	83.6	4.53	TAS		a_e
IBBN	107.96	PP	12:05:19.858		87.5	7.18	TAS		a_e
KAST	107.73	SKSac	12:11:29.305	0.3	86.3	4.76	TAS		a_e
KAST	107.73	Pdiff	12:00:52.182	0.3	83.6	4.53	TAS		a_e
KAST	107.73	PP	12:05:17.908		87.5	7.18	TAS		a_e
MANZ	105.55	SKSac	12:11:19.655	1.4	86.3	4.76	TAS		a_e
MANZ	105.55	Pdiff	12:00:42.432	0.4	83.6	4.53	TAS		a_e
MANZ	105.55	PP	12:05:02.208		87.5	7.18	TAS		a_e
MOX	105.80	SKSac	12:11:20.105	0.5	86.3	4.76	TAS		a_e
MOX	105.80	Pdiff	12:00:43.282	0.1	83.6	4.53	TAS		a_e
MOX	105.80	PP	12:05:03.758		87.5	7.18	TAS		m_e
MOX	105.80	L	12:56:39.966				T__	25140.0 18.60	a_e Ms 6.8
NEUB	105.64	SKSac	12:11:18.705	-0.3	86.3	4.76	TAS		m_e
NEUB	105.64	Pdiff	12:00:42.082	-0.4	83.6	4.53	TAS		a_e
NEUB	105.64	PP	12:05:02.458		87.5	7.18	TAS		a_e
NRDL	106.51	SKSac	12:11:24.155	0.7	86.3	4.76	TAS		a_e
NRDL	106.51	Pdiff	12:00:46.382	-0.0	83.6	4.53	TAS		a_e
NRDL	106.51	PP	12:05:09.558		87.5	7.18	TAS		a_e
PLN	105.47	SKSac	12:11:17.055	-0.9	86.3	4.76	TAS		a_e
PLN	105.47	Pdiff	12:00:41.532	-0.1	83.6	4.53	TAS		m_e
PLN	105.47	PP	12:05:01.208	-0.2	87.5	7.18	TAS		a_e
RETH	106.92	Pdiff	12:00:48.082	-0.2	83.6	4.53	TAS		a_e
RETH	106.92	PP	12:05:12.358	-0.4	87.5	7.18	TAS		a_e
RGN	104.35	SKSac	12:11:14.255	0.5	86.3	4.76	TAS		a_e
RGN	104.35	Pdiff	12:00:36.732	-0.1	83.6	4.53	TAS		a_e
RGN	104.35	PP	12:04:55.608	0.1	87.5	7.18	TAS		a_e
RJOB	105.30	SKSac	12:11:16.105	-0.5	86.3	4.76	TAS		a_e
RJOB	105.30	Pdiff	12:00:40.682	-0.3	83.6	4.53	TAS		a_e
RJOB	105.30	PP	12:04:59.380	-0.2	87.5	7.18	TAS		m_e
ROTZ	105.51	SKSac	12:11:19.205	1.2	86.3	4.76	TAS		a_e
ROTZ	105.51	SS	12:19:55.935	0.1	94.6	14.23	TAS		m_e
ROTZ	105.51	Pdiff	12:00:42.282	0.4	83.6	4.53	TAS		a_e
ROTZ	105.51	PP	12:05:01.808	0.3	87.5	7.18	TAS		a_e

RUE	104.28	SKSac	12:11:11.305	-1.5	86.3	4.76	TAS	a_e
RUE	104.28	Pdiff	12:00:35.832	-0.5	83.6	4.53	TAS	a_e
RUE	104.28	PP	12:04:52.408	0.1	87.5	7.18	TAS	a_e
STU	107.58	SKSac	12:11:26.255	-1.5	86.3	4.76	TAS	a_e
STU	107.58	Pdiff	12:00:50.932	-0.3	83.6	4.53	TAS	a_e
STU	107.58	PP	12:05:15.408		87.5	7.18	TAS	a_e
TANN	105.29	SKSac	12:11:17.355	0.3	86.3	4.76	TAS	a_e
TANN	105.29	Pdiff	12:00:41.232	0.4	83.6	4.53	TAS	a_e
TANN	105.29	PP	12:05:00.158	-0.1	87.5	7.18	TAS	a_e
TNS	107.86	SKSac	12:11:29.955	0.6	86.3	4.76	TAS	a_e
TNS	107.86	SS	12:20:38.207		94.6	14.23	TAS	m_e
TNS	107.86	Pdiff	12:00:52.682	0.2	83.6	4.53	TAS	a_e
TNS	107.86	PP	12:05:18.158		87.5	7.18	TAS	a_e
UBBA	106.80	SKSac	12:11:25.455	1.1	86.3	4.76	TAS	a_e
UBBA	106.80	Pdiff	12:00:47.732	0.1	83.6	4.53	TAS	a_e
UBBA	106.80	PP	12:05:10.558		87.5	7.18	TAS	a_e
UBR	107.11	SKSac	12:11:24.905	-0.4	86.3	4.76	TAS	a_e
UBR	107.11	SS	12:20:10.114		94.6	14.23	TAS	m_e
UBR	107.11	Pdiff	12:00:48.932	-0.2	83.6	4.53	TAS	a_e
UBR	107.11	PP	12:05:10.958		87.5	7.18	TAS	a_e
WET	105.13	SKSac	12:11:16.555	0.5	86.3	4.76	TAS	a_e
WET	105.13	Pdiff	12:00:40.332	0.2	83.6	4.53	TAS	a_e
WET	105.13	PP	12:04:58.358	0.0	87.5	7.18	TAS	a_e
WLF	109.42	SKSac	12:11:35.755	-0.9	86.3	4.76	TAS	a_e
WLF	109.42	SS	12:20:52.782		94.6	14.23	TAS	m_e
WLF	109.42	Pdiff	12:00:59.782	0.3	83.6	4.53	TAS	a_e
WLF	109.42	PP	12:05:29.558		87.5	7.18	TAS	a_e

Event 80805009 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/05	22:50:14.91			41.0290	143.8220				33.0			27		77.31	82.71	m i ke	BGR
80805015																	

Magnitude Err Nsta Author OrigID  
mb 4.8 BGR 80805015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	81.26		P	23:02:25.590	0.0	34.3		5.38		TAS		7.0	0.96	a_e mb	4.7
BFO	82.71		P	23:02:32.973	-0.0	34.3		5.38		TAS		5.7	0.84	m_e mb	4.8
BRG	78.55		P	23:02:10.840	-0.2	34.3		5.38		TAS		5.3	0.96	a_e mb	4.5
BSEG	77.33		P	23:02:04.490	0.1	34.3		5.38		TAS		14.6	0.92	a_e mb	5.1
BUG	80.43		P	23:02:20.940	-0.1	34.3		5.38		TAS		11.2	1.11	a_e mb	4.7
CLL	78.54		P	23:02:10.490	-0.5	34.3		5.38		TAS		13.5	0.85	a_e mb	5.0
CLZ	79.04		P	23:02:13.990	0.3	34.3		5.38		TAS		11.4	0.90	a_e mb	4.9
FLT1	78.34		P	23:02:09.290	-0.6	34.3		5.38		TAS		13.3	0.84	a_e mb	5.1

FUR	81.77	P	23:02:28.290	0.2	34.3	5.38	TAS	16.6	0.84	a_e	mb	5.2
GEC2	80.28	P	23:02:20.090	-0.3	34.3	5.38	TAS	5.2	0.96	a_e	mb	4.4
GOR1	77.77	P	23:02:07.140	0.3	34.3	5.38	TAS	20.4	1.18	a_e	mb	5.1
GRA1	80.52	P	23:02:22.440	0.3	34.3	5.38	TAS	21.8	0.94	m_e	mb	5.2
GTTG	79.43	P	23:02:15.890	0.2	34.3	5.38	TAS	10.4	0.83	a_e	mb	4.9
IBBN	79.54	P	23:02:16.240	0.0	34.3	5.38	TAS	16.7	0.90	a_e	mb	5.0
KAST	80.25	P	23:02:20.190	0.1	34.3	5.38	TAS	5.2	0.91	a_e	mb	4.5
MANZ	79.95	P	23:02:18.590	0.0	34.3	5.38	TAS	1.3	0.86	a_e	mb	3.9
MOX	79.59	P	23:02:16.590	-0.0	34.3	5.38	TAS	6.0	1.00	a_e	mb	4.5
NEUB	79.08	P	23:02:13.640	-0.2	34.3	5.38	TAS	11.4	0.83	a_e	mb	4.9
NRDL	78.59	P	23:02:11.090	-0.1	34.3	5.38	TAS	4.8	0.87	a_e	mb	4.5
PLN	79.52	P	23:02:16.148	-0.1	34.3	5.38	TAS	4.0	0.90	m_e	mb	4.3
RETH	78.64	P	23:02:11.590	0.1	34.3	5.38	TAS	10.3	1.09	a_e	mb	4.8
RJOB	81.53	P	23:02:27.290		34.3	5.38	TAS	10.8	0.87	m_e	mb	5.0
ROTZ	80.10	P	23:02:19.640	0.3	34.3	5.38	TAS	1.8	0.95	a_e	mb	4.0
RUE	77.31	P	23:02:04.240	-0.1	34.3	5.38	TAS	17.4	0.90	a_e	mb	5.2
STU	82.03	P	23:02:29.440	-0.4	34.3	5.38	TAS	43.5	1.12	a_e	mb	5.5
TNS	81.07	P	23:02:24.490	-0.0	34.3	5.38	TAS	8.8	1.10	a_e	mb	4.7
WET	80.35	P	23:02:21.040	-0.2	34.3	5.38	TAS	8.1	0.98	a_e	mb	4.6

Event 80805010 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/05	23:22:12.07			19.2930	122.0100				34.4	3.4		29		85.46	91.03	m i ke	BGR
OrigID 80805016																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	80805016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	90.07	P		23:35:07.931	0.2	62.0		4.74		TAS		5.2	1.12	a_e	mb	4.7
BFO	90.49	P		23:35:09.231	0.6	62.0		4.74		TAS		2.5	0.93	a_e	mb	4.4
BRG	86.07	P		23:34:48.481	-0.3	62.0		4.74		TAS		10.1	0.99	a_e	mb	4.9
BRG	86.07	pP		23:34:58.685	-0.9					T__				m_e		
BSEG	86.65	P		23:34:51.681	0.2	62.0		4.74		TAS		8.4	1.04	a_e	mb	4.8
BSEG	86.65	pP		23:35:01.948	-0.9					T__				m_e		
BUG	89.50	P		23:35:04.981	-0.0	62.0		4.74		TAS		4.9	1.14	a_e	mb	4.6
BUG	89.50	pP		23:35:15.389	0.3					T__				m_e		
CLL	86.41	P		23:34:49.831	-0.5	62.0		4.74		TAS		10.3	0.94	a_e	mb	4.9
CLL	86.41	pP		23:34:59.867	-0.9					T__				m_e		
CLZ	87.62	P		23:34:56.631	0.5	62.0		4.74		TAS		11.5	1.35	a_e	mb	5.0
CLZ	87.62	pP		23:35:06.388	0.3					T__				m_e		
FLT1	86.92	P		23:34:52.281	-0.5	62.0		4.74		TAS		6.3	1.10	a_e	mb	4.7
FLT1	86.92	pP		23:35:02.116	-0.9					T__				m_e		
FUR	88.85	P		23:35:02.540	-0.0	62.0		4.74		TAS		11.2	1.03	m_e	mb	5.0
GEC2	87.10	P		23:34:53.439	-0.5	62.0		4.74		TAS		7.1	0.89	m_e	mb	4.8





BFO	81.29	sP	04:48:08.055					T__	7.4	0.92	m_e		
BRG	77.80	P	04:47:38.274	-0.4	93.6	5.44		TAS	7.5	0.80	m_e mb	4.9	
BRG	77.80	sP	04:47:48.562	0.2				T__	7.5	0.80	m_e		
BSEG	80.27	P	04:47:51.888		93.6	5.44		TAS	16.4	0.98	m_e mb	4.9	
BSEG	80.27	sP	04:48:01.523	-0.0				T__	16.4	0.98	m_e		
BUG	82.03	sP	04:48:11.954					T__	12.0	0.83	m_e		
CLL	78.44	sP	04:47:51.590	-0.2				T__	11.6	1.11	m_e		
CLZ	80.11	P	04:47:51.084		93.6	5.44		TAS	12.1	0.83	m_e mb	4.9	
CLZ	80.11	sP	04:48:00.965	0.0				T__	12.1	0.83	m_e		
FLT1	79.61	sP	04:47:57.568	-0.1				T__	4.9	0.94	m_e		
GEC2	77.76	P	04:47:38.506	0.1	93.6	5.44		TAS	11.3	0.92	m_e mb	5.0	
GEC2	77.76	sP	04:47:48.532	0.2				T__	11.3	0.92	m_e		
GRA1	79.44	sP	04:47:57.581	-0.3				T__	18.7	0.80	m_e		
GRA1	79.44	L	05:31:55.142					T__	123.3	19.30	a_e Ms	4.3	
GTTG	80.35	sP	04:48:02.061					T__	15.3	0.86	m_e		
KAST	81.31	P	04:47:57.795		93.6	5.44		TAS	7.8	0.97	m_e mb	4.7	
KAST	81.31	sP	04:48:07.741					T__	7.8	0.97	m_e		
MANZ	78.89	P	04:47:44.898	-0.2	93.6	5.44		TAS	4.5	0.98	m_e mb	4.5	
MANZ	78.89	sP	04:47:54.887	0.2				T__	4.5	0.98	m_e		
MOX	79.25	P	04:47:46.593	-0.2	93.6	5.44		TAS	8.5	1.08	m_e mb	4.7	
MOX	79.25	sP	04:47:56.451	-0.0				T__	8.5	1.07	m_e		
MOX	79.25	L	05:25:48.764					T__	126.7	20.90	a_e Ms	4.2	
NEUB	79.20	P	04:47:46.223	-0.1	93.6	5.44		TAS	10.6	0.68	m_e mb	5.0	
NEUB	79.20	sP	04:47:56.023	0.0				T__	10.6	0.68	m_e		
NRDL	80.31	P	04:47:52.095		93.6	5.44		TAS	10.7	1.18	m_e mb	4.7	
PLN	78.90	sP	04:47:54.715	-0.0				T__	8.1	0.89	m_e		
RJOB	78.27	P	04:47:41.025	0.1	93.6	5.44		TAS	6.0	0.85	m_e mb	4.8	
RJOB	78.27	sP	04:47:50.967	-0.3				T__	6.0	0.85	m_e		
ROTZ	78.81	P	04:47:44.498	0.0	93.6	5.44		TAS	2.8	0.92	m_e mb	4.3	
ROTZ	78.81	sP	04:47:54.452	0.4				T__	2.8	0.92	m_e		
RUE	78.07	sP	04:47:49.773	0.2				T__	30.1	0.76	m_e		
TANN	78.70	P	04:47:43.733	-0.0	93.6	5.44		TAS	5.5	1.07	m_e mb	4.5	
TANN	78.70	sP	04:47:53.141	0.4				T__	5.5	1.07	m_e		
TNS	81.26	sP	04:48:07.834					T__	8.5	0.85	m_e		
UBR	80.08	P	04:47:50.790		93.6	5.44		TAS	12.1	0.84	m_e mb	4.9	
UBR	80.08	sP	04:48:01.068	0.2				T__	12.1	0.84	m_e		
WET	78.33	P	04:47:41.604	0.2	93.6	5.44		TAS	8.5	1.01	m_e mb	4.8	
WET	78.33	sP	04:47:51.411	-0.1				T__	8.5	1.01	m_e		
WLF	82.73	P	04:48:05.668		93.6	5.44		TAS	15.2	1.06	m_e mb	5.2	
WLF	82.73	sP	04:48:15.985					T__	15.2	1.06	m_e		

Event 80806007 Lake Tanganyika region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/06	21:07:45.51			-7.9080	30.9260				33.0					59.88	59.88	m i ke	BGR
80806013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	80806013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	59.88		P	21:17:49.982		156.1		6.72		TAS		3.8	0.87	m_e	mb 4.4
GRA1	59.88		pP	21:18:00.110						T__				m_e	

Event 80807001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/07	01:03:48.03			-18.0820	-173.9290				33.0				23	145.32	150.30	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
BFO	149.77		PKPbc	01:23:34.104	-0.2	9.9		2.75		TAS				m_e	
BRG	146.69		PKPbc	01:23:25.681	0.3	9.9		2.75		TAS				m_e	
BUG	146.70		PKPbc	01:23:26.049	-0.2	9.9		2.75		TAS				m_e	
CLL	146.40		PKPbc	01:23:24.732	0.0	9.9		2.75		TAS				m_e	
CLZ	146.14		PKPbc	01:23:24.459	0.2	9.9		2.75		TAS				m_e	
FLT1	145.58		PKPbc	01:23:22.144	-0.5	9.9		2.75		TAS				m_e	
FUR	149.70		PKPbc	01:23:33.974		9.9		2.75		TAS				m_e	
GEC2	148.70		PKPbc	01:23:30.959	-0.1	9.9		2.75		TAS				m_e	
GRA1	148.19		PKPbc	01:23:30.021	-0.4	9.9		2.75		TAS				m_e	
IBBN	145.82		PKPbc	01:23:23.594	0.1	9.9		2.75		TAS				m_e	
KAST	146.90		PKPbc	01:23:26.472	-0.1	9.9		2.75		TAS				m_e	
MANZ	147.80		PKPbc	01:23:29.179	0.0	9.9		2.75		TAS				m_e	
MOX	147.21		PKPbc	01:23:27.428	0.1	9.9		2.75		TAS				m_e	
NRDL	145.51		PKPbc	01:23:22.225	-0.3	9.9		2.75		TAS				m_e	
PLN	147.31		PKPbc	01:23:27.541	0.4	9.9		2.75		TAS				m_e	
RETH	145.32		PKPbc	01:23:21.701	-0.3	9.9		2.75		TAS				m_e	
RJOB	149.91		PKPbc	01:23:34.233		9.9		2.75		TAS				m_e	
ROTZ	148.01		PKPbc	01:23:29.659	0.1	9.9		2.75		TAS				m_e	
TANN	147.34		PKPbc	01:23:27.811	0.4	9.9		2.75		TAS				m_e	
TNS	147.88		PKPbc	01:23:29.494	0.3	9.9		2.75		TAS				m_e	
UBR	150.30		PKPbc	01:23:35.477		9.9		2.75		TAS				m_e	
WET	148.53		PKPbc	01:23:31.414	-0.2	9.9		2.75		TAS				m_e	
WLF	148.49		PKPbc	01:23:31.122	0.6	9.9		2.75		TAS				m_e	

Event 80807009 Norwegian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2018/08/07 13:57:20.32 73.9600 10.6200 33.0 33 19.52 26.37 m i ke BGR  
 80807015

Magnitude Err Nsta Author OrigID  
 mb 5.6 BGR 80807015  
 Ms 5.2 BGR 80807015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	23.55		P	14:02:28.582	0.4	1.2		9.90		TAS		228.2	1.09	m_e	mb	5.6
BFO	25.74		P	14:02:48.229	-0.8	1.2		9.90		TAS		211.2	1.24	m_e	mb	5.6
BRG	23.22		P	14:02:23.717	-0.2	1.2		9.90		TAS		188.2	1.49	m_e	mb	5.4
BSEG	20.11		P	14:01:51.889	-1.9	1.2		9.90		TAS		535.5	1.55	m_e	mb	5.5
BUG	22.65		P	14:02:18.454	0.0	1.2		9.90		TAS		177.9	1.08	m_e	mb	5.5
CLL	22.76		P	14:02:19.346	0.4	1.2		9.90		TAS		136.6	1.11	m_e	mb	5.4
CLZ	22.20		P	14:02:14.391	0.9	1.2		9.90		TAS		250.8	1.25	m_e	mb	5.5
FLT1	21.72		P	14:02:08.756	-0.8	1.2		9.90		TAS		477.7	1.18	m_e	mb	5.8
FUR	25.89		P	14:02:50.012	-1.1	1.2		9.90		TAS		301.6	1.35	m_e	mb	5.8
GEC2	25.24		P	14:02:43.992	-0.1	1.2		9.90		TAS		250.9	1.29	m_e	mb	5.8
GOR1	21.05		P	14:02:02.689	-0.3	1.2		9.90		TAS		3247.9	2.12	m_e	mb	6.3
GRA1	24.36		P	14:02:36.109	0.3	1.2		9.90		TAS		238.0	1.27	m_e	mb	5.6
GRA1	24.36		L	14:14:12.255						T__		7479.8	18.30	a_e	Ms	5.2
GTTG	22.50		P	14:02:18.301	0.2	1.2		9.90		TAS		281.1	1.80	m_e	mb	5.5
HLG	19.89		P	14:01:50.337	-0.8	1.2		9.90		TAS		296.3	1.19	m_e	mb	5.4
IBBN	21.77		P	14:02:09.077	-0.7	1.2		9.90		TAS		565.9	1.88	m_e	mb	5.7
KAST	22.86		P	14:02:21.211	0.1	1.2		9.90		TAS		692.2	1.98	m_e	mb	5.8
MANZ	24.07		P	14:02:32.927	0.3	1.2		9.90		TAS		101.9	2.04	m_e	mb	5.0
MOX	23.41		P	14:02:26.638	1.4	1.2		9.90		TAS		332.3	1.30	m_e	mb	5.7
MOX	23.41		L	14:13:33.189						T__		6757.5	18.20	a_e	Ms	5.1
NEUB	22.86		P	14:02:20.807	0.4	1.2		9.90		TAS		184.6	0.88	m_e	mb	5.6
NRDL	21.55		P	14:02:07.487	-0.6	1.2		9.90		TAS		449.2	1.25	m_e	mb	5.8
PLN	23.57		P	14:02:28.067	0.3	1.2		9.90		TAS		485.9	1.71	m_e	mb	5.8
RETH	21.31		P	14:02:05.134	-0.5	1.2		9.90		TAS		333.1	1.29	m_e	mb	5.5
RGN	19.52		P	14:01:48.185	1.0	1.2		9.90		TAS		1784.7	1.40	m_e	mb	6.1
RJOB	26.33		P	14:02:53.613	-1.4	1.2		9.90		TAS		86.5	1.05	m_e	mb	5.3
ROTZ	24.29		P	14:02:35.119	1.6	1.2		9.90		TAS		33.0	1.05	m_e	mb	4.8
RUE	21.61		P	14:02:08.222	0.7	1.2		9.90		TAS		1376.1	1.75	m_e	mb	6.1
STU	25.29		P	14:02:44.886	-1.0	1.2		9.90		TAS		372.2	1.30	m_e	mb	6.0
TANN	23.65		P	14:02:28.629	0.8	1.2		9.90		TAS		108.7	1.14	m_e	mb	5.3
TNS	23.84		P	14:02:31.272	0.3	1.2		9.90		TAS		307.9	1.56	m_e	mb	5.6
UBBA	23.23		P	14:02:24.463	0.4	1.2		9.90		TAS		766.1	2.41	m_e	mb	5.8
UBR	26.37		P	14:02:54.352		1.2		9.90		TAS		212.4	1.67	m_e	mb	5.5
WET	24.92		P	14:02:41.051	0.5	1.2		9.90		TAS		299.3	1.28	m_e	mb	5.9
WLF	24.46		P	14:02:37.175	0.4	1.2		9.90		TAS		179.4	1.30	m_e	mb	5.4

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/07	15:12:59.74			37.6550	144.8790				33.0			3		79.18	87.14	m i k e	BGR
80807009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	80807009
Ms	5.4		BGR	80807009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	84.65		P	15:25:28.485	0.3	35.2		5.12		TAS		26.4	0.85	a_e	mb	5.5
BALST	87.14		P	15:25:40.701	-0.3	35.2		5.12		TAS		57.2	0.76	m_e	mb	5.8
BFO	86.07		P	15:25:35.535	0.0	35.2		5.12		TAS		81.0	0.92	a_e	mb	5.8
BRG	81.89		P	15:25:13.835	-0.2	35.2		5.12		TAS		25.5	0.82	a_e	mb	5.4
BRG	81.89		PP	15:28:19.579		37.2		8.11		TAS				m_e		
BSEG	80.72		P	15:25:07.931	-0.1	35.2		5.12		TAS		57.6	0.92	m_e	mb	5.6
BSEG	80.72		PP	15:28:11.046		37.2		8.11		TAS				m_e		
BUG	83.83		P	15:25:23.891	-0.1	35.2		5.12		TAS		20.5	0.73	m_e	mb	5.4
CLL	81.90		P	15:25:13.685	-0.4	35.2		5.12		TAS		49.7	0.78	a_e	mb	5.7
CLZ	82.42		P	15:25:17.135	0.3	35.2		5.12		TAS		53.3	0.97	a_e	mb	5.6
FLT1	81.71		P	15:25:12.585	-0.6	35.2		5.12		TAS		42.1	0.85	a_e	mb	5.6
FUR	85.10		P	15:25:31.097	0.5	35.2		5.12		TAS		81.4	0.66	m_e	mb	6.1
GEC2	83.60		P	15:25:22.735	-0.1	35.2		5.12		TAS		17.4	0.61	a_e	mb	5.5
GOR1	81.15		P	15:25:10.267	0.0	35.2		5.12		TAS		163.0	1.38	m_e	mb	5.9
GRA1	83.87		P	15:25:24.885	0.6	35.2		5.12		TAS		46.5	0.76	a_e	mb	5.8
GRA1	83.87		L	16:06:05.264						T_		1843.1	19.40	a_e	Ms	5.5
GTTG	82.81		P	15:25:18.935	0.2	35.2		5.12		TAS		58.2	1.02	a_e	mb	5.8
HLG	81.32		P	15:25:11.135	0.1	35.2		5.12		TAS		33.6	0.76	a_e	mb	5.4
IBBN	82.93		P	15:25:19.435	0.1	35.2		5.12		TAS		141.5	1.19	a_e	mb	6.1
KAST	83.63		P	15:25:23.054	0.1	35.2		5.12		TAS		19.4	0.79	m_e	mb	5.4
MANZ	83.30		P	15:25:21.435	0.1	35.2		5.12		TAS		5.3	0.75	a_e	mb	4.8
MOX	82.95		P	15:25:19.535	0.0	35.2		5.12		TAS		27.3	0.94	m_e	mb	5.5
MOX	82.95		L	16:05:46.598						T_		1556.0	21.20	a_e	Ms	5.4
NEUB	82.44		P	15:25:16.785	-0.1	35.2		5.12		TAS		51.9	0.72	a_e	mb	5.8
NRDL	81.98		P	15:25:14.485	-0.0	35.2		5.12		TAS		16.9	0.79	a_e	mb	5.2
NRDL	81.98		PP	15:28:21.072		37.2		8.11		TAS				m_e		
PLN	82.87		P	15:25:19.185	0.0	35.2		5.12		TAS		50.1	1.25	a_e	mb	5.6
PLONS	86.75		P	15:25:38.584	-0.4	35.2		5.12		TAS		43.3	0.77	m_e	mb	5.6
RETH	82.03		P	15:25:14.835	0.1	35.2		5.12		TAS		87.3	1.24	a_e	mb	5.7
RGN	79.18		P	15:24:59.735	-0.5	35.2		5.12		TAS		38.8	0.44	a_e	mb	5.7
RJOB	84.85		P	15:25:29.685	0.4	35.2		5.12		TAS		64.1	0.96	a_e	mb	5.8
ROTZ	83.44		P	15:25:22.485	0.4	35.2		5.12		TAS		6.3	0.77	a_e	mb	4.9
SLE	86.48		P	15:25:36.993	-0.6	35.2		5.12		TAS		123.8	0.97	m_e	mb	6.0
STU	85.39		P	15:25:32.135	0.1	35.2		5.12		TAS		245.5	0.94	a_e	mb	6.4
SULZ	86.82		P	15:25:39.001	-0.4	35.2		5.12		TAS		124.3	0.97	m_e	mb	6.0
TANN	82.82		P	15:25:18.935	0.1	35.2		5.12		TAS		15.9	0.90	a_e	mb	5.2
TNS	84.44		P	15:25:27.335	0.2	35.2		5.12		TAS		20.8	0.83	a_e	mb	5.4
UBBA	83.39		P	15:25:21.635	-0.2	35.2		5.12		TAS		3.1	0.35	a_e	mb	4.9
UBR	85.95		P	15:25:34.735	-0.1	35.2		5.12		TAS		19.8	0.72	a_e	mb	5.3

WET	83.68	P	15:25:23.685	0.4	35.2	5.12	TAS	25.1	0.90	a_e	mb	5.4
WILA	86.62	P	15:25:37.893	-0.5	35.2	5.12	TAS	23.6	0.66	m_e	mb	5.5
WLF	85.71	P	15:25:34.076	0.5	35.2	5.12	TAS	43.7	0.96	m_e	mb	5.6

Event 80807005 Venezuela

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/07	15:54:07.22			7.5600	-71.9100				167.2	4.0		29		76.55	81.57	m i ke	BGR
80807011																	

Magnitude Err Nsta Author OrigID  
 mb 4.8 BGR 80807011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	77.20		P	16:05:43.730	0.1	269.4		5.42		TAS		14.8	0.93	m_e	mb	5.1
AHRW	77.20		pP	16:06:25.607	0.2	269.6		4.98		TAS				m_e		
BFO	77.91		P	16:05:47.026	-0.3	269.4		5.42		TAS		5.2	0.85	m_e	mb	4.7
BRG	81.57		P	16:06:07.078		269.4		5.42		TAS		4.9	0.75	m_e	mb	4.7
BSEG	79.36		P	16:05:55.224	0.0	269.4		5.42		TAS		21.7	0.94	m_e	mb	5.2
BSEG	79.36		pP	16:06:36.210		269.6		4.98		TAS				m_e		
BUG	77.38		P	16:05:44.542	-0.1	269.4		5.42		TAS		14.0	0.53	m_e	mb	5.3
CLL	80.97		P	16:06:03.691	-0.5	269.4		5.42		TAS		9.1	1.06	m_e	mb	4.7
CLZ	79.33		P	16:05:55.070	0.0	269.4		5.42		TAS		10.5	0.76	m_e	mb	4.9
FLT1	79.88		P	16:05:57.555	0.1	269.4		5.42		TAS		13.9	0.84	m_e	mb	4.9
GEC2	81.48		P	16:06:06.182	-0.2	269.4		5.42		TAS		7.3	0.65	m_e	mb	4.9
GRA1	79.84		P	16:05:57.896	-0.5	269.4		5.42		TAS		11.2	1.06	m_e	mb	4.7
GTTG	79.07		P	16:05:53.994	0.3	269.4		5.42		TAS		4.9	0.69	m_e	mb	4.7
HLG	77.94		pP	16:06:29.311	-0.0	269.6		4.98		TAS				m_e		
IBBN	77.74		P	16:05:46.132	-0.4	269.4		5.42		TAS		20.2	0.64	m_e	mb	5.4
KAST	78.09		P	16:05:48.592	-0.1	269.4		5.42		TAS		6.5	0.94	m_e	mb	4.7
MANZ	80.42		P	16:06:00.989	0.0	269.4		5.42		TAS		2.1	0.85	m_e	mb	4.1
MOX	80.10		P	16:05:59.391	-0.2	269.4		5.42		TAS		3.8	0.73	m_e	mb	4.4
NEUB	80.20		P	16:05:59.565	0.0	269.4		5.42		TAS		8.3	0.82	m_e	mb	4.7
NRDL	79.19		P	16:05:54.605	-0.1	269.4		5.42		TAS		9.3	0.88	m_e	mb	4.8
NRDL	79.19		pP	16:06:35.239		269.6		4.98		TAS				m_e		
PLN	80.44		P	16:06:01.164	0.4	269.4		5.42		TAS		8.3	0.79	m_e	mb	4.7
PLN	80.44		pP	16:06:41.936		269.6		4.98		TAS				m_e		
RETH	78.74		P	16:05:52.281	0.3	269.4		5.42		TAS		7.6	0.81	m_e	mb	4.8
RJOB	80.90		P	16:06:03.820	0.1	269.4		5.42		TAS		6.8	0.64	m_e	mb	4.8
ROTZ	80.48		P	16:06:01.709	-0.2	269.4		5.42		TAS		0.9	0.87	m_e	mb	3.7
STU	78.50		P	16:05:50.452	0.4	269.4		5.42		TAS		39.8	0.86	m_e	mb	5.6
TANN	80.64		P	16:06:02.007	0.3	269.4		5.42		TAS		7.7	0.81	m_e	mb	4.8
TANN	80.64		pP	16:06:42.685		269.6		4.98		TAS				m_e		
TNS	78.06		P	16:05:48.879	0.2	269.4		5.42		TAS		14.7	0.83	m_e	mb	5.1
UBBA	79.07		P	16:05:53.988	0.3	269.4		5.42		TAS		1.5	0.57	m_e	mb	4.2
UBR	79.08		P	16:05:53.953	0.2	269.4		5.42		TAS		4.5	0.65	m_e	mb	4.6

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WET	80.93	P	16:06:03.806	-0.3	269.4	5.42	TAS	9.3	1.11	m_e	mb	4.7
WLF	76.55	P	16:05:39.423	-0.7	269.4	5.42	TAS	19.8	0.80	m_e	mb	5.3

Event 80807006 Norwegian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/07	16:56:02.50			73.3300	10.3700				10.0			30		19.47	25.74	m i ke	BGR
OrigID 80807012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	80807012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	22.92		P	17:01:07.214	0.4	1.5		10.14		TAS		26.8	1.28	m_e	mb	4.6
BFO	25.10		P	17:01:28.826	-0.6	1.5		10.14		TAS		18.6	1.03	a_e	mb	4.8
BRG	22.59		P	17:01:03.726	1.0	1.5		10.14		TAS		22.9	1.69	a_e	mb	4.4
BSEG	19.47		P	17:00:31.582	-0.9	1.5		10.14		TAS		165.8	2.29	m_e	mb	4.9
BUG	22.01		P	17:00:58.076	0.4	1.5		10.14		TAS		40.5	1.41	a_e	mb	4.7
CLL	22.13		P	17:00:59.276	0.6	1.5		10.14		TAS		39.2	1.71	a_e	mb	4.6
CLZ	21.57		P	17:00:53.270	-0.5	1.5		10.14		TAS		24.4	1.08	m_e	mb	4.6
FLT1	21.08		P	17:00:47.676	-1.0	1.5		10.14		TAS		44.3	1.18	a_e	mb	4.7
FUR	25.26		P	17:01:30.876	-0.1	1.5		10.14		TAS		17.7	0.89	a_e	mb	4.8
GEC2	24.61		P	17:01:23.126	-0.2	1.5		10.14		TAS		22.5	1.02	a_e	mb	4.8
GOR1	20.42		P	17:00:42.074	0.1	1.5		10.14		TAS		144.5	1.48	m_e	mb	5.0
GRA1	23.73		P	17:01:15.376	-0.1	1.5		10.14		TAS		18.6	0.85	a_e	mb	4.6
GTTG	21.87		P	17:00:56.866	0.1	1.5		10.14		TAS		16.9	0.97	m_e	mb	4.4
IBBN	21.13		P	17:00:48.245	-0.7	1.5		10.14		TAS		10.0	0.87	m_e	mb	4.2
KAST	22.23		P	17:01:00.826	0.6	1.5		10.14		TAS		25.4	1.16	a_e	mb	4.5
MANZ	23.44		P	17:01:12.176	-0.1	1.5		10.14		TAS		4.7	1.49	a_e	mb	3.8
MOX	22.77		P	17:01:05.626	-0.1	1.5		10.14		TAS		94.0	2.02	a_e	mb	5.0
NEUB	22.23		P	17:01:00.326	0.2	1.5		10.14		TAS		43.6	1.11	a_e	mb	4.8
NRDL	20.92		P	17:00:46.376	-0.8	1.5		10.14		TAS		74.5	1.43	a_e	mb	4.8
PLN	22.94		P	17:01:07.326	0.1	1.5		10.14		TAS		40.8	1.64	a_e	mb	4.7
RETH	20.68		P	17:00:43.976	-0.7	1.5		10.14		TAS		48.8	1.25	m_e	mb	4.7
RJOB	25.70		P	17:01:33.726	-1.2	1.5		10.14		TAS		10.1	0.99	a_e	mb	4.4
ROTZ	23.66		P	17:01:14.876	0.4	1.5		10.14		TAS		5.2	1.14	a_e	mb	4.0
RUE	20.98		P	17:00:47.076	0.5	1.5		10.14		TAS		45.8	1.23	a_e	mb	4.7
TANN	23.02		P	17:01:08.176	0.3	1.5		10.14		TAS		64.7	2.06	a_e	mb	4.8
TNS	23.21		P	17:01:10.449	3.0	1.5		10.14		TAS		14.0	1.18	m_e	mb	4.4
UBBA	22.59		P	17:01:03.726	-0.5	1.5		10.14		TAS		37.5	1.64	a_e	mb	4.7
UBR	25.74		P	17:01:34.546	-1.5	1.5		10.14		TAS		1140.8	6.74	m_e	mb	5.6
WET	24.30		P	17:01:21.676	1.0	1.5		10.14		TAS		17.0	1.13	a_e	mb	4.5
WLF	23.82		P	17:01:15.776	0.3	1.5		10.14		TAS		18.7	1.07	a_e	mb	4.5

Event 80807007 Kyrgyzstan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/07	17:17:22.53			40.8780	73.1170				33.0				5	41.87	45.49	m i ke	BGR
OrigID 80807013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	80807013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	45.49		P	17:25:40.148		81.2		7.14		TAS		3.6	0.77	m_e	mb	4.4
CLL	41.87		P	17:25:07.289		81.2		7.14		TAS		4.4	0.52	m_e	mb	4.4
CLZ	43.39		P	17:25:20.295		81.2		7.14		TAS		5.2	0.98	m_e	mb	4.2
FLT1	42.77		P	17:25:14.434		81.2		7.14		TAS		5.2	0.74	m_e	mb	4.4
GEC2	41.90		P	17:25:08.263		81.2		7.14		TAS		10.3	1.17	m_e	mb	4.4
GRA1	43.30		P	17:25:20.303		81.2		7.14		TAS		14.2	0.73	m_e	mb	4.8
GTTG	43.69		P	17:25:22.936		81.2		7.14		TAS		41.9	1.36	m_e	mb	5.0
IBBN	44.87		P	17:25:32.222		81.2		7.14		TAS		5.8	0.87	m_e	mb	4.5
MOX	42.86		P	17:25:15.650		81.2		7.14		TAS		8.0	1.32	m_e	mb	4.3
NEUB	42.65		P	17:25:14.686		81.2		7.14		TAS		7.7	0.76	m_e	mb	4.5
NRDL	43.42		P	17:25:20.184		81.2		7.14		TAS		7.8	0.93	m_e	mb	4.4
PLN	42.55		P	17:25:14.600		81.2		7.14		TAS		5.0	1.12	m_e	mb	4.2
UBR	44.51		P	17:25:28.969		81.2		7.14		TAS		8.6	0.62	m_e	mb	4.8
WET	42.37		P	17:25:11.936		81.2		7.14		TAS		3.1	0.65	m_e	mb	4.2

Event 80808002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/08	01:42:14.07			-15.2220	-176.2290				384.3	1.8			22	143.25	147.21	m i ke	BGR
OrigID 80808008																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	144.67		PKPbc	02:01:03.943	0.0	12.6		3.14		TAS				m_e	
BFO	146.77		PKPbc	02:01:10.322		12.6		3.14		TAS				m_e	
BFO	146.77		pPKPbc	02:02:42.722						T__				m_e	
BRG	143.50		PKPbc	02:01:00.167	-0.0	12.6		3.14		TAS				m_e	
BUG	143.76		PKPbc	02:01:00.920	0.4	12.6		3.14		TAS				m_e	
CLL	143.25		PKPbc	02:00:59.531	0.5	12.6		3.14		TAS				m_e	
FUR	146.57		PKPbc	02:01:09.874		12.6		3.14		TAS				m_e	
FUR	146.57		pPKPbc	02:02:42.312						T__				m_e	
GEC2	145.49		PKPbc	02:01:06.565		12.6		3.14		TAS				m_e	
GRA1	145.09		PKPbc	02:01:05.537		12.6		3.14		TAS				m_e	
GTTG	143.43		PKPbc	02:00:59.944	0.2	12.6		3.14		TAS				m_e	



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KAST	143.92	PKPbc	02:01:01.559	0.3	12.6	3.14	TAS	m_e
MANZ	144.67	PKPbc	02:01:04.050		12.6	3.14	TAS	m_e
MOX	144.10	PKPbc	02:01:02.167	-0.3	12.6	3.14	TAS	m_e
PLN	144.18	PKPbc	02:01:02.207	-0.3	12.6	3.14	TAS	m_e
RJOB	146.73	PKPbc	02:01:10.141		12.6	3.14	TAS	m_e
RJOB	146.73	pPKPbc	02:02:42.451				T__	m_e
ROTZ	144.87	PKPbc	02:01:04.883		12.6	3.14	TAS	m_e
STU	146.25	PKPbc	02:01:09.070		12.6	3.14	TAS	m_e
TANN	144.20	PKPbc	02:01:02.255	-0.2	12.6	3.14	TAS	m_e
TNS	144.89	PKPbc	02:01:04.931		12.6	3.14	TAS	m_e
UBBA	144.14	PKPbc	02:01:02.149	0.2	12.6	3.14	TAS	m_e
UBR	147.21	PKPbc	02:01:11.680		12.6	3.14	TAS	m_e
UBR	147.21	pPKPbc	02:02:44.588				T__	m_e
WET	145.36	PKPbc	02:01:06.094		12.6	3.14	TAS	m_e
WLF	145.60	PKPbc	02:01:07.641		12.6	3.14	TAS	m_e

Event 80808003 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/08	08:26:01.90			44.5600	149.4200				46.1	3.0		19		76.39	80.62	m i ke	BGR
80808009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	80808009
Ms	4.3		BGR	80808009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	77.41		P	08:37:51.788	-0.2	29.5		5.59		TAS		20.2	1.66	m_e	mb 5.0
CLL	77.33		P	08:37:51.282	-0.4	29.5		5.59		TAS		18.7	0.98	m_e	mb 5.2
CLL	77.33		sP	08:38:10.314		32.4		6.39		TAS				m_e	
CLZ	77.68		P	08:37:53.875	0.2	29.5		5.59		TAS		14.8	1.12	m_e	mb 5.0
CLZ	77.68		pP	08:38:06.361		25.3		5.36		TAS				m_e	
CLZ	77.68		sP	08:38:12.477		32.4		6.39		TAS				m_e	
FLT1	76.99		P	08:37:49.993	0.2	29.5		5.59		TAS		8.6	0.93	m_e	mb 4.9
FUR	80.62		P	08:38:09.100		29.5		5.59		TAS		22.3	0.52	m_e	mb 5.4
GEC2	79.23		P	08:38:02.194		29.5		5.59		TAS		4.0	0.68	m_e	mb 4.6
GEC2	79.23		pP	08:38:16.057		25.3		5.36		TAS				m_e	
GEC2	79.23		sP	08:38:21.736		32.4		6.39		TAS				m_e	
GOR1	76.39		P	08:37:46.865	-0.3	29.5		5.59		TAS		27.5	1.12	m_e	mb 5.3
GRA1	79.30		L	09:17:35.863						T__		127.6	19.10	a_e	Ms 4.3
KAST	78.81		P	08:38:00.302		29.5		5.59		TAS		4.9	0.90	m_e	mb 4.5
KAST	78.81		pP	08:38:13.845		25.3		5.36		TAS				m_e	
MANZ	78.76		P	08:37:59.485		29.5		5.59		TAS		1.7	1.13	m_e	mb 4.0
MANZ	78.76		sP	08:38:19.524		32.4		6.39		TAS				m_e	
MOX	78.35		P	08:37:57.009	-1.0	29.5		5.59		TAS		4.2	0.81	m_e	mb 4.6
MOX	78.35		sP	08:38:16.908		32.4		6.39		TAS				m_e	

MOX	78.35	L	09:16:50.963							T__	167.8	18.60	a_e	Ms	4.4
NRDL	77.18	sP	08:38:10.871	0.3	32.4			6.39		TAS			m_e		
PLN	78.31	P	08:37:57.968	0.3	29.5			5.59		TAS	5.1	0.88	m_e	mb	4.7
RETH	77.18	P	08:37:50.137	0.8	29.5			5.59		TAS	15.7	1.14	m_e	mb	5.0
RETH	77.18	pP	08:38:03.939		25.3			5.36		TAS			m_e		
RJOB	80.49	P	08:38:09.625		29.5			5.59		TAS	4.4	0.67	m_e	mb	4.5
ROTZ	78.92	P	08:38:01.670		29.5			5.59		TAS	1.5	1.04	m_e	mb	4.0
ROTZ	78.92	pP	08:38:14.584		25.3			5.36		TAS			m_e		
TANN	78.28	P	08:37:56.738	0.1	29.5			5.59		TAS	3.2	0.85	m_e	mb	4.5
TANN	78.28	pP	08:38:10.290		25.3			5.36		TAS			m_e		
TNS	79.68	P	08:38:05.031		29.5			5.59		TAS	7.2	1.02	m_e	mb	4.5
UBBA	78.69	P	08:37:59.616		29.5			5.59		TAS	2.7	0.83	m_e	mb	4.3
UBBA	78.69	pP	08:38:12.001		25.3			5.36		TAS			m_e		
WET	79.25	P	08:38:02.289		29.5			5.59		TAS	7.0	0.96	m_e	mb	4.7
WET	79.25	pP	08:38:16.245		25.3			5.36		TAS			m_e		
WET	79.25	sP	08:38:22.507		32.4			6.39		TAS			m_e		

Event 80808004 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/08	09:07:21.73			37.7690	142.6610				19.3					80.81	82.93	m i ke	BGR
OrigID 80808010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	80808010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	80.92		P	09:19:32.901		40.8		4.31		TAS		6.4	0.76	m_e	mb	4.7
CLL	80.95		P	09:19:32.819		40.8		4.31		TAS		11.2	0.90	m_e	mb	4.9
CLZ	81.52		P	09:19:35.843		40.8		4.31		TAS		6.2	0.94	m_e	mb	4.7
FLT1	80.81		P	09:19:31.593		40.8		4.31		TAS		25.9	1.45	m_e	mb	5.1
GEC2	82.61		P	09:19:46.877		40.8		4.31		TAS		4.1	0.78	m_e	mb	4.7
GRA1	82.93		P	09:19:44.003		40.8		4.31		TAS		9.7	0.91	m_e	mb	5.0
GRA1	82.93		pP	09:19:49.583						T__				m_e		
ROTZ	82.48		P	09:19:41.156		40.8		4.31		TAS		6.3	1.69	m_e	mb	4.5

Event 80808006 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/08	11:19:24.37			44.6980	149.2320				45.3				23	75.67	81.22	m i ke	BGR
OrigID 80808012																	

Magnitude	Err	Nsta	Author	OrigID
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mb	4.9	BGR	80808012
Ms	4.6	BGR	80808012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	79.61		P	11:31:27.474	-0.0	26.9		4.69		TAS		14.3	0.99	m_e mb	4.9
BFO	81.22		P	11:31:34.969		26.9		4.69		TAS		7.7	0.99	m_e mb	4.7
BRG	77.22		P	11:31:13.038	-0.1	26.9		4.69		TAS		5.9	0.83	m_e mb	4.8
BSEG	75.67		P	11:31:04.585	-0.3	26.9		4.69		TAS		24.6	1.22	m_e mb	5.2
BUG	78.75		P	11:31:21.832	-0.1	26.9		4.69		TAS		47.1	1.52	m_e mb	5.3
CLL	77.15		P	11:31:12.092	0.1	26.9		4.69		TAS		15.8	0.69	m_e mb	5.3
CLZ	77.49		P	11:31:15.106	0.3	26.9		4.69		TAS		13.9	0.96	m_e mb	5.1
FLT1	76.81		P	11:31:10.541	0.3	26.9		4.69		TAS		9.5	0.77	m_e mb	5.0
FUR	80.44		P	11:31:31.633		26.9		4.69		TAS		25.6	0.50	m_e mb	5.4
GEC2	79.05		P	11:31:23.261		26.9		4.69		TAS		5.6	0.86	m_e mb	4.6
GOR1	76.21		P	11:31:07.333	0.2	26.9		4.69		TAS		90.7	1.62	m_e mb	5.6
GRA1	79.12		P	11:31:24.189		26.9		4.69		TAS		18.2	0.94	m_e mb	5.1
GRA1	79.12		pP	11:31:37.225						T__				m_e	
GRA1	79.12		L	12:05:42.920						T__		284.8	21.40	a_e Ms	4.6
GTTG	77.88		P	11:31:17.053		26.9		4.69		TAS		10.4	0.80	m_e mb	5.0
KAST	78.63		P	11:31:22.051	0.2	26.9		4.69		TAS		12.4	1.09	m_e mb	4.9
MANZ	78.58		P	11:31:20.804		26.9		4.69		TAS		1.2	0.92	m_e mb	3.9
MOX	78.16		P	11:31:18.101		26.9		4.69		TAS		14.0	1.30	m_e mb	4.9
MOX	78.16		L	12:05:15.048						T__		288.2	21.70	a_e Ms	4.6
NEUB	77.64		P	11:31:14.991	-0.3	26.9		4.69		TAS		14.2	0.83	m_e mb	5.1
NRDL	77.00		P	11:31:12.081	0.3	26.9		4.69		TAS		14.3	1.26	m_e mb	5.0
PLN	78.13		P	11:31:18.442	0.3	26.9		4.69		TAS		8.5	1.00	m_e mb	4.8
RETH	77.00		P	11:31:11.731	-0.1	26.9		4.69		TAS		120.2	1.97	m_e mb	5.7
RJOB	80.31		P	11:31:30.903		26.9		4.69		TAS		11.7	0.96	m_e mb	4.8
ROTZ	78.74		P	11:31:22.090		26.9		4.69		TAS		1.9	0.83	m_e mb	4.2
TANN	78.10		P	11:31:18.233	-0.1	26.9		4.69		TAS		7.2	1.06	m_e mb	4.7
TNS	79.50		P	11:31:26.438	-0.0	26.9		4.69		TAS		13.3	1.15	m_e mb	4.9
UBBA	78.51		P	11:31:19.905	0.2	26.9		4.69		TAS		5.1	0.87	m_e mb	4.6
WET	79.06		P	11:31:23.964		26.9		4.69		TAS		15.0	0.99	m_e mb	5.0
WLF	80.66		P	11:31:34.700		26.9		4.69		TAS		8.4	0.92	m_e mb	4.8

Event 80808007 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/08	13:27:04.78			44.4800	148.6150				33.0			18		75.90	81.23	m i ke	BGR
				80808013													

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	80808013
Ms	4.3		BGR	80808013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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BFO	81.23	P	13:39:15.957		29.5	5.49	TAS	4.9	0.89	m_e	mb	4.5
BRG	77.21	P	13:38:54.146	-0.4	29.5	5.49	TAS	4.4	0.62	m_e	mb	4.7
BUG	78.77	P	13:39:03.280		29.5	5.49	TAS	11.6	0.92	m_e	mb	4.9
CLL	77.15	P	13:38:53.687	-0.2	29.5	5.49	TAS	18.9	0.66	m_e	mb	5.4
CLZ	77.51	P	13:38:56.264	0.4	29.5	5.49	TAS	9.0	0.88	m_e	mb	4.9
FLT1	76.82	P	13:38:51.652	-0.0	29.5	5.49	TAS	7.5	0.65	m_e	mb	5.0
GEC2	79.03	P	13:39:03.887		29.5	5.49	TAS	6.1	0.88	m_e	mb	4.6
GRA1	79.12	P	13:39:04.606		29.5	5.49	TAS	13.0	0.68	m_e	mb	5.1
GRA1	79.12	L	14:13:24.042				T__	126.0	21.60	a_e	Ms	4.2
KAST	78.65	P	13:39:02.448	0.6	29.5	5.49	TAS	6.0	0.78	m_e	mb	4.7
MANZ	78.58	P	13:39:01.992		29.5	5.49	TAS	1.2	0.85	m_e	mb	3.9
MOX	78.16	P	13:38:59.537		29.5	5.49	TAS	3.3	0.65	m_e	mb	4.6
MOX	78.16	L	14:17:35.520				T__	154.7	18.00	a_e	Ms	4.4
NEUB	77.64	P	13:38:56.860	-0.4	29.5	5.49	TAS	14.7	0.78	m_e	mb	5.2
PLN	78.13	P	13:38:59.546		29.5	5.49	TAS	5.3	0.84	m_e	mb	4.7
RETH	77.02	P	13:38:53.175	-0.3	29.5	5.49	TAS	6.5	0.86	m_e	mb	4.8
RJOB	80.29	P	13:39:11.173		29.5	5.49	TAS	6.4	0.74	m_e	mb	4.6
ROTZ	78.73	P	13:39:03.027		29.5	5.49	TAS	1.2	0.77	m_e	mb	4.0
RUE	75.90	P	13:38:47.105	0.2	29.5	5.49	TAS	26.2	0.45	m_e	mb	5.7
TANN	78.09	P	13:38:59.582		29.5	5.49	TAS	3.1	0.68	m_e	mb	4.6
WET	79.05	P	13:39:05.010		29.5	5.49	TAS	10.3	0.92	m_e	mb	4.8

Event 80809001 Off coast of central America

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/09	00:26:02.32			12.2940	-89.4560				27.9					87.50	87.52	m i ke	BGR
80809007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	80809007
Ms	4.0		BGR	80809007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	87.52		P	00:38:46.620		276.0		5.60		TAS		3.8	0.99	m_e	mb	4.7
GRA1	87.52		pP	00:38:54.765						T__				m_e		
GRA1	87.52		L	01:15:28.252						T__		106.1	19.40	a_e	Ms	4.3
MOX	87.50		L	01:16:36.752						T__		41.0	21.10	a_e	Ms	3.8

Event 80809003 Sumbawa, Indonesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2018/08/09	05:25:31.90			-8.4200	116.2100				12.0					33	104.20	109.33	m i ke	EMSC
80809035																		





Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	80809013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	81.51		P	14:26:34.638	0.2	30.9		5.47		TAS		6.0	0.84	m_e	mb 4.8
BRG	77.45		P	14:26:12.648	-0.2	30.9		5.47		TAS		4.3	0.70	m_e	mb 4.7
BSEG	76.02		P	14:26:05.089	0.2	30.9		5.47		TAS		24.1	0.82	m_e	mb 5.4
BUG	79.11		P	14:26:21.844	0.0	30.9		5.47		TAS		13.3	0.82	m_e	mb 5.0
CLL	77.40		P	14:26:12.110	-0.5	30.9		5.47		TAS		25.5	0.86	m_e	mb 5.4
CLZ	77.81		P	14:26:15.194	0.4	30.9		5.47		TAS		14.1	0.70	m_e	mb 5.2
FLT1	77.11		P	14:26:10.637	-0.3	30.9		5.47		TAS		21.7	0.93	m_e	mb 5.3
FUR	80.67		P	14:26:30.467	-0.4	30.9		5.47		TAS		15.1	0.75	m_e	mb 5.1
GEC2	79.25		P	14:26:22.593	0.2	30.9		5.47		TAS		4.0	0.69	m_e	mb 4.6
GOR1	76.52		P	14:26:07.723	-0.0	30.9		5.47		TAS		15.5	0.72	m_e	mb 5.2
GRA1	79.38		P	14:26:23.963	0.4	30.9		5.47		TAS		19.2	1.00	m_e	mb 5.1
GTTG	78.19		P	14:26:17.064	0.2	30.9		5.47		TAS		20.1	1.02	m_e	mb 5.2
IBBN	78.20		P	14:26:16.873	0.0	30.9		5.47		TAS		17.9	0.72	m_e	mb 5.3
KAST	78.97		P	14:26:21.328	0.2	30.9		5.47		TAS		8.1	0.87	m_e	mb 4.8
MANZ	78.83		P	14:26:20.637	0.1	30.9		5.47		TAS		1.8	1.18	m_e	mb 4.0
MOX	78.43		P	14:26:18.136	-0.1	30.9		5.47		TAS		5.7	0.65	m_e	mb 4.8
NEUB	77.91		P	14:26:15.615	0.3	30.9		5.47		TAS		14.0	0.73	m_e	mb 5.2
NRDL	77.33		P	14:26:11.896	-0.2	30.9		5.47		TAS		7.7	0.73	m_e	mb 4.9
PLN	78.39		P	14:26:17.824	-0.1	30.9		5.47		TAS		9.5	1.21	m_e	mb 4.8
RETH	77.34		P	14:26:12.093	-0.1	30.9		5.47		TAS		10.8	0.71	m_e	mb 5.1
RGN	74.57		P	14:25:56.820	-0.2	30.9		5.47		TAS		58.2	0.94	m_e	mb 5.6
RJOB	80.51		P	14:26:29.786	-0.9	30.9		5.47		TAS		6.9	0.92	m_e	mb 4.7
ROTZ	78.98		P	14:26:21.571	0.6	30.9		5.47		TAS		1.4	0.75	m_e	mb 4.1
STU	80.85		P	14:26:31.650	-0.0	30.9		5.47		TAS		30.3	0.60	m_e	mb 5.5
TANN	78.34		P	14:26:17.505	-0.2	30.9		5.47		TAS		4.3	0.84	m_e	mb 4.6
TNS	79.82		P	14:26:25.834	0.3	30.9		5.47		TAS		5.7	0.70	m_e	mb 4.6
UBBA	78.81		P	14:26:19.999	-0.2	30.9		5.47		TAS		4.7	0.56	m_e	mb 4.7
UBR	81.49		P	14:26:34.036		30.9		5.47		TAS		6.1	0.91	m_e	mb 4.6
WET	79.28		P	14:26:23.292	-0.1	30.9		5.47		TAS		10.8	0.97	m_e	mb 4.8

Event 80809008 South Atlantic Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/09	16:53:47.24			-32.5600	3.4700				33.0			31		80.09	86.34	m i k e	BGR
OrigID 80809014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	80809014
Ms	4.6		BGR	80809014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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AHRW	82.80	P	17:06:08.925	0.5	186.4	5.15	TAS	39.8	1.15	a_e	mb	5.5
BFO	80.64	P	17:05:56.575	-0.8	186.4	5.15	TAS	27.6	1.13	a_e	mb	5.2
BRG	83.58	P	17:06:12.525	0.1	186.4	5.15	TAS	22.8	1.05	a_e	mb	5.3
BSEG	86.34	P	17:06:25.725	-0.9	186.4	5.15	TAS	40.9	1.00	a_e	mb	5.5
BUG	83.70	P	17:06:12.825	-0.3	186.4	5.15	TAS	26.2	1.12	a_e	mb	5.4
CLL	83.93	P	17:06:14.275	0.1	186.4	5.15	TAS	55.9	1.05	a_e	mb	5.7
CLZ	84.26	P	17:06:15.925	-0.0	186.4	5.15	TAS	26.8	1.10	a_e	mb	5.4
FLT1	84.80	P	17:06:18.025	-0.7	186.4	5.15	TAS	23.1	1.03	a_e	mb	5.3
FUR	80.66	P	17:05:58.249	0.8	186.4	5.15	TAS	56.0	1.13	m_e	mb	5.5
GEC2	81.55	P	17:06:02.075	0.1	186.4	5.15	TAS	25.3	1.20	a_e	mb	5.2
GOR1	85.46	P	17:06:22.075	-0.1	186.4	5.15	TAS	90.2	1.24	a_e	mb	5.9
GRA1	82.18	P	17:06:05.475	0.3	186.4	5.15	TAS	192.5	1.24	a_e	mb	6.1
GRA1	82.18	L	17:40:45.412				T__	252.4	21.40	a_e	Ms	4.6
GTTG	83.94	P	17:06:14.625	0.3	186.4	5.15	TAS	82.1	1.01	a_e	mb	5.9
IBBN	84.59	P	17:06:17.825	0.2	186.4	5.15	TAS	62.9	1.30	a_e	mb	5.7
KAST	83.51	P	17:06:12.225	0.1	186.4	5.15	TAS	35.0	1.16	a_e	mb	5.5
MANZ	82.54	P	17:06:07.025	-0.0	186.4	5.15	TAS	11.7	1.16	m_e	mb	5.0
MOX	83.15	P	17:06:10.025	-0.2	186.4	5.15	TAS	21.3	1.10	a_e	mb	5.3
MOX	83.15	L	17:42:18.884				T__	358.2	20.80	a_e	Ms	4.7
NEUB	83.71	P	17:06:13.175	0.1	186.4	5.15	TAS	73.0	1.04	a_e	mb	5.8
NRDL	84.89	P	17:06:19.725	0.5	186.4	5.15	TAS	57.2	1.14	a_e	mb	5.7
PLN	83.04	P	17:06:09.625	-0.0	186.4	5.15	TAS	45.7	1.22	a_e	mb	5.6
RETH	85.09	P	17:06:20.725	0.5	186.4	5.15	TAS	58.0	1.24	a_e	mb	5.7
RJOB	80.37	P	17:05:55.225	-0.6	186.4	5.15	TAS	11.9	0.88	a_e	mb	4.8
ROTZ	82.33	P	17:06:06.025	0.0	186.4	5.15	TAS	17.8	1.08	a_e	mb	5.1
RUE	85.15	P	17:06:20.325	-0.2	186.4	5.15	TAS	77.3	1.11	a_e	mb	5.8
STU	81.13	P	17:05:59.525	-0.3	186.4	5.15	TAS	126.5	1.15	a_e	mb	5.8
TANN	82.99	P	17:06:09.825	0.4	186.4	5.15	TAS	93.8	1.54	a_e	mb	5.8
TNS	82.54	P	17:06:07.075	0.0	186.4	5.15	TAS	69.9	1.68	a_e	mb	5.6
UBBA	83.21	P	17:06:10.925	0.3	186.4	5.15	TAS	66.4	1.55	a_e	mb	5.6
UBR	80.09	P	17:05:54.266	-0.2	186.4	5.15	TAS	21.4	0.90	m_e	mb	5.1
WET	81.77	P	17:06:03.125	0.0	186.4	5.15	TAS	51.2	1.16	a_e	mb	5.5
WLF	81.89	P	17:06:03.675	-0.1	186.4	5.15	TAS	69.0	1.30	a_e	mb	5.6

Event 80810004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/10	18:12:15.98			49.3170	154.1330				83.0	4.1		32		71.39	78.49	m i ke	BGR
80810010																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.2		BGR	80810010
MBB	6.3		BGR	80810010
Ms	6.3		BGR	80810010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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AHRW	76.60	P	18:24:01.211	0.3	23.9	5.70	TAS	219.5	0.98	m_e	mb	6.2
BFO	78.35	P	18:24:10.839		23.9	5.70	TAS	197.1	0.95	m_e	mb	6.2
BRG	74.54	P	18:23:49.285	0.2	23.9	5.70	TAS	108.4	0.95	m_e	MBB	6.1
BSEG	72.69	P	18:23:39.115	0.1	23.9	5.70	TAS	169.5	0.84	m_e	MBB	6.3
BSEG	72.69	pP	18:24:00.559	-0.5	23.1	5.85	TAS			m_e		
BUG	75.71	P	18:23:56.157	0.2	23.9	5.70	TAS	185.3	0.91	m_e	MBB	6.4
CLL	74.41	P	18:23:48.534	0.4	23.9	5.70	TAS	284.3	0.87	m_e	MBB	6.4
CLZ	74.60	P	18:23:50.363	-0.2	23.9	5.70	TAS	324.1	1.02	m_e	MBB	6.3
FLT1	73.93	P	18:23:45.635	0.1	23.9	5.70	TAS	178.1	0.87	m_e	MBB	6.2
FUR	77.74	P	18:24:07.959	-0.2	23.9	5.70	TAS	324.6	0.97	m_e	mb	6.4
GEC2	76.44	P	18:24:00.432	-0.0	23.9	5.70	TAS	136.6	0.85	m_e	mb	6.1
GOR1	73.32	P	18:23:42.774	-0.5	23.9	5.70	TAS			m_e		
GRA1	76.35	P	18:24:00.262	-0.0	23.9	5.70	TAS	381.1	0.94	m_e	mb	6.5
GRA1	76.35	L	19:01:32.409				T__	17306.1	20.50	a_e	Ms	6.3
GTTG	74.97	P	18:23:52.227	-0.0	23.9	5.70	TAS	150.4	0.92	m_e	MBB	6.2
GTTG	74.97	pP	18:24:14.014		23.1	5.85	TAS			m_e		
IBBN	74.80	P	18:23:51.142	0.2	23.9	5.70	TAS	235.5	0.78	m_e	MBB	6.3
KAST	75.67	P	18:23:56.292	-0.0	23.9	5.70	TAS	211.8	0.88	m_e	MBB	6.4
MANZ	75.85	P	18:23:57.044	0.3	23.9	5.70	TAS	27.6	0.91	m_e	MBB	5.5
MANZ	75.85	pP	18:24:19.740		23.1	5.85	TAS			m_e		
MOX	75.38	P	18:23:54.367	-0.1	23.9	5.70	TAS	147.6	0.95	m_e	MBB	6.2
MOX	75.38	L	19:01:02.297				T__	15183.6	20.30	a_e	Ms	6.3
NEUB	74.83	P	18:23:51.075	-0.0	23.9	5.70	TAS	275.4	1.19	m_e	MBB	6.3
NEUB	74.83	pP	18:24:12.961		23.1	5.85	TAS			m_e		
NRDL	74.07	P	18:23:46.806	-0.3	23.9	5.70	TAS	151.0	0.93	m_e	MBB	6.2
NRDL	74.07	pP	18:24:08.262	0.7	23.1	5.85	TAS			m_e		
PLN	75.38	P	18:23:54.469	0.3	23.9	5.70	TAS	175.8	1.07	m_e	MBB	6.2
RETH	74.02	P	18:23:46.652	-0.1	23.9	5.70	TAS	177.7	0.99	m_e	MBB	6.3
RETH	74.02	pP	18:24:08.170	-0.2	23.1	5.85	TAS			m_e		
RGN	71.39	P	18:23:31.622	-0.1	23.9	5.70	TAS	583.0	0.81	m_e	MBB	6.8
RJOB	77.70	P	18:24:07.993	0.1	23.9	5.70	TAS	176.2	0.85	m_e	mb	6.2
ROTZ	76.02	P	18:23:58.230	0.6	23.9	5.70	TAS	58.4	1.10	m_e	MBB	5.8
ROTZ	76.02	pP	18:24:20.299		23.1	5.85	TAS			m_e		
RUE	73.14	P	18:23:41.521	0.2	23.9	5.70	TAS	323.4	0.92	m_e	MBB	6.6
RUE	73.14	pP	18:24:02.762	-0.2	23.1	5.85	TAS			m_e		
STU	77.72	P	18:24:07.485	-0.5	23.9	5.70	TAS	444.0	0.94	m_e	mb	6.6
STU	77.72	pP	18:24:29.473		23.1	5.85	TAS			m_e		
TANN	75.36	P	18:23:54.300	0.1	23.9	5.70	TAS	63.7	0.87	m_e	MBB	5.9
TANN	75.36	pP	18:24:15.994		23.1	5.85	TAS			m_e		
TNS	76.57	P	18:24:01.265	-0.0	23.9	5.70	TAS	234.3	0.83	m_e	mb	6.3
UBBA	75.63	P	18:23:55.722	-0.0	23.9	5.70	TAS	429.5	1.73	m_e	MBB	6.3
UBR	78.49	P	18:24:11.923		23.9	5.70	TAS	144.7	1.03	m_e	mb	6.0
WET	76.40	P	18:24:00.804	0.1	23.9	5.70	TAS	279.6	0.93	m_e	mb	6.4
WET	76.40	pP	18:24:22.512		23.1	5.85	TAS			m_e		
WLF	77.63	P	18:24:07.106	-0.3	23.9	5.70	TAS	71.0	0.88	m_e	mb	5.8

Event 80811002 Austria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/11	03:30:42.14	0.27	1.32	46.3400	13.1060	5.6	4.4	7	10.0				46 207	0.76	6.39	m i ke	BGR
80811008																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.2		BGR	80811008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABH	5.14		Pn	03:31:57.543	0.2					T__				m_e	
AHRW	5.81		Pn	03:32:06.929	0.6					T__				m_e	
ARSA	1.89		Pn	03:31:13.714	0.1					T__				m_e ML	3.2
BALST	3.85		Pn	03:31:39.508	-0.4					T__				m_e ML	4.1
BFO	3.81		Sn	03:32:21.384	0.6					T__				m_e	
BFO	3.81		Pn	03:31:39.107	-0.3					T__				m_e ML	4.2
BRG	4.57		Pn	03:31:49.512	-0.1					T__				m_e ML	4.1
BUG	6.39		Pn	03:32:15.268	1.1					T__				m_e ML	4.4
CLL	4.97		Sn	03:32:51.223	3.3					T__				m_e	
CLL	4.97		Sg	03:33:17.447	-2.4					T__				m_e	
CLL	4.97		Pn	03:31:54.971	-0.1					T__				m_e ML	4.4
CLZ	5.79		Pn	03:32:07.541	1.4					T__				m_e ML	4.5
DAVA	2.41		Pn	03:31:21.138	0.6					T__				m_e ML	4.1
ECH	4.46		Pn	03:31:47.619	-0.6					T__				m_e ML	4.0
EMING	3.30		Pn	03:31:32.293	-0.2					T__				m_e ML	4.1
FUR	2.21		Pn	03:31:17.920	0.1					T__				m_e ML	4.2
GEC2	2.54		Pn	03:31:22.347	0.1					T__				m_e ML	3.9
GRA1	3.58		Sn	03:32:16.985	1.4					T__				m_e	
GRA1	3.58		Sg	03:32:35.372	-0.5					T__				m_e	
GRA1	3.58		Pn	03:31:35.596	-0.8					T__				m_e ML	4.6
GRFO	3.58		Pn	03:31:35.905	-0.4					T__				m_e	
HROE	4.64		Pn	03:31:49.877	-0.6					T__				m_e ML	4.5
KAST	5.77		Pn	03:32:06.444	0.7					T__				m_e ML	4.1
KBA	0.76		Sg	03:31:04.892	-1.4					T__				m_e	
KBA	0.76		Pg	03:30:54.448	-2.0					T__				m_e ML	3.6
MANZ	3.71		Sn	03:32:19.542	1.1					T__				m_e	
MANZ	3.71		Pn	03:31:37.129	-0.9					T__				m_e ML	4.2
METMA	3.59		Pn	03:31:35.835	-0.6					T__				m_e ML	3.8
MILB	4.33		Pn	03:31:46.056	-0.3					T__				m_e ML	4.7
MOA	1.71		Sn	03:31:35.566	3.9					T__				m_e	
MOA	1.71		Pn	03:31:11.922	0.9					T__				m_e ML	3.6
MOX	4.42		Sn	03:32:36.093	1.0					T__				m_e	
MOX	4.42		Pn	03:31:47.001	-0.6					T__				m_e ML	4.6
NEUB	4.94		Pn	03:31:54.369	-0.2					T__				m_e ML	4.6
NORI	2.91		Sn	03:32:01.447	1.6					T__				m_e	
NORI	2.91		Pn	03:31:26.807	-0.5					T__				m_e ML	4.2
OBKA	1.01		Sg	03:31:13.891	-0.5					T__				m_e	
OBKA	1.01		Pn	03:30:59.227	-2.5					T__				m_e ML	3.5
OBKA	1.01		Pg	03:31:01.682	0.4					T__				m_e	

PART	1.79	Sg	03:31:38.372	-0.6	T__	m_e ML	3.8
PLONS	2.66	Pn	03:31:24.491	0.6	T__	m_e ML	3.6
POSS	5.21	Pn	03:31:57.486	-0.8	T__	m_e ML	4.6
RJOB	1.41	Sn	03:31:25.311	0.5	T__	m_e	
RJOB	1.41	Pn	03:31:06.142	-0.9	T__	m_e ML	3.7
ROTT	4.36	Pn	03:31:47.118	0.4	T__	m_e	
ROTZ	3.48	Sn	03:32:13.818	0.7	T__	m_e	
ROTZ	3.48	Sg	03:32:30.269	-2.3	T__	m_e	
ROTZ	3.48	Pn	03:31:34.167	-0.8	T__	m_e ML	4.2
ROTZ	3.48	Pg	03:31:44.305	-3.4	T__	m_e	
SLE	3.46	Pn	03:31:34.240	-0.5	T__	m_e ML	4.7
SPAHL	4.81	Pn	03:31:54.906	2.0	T__	m_e ML	4.3
STU	3.60	Sg	03:32:36.594	0.4	T__	m_e	
STU	3.60	Pn	03:31:36.327	-0.2	T__	m_e ML	4.6
SULZ	3.62	Pn	03:31:36.619	-0.2	T__	m_e ML	4.5
TNS	4.98	Sn	03:32:50.352	2.3	T__	m_e	
TNS	4.98	Sg	03:33:20.737	0.8	T__	m_e	
TNS	4.98	Pn	03:31:56.495	1.4	T__	m_e ML	4.3
UBBA	4.93	Pn	03:31:55.978	1.4	T__	m_e ML	4.1
UBR	2.45	Pn	03:31:21.468	0.4	T__	m_e ML	4.3
WALHA	3.07	Pn	03:31:29.331	-0.1	T__	m_e ML	4.1
WET	2.81	Sn	03:31:59.224	1.8	T__	m_e	
WET	2.81	Pn	03:31:25.673	-0.2	T__	m_e ML	4.0
WILA	3.07	Pn	03:31:29.585	0.1	T__	m_e ML	4.2
WIMM	5.29	Pn	03:31:58.276	-1.1	T__	m_e ML	4.1
WLF	5.73	Pn	03:32:06.741	1.5	T__	m_e ML	4.3
WTTA	1.37	Sg	03:31:22.213	-3.4	T__	m_e	
WTTA	1.37	Pn	03:31:05.057	-1.4	T__	m_e ML	4.0
WTTA	1.37	Pg	03:31:06.509	-1.4	T__	m_e	

Event 80811003 Norwegian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/11	05:55:02.09			71.1880	0.6130				10.0			26		17.84	24.22	m i ke	BGR
80811009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	80811009
Ms	4.3		BGR	80811009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	20.93		P	05:59:40.292	1.3	350.9		10.64		TAS		100.1	0.84	m_e mb	5.2
BFO	23.22		P	06:00:04.204		350.9		10.64		TAS		92.5	1.05	m_e mb	5.2
BRG	21.28		P	05:59:44.796	0.6	350.9		10.64		TAS		59.1	1.21	m_e mb	4.8
BSEG	17.84		P	05:59:07.749	-0.8	350.9		10.64		TAS		40.3	0.82	m_e mb	4.6
BUG	20.05		P	05:59:30.677	-0.1	350.9		10.64		TAS		148.4	1.03	m_e mb	5.2

CLL	20.73	P	05:59:38.925	0.1	350.9	10.64	TAS	161.6	1.38	m_e	mb	5.2
CLZ	19.91	P	05:59:30.133	0.3	350.9	10.64	TAS	58.7	0.82	m_e	mb	4.9
FLT1	19.52	P	05:59:25.897	0.1	350.9	10.64	TAS			m_e		
GEC2	23.24	P	06:00:05.414		350.9	10.64	TAS			m_e		
GOR1	18.88	P	05:59:19.330	-0.7	350.9	10.64	TAS	649.3	1.73	m_e	mb	5.6
GRA1	22.12	P	05:59:54.440	-1.5	350.9	10.64	TAS			m_e		
GRA1	22.12	L	06:08:27.999				T__	1271.0	21.90	a_e	Ms	4.3
IBBN	19.22	P	05:59:21.584	-0.2	350.9	10.64	TAS	91.2	1.08	m_e	mb	4.9
KAST	20.37	P	05:59:34.806	-0.2	350.9	10.64	TAS			m_e		
MANZ	21.93	P	05:59:51.671	-1.1	350.9	10.64	TAS	39.8	1.53	m_e	mb	4.6
MOX	21.22	P	05:59:44.058	-0.0	350.9	10.64	TAS			m_e		
MOX	21.22	L	06:08:11.867				T__	1173.5	21.40	a_e	Ms	4.2
NEUB	20.70	P	05:59:38.614	0.8	350.9	10.64	TAS			m_e		
NRDL	19.24	P	05:59:22.944	-0.2	350.9	10.64	TAS	149.7	1.20	m_e	mb	5.1
PLN	21.44	P	05:59:46.775	0.4	350.9	10.64	TAS			m_e		
RETH	18.93	P	05:59:18.902	-0.2	350.9	10.64	TAS	254.8	1.70	m_e	mb	5.2
RJOB	24.22	P	06:00:14.597		350.9	10.64	TAS	31.7	0.83	m_e	mb	4.9
ROTZ	22.16	P	05:59:55.144		350.9	10.64	TAS	16.0	1.20	m_e	mb	4.3
TNS	21.35	P	05:59:45.026	1.1	350.9	10.64	TAS	36.5	0.69	m_e	mb	4.8
UBBA	20.89	P	05:59:40.486	0.3	350.9	10.64	TAS	186.0	1.34	m_e	mb	5.2
UBR	24.01	P	06:00:12.569		350.9	10.64	TAS	36.8	0.80	m_e	mb	5.0
WET	22.85	P	06:00:01.746		350.9	10.64	TAS			m_e		
WLF	21.75	P	05:59:48.728	0.2	350.9	10.64	TAS			m_e		

Event 80811004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/11	09:45:54.69			-20.2500	-176.1200			232.4		9.4		28		146.01	152.17	m i ke	BGR
80811010																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.67		pPKPbc	10:06:14.968		15.2		3.68		TAS				m_e	
BFO	151.76		PKPbc	10:05:21.411		13.7		2.56		TAS				m_e	
BFO	151.76		PKPab	10:05:30.645		13.4		3.93		TAS				m_e	
BFO	151.76		pPKPbc	10:06:19.948		15.2		3.68		TAS				m_e	
BRG	148.43		PKPbc	10:05:13.064	0.5	13.7		2.56		TAS				m_e	
BRG	148.43		PKPab	10:05:17.220		13.4		3.93		TAS				m_e	
BRG	148.43		pPKPbc	10:06:12.363		15.2		3.68		TAS				m_e	
BSEG	146.01		PKPbc	10:05:06.452	0.0	13.7		2.56		TAS				m_e	
BSEG	146.01		pPKPbc	10:06:05.589		15.2		3.68		TAS				m_e	
BUG	148.76		pPKPbc	10:06:12.881		15.2		3.68		TAS				m_e	
CLL	148.19		PKPbc	10:05:12.357	0.5	13.7		2.56		TAS				m_e	
CLL	148.19		PKPab	10:05:16.329	0.5	13.4		3.93		TAS				m_e	
CLL	148.19		pPKPbc	10:06:11.447		15.2		3.68		TAS				m_e	

CLZ	148.06	PKPbc	10:05:12.136	0.2	13.7	2.56	TAS	m_e
CLZ	148.06	PKPab	10:05:16.230	-0.1	13.4	3.93	TAS	m_e
CLZ	148.06	pPKPbc	10:06:11.129		15.2	3.68	TAS	m_e
FLT1	147.47	PKPbc	10:05:10.175	-0.1	13.7	2.56	TAS	m_e
FLT1	147.47	PKPab	10:05:13.687	-0.5	13.4	3.93	TAS	m_e
FLT1	147.47	pPKPbc	10:06:09.357		15.2	3.68	TAS	m_e
FUR	151.52	pPKPbc	10:06:19.722		15.2	3.68	TAS	m_e
GEC2	150.40	PKPbc	10:05:18.378		13.7	2.56	TAS	m_e
GEC2	150.40	pPKPbc	10:06:16.632		15.2	3.68	TAS	m_e
GOR1	146.82	PKPbc	10:05:09.051	-0.4	13.7	2.56	TAS	m_e
GOR1	146.82	PKPab	10:05:11.196	0.1	13.4	3.93	TAS	m_e
GOR1	146.82	pPKPbc	10:06:07.911		15.2	3.68	TAS	m_e
GRA1	150.04	PKPbc	10:05:17.721		13.7	2.56	TAS	m_e
GRA1	150.04	pPKPbc	10:06:15.888		15.2	3.68	TAS	m_e
IBBN	147.86	PKPab	10:05:15.684	-0.3	13.4	3.93	TAS	m_e
IBBN	147.86	pPKPbc	10:06:10.622		15.2	3.68	TAS	m_e
KAST	148.91	pPKPbc	10:06:13.108		15.2	3.68	TAS	m_e
MANZ	149.62	PKPbc	10:05:16.549		13.7	2.56	TAS	m_e
MANZ	149.62	pPKPbc	10:06:14.899		15.2	3.68	TAS	m_e
MOX	149.06	PKPbc	10:05:14.715	0.1	13.7	2.56	TAS	m_e
MOX	149.06	PKPab	10:05:19.386		13.4	3.93	TAS	m_e
MOX	149.06	pPKPbc	10:06:13.468		15.2	3.68	TAS	m_e
NEUB	148.50	PKPbc	10:05:13.303	0.3	13.7	2.56	TAS	m_e
NEUB	148.50	pPKPbc	10:06:12.925		15.2	3.68	TAS	m_e
NRDL	147.46	PKPab	10:05:13.521	0.3	13.4	3.93	TAS	m_e
NRDL	147.46	pPKPbc	10:06:09.299		15.2	3.68	TAS	m_e
PLN	149.12	PKPbc	10:05:15.009	-0.9	13.7	2.56	TAS	m_e
PLN	149.12	PKPab	10:05:20.099		13.4	3.93	TAS	m_e
PLN	149.12	pPKPbc	10:06:13.679		15.2	3.68	TAS	m_e
RJOB	151.64	PKPbc	10:05:20.466		13.7	2.56	TAS	m_e
ROTZ	149.81	PKPbc	10:05:16.857		13.7	2.56	TAS	m_e
ROTZ	149.81	pPKPbc	10:06:15.395		15.2	3.68	TAS	m_e
RUE	146.93	PKPbc	10:05:09.291	-0.1	13.7	2.56	TAS	m_e
RUE	146.93	pPKPbc	10:06:08.247		15.2	3.68	TAS	m_e
TANN	149.14	PKPbc	10:05:15.245	-0.2	13.7	2.56	TAS	m_e
TANN	149.14	PKPab	10:05:20.160		13.4	3.93	TAS	m_e
TANN	149.14	pPKPbc	10:06:14.254		15.2	3.68	TAS	m_e
TNS	149.87	PKPbc	10:05:16.862		13.7	2.56	TAS	m_e
TNS	149.87	PKPab	10:05:23.432		13.4	3.93	TAS	m_e
TNS	149.87	pPKPbc	10:06:15.810		15.2	3.68	TAS	m_e
UBBA	149.11	pPKPbc	10:06:13.881		15.2	3.68	TAS	m_e
UBR	152.17	PKPbc	10:05:22.392		13.7	2.56	TAS	m_e
UBR	152.17	pPKPbc	10:06:20.444		15.2	3.68	TAS	m_e
WET	150.28	PKPbc	10:05:17.926		13.7	2.56	TAS	m_e
WET	150.28	PKPab	10:05:25.324		13.4	3.93	TAS	m_e
WET	150.28	pPKPbc	10:06:16.346		15.2	3.68	TAS	m_e
WLF	150.59	PKPbc	10:05:19.254		13.7	2.56	TAS	m_e
WLF	150.59	PKPab	10:05:25.968		13.4	3.93	TAS	m_e
WLF	150.59	pPKPbc	10:06:17.563		15.2	3.68	TAS	m_e

Event 80811005 Greece-Albania border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/11	15:38:26.05	0.76	1.17	40.7650	20.6820	21.1	15.6	55	10.0			49	332	7.26	14.55	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
ML	5.8		BGR	80811011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABH	12.97		Pn	15:41:26.355	-0.2					T__				m_e	
AHRW	13.62		Pn	15:41:35.760	0.5					T__				m_e	
ARSA	7.47		Sn	15:41:29.067	-1.2					T__				m_e	
ARSA	7.47		Pn	15:40:11.942	-0.7					T__				m_e	
BALST	11.41		Pn	15:41:05.643	-0.0					T__				m_e	
BFO	11.60		Pn	15:41:07.076	-1.1					T__				m_e	
BODE	12.62		Pn	15:41:22.174	0.4					T__				m_e	
BRG	11.14		Pn	15:41:02.353	0.3					T__				m_e	
BUG	14.14		Pn	15:41:41.700	-0.5					T__				m_e	
CLL	11.81		Pn	15:41:11.422	0.5					T__				m_e	
CLZ	13.16		Pn	15:41:33.957	4.9					T__				m_e	
DAVA	10.14		Sn	15:42:33.488	0.9					T__				m_e	
DAVA	10.14		Pn	15:40:49.049	0.5					T__				m_e	
ECH	12.18		Pn	15:41:14.708	-1.3					T__				m_e	
EMING	11.07		Pn	15:41:00.052	-1.0					T__				m_e	
FUR	9.99		Pn	15:40:46.511	-0.0					T__				m_e	
GEC2	9.48		Pn	15:40:40.066	0.4					T__				m_e	
GRA1	11.13		Pn	15:41:00.501	-1.4					T__				m_e	
GRFO	11.13		Pn	15:41:00.481	-1.4					T__				m_e	
GTTG	13.08		Pn	15:41:28.401	0.4					T__				m_e	
IBBN	14.55		Pn	15:41:49.945	2.3					T__				m_e	
KAST	13.46		Pn	15:41:33.051	-0.0					T__				m_e	
KBA	8.24		Pn	15:40:22.887	-0.1					T__				m_e	ML 5.8
KTD	12.34		Pn	15:41:18.501	0.5					T__				m_e	
MANZ	11.01		Pn	15:40:59.200	-1.0					T__				m_e	
METMA	11.29		Pn	15:41:02.867	-1.2					T__				m_e	
MILB	12.09		Pn	15:41:14.745	0.0					T__				m_e	
MOA	8.44		Sn	15:41:52.178	-0.8					T__				m_e	
MOA	8.44		Pn	15:40:26.487	0.8					T__				m_e	ML 5.7
MOX	11.73		Pn	15:41:08.876	-1.0					T__				m_e	
NEUB	12.12		Pn	15:41:15.841	0.7					T__				m_e	
NORI	10.69		Pn	15:40:54.912	-1.0					T__				m_e	
NRDL	13.78		Pn	15:41:39.188	1.8					T__				m_e	
OBKA	7.26		Pn	15:40:09.177	-0.7					T__				m_e	
PLN	11.40		Pn	15:41:04.607	-0.8					T__				m_e	

PLONS	10.29	Pn	15:40:51.372	0.8	T__	m_e		
RIVT	13.25	Pn	15:41:32.053	1.7	T__	m_e		
RJOB	8.97	Pn	15:40:34.145	1.3	T__	m_e	ML	5.8
ROTT	12.18	Pn	15:41:16.509	0.5	T__	m_e		
ROTZ	10.79	Pn	15:40:55.911	-1.4	T__	m_e		
SLE	11.19	Pn	15:41:01.434	-1.2	T__	m_e		
STU	11.42	Pn	15:41:05.279	-0.5	T__	m_e		
SULZ	11.27	Pn	15:41:03.427	-0.3	T__	m_e		
TANN	11.23	Pn	15:41:02.629	-0.6	T__	m_e		
TNS	12.75	Pn	15:41:23.591	-0.1	T__	m_e		
UBBA	12.50	Pn	15:41:18.661	-1.6	T__	m_e		
UBR	10.26	Pn	15:40:49.796	-0.4	T__	m_e		
WALHA	10.83	Pn	15:40:57.342	-0.5	T__	m_e		
WET	10.03	Pn	15:40:46.504	-0.6	T__	m_e		
WILA	10.76	Pn	15:40:56.490	-0.4	T__	m_e		
WLF	13.55	Pn	15:41:36.838	2.6	T__	m_e		
WTTA	9.20	Sn	15:42:11.649	1.1	T__	m_e		
WTTA	9.20	Pn	15:40:36.275	0.4	T__	m_e		

Event 80812003 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/12	14:58:52.58			69.3000	-146.6600				13.8	0.8		31		55.93	62.30	m i ke	BGR
80812009																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	80812009
MBB	6.5		BGR	80812009
Ms	6.2		BGR	80812009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	58.92	P		15:08:52.419	-0.2	350.6		6.97		TAS		606.8	1.89	m_e	MBB 6.6
AHRW	58.92	pP		15:08:56.143						T__				m_e	
BFO	61.25	P		15:09:08.090	-0.1	350.6		6.97		TAS		201.2	1.43	m_e	MBB 6.3
BRG	59.30	P		15:08:54.479	0.2	350.6		6.97		TAS		319.0	1.75	m_e	MBB 6.5
BRG	59.30	pP		15:08:58.464						T__				m_e	
BSEG	55.93	P		15:08:30.855	0.8	350.6		6.97		TAS		201.7	1.14	m_e	MBB 6.5
BUG	58.06	P		15:08:45.777	-0.1	350.6		6.97		TAS		233.9	1.32	m_e	MBB 6.6
CLL	58.78	P		15:08:50.801	-0.1	350.6		6.97		TAS		89.3	0.88	m_e	MBB 6.5
CLZ	58.00	P		15:08:45.553	-0.1	350.6		6.97		TAS		111.1	0.79	m_e	MBB 6.6
FLT1	57.60	P		15:08:42.042	-0.3	350.6		6.97		TAS		72.3	1.29	m_e	MBB 6.5
FUR	61.73	P		15:09:11.749		350.6		6.97		TAS		118.9	0.96	m_e	MBB 6.7
FUR	61.73	pP		15:09:15.333						T__				m_e	
GEC2	61.29	P		15:09:08.715	-0.0	350.6		6.97		TAS		398.6	1.65	m_e	MBB 6.4
GEC2	61.29	pP		15:09:12.655						T__				m_e	
GOR1	56.96	P		15:08:39.798	-0.5	350.6		6.97		TAS		1066.2	2.25	m_e	MBB 6.8

GRA1	60.21	P	15:09:01.325	0.1	350.6	6.97	TAS	253.1	1.63	m_e	mb	6.0
GRA1	60.21	L	15:40:00.556				T__	19936.9	20.40	a_e	Ms	6.2
GTTG	58.25	P	15:08:47.677	-0.4	350.6	6.97	TAS	137.3	0.91	m_e	MBB	6.6
IBBN	57.26	P	15:08:40.232	-1.1	350.6	6.97	TAS	361.5	1.28	m_e	MBB	6.8
KAST	58.42	P	15:08:48.633	0.3	350.6	6.97	TAS	185.4	1.56	m_e	MBB	6.5
KAST	58.42	pP	15:08:52.305				T__			m_e		
MANZ	60.01	P	15:08:59.554	0.1	350.6	6.97	TAS	141.4	2.72	m_e	MBB	5.8
MOX	59.31	P	15:08:54.791	-0.1	350.6	6.97	TAS	228.8	1.62	m_e	MBB	6.5
MOX	59.31	L	15:40:08.672				T__	15949.0	22.00	a_e	Ms	6.1
NEUB	58.78	P	15:08:51.176	-0.3	350.6	6.97	TAS	151.8	0.98	m_e	MBB	6.6
NRDL	57.33	P	15:08:42.173	0.3	350.6	6.97	TAS	93.5	0.95	m_e	MBB	6.6
PLN	59.52	P	15:08:56.264	-0.2	350.6	6.97	TAS	242.8	1.54	m_e	MBB	6.6
RETH	57.01	P	15:08:39.893	0.9	350.6	6.97	TAS	28172.2	8.51	m_e	MBB	6.6
RJOB	62.30	P	15:09:15.566		350.6	6.97	TAS	107.8	0.80	m_e	MBB	6.6
RJOB	62.30	pP	15:09:19.527				T__			m_e		
ROTZ	60.23	P	15:09:01.165	-0.1	350.6	6.97	TAS	73.1	2.15	m_e	MBB	5.9
RUE	57.69	P	15:08:43.813	-0.4	350.6	6.97	TAS	173.7	1.01	m_e	MBB	6.8
STU	60.91	P	15:09:06.068	0.2	350.6	6.97	TAS	220.1	1.10	m_e	MBB	6.7
TANN	59.62	P	15:08:57.246	0.1	350.6	6.97	TAS	188.3	1.48	m_e	MBB	6.6
TNS	59.39	P	15:08:55.461	0.3	350.6	6.97	TAS	294.5	1.59	m_e	MBB	6.5
UBBA	58.97	P	15:08:52.305	-0.0	350.6	6.97	TAS	398.9	2.06	m_e	MBB	6.5
UBR	62.08	P	15:09:14.013		350.6	6.97	TAS	273.5	1.66	m_e	MBB	6.8
WET	60.91	P	15:09:06.093	0.1	350.6	6.97	TAS	227.7	1.40	m_e	MBB	6.4
WLF	59.67	P	15:08:57.511	-0.1	350.6	6.97	TAS	121.4	0.87	m_e	mb	5.9
WLF	59.67	pP	15:09:01.364				T__			m_e		

Event 80812004 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/12	16:02:16.58			70.5000	-145.5000				12.1	1.4		27		55.74	61.03	m i ke	BGR
	80812010																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	80812010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	57.65		P	16:12:05.597	-0.1	351.3		7.02		TAS		44.7	1.30	m_e	mb	5.3
BFO	59.97		P	16:12:21.313		351.3		7.02		TAS		24.6	1.06	m_e	mb	5.2
BRG	58.03		P	16:12:07.996	0.1	351.3		7.02		TAS		24.9	0.89	m_e	mb	5.2
BUG	56.79		P	16:11:59.276	-0.2	351.3		7.02		TAS		26.3	0.76	m_e	mb	5.3
CLL	57.51		P	16:12:04.184	-0.2	351.3		7.02		TAS		29.3	0.74	m_e	mb	5.4
CLZ	56.73		P	16:11:59.436	-0.1	351.3		7.02		TAS		37.3	0.68	m_e	mb	5.5
FLT1	56.33		P	16:11:55.557	-0.3	351.3		7.02		TAS		16.7	0.66	m_e	mb	5.2
GEC2	60.02		P	16:12:22.252		351.3		7.02		TAS		24.7	0.88	m_e	mb	5.2
GRA1	58.94		P	16:12:15.420	-0.4	351.3		7.02		TAS		7.0	0.83	m_e	mb	4.7
GTTG	56.98		P	16:12:01.297	-0.0	351.3		7.02		TAS		47.2	0.76	m_e	mb	5.6



Station	Mag	Type	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
IBBN	55.99	P	16:11:53.974	-0.1	351.3					7.02	TAS	51.0	0.67	m_e	mb			5.7	
KAST	57.15	P	16:12:02.066	0.2	351.3					7.02	TAS	14.2	0.81	m_e	mb			5.0	
KAST	57.15	pP	16:12:05.506								T__							m_e	
MANZ	58.74	P	16:12:13.107	0.2	351.3					7.02	TAS	3.1	1.04	m_e	mb			4.3	
MOX	58.04	P	16:12:08.075	-0.1	351.3					7.02	TAS	16.5	0.68	m_e	mb			5.2	
NEUB	57.51	P	16:12:04.500	-0.1	351.3					7.02	TAS	44.7	0.87	m_e	mb			5.5	
NRDL	56.06	P	16:11:54.135	0.3	351.3					7.02	TAS	27.2	0.90	m_e	mb			5.3	
PLN	58.25	P	16:12:09.644	0.5	351.3					7.02	TAS	37.8	1.32	m_e	mb			5.3	
RETH	55.74	P	16:11:52.057	-0.8	351.3					7.02	TAS	9.1	0.85	m_e	mb			4.8	
RJOB	61.03	P	16:12:29.348		351.3					7.02	TAS	27.7	0.77	m_e	mb			5.2	
RJOB	61.03	pP	16:12:32.325								T__							m_e	
ROTZ	58.96	P	16:12:14.631	-0.5	351.3					7.02	TAS	2.7	0.83	m_e	mb			4.3	
RUE	56.42	P	16:11:57.279	0.4	351.3					7.02	TAS	48.4	0.97	m_e	mb			5.5	
TANN	58.35	P	16:12:10.475	0.8	351.3					7.02	TAS	18.8	0.96	m_e	mb			5.1	
TNS	58.12	P	16:12:08.836	0.1	351.3					7.02	TAS	16.3	0.77	m_e	mb			5.1	
UBBA	57.70	P	16:12:05.696	-0.0	351.3					7.02	TAS	21.6	0.74	m_e	mb			5.3	
UBBA	57.70	pP	16:12:09.244								T__							m_e	
UBR	60.81	P	16:12:27.409		351.3					7.02	TAS	13.6	0.81	m_e	mb			4.8	
UBR	60.81	pP	16:12:30.846								T__							m_e	
WET	59.64	P	16:12:19.653		351.3					7.02	TAS	24.6	1.13	m_e	mb			5.1	
WLF	58.40	P	16:12:11.086	0.1	351.3					7.02	TAS	31.3	0.82	m_e	mb			5.4	

Event 80812005 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/12	21:15:15.76			70.7840	-145.1950				13.5	1.1		31		54.35	60.73	m i ke	BGR
OrigID 80812011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	80812011
MBB	6.0		BGR	80812011
Ms	5.6		BGR	80812011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	57.35		P	21:24:58.533	-0.2	351.1		6.99		TAS		90.6	0.85	m_e	MBB 6.2
AHRW	57.35		pP	21:25:02.296	-0.2	351.3		7.03		TAS		124.2	1.04	m_e	
BFO	59.67		P	21:25:14.325	-0.3	351.1		6.99		TAS		56.1	0.99	m_e	MBB 6.0
BFO	59.67		pP	21:25:18.368		351.3		7.03		TAS		104.5	1.19	m_e	
BRG	57.73		P	21:25:01.202	-0.1	351.1		6.99		TAS		49.1	0.83	m_e	MBB 6.0
BRG	57.73		pP	21:25:04.949	-0.0	351.3		7.03		TAS		75.3	0.95	m_e	
BSEG	54.35		P	21:24:37.461	-0.0	351.1		6.99		TAS		450.7	2.18	m_e	mb 6.1
BUG	56.49		P	21:24:52.183	-0.1	351.1		6.99		TAS		86.6	0.77	m_e	MBB 6.1
BUG	56.49		pP	21:24:55.932	0.1	351.3		7.03		TAS		112.9	0.86	m_e	
CLL	57.21		P	21:24:57.304	0.1	351.1		6.99		TAS		60.8	0.81	m_e	MBB 5.9
CLL	57.21		pP	21:25:01.021	-0.2	351.3		7.03		TAS		86.5	0.94	m_e	
CLZ	56.43		P	21:24:52.481	0.0	351.1		6.99		TAS		167.3	0.97	m_e	MBB 6.2

CLZ	56.43	pP	21:24:56.102	-0.1	351.3	7.03	TAS			m_e		
FLT1	56.03	P	21:24:48.833	0.3	351.1	6.99	TAS	64.9	1.04	m_e	MBB	5.9
FLT1	56.03	pP	21:24:52.494	-0.2	351.3	7.03	TAS			m_e		
FUR	60.16	P	21:25:18.142		351.1	6.99	TAS	115.6	0.88	m_e	MBB	6.2
FUR	60.16	pP	21:25:21.843		351.3	7.03	TAS	182.1	1.06	m_e		
GEC2	59.71	P	21:25:15.383	-0.0	351.1	6.99	TAS	47.2	0.83	m_e	MBB	6.0
GEC2	59.71	pP	21:25:19.027	-0.1	351.3	7.03	TAS	82.4	0.99	m_e		
GOR1	55.38	P	21:24:45.095	0.1	351.1	6.99	TAS	211.7	1.35	m_e	MBB	6.4
GOR1	55.38	pP	21:24:48.624	0.4	351.3	7.03	TAS			m_e		
GRA1	58.64	P	21:25:07.930	0.3	351.1	6.99	TAS		1.47	m_e		
GRA1	58.64	pP	21:25:11.587	-0.2	351.3	7.03	TAS	100.2	1.13	m_e		
GRA1	58.64	L	21:52:37.287				T__	4501.4	21.50	a_e	Ms	5.6
GTTG	56.68	P	21:24:54.499	-0.3	351.1	6.99	TAS	341.7	1.12	m_e	MBB	6.3
GTTG	56.68	pP	21:24:57.997	-0.2	351.3	7.03	TAS	142.6	0.93	m_e		
IBBN	55.69	P	21:24:46.973	-0.6	351.1	6.99	TAS	247.3	1.05	m_e	MBB	6.4
IBBN	55.69	pP	21:24:50.758	0.3	351.3	7.03	TAS			m_e		
KAST	56.85	P	21:24:55.062	0.1	351.1	6.99	TAS	67.5	0.92	m_e	MBB	6.0
KAST	56.85	pP	21:24:58.742	-0.1	351.3	7.03	TAS	87.9	0.97	m_e		
MANZ	58.43	P	21:25:06.104	0.4	351.1	6.99	TAS	13.4	1.04	m_e	MBB	5.3
MANZ	58.43	pP	21:25:09.762	0.5	351.3	7.03	TAS	12.7	1.09	m_e		
MOX	57.73	P	21:25:01.158	0.1	351.1	6.99	TAS	36.3	0.78	m_e	MBB	6.0
MOX	57.73	pP	21:25:04.974	0.1	351.3	7.03	TAS	62.5	0.98	m_e		
MOX	57.73	L	21:59:33.647				T__	5390.7	18.50	a_e	Ms	5.7
NEUB	57.21	P	21:24:57.571	-0.3	351.1	6.99	TAS	123.4	0.87	m_e	MBB	6.1
NEUB	57.21	pP	21:25:01.109	0.1	351.3	7.03	TAS	141.1	0.95	m_e		
NRDL	55.75	P	21:24:47.409	0.4	351.1	6.99	TAS	128.9	1.01	m_e	MBB	6.1
NRDL	55.75	pP	21:24:51.024	-0.6	351.3	7.03	TAS			m_e		
PLN	57.94	P	21:25:02.715	-0.1	351.1	6.99	TAS		0.78	m_e		
PLN	57.94	pP	21:25:06.503	0.1	351.3	7.03	TAS	73.7	1.01	m_e		
RETH	55.44	P	21:24:45.228	-0.1	351.1	6.99	TAS	98.8	1.23	m_e	MBB	6.1
RETH	55.44	pP	21:24:48.823	0.1	351.3	7.03	TAS			m_e		
RJOB	60.73	P	21:25:22.236		351.1	6.99	TAS	67.8	0.84	m_e	MBB	5.8
RJOB	60.73	pP	21:25:25.990		351.3	7.03	TAS			m_e		
ROTZ	58.66	P	21:25:07.603	-0.4	351.1	6.99	TAS	5.3	0.81	m_e	MBB	5.4
ROTZ	58.66	pP	21:25:11.618	0.1	351.3	7.03	TAS	9.8	0.99	m_e		
RUE	56.12	P	21:24:50.313	-0.2	351.1	6.99	TAS	190.1	1.11	m_e	MBB	6.3
RUE	56.12	pP	21:24:53.907	0.2	351.3	7.03	TAS			m_e		
STU	59.33	P	21:25:12.847	0.3	351.1	6.99	TAS	87.2	0.63	m_e	MBB	6.4
STU	59.33	pP	21:25:16.738	-0.3	351.3	7.03	TAS	223.6	0.98	m_e		
TANN	58.04	P	21:25:03.538	0.3	351.1	6.99	TAS	109.3	1.12	m_e	MBB	6.1
TANN	58.04	pP	21:25:07.342	0.4	351.3	7.03	TAS	132.6	1.18	m_e		
TNS	57.82	P	21:25:01.846	0.4	351.1	6.99	TAS	55.7	0.85	m_e	MBB	6.0
TNS	57.82	pP	21:25:05.700	0.1	351.3	7.03	TAS	85.2	0.93	m_e		
UBBA	57.40	P	21:24:58.666	0.0	351.1	6.99	TAS	30.2	0.58	m_e	MBB	6.0
UBBA	57.40	pP	21:25:02.494	0.1	351.3	7.03	TAS	69.1	1.03	m_e		
UBR	60.51	P	21:25:20.381		351.1	6.99	TAS	40.7	0.95	m_e	MBB	5.9
UBR	60.51	pP	21:25:24.261		351.3	7.03	TAS	71.3	1.07	m_e		
WET	59.34	P	21:25:12.847	-0.1	351.1	6.99	TAS	44.5	0.92	m_e	MBB	6.0
WET	59.34	pP	21:25:16.774	-0.3	351.3	7.03	TAS	79.5	1.06	m_e		

WLF	58.10	P	21:25:03.910	-0.2	351.1	6.99	TAS	88.8	0.86	m_e	MBB	6.1
WLF	58.10	pP	21:25:07.717	0.4	351.3	7.03	TAS	114.6	0.95	m_e		

Event 80812006 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/12	21:31:16.97			70.8710	-147.0130				10.0			25		55.80	60.81	m i ke	BGR
80812012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	80812012
Ms	5.6		BGR	80812012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	57.47		P	21:41:04.287	-0.6	351.8		6.99		TAS		15.0	0.99	m_e	mb 5.0
BFO	59.79		P	21:41:20.163		351.8		6.99		TAS		17.6	1.14	m_e	mb 5.0
BRG	57.79		P	21:41:06.682	-0.1	351.8		6.99		TAS		12.9	0.98	m_e	mb 4.9
BUG	56.61		P	21:40:57.733	-0.9	351.8		6.99		TAS		21.8	0.91	m_e	mb 5.2
CLL	57.29		P	21:41:00.939	0.8	351.8		6.99		TAS		14.2	0.96	m_e	mb 5.0
CLZ	56.52		P	21:40:56.278	0.7	351.8		6.99		TAS		23.7	0.95	m_e	mb 5.2
FUR	60.25		P	21:41:23.519		351.8		6.99		TAS		15.2	0.90	m_e	mb 5.0
GEC2	59.79		P	21:41:19.370		351.8		6.99		TAS		14.2	1.14	m_e	mb 4.9
GRA1	58.73		L	21:52:37.263						T__		4501.4	21.50	a_e	Ms 5.6
IBBN	55.80		P	21:40:52.569	-0.9	351.8		6.99		TAS		39.2	1.02	m_e	mb 5.4
KAST	56.96		P	21:40:59.498	0.4	351.8		6.99		TAS		9.7	1.07	m_e	mb 4.8
MANZ	58.52		P	21:41:11.558	0.7	351.8		6.99		TAS		1.8	1.08	m_e	mb 4.0
MOX	57.82		P	21:41:06.915	0.5	351.8		6.99		TAS		8.5	0.95	m_e	mb 4.8
MOX	57.82		L	21:59:33.689						T__		5390.7	18.50	a_e	Ms 5.7
NEUB	57.29		P	21:41:01.648	0.4	351.8		6.99		TAS		23.7	0.92	m_e	mb 5.2
NRDL	55.85		P	21:40:52.830	-1.5	351.8		6.99		TAS		22.0	1.02	m_e	mb 5.1
PLN	58.03		P	21:41:06.757	1.1	351.8		6.99		TAS		9.0	1.02	m_e	mb 4.7
RJOB	60.81		P	21:41:27.789		351.8		6.99		TAS		12.7	0.97	m_e	mb 4.7
ROTZ	58.75		P	21:41:12.649	-1.6	351.8		6.99		TAS		2.2	1.05	m_e	mb 4.1
RUE	56.19		P	21:40:55.757	-0.7	351.8		6.99		TAS		23.8	0.99	m_e	mb 5.2
STU	59.44		P	21:41:18.671		351.8		6.99		TAS		29.1	0.86	m_e	mb 5.3
TANN	58.12		P	21:41:09.176	0.3	351.8		6.99		TAS		10.3	1.03	m_e	mb 4.8
TNS	57.93		P	21:41:07.315	0.3	351.8		6.99		TAS		15.4	1.09	m_e	mb 5.0
UBBA	57.50		P	21:41:02.571	-0.3	351.8		6.99		TAS				m_e	
UBR	60.62		P	21:41:24.163		351.8		6.99		TAS		26.8	1.59	m_e	mb 4.8
WET	59.42		P	21:41:17.935		351.8		6.99		TAS				m_e	
WLF	58.23		P	21:41:08.454		351.8		6.99		TAS		18.9	0.98	m_e	mb 5.1

./bull1808.txt

Fri Oct 02 12:46:01 2020

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/14	03:29:52.40			-58.1700	-25.3400				30.0					111.62	112.60	m i ke	EMSC
OrigID 80814034																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.1		BGR	80814008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	111.62		Pdiff	03:44:32.359						T__				m_e	
GRA1	111.62		L	04:29:54.503						T__		5666.7	21.70	a_e Ms	6.1
MOX	112.60		L	04:30:32.567						T__		4523.8	21.20	a_e Ms	6.0

Event 80814004 Southern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/14	21:48:31.05	0.53	1.21	41.7950	14.9870	12.2	10.0	76	10.0				42 318	4.72	12.54	m i ke	BGR
OrigID 80814010																	

Magnitude	Err	Nsta	Author	OrigID
ML	5.0		BGR	80814010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABH	9.61		Pn	21:50:47.675	-0.3					T__				m_e	
AHRW	10.32		Pn	21:50:57.987	0.5					T__				m_e	
ARSA	5.47		Sn	21:50:51.655	-1.4					T__				m_e	
ARSA	5.47		Pn	21:49:52.221	0.2					T__				m_e ML	4.6
BFO	8.05		Pn	21:50:26.097	-0.8					T__				m_e ML	4.8
BRG	9.11		Pn	21:50:40.957	-0.2					T__				m_e	
BSEG	12.54		Pn	21:51:29.554	2.0					T__				m_e	
BUG	11.00		Pn	21:51:08.762	2.0					T__				m_e	
CLL	9.61		Pn	21:50:48.273	0.3					T__				m_e	
CLZ	10.53		Pn	21:51:01.794	1.4					T__				m_e	
DAVA	6.59		Pn	21:50:07.908	0.7					T__				m_e ML	5.1
ECH	8.48		Pn	21:50:31.746	-0.9					T__				m_e ML	5.4
EMING	7.50		Pn	21:50:18.646	-0.8					T__				m_e ML	5.0
GEC2	7.11		Sn	21:51:30.850	-1.1					T__				m_e	
GEC2	7.11		Pn	21:50:13.946	-0.2					T__				m_e ML	5.0
GRA1	8.32		Pn	21:50:29.006	-1.6					T__				m_e ML	5.1
GRFO	8.32		Pn	21:50:29.001	-1.6					T__				m_e	
KAST	10.44		Pn	21:50:59.280	0.2					T__				m_e	
KBA	5.41		Sn	21:50:51.586	-0.1					T__				m_e	
KBA	5.41		Pn	21:49:52.586	1.3					T__				m_e ML	4.7
MANZ	8.43		Pn	21:50:31.025	-1.0					T__				m_e ML	4.9
METMA	7.61		Sn	21:51:40.960	-3.0					T__				m_e	
METMA	7.61		Pn	21:50:19.812	-1.2					T__				m_e ML	4.8

MILB	8.96	Pn	21:50:38.503	-0.7	T__	m_e		
MOA	6.08	Sn	21:51:07.895	0.5	T__	m_e		
MOA	6.08	Pn	21:50:01.604	1.4	T__	m_e ML	4.9	
MOX	9.15	Pn	21:50:40.846	-0.9	T__	m_e		
NEUB	9.66	Pn	21:50:48.292	-0.3	T__	m_e		
NORI	7.58	Pn	21:50:20.205	-0.3	T__	m_e ML	4.9	
OBER	6.53	Sn	21:51:19.485	1.2	T__	m_e		
OBER	6.53	Pn	21:50:07.028	0.6	T__	m_e ML	4.7	
OBKA	4.72	Pn	21:49:42.441	0.5	T__	m_e ML	5.3	
PLN	8.91	Pn	21:50:38.342	-0.2	T__	m_e		
PLONS	6.61	Sn	21:51:20.316	0.2	T__	m_e		
PLONS	6.61	Pn	21:50:08.725	1.3	T__	m_e ML	4.9	
RETH	11.59	Pn	21:51:14.891	0.2	T__	m_e		
RIVT	9.77	Pn	21:50:51.364	1.2	T__	m_e		
RJOB	6.14	Sn	21:51:11.378	2.4	T__	m_e		
RJOB	6.14	Pn	21:50:01.703	0.6	T__	m_e ML	4.9	
ROTZ	8.21	Pn	21:50:27.408	-1.6	T__	m_e ML	4.9	
SLE	7.55	Pn	21:50:19.244	-0.8	T__	m_e ML	5.7	
SULZ	7.54	Sn	21:51:40.121	-2.1	T__	m_e ML	5.5	
TANN	8.80	Pn	21:50:36.168	-0.8	T__	m_e		
TNS	9.57	Pn	21:50:47.118	-0.3	T__	m_e		
UBR	6.83	Sn	21:51:28.338	2.9	T__	m_e		
UBR	6.83	Pn	21:50:10.505	0.1	T__	m_e ML	5.2	
WALHA	7.27	Pn	21:50:16.499	0.1	T__	m_e ML	5.3	
WET	7.50	Sn	21:51:38.809	-2.4	T__	m_e		
WET	7.50	Pn	21:50:18.666	-0.8	T__	m_e ML	4.9	
WILA	7.10	Pn	21:50:13.940	-0.1	T__	m_e ML	5.4	
WLF	10.00	Pn	21:50:53.911	0.7	T__	m_e		
WTTA	5.97	Sn	21:51:07.016	2.1	T__	m_e		
WTTA	5.97	Pn	21:49:59.571	0.8	T__	m_e ML	5.1	

Event 80815001 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/15	03:14:32.20			-14.9900	-173.7300				28.0					145.16	145.16	m i ke	EMSC
80815033																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.16		PKPbc	03:34:07.424		8.4		2.72		TAS					m_e

Event 80815007 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/15	21:56:55.16			51.6600	-176.8000				33.0			32		73.83	80.86	m i k e	BGR
80815013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	80815013
MBB	6.7		BGR	80815013
Ms	6.4		BGR	80815013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	78.12		P	22:08:52.332	0.8	5.2		5.59		TAS		116.3	1.21	m_e	MBB	6.8
BFO	80.29		P	22:09:03.966	0.6	5.2		5.59		TAS		174.4	1.67	m_e	MBB	6.5
BRG	77.44		P	22:08:47.678	-1.3	5.2		5.59		TAS		37.0	0.96	m_e	MBB	6.6
BSEG	74.61		P	22:08:33.020	0.5	5.2		5.59		TAS		62.2	0.78	m_e	MBB	6.8
BUG	77.22		P	22:08:48.144	1.0	5.2		5.59		TAS		249.5	1.78	m_e	MBB	6.7
CLL	77.07		P	22:08:45.352	0.4	5.2		5.59		TAS		43.4	1.05	m_e	MBB	6.6
CLZ	76.70		P	22:08:45.352	1.0	5.2		5.59		TAS		77.0	1.04	m_e	MBB	6.7
FLT1	76.16		P	22:08:40.698	1.0	5.2		5.59		TAS		46.3	1.00	m_e	MBB	6.7
FUR	80.32		P	22:09:06.525		5.2		5.59		TAS		201.8	1.60	m_e	MBB	6.4
GEC2	79.47		P	22:08:59.778	-0.4	5.2		5.59		TAS		219.3	1.94	m_e	MBB	6.6
GOR1	75.50		P	22:08:38.139	0.2	5.2		5.59		TAS		3007.1	3.36	m_e	MBB	6.9
GRA1	78.80		P	22:08:57.451	-0.0	5.2		5.59		TAS		344.7	1.77	m_e	mb	6.1
GRA1	78.80		S	22:19:17.374						T__				m_e		
GRA1	78.80		SS	22:24:09.540						T__				m_e		
GRA1	78.80		L	22:48:03.046						T__		22711.7	21.10	a_e	Ms	6.5
GTTG	77.01		P	22:08:46.282	-1.1	5.2		5.59		TAS		96.7	1.23	m_e	MBB	6.7
IBBN	76.34		P	22:08:42.560	-0.6	5.2		5.59		TAS		116.3	0.97	m_e	MBB	6.9
KAST	77.42		P	22:08:49.307	-0.7	5.2		5.59		TAS		212.3	1.80	m_e	MBB	6.7
MANZ	78.45		P	22:08:53.961	-1.2	5.2		5.59		TAS		50.6	1.99	m_e	MBB	6.1
MOX	77.82		P	22:08:49.307	-0.1	5.2		5.59		TAS		140.4	1.73	m_e	MBB	6.7
MOX	77.82		S	22:19:23.394						T__				m_e		
MOX	77.82		SS	22:23:56.360						T__				m_e		
MOX	77.82		L	22:47:22.847						T__		19236.8	21.10	a_e	Ms	6.4
NEUB	77.27		P	22:08:47.911	-0.6	5.2		5.59		TAS		230.4	1.62	m_e	MBB	6.8
NRDL	76.06		P	22:08:39.069	-0.3	5.2		5.59		TAS		300.5	2.07	m_e	MBB	6.7
PLN	77.95		P	22:08:51.169	-1.5	5.2		5.59		TAS		1889.6	3.70	m_e	MBB	6.7
RETH	75.85		P	22:08:39.767	-1.7	5.2		5.59		TAS		1704.0	3.32	m_e	MBB	6.8
RGN	73.83		P	22:08:29.064	0.8	5.2		5.59		TAS		99.0	0.76	m_e	MBB	6.8
RJOB	80.64		P	22:09:06.266	0.5	5.2		5.59		TAS		166.9	1.91	m_e	MBB	6.7
ROTZ	78.66		P	22:08:55.822	1.4	5.2		5.59		TAS		481.3	3.91	m_e	MBB	5.9
RUE	75.86		P	22:08:39.302	0.3	5.2		5.59		TAS		57.4	0.79	m_e	MBB	6.8
STU	79.82		P	22:09:01.639	2.0	5.2		5.59		TAS		323.4	1.60	m_e	MBB	6.8
TANN	78.00		P	22:08:52.332	-0.1	5.2		5.59		TAS		228.2	1.88	m_e	MBB	6.7
TNS	78.40		P	22:08:52.332	0.5	5.2		5.59		TAS		209.6	1.76	m_e	MBB	6.6
UBBA	77.74		P	22:08:49.540	0.1	5.2		5.59		TAS		1373.4	3.29	m_e	MBB	6.6
UBR	80.86		P	22:09:08.154		5.2		5.59		TAS		149.5	1.67	m_e	MBB	6.6
WET	79.24		P	22:08:57.218	-0.1	5.2		5.59		TAS		220.6	1.94	m_e	MBB	6.6
WLF	79.02		P	22:08:56.055	-1.3	5.2		5.59		TAS		136.1	1.37	m_e	MBB	6.6

Event 80816009 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/16	03:53:00.41			43.0040	148.1160				33.0	0.8		18				m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	80816015
Ms	4.2		BGR	80816015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG			P	04:04:55.615	0.3	30.5		5.40		TAS		10.5	0.98	m_e mb	4.9
BSEG			P	04:04:48.147	0.4	30.5		5.40		TAS		14.7	0.79	m_e mb	5.2
CLL			P	04:04:54.787	0.0	30.5		5.40		TAS		31.1	0.82	m_e mb	5.5
CLZ			P	04:04:57.683	-0.5	30.5		5.40		TAS		29.1	1.08	m_e mb	5.2
FLT1			P	04:04:53.057	-0.6	30.5		5.40		TAS		22.3	0.82	m_e mb	5.3
GEC2			P	04:05:05.885		30.5		5.40		TAS		5.4	0.90	m_e mb	4.5
GOR1			P	04:04:51.551	0.0	30.5		5.40		TAS		12.3	0.90	m_e mb	5.0
GRA1			P	04:05:06.544		30.5		5.40		TAS		27.6	0.86	m_e mb	5.2
GRA1			L	04:51:42.493						T__		115.6	19.50	a_e Ms	4.2
GTTG			P	04:04:59.771	-0.1	30.5		5.40		TAS		28.9	1.16	m_e mb	5.2
KAST			P	04:05:03.288	0.3	30.5		5.40		TAS		12.0	1.00	m_e mb	4.8
MANZ			P	04:05:03.290		30.5		5.40		TAS		2.6	0.97	m_e mb	4.1
MOX			P	04:05:00.599		30.5		5.40		TAS		12.8	0.96	m_e mb	4.9
MOX			L	04:45:01.288						T__		109.3	18.00	a_e Ms	4.2
NRDL			P	04:04:55.013	0.1	30.5		5.40		TAS		11.6	0.86	m_e mb	5.0
PLN			P	04:05:00.712		30.5		5.40		TAS				m_e	
RETH			P	04:04:55.464	-0.8	30.5		5.40		TAS		14.6	0.95	m_e mb	5.1
ROTZ			P	04:05:04.381		30.5		5.40		TAS		3.3	1.05	m_e mb	4.2
TANN			P	04:05:00.769		30.5		5.40		TAS		3.7	0.82	m_e mb	4.5
WET			P	04:05:06.073		30.5		5.40		TAS		23.0	1.03	m_e mb	5.0

Event 80816008 Southern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/16	18:19:07.25	0.46	1.30	41.8880	14.8530	8.9	7.8	22	10.0				51 307			m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
ML	5.6		BGR	80816014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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ABH	Pn	18:21:21.748	-0.7	T__	m_e	
AHRW	Pn	18:21:32.939	1.0	T__	m_e	
ARSA	Pn	18:20:25.826	-1.2	T__	m_e ML	5.3
BFO	Pn	18:21:00.193	-1.1	T__	m_e	
BRG	Pn	18:21:15.924	-0.1	T__	m_e	
CKRC	Sn	18:22:04.351	0.1	T__	m_e ML	5.8
CLL	Pn	18:21:22.266	-0.5	T__	m_e	
DAVA	Sn	18:21:55.051	2.3	T__	m_e	
DAVA	Pn	18:20:41.957	0.3	T__	m_e ML	5.7
DPC	Pn	18:21:13.005	3.3	T__	m_e	
EMING	Sn	18:22:14.548	0.3	T__	m_e	
EMING	Pn	18:20:54.851	1.0	T__	m_e	
FUR	Pn	18:20:47.058	1.3	T__	m_e ML	6.0
GEC2	Sn	18:22:04.978	-0.7	T__	m_e	
GEC2	Pn	18:20:47.560	-1.4	T__	m_e	
GRA1	Pn	18:21:06.136	1.0	T__	m_e	
GRFO	Pn	18:21:04.274	-0.9	T__	m_e	
GTTG	Pn	18:21:33.300	0.9	T__	m_e	
JAVC	Sn	18:22:12.500	1.1	T__	m_e	
JAVC	Pn	18:20:53.001	0.8	T__	m_e	
KAST	Pn	18:21:34.151	0.5	T__	m_e	
KBA	Pn	18:20:26.010	0.1	T__	m_e ML	5.5
KHC	Sn	18:22:12.199	-0.5	T__	m_e	
KHC	Pn	18:20:51.513	-1.4	T__	m_e	
KRUC	Sn	18:22:09.438	-2.2	T__	m_e	
MANZ	Pn	18:21:04.883	-1.9	T__	m_e	
METMA	Sn	18:22:13.941	-3.0	T__	m_e	
METMA	Pn	18:20:53.971	-1.4	T__	m_e	
MOA	Sn	18:21:41.686	0.4	T__	m_e	
MOA	Pn	18:20:35.215	0.1	T__	m_e ML	5.5
MORC	Pn	18:21:05.016	1.1	T__	m_e	
MOX	Pn	18:21:14.106	-2.3	T__	m_e	
NEUB	Pn	18:21:23.400	0.1	T__	m_e	
NORI	Pn	18:20:54.558	-0.5	T__	m_e	
OBER	Sn	18:21:53.080	1.6	T__	m_e	
OBER	Pn	18:20:41.321	0.5	T__	m_e ML	5.2
OBKA	Pn	18:20:16.147	-0.7	T__	m_e ML	5.8
OKC	Pn	18:21:07.551	1.4	T__	m_e	
PART	Sn	18:21:49.361	2.6	T__	m_e ML	5.4
PLN	Pn	18:21:13.448	0.2	T__	m_e	
PLONS	Sn	18:21:54.751	1.6	T__	m_e	
PLONS	Pn	18:20:42.670	0.8	T__	m_e ML	5.5
PRU	Pn	18:21:03.032	-0.8	T__	m_e	
RIVT	Pn	18:21:24.888	0.3	T__	m_e	
RJOB	Sn	18:21:44.139	1.6	T__	m_e	
RJOB	Pn	18:20:35.489	-0.3	T__	m_e ML	5.4
ROTT	Pn	18:21:13.611	2.6	T__	m_e	
ROTZ	Pn	18:21:01.523	-2.1	T__	m_e	
SLE	Sn	18:22:13.400	-2.0	T__	m_e	



SLE	Pn	18:20:53.154	-1.3	T__	m_e		
STU	Pn	18:21:01.392	-0.4	T__	m_e		
SULZ	Sn	18:22:13.568	-1.6	T__	m_e		
SULZ	Pn	18:20:53.492	-0.9	T__	m_e		
TANN	Pn	18:21:12.327	0.6	T__	m_e		
TNS	Pn	18:21:21.991	0.1	T__	m_e		
UBBA	Pn	18:21:23.938	0.8	T__	m_e		
UBR	Sn	18:21:59.043	0.5	T__	m_e		
UBR	Pn	18:20:44.472	-0.4	T__	m_e	ML	5.7
VRAC	Pn	18:20:57.074	1.1	T__	m_e		
WALHA	Sn	18:22:09.217	0.3	T__	m_e		
WALHA	Pn	18:20:50.584	-0.2	T__	m_e		
WET	Sn	18:22:12.254	-2.5	T__	m_e		
WET	Pn	18:20:52.174	-2.0	T__	m_e		
WILA	Sn	18:22:05.003	0.3	T__	m_e		
WILA	Pn	18:20:48.806	0.4	T__	m_e		
WLF	Pn	18:21:28.549	1.0	T__	m_e		
WTTA	Pn	18:20:33.924	0.6	T__	m_e	ML	5.7

Event 80816002 Southern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/16	20:22:37.10	0.50	1.27	41.9280	14.9300	11.1	8.9	56	10.0			45	317			m i ke	BGR
OrigID 80816008																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.8		BGR	80816008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABH			Pn	20:24:53.273	1.1					T__				m_e	
ARSA			Pn	20:23:55.777	-0.6					T__				m_e	ML 4.3
BBWF			Pn	20:24:48.989	-1.1					T__				m_e	
BFO			Pn	20:24:31.103	-0.1					T__				m_e	
BRG			Pn	20:24:44.829	-0.6					T__				m_e	
CLL			Pn	20:24:52.449	0.3					T__				m_e	
DAVA			Pn	20:24:12.348	0.9					T__				m_e	ML 4.9
ECH			Sn	20:26:05.209	-2.3					T__				m_e	
ECH			Pn	20:24:35.535	-1.4					T__				m_e	
FBE			Pn	20:24:46.435	-0.1					T__				m_e	
FUR			Pn	20:24:15.364	-0.0					T__				m_e	ML 5.1
GEC2			Sn	20:25:33.412	-1.3					T__				m_e	ML 4.7
GRA1			Pn	20:24:35.557	0.8					T__				m_e	
GRZ1			Pn	20:24:45.721	0.4					T__				m_e	
HWTS			Pn	20:24:44.865	-0.8					T__				m_e	
KAST			Pn	20:25:03.900	0.6					T__				m_e	
KBA			Sn	20:24:54.596	0.2					T__				m_e	

KBA	Pn	20:23:55.940	0.5	T__	m_e ML	4.6
MANZ	Pn	20:24:35.328	-0.9	T__	m_e ML	4.4
METMA	Sn	20:25:44.564	-2.3	T__	m_e	
METMA	Pn	20:24:23.862	-1.4	T__	m_e	
MLFH	Pn	20:24:47.760	0.9	T__	m_e	
MOA	Sn	20:25:11.437	1.2	T__	m_e	
MOA	Pn	20:24:04.670	0.2	T__	m_e ML	4.5
MODW	Pn	20:24:48.648	0.5	T__	m_e	
MOX	Pn	20:24:45.433	-0.5	T__	m_e	
MULD	Pn	20:24:40.818	-0.4	T__	m_e	
OBER	Sn	20:25:23.376	2.2	T__	m_e	
OBER	Pn	20:24:12.254	1.6	T__	m_e ML	4.5
OBKA	Sn	20:24:37.694	-0.5	T__	m_e	
OBKA	Pn	20:23:45.859	-0.3	T__	m_e ML	5.0
PART	Sn	20:25:19.450	3.1	T__	m_e ML	4.6
PLN	Pn	20:24:43.693	1.0	T__	m_e	
PLONS	Sn	20:25:24.140	1.1	T__	m_e	
PLONS	Pn	20:24:12.244	0.5	T__	m_e ML	4.6
RIVT	Pn	20:24:55.977	1.6	T__	m_e	
RJOB	Sn	20:25:13.681	1.9	T__	m_e ML	4.5
ROHR	Pn	20:24:38.077	-1.0	T__	m_e	
ROTZ	Sn	20:25:57.635	-3.1	T__	m_e	
ROTZ	Pn	20:24:31.412	-1.8	T__	m_e ML	4.5
SCHF	Pn	20:24:45.092	0.4	T__	m_e	
SLE	Sn	20:25:43.582	-1.7	T__	m_e	
SLE	Pn	20:24:22.992	-1.4	T__	m_e ML	5.3
SULZ	Sn	20:25:45.327	0.2	T__	m_e	
SULZ	Pn	20:24:23.727	-0.6	T__	m_e ML	5.2
TANN	Pn	20:24:41.556	0.4	T__	m_e	
TNS	Pn	20:24:51.787	0.1	T__	m_e	
TRIB	Pn	20:24:40.705	-0.3	T__	m_e	
UBR	Pn	20:24:15.071	0.4	T__	m_e ML	5.0
WALHA	Pn	20:24:19.627	-1.0	T__	m_e ML	5.0
WERD	Pn	20:24:42.218	0.3	T__	m_e	
WERN	Pn	20:24:41.042	1.4	T__	m_e	
WET	Sn	20:25:41.841	-2.1	T__	m_e	
WET	Pn	20:24:22.444	-1.2	T__	m_e ML	4.6
WILA	Pn	20:24:18.271	-0.0	T__	m_e ML	5.0
WTTA	Sn	20:25:10.252	2.6	T__	m_e	
WTTA	Pn	20:24:04.991	2.0	T__	m_e ML	4.9

Event 80817002 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/17	04:35:29.52			50.7660	-178.9030				33.0					79.55	79.55	m i ke	BGR
80817008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	80817008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.55		P	04:47:31.488		9.3		4.80		TAS		78.6	1.32	m_e	mb 5.5

Event 80817004 Flores Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/17	15:35:02.10			-7.4100	119.8200				539.0				21	106.14	110.86	m i ke	NEIC
OrigID 80817043																	

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
AHRW	110.08		PKiKP	15:52:33.252	-0.3	76.1		2.05		TAS				m_e	
BSEG	107.40		PKiKP	15:52:27.900	-0.4	76.1		2.05		TAS				m_e	
BUG	109.75		PKiKP	15:52:31.856	-0.4	76.1		2.05		TAS				m_e	
CLZ	107.78		PKiKP	15:52:29.076	0.3	76.1		2.05		TAS				m_e	
FLT1	107.16		PKiKP	15:52:26.154	-1.1	76.1		2.05		TAS				m_e	
FUR	107.84		PKiKP	15:52:29.217		76.1		2.05		TAS				m_e	
GEC2	106.14		PKiKP	15:52:25.554		76.1		2.05		TAS				m_e	
GRA1	107.63		PKiKP	15:52:28.181		76.1		2.05		TAS				m_e	
GRA1	107.63		PKKPdf	16:03:41.784		246.4		3.28		TAS				m_e	
GRA1	107.63		SKKPdf	16:06:34.004		245.2		3.24		TAS				m_e	
GRA1	107.63		X	16:07:51.931		252.3		5.29		TAS				m_e	
GTTG	108.08		PKiKP	15:52:28.831	0.2	76.1		2.05		TAS				m_e	
IBBN	109.26		PKiKP	15:52:30.693	-0.1	76.1		2.05		TAS				m_e	
KAST	109.10		PKiKP	15:52:30.880	-0.0	76.1		2.05		TAS				m_e	
MANZ	107.01		PKiKP	15:52:26.478		76.1		2.05		TAS				m_e	
NEUB	107.03		PKiKP	15:52:25.715	0.5	76.1		2.05		TAS				m_e	
RETH	108.21		PKiKP	15:52:28.877	0.9	76.1		2.05		TAS				m_e	
RJOB	106.89		PKiKP	15:52:26.737		76.1		2.05		TAS				m_e	
STU	109.10		PKiKP	15:52:30.943		76.1		2.05		TAS				m_e	
TANN	106.72		PKiKP	15:52:26.595		76.1		2.05		TAS				m_e	
TNS	109.29		PKiKP	15:52:31.697		76.1		2.05		TAS				m_e	
UBR	108.69		PKiKP	15:52:30.711		76.1		2.05		TAS				m_e	
WET	106.64		PKiKP	15:52:26.772		76.1		2.05		TAS				m_e	
WLF	110.86		PKiKP	15:52:34.881		76.1		2.05		TAS				m_e	

Event 80817005 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2018/08/17 17:36:55.15 29.0800 103.0180 33.0 69.52 69.52 m i ke BGR  
 80817011

Magnitude Err Nsta Author OrigID  
 mb 4.4 BGR 80817011

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 69.52 P 17:47:59.789 73.3 5.30 TAS 2.3 0.77 m\_e mb 4.4

Event 80817006 Vanuatu Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2018/08/17 19:29:02.31 -19.8950 170.6590 33.0 25 143.88 148.24 m i ke BGR  
 80817012

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.24		PKPbc	19:48:44.313		36.0		3.23		TAS				m_e	
BRG	144.04		PKPbc	19:48:31.257	0.2	36.0		3.23		TAS				m_e	
BUG	145.92		PKPbc	19:48:37.136	-0.4	36.0		3.23		TAS				m_e	
CLL	144.06		PKPbc	19:48:30.781	-0.1	36.0		3.23		TAS				m_e	
CLZ	144.58		PKPbc	19:48:33.182	0.2	36.0		3.23		TAS				m_e	
FLT1	143.88		PKPbc	19:48:30.481	-0.1	36.0		3.23		TAS				m_e	
FUR	147.24		PKPbc	19:48:41.714		36.0		3.23		TAS				m_e	
GEC2	145.69		PKPbc	19:48:36.420	-0.1	36.0		3.23		TAS				m_e	
GRA1	146.04		PKPbc	19:48:38.169		36.0		3.23		TAS				m_e	
GTTG	144.97		PKPbc	19:48:34.450	-0.2	36.0		3.23		TAS				m_e	
IBBN	145.01		PKPbc	19:48:34.576	0.1	36.0		3.23		TAS				m_e	
KAST	145.77		PKPbc	19:48:36.885	0.4	36.0		3.23		TAS				m_e	
MANZ	145.46		PKPbc	19:48:35.947	0.3	36.0		3.23		TAS				m_e	
MOX	145.12		PKPbc	19:48:34.529	0.6	36.0		3.23		TAS				m_e	
NEUB	144.62		PKPbc	19:48:32.915	0.3	36.0		3.23		TAS				m_e	
PLN	145.04		PKPbc	19:48:34.293	-0.4	36.0		3.23		TAS				m_e	
RETH	144.15		PKPbc	19:48:31.473	-0.1	36.0		3.23		TAS				m_e	
RJOB	146.93		PKPbc	19:48:40.437		36.0		3.23		TAS				m_e	
ROTZ	145.60		PKPbc	19:48:36.514	0.2	36.0		3.23		TAS				m_e	
STU	147.56		PKPbc	19:48:42.423		36.0		3.23		TAS				m_e	
TNS	146.60		PKPbc	19:48:39.823		36.0		3.23		TAS				m_e	
UBBA	145.56		PKPbc	19:48:36.265	-0.2	36.0		3.23		TAS				m_e	
UBR	148.10		PKPbc	19:48:43.935		36.0		3.23		TAS				m_e	
WET	145.81		PKPbc	19:48:37.081	-0.3	36.0		3.23		TAS				m_e	
WLF	147.82		PKPbc	19:48:43.983		36.0		3.23		TAS				m_e	

Event 80817007 Volcano Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/17	22:06:56.90			23.4700	143.3000				20.0					95.65	95.65	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	80817013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	95.65		P	22:20:16.292		43.2		4.24		TAS		11.2	1.21	m_e	mb 5.3
GRA1	95.65		PP	22:24:12.459		34.8		6.77		TAS				m_e	

Event 80817009 Panama-Costa Rica border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2018/08/17	23:22:25.85			8.0600	-82.1400				33.0					32	82.82	87.82	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	6.1		BGR	80817015
Ms	6.2		BGR	80817015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	83.34		S	23:45:11.194	-1.1	282.0		6.87		TAS				m_e	
AHRW	83.34		P	23:34:49.705	0.2	277.6		5.03		TAS				m_e	
BFO	84.36		P	23:34:54.515		277.6		5.03		TAS		86.2	1.44	m_e	mb 5.8
BRG	87.63		SS	23:51:42.020						T__				m_e	
BRG	87.63		P	23:35:11.267	-0.1	277.6		5.03		TAS		284.9	1.64	m_e	mb 6.1
BSEG	85.00		S	23:45:21.294		282.0		6.87		TAS				m_e	
BSEG	85.00		P	23:34:58.250	0.1	277.6		5.03		TAS		389.0	1.81	m_e	mb 6.3
BUG	83.40		S	23:45:10.857	-1.0	282.0		6.87		TAS				m_e	
BUG	83.40		SS	23:50:39.732						T__				m_e	
BUG	83.40		P	23:34:49.977	-0.3	277.6		5.03		TAS		190.5	1.51	m_e	mb 6.0
CLL	86.98		S	23:45:34.546		282.0		6.87		TAS				m_e	
CLL	86.98		P	23:35:08.016	-0.0	277.6		5.03		TAS		305.9	1.55	m_e	mb 6.2
CLZ	85.28		P	23:34:59.841	-0.2	277.6		5.03		TAS		318.7	1.58	m_e	mb 6.3
FLT1	85.75		S	23:45:27.132		282.0		6.87		TAS				m_e	
FLT1	85.75		SS	23:51:22.835						T__				m_e	
FLT1	85.75		P	23:35:01.943	0.2	277.6		5.03		TAS		300.9	1.61	m_e	mb 6.3
FUR	86.33		S	23:45:33.303		282.0		6.87		TAS				m_e	
GEC2	87.82		SS	23:51:43.981						T__				m_e	
GEC2	87.82		P	23:35:12.664	-0.2	277.6		5.03		TAS		199.8	1.48	m_e	mb 6.0
GOR1	85.70		P	23:35:01.857	0.3	277.6		5.03		TAS		415.1	1.89	m_e	mb 6.3

GRA1	86.09	S	23:45:32.949		282.0		6.87	TAS					m_e		
GRA1	86.09	P	23:35:03.799	0.2	277.6		5.03	TAS	215.0	1.44	m_e	mb		6.2	
GRA1	86.09	L	00:07:35.534					T__	15013.0	21.80	a_e	Ms		6.3	
GTTG	85.06	S	23:45:24.106		282.0		6.87	TAS					m_e		
GTTG	85.06	P	23:34:58.723	-0.2	277.6		5.03	TAS	284.2	1.74	m_e	mb		6.2	
IBBN	83.62	S	23:45:12.272	0.0	282.0		6.87	TAS					m_e		
IBBN	83.62	P	23:34:51.096	-0.0	277.6		5.03	TAS	223.7	1.59	m_e	mb		6.2	
KAST	84.13	S	23:45:15.280	0.5	282.0		6.87	TAS					m_e		
KAST	84.13	P	23:34:53.576	-0.2	277.6		5.03	TAS	133.3	1.62	m_e	mb		5.9	
MANZ	86.62	S	23:45:34.369		282.0		6.87	TAS					m_e		
MANZ	86.62	P	23:35:06.493	0.1	277.6		5.03	TAS	65.0	1.87	m_e	mb		5.4	
MOX	86.21	S	23:45:32.242		282.0		6.87	TAS					m_e		
MOX	86.21	P	23:35:04.213	-0.3	277.6		5.03	TAS	216.0	1.69	m_e	mb		6.1	
MOX	86.21	L	00:07:51.359					T__	7450.6	21.20	a_e	Ms		6.1	
NEUB	86.23	SS	23:51:29.203					T__					m_e		
NEUB	86.23	S	23:45:30.670		282.0		6.87	TAS					m_e		
NEUB	86.23	P	23:35:04.411	-0.3	277.6		5.03	TAS	336.6	1.66	m_e	mb		6.3	
NRDL	85.04	S	23:45:20.922		282.0		6.87	TAS					m_e		
NRDL	85.04	P	23:34:58.577	0.1	277.6		5.03	TAS	234.3	1.51	m_e	mb		6.2	
PLN	86.57	S	23:45:32.448		282.0		6.87	TAS					m_e		
PLN	86.57	P	23:35:05.826	0.6	277.6		5.03	TAS	291.3	1.62	m_e	mb		6.2	
RETH	84.56	P	23:34:56.322	0.2	277.6		5.03	TAS	399.0	1.68	m_e	mb		6.4	
RGN	86.66	P	23:35:06.450	-0.1	277.6		5.03	TAS	502.8	1.33	m_e	mb		6.5	
RJOB	87.41	P	23:35:10.105		277.6		5.03	TAS	154.9	1.44	m_e	mb		5.9	
ROTZ	86.71	P	23:35:06.460	0.1	277.6		5.03	TAS	62.0	1.85	m_e	mb		5.4	
RUE	87.27	P	23:35:09.701	-0.2	277.6		5.03	TAS	242.8	1.46	m_e	mb		6.1	
STU	84.88	P	23:34:57.800		277.6		5.03	TAS	579.1	1.48	m_e	mb		6.6	
TANN	86.78	S	23:45:34.571		282.0		6.87	TAS					m_e		
TANN	86.78	P	23:35:07.341	0.1	277.6		5.03	TAS	309.6	1.58	m_e	mb		6.2	
TNS	84.25	S	23:45:17.031	-2.2	282.0		6.87	TAS					m_e		
TNS	84.25	P	23:34:55.043	-0.4	277.6		5.03	TAS	242.0	1.58	m_e	mb		6.2	
UBBA	85.17	S	23:45:24.106		282.0		6.87	TAS					m_e		
UBBA	85.17	SS	23:51:12.891					T__					m_e		
UBBA	85.17	P	23:34:58.724	-0.2	277.6		5.03	TAS	226.4	1.81	m_e	mb		6.1	
UBR	85.62	P	23:35:01.728		277.6		5.03	TAS	301.1	1.62	m_e	mb		6.3	
WET	87.24	S	23:45:36.340		282.0		6.87	TAS					m_e		
WET	87.24	P	23:35:09.639	-0.4	277.6		5.03	TAS	341.0	1.47	m_e	mb		6.3	
WLF	82.82	P	23:34:47.302	0.2	277.6		5.03	TAS	203.8	1.61	m_e	mb		6.0	

Event 80817010 Northern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/17	23:43:37.02			44.2630	85.4980				20.7					49.05	49.05	m i ke	BGR
80817016																	

Magnitude Err Nsta Author OrigID

./bull1808.txt      Fri Oct 02 12:46:01 2020      55

mb      5.2      BGR      80817016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	49.05		P	23:52:21.337		68.2		6.58		TAS		19.5	0.82	m_e mb	5.2
GRA1	49.05		pP	23:52:26.922						T__				m_e	

Event 80818001 Taiwan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/18	00:15:17.33			23.3730	121.4930				21.8					84.65	84.65	m i ke	BGR
80818007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	80818007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.65		pP	00:27:53.345						T__				m_e	
GRA1	84.65		P	00:27:47.022		66.0		4.86		TAS		11.5	1.18	m_e mb	5.0

Event 80818002 Volcano Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/18	07:28:29.80			23.4600	143.4700				15.0					95.74	95.74	m i ke	EMSC
80818034																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	80818007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	95.74		PP	07:45:45.056						T__				m_e	

Event 80818004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/18	16:41:45.84			44.0850	148.7360				33.0					79.51	79.51	m i ke	BGR
80818010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	80818010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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GRA1 79.51 P 16:53:47.809 28.7 4.76 TAS 4.4 0.84 m\_e mb 4.4

Event 80818005 Near north coast of Colombia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2018/08/18 19:39:18.75 9.9980 -76.3810 22.9 2.3 33 77.63 82.61 m i ke BGR
80818011

Magnitude Err Nsta Author OrigID
mb 5.8 BGR 80818011
Ms 5.1 BGR 80818011

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. It lists seismic data for various stations including AHRW, ASSE, BFO, BRG, BSEG, BUG, CLL, CLZ, FLT1, FUR, GEC2, GOR1, GRA1, GTTG, HLG, IBBN, and KAST.



MANZ	81.46	P	19:51:32.831	0.2	274.7	5.33	TAS	24.3	1.34	a_e	mb	5.1
MANZ	81.46	pP	19:51:39.457	-0.3			T__				m_e	
MOX	81.09	P	19:51:30.581	0.2	274.7	5.33	TAS	64.7	1.33	a_e	mb	5.5
MOX	81.09	pP	19:51:37.150	-0.3			T__				m_e	
MOX	81.09	L	20:24:04.159				T__	900.3	20.90	a_e	Ms	5.1
NEUB	81.14	P	19:51:30.931	-0.2	274.7	5.33	TAS	111.9	1.20	a_e	mb	5.8
NEUB	81.14	pP	19:51:37.627	-0.3			T__				m_e	
NRDL	80.02	P	19:51:25.281	-0.3	274.7	5.33	TAS	143.0	1.32	a_e	mb	5.7
NRDL	80.02	pP	19:51:31.676	-0.3			T__				m_e	
PLN	81.45	P	19:51:32.481	-0.0	274.7	5.33	TAS	85.3	1.14	a_e	mb	5.7
PLN	81.45	pP	19:51:39.325	-0.3			T__				m_e	
RETH	79.55	P	19:51:22.831	0.3	274.7	5.33	TAS	254.2	1.34	a_e	mb	6.0
RETH	79.55	pP	19:51:29.136	-0.3			T__				m_e	
RGN	81.77	P	19:51:34.531	0.4	274.7	5.33	TAS	139.0	1.03	a_e	mb	6.0
RGN	81.77	pP	19:51:41.225	-0.3			T__				m_e	
RJOB	82.14	P	19:51:36.031	0.0	274.7	5.33	TAS	108.0	1.61	a_e	mb	5.7
RJOB	82.14	pP	19:51:42.397	-0.3			T__				m_e	
ROTZ	81.54	P	19:51:33.381	-0.1	274.7	5.33	TAS	22.7	1.40	a_e	mb	5.1
ROTZ	81.54	pP	19:51:39.852	-0.3			T__				m_e	
RUE	82.26	P	19:51:36.631	-0.1	274.7	5.33	TAS	175.6	1.29	a_e	mb	6.0
RUE	82.26	pP	19:51:43.513	-0.3			T__				m_e	
STU	79.65	P	19:51:22.731	-0.7	274.7	5.33	TAS	289.9	1.12	a_e	mb	6.1
STU	79.65	pP	19:51:29.487	-0.3			T__				m_e	
TANN	81.65	P	19:51:33.681	0.1	274.7	5.33	TAS	98.8	1.19	a_e	mb	5.8
TANN	81.65	pP	19:51:40.384	-0.3			T__				m_e	
TNS	79.09	P	19:51:20.231	0.1	274.7	5.33	TAS	147.8	1.25	a_e	mb	5.9
TNS	79.09	pP	19:51:26.684	-0.3			T__				m_e	
UBBA	80.05	P	19:51:25.231	-0.1	274.7	5.33	TAS	131.4	1.77	a_e	mb	5.6
UBBA	80.05	pP	19:51:31.650	-0.3			T__				m_e	
UBR	80.33	P	19:51:26.731		274.7	5.33	TAS	98.6	1.26	a_e	mb	5.6
WET	82.04	P	19:51:35.781	-0.4	274.7	5.33	TAS	116.0	1.21	a_e	mb	5.9
WET	82.04	pP	19:51:42.394	-0.3			T__				m_e	
WLF	77.63	P	19:51:12.231	-0.0	274.7	5.33	TAS	193.1	1.08	a_e	mb	6.2
WLF	77.63	pP	19:51:19.087	-0.3			T__				m_e	

Event 80818007 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/18	21:42:53.14			-22.6400	-178.2100				33.0			23		148.09	153.84	m i ke	BGR
80818013																	

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	149.78		PKPbc	22:02:39.880	0.0	19.5		2.34		TAS				m_e	
ASSE	149.78		PKPab	22:02:44.650		19.5		2.34		TAS				m_e	

BFO	153.84	PKPbc	22:02:48.870		19.5	2.34	TAS	m_e
BFO	153.84	PKPab	22:03:01.244		19.5	2.34	TAS	m_e
BRG	150.27	PKPbc	22:02:40.886	-0.2	19.5	2.34	TAS	m_e
BSEG	148.09	PKPbc	22:02:35.577	-0.4	19.5	2.34	TAS	m_e
CLL	150.09	PKPbc	22:02:40.259	0.2	19.5	2.34	TAS	m_e
CLZ	150.10	PKPbc	22:02:40.715	0.0	19.5	2.34	TAS	m_e
CLZ	150.10	PKPab	22:02:46.532		19.5	2.34	TAS	m_e
FLT1	149.48	PKPbc	22:02:38.605	0.0	19.5	2.34	TAS	m_e
FLT1	149.48	PKPab	22:02:42.939		19.5	2.34	TAS	m_e
FUR	153.43	PKPbc	22:02:48.299		19.5	2.34	TAS	m_e
FUR	153.43	PKPab	22:03:00.389		19.5	2.34	TAS	m_e
GEC2	152.19	PKPbc	22:02:45.277		19.5	2.34	TAS	m_e
GRA1	152.00	PKPbc	22:02:44.951		19.5	2.34	TAS	m_e
GTTG	150.46	PKPbc	22:02:41.228	0.1	19.5	2.34	TAS	m_e
GTTG	150.46	PKPab	22:02:47.843		19.5	2.34	TAS	m_e
KAST	151.03	PKPbc	22:02:42.825	0.0	19.5	2.34	TAS	m_e
MANZ	151.53	PKPbc	22:02:43.965	-0.4	19.5	2.34	TAS	m_e
MOX	151.01	PKPbc	22:02:42.540	0.3	19.5	2.34	TAS	m_e
NEUB	150.46	PKPbc	22:02:41.282	0.2	19.5	2.34	TAS	m_e
NEUB	150.46	PKPab	22:02:47.216		19.5	2.34	TAS	m_e
PLN	151.04	PKPbc	22:02:42.825	0.1	19.5	2.34	TAS	m_e
RJOB	153.45	PKPbc	22:02:47.957		19.5	2.34	TAS	m_e
RJOB	153.45	PKPab	22:03:01.244		19.5	2.34	TAS	m_e
ROTZ	151.71	PKPbc	22:02:44.251	-0.4	19.5	2.34	TAS	m_e
STU	153.27	PKPbc	22:02:47.900		19.5	2.34	TAS	m_e
TANN	151.04	PKPbc	22:02:42.939	-0.1	19.5	2.34	TAS	m_e
TNS	151.98	PKPbc	22:02:45.277		19.5	2.34	TAS	m_e
TNS	151.98	PKPab	22:02:54.059		19.5	2.34	TAS	m_e
UBBA	151.15	PKPbc	22:02:42.768	0.1	19.5	2.34	TAS	m_e
WET	152.13	PKPab	22:02:54.686		19.5	2.34	TAS	m_e
WLF	152.81	PKPbc	22:02:47.385		19.5	2.34	TAS	m_e

Event 80818008 New Ireland, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/18	21:52:42.90			-4.8500	153.5400				60.0					125.17	125.17	m i ke	EMSC
80818040																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	125.17		PKP	22:11:36.571		48.2		1.11		TAS					m_e

Event 80819001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	00:19:37.30			-18.1300	-178.1400				558.0	7.2		33		142.60	149.76	m i k e	EMSC
80819033																	

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
AHRW	147.40		PKPdf	00:38:13.482	-0.2	16.8		1.81		TAS					m_e
AHRW	147.40		pPKPdf	00:40:35.142	-0.2					T__					m_e
BFO	149.42		PKPdf	00:38:15.959	-1.3	16.8		1.81		TAS					m_e
BRG	145.94		PKPdf	00:38:11.275	0.3	16.8		1.81		TAS					m_e
BSEG	143.67		PKPdf	00:38:06.188	-0.6	16.8		1.81		TAS					m_e
BUG	146.49		PKPdf	00:38:11.900	-0.1	16.8		1.81		TAS					m_e
CLL	145.74		PKPdf	00:38:10.732	0.2	16.8		1.81		TAS					m_e
CLZ	145.70		PKPdf	00:38:10.442	-0.0	16.8		1.81		TAS					m_e
FLT1	145.08		PKPdf	00:38:10.149	0.8	16.8		1.81		TAS					m_e
FUR	149.07		PKPdf	00:38:16.483	-0.1	16.8		1.81		TAS					m_e
GEC2	147.89		PKPdf	00:38:14.075	-0.5	16.8		1.81		TAS					m_e
GOR1	144.44		PKPdf	00:38:08.734	0.5	16.8		1.81		TAS					m_e
GRA1	147.62		PKPdf	00:38:14.583	0.6	16.8		1.81		TAS					m_e
GRA1	147.62		pPKPdf	00:40:36.752	-0.2					T__					m_e
GTTG	146.04		PKPdf	00:38:11.659	0.5	16.8		1.81		TAS					m_e
HLG	143.72		PKPdf	00:38:06.514	-0.5	16.8		1.81		TAS					m_e
IBBN	145.58		PKPdf	00:38:10.644	0.3	16.8		1.81		TAS					m_e
IBBN	145.58		pPKPdf	00:40:31.812	-0.2					T__					m_e
KAST	146.59		PKPdf	00:38:12.144	-0.0	16.8		1.81		TAS					m_e
KAST	146.59		pPKPdf	00:40:33.553	-0.2					T__					m_e
MANZ	147.17		PKPdf	00:38:13.392	0.2	16.8		1.81		TAS					m_e
MANZ	147.17		pPKPdf	00:40:34.991	-0.2					T__					m_e
MOX	146.64		PKPdf	00:38:12.215	0.0	16.8		1.81		TAS					m_e
NEUB	146.08		PKPdf	00:38:11.687	0.5	16.8		1.81		TAS					m_e
NRDL	145.10		PKPdf	00:38:10.244	0.8	16.8		1.81		TAS					m_e
PLN	146.68		PKPdf	00:38:12.556	0.3	16.8		1.81		TAS					m_e
RETH	144.97		PKPdf	00:38:09.731	0.5	16.8		1.81		TAS					m_e
RGN	142.60		PKPdf	00:38:02.247	-2.6	16.8		1.81		TAS					m_e
RJOB	149.14		PKPdf	00:38:15.917	-0.9	16.8		1.81		TAS					m_e
RJOB	149.14		pPKPdf	00:40:39.142	-0.2					T__					m_e
ROTZ	147.36		PKPdf	00:38:13.953	0.4	16.8		1.81		TAS					m_e
ROTZ	147.36		pPKPdf	00:40:35.339	-0.2					T__					m_e
RUE	144.47		PKPdf	00:38:08.625	0.3	16.8		1.81		TAS					m_e
STU	148.86		PKPdf	00:38:16.192	-0.0	16.8		1.81		TAS					m_e
STU	148.86		pPKPdf	00:40:39.262	-0.2					T__					m_e
TANN	146.69		PKPdf	00:38:12.507	0.2	16.8		1.81		TAS					m_e
TANN	146.69		pPKPdf	00:40:33.653	-0.2					T__					m_e
TNS	147.55		PKPdf	00:38:14.413	0.5	16.8		1.81		TAS					m_e
UBBA	146.75		PKPdf	00:38:12.950	0.6	16.8		1.81		TAS					m_e
UBBA	146.75		pPKPdf	00:40:33.488	-0.2					T__					m_e

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UBR	149.76	PKPdf	00:38:17.360	-0.5	16.8	1.81	TAS	m_e
WET	147.80	PKPdf	00:38:14.531	0.2	16.8	1.81	TAS	m_e
WET	147.80	pPKPdf	00:40:37.405	-0.2			T__	m_e
WLF	148.35	PKPdf	00:38:15.157	-0.3	16.8	1.81	TAS	m_e
WLF	148.35	pPKPdf	00:40:38.195	-0.2			T__	m_e

Event 80819002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	00:39:07.60			-17.8800	-177.9000				579.0					147.42	147.42	m i ke	EMSC
OrigID 80819034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.42		PKP	00:57:47.204		16.3		1.95		TAS					m_e

Event 80819007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	00:52:32.50			-18.2300	-178.2700				524.0					147.70	147.70	m i ke	EMSC
OrigID 80819039																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.70		PKP	01:11:17.879		17.1		1.98		TAS					m_e

Event 80819008 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	00:55:44.67			-18.5000	-177.5600				550.0				31	144.11	150.23	m i ke	BGR
OrigID 80819014																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.82		PKPdf	01:14:25.040		27.0		1.61		TAS					m_e
BFO	149.86		PKPdf	01:14:27.658		27.0		1.61		TAS					m_e
BFO	149.86		PKPbc	01:14:32.495		15.1		2.77		TAS					m_e

BFO	149.86	PKPab	01:14:39.075		12.1	4.12	TAS	m_e
BRG	146.43	PKPdf	01:14:21.304		27.0	1.61	TAS	m_e
BRG	146.43	PKPbc	01:14:23.555	0.3	15.1	2.77	TAS	m_e
BSEG	144.11	PKPbc	01:14:16.280	-0.1	15.1	2.77	TAS	m_e
CLL	146.21	PKPbc	01:14:22.938	0.1	15.1	2.77	TAS	m_e
CLZ	146.15	PKPbc	01:14:22.988	0.2	15.1	2.77	TAS	m_e
FLT1	145.54	PKPbc	01:14:20.564	0.4	15.1	2.77	TAS	m_e
FUR	149.55	PKPbc	01:14:31.822		15.1	2.77	TAS	m_e
FUR	149.55	PKPab	01:14:38.402		12.1	4.12	TAS	m_e
GEC2	148.38	PKPbc	01:14:28.971	-0.6	15.1	2.77	TAS	m_e
GOR1	144.89	PKPbc	01:14:18.932	0.1	15.1	2.77	TAS	m_e
GRA1	148.09	PKPdf	01:14:23.848		27.0	1.61	TAS	m_e
GRA1	148.09	PKPbc	01:14:28.239	-0.2	15.1	2.77	TAS	m_e
GRA1	148.09	PKPab	01:14:32.338		12.1	4.12	TAS	m_e
GTTG	146.49	PKPbc	01:14:23.961	0.2	15.1	2.77	TAS	m_e
HLG	144.14	PKPbc	01:14:16.872	-0.7	15.1	2.77	TAS	m_e
IBBN	146.01	PKPbc	01:14:22.356	-0.3	15.1	2.77	TAS	m_e
KAST	147.03	PKPdf	01:14:22.540		27.0	1.61	TAS	m_e
KAST	147.03	PKPbc	01:14:25.255	0.0	15.1	2.77	TAS	m_e
MANZ	147.64	PKPdf	01:14:23.333		27.0	1.61	TAS	m_e
MANZ	147.64	PKPbc	01:14:27.068	-0.1	15.1	2.77	TAS	m_e
MOX	147.10	PKPdf	01:14:22.632		27.0	1.61	TAS	m_e
MOX	147.10	PKPbc	01:14:25.263	0.2	15.1	2.77	TAS	m_e
MOX	147.10	PKPab	01:14:27.951		12.1	4.12	TAS	m_e
NEUB	146.55	PKPdf	01:14:21.484		27.0	1.61	TAS	m_e
NEUB	146.55	PKPbc	01:14:23.908	0.1	15.1	2.77	TAS	m_e
NRDL	145.55	PKPbc	01:14:20.788	-0.3	15.1	2.77	TAS	m_e
PLN	147.16	PKPdf	01:14:22.610		27.0	1.61	TAS	m_e
PLN	147.16	PKPbc	01:14:25.702	0.3	15.1	2.77	TAS	m_e
RETH	145.41	PKPbc	01:14:20.672	-0.1	15.1	2.77	TAS	m_e
RJOB	149.63	PKPbc	01:14:31.651		15.1	2.77	TAS	m_e
RJOB	149.63	PKPab	01:14:38.997		12.1	4.12	TAS	m_e
ROTZ	147.84	PKPbc	01:14:27.605	0.0	15.1	2.77	TAS	m_e
ROTZ	147.84	PKPab	01:14:31.483		12.1	4.12	TAS	m_e
RUE	144.95	PKPbc	01:14:18.978	0.0	15.1	2.77	TAS	m_e
STU	149.31	PKPdf	01:14:26.349		27.0	1.61	TAS	m_e
STU	149.31	PKPab	01:14:37.132		12.1	4.12	TAS	m_e
TANN	147.17	PKPdf	01:14:22.711		27.0	1.61	TAS	m_e
TANN	147.17	PKPbc	01:14:25.702	0.3	15.1	2.77	TAS	m_e
TNS	147.99	PKPbc	01:14:27.898	0.3	15.1	2.77	TAS	m_e
TNS	147.99	PKPab	01:14:31.419		12.1	4.12	TAS	m_e
UBBA	147.20	PKPbc	01:14:25.507	0.3	15.1	2.77	TAS	m_e
UBR	150.23	PKPdf	01:14:27.184		27.0	1.61	TAS	m_e
UBR	150.23	PKPbc	01:14:33.295		15.1	2.77	TAS	m_e
WET	148.29	PKPbc	01:14:28.532	-0.7	15.1	2.77	TAS	m_e
WET	148.29	PKPab	01:14:33.363		12.1	4.12	TAS	m_e
WLF	148.77	PKPdf	01:14:26.581		27.0	1.61	TAS	m_e
WLF	148.77	PKPbc	01:14:30.386	-0.4	15.1	2.77	TAS	m_e

Event 80819009 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	00:58:31.90			-17.8900	-177.9900				526.0					147.42	147.42	m i ke	EMSC
OrigID 80819041																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.42		PKP	01:17:17.442		16.4		1.99		TAS					m_e

Event 80819020 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	01:34:20.90			-17.5200	-178.5900				490.0					146.94	146.94	m i ke	EMSC
OrigID 80819052																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.94		PKP	01:53:07.869		17.3		2.02		TAS					m_e

Event 80819029 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	02:18:50.72			-19.6900	-177.1000				642.9	2.3		32		145.34	151.47	m i ke	BGR
OrigID 80819035																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.04		PKPdf	02:37:23.450	-0.1	17.6		1.43		TAS					m_e
AHRW	149.04		PKPbc	02:37:27.724	-0.3	15.0		2.76		TAS					m_e
AHRW	149.04		pPKPbc	02:39:52.742						T__					m_e
BFO	151.09		PKPdf	02:37:26.428		17.6		1.43		TAS					m_e
BFO	151.09		PKPbc	02:37:32.869		15.0		2.76		TAS					m_e
BFO	151.09		pPKPbc	02:39:57.391						T__					m_e
BRG	147.68		PKPdf	02:37:21.432	-0.4	17.6		1.43		TAS					m_e
BRG	147.68		PKPbc	02:37:24.108	-0.3	15.0		2.76		TAS					m_e
BSEG	145.34		PKPbc	02:37:17.254	-0.4	15.0		2.76		TAS					m_e

BUG	148.13	PKPpdf	02:37:22.201	0.1	17.6	1.43	TAS	m_e
BUG	148.13	PKPbc	02:37:25.133	0.3	15.0	2.76	TAS	m_e
BUG	148.13	pPKPbc	02:39:49.485				T__	m_e
CLL	147.46	PKPpdf	02:37:21.432	-0.1	17.6	1.43	TAS	m_e
CLL	147.46	PKPbc	02:37:23.566	0.3	15.0	2.76	TAS	m_e
CLZ	147.38	PKPpdf	02:37:21.192	0.1	17.6	1.43	TAS	m_e
CLZ	147.38	PKPbc	02:37:23.498	0.1	15.0	2.76	TAS	m_e
FLT1	146.78	PKPbc	02:37:21.240	0.1	15.0	2.76	TAS	m_e
FUR	150.80	PKPpdf	02:37:26.091		17.6	1.43	TAS	m_e
FUR	150.80	PKPbc	02:37:32.079		15.0	2.76	TAS	m_e
FUR	150.80	pPKPbc	02:39:56.929				T__	m_e
GEC2	149.64	PKPpdf	02:37:24.026		17.6	1.43	TAS	m_e
GEC2	149.64	PKPbc	02:37:29.165		15.0	2.76	TAS	m_e
GEC2	149.64	pPKPbc	02:39:53.970				T__	m_e
GOR1	146.13	PKPbc	02:37:19.223	-0.3	15.0	2.76	TAS	m_e
GRA1	149.34	PKPpdf	02:37:24.026		17.6	1.43	TAS	m_e
GRA1	149.34	PKPbc	02:37:28.781	-0.5	15.0	2.76	TAS	m_e
GRA1	149.34	pPKPbc	02:39:53.124				T__	m_e
GTTG	147.73	PKPpdf	02:37:21.817	0.1	17.6	1.43	TAS	m_e
GTTG	147.73	PKPbc	02:37:24.362	0.2	15.0	2.76	TAS	m_e
HLG	145.35	PKPbc	02:37:17.502	-0.2	15.0	2.76	TAS	m_e
IBBN	147.23	PKPbc	02:37:22.969	0.2	15.0	2.76	TAS	m_e
KAST	148.25	PKPpdf	02:37:22.489	-0.2	17.6	1.43	TAS	m_e
KAST	148.25	PKPbc	02:37:25.815	0.2	15.0	2.76	TAS	m_e
MANZ	148.89	PKPpdf	02:37:23.210	0.0	17.6	1.43	TAS	m_e
MANZ	148.89	PKPbc	02:37:27.523	-0.2	15.0	2.76	TAS	m_e
MOX	148.35	PKPpdf	02:37:22.441	-0.3	17.6	1.43	TAS	m_e
NEUB	147.79	PKPpdf	02:37:22.009	0.1	17.6	1.43	TAS	m_e
NRDL	146.78	PKPbc	02:37:21.529	-0.2	15.0	2.76	TAS	m_e
PLN	148.40	PKPpdf	02:37:22.633	0.5	17.6	1.43	TAS	m_e
PLN	148.40	PKPbc	02:37:26.181	0.1	15.0	2.76	TAS	m_e
RETH	146.63	PKPbc	02:37:21.144	0.1	15.0	2.76	TAS	m_e
RJOB	150.89	PKPpdf	02:37:26.139		17.6	1.43	TAS	m_e
RJOB	150.89	pPKPbc	02:39:56.842				T__	m_e
ROTZ	149.08	PKPpdf	02:37:23.594	0.1	17.6	1.43	TAS	m_e
ROTZ	149.08	PKPbc	02:37:27.903	0.3	15.0	2.76	TAS	m_e
ROTZ	149.08	pPKPbc	02:39:52.960				T__	m_e
RUE	146.20	PKPbc	02:37:19.588	0.0	15.0	2.76	TAS	m_e
STU	150.55	PKPpdf	02:37:25.851		17.6	1.43	TAS	m_e
STU	150.55	pPKPbc	02:39:56.043				T__	m_e
TANN	148.41	PKPpdf	02:37:22.729	0.1	17.6	1.43	TAS	m_e
TANN	148.41	PKPbc	02:37:26.241	0.3	15.0	2.76	TAS	m_e
TANN	148.41	pPKPbc	02:39:50.877				T__	m_e
TNS	149.22	PKPpdf	02:37:24.026		17.6	1.43	TAS	m_e
TNS	149.22	PKPbc	02:37:28.541	-0.5	15.0	2.76	TAS	m_e
TNS	149.22	pPKPbc	02:39:52.977				T__	m_e
UBBA	148.43	PKPpdf	02:37:22.633	0.1	17.6	1.43	TAS	m_e
UBBA	148.43	pPKPbc	02:39:50.916				T__	m_e
UBR	151.47	PKPpdf	02:37:27.052		17.6	1.43	TAS	m_e

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WET	149.54	PKPdf	02:37:24.026	17.6	1.43	TAS	m_e
WET	149.54	PKPbc	02:37:28.925	15.0	2.76	TAS	m_e
WET	149.54	pPKPbc	02:39:53.319			T__	m_e
WLF	149.98	PKPdf	02:37:25.707	17.6	1.43	TAS	m_e
WLF	149.98	PKPbc	02:37:30.882	15.0	2.76	TAS	m_e
WLF	149.98	pPKPbc	02:39:55.295			T__	m_e

Event 80819036 Volcano Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	04:05:44.00			23.5400	143.5000				10.0					95.68	95.68	m i ke	EMSC
80819068																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	80819042

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	95.68		P	04:19:26.732		43.0		4.08		TAS		2.5	0.89	m_e mb	4.7

Event 80819039 Sumbawa, Indonesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	04:10:23.10			-8.3500	116.5900				20.0				24	104.41	108.78	m i ke	EMSC
80819071																	

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
AHRW	108.78		PKiKP	04:28:49.803		84.8		1.80		TAS					m_e
BFO	108.32		PKKPdf	04:40:01.133		261.6		3.22		TAS					m_e
BRG	104.41		PKiKP	04:28:42.325	0.4	84.8		1.80		TAS					m_e
BRG	104.41		PKKPdf	04:40:13.742	-0.3	261.6		3.22		TAS					m_e
BSEG	106.28		PKKPdf	04:40:08.418	0.4	261.6		3.22		TAS					m_e
BUG	108.51		PKKPdf	04:40:00.668		261.6		3.22		TAS					m_e
CLL	104.97		PKKPdf	04:40:12.115	0.1	261.6		3.22		TAS					m_e
CLZ	106.53		PKiKP	04:28:46.331		84.8		1.80		TAS					m_e
CLZ	106.53		PKKPdf	04:40:07.416	0.3	261.6		3.22		TAS					m_e
FLT1	105.94		PKKPdf	04:40:09.010	0.0	261.6		3.22		TAS					m_e
FUR	106.39		PKiKP	04:28:45.663		84.8		1.80		TAS					m_e
GEC2	104.72		PKiKP	04:28:43.393	0.1	84.8		1.80		TAS					m_e
GEC2	104.72		PKKPdf	04:40:12.707	0.2	261.6		3.22		TAS					m_e
GOR1	105.82		PKKPdf	04:40:09.971	-0.4	261.6		3.22		TAS					m_e
GRA1	106.26		PKKPdf	04:40:08.788	-0.1	261.6		3.22		TAS					m_e



HLG	107.65	PKiKP	04:28:48.735	84.8	1.80	TAS	m_e
HLG	107.65	PKKPdf	04:40:04.623	261.6	3.22	TAS	m_e
IBBN	108.06	PKiKP	04:28:49.536	84.8	1.80	TAS	m_e
KAST	107.84	PKiKP	04:28:48.601	84.8	1.80	TAS	m_e
KAST	107.84	PKKPdf	04:40:02.529	261.6	3.22	TAS	m_e
MANZ	105.66	PKiKP	04:28:44.595	0.8 84.8	1.80	TAS	m_e
MANZ	105.66	PKKPdf	04:40:10.119	0.1 261.6	3.22	TAS	m_e
MOX	105.91	PKKPdf	04:40:09.453	0.7 261.6	3.22	TAS	m_e
NEUB	105.75	PKKPdf	04:40:10.119	0.1 261.6	3.22	TAS	m_e
NRDL	106.61	PKiKP	04:28:46.464	84.8	1.80	TAS	m_e
NRDL	106.61	PKKPdf	04:40:07.648	-0.7 261.6	3.22	TAS	m_e
PLN	105.58	PKKPdf	04:40:10.341	0.0 261.6	3.22	TAS	m_e
RJOB	105.41	PKiKP	04:28:44.328	-0.1 84.8	1.80	TAS	m_e
RJOB	105.41	PKKPdf	04:40:10.562	0.3 261.6	3.22	TAS	m_e
ROTZ	105.62	PKKPdf	04:40:10.489	0.2 261.6	3.22	TAS	m_e
STU	107.69	PKiKP	04:28:49.135	84.8	1.80	TAS	m_e
STU	107.69	PKKPdf	04:40:03.693	261.6	3.22	TAS	m_e
TANN	105.39	PKKPdf	04:40:11.154	-0.1 261.6	3.22	TAS	m_e
TNS	107.97	PKiKP	04:28:48.601	84.8	1.80	TAS	m_e
TNS	107.97	PKKPdf	04:40:02.529	261.6	3.22	TAS	m_e
UBR	107.22	PKiKP	04:28:47.399	84.8	1.80	TAS	m_e
UBR	107.22	PKKPdf	04:40:05.089	261.6	3.22	TAS	m_e
WET	105.24	PKiKP	04:28:43.526	-0.3 84.8	1.80	TAS	m_e
WET	105.24	PKKPdf	04:40:11.598	-0.1 261.6	3.22	TAS	m_e

Event 80819040 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	04:28:55.95			-18.7800	-178.8700				423.6	11.1		29		144.20	150.26	m i ke	BGR
80819046																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.96		PKPdf	04:47:49.054	-0.2	18.5		1.62		TAS					m_e
AHRW	147.96		PKPbc	04:47:51.612		16.5		2.97		TAS					m_e
AHRW	147.96		pPKPbc	04:49:32.420	0.7					T__					m_e
BFO	149.95		PKPdf	04:47:52.220		18.5		1.62		TAS					m_e
BFO	149.95		PKPbc	04:47:56.911		16.5		2.97		TAS					m_e
BRG	146.40		PKPdf	04:47:46.841	0.7	18.5		1.62		TAS					m_e
BSEG	144.20		PKPdf	04:47:38.778	-1.0	18.5		1.62		TAS					m_e
BUG	147.05		PKPdf	04:47:47.702	0.2	18.5		1.62		TAS					m_e
CLL	146.21		PKPdf	04:47:46.027	0.7	18.5		1.62		TAS					m_e
CLZ	146.21		PKPdf	04:47:45.938	0.9	18.5		1.62		TAS					m_e
FLT1	145.59		PKPdf	04:47:43.034	0.7	18.5		1.62		TAS					m_e
FUR	149.55		PKPdf	04:47:51.625		18.5		1.62		TAS					m_e

FUR	149.55	PKPbc	04:47:56.020		16.5	2.97	TAS	m_e
GEC2	148.33	PKPdf	04:47:49.747	-0.8	18.5	1.62	TAS	m_e
GEC2	148.33	PKPbc	04:47:52.911		16.5	2.97	TAS	m_e
GEC2	148.33	pPKPbc	04:49:34.514	0.7			T__	m_e
GRA1	148.11	PKPdf	04:47:49.289	-0.7	18.5	1.62	TAS	m_e
GRA1	148.11	PKPbc	04:47:52.103		16.5	2.97	TAS	m_e
GRA1	148.11	pPKPbc	04:49:33.118	0.7			T__	m_e
GTTG	146.57	PKPdf	04:47:47.030	0.8	18.5	1.62	TAS	m_e
IBBN	146.14	PKPdf	04:47:45.446	1.1	18.5	1.62	TAS	m_e
MANZ	147.65	PKPdf	04:47:48.461	0.1	18.5	1.62	TAS	m_e
MANZ	147.65	pPKPbc	04:49:31.489	0.7			T__	m_e
MOX	147.13	PKPdf	04:47:47.889	0.1	18.5	1.62	TAS	m_e
MOX	147.13	PKPbc	04:47:48.529	-0.3	16.5	2.97	TAS	m_e
NEUB	146.57	PKPdf	04:47:46.943	0.6	18.5	1.62	TAS	m_e
NRDL	145.63	PKPdf	04:47:43.436	0.7	18.5	1.62	TAS	m_e
PLN	147.16	PKPdf	04:47:48.153	0.1	18.5	1.62	TAS	m_e
RETH	145.51	PKPdf	04:47:43.123	0.4	18.5	1.62	TAS	m_e
RJOB	149.59	PKPdf	04:47:51.752		18.5	1.62	TAS	m_e
RJOB	149.59	PKPbc	04:47:56.130		16.5	2.97	TAS	m_e
ROTZ	147.83	PKPdf	04:47:48.834	0.3	18.5	1.62	TAS	m_e
ROTZ	147.83	PKPbc	04:47:51.515		16.5	2.97	TAS	m_e
ROTZ	147.83	pPKPbc	04:49:32.420	0.7			T__	m_e
RUE	144.94	PKPdf	04:47:41.649	-0.5	18.5	1.62	TAS	m_e
STU	149.38	PKPdf	04:47:51.969		18.5	1.62	TAS	m_e
STU	149.38	PKPbc	04:47:55.544		16.5	2.97	TAS	m_e
TANN	147.17	PKPdf	04:47:47.978	0.3	18.5	1.62	TAS	m_e
TANN	147.17	PKPbc	04:47:49.512	-0.5	16.5	2.97	TAS	m_e
TNS	148.09	PKPdf	04:47:49.403	0.1	18.5	1.62	TAS	m_e
TNS	148.09	PKPbc	04:47:51.994		16.5	2.97	TAS	m_e
TNS	148.09	pPKPbc	04:49:32.885	0.7			T__	m_e
UBBA	147.26	PKPdf	04:47:47.662	0.0	18.5	1.62	TAS	m_e
UBBA	147.26	PKPbc	04:47:50.450		16.5	2.97	TAS	m_e
UBBA	147.26	pPKPbc	04:49:28.930	0.7			T__	m_e
UBR	150.26	PKPdf	04:47:52.709		18.5	1.62	TAS	m_e
UBR	150.26	PKPbc	04:47:57.629		16.5	2.97	TAS	m_e
WET	148.26	PKPdf	04:47:49.817	-0.8	18.5	1.62	TAS	m_e
WET	148.26	PKPbc	04:47:52.676		16.5	2.97	TAS	m_e
WET	148.26	pPKPbc	04:49:34.281	0.7			T__	m_e
WLF	148.93	PKPdf	04:47:51.235	-1.1	18.5	1.62	TAS	m_e
WLF	148.93	PKPbc	04:47:54.718		16.5	2.97	TAS	m_e

Event 80819041 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	05:12:04.16			41.0870	145.4160				33.0					81.05	81.05	m i ke	BGR
80819047																	

Magnitude Err Nsta Author OrigID  
 mb 4.6 BGR 80819047

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 81.05 P 05:24:14.830 26.9 4.21 TAS 7.0 1.18 m\_e mb 4.6

Event 80819042 Fiji Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2018/08/19 05:19:57.70 -17.8300 -179.7000 632.0 147.02 147.02 m i ke EMSC  
 80819074

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 147.02 PKP 05:38:30.803 19.4 2.07 TAS m\_e

Event 80819044 Fiji Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2018/08/19 05:45:22.83 -18.6600 -177.2000 500.0 31 144.32 150.45 m i ke BGR  
 80819050

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 AHRW 148.01 PKPpdf 06:04:06.869 -0.2 15.9 1.63 TAS m\_e  
 AHRW 148.01 PKPab 06:04:13.687 11.6 4.04 TAS m\_e  
 BFO 150.06 PKPbc 06:04:16.278 16.0 2.66 TAS m\_e  
 BFO 150.06 PKPab 06:04:22.110 11.6 4.04 TAS m\_e  
 BRG 146.66 PKPpdf 06:04:05.102 0.6 15.9 1.63 TAS m\_e  
 BRG 146.66 PKPbc 06:04:07.000 0.2 16.0 2.66 TAS m\_e  
 BSEG 144.32 PKPpdf 06:03:59.784 -0.8 15.9 1.63 TAS m\_e  
 BUG 147.10 PKPpdf 06:04:06.089 0.0 15.9 1.63 TAS m\_e  
 BUG 147.10 PKPbc 06:04:08.272 0.2 16.0 2.66 TAS m\_e  
 CLL 146.44 PKPpdf 06:04:04.433 0.4 15.9 1.63 TAS m\_e  
 CLL 146.44 PKPbc 06:04:06.209 -0.1 16.0 2.66 TAS m\_e  
 CLZ 146.35 PKPpdf 06:04:04.739 -0.0 15.9 1.63 TAS m\_e  
 CLZ 146.35 PKPbc 06:04:06.450 0.1 16.0 2.66 TAS m\_e  
 FLT1 145.75 PKPpdf 06:04:03.803 0.5 15.9 1.63 TAS m\_e  
 FUR 149.77 PKPbc 06:04:15.416 16.0 2.66 TAS m\_e  
 FUR 149.77 PKPab 06:04:21.572 11.6 4.04 TAS m\_e

GEC2	148.62	PKPdf	06:04:07.814	15.9	1.63	TAS	m_e
GEC2	148.62	PKPbc	06:04:12.124	16.0	2.66	TAS	m_e
GEC2	148.62	PKPab	06:04:17.482	11.6	4.04	TAS	m_e
GRA1	148.31	PKPdf	06:04:07.657	15.9	1.63	TAS	m_e
GRA1	148.31	PKPbc	06:04:12.281	16.0	2.66	TAS	m_e
GRA1	148.31	PKPab	06:04:15.651	11.6	4.04	TAS	m_e
GTTG	146.70	PKPdf	06:04:04.821	0.2 15.9	1.63	TAS	m_e
GTTG	146.70	PKPbc	06:04:07.254	0.3 16.0	2.66	TAS	m_e
HLG	144.33	PKPdf	06:04:00.423	-0.0 15.9	1.63	TAS	m_e
IBBN	146.20	PKPdf	06:04:04.718	0.3 15.9	1.63	TAS	m_e
KAST	147.22	PKPdf	06:04:06.415	-0.1 15.9	1.63	TAS	m_e
KAST	147.22	PKPbc	06:04:08.847	-0.3 16.0	2.66	TAS	m_e
MANZ	147.87	PKPbc	06:04:10.322	-0.0 16.0	2.66	TAS	m_e
MOX	147.32	PKPdf	06:04:05.978	-0.3 15.9	1.63	TAS	m_e
MOX	147.32	PKPbc	06:04:08.978	-0.2 16.0	2.66	TAS	m_e
NEUB	146.77	PKPbc	06:04:07.265	0.7 16.0	2.66	TAS	m_e
NRDL	145.75	PKPdf	06:04:03.973	0.5 15.9	1.63	TAS	m_e
PLN	147.38	PKPdf	06:04:05.893	-0.7 15.9	1.63	TAS	m_e
PLN	147.38	PKPbc	06:04:09.672	0.3 16.0	2.66	TAS	m_e
RETH	145.61	PKPdf	06:04:03.673	0.5 15.9	1.63	TAS	m_e
RJOB	149.87	PKPbc	06:04:15.416	16.0	2.66	TAS	m_e
RJOB	149.87	PKPab	06:04:22.146	11.6	4.04	TAS	m_e
ROTZ	148.06	PKPdf	06:04:06.325	-0.2 15.9	1.63	TAS	m_e
ROTZ	148.06	PKPbc	06:04:11.105	16.0	2.66	TAS	m_e
RUE	145.17	PKPdf	06:04:02.296	0.5 15.9	1.63	TAS	m_e
STU	149.52	PKPbc	06:04:15.102	16.0	2.66	TAS	m_e
STU	149.52	PKPab	06:04:20.240	11.6	4.04	TAS	m_e
TANN	147.39	PKPdf	06:04:05.934	-0.5 15.9	1.63	TAS	m_e
TANN	147.39	PKPbc	06:04:09.281	-0.0 16.0	2.66	TAS	m_e
TNS	148.19	PKPdf	06:04:06.795	15.9	1.63	TAS	m_e
TNS	148.19	PKPbc	06:04:11.704	16.0	2.66	TAS	m_e
TNS	148.19	PKPab	06:04:14.655	11.6	4.04	TAS	m_e
UBBA	147.41	PKPdf	06:04:05.854	0.2 15.9	1.63	TAS	m_e
UBBA	147.41	PKPbc	06:04:09.360	-0.3 16.0	2.66	TAS	m_e
UBR	150.45	PKPbc	06:04:16.905	16.0	2.66	TAS	m_e
WET	148.52	PKPdf	06:04:07.500	15.9	1.63	TAS	m_e
WET	148.52	PKPbc	06:04:12.359	16.0	2.66	TAS	m_e
WET	148.52	PKPab	06:04:16.493	11.6	4.04	TAS	m_e
WLF	148.95	PKPdf	06:04:08.519	15.9	1.63	TAS	m_e
WLF	148.95	PKPbc	06:04:13.535	16.0	2.66	TAS	m_e
WLF	148.95	PKPab	06:04:17.970	11.6	4.04	TAS	m_e

Event 80819045 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	05:58:36.75			-18.5500	-178.4800				512.8	5.8		29		144.81	150.11	m i ke	BGR

80819051

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	147.78		PKPdf	06:17:20.353	-0.5	23.1		1.66		TAS					m_e	
AHRW	147.78		PKPbc	06:17:23.351		18.7		2.62		TAS					m_e	
AHRW	147.78		PKPab	06:17:26.093		13.9		4.18		TAS					m_e	
BFO	149.78		PKPbc	06:17:28.042		18.7		2.62		TAS					m_e	
BFO	149.78		PKPab	06:17:34.375		13.9		4.18		TAS					m_e	
BRG	146.27		PKPdf	06:17:17.064	-0.3	23.1		1.66		TAS					m_e	
BRG	146.27		PKPbc	06:17:18.936	0.0	18.7		2.62		TAS					m_e	
BUG	146.87		PKPdf	06:17:18.952	-0.2	23.1		1.66		TAS					m_e	
CLL	146.07		PKPdf	06:17:16.764	0.2	23.1		1.66		TAS					m_e	
CLL	146.07		PKPbc	06:17:18.120	0.2	18.7		2.62		TAS					m_e	
CLZ	146.05		PKPdf	06:17:16.869	0.0	23.1		1.66		TAS					m_e	
CLZ	146.05		PKPbc	06:17:18.238	0.1	18.7		2.62		TAS					m_e	
FLT1	145.44		PKPdf	06:17:15.856	-0.1	23.1		1.66		TAS					m_e	
FUR	149.41		PKPdf	06:17:21.684		23.1		1.66		TAS					m_e	
FUR	149.41		PKPbc	06:17:27.393		18.7		2.62		TAS					m_e	
FUR	149.41		PKPab	06:17:33.563		13.9		4.18		TAS					m_e	
GEC2	148.21		PKPdf	06:17:20.166		23.1		1.66		TAS					m_e	
GEC2	148.21		PKPbc	06:17:24.076		18.7		2.62		TAS					m_e	
GEC2	148.21		PKPab	06:17:29.179		13.9		4.18		TAS					m_e	
GEC2	148.21		pPKPbc	06:19:24.144						T__					m_e	
GRA1	147.97		PKPdf	06:17:19.977		23.1		1.66		TAS					m_e	
GRA1	147.97		PKPbc	06:17:23.658		18.7		2.62		TAS					m_e	
GRA1	147.97		PKPab	06:17:27.717		13.9		4.18		TAS					m_e	
GRA1	147.97		pPKPbc	06:19:23.658						T__					m_e	
GTTG	146.41		PKPdf	06:17:17.276	-0.2	23.1		1.66		TAS					m_e	
GTTG	146.41		PKPbc	06:17:19.318	0.1	18.7		2.62		TAS					m_e	
IBBN	145.96		PKPdf	06:17:17.431	-0.3	23.1		1.66		TAS					m_e	
KAST	146.96		PKPdf	06:17:18.408	0.1	23.1		1.66		TAS					m_e	
KAST	146.96		PKPab	06:17:22.683		13.9		4.18		TAS					m_e	
MANZ	147.51		PKPbc	06:17:22.304	-0.3	18.7		2.62		TAS					m_e	
MANZ	147.51		PKPab	06:17:25.173		13.9		4.18		TAS					m_e	
MANZ	147.51		pPKPbc	06:19:21.714						T__					m_e	
MOX	146.98		PKPdf	06:17:18.268	0.4	23.1		1.66		TAS					m_e	
MOX	146.98		PKPbc	06:17:20.897	0.2	18.7		2.62		TAS					m_e	
MOX	146.98		PKPab	06:17:22.683		13.9		4.18		TAS					m_e	
NEUB	146.43		PKPdf	06:17:17.420	0.1	23.1		1.66		TAS					m_e	
NEUB	146.43		PKPbc	06:17:19.400	0.3	18.7		2.62		TAS					m_e	
NRDL	145.46		PKPdf	06:17:16.190	0.1	23.1		1.66		TAS					m_e	
PLN	147.02		PKPdf	06:17:18.099	0.4	23.1		1.66		TAS					m_e	
PLN	147.02		PKPbc	06:17:20.518	-0.3	18.7		2.62		TAS					m_e	
PLN	147.02		PKPab	06:17:23.387		13.9		4.18		TAS					m_e	
RETH	145.34		PKPdf	06:17:15.908	0.1	23.1		1.66		TAS					m_e	
RJOB	149.47		PKPbc	06:17:27.014		18.7		2.62		TAS					m_e	
RJOB	149.47		PKPab	06:17:34.105		13.9		4.18		TAS					m_e	

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ROTZ	147.69	PKPdf	06:17:19.743	-0.1	23.1	1.66	TAS	m_e
ROTZ	147.69	PKPbc	06:17:22.846		18.7	2.62	TAS	m_e
ROTZ	147.69	pPKPbc	06:19:23.182				T__	m_e
RUE	144.81	PKPdf	06:17:14.195	0.1	23.1	1.66	TAS	m_e
STU	149.22	PKPdf	06:17:22.032		23.1	1.66	TAS	m_e
STU	149.22	PKPbc	06:17:26.851		18.7	2.62	TAS	m_e
STU	149.22	PKPab	06:17:32.210		13.9	4.18	TAS	m_e
TANN	147.03	PKPdf	06:17:18.331	0.1	23.1	1.66	TAS	m_e
TANN	147.03	PKPbc	06:17:21.222	0.3	18.7	2.62	TAS	m_e
TANN	147.03	PKPab	06:17:23.062		13.9	4.18	TAS	m_e
TNS	147.92	PKPbc	06:17:23.463		18.7	2.62	TAS	m_e
TNS	147.92	PKPab	06:17:26.960		13.9	4.18	TAS	m_e
TNS	147.92	pPKPbc	06:19:23.343				T__	m_e
UBBA	147.10	PKPdf	06:17:18.424	0.1	23.1	1.66	TAS	m_e
UBBA	147.10	PKPbc	06:17:21.051	-0.2	18.7	2.62	TAS	m_e
UBBA	147.10	PKPab	06:17:24.361		13.9	4.18	TAS	m_e
UBBA	147.10	pPKPbc	06:19:19.795				T__	m_e
UBR	150.11	PKPbc	06:17:28.638		18.7	2.62	TAS	m_e
WET	148.13	PKPdf	06:17:20.372		23.1	1.66	TAS	m_e
WET	148.13	PKPbc	06:17:23.919		18.7	2.62	TAS	m_e
WET	148.13	PKPab	06:17:28.367		13.9	4.18	TAS	m_e
WET	148.13	pPKPbc	06:19:24.108				T__	m_e
WLF	148.74	PKPdf	06:17:21.935		23.1	1.66	TAS	m_e
WLF	148.74	PKPbc	06:17:26.141		18.7	2.62	TAS	m_e
WLF	148.74	PKPab	06:17:30.153		13.9	4.18	TAS	m_e
WLF	148.74	pPKPbc	06:19:26.727				T__	m_e

Event 80819048 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	06:36:54.97			-18.3100	-177.1400				534.0	4.9		31		143.98	150.11	m i ke	BGR
	80819054																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.67		PKPdf	06:55:36.577	0.0	23.5		1.81		TAS					m_e
AHRW	147.67		PKPbc	06:55:39.271	0.1	17.0		2.61		TAS					m_e
AHRW	147.67		PKPab	06:55:41.734		11.8		4.17		TAS					m_e
BFO	149.73		PKPdf	06:55:39.618		23.5		1.81		TAS					m_e
BFO	149.73		PKPbc	06:55:43.961		17.0		2.61		TAS					m_e
BFO	149.73		PKPab	06:55:50.485		11.8		4.17		TAS					m_e
BFO	149.73		pPKPbc	06:57:48.901						T__					m_e
BRG	146.33		PKPdf	06:55:32.749	0.3	23.5		1.81		TAS					m_e
BRG	146.33		PKPbc	06:55:35.066	0.3	17.0		2.61		TAS					m_e
BRG	146.33		PKPab	06:55:36.847		11.8		4.17		TAS					m_e

BSEG	143.98	PKPdf	06:55:27.928	0.1	23.5	1.81	TAS	m_e
BUG	146.76	PKPdf	06:55:34.707	0.0	23.5	1.81	TAS	m_e
BUG	146.76	PKPbc	06:55:36.449	0.1	17.0	2.61	TAS	m_e
BUG	146.76	PKPab	06:55:37.746	0.1	11.8	4.17	TAS	m_e
CLL	146.11	PKPdf	06:55:32.448	0.1	23.5	1.81	TAS	m_e
CLL	146.11	PKPbc	06:55:34.371	0.3	17.0	2.61	TAS	m_e
CLL	146.11	PKPab	06:55:35.763	0.1	11.8	4.17	TAS	m_e
CLZ	146.02	PKPdf	06:55:33.010	0.1	23.5	1.81	TAS	m_e
CLZ	146.02	PKPbc	06:55:34.481	-0.2	17.0	2.61	TAS	m_e
FLT1	145.42	PKPdf	06:55:31.750	0.0	23.5	1.81	TAS	m_e
FUR	149.44	PKPdf	06:55:38.264		23.5	1.81	TAS	m_e
FUR	149.44	PKPbc	06:55:43.270		17.0	2.61	TAS	m_e
FUR	149.44	PKPab	06:55:49.408		11.8	4.17	TAS	m_e
GEC2	148.30	PKPbc	06:55:40.231		17.0	2.61	TAS	m_e
GEC2	148.30	pPKPbc	06:57:44.414				T__	m_e
GOR1	144.77	PKPdf	06:55:30.117	0.2	23.5	1.81	TAS	m_e
GRA1	147.98	PKPdf	06:55:35.672	0.1	23.5	1.81	TAS	m_e
GRA1	147.98	PKPbc	06:55:39.725		17.0	2.61	TAS	m_e
GRA1	147.98	PKPab	06:55:43.639		11.8	4.17	TAS	m_e
GRA1	147.98	pPKPbc	06:57:43.301				T__	m_e
GTTG	146.36	PKPdf	06:55:33.390	-0.2	23.5	1.81	TAS	m_e
GTTG	146.36	PKPbc	06:55:35.522	0.2	17.0	2.61	TAS	m_e
IBBN	145.86	PKPdf	06:55:33.616	0.3	23.5	1.81	TAS	m_e
KAST	146.89	PKPdf	06:55:34.394	-0.1	23.5	1.81	TAS	m_e
KAST	146.89	PKPbc	06:55:36.736	0.3	17.0	2.61	TAS	m_e
KAST	146.89	PKPab	06:55:38.446	-0.2	11.8	4.17	TAS	m_e
MANZ	147.54	PKPdf	06:55:35.286	-0.2	23.5	1.81	TAS	m_e
MANZ	147.54	PKPbc	06:55:38.573	-0.0	17.0	2.61	TAS	m_e
MANZ	147.54	pPKPbc	06:57:41.886				T__	m_e
MOX	146.99	PKPdf	06:55:34.117	0.1	23.5	1.81	TAS	m_e
MOX	146.99	PKPbc	06:55:36.991	-0.0	17.0	2.61	TAS	m_e
MOX	146.99	PKPab	06:55:39.320		11.8	4.17	TAS	m_e
NEUB	146.43	PKPdf	06:55:33.179	-0.0	23.5	1.81	TAS	m_e
NEUB	146.43	PKPbc	06:55:35.382	0.3	17.0	2.61	TAS	m_e
NEUB	146.43	PKPab	06:55:36.817	-0.3	11.8	4.17	TAS	m_e
NRDL	145.42	PKPdf	06:55:31.958	0.6	23.5	1.81	TAS	m_e
PLN	147.05	PKPdf	06:55:34.247	0.3	23.5	1.81	TAS	m_e
PLN	147.05	PKPbc	06:55:36.824	-0.3	17.0	2.61	TAS	m_e
PLN	147.05	PKPab	06:55:40.002		11.8	4.17	TAS	m_e
RETH	145.27	PKPdf	06:55:31.692	0.2	23.5	1.81	TAS	m_e
RJOB	149.54	PKPbc	06:55:43.178		17.0	2.61	TAS	m_e
RJOB	149.54	PKPab	06:55:50.104		11.8	4.17	TAS	m_e
ROTZ	147.73	PKPdf	06:55:35.506	0.1	23.5	1.81	TAS	m_e
ROTZ	147.73	PKPbc	06:55:39.034		17.0	2.61	TAS	m_e
ROTZ	147.73	pPKPbc	06:57:42.383				T__	m_e
RUE	144.84	PKPdf	06:55:30.343	0.2	23.5	1.81	TAS	m_e
STU	149.18	PKPdf	06:55:38.163		23.5	1.81	TAS	m_e
STU	149.18	PKPbc	06:55:42.810		17.0	2.61	TAS	m_e
STU	149.18	PKPab	06:55:48.247		11.8	4.17	TAS	m_e

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STU	149.18	pPKPbc	06:57:47.109								T__						m_e
TANN	147.06	PKPdf	06:55:34.232	0.2	23.5		1.81				TAS						m_e
TANN	147.06	PKPbc	06:55:37.192	0.0	17.0		2.61				TAS						m_e
TANN	147.06	pPKPbc	06:57:41.138								T__						m_e
TNS	147.85	PKPdf	06:55:36.255	0.1	23.5		1.81				TAS						m_e
TNS	147.85	PKPbc	06:55:39.494	-0.3	17.0		2.61				TAS						m_e
TNS	147.85	PKPab	06:55:43.116		11.8		4.17				TAS						m_e
TNS	147.85	pPKPbc	06:57:43.576								T__						m_e
UBBA	147.07	PKPdf	06:55:34.461	0.1	23.5		1.81				TAS						m_e
UBBA	147.07	PKPbc	06:55:37.057	0.1	17.0		2.61				TAS						m_e
UBBA	147.07	PKPab	06:55:39.204		11.8		4.17				TAS						m_e
UBR	150.11	PKPdf	06:55:39.010		23.5		1.81				TAS						m_e
UBR	150.11	PKPbc	06:55:45.020		17.0		2.61				TAS						m_e
WET	148.19	PKPdf	06:55:36.121	-0.1	23.5		1.81				TAS						m_e
WET	148.19	PKPbc	06:55:40.045		17.0		2.61				TAS						m_e
WET	148.19	PKPab	06:55:44.640		11.8		4.17				TAS						m_e
WET	148.19	pPKPbc	06:57:44.086								T__						m_e
WLF	148.61	PKPdf	06:55:38.244	-0.2	23.5		1.81				TAS						m_e
WLF	148.61	PKPbc	06:55:42.119		17.0		2.61				TAS						m_e
WLF	148.61	pPKPbc	06:57:46.117								T__						m_e

Event 80819049 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	07:25:52.40			-17.8400	-178.6300				530.0					147.25	147.25	m i ke	EMSC
80819081																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.25		PKP	07:44:35.802		17.5		1.96		TAS				m_e	

Event 80819050 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	07:48:46.14			-18.7200	-177.5700				500.0				29	145.10	150.44	m i ke	BGR
80819056																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	148.04		PKPbc	08:07:34.652	-0.2	16.3		2.54		TAS				m_e	
ASSE	146.04		PKPbc	08:07:28.768	0.1	16.3		2.54		TAS				m_e	



BFO	150.08	PKPbc	08:07:39.269		16.3	2.54	TAS	m_e
BFO	150.08	PKPab	08:07:46.443		14.3	4.17	TAS	m_e
BRG	146.64	PKPbc	08:07:30.717	0.4	16.3	2.54	TAS	m_e
BRG	146.64	PKPab	08:07:32.502	-0.0	14.3	4.17	TAS	m_e
BUG	147.13	PKPbc	08:07:31.853	0.1	16.3	2.54	TAS	m_e
CLL	146.42	PKPbc	08:07:30.128	-0.1	16.3	2.54	TAS	m_e
CLZ	146.36	PKPbc	08:07:29.901	0.2	16.3	2.54	TAS	m_e
FUR	149.76	PKPbc	08:07:38.694		16.3	2.54	TAS	m_e
GEC2	148.59	PKPpdf	08:07:30.491		23.1	1.32	TAS	m_e
GEC2	148.59	PKPbc	08:07:35.599		16.3	2.54	TAS	m_e
GOR1	145.10	PKPpdf	08:07:25.866	0.5	23.1	1.32	TAS	m_e
GRA1	148.30	PKPpdf	08:07:30.273		23.1	1.32	TAS	m_e
GRA1	148.30	PKPbc	08:07:35.095		16.3	2.54	TAS	m_e
GRA1	148.30	PKPab	08:07:39.413		14.3	4.17	TAS	m_e
GTTG	146.71	PKPbc	08:07:30.959	-0.0	16.3	2.54	TAS	m_e
IBBN	146.22	PKPpdf	08:07:29.006	0.0	23.1	1.32	TAS	m_e
KAST	147.24	PKPbc	08:07:32.148	0.2	16.3	2.54	TAS	m_e
KAST	147.24	PKPab	08:07:34.536		14.3	4.17	TAS	m_e
MANZ	147.86	PKPpdf	08:07:30.013		23.1	1.32	TAS	m_e
MANZ	147.86	PKPbc	08:07:34.160	0.1	16.3	2.54	TAS	m_e
MANZ	147.86	PKPab	08:07:37.390		14.3	4.17	TAS	m_e
MOX	147.32	PKPpdf	08:07:29.743		23.1	1.32	TAS	m_e
MOX	147.32	PKPbc	08:07:32.481	-0.0	16.3	2.54	TAS	m_e
MOX	147.32	PKPab	08:07:34.789		14.3	4.17	TAS	m_e
NEUB	146.76	PKPpdf	08:07:29.604	-0.3	23.1	1.32	TAS	m_e
NEUB	146.76	PKPbc	08:07:30.980	0.1	16.3	2.54	TAS	m_e
PLN	147.37	PKPpdf	08:07:29.566		23.1	1.32	TAS	m_e
PLN	147.37	PKPbc	08:07:32.683	-0.1	16.3	2.54	TAS	m_e
PLN	147.37	PKPab	08:07:35.179		14.3	4.17	TAS	m_e
RETH	145.62	PKPpdf	08:07:27.321	0.8	23.1	1.32	TAS	m_e
RJOB	149.84	PKPbc	08:07:38.438		16.3	2.54	TAS	m_e
RJOB	149.84	PKPab	08:07:45.871		14.3	4.17	TAS	m_e
ROTZ	148.05	PKPpdf	08:07:30.428		23.1	1.32	TAS	m_e
ROTZ	148.05	PKPbc	08:07:34.196	-0.4	16.3	2.54	TAS	m_e
ROTZ	148.05	PKPab	08:07:38.129		14.3	4.17	TAS	m_e
RUE	145.16	PKPpdf	08:07:26.010	1.0	23.1	1.32	TAS	m_e
STU	149.53	PKPpdf	08:07:32.140		23.1	1.32	TAS	m_e
STU	149.53	PKPbc	08:07:38.154		16.3	2.54	TAS	m_e
STU	149.53	PKPab	08:07:43.691		14.3	4.17	TAS	m_e
TANN	147.38	PKPpdf	08:07:29.531		23.1	1.32	TAS	m_e
TANN	147.38	PKPbc	08:07:32.700	0.4	16.3	2.54	TAS	m_e
TANN	147.38	PKPab	08:07:35.396		14.3	4.17	TAS	m_e
TNS	148.20	PKPpdf	08:07:31.001		23.1	1.32	TAS	m_e
TNS	148.20	PKPbc	08:07:34.879	-0.2	16.3	2.54	TAS	m_e
UBBA	147.41	PKPpdf	08:07:29.371		23.1	1.32	TAS	m_e
UBBA	147.41	PKPbc	08:07:32.523	0.1	16.3	2.54	TAS	m_e
UBR	150.44	PKPbc	08:07:40.089		16.3	2.54	TAS	m_e
WET	148.50	PKPpdf	08:07:30.549		23.1	1.32	TAS	m_e
WET	148.50	PKPbc	08:07:35.383		16.3	2.54	TAS	m_e

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WET	148.50	PKPab	08:07:40.372	14.3	4.17	TAS	m_e
WLF	148.98	PKPdf	08:07:31.995	23.1	1.32	TAS	m_e
WLF	148.98	PKPbc	08:07:37.362	16.3	2.54	TAS	m_e
WLF	148.98	PKPab	08:07:42.539	14.3	4.17	TAS	m_e

Event 80819051 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	07:56:31.90			-30.3500	-177.9300				40.0					159.48	159.48	m i ke	EMSC
80819083																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	159.48		PKP	08:17:05.353		23.1		3.86		TAS					m_e

Event 80819052 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	08:05:36.50			-18.1100	-177.9500				592.0					147.64	147.64	m i ke	NEIC
80819091																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.64		PKP	08:24:14.708		16.5		1.99		TAS					m_e

Event 80819054 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	08:17:42.90			-18.1400	-178.2300				557.0					147.62	147.62	m i ke	EMSC
80819086																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.62		PKP	08:36:25.058		17.0		2.03		TAS					m_e



80819098

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.61		PKP	11:17:42.604		16.9		2.18		TAS					m_e

Event 80819060 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	11:00:31.00			-18.0500	-177.9900				546.0					147.57	147.57	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	147.57		PKP	11:19:13.806		16.5		1.90		TAS					m_e

Event 80819063 Sumbawa, Indonesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	14:56:26.10			-8.3700	116.6700				12.0				31	104.44	109.59	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Ms 6.7 BGR 80819069

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	108.85		SKS	15:21:26.032		86.7		6.23		TAS					m_e
AHRW	108.85		Pdiff	15:10:53.880		85.8		5.19		TAS					m_e
AHRW	108.85		PP	15:15:23.561		86.2		7.46		TAS					m_e
BFO	108.39		SKS	15:21:21.110		86.7		6.23		TAS					m_e
BFO	108.39		Pdiff	15:10:53.880		85.8		5.19		TAS					m_e
BFO	108.39		PP	15:15:16.249		86.2		7.46		TAS					m_e
BFO	108.39		SP	15:24:38.718		83.3		9.97		TAS					m_e
BRG	104.48		SKS	15:21:01.598	-0.0	86.7		6.23		TAS					m_e
BRG	104.48		Pdiff	15:10:29.177	1.7	85.8		5.19		TAS					m_e
BRG	104.48		SP	15:23:57.519	0.3	83.3		9.97		TAS					m_e
BSEG	106.34		SKS	15:21:19.352		86.7		6.23		TAS					m_e
BSEG	106.34		Pdiff	15:10:42.648		85.8		5.19		TAS					m_e
BSEG	106.34		PP	15:14:56.033		86.2		7.46		TAS					m_e
BUG	108.57		SKS	15:21:26.032		86.7		6.23		TAS					m_e
BUG	108.57		Pdiff	15:10:55.056		85.8		5.19		TAS					m_e

BUG	108.57	PP	15:15:18.830		86.2	7.46	TAS		m_e
BUG	108.57	SP	15:24:36.784		83.3	9.97	TAS		m_e
CLL	105.03	SKS	15:21:02.125	-1.7	86.7	6.23	TAS		m_e
CLL	105.03	Pdiff	15:10:30.353	-1.2	85.8	5.19	TAS		m_e
CLL	105.03	PP	15:14:53.452	-3.0	86.2	7.46	TAS		m_e
CLL	105.03	SP	15:24:02.968	0.3	83.3	9.97	TAS		m_e
CLZ	106.60	SKS	15:21:21.637		86.7	6.23	TAS		m_e
CLZ	106.60	Pdiff	15:10:40.940		85.8	5.19	TAS		m_e
CLZ	106.60	PP	15:14:55.603		86.2	7.46	TAS		m_e
FLT1	106.01	SKS	15:21:09.684		86.7	6.23	TAS		m_e
FLT1	106.01	Pdiff	15:10:39.764		85.8	5.19	TAS		m_e
FLT1	106.01	PP	15:14:53.452		86.2	7.46	TAS		m_e
FLT1	106.01	SP	15:24:13.691		83.3	9.97	TAS		m_e
FUR	106.46	SKS	15:21:20.231		86.7	6.23	TAS		m_e
FUR	106.46	Pdiff	15:10:43.293		85.8	5.19	TAS		m_e
FUR	106.46	PP	15:14:54.742		86.2	7.46	TAS		m_e
FUR	106.46	SP	15:24:15.098		83.3	9.97	TAS		m_e
GEC2	104.79	SKS	15:21:02.301	-2.0	86.7	6.23	TAS		m_e
GEC2	104.79	Pdiff	15:10:35.058	0.4	85.8	5.19	TAS		m_e
GEC2	104.79	PP	15:14:50.871	-1.2	86.2	7.46	TAS		m_e
GEC2	104.79	SP	15:24:03.144	1.2	83.3	9.97	TAS		m_e
GOR1	105.88	Pdiff	15:10:40.166	0.1	85.8	5.19	TAS		m_e
GOR1	105.88	PP	15:14:53.452	-2.5	86.2	7.46	TAS		m_e
GRA1	106.33	SKS	15:21:16.891		86.7	6.23	TAS		m_e
GRA1	106.33	Pdiff	15:10:43.293		85.8	5.19	TAS		m_e
GRA1	106.33	PP	15:14:53.022		86.2	7.46	TAS		m_e
GRA1	106.33	SP	15:24:10.703		83.3	9.97	TAS		m_e
GRA1	106.33	L	16:05:03.986				T__	26341.0 21.80	a_e Ms 6.8
GTTG	106.89	SKS	15:21:17.418		86.7	6.23	TAS		m_e
GTTG	106.89	Pdiff	15:10:44.469		85.8	5.19	TAS		m_e
GTTG	106.89	PP	15:14:59.044		86.2	7.46	TAS		m_e
HLG	107.72	SKS	15:21:20.231		86.7	6.23	TAS		m_e
HLG	107.72	Pdiff	15:10:49.895		85.8	5.19	TAS		m_e
HLG	107.72	PP	15:15:08.937		86.2	7.46	TAS		m_e
IBBN	108.12	SKS	15:21:22.165		86.7	6.23	TAS		m_e
IBBN	108.12	Pdiff	15:10:50.351		85.8	5.19	TAS		m_e
IBBN	108.12	PP	15:15:12.808		86.2	7.46	TAS		m_e
IBBN	108.12	SP	15:24:32.038		83.3	9.97	TAS		m_e
KAST	107.90	SKS	15:21:22.165		86.7	6.23	TAS		m_e
KAST	107.90	Pdiff	15:10:50.351		85.8	5.19	TAS		m_e
KAST	107.90	PP	15:15:07.646		86.2	7.46	TAS		m_e
KAST	107.90	SP	15:24:31.687		83.3	9.97	TAS		m_e
MANZ	105.73	SKS	15:21:07.574		86.7	6.23	TAS		m_e
MANZ	105.73	Pdiff	15:10:42.116	-1.1	85.8	5.19	TAS		m_e
MANZ	105.73	PP	15:14:52.161		86.2	7.46	TAS		m_e
MOX	105.97	SKS	15:21:08.629		86.7	6.23	TAS		m_e
MOX	105.97	Pdiff	15:10:38.587		85.8	5.19	TAS		m_e
MOX	105.97	PP	15:14:53.452		86.2	7.46	TAS		m_e
MOX	105.97	SP	15:24:11.055		83.3	9.97	TAS		m_e

MOX	105.97	L	16:06:44.913			T__	20924.6	21.50	a_e	Ms	6.7
NEUB	105.81	SKS	15:21:07.750	86.7	6.23	TAS			m_e		
NEUB	105.81	Pdiff	15:10:37.411	85.8	5.19	TAS			m_e		
NEUB	105.81	PP	15:14:52.161	86.2	7.46	TAS			m_e		
NRDL	106.67	SKS	15:21:20.407	86.7	6.23	TAS			m_e		
NRDL	106.67	Pdiff	15:10:46.649	85.8	5.19	TAS			m_e		
NRDL	106.67	PP	15:14:59.044	86.2	7.46	TAS			m_e		
PLN	105.64	SKS	15:21:05.113	-0.5	86.7	TAS			m_e		
PLN	105.64	Pdiff	15:10:38.587	0.3	85.8	TAS			m_e		
PLN	105.64	PP	15:14:50.871	0.3	86.2	TAS			m_e		
PLN	105.64	SP	15:24:08.945		83.3	TAS			m_e		
RETH	107.09	Pdiff	15:10:47.644	1.3	85.8	TAS			m_e		
RETH	107.09	PP	15:15:03.775	-2.3	86.2	TAS			m_e		
RGN	104.52	SKS	15:21:01.422	-2.6	86.7	TAS			m_e		
RGN	104.52	Pdiff	15:10:34.364	1.5	85.8	TAS			m_e		
RGN	104.52	PP	15:14:53.022	1.7	86.2	TAS			m_e		
RJOB	105.48	SKS	15:21:05.992	0.8	86.7	TAS			m_e		
RJOB	105.48	Pdiff	15:10:32.706	-0.5	85.8	TAS			m_e		
RJOB	105.48	PP	15:14:52.592	-1.2	86.2	TAS			m_e		
ROTZ	105.68	SKS	15:21:06.168	-3.6	86.7	TAS			m_e		
ROTZ	105.68	Pdiff	15:10:38.587	1.9	85.8	TAS			m_e		
ROTZ	105.68	PP	15:14:51.731	3.5	86.2	TAS			m_e		
ROTZ	105.68	SP	15:24:11.406		83.3	TAS			m_e		
RUE	104.44	SKS	15:21:00.543	-0.9	86.7	TAS			m_e		
RUE	104.44	Pdiff	15:10:36.235	3.9	85.8	TAS			m_e		
RUE	104.44	PP	15:14:51.301	6.5	86.2	TAS			m_e		
RUE	104.44	SP	15:23:58.046	1.2	83.3	TAS			m_e		
STU	107.76	SKS	15:21:20.407		86.7	TAS			m_e		
STU	107.76	Pdiff	15:10:51.527		85.8	TAS			m_e		
STU	107.76	PP	15:15:08.076		86.2	TAS			m_e		
TANN	105.46	SKS	15:21:04.410	5.0	86.7	TAS			m_e		
TANN	105.46	Pdiff	15:10:38.587	2.7	85.8	TAS			m_e		
TANN	105.46	PP	15:14:50.011	-3.7	86.2	TAS			m_e		
TANN	105.46	SP	15:24:05.254		83.3	TAS			m_e		
TNS	108.03	SKS	15:21:23.219		86.7	TAS			m_e		
TNS	108.03	Pdiff	15:10:49.174		85.8	TAS			m_e		
TNS	108.03	PP	15:15:11.087		86.2	TAS			m_e		
TNS	108.03	SP	15:24:36.257		83.3	TAS			m_e		
UBBA	106.97	SKS	15:21:17.946		86.7	TAS			m_e		
UBBA	106.97	Pdiff	15:10:43.293		85.8	TAS			m_e		
UBBA	106.97	PP	15:14:58.613		86.2	TAS			m_e		
UBR	107.29	SKS	15:21:18.473		86.7	TAS			m_e		
UBR	107.29	Pdiff	15:10:45.645		85.8	TAS			m_e		
UBR	107.29	PP	15:15:01.194		86.2	TAS			m_e		
WET	105.31	SKS	15:21:03.707	5.3	86.7	TAS			m_e		
WET	105.31	Pdiff	15:10:36.235	0.0	85.8	TAS			m_e		
WET	105.31	PP	15:14:53.452	-3.6	86.2	TAS			m_e		
WET	105.31	SP	15:24:03.847	2.4	83.3	TAS			m_e		
WLF	109.59	Pdiff	15:10:57.409		85.8	TAS			m_e		

WLF 109.59      PP      15:15:28.293      86.2      7.46      TAS      m\_e

Event 80819066 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	18:43:55.70			-17.9800	-178.0000				568.0					147.50	147.50	m i ke	EMSC
OrigID 80819098																	

Magnitude Err Nsta Author      OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.50		PKP	19:02:36.456		16.5		1.96		TAS					m_e

Event 80819068 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	18:49:26.99			-18.6600	-178.9400				541.8	5.0		23		146.08	150.13	m i ke	BGR
OrigID 80819074																	

Magnitude Err Nsta Author      OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.83		PKPdf	19:08:07.895		19.0		1.61		TAS					m_e
AHRW	147.83		pPKPbc	19:10:14.861						T__					m_e
BFO	149.82		PKPbc	19:08:15.499		16.3		2.67		TAS					m_e
BFO	149.82		pPKPbc	19:10:21.219						T__					m_e
BRG	146.27		PKPdf	19:08:05.017	0.1	19.0		1.61		TAS					m_e
BRG	146.27		PKPbc	19:08:06.338	0.2	16.3		2.67		TAS					m_e
CLL	146.08		PKPdf	19:08:04.713	-0.0	19.0		1.61		TAS					m_e
CLL	146.08		PKPbc	19:08:05.453	0.2	16.3		2.67		TAS					m_e
CLZ	146.09		PKPbc	19:08:05.556	0.2	16.3		2.67		TAS					m_e
FUR	149.42		PKPdf	19:08:09.847		19.0		1.61		TAS					m_e
FUR	149.42		PKPbc	19:08:14.821		16.3		2.67		TAS					m_e
FUR	149.42		pPKPbc	19:10:19.200						T__					m_e
GEC2	148.20		PKPdf	19:08:08.055		19.0		1.61		TAS					m_e
GEC2	148.20		PKPbc	19:08:11.747		16.3		2.67		TAS					m_e
GEC2	148.20		pPKPbc	19:10:17.971						T__					m_e
GRA1	147.98		PKPdf	19:08:07.712		19.0		1.61		TAS					m_e
GRA1	147.98		PKPbc	19:08:11.225		16.3		2.67		TAS					m_e
GRA1	147.98		PKPab	19:08:14.327		16.5		3.94		TAS					m_e
GRA1	147.98		pPKPbc	19:10:15.798						T__					m_e
GTTG	146.44		PKPdf	19:08:05.083	-0.1	19.0		1.61		TAS					m_e
GTTG	146.44		PKPbc	19:08:06.571	0.4	16.3		2.67		TAS					m_e

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KAST	147.01	PKPdf	19:08:06.365	-0.2	19.0	1.61	TAS	m_e
KAST	147.01	PKPbc	19:08:08.057	0.1	16.3	2.67	TAS	m_e
MANZ	147.52	PKPdf	19:08:07.272		19.0	1.61	TAS	m_e
MANZ	147.52	PKPbc	19:08:09.853		16.3	2.67	TAS	m_e
MANZ	147.52	PKPab	19:08:11.828		16.5	3.94	TAS	m_e
MANZ	147.52	pPKPbc	19:10:15.598				T__	m_e
MOX	147.00	PKPdf	19:08:06.154		19.0	1.61	TAS	m_e
MOX	147.00	PKPbc	19:08:08.197	-0.5	16.3	2.67	TAS	m_e
MOX	147.00	pPKPbc	19:10:13.905				T__	m_e
NEUB	146.44	PKPbc	19:08:06.613	0.1	16.3	2.67	TAS	m_e
PLN	147.03	PKPdf	19:08:06.244		19.0	1.61	TAS	m_e
PLN	147.03	PKPbc	19:08:08.426	-0.2	16.3	2.67	TAS	m_e
PLN	147.03	pPKPbc	19:10:13.805				T__	m_e
RJOB	149.46	PKPbc	19:08:14.519		16.3	2.67	TAS	m_e
RJOB	149.46	PKPab	19:08:19.915		16.5	3.94	TAS	m_e
RJOB	149.46	pPKPbc	19:10:20.259				T__	m_e
ROTZ	147.70	PKPbc	19:08:10.374		16.3	2.67	TAS	m_e
ROTZ	147.70	pPKPbc	19:10:16.110				T__	m_e
STU	149.25	PKPdf	19:08:09.894		19.0	1.61	TAS	m_e
STU	149.25	PKPab	19:08:18.704		16.5	3.94	TAS	m_e
STU	149.25	pPKPbc	19:10:17.935				T__	m_e
TANN	147.04	PKPdf	19:08:06.310		19.0	1.61	TAS	m_e
TANN	147.04	PKPbc	19:08:08.508	-0.1	16.3	2.67	TAS	m_e
TANN	147.04	PKPab	19:08:10.070		16.5	3.94	TAS	m_e
TANN	147.04	pPKPbc	19:10:13.599				T__	m_e
TNS	147.96	PKPdf	19:08:07.683		19.0	1.61	TAS	m_e
TNS	147.96	PKPbc	19:08:10.919		16.3	2.67	TAS	m_e
TNS	147.96	PKPab	19:08:13.803		16.5	3.94	TAS	m_e
TNS	147.96	pPKPbc	19:10:15.769				T__	m_e
UBBA	147.13	PKPdf	19:08:06.171		19.0	1.61	TAS	m_e
UBBA	147.13	PKPbc	19:08:08.392		16.3	2.67	TAS	m_e
UBBA	147.13	PKPab	19:08:10.480		16.5	3.94	TAS	m_e
UBR	150.13	PKPbc	19:08:16.463		16.3	2.67	TAS	m_e
WET	148.13	PKPdf	19:08:08.085		19.0	1.61	TAS	m_e
WET	148.13	PKPbc	19:08:11.472		16.3	2.67	TAS	m_e
WET	148.13	PKPab	19:08:15.083		16.5	3.94	TAS	m_e
WLF	148.80	PKPdf	19:08:09.445		19.0	1.61	TAS	m_e

Event 80819069 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	19:13:20.70			-16.9900	-177.9800				433.0					146.54	146.54	m i ke	EMSC
	80819101																

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	146.54		PKP	19:32:12.568		16.1		2.01		TAS					m_e

Event 80819072 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/19	23:23:42.90			-18.0900	-177.9200				578.0					147.63	147.63	m i ke	EMSC
OrigID 80819104																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.63		PKP	23:42:23.223		16.4		1.76		TAS					m_e

Event 80820001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	00:04:07.70			-17.4300	-178.5000				467.0					146.87	146.87	m i ke	EMSC
OrigID 80820033																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.87		PKP	00:22:55.948		17.2		2.01		TAS					m_e

Event 80820003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	00:21:46.00			-18.2000	-178.1300				574.0					147.69	147.69	m i ke	NEIC
OrigID 80820042																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.69		PKP	00:40:27.231		16.8		1.92		TAS					m_e

Event 80820005 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	00:44:27.61			-18.4100	-177.6100				580.4	1.9		24		146.05	150.13	m i k e	BGR
80820011																	

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
AHRW	147.72		PKPdf	01:03:05.197		28.5		1.54		TAS					m_e
AHRW	147.72		pPKPbc	01:05:20.348						T__					m_e
BFO	149.77		PKPbc	01:03:11.979		16.7		2.51		TAS					m_e
BFO	149.77		PKPab	01:03:18.817		11.5		4.32		TAS					m_e
BRG	146.33		PKPdf	01:03:01.477	-0.1	28.5		1.54		TAS					m_e
BRG	146.33		PKPbc	01:03:03.460	0.2	16.7		2.51		TAS					m_e
BRG	146.33		PKPab	01:03:05.178		11.5		4.32		TAS					m_e
BUG	146.82		PKPdf	01:03:03.092	-0.0	28.5		1.54		TAS					m_e
CLL	146.11		PKPdf	01:03:00.832	0.5	28.5		1.54		TAS					m_e
CLL	146.11		PKPbc	01:03:02.808	0.1	16.7		2.51		TAS					m_e
CLZ	146.05		PKPdf	01:03:01.092	0.0	28.5		1.54		TAS					m_e
CLZ	146.05		PKPbc	01:03:02.754	0.2	16.7		2.51		TAS					m_e
FUR	149.45		PKPbc	01:03:11.434		16.7		2.51		TAS					m_e
FUR	149.45		PKPab	01:03:18.242		11.5		4.32		TAS					m_e
GEC2	148.29		PKPdf	01:03:03.692		28.5		1.54		TAS					m_e
GEC2	148.29		PKPbc	01:03:08.459		16.7		2.51		TAS					m_e
GEC2	148.29		PKPab	01:03:14.108		11.5		4.32		TAS					m_e
GRA1	147.99		PKPdf	01:03:03.886		28.5		1.54		TAS					m_e
GRA1	147.99		PKPbc	01:03:07.914		16.7		2.51		TAS					m_e
GRA1	147.99		PKPab	01:03:11.979		11.5		4.32		TAS					m_e
GRA1	147.99		pPKPbc	01:05:21.222						T__					m_e
GTTG	146.40		PKPbc	01:03:03.643	0.2	16.7		2.51		TAS					m_e
KAST	146.93		PKPdf	01:03:03.155		28.5		1.54		TAS					m_e
KAST	146.93		PKPbc	01:03:05.089	0.2	16.7		2.51		TAS					m_e
MANZ	147.55		PKPdf	01:03:03.348		28.5		1.54		TAS					m_e
MANZ	147.55		PKPbc	01:03:06.717	-0.1	16.7		2.51		TAS					m_e
MOX	147.01		PKPdf	01:03:02.613		28.5		1.54		TAS					m_e
MOX	147.01		PKPbc	01:03:05.184	0.1	16.7		2.51		TAS					m_e
MOX	147.01		PKPab	01:03:07.403		11.5		4.32		TAS					m_e
MOX	147.01		pPKPbc	01:05:18.507						T__					m_e
NEUB	146.45		PKPdf	01:03:01.695	-0.2	28.5		1.54		TAS					m_e
NEUB	146.45		PKPbc	01:03:03.730	-0.1	16.7		2.51		TAS					m_e
NEUB	146.45		PKPab	01:03:05.070		11.5		4.32		TAS					m_e
PLN	147.06		PKPdf	01:03:02.743		28.5		1.54		TAS					m_e
PLN	147.06		PKPbc	01:03:05.544	0.1	16.7		2.51		TAS					m_e
PLN	147.06		PKPab	01:03:07.642		11.5		4.32		TAS					m_e
PLN	147.06		pPKPbc	01:05:18.881						T__					m_e
RJOB	149.54		PKPbc	01:03:11.362		16.7		2.51		TAS					m_e
RJOB	149.54		PKPab	01:03:18.818		11.5		4.32		TAS					m_e
ROTZ	147.74		PKPdf	01:03:03.465		28.5		1.54		TAS					m_e
ROTZ	147.74		PKPbc	01:03:07.152		16.7		2.51		TAS					m_e

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ROTZ	147.74	PKPab	01:03:10.904	11.5	4.32	TAS	m_e
STU	149.22	PKPbc	01:03:10.963	16.7	2.51	TAS	m_e
STU	149.22	PKPab	01:03:16.972	11.5	4.32	TAS	m_e
TANN	147.07	PKPdf	01:03:02.703	28.5	1.54	TAS	m_e
TANN	147.07	PKPbc	01:03:05.493	-0.2 16.7	2.51	TAS	m_e
TANN	147.07	PKPab	01:03:07.929	11.5	4.32	TAS	m_e
TANN	147.07	pPKPbc	01:05:18.425			T__	m_e
TNS	147.89	PKPbc	01:03:07.769	16.7	2.51	TAS	m_e
TNS	147.89	PKPab	01:03:11.076	11.5	4.32	TAS	m_e
UBBA	147.10	PKPbc	01:03:05.241	-0.3 16.7	2.51	TAS	m_e
UBBA	147.10	pPKPbc	01:05:18.825			T__	m_e
UBR	150.13	PKPbc	01:03:12.886	16.7	2.51	TAS	m_e
WET	148.19	PKPdf	01:03:03.623	28.5	1.54	TAS	m_e
WET	148.19	PKPbc	01:03:08.096	16.7	2.51	TAS	m_e
WET	148.19	PKPab	01:03:13.313	11.5	4.32	TAS	m_e
WLF	148.67	PKPdf	01:03:06.282	28.5	1.54	TAS	m_e
WLF	148.67	PKPbc	01:03:10.019	16.7	2.51	TAS	m_e

Event 80820007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	02:28:07.50			-18.3000	-178.0600				582.0					147.81	147.81	m i ke	EMSC
80820039																	

Magnitude Err Nsta Author      OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.81		PKP	02:46:48.098		16.7		2.07		TAS					m_e

Event 80820008 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	06:09:40.90			-18.1300	-178.2300				531.0					147.61	147.61	m i ke	EMSC
80820040																	

Magnitude Err Nsta Author      OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.61		PKP	06:28:29.650		16.9		3.78		TAS					m_e

Event 80820009 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	06:43:58.50			-17.8800	-178.4000				519.0					147.33	147.33	m i ke	EMSC
OrigID 80820041																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.33		PKP	07:02:44.550		17.2		1.88		TAS				m_e	

Event 80820010 Carlsberg Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	07:38:26.40			9.5300	57.9200				10.0				17	55.10	56.86	m i ke	EMSC
OrigID 80820042																	

Magnitude Err Nsta Author OrigID

mb 4.7 BGR 80820016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABG1	55.54		P	07:48:00.690	0.0	119.6		7.37		TAS		15.5	1.03	m_e mb	5.0
BBWF	56.55		P	07:48:08.270	0.1	119.6		7.37		TAS		1.6	0.54	m_e mb	4.3
FBE	55.10		P	07:47:57.211	-0.2	119.6		7.37		TAS		29.7	1.53	m_e mb	5.1
HKWD	55.64		P	07:48:01.364	-0.2	119.6		7.37		TAS		5.6	1.09	m_e mb	4.5
HWTS	55.95		P	07:48:03.806		119.6		7.37		TAS		22.1	1.53	m_e mb	5.0
MLFH	55.72		P	07:48:02.200	0.1	119.6		7.37		TAS		5.4	1.03	m_e mb	4.5
MOX	55.90		P	07:48:03.185		119.6		7.37		TAS		3.6	0.93	m_e mb	4.4
MULD	55.35		P	07:47:59.413		119.6		7.37		TAS		12.6	1.46	m_e mb	4.7
NEUB	56.09		P	07:48:05.026	-0.2	119.6		7.37		TAS		9.5	0.79	m_e mb	4.9
PLN	55.52		P	07:48:00.624		119.6		7.37		TAS		5.8	1.11	m_e mb	4.5
POSS	56.65		P	07:48:08.549		119.6		7.37		TAS		4.1	0.64	m_e mb	4.6
ROTZ	55.12		P	07:47:57.553		119.6		7.37		TAS				m_e	
SCHF	55.48		P	07:48:00.192	-0.2	119.6		7.37		TAS		2.4	0.83	m_e mb	4.3
TANN	55.32		P	07:47:59.230		119.6		7.37		TAS		21.3	1.94	m_e mb	4.8
TAUT	56.02		P	07:48:03.979	0.1	119.6		7.37		TAS		42.2	1.21	m_e mb	5.3
VITZ	56.86		P	07:48:10.354	0.5	119.6		7.37		TAS		5.9	0.92	m_e mb	4.6
WERD	55.42		P	07:47:59.717		119.6		7.37		TAS		26.2	1.75	m_e mb	5.0
WERN	55.30		P	07:47:59.291		119.6		7.37		TAS		33.1	1.62	m_e mb	5.1
WIMM	56.41		P	07:48:07.267		119.6		7.37		TAS		5.0	1.13	m_e mb	4.4

Event 80820011 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2018/08/20 11:39:58.57 -18.6300 -177.4800 500.0 24 146.29 150.37 m i ke BGR  
 80820017

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	147.96		PKPdf	11:58:43.281		18.9		1.53		TAS					m_e	
AHRW	147.96		PKPbc	11:58:46.928	-0.2	16.2		2.56		TAS					m_e	
AHRW	147.96		PKPab	11:58:50.190		15.1		4.37		TAS					m_e	
BFO	150.00		PKPbc	11:58:51.588		16.2		2.56		TAS					m_e	
BRG	146.57		PKPdf	11:58:40.794	-0.2	18.9		1.53		TAS					m_e	
BRG	146.57		PKPbc	11:58:42.978	0.2	16.2		2.56		TAS					m_e	
BUG	147.05		PKPbc	11:58:43.967	0.2	16.2		2.56		TAS					m_e	
CLL	146.35		PKPdf	11:58:40.473	-0.3	18.9		1.53		TAS					m_e	
CLL	146.35		PKPbc	11:58:42.148	0.2	16.2		2.56		TAS					m_e	
CLZ	146.29		PKPdf	11:58:40.541	0.0	18.9		1.53		TAS					m_e	
CLZ	146.29		PKPbc	11:58:42.067	-0.1	16.2		2.56		TAS					m_e	
FUR	149.69		PKPdf	11:58:45.782		18.9		1.53		TAS					m_e	
FUR	149.69		PKPbc	11:58:51.097		16.2		2.56		TAS					m_e	
FUR	149.69		PKPab	11:58:57.355		15.1		4.37		TAS					m_e	
GEC2	148.53		PKPbc	11:58:47.976		16.2		2.56		TAS					m_e	
GRA1	148.23		PKPdf	11:58:42.961		18.9		1.53		TAS					m_e	
GRA1	148.23		PKPbc	11:58:47.380		16.2		2.56		TAS					m_e	
GRA1	148.23		PKPab	11:58:51.483		15.1		4.37		TAS					m_e	
GTTG	146.63		PKPdf	11:58:40.959	0.0	18.9		1.53		TAS					m_e	
GTTG	146.63		PKPbc	11:58:42.969	0.2	16.2		2.56		TAS					m_e	
KAST	147.16		PKPdf	11:58:42.010		18.9		1.53		TAS					m_e	
KAST	147.16		PKPbc	11:58:44.480	-0.1	16.2		2.56		TAS					m_e	
MANZ	147.79		PKPdf	11:58:42.637		18.9		1.53		TAS					m_e	
MANZ	147.79		PKPbc	11:58:46.257	-0.5	16.2		2.56		TAS					m_e	
MOX	147.25		PKPdf	11:58:41.843		18.9		1.53		TAS					m_e	
MOX	147.25		PKPbc	11:58:44.694	-0.0	16.2		2.56		TAS					m_e	
MOX	147.25		PKPab	11:58:46.647		15.1		4.37		TAS					m_e	
NEUB	146.69		PKPbc	11:58:43.328	0.2	16.2		2.56		TAS					m_e	
NEUB	146.69		PKPab	11:58:44.141		15.1		4.37		TAS					m_e	
PLN	147.30		PKPdf	11:58:41.914		18.9		1.53		TAS					m_e	
PLN	147.30		PKPbc	11:58:44.854	0.3	16.2		2.56		TAS					m_e	
RJOB	149.78		PKPdf	11:58:45.607		18.9		1.53		TAS					m_e	
RJOB	149.78		PKPbc	11:58:50.676		16.2		2.56		TAS					m_e	
RJOB	149.78		PKPab	11:58:58.057		15.1		4.37		TAS					m_e	
ROTZ	147.98		PKPbc	11:58:46.748	-0.2	16.2		2.56		TAS					m_e	
STU	149.45		PKPdf	11:58:45.303		18.9		1.53		TAS					m_e	
STU	149.45		PKPbc	11:58:50.466		16.2		2.56		TAS					m_e	
STU	149.45		PKPab	11:58:56.350		15.1		4.37		TAS					m_e	
TANN	147.31		PKPdf	11:58:41.706		18.9		1.53		TAS					m_e	
TANN	147.31		PKPbc	11:58:44.960	0.1	16.2		2.56		TAS					m_e	
TANN	147.31		PKPab	11:58:47.037		15.1		4.37		TAS					m_e	
TNS	148.13		PKPbc	11:58:47.274		16.2		2.56		TAS					m_e	

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TNS	148.13	PKPab	11:58:50.780	15.1	4.37	TAS	m_e
UBBA	147.34	PKPdf	11:58:41.793	18.9	1.53	TAS	m_e
UBBA	147.34	PKPbc	11:58:44.770	0.2 16.2	2.56	TAS	m_e
UBBA	147.34	PKPab	11:58:47.440	15.1	4.37	TAS	m_e
UBR	150.37	PKPbc	11:58:52.430	16.2	2.56	TAS	m_e
WET	148.43	PKPdf	11:58:43.323	18.9	1.53	TAS	m_e
WET	148.43	PKPbc	11:58:47.588	16.2	2.56	TAS	m_e
WET	148.43	PKPab	11:58:52.371	15.1	4.37	TAS	m_e
WLF	148.90	PKPbc	11:58:49.592	16.2	2.56	TAS	m_e

Event 80820012 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	18:01:40.40			-0.5160	-23.7840				33.0					58.32	58.32	m i ke	BGR
80820018																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	80820018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	58.32		P	18:11:33.503		216.3		6.88		TAS		2.7	0.75	m_e mb	4.4

Event 80820013 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	20:07:58.40			-16.8400	-179.4200				548.0					146.12	146.12	m i ke	EMSC
80820045																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.12		PKP	20:26:37.953		18.5		2.04		TAS				m_e	
GRA1	146.12		pPKP	20:28:40.024						T__				m_e	

Event 80820014 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/20	22:56:16.00			-18.1000	-177.9900				558.0					147.62	147.62	m i ke	EMSC
80820046																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.62		PKP	23:14:58.429		16.5		1.94		TAS					m_e

Event 80821001 Northern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/21	00:33:44.04	0.84	1.18	44.5790	10.6140	18.9	13.3	51	10.0				16 284	2.76	5.50	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
ML	4.2		BGR	80821007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	4.07		Sn	00:35:27.979	-0.8					T__				m_e	
BFO	4.07		Pn	00:34:44.971	0.1					T__				m_e	ML 4.2
DAVA	2.76		Pn	00:34:28.900	1.8					T__				m_e	ML 4.2
FUR	3.61		Sn	00:35:18.832	0.7					T__				m_e	
FUR	3.61		Pn	00:34:39.033	0.4					T__				m_e	ML 4.5
GEC2	4.77		Pn	00:34:53.825	-0.4					T__				m_e	ML 4.1
GRA1	5.13		Pn	00:34:57.425	-1.7					T__				m_e	ML 4.5
MANZ	5.50		Sn	00:36:01.328	-1.0					T__				m_e	
MANZ	5.50		Pn	00:35:02.502	-1.6					T__				m_e	ML 4.0
MOA	4.14		Pn	00:34:46.234	0.5					T__				m_e	ML 3.9
NORI	4.14		Sn	00:35:29.255	-1.2					T__				m_e	
NORI	4.14		Pn	00:34:44.718	-1.1					T__				m_e	ML 4.3
OBER	2.84		Pn	00:34:29.697	1.5					T__				m_e	
OBKA	3.37		Pn	00:34:35.287	-0.1					T__				m_e	ML 4.2
PART	2.94		Sn	00:35:04.740	2.4					T__				m_e	
RJOB	3.50		Pn	00:34:38.164	1.0					T__				m_e	ML 4.2
ROTZ	5.30		Pn	00:34:59.790	-1.6					T__				m_e	ML 4.0
UBR	3.12		Pn	00:34:33.127	1.1					T__				m_e	ML 4.7
WET	4.82		Pn	00:34:54.316	-0.7					T__				m_e	ML 4.1
WTTA	2.78		Pn	00:34:28.171	0.8					T__				m_e	ML 4.3

Event 80821002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/21	06:24:16.50			-15.1100	-173.2100				10.0					145.32	145.32	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	145.32		PKP	06:43:54.940		7.5		2.91		TAS					m_e

Event 80821003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/21	06:28:56.60			-18.0300	-178.0300				560.0					147.55	147.55	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	147.55		PKP	06:47:38.606		16.6		2.12		TAS					m_e
GRA1	147.55		pPKP	06:49:48.748						T__					m_e

Event 80821004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/21	07:39:38.60			-18.1400	-178.2000				568.0					147.62	147.62	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	147.62		PKP	07:58:20.189		16.9		2.09		TAS					m_e

Event 80821006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/21	10:56:34.20			-18.1100	-177.9700				594.0					147.64	147.64	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	147.64		PKP	11:15:13.184		16.5		2.27		TAS					m_e



Event 80821008 Near coast of Venezuela

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/21	21:31:31.51			10.6990	-62.9430				33.0			31		68.40	73.50	m i ke	BGR
80821014																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.8		BGR	80821014
MBB	7.4		BGR	80821014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	69.13		S	21:51:27.861	0.1	263.3		11.68		TAS				m_e	
AHRW	69.13		P	21:42:35.128	-0.2	264.9		6.03		TAS		1426.5	1.22	a_e	MBB 7.6
BFO	69.64		S	21:51:33.843	0.5	263.3		11.68		TAS				m_e	
BFO	69.64		P	21:42:37.878	0.5	264.9		6.03		TAS		368.3	1.09	a_e	MBB 7.2
BRG	73.50		S	21:52:18.206		263.3		11.68		TAS				m_e	
BRG	73.50		P	21:43:01.228		264.9		6.03		TAS		698.9	1.06	a_e	MBB 7.3
BSEG	71.57		S	21:51:57.935		263.3		11.68		TAS				m_e	
BSEG	71.57		P	21:42:49.578		264.9		6.03		TAS		1110.0	1.13	a_e	MBB 7.5
BUG	69.38		S	21:51:30.353	-0.9	263.3		11.68		TAS				m_e	
BUG	69.38		P	21:42:36.228	-0.1	264.9		6.03		TAS		1625.6	1.19	a_e	MBB 7.6
CLL	72.94		S	21:52:12.390		263.3		11.68		TAS				m_e	
CLL	72.94		P	21:42:57.728		264.9		6.03		TAS		604.1	1.01	a_e	MBB 7.3
CLZ	71.35		S	21:51:55.775		263.3		11.68		TAS				m_e	
CLZ	71.35		P	21:42:48.528		264.9		6.03		TAS		1466.8	1.31	a_e	MBB 7.3
FLT1	71.94		S	21:52:01.756		263.3		11.68		TAS				m_e	
FLT1	71.94		P	21:42:51.428		264.9		6.03		TAS		607.7	1.00	a_e	MBB 7.4
FUR	71.58		S	21:51:55.775		263.3		11.68		TAS				m_e	
FUR	71.58		P	21:42:49.828		264.9		6.03		TAS		1840.5	1.37	a_e	MBB 7.6
GEC2	73.24		S	21:52:14.716		263.3		11.68		TAS				m_e	
GEC2	73.24		P	21:42:59.578		264.9		6.03		TAS		1439.5	1.15	a_e	MBB 7.4
GOR1	72.05		P	21:42:52.278		264.9		6.03		TAS		1262.0	1.29	a_e	MBB 7.5
GRA1	71.67		S	21:51:56.439		263.3		11.68		TAS				m_e	
GRA1	71.67		P	21:42:50.228		264.9		6.03		TAS		966.7	1.23	a_e	MBB 7.4
GRA1	71.67		X	22:10:21.483		100.0		2.81		TAS				m_e	
GRA1	71.67		X	22:33:30.432		100.0		2.81		TAS				m_e	
GTTG	71.07		S	21:51:51.621		263.3		11.68		TAS				m_e	
GTTG	71.07		P	21:42:46.728		264.9		6.03		TAS		676.4	0.97	a_e	MBB 7.4
HLG	70.19		S	21:51:41.320	0.9	263.3		11.68		TAS				m_e	
HLG	70.19		P	21:42:41.228	-0.1	264.9		6.03		TAS		1730.8	1.00	a_e	MBB 7.6
IBBN	69.82		S	21:51:36.169	0.6	263.3		11.68		TAS				m_e	
IBBN	69.82		P	21:42:38.928	0.1	264.9		6.03		TAS		2185.7	1.19	a_e	MBB 7.6
KAST	70.06		S	21:51:38.661	0.8	263.3		11.68		TAS				m_e	
KAST	70.06		P	21:42:40.528	-0.4	264.9		6.03		TAS		475.1	1.15	a_e	MBB 7.3
MANZ	72.27		S	21:52:04.747		263.3		11.68		TAS				m_e	
MANZ	72.27		P	21:42:54.128		264.9		6.03		TAS		193.6	1.06	a_e	MBB 6.8
MOX	72.01		S	21:52:02.919		263.3		11.68		TAS				m_e	
MOX	72.01		P	21:42:52.278		264.9		6.03		TAS		316.4	1.24	a_e	MBB 7.2



./bull1808.txt

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/22	02:56:17.40			51.0200	-29.9700				10.0					26.08	26.08	m i ke	EMSC
OrigID 80822033																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	80822007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	26.08		P	03:01:50.635		288.9		8.63		TAS		6.7	1.03	m_e	mb 4.2

Event 80822002 Off coast of Oregon, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/22	09:31:51.46			43.3250	-126.9620				33.0					79.70	80.41	m i ke	BGR
OrigID 80822008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	80822008
Ms	5.8		BGR	80822008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	80.41		S	09:54:04.561						T__				m_e	
GRA1	80.41		P	09:43:58.286		337.5		4.92		TAS		105.4	1.38	m_e	mb 5.6
GRA1	80.41		L	10:18:49.557						T__		4551.4	22.00	a_e	Ms 5.8
MOX	79.70		L	10:20:44.882						T__		4836.5	18.30	a_e	Ms 5.9

Event 80822004 Near coast of Venezuela

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2018/08/22	13:27:40.44			10.6160	-62.6330				33.0					12	68.27	73.38	m i ke	BGR
OrigID 80822010																		

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	80822010
Ms	4.5		BGR	80822010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	68.99		P	13:38:43.277	-0.3	264.7		6.04		TAS		450.9	1.64	a_e	mb 6.4
BFO	69.49		S	13:47:42.808	1.4	265.0		11.23		TAS				m_e	
BFO	69.49		P	13:38:45.677	0.5	264.7		6.04		TAS		72.2	1.37	a_e	mb 5.7
BFO	69.49		PP	13:41:20.680	0.6	265.4		8.53		TAS				m_e	
BRG	73.37		S	13:48:26.741		265.0		11.23		TAS				m_e	

BRG	73.37	P	13:39:09.327	264.7	6.04	TAS	99.9	1.43	a_e	mb	5.7
BRG	73.37	PP	13:41:53.243	265.4	8.53	TAS			m_e		
BSEG	71.46	P	13:38:57.477	264.7	6.04	TAS	297.7	1.73	a_e	mb	6.1
BUG	69.26	P	13:38:44.327	-0.2 264.7	6.04	TAS	324.6	1.49	a_e	mb	6.3
CLL	72.81	P	13:39:05.827	264.7	6.04	TAS	47.0	1.05	a_e	mb	5.5
CLZ	71.23	S	13:48:02.778	265.0	11.23	TAS			m_e		
CLZ	71.23	P	13:38:56.527	264.7	6.04	TAS	293.0	1.69	a_e	mb	6.1
FLT1	71.81	S	13:48:08.269	265.0	11.23	TAS			m_e		
FLT1	71.81	P	13:38:59.527	264.7	6.04	TAS	361.7	1.83	a_e	mb	6.2
FUR	71.43	P	13:38:58.027	264.7	6.04	TAS	249.5	1.39	a_e	mb	6.2
GEC2	73.09	S	13:48:23.247	265.0	11.23	TAS			m_e		
GEC2	73.09	P	13:39:07.627	264.7	6.04	TAS	54.4	0.80	a_e	mb	5.7
GEC2	73.09	PP	13:41:51.529	265.4	8.53	TAS			m_e		
GOR1	71.93	P	13:39:00.577	0.0 264.7	6.04	TAS	478.5	1.92	a_e	mb	6.3
GRA1	71.54	P	13:38:58.327	264.7	6.04	TAS	225.6	1.70	a_e	mb	6.0
GRA1	71.54	PP	13:41:38.771	265.4	8.53	TAS			m_e		
GRA1	71.54	L	14:03:29.479			T__	321.1	20.80	a_e	Ms	4.6
GTTG	70.94	P	13:38:54.677	264.7	6.04	TAS	193.7	1.52	a_e	mb	6.0
HLG	70.07	S	13:47:49.631	265.0	11.23	TAS			m_e		
HLG	70.07	P	13:38:49.227	0.1 264.7	6.04	TAS	84.1	0.84	a_e	mb	5.9
IBBN	69.69	P	13:38:47.077	0.4 264.7	6.04	TAS	293.4	1.33	a_e	mb	6.2
KAST	69.93	S	13:47:48.300	265.0	11.23	TAS			m_e		
KAST	69.93	P	13:38:48.427	-0.0 264.7	6.04	TAS	113.1	1.55	a_e	mb	5.8
KAST	69.93	PP	13:41:24.489	0.4 265.4	8.53	TAS			m_e		
MANZ	72.13	S	13:48:14.617	265.0	11.23	TAS			m_e		
MANZ	72.13	P	13:39:02.177	264.7	6.04	TAS	119.9	1.94	a_e	mb	5.7
MANZ	72.13	PP	13:41:43.151	265.4	8.53	TAS			m_e		
MOX	71.88	P	13:39:00.377	264.7	6.04	TAS	240.5	2.24	a_e	mb	5.9
MOX	71.88	L	14:03:38.631			T__	252.2	21.60	a_e	Ms	4.5
NEUB	72.03	S	13:48:13.095	265.0	11.23	TAS			m_e		
NEUB	72.03	P	13:39:01.177	264.7	6.04	TAS	479.8	2.02	a_e	mb	6.3
NRDL	71.14	S	13:48:00.947	265.0	11.23	TAS			m_e		
NRDL	71.14	P	13:38:56.177	264.7	6.04	TAS	402.6	1.79	a_e	mb	6.2
NRDL	71.14	PP	13:41:34.581	265.4	8.53	TAS			m_e		
PLN	72.21	S	13:48:13.595	265.0	11.23	TAS			m_e		
PLN	72.21	P	13:39:02.277	264.7	6.04	TAS	288.4	1.99	a_e	mb	6.1
PLN	72.21	PP	13:41:44.484	265.4	8.53	TAS			m_e		
RETH	70.73	P	13:38:53.627	0.3 264.7	6.04	TAS	667.7	2.21	a_e	mb	6.4
RGN	73.28	P	13:39:08.677	264.7	6.04	TAS	68.6	0.72	a_e	mb	5.9
RJOB	72.42	S	13:48:15.259	265.0	11.23	TAS			m_e		
RJOB	72.42	P	13:39:03.577	264.7	6.04	TAS	128.6	1.40	a_e	mb	5.9
ROTZ	72.18	S	13:48:12.430	265.0	11.23	TAS			m_e		
ROTZ	72.18	P	13:39:02.377	264.7	6.04	TAS	78.0	2.06	a_e	mb	5.5
RUE	73.38	P	13:39:08.977	264.7	6.04	TAS	72.4	0.57	a_e	mb	6.0
STU	70.12	P	13:38:49.377	-0.1 264.7	6.04	TAS	198.1	1.02	a_e	mb	6.2
STU	70.12	PP	13:41:26.964	0.5 265.4	8.53	TAS			m_e		
TANN	72.39	S	13:48:15.925	265.0	11.23	TAS			m_e		
TANN	72.39	P	13:39:03.577	264.7	6.04	TAS	80.4	1.31	a_e	mb	5.7
TANN	72.39	PP	13:41:46.197	265.4	8.53	TAS			m_e		



CLZ	146.28	PKPbc	15:47:28.115	0.0	15.0	2.60	TAS	m_e
FUR	149.66	PKPdf	15:47:31.626		19.3	1.52	TAS	m_e
FUR	149.66	PKPbc	15:47:36.600		15.0	2.60	TAS	m_e
FUR	149.66	PKPab	15:47:42.926		14.0	4.23	TAS	m_e
GEC2	148.48	PKPdf	15:47:29.379		19.3	1.52	TAS	m_e
GEC2	148.48	PKPbc	15:47:33.847		15.0	2.60	TAS	m_e
GEC2	148.48	PKPab	15:47:38.816		14.0	4.23	TAS	m_e
GRA1	148.21	PKPdf	15:47:29.012		19.3	1.52	TAS	m_e
GRA1	148.21	PKPab	15:47:37.186		14.0	4.23	TAS	m_e
GRA1	148.21	pPKPbc	15:49:42.977				T__	m_e
GTTG	146.63	PKPdf	15:47:27.045	0.1	19.3	1.52	TAS	m_e
GTTG	146.63	PKPbc	15:47:28.814	-0.1	15.0	2.60	TAS	m_e
IBBN	146.16	PKPbc	15:47:27.429	0.0	15.0	2.60	TAS	m_e
KAST	147.17	PKPdf	15:47:27.783	-0.2	19.3	1.52	TAS	m_e
KAST	147.17	PKPbc	15:47:30.297	0.3	15.0	2.60	TAS	m_e
MANZ	147.76	PKPdf	15:47:28.671	-0.3	19.3	1.52	TAS	m_e
MANZ	147.76	PKPbc	15:47:32.168	0.3	15.0	2.60	TAS	m_e
MANZ	147.76	pPKPbc	15:49:39.896				T__	m_e
MOX	147.22	PKPdf	15:47:27.653	0.3	19.3	1.52	TAS	m_e
MOX	147.22	PKPbc	15:47:30.426	0.2	15.0	2.60	TAS	m_e
MOX	147.22	PKPab	15:47:32.642		14.0	4.23	TAS	m_e
MOX	147.22	pPKPbc	15:49:39.437				T__	m_e
NEUB	146.67	PKPdf	15:47:26.870	-0.2	19.3	1.52	TAS	m_e
NEUB	146.67	PKPbc	15:47:28.867	0.3	15.0	2.60	TAS	m_e
NRDL	145.68	PKPbc	15:47:25.870	-0.1	15.0	2.60	TAS	m_e
PLN	147.27	PKPdf	15:47:27.757	0.3	19.3	1.52	TAS	m_e
PLN	147.27	PKPbc	15:47:30.810	0.0	15.0	2.60	TAS	m_e
PLN	147.27	pPKPbc	15:49:39.600				T__	m_e
RJOB	149.74	PKPdf	15:47:31.526		19.3	1.52	TAS	m_e
RJOB	149.74	PKPbc	15:47:36.736		15.0	2.60	TAS	m_e
RJOB	149.74	PKPab	15:47:43.908		14.0	4.23	TAS	m_e
RJOB	149.74	pPKPbc	15:49:46.439				T__	m_e
ROTZ	147.95	PKPdf	15:47:28.636		19.3	1.52	TAS	m_e
ROTZ	147.95	PKPbc	15:47:32.674	-0.4	15.0	2.60	TAS	m_e
ROTZ	147.95	pPKPbc	15:49:41.626				T__	m_e
STU	149.44	PKPdf	15:47:31.444		19.3	1.52	TAS	m_e
STU	149.44	PKPbc	15:47:36.465		15.0	2.60	TAS	m_e
STU	149.44	PKPab	15:47:41.722		14.0	4.23	TAS	m_e
TANN	147.28	PKPdf	15:47:27.927	0.2	19.3	1.52	TAS	m_e
TANN	147.28	PKPbc	15:47:30.791	-0.1	15.0	2.60	TAS	m_e
TANN	147.28	pPKPbc	15:49:38.916				T__	m_e
TNS	148.13	PKPdf	15:47:29.355		19.3	1.52	TAS	m_e
TNS	148.13	PKPbc	15:47:32.945	-0.4	15.0	2.60	TAS	m_e
TNS	148.13	PKPab	15:47:36.628		14.0	4.23	TAS	m_e
TNS	148.13	pPKPbc	15:49:43.084				T__	m_e
UBBA	147.33	PKPdf	15:47:27.603	0.1	19.3	1.52	TAS	m_e
UBBA	147.33	PKPbc	15:47:30.517	0.4	15.0	2.60	TAS	m_e
UBR	150.35	PKPdf	15:47:32.466		19.3	1.52	TAS	m_e
UBR	150.35	PKPbc	15:47:38.301		15.0	2.60	TAS	m_e

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UBR	150.35	pPKPbc	15:49:48.535							T__							m_e
WET	148.39	PKPdf	15:47:29.298	19.3		1.52				TAS							m_e
WET	148.39	PKPbc	15:47:33.598	15.0		2.60				TAS							m_e
WET	148.39	PKPab	15:47:38.194	14.0		4.23				TAS							m_e
WET	148.39	pPKPbc	15:49:42.645							T__							m_e
WLF	148.93	PKPdf	15:47:31.048	19.3		1.52				TAS							m_e
WLF	148.93	PKPbc	15:47:35.382	15.0		2.60				TAS							m_e
WLF	148.93	PKPab	15:47:40.545	14.0		4.23				TAS							m_e
WLF	148.93	pPKPbc	15:49:44.764							T__							m_e

Event 80822008 Near coast of Guerrero, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/22	18:03:07.22			16.1230	-99.3280				31.9					90.53	90.53	m i ke	BGR
80822014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	80822014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	90.53		P	18:16:05.594		288.8		4.75		TAS		18.6	1.08	m_e mb	5.3
GRA1	90.53		pP	18:16:14.939						T__				m_e	

Event 80822009 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/22	18:49:37.90			-7.0100	155.7900				54.0				31	125.06	130.44	m i ke	EMSC
80822041																	

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
AHRW	129.39		PKPdf	19:08:40.902	-0.0	47.0		1.91		TAS				m_e	
AHRW	129.39		pPKPdf	19:08:54.286						T__				m_e	
BFO	130.44		PKPdf	19:08:42.635	-0.0	47.0		1.91		TAS				m_e	
BRG	126.04		PKPdf	19:08:33.996	-0.2	47.0		1.91		TAS				m_e	
BRG	126.04		pPKPdf	19:08:47.146						T__				m_e	
BSEG	125.54		PKPdf	19:08:33.744	0.0	47.0		1.91		TAS				m_e	
BUG	128.64		PKPdf	19:08:39.352	-0.2	47.0		1.91		TAS				m_e	
BUG	128.64		pPKPdf	19:08:52.623						T__				m_e	
CLL	126.20		PKPdf	19:08:34.561	0.2	47.0		1.91		TAS				m_e	
CLL	126.20		pPKPdf	19:08:47.549						T__				m_e	
CLZ	127.02		PKPdf	19:08:36.407	0.0	47.0		1.91		TAS				m_e	

CLZ	127.02	pPKPdf	19:08:49.456				T__	m_e
FLT1	126.30	PKPdf	19:08:35.038	0.0	47.0	1.91	TAS	m_e
FLT1	126.30	pPKPdf	19:08:47.695				T__	m_e
FUR	129.14	PKPdf	19:08:40.305	-0.1	47.0	1.91	TAS	m_e
FUR	129.14	pPKPdf	19:08:53.590				T__	m_e
GEC2	127.47	PKPdf	19:08:37.309	-0.2	47.0	1.91	TAS	m_e
GEC2	127.47	pPKPdf	19:08:50.346				T__	m_e
GOR1	125.80	PKPdf	19:08:34.096	0.0	47.0	1.91	TAS	m_e
GRA1	128.13	PKPdf	19:08:38.393	0.2	47.0	1.91	TAS	m_e
GRA1	128.13	pPKPdf	19:08:51.460				T__	m_e
GTTG	127.41	PKPdf	19:08:37.140	-0.2	47.0	1.91	TAS	m_e
GTTG	127.41	pPKPdf	19:08:50.262				T__	m_e
HLG	126.32	PKPdf	19:08:35.252	0.0	47.0	1.91	TAS	m_e
HLG	126.32	pPKPdf	19:08:48.147				T__	m_e
IBBN	127.79	PKPdf	19:08:37.910	0.0	47.0	1.91	TAS	m_e
IBBN	127.79	pPKPdf	19:08:51.327				T__	m_e
KAST	128.33	PKPdf	19:08:39.084	-0.0	47.0	1.91	TAS	m_e
KAST	128.33	pPKPdf	19:08:52.010				T__	m_e
MANZ	127.51	PKPdf	19:08:37.451	0.3	47.0	1.91	TAS	m_e
MANZ	127.51	pPKPdf	19:08:50.532				T__	m_e
MOX	127.29	PKPdf	19:08:36.634	-0.4	47.0	1.91	TAS	m_e
MOX	127.29	pPKPdf	19:08:50.058				T__	m_e
NEUB	126.84	PKPdf	19:08:35.973	-0.4	47.0	1.91	TAS	m_e
NEUB	126.84	pPKPdf	19:08:49.021				T__	m_e
NRDL	126.67	PKPdf	19:08:35.880	0.5	47.0	1.91	TAS	m_e
NRDL	126.67	pPKPdf	19:08:48.694				T__	m_e
PLN	127.15	PKPdf	19:08:36.132	0.1	47.0	1.91	TAS	m_e
PLN	127.15	pPKPdf	19:08:49.717				T__	m_e
RETH	126.81	PKPdf	19:08:36.088	0.1	47.0	1.91	TAS	m_e
RETH	126.81	pPKPdf	19:08:49.066				T__	m_e
RJOB	128.65	PKPdf	19:08:39.377		47.0	1.91	TAS	m_e
RJOB	128.65	pPKPdf	19:08:52.842				T__	m_e
ROTZ	127.61	PKPdf	19:08:37.582	-0.0	47.0	1.91	TAS	m_e
ROTZ	127.61	pPKPdf	19:08:50.599				T__	m_e
RUE	125.06	PKPdf	19:08:33.053	-0.1	47.0	1.91	TAS	m_e
STU	129.73	PKPdf	19:08:41.630	-0.0	47.0	1.91	TAS	m_e
STU	129.73	pPKPdf	19:08:54.653				T__	m_e
TANN	127.05	PKPdf	19:08:36.320	0.2	47.0	1.91	TAS	m_e
TANN	127.05	pPKPdf	19:08:49.541				T__	m_e
TNS	129.03	PKPdf	19:08:40.325	0.2	47.0	1.91	TAS	m_e
TNS	129.03	pPKPdf	19:08:53.437				T__	m_e
UBBA	127.91	PKPdf	19:08:37.913		47.0	1.91	TAS	m_e
UBBA	127.91	pPKPdf	19:08:51.446				T__	m_e
UBR	130.04	PKPdf	19:08:41.962		47.0	1.91	TAS	m_e
UBR	130.04	pPKPdf	19:08:55.255				T__	m_e
WET	127.69	PKPdf	19:08:37.656	0.2	47.0	1.91	TAS	m_e
WET	127.69	pPKPdf	19:08:51.037				T__	m_e
WLF	130.44	PKPdf	19:08:43.226	0.1	47.0	1.91	TAS	m_e



Event 80822010 South of Africa

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/22	20:26:29.70			-52.7700	27.8700				10.0					103.06	103.95	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms	5.5		BGR	80822016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	103.06		PP	20:44:38.182						T__					m_e
GRA1	103.06		L	21:28:59.537						T__		1230.5	19.90	a_e	Ms 5.4
MOX	103.95		L	21:28:56.538						T__		1364.1	20.90	a_e	Ms 5.5

Event 80822011 Balleny Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/22	22:49:10.30			-61.2600	154.1400				10.0					156.36	156.82	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms	5.0		BGR	80822017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	156.36		PKP	23:09:37.386		133.4		4.99		TAS					m_e
GRA1	156.36		L	00:23:43.771						T__		210.3	21.90	a_e	Ms 4.9
MOX	156.82		L	00:31:24.697						T__		288.5	20.80	a_e	Ms 5.1

Event 80823003 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/23	03:35:17.87			51.5950	178.2380				33.0				13	77.51	79.29	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	80823009
Ms	6.0		BGR	80823009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.49		S	03:57:07.612	1.2	341.2		9.11		TAS					m_e

GRA1	78.49	P	03:47:14.016		10.3	4.82	TAS	95.9	1.38	m_e	mb	5.7
GRA1	78.49	L	04:22:38.483				T__	8417.4	21.60	a_e	Ms	6.0
GRA2	78.51	S	03:57:09.493	-0.5	341.2	9.11	TAS			m_e		
GRA3	78.41	S	03:57:07.612	-0.6	341.2	9.11	TAS			m_e		
GRA4	78.59	S	03:57:11.374	-0.3	341.2	9.11	TAS			m_e		
GRB1	78.74	S	03:57:11.374		341.2	9.11	TAS			m_e		
GRB2	78.86	S	03:57:14.195		341.2	9.11	TAS			m_e		
GRB3	78.78	S	03:57:12.314		341.2	9.11	TAS			m_e		
GRB4	78.68	S	03:57:12.314	0.9	341.2	9.11	TAS			m_e		
GRB5	79.02	S	03:57:14.195		341.2	9.11	TAS			m_e		
GRC1	79.15	S	03:57:15.136		341.2	9.11	TAS			m_e		
GRC2	79.29	S	03:57:17.016		341.2	9.11	TAS			m_e		
GRC3	79.25	S	03:57:15.136		341.2	9.11	TAS			m_e		
GRC4	79.06	S	03:57:14.195		341.2	9.11	TAS			m_e		
MOX	77.51	L	04:21:58.883				T__	6520.0	21.20	a_e	Ms	5.9

Event 80823004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/23	03:41:09.28			-19.0000	-177.8400				500.0			24		146.60	150.67	m i ke	BGR
	80823010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	148.29		PKPdf	03:59:54.376	0.3	14.8		1.50		TAS				m_e	
AHRW	148.29		PKPbc	03:59:58.294		16.9		2.56		TAS				m_e	
AHRW	148.29		PKPab	04:00:01.744		14.6		4.19		TAS				m_e	
BFO	150.32		PKPdf	03:59:57.532		14.8		1.50		TAS				m_e	
BFO	150.32		PKPbc	04:00:02.961		16.9		2.56		TAS				m_e	
BRG	146.85		PKPdf	03:59:52.167	0.2	14.8		1.50		TAS				m_e	
BRG	146.85		PKPbc	03:59:54.525	-0.0	16.9		2.56		TAS				m_e	
BUG	147.38		PKPdf	03:59:52.672	-0.1	14.8		1.50		TAS				m_e	
CLL	146.64		PKPdf	03:59:51.977	0.3	14.8		1.50		TAS				m_e	
CLL	146.64		PKPbc	03:59:53.647	0.2	16.9		2.56		TAS				m_e	
CLZ	146.60		PKPdf	03:59:52.104	0.2	14.8		1.50		TAS				m_e	
FUR	149.98		PKPbc	04:00:02.582		16.9		2.56		TAS				m_e	
FUR	149.98		PKPab	04:00:08.845		14.6		4.19		TAS				m_e	
GEC2	148.80		PKPdf	03:59:55.134		14.8		1.50		TAS				m_e	
GEC2	148.80		PKPbc	03:59:59.489		16.9		2.56		TAS				m_e	
GEC2	148.80		PKPab	04:00:04.661		14.6		4.19		TAS				m_e	
GRA1	148.53		PKPdf	03:59:54.502		14.8		1.50		TAS				m_e	
GRA1	148.53		PKPbc	03:59:58.858		16.9		2.56		TAS				m_e	
GRA1	148.53		PKPab	04:00:02.898		14.6		4.19		TAS				m_e	
GTTG	146.94		PKPdf	03:59:52.356	-0.2	14.8		1.50		TAS				m_e	
GTTG	146.94		PKPbc	03:59:54.376	0.2	16.9		2.56		TAS				m_e	

KAST	147.49	PKPdf	03:59:52.735	-0.1	14.8	1.50	TAS	m_e
KAST	147.49	PKPbc	03:59:56.136	0.0	16.9	2.56	TAS	m_e
MANZ	148.08	PKPdf	03:59:54.187	-0.2	14.8	1.50	TAS	m_e
MANZ	148.08	PKPbc	03:59:57.722	-0.4	16.9	2.56	TAS	m_e
MOX	147.54	PKPdf	03:59:52.924	-0.1	14.8	1.50	TAS	m_e
MOX	147.54	PKPbc	03:59:56.113	0.3	16.9	2.56	TAS	m_e
NEUB	146.99	PKPdf	03:59:52.419	0.1	14.8	1.50	TAS	m_e
NEUB	146.99	PKPbc	03:59:54.623	0.2	16.9	2.56	TAS	m_e
PLN	147.59	PKPdf	03:59:53.114	-0.1	14.8	1.50	TAS	m_e
PLN	147.59	PKPbc	03:59:56.207	0.1	16.9	2.56	TAS	m_e
RJOB	150.05	PKPdf	03:59:56.901		14.8	1.50	TAS	m_e
RJOB	150.05	PKPbc	04:00:02.330		16.9	2.56	TAS	m_e
RJOB	150.05	PKPab	04:00:09.958		14.6	4.19	TAS	m_e
ROTZ	148.26	PKPdf	03:59:54.060	0.2	14.8	1.50	TAS	m_e
ROTZ	148.26	PKPbc	03:59:58.227	-0.1	16.9	2.56	TAS	m_e
STU	149.76	PKPdf	03:59:56.396		14.8	1.50	TAS	m_e
STU	149.76	PKPbc	04:00:01.951		16.9	2.56	TAS	m_e
STU	149.76	PKPab	04:00:07.668		14.6	4.19	TAS	m_e
TANN	147.60	PKPdf	03:59:53.492	0.0	14.8	1.50	TAS	m_e
TANN	147.60	PKPbc	03:59:56.270	0.2	16.9	2.56	TAS	m_e
TNS	148.45	PKPdf	03:59:54.376		14.8	1.50	TAS	m_e
TNS	148.45	PKPbc	03:59:58.732		16.9	2.56	TAS	m_e
TNS	148.45	PKPab	04:00:02.587		14.6	4.19	TAS	m_e
UBBA	147.65	PKPdf	03:59:53.555	-0.1	14.8	1.50	TAS	m_e
UBBA	147.65	PKPbc	03:59:56.037	-0.3	16.9	2.56	TAS	m_e
UBR	150.67	PKPdf	03:59:58.164		14.8	1.50	TAS	m_e
UBR	150.67	PKPbc	04:00:04.034		16.9	2.56	TAS	m_e
WET	148.71	PKPdf	03:59:54.944		14.8	1.50	TAS	m_e
WET	148.71	PKPbc	03:59:59.197		16.9	2.56	TAS	m_e
WET	148.71	PKPab	04:00:04.078		14.6	4.19	TAS	m_e
WLF	149.24	PKPdf	03:59:55.828		14.8	1.50	TAS	m_e
WLF	149.24	PKPbc	04:00:01.194		16.9	2.56	TAS	m_e
WLF	149.24	PKPab	04:00:06.588		14.6	4.19	TAS	m_e

Event 80823005 Peru-Bolivia border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/23	09:44:02.50			-17.2500	-69.4000				159.0					97.06	97.06	m i ke	EMSC
	80823037																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	97.06		Pdiff	09:57:16.263						T__					m_e

Event 80823006 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/23	10:52:45.50			27.1000	54.2000				10.0					39.82	39.82	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	80823012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	39.82		P	11:00:17.576		108.4		9.14		TAS		7.1	1.00	m_e mb	4.2

Event 80824002 Peru-Brazil border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/24	09:04:10.42			-10.8400	-70.2900				643.0	6.4		31		89.56	94.70	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	7.2		BGR	80824008
MBB	7.5		BGR	80824008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	90.39		P	09:16:05.621	0.3	256.5		4.65		TAS		1935.2	1.20	a_e MBB	7.4
AHRW	90.39		pP	09:18:21.583	-0.0					T__				m_e	
BFO	90.56		P	09:16:05.643	-0.5	256.5		4.65		TAS		415.7	1.12	m_e MBB	7.3
BRG	94.70		P	09:16:25.421	0.0	256.5		4.65		TAS		1069.8	1.10	a_e MBB	7.4
BSEG	93.20		P	09:16:18.121	-0.4	256.5		4.65		TAS		1857.0	1.35	a_e MBB	7.4
BSEG	93.20		pP	09:18:34.367						T__				m_e	
BUG	90.76		P	09:16:06.921	-0.2	256.5		4.65		TAS		4976.8	1.47	a_e MBB	7.6
CLL	94.21		P	09:16:23.021	-0.1	256.5		4.65		TAS		2137.0	1.43	a_e MBB	7.3
CLZ	92.73		P	09:16:16.471	0.2	256.5		4.65		TAS		1391.1	1.10	a_e MBB	7.5
CLZ	92.73		pP	09:18:32.593						T__				m_e	
FLT1	93.36		P	09:16:18.721	-0.5	256.5		4.65		TAS		1253.1	1.26	a_e MBB	7.4
FUR	92.43		P	09:16:14.721	-0.1	256.5		4.65		TAS		1921.6	1.14	a_e MBB	7.6
GEC2	94.15		P	09:16:22.421	-0.4	256.5		4.65		TAS		1921.7	1.47	a_e MBB	7.3
GEC2	94.15		pP	09:18:39.765						T__				m_e	
GOR1	93.56		P	09:16:20.021	-0.1	256.5		4.65		TAS		2330.8	1.43	a_e MBB	7.5
GRA1	92.75		P	09:16:16.527	0.2	256.5		4.65		TAS		1997.4	1.29	m_e mb	7.4
GTTG	92.41		P	09:16:14.871	0.1	256.5		4.65		TAS		1578.1	1.14	a_e MBB	7.4
HLG	91.88		P	09:16:12.271	-0.1	256.5		4.65		TAS		2560.8	1.27	a_e MBB	7.6
IBBN	91.29		P	09:16:09.421	-0.1	256.5		4.65		TAS		5019.2	1.43	a_e MBB	7.6
KAST	91.39		P	09:16:09.821	-0.2	256.5		4.65		TAS		1273.8	1.36	a_e MBB	7.3
KAST	91.39		pP	09:18:25.714						T__				m_e	

MANZ	93.37	P	09:16:19.471	0.3	256.5	4.65	TAS	440.6	1.21	a_e	MBB	7.0
MOX	93.21	P	09:16:18.621	0.1	256.5	4.65	TAS	905.9	1.38	a_e	MBB	7.5
NEUB	93.43	P	09:16:19.621	0.1	256.5	4.65	TAS	1358.2	1.14	a_e	MBB	7.6
NRDL	92.73	P	09:16:16.571	0.3	256.5	4.65	TAS	1140.6	1.31	a_e	MBB	7.6
NRDL	92.73	pP	09:18:32.498				T__				m_e	
PLN	93.51	P	09:16:20.071	0.2	256.5	4.65	TAS	2287.2	1.52	a_e	MBB	7.4
RETH	92.35	P	09:16:14.771	0.3	256.5	4.65	TAS	3355.8	1.41	a_e	MBB	7.6
RJOB	93.33	P	09:16:18.771	-0.2	256.5	4.65	TAS	2400.6	1.46	a_e	MBB	7.5
ROTZ	93.39	P	09:16:19.371	0.1	256.5	4.65	TAS	392.4	1.17	a_e	MBB	6.9
STU	91.23	P	09:16:08.971	-0.3	256.5	4.65	TAS	7559.2	1.50	a_e	MBB	7.8
TANN	93.69	P	09:16:21.021	0.3	256.5	4.65	TAS	1088.2	1.16	m_e	MBB	7.5
TNS	91.14	P	09:16:08.871	0.0	256.5	4.65	TAS	2239.7	1.31	a_e	MBB	7.5
TNS	91.14	pP	09:18:25.054	0.1			T__				m_e	
UBBA	92.26	P	09:16:14.037	0.0	256.5	4.65	TAS	1470.0	1.34	m_e	MBB	7.4
UBR	91.55	P	09:16:11.021	0.3	256.5	4.65	TAS	1604.7	1.18	a_e	MBB	7.6
WET	93.68	P	09:16:20.571	-0.1	256.5	4.65	TAS	1821.9	1.34	a_e	MBB	7.4
WLF	89.56	P	09:16:01.721	0.2	256.5	4.65	TAS	3178.6	1.31	a_e	MBB	7.5

Event 80824004 Nicobar Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/24	10:49:28.94		9.9280	91.2430				21.5		1.2		18		74.35	78.71	m i ke	BGR
80824010																	

Magnitude Err Nsta Author OrigID  
 mb 5.1 BGR 80824010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.71		P	11:01:28.404	0.2	91.1		5.70		TAS		45.6	1.39	m_e	mb 5.3
BFO	77.96		P	11:01:23.417		91.1		5.70		TAS		17.6	1.11	m_e	mb 5.1
BRG	74.35		P	11:01:03.203	0.7	91.1		5.70		TAS		19.6	0.95	m_e	mb 5.1
BSEG	76.70		P	11:01:16.739	0.2	91.1		5.70		TAS		35.9	0.99	m_e	mb 5.5
BSEG	76.70		pP	11:01:22.999						T__				m_e	
CLL	74.97		P	11:01:06.320	0.1	91.1		5.70		TAS		30.0	1.28	m_e	mb 5.2
CLL	74.97		pP	11:01:12.708						T__				m_e	
CLZ	76.63		P	11:01:16.382	0.2	91.1		5.70		TAS		20.4	0.88	m_e	mb 5.3
GEC2	74.40		P	11:01:03.827		91.1		5.70		TAS		21.3	0.99	m_e	mb 5.1
GEC2	74.40		pP	11:01:09.660						T__				m_e	
GOR1	76.08		P	11:01:12.820	-0.3	91.1		5.70		TAS		49.8	1.37	m_e	mb 5.5
GRA1	76.05		pP	11:01:19.588						T__				m_e	
MANZ	75.48		P	11:01:10.327		91.1		5.70		TAS		13.0	1.33	m_e	mb 4.8
MANZ	75.48		pP	11:01:16.728						T__				m_e	
MOX	75.82		P	11:01:11.752	0.2	91.1		5.70		TAS		12.5	0.97	m_e	mb 5.0
PLN	75.47		P	11:01:09.704	-0.5	91.1		5.70		TAS		13.1	0.95	m_e	mb 4.9
RJOB	74.96		P	11:01:06.409		91.1		5.70		TAS		16.1	1.17	m_e	mb 4.9
ROTZ	75.41		P	11:01:10.060		91.1		5.70		TAS		7.4	1.13	m_e	mb 4.6

./bull1808.txt

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RUE	74.55	P	11:01:04.183	-0.5	91.1	5.70	TAS	136.2	1.51	m_e	mb	5.8
TANN	75.27	P	11:01:08.724	-0.4	91.1	5.70	TAS	19.9	1.29	m_e	mb	5.0
TNS	77.84	P	11:01:23.328	-0.2	91.1	5.70	TAS	19.6	1.10	m_e	mb	5.2
TNS	77.84	pP	11:01:29.406				T__			m_e		
UBR	76.77	P	11:01:16.917		91.1	5.70	TAS	14.8	0.83	m_e	mb	5.2
UBR	76.77	pP	11:01:23.199				T__			m_e		
WET	74.95	P	11:01:07.032		91.1	5.70	TAS	21.5	1.18	m_e	mb	5.1
WET	74.95	pP	11:01:12.997				T__			m_e		

Event 80824007 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2018/08/24	14:15:58.05			41.6830	142.5820				62.0	4.4		19		76.33	81.69	m i ke	BGR
80824013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	80824013
Ms	4.6		BGR	80824013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	80.26		P	14:28:04.002	0.3	34.8		5.46		TAS		29.1	1.05	m_e	mb	5.1
BFO	81.69		P	14:28:11.425		34.8		5.46		TAS		37.3	1.28	m_e	mb	5.4
BFO	81.69		pP	14:28:29.579						T__				m_e		
BRG	77.51		P	14:27:48.936	0.3	34.8		5.46		TAS		13.6	1.01	m_e	mb	5.0
BSEG	76.33		P	14:27:42.615	0.0	34.8		5.46		TAS		37.6	0.95	m_e	mb	5.5
BUG	79.43		P	14:27:59.208		34.8		5.46		TAS		61.4	1.31	m_e	mb	5.5
CLL	77.52		P	14:27:48.715	-0.1	34.8		5.46		TAS		35.2	0.93	m_e	mb	5.5
CLZ	78.03		P	14:27:52.316	-0.1	34.8		5.46		TAS		29.7	0.92	m_e	mb	5.4
FLT1	77.33		P	14:27:47.686	-0.2	34.8		5.46		TAS		39.5	0.91	m_e	mb	5.5
FLT1	77.33		pP	14:28:03.819						T__				m_e		
GEC2	79.24		P	14:27:58.563		34.8		5.46		TAS		10.9	0.83	m_e	mb	4.9
GRA1	79.49		L	15:06:09.772						T__		314.9	22.00	a_e	Ms	4.6
IBBN	78.54		P	14:27:54.742	0.1	34.8		5.46		TAS		47.1	0.99	m_e	mb	5.5
KAST	79.24		P	14:27:58.563	-0.1	34.8		5.46		TAS		14.6	0.91	m_e	mb	5.0
MANZ	78.92		P	14:27:56.726		34.8		5.46		TAS		3.4	0.92	m_e	mb	4.4
MOX	78.57		P	14:27:54.815	-0.5	34.8		5.46		TAS		15.3	1.01	m_e	mb	5.0
MOX	78.57		L	15:05:42.159						T__		266.2	20.70	a_e	Ms	4.6
NEUB	78.06		pP	14:28:08.209						T__				m_e		
NRDL	77.59		P	14:27:49.450	0.4	34.8		5.46		TAS		16.5	1.03	m_e	mb	5.1
PLN	78.50		P	14:27:54.301		34.8		5.46		TAS		9.6	0.87	m_e	mb	4.9
RETH	77.64		P	14:27:49.964	-0.4	34.8		5.46		TAS		26.0	1.02	m_e	mb	5.3
RJOB	80.49		P	14:28:05.692		34.8		5.46		TAS		29.3	0.88	m_e	mb	5.2
ROTZ	79.06		P	14:27:57.975		34.8		5.46		TAS		4.4	0.97	m_e	mb	4.5
TANN	78.44		P	14:27:54.080		34.8		5.46		TAS		8.0	0.97	m_e	mb	4.8
WET	79.31		P	14:27:59.225		34.8		5.46		TAS		25.3	0.98	m_e	mb	5.2

Event 80825001 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/25	16:50:12.21			53.6310	-171.4040				33.0			34		72.79	79.06	m i ke	BGR
OrigID 80825007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	80825007
Ms	5.5		BGR	80825007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	76.19		P	17:01:55.194	0.1	1.6		5.65		TAS		55.2	0.93	a_e mb	5.7
BFO	78.42		P	17:02:07.294		1.6		5.65		TAS		40.9	0.96	a_e mb	5.5
BRG	75.77		P	17:01:52.544	-0.1	1.6		5.65		TAS		66.7	1.02	a_e mb	5.7
BSEG	72.79		P	17:01:35.794	0.1	1.6		5.65		TAS		75.1	0.99	a_e mb	5.8
BUG	75.30		P	17:01:49.644	0.1	1.6		5.65		TAS		59.0	0.94	a_e mb	5.6
CLL	75.37		P	17:01:49.944	-0.1	1.6		5.65		TAS		49.4	0.96	a_e mb	5.5
CLZ	74.89		P	17:01:48.094	-0.3	1.6		5.65		TAS		76.7	0.94	a_e mb	5.7
FLT1	74.39		P	17:01:44.294	0.3	1.6		5.65		TAS		40.2	0.87	a_e mb	5.5
FUR	78.56		P	17:02:08.244		1.6		5.65		TAS		65.6	0.99	a_e mb	5.6
GRA1	77.03		P	17:02:00.194	0.2	1.6		5.65		TAS		99.6	0.87	a_e mb	6.0
GRA1	77.03		L	17:42:37.097						T__		2093.3	20.50	a_e Ms	5.4
GRA2	77.06		P	17:02:00.394	0.2	1.6		5.65		TAS		150.8	0.91	a_e mb	6.1
GRA4	77.15		P	17:02:00.694	-0.0	1.6		5.65		TAS		131.5	0.89	a_e mb	6.1
GRB1	77.32		P	17:02:01.644	-0.3	1.6		5.65		TAS		149.9	0.95	a_e mb	6.1
GRB2	77.44		P	17:02:02.094	-0.2	1.6		5.65		TAS		113.6	0.87	a_e mb	6.0
GRB3	77.37		P	17:02:01.894	-0.3	1.6		5.65		TAS		111.1	0.95	a_e mb	6.0
GRB4	77.25		P	17:02:01.244	0.2	1.6		5.65		TAS		172.6	1.00	m_e mb	6.1
GTTG	75.19		P	17:01:49.644	-0.5	1.6		5.65		TAS		74.9	0.97	a_e mb	5.7
IBBN	74.43		P	17:01:45.144	0.4	1.6		5.65		TAS		121.9	0.86	a_e mb	6.0
KAST	75.54		P	17:01:51.394	-0.1	1.6		5.65		TAS		35.8	1.00	a_e mb	5.5
MANZ	76.72		P	17:01:57.944	0.4	1.6		5.65		TAS		8.9	1.05	a_e mb	4.8
MOX	76.07		P	17:01:54.294	-0.1	1.6		5.65		TAS		56.4	0.84	a_e mb	5.7
MOX	76.07		L	17:39:22.962						T__		2478.8	19.40	a_e Ms	5.5
NEUB	75.51		P	17:01:51.144	0.0	1.6		5.65		TAS		105.7	0.89	a_e mb	6.0
NRDL	74.24		P	17:01:43.844	0.1	1.6		5.65		TAS		44.4	0.96	a_e mb	5.5
PLN	76.21		P	17:01:55.094	-0.0	1.6		5.65		TAS		32.8	0.94	a_e mb	5.4
RETH	74.00		P	17:01:42.744	0.0	1.6		5.65		TAS		43.6	0.99	a_e mb	5.4
RJOB	78.95		P	17:02:10.294		1.6		5.65		TAS		43.8	0.84	a_e mb	5.5
ROTZ	76.93		P	17:01:59.394	0.4	1.6		5.65		TAS		9.7	0.95	a_e mb	4.9
RUE	74.18		P	17:01:43.644	-0.6	1.6		5.65		TAS		106.3	1.07	a_e mb	5.8
STU	77.97		P	17:02:04.794		1.6		5.65		TAS		126.2	0.94	a_e mb	6.0
TANN	76.28		P	17:01:55.694	-0.1	1.6		5.65		TAS		37.9	1.14	a_e mb	5.4
TNS	76.52		P	17:01:56.844	0.1	1.6		5.65		TAS		46.7	0.88	a_e mb	5.6
UBBA	75.92		P	17:01:53.544	0.2	1.6		5.65		TAS		48.1	1.58	a_e mb	5.4
UBR	79.06		P	17:02:11.094		1.6		5.65		TAS		58.5	1.15	a_e mb	5.5

WET 77.54 P 17:02:02.844 -0.3 1.6 5.65 TAS 39.0 1.10 a\_e mb 5.5

## Event 80825002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/25	18:25:36.20			44.2000	149.5400				5.0			10		77.35	79.66	m i ke	EMSC
OrigID 80825034																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	80825008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	77.69		P	18:37:33.278		29.1		5.91		TAS		17.1	0.93	m_e mb	5.2
CLZ	78.04		P	18:37:35.999	0.1	29.1		5.91		TAS		6.5	0.82	m_e mb	4.8
FLT1	77.35		P	18:37:31.219	0.0	29.1		5.91		TAS		9.6	0.83	m_e mb	5.0
GRA1	79.66		P	18:37:44.966		29.1		5.91		TAS				m_e	
IBBN	78.38		P	18:37:38.317	-0.1	29.1		5.91		TAS		15.9	0.74	m_e mb	5.2
KAST	79.18		P	18:37:42.035		29.1		5.91		TAS		4.2	0.81	m_e mb	4.5
MANZ	79.12		P	18:37:41.751		29.1		5.91		TAS		1.1	0.94	m_e mb	3.9
PLN	78.67		P	18:37:39.100		29.1		5.91		TAS		4.0	0.89	m_e mb	4.5
ROTZ	79.28		P	18:37:42.545		29.1		5.91		TAS		1.8	1.04	m_e mb	4.0
WET	79.61		P	18:37:44.504		29.1		5.91		TAS		9.2	0.94	m_e mb	4.7

## Event 80825003 Western Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/25	22:13:25.80			34.5800	46.3000				10.0			28		27.95	32.94	m i ke	EMSC
OrigID 80825035																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.3		BGR	80825009
MBB	6.6		BGR	80825009
Ms	5.6		BGR	80825009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	32.56		P	22:19:56.148	0.1	107.2		8.95		TAS		4067.2	2.90	m_e MBB	6.6
BFO	31.26		P	22:19:43.045		107.2		8.95		TAS		351.4	1.93	m_e MBB	6.4
BRG	28.51		P	22:19:19.880	-0.6	107.2		8.95		TAS		409.1	1.43	m_e MBB	6.3
BSEG	31.74		P	22:19:48.907	0.8	107.2		8.95		TAS		700.2	1.25	m_e MBB	6.8
BUG	32.67		P	22:19:57.431	-0.3	107.2		8.95		TAS		734.9	1.50	m_e MBB	6.7
CLL	29.23		P	22:19:25.989	-0.4	107.2		8.95		TAS		446.3	1.37	m_e MBB	6.4
CLZ	30.95		P	22:19:41.922	0.1	107.2		8.95		TAS		1026.6	1.67	m_e MBB	6.6
FLT1	30.62		P	22:19:38.465	-0.6	107.2		8.95		TAS		1922.7	1.94	m_e MBB	6.7



FUR	29.30	P	22:19:26.904	107.2	8.95	TAS	692.1	0.92	m_e	MBB	7.0
GEC2	27.95	P	22:19:14.926	1.0 107.2	8.95	TAS	497.0	1.69	m_e	MBB	6.5
GOR1	30.83	P	22:19:41.009	0.7 107.2	8.95	TAS	1702.1	1.18	m_e	MBB	7.2
GRA1	29.76	P	22:19:31.325	0.7 107.2	8.95	TAS	7816.2	2.85	m_e	mb	7.0
GRA1	29.76	L	22:34:01.428			T__	14711.8	19.90	a_e	Ms	5.6
KAST	31.91	P	22:19:50.686	-0.5 107.2	8.95	TAS	943.0	1.66	m_e	MBB	6.7
MANZ	29.30	P	22:19:27.062	0.1 107.2	8.95	TAS	67.5	1.32	m_e	MBB	6.0
MOX	29.81	P	22:19:31.405	-0.1 107.2	8.95	TAS	172.3	1.40	m_e	MBB	6.2
MOX	29.81	L	22:35:09.709			T__	14708.5	18.00	a_e	Ms	5.7
NEUB	29.91	P	22:19:32.380	-0.0 107.2	8.95	TAS	137.7	0.95	m_e	MBB	6.3
NRDL	31.33	P	22:19:45.921	-0.5 107.2	8.95	TAS	975.8	1.45	m_e	MBB	6.8
PLN	29.43	P	22:19:27.843	-0.6 107.2	8.95	TAS	140.9	1.48	m_e	MBB	6.1
RETH	31.84	P	22:19:50.588	0.2 107.2	8.95	TAS	1748.1	1.34	m_e	MBB	7.1
RJOB	28.21	P	22:19:17.231	107.2	8.95	TAS	439.6	1.48	m_e	MBB	6.6
ROTZ	29.17	P	22:19:26.117	-0.5 107.2	8.95	TAS	1411.6	2.87	m_e	MBB	6.2
RUE	29.25	P	22:19:26.580	-0.1 107.2	8.95	TAS	634.8	1.02	m_e	MBB	6.8
STU	30.80	P	22:19:39.252	107.2	8.95	TAS	635.8	1.30	m_e	MBB	6.8
TANN	29.23	P	22:19:26.058	0.2 107.2	8.95	TAS	561.2	2.01	m_e	MBB	6.3
UBBA	30.84	P	22:19:40.683	-0.6 107.2	8.95	TAS	473.0	1.69	m_e	MBB	6.5
UBR	29.95	P	22:19:32.477	107.2	8.95	TAS	769.5	1.38	m_e	MBB	6.8
WET	28.56	P	22:19:19.931	0.9 107.2	8.95	TAS	304.4	1.33	m_e	MBB	6.5
WLF	32.94	P	22:19:58.540	-0.4 107.2	8.95	TAS	278.7	0.89	m_e	MBB	6.5

Event 80826002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/26	02:49:16.27			-17.1900	-177.4900				33.0			14		142.83	147.14	m i ke	BGR
80826008																	

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.17		PKPbc	03:08:50.009		15.3		2.95		TAS				m_e	
BSEG	142.83		PKPbc	03:08:42.656	-0.1	15.3		2.95		TAS				m_e	
CLL	144.95		PKPbc	03:08:49.507	0.0	15.3		2.95		TAS				m_e	
CLZ	144.87		PKPbc	03:08:49.671	0.2	15.3		2.95		TAS				m_e	
FLT1	144.27		PKPbc	03:08:47.251	0.0	15.3		2.95		TAS				m_e	
GEC2	147.14		PKPbc	03:08:55.365		15.3		2.95		TAS				m_e	
KAST	145.74		PKPbc	03:08:51.596	-0.5	15.3		2.95		TAS				m_e	
MANZ	146.38		PKPbc	03:08:53.602		15.3		2.95		TAS				m_e	
NEUB	145.28		PKPbc	03:08:50.426		15.3		2.95		TAS				m_e	
PLN	145.89		PKPbc	03:08:52.097		15.3		2.95		TAS				m_e	
ROTZ	146.57		PKPbc	03:08:54.103		15.3		2.95		TAS				m_e	
RUE	143.69		PKPbc	03:08:45.628	0.2	15.3		2.95		TAS				m_e	
TANN	145.90		PKPbc	03:08:52.348		15.3		2.95		TAS				m_e	
TNS	146.70		PKPbc	03:08:54.604		15.3		2.95		TAS				m_e	

Event 80826003 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/26	05:57:22.55			45.1440	149.2310				33.0	0.9		24		75.26	80.81	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	80826009
Ms	4.7		BGR	80826009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	80.81		P	06:09:30.600		28.8		5.52		TAS		17.1	0.96	m_e mb	5.0
BRG	76.82		P	06:09:08.908	-0.3	28.8		5.52		TAS		19.0	0.97	m_e mb	5.2
BSEG	75.26		P	06:09:00.583	0.1	28.8		5.52		TAS		96.4	1.55	m_e mb	5.6
BUG	78.34		P	06:09:17.233	0.1	28.8		5.52		TAS		26.7	0.89	m_e mb	5.4
CLL	76.75		P	06:09:08.321	-0.2	28.8		5.52		TAS		81.3	0.97	m_e mb	5.8
CLZ	77.09		P	06:09:11.018	-0.2	28.8		5.52		TAS		66.3	1.17	m_e mb	5.7
FLT1	76.40		P	06:09:06.328	0.2	28.8		5.52		TAS		36.3	0.82	m_e mb	5.5
FUR	80.04		P	06:09:26.965		28.8		5.52		TAS		51.7	1.02	m_e mb	5.4
GEC2	78.65		P	06:09:19.226		28.8		5.52		TAS		34.5	1.32	m_e mb	5.2
GRA1	78.72		P	06:09:20.164	0.2	28.8		5.52		TAS		73.4	1.05	m_e mb	5.7
GRA1	78.72		L	06:49:12.085						T__		394.2	19.00	a_e Ms	4.8
GTTG	77.47		P	06:09:12.894	-0.4	28.8		5.52		TAS		42.9	1.02	m_e mb	5.5
IBBN	77.43		P	06:09:12.660	0.4	28.8		5.52		TAS		39.9	0.78	m_e mb	5.6
KAST	78.23		P	06:09:16.881	-0.1	28.8		5.52		TAS		27.1	1.00	m_e mb	5.3
MANZ	78.18		P	06:09:16.647	-0.2	28.8		5.52		TAS		5.5	0.91	m_e mb	4.7
MOX	77.76		P	06:09:14.184	0.0	28.8		5.52		TAS		21.0	0.89	m_e mb	5.3
MOX	77.76		L	06:48:34.952						T__		305.1	19.60	a_e Ms	4.6
NRDL	76.59		P	06:09:07.618	0.3	28.8		5.52		TAS		32.0	1.01	m_e mb	5.4
PLN	77.73		P	06:09:14.184	0.6	28.8		5.52		TAS		23.1	1.02	m_e mb	5.3
RETH	76.59		P	06:09:07.852	-0.2	28.8		5.52		TAS		38.5	1.00	m_e mb	5.5
RJOB	79.92		P	06:09:26.379		28.8		5.52		TAS		19.7	0.96	m_e mb	5.0
ROTZ	78.34		P	06:09:17.702	-0.6	28.8		5.52		TAS		6.6	0.96	m_e mb	4.7
STU	80.16		P	06:09:27.317		28.8		5.52		TAS		89.3	1.04	m_e mb	5.6
TANN	77.70		P	06:09:13.598	0.3	28.8		5.52		TAS		14.5	1.02	m_e mb	5.0
TNS	79.09		P	06:09:21.689	0.0	28.8		5.52		TAS		30.0	1.06	m_e mb	5.2
WET	78.67		P	06:09:19.578		28.8		5.52		TAS		46.0	1.01	m_e mb	5.5

Event 80826004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/26	07:26:10.71			-21.1820	-173.3540				33.0			29		147.18	153.42	m i ke	BGR

80826010

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	152.88		PKPbc	07:46:03.958	-0.1	8.9		2.44		TAS					m_e	
BRG	149.82		PKPbc	07:45:56.908	0.0	8.9		2.44		TAS					m_e	
BSEG	147.18		PKPbc	07:45:49.965	-0.4	8.9		2.44		TAS					m_e	
BUG	149.80		PKPbc	07:45:56.588	-0.4	8.9		2.44		TAS					m_e	
CLL	149.52		PKPbc	07:45:56.054	-0.0	8.9		2.44		TAS					m_e	
CLZ	149.26		PKPbc	07:45:55.947	0.5	8.9		2.44		TAS					m_e	
FLT1	148.71		PKPbc	07:45:54.024	-0.0	8.9		2.44		TAS					m_e	
FUR	152.82		PKPbc	07:46:04.065	-0.3	8.9		2.44		TAS					m_e	
GEC2	151.83		PKPbc	07:46:01.395	-0.4	8.9		2.44		TAS					m_e	
GOR1	148.04		PKPbc	07:45:51.674	-0.8	8.9		2.44		TAS					m_e	
GRA1	151.32		PKPbc	07:46:00.860	0.1	8.9		2.44		TAS					m_e	
GTTG	149.58		PKPbc	07:45:56.374	0.1	8.9		2.44		TAS					m_e	
IBBN	148.92		PKPbc	07:45:54.986	0.2	8.9		2.44		TAS					m_e	
KAST	150.01		PKPbc	07:45:57.229	-0.1	8.9		2.44		TAS					m_e	
MANZ	150.93		PKPbc	07:46:00.006	0.5	8.9		2.44		TAS					m_e	
MOX	150.34		PKPbc	07:45:57.763	-0.3	8.9		2.44		TAS					m_e	
NEUB	149.78		PKPbc	07:45:56.801	0.1	8.9		2.44		TAS					m_e	
NRDL	148.63		PKPbc	07:45:53.917	0.0	8.9		2.44		TAS					m_e	
PLN	150.43		PKPbc	07:45:58.831	0.6	8.9		2.44		TAS					m_e	
RETH	148.43		PKPbc	07:45:53.383	-0.1	8.9		2.44		TAS					m_e	
RJOB	153.04		PKPbc	07:46:04.385	-0.9	8.9		2.44		TAS					m_e	
ROTZ	151.14		PKPbc	07:46:00.540	0.5	8.9		2.44		TAS					m_e	
RUE	148.28		PKPbc	07:45:52.849	-0.2	8.9		2.44		TAS					m_e	
TANN	150.47		PKPbc	07:45:58.938	0.5	8.9		2.44		TAS					m_e	
TNS	150.99		PKPbc	07:46:00.220	0.5	8.9		2.44		TAS					m_e	
UBBA	150.31		PKPbc	07:45:57.976	-0.0	8.9		2.44		TAS					m_e	
UBR	153.42		PKPbc	07:46:04.706		8.9		2.44		TAS					m_e	
WET	151.66		PKPbc	07:46:01.395	-0.4	8.9		2.44		TAS					m_e	
WLF	151.58		PKPbc	07:46:01.929	0.4	8.9		2.44		TAS					m_e	

Event 80826005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/26	16:09:08.80			-22.0900	170.4600				10.0			8		144.82	147.48	m i k e	EMSC

80826037

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	145.92		PKPab	16:28:49.168		38.3		3.98		TAS					m_e	
BSEG	144.82		PKPab	16:28:45.325	0.4	38.3		3.98		TAS					m_e	

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CLL	145.97	PKPab	16:28:49.292		38.3		3.98		TAS								m_e
FLT1	145.83	PKPab	16:28:48.548	0.2	38.3		3.98		TAS								m_e
IBBN	147.02	PKPab	16:28:53.630	-0.2	38.3		3.98		TAS								m_e
PLN	146.95	PKPab	16:28:53.506		38.3		3.98		TAS								m_e
ROTZ	147.48	PKPab	16:28:55.738		38.3		3.98		TAS								m_e
TANN	146.88	PKPab	16:28:53.258		38.3		3.98		TAS								m_e

Event 80827001 Eastern Siberia, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/27	03:19:15.85			60.1400	157.6940				33.0			12		65.31	69.35	m i ke	BGR
80827007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	80827007
Ms	4.1		BGR	80827007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	65.54		P	03:29:53.592	0.2	17.4		6.37		TAS		12.4	1.02	m_e	mb	5.1
CLL	65.31		P	03:29:52.157	-0.1	17.4		6.37		TAS		34.1	0.98	m_e	mb	5.5
CLZ	65.31		P	03:29:52.929	-0.1	17.4		6.37		TAS		45.7	1.26	m_e	mb	5.6
GEC2	67.51		P	03:30:06.618		17.4		6.37		TAS		29.3	1.11	m_e	mb	5.4
GRA1	67.20		L	04:10:06.320						T__		112.2	19.70	a_e	Ms	4.1
MANZ	66.75		P	03:30:01.871		17.4		6.37		TAS		7.1	1.36	m_e	mb	4.7
MOX	66.22		P	03:29:58.339	0.3	17.4		6.37		TAS		29.0	1.29	m_e	mb	5.3
MOX	66.22		L	04:09:50.597						T__		111.7	18.60	a_e	Ms	4.1
PLN	66.26		P	03:29:58.559		17.4		6.37		TAS		54.1	1.50	m_e	mb	5.6
RJOB	68.75		P	03:30:14.677		17.4		6.37		TAS		20.9	0.94	m_e	mb	5.3
TANN	66.27		P	03:29:58.559		17.4		6.37		TAS		133.7	2.09	m_e	mb	5.8
UBBA	66.36		P	03:29:59.111	0.2	17.4		6.37		TAS		99.0	1.93	m_e	mb	5.7
UBR	69.35		P	03:30:17.768		17.4		6.37		TAS		24.6	1.12	m_e	mb	5.3
WET	67.40		P	03:30:05.956		17.4		6.37		TAS		32.6	1.10	m_e	mb	5.5

Event 80827003 Off coast of Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/27	12:09:10.02			24.5230	61.6440				30.9	0.2		8		44.53	48.40	m i ke	BGR
80827009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	80827009
Ms	3.9		BGR	80827009



Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	147.75		PKPbc	13:27:48.798	0.3	14.3		2.78		TAS					m_e	
BFO	149.83		PKPbc	13:27:53.757	-0.6	14.3		2.78		TAS					m_e	
BRG	146.47		PKPbc	13:27:45.018	0.1	14.3		2.78		TAS					m_e	
BSEG	144.08		PKPbc	13:27:37.605	-0.7	14.3		2.78		TAS					m_e	
CLL	146.24		PKPbc	13:27:44.331	0.2	14.3		2.78		TAS					m_e	
CLZ	146.13		PKPbc	13:27:44.380	0.5	14.3		2.78		TAS					m_e	
FLT1	145.53		PKPbc	13:27:41.925	-0.3	14.3		2.78		TAS					m_e	
FUR	149.57		PKPbc	13:27:53.364	-0.6	14.3		2.78		TAS					m_e	
GEC2	148.45		PKPbc	13:27:50.369	-0.5	14.3		2.78		TAS					m_e	
GOR1	144.88		PKPbc	13:27:40.256	-0.2	14.3		2.78		TAS					m_e	
GRA1	148.10		PKPbc	13:27:49.829	-0.1	14.3		2.78		TAS					m_e	
GTTG	146.47		PKPbc	13:27:45.313	0.4	14.3		2.78		TAS					m_e	
HLG	144.07		PKPbc	13:27:37.998	-0.5	14.3		2.78		TAS					m_e	
IBBN	145.95		PKPbc	13:27:43.742	0.1	14.3		2.78		TAS					m_e	
KAST	146.98		PKPbc	13:27:46.638	0.2	14.3		2.78		TAS					m_e	
MANZ	147.67		PKPbc	13:27:48.406	0.3	14.3		2.78		TAS					m_e	
MOX	147.12		PKPbc	13:27:46.736	0.2	14.3		2.78		TAS					m_e	
NEUB	146.56		PKPbc	13:27:45.264	0.1	14.3		2.78		TAS					m_e	
NRDL	145.52		PKPbc	13:27:42.269	0.0	14.3		2.78		TAS					m_e	
PLN	147.18		PKPbc	13:27:46.982	0.2	14.3		2.78		TAS					m_e	
RETH	145.37		PKPbc	13:27:41.778	-0.1	14.3		2.78		TAS					m_e	
RJOB	149.69		PKPbc	13:27:53.266		14.3		2.78		TAS					m_e	
ROTZ	147.86		PKPbc	13:27:49.044	0.5	14.3		2.78		TAS					m_e	
RUE	144.98		PKPbc	13:27:40.502	-0.2	14.3		2.78		TAS					m_e	
STU	149.29		PKPbc	13:27:52.677	-0.1	14.3		2.78		TAS					m_e	
TANN	147.19		PKPbc	13:27:47.178	0.2	14.3		2.78		TAS					m_e	
TNS	147.95		PKPbc	13:27:49.240	0.3	14.3		2.78		TAS					m_e	
UBR	150.23		PKPbc	13:27:54.689		14.3		2.78		TAS					m_e	
WET	148.33		PKPbc	13:27:49.927	-0.0	14.3		2.78		TAS					m_e	
WLF	148.69		PKPbc	13:27:51.695	-0.1	14.3		2.78		TAS					m_e	

Event 80828004 W of Rendsburg

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/28	16:59:22.95	0.50	0.92	54.3840	9.4770	16.7	7.8	62	0.0			7	174	0.34	2.60	m i km	BGR
OrigID 80828010																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	0.67		Sg	16:59:44.646	0.5					T__					m_e
BSEG	0.67		Pg	16:59:36.063	0.5					T__					m_e

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CLZ	2.60	Pn	17:00:04.879	-0.2	T__	m_e
FLT1	2.31	Pn	16:59:59.239	-1.9	T__	m_e
GOR1	1.77	Pn	16:59:53.177	-0.7	T__	m_e
NRDL	1.93	Pn	16:59:56.357	0.3	T__	m_e
RETH	1.65	Pn	16:59:53.578	1.3	T__	m_e
SKMB	0.34	Pg	16:59:29.520	0.3	T__	m_e

Event 80828005 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/28	18:55:36.66			-19.2330	-175.8770				33.0			10		145.03	151.21	m i ke	BGR
80828011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	147.48		PKPbc	19:15:17.564		13.1		2.67		TAS					m_e
BSEG	145.03		PKPbc	19:15:10.358	0.6	13.1		2.67		TAS					m_e
CLL	147.23		PKPbc	19:15:16.601		13.1		2.67		TAS					m_e
CLZ	147.09		PKPbc	19:15:17.008	-0.1	13.1		2.67		TAS					m_e
FLT1	146.50		PKPbc	19:15:14.658	-0.6	13.1		2.67		TAS					m_e
GEC2	149.46		PKPbc	19:15:22.906		13.1		2.67		TAS					m_e
PLN	148.17		PKPbc	19:15:19.555		13.1		2.67		TAS					m_e
RJOB	150.70		PKPbc	19:15:25.479		13.1		2.67		TAS					m_e
ROTZ	148.86		PKPbc	19:15:21.348		13.1		2.67		TAS					m_e
UBR	151.21		PKPbc	19:15:27.260		13.1		2.67		TAS					m_e

Event 80828006 Mariana Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/28	22:35:11.70			16.7600	146.7600				49.0			14		100.34	105.26	m i ke	EMSC
80828038																	

Magnitude Err Nsta Author OrigID  
Ms 6.1 BGR 80828012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	104.21		PP	22:53:28.520		45.7		8.31		TAS					m_e
BRG	101.00		Pdiff	22:48:55.223		43.5		4.44		TAS					m_e
BRG	101.00		PKKPbc	23:05:08.312	0.1	219.9		2.95		TAS					m_e
BSEG	100.34		Pdiff	22:48:52.196	-0.1	43.5		4.44		TAS					m_e
CLL	101.12		Pdiff	22:48:55.496		43.5		4.44		TAS					m_e
CLL	101.12		PKKPbc	23:05:07.789	-0.1	219.9		2.95		TAS					m_e

FLT1	101.14	Pdiff	22:48:55.430	-0.7	43.5	4.44	TAS	m_e										
FUR	104.15	Pdiff	22:49:09.717		43.5	4.44	TAS	m_e										
FUR	104.15	PP	22:53:26.922		45.7	8.31	TAS	m_e										
GEC2	102.53	Pdiff	22:49:01.355		43.5	4.44	TAS	m_e										
GRA1	103.07	Pdiff	22:49:03.553		43.5	4.44	TAS	m_e										
GRA1	103.07	PP	22:53:18.386		45.7	8.31	TAS	m_e										
GRA1	103.07	L	23:39:39.311				T__		6230.0	21.00	a_e	Ms					6.1	
KAST	103.15	Pdiff	22:49:04.314		43.5	4.44	TAS	m_e										
MANZ	102.46	PP	22:53:13.282		45.7	8.31	TAS	m_e										
MANZ	102.46	PKKPbc	23:05:03.931		219.9	2.95	TAS	m_e										
MOX	102.20	PP	22:53:11.322		45.7	8.31	TAS	m_e										
MOX	102.20	PKKPbc	23:05:04.987		219.9	2.95	TAS	m_e										
MOX	102.20	L	23:39:11.463				T__		7527.4	21.90	a_e	Ms					6.2	
NEUB	101.74	Pdiff	22:48:58.620		43.5	4.44	TAS	m_e										
NEUB	101.74	PKKPbc	23:05:06.435	0.1	219.9	2.95	TAS	m_e										
NRDL	101.49	PP	22:53:05.595	-0.3	45.7	8.31	TAS	m_e										
NRDL	101.49	PKKPbc	23:05:07.524	-0.1	219.9	2.95	TAS	m_e										
PLN	102.08	Pdiff	22:49:00.359		43.5	4.44	TAS	m_e										
PLN	102.08	PP	22:53:10.559		45.7	8.31	TAS	m_e										
PLN	102.08	PKKPbc	23:05:05.117	-0.3	219.9	2.95	TAS	m_e										
RETH	101.61	PKKPbc	23:05:07.289	-0.1	219.9	2.95	TAS	m_e										
RJOB	103.74	Pdiff	22:49:07.613		43.5	4.44	TAS	m_e										
RJOB	103.74	PKKPbc	23:05:00.063		219.9	2.95	TAS	m_e										
ROTZ	102.57	PP	22:53:13.613		45.7	8.31	TAS	m_e										
TANN	102.00	PKKPbc	23:05:05.657	0.2	219.9	2.95	TAS	m_e										
TNS	103.88	PKKPbc	23:05:00.262		219.9	2.95	TAS	m_e										
UBBA	102.78	PP	22:53:17.622		45.7	8.31	TAS	m_e										
UBR	105.04	PKKPbc	23:04:56.502		219.9	2.95	TAS	m_e										
WET	102.71	PKKPbc	23:05:03.004		219.9	2.95	TAS	m_e										
WLF	105.26	PKKPbc	23:04:55.999		219.9	2.95	TAS	m_e										

Event 80829001 Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	01:24:55.90			-16.2800	178.0500				10.0			9		143.21	146.94	m i ke	EMSC
80829033																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	80829007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	146.94		PKPbc	01:44:38.067		22.4		2.44		TAS				m_e		
BRG	143.21		PKPbc	01:44:29.325	-0.2	22.4		2.44		TAS				m_e		
GEC2	145.09		PKPbc	01:44:32.340		22.4		2.44		TAS				m_e		
GRA1	145.00		PKPbc	01:44:32.440		22.4		2.44		TAS				m_e		
GRA1	145.00		L	02:50:50.976						T__		558.3	21.40	a_e	Ms	5.3



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MOX	144.02	L	02:49:00.276							T__	786.4	21.70	a_e	Ms	5.4
RJOB	146.35	PKPbc	01:44:36.560	22.4	2.44					TAS			m_e		
ROTZ	144.68	PKPbc	01:44:31.234	22.4	2.44					TAS			m_e		
TANN	144.02	PKPbc	01:44:30.129	0.6	22.4	2.44				TAS			m_e		
WET	145.06	PKPbc	01:44:32.541	22.4	2.44					TAS			m_e		
WLF	146.06	PKPbc	01:44:35.957	22.4	2.44					TAS			m_e		

Event 80829002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	03:51:56.20			-21.9700	170.1700				33.0			15		144.61	149.95	m i ke	EMSC
80829034																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.8	BGR		80829008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	149.95		PKPdf	04:11:38.301		38.6		1.62		TAS				m_e		
BRG	145.69		PKPdf	04:11:31.845		38.6		1.62		TAS				m_e		
BSEG	144.61		PKPdf	04:11:28.588	-0.2	38.6		1.62		TAS				m_e		
CLL	145.75		PKPdf	04:11:31.363	0.0	38.6		1.62		TAS				m_e		
FLT1	145.61		PKPdf	04:11:31.463	-0.1	38.6		1.62		TAS				m_e		
GEC2	147.29		PKPdf	04:11:34.782		38.6		1.62		TAS				m_e		
GRA1	147.72		L	05:25:28.480						T__		14340.5	19.20	a_e	Ms	6.8
MANZ	147.13		PKPdf	04:11:33.756		38.6		1.62		TAS				m_e		
MOX	146.81		L	05:27:48.426						T__		18675.6	18.10	m_e	Ms	6.9
PLN	146.72		PKPdf	04:11:33.448		38.6		1.62		TAS				m_e		
RJOB	148.52		PKPdf	04:11:35.864		38.6		1.62		TAS				m_e		
ROTZ	147.26		PKPdf	04:11:34.291		38.6		1.62		TAS				m_e		
TANN	146.65		PKPdf	04:11:33.474		38.6		1.62		TAS				m_e		
TNS	148.35		PKPdf	04:11:36.142		38.6		1.62		TAS				m_e		
UBBA	147.29		PKPdf	04:11:33.964		38.6		1.62		TAS				m_e		
UBR	149.75		PKPdf	04:11:37.777		38.6		1.62		TAS				m_e		
WET	147.44		PKPdf	04:11:34.703		38.6		1.62		TAS				m_e		

Event 80829005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	04:03:16.52			-21.2890	172.4510				33.0			24		144.68	150.16	m i ke	BGR
80829011																	

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
BFO	150.16		PKPbc	04:23:03.693		34.4		2.79		TAS				m_e	
BRG	146.00		PKPbc	04:22:52.771	-0.1	34.4		2.79		TAS				m_e	
BSEG	144.68		PKPbc	04:22:49.099	-0.3	34.4		2.79		TAS				m_e	
BUG	147.76		PKPbc	04:22:58.326	-1.0	34.4		2.79		TAS				m_e	
CLL	146.01		PKPbc	04:22:52.583	0.2	34.4		2.79		TAS				m_e	
CLZ	146.47		PKPbc	04:22:54.654	0.2	34.4		2.79		TAS				m_e	
FLT1	145.77		PKPbc	04:22:52.206	0.1	34.4		2.79		TAS				m_e	
GEC2	147.69		PKPbc	04:22:57.761	0.0	34.4		2.79		TAS				m_e	
GOR1	145.19		PKPbc	04:22:50.700	-0.3	34.4		2.79		TAS				m_e	
GTTG	146.85		PKPbc	04:22:55.878	0.0	34.4		2.79		TAS				m_e	
IBBN	146.85		PKPbc	04:22:55.972	0.3	34.4		2.79		TAS				m_e	
KAST	147.63		PKPbc	04:22:58.138	-0.1	34.4		2.79		TAS				m_e	
MANZ	147.41		PKPbc	04:22:57.197	-0.1	34.4		2.79		TAS				m_e	
MOX	147.06		PKPbc	04:22:55.972	0.3	34.4		2.79		TAS				m_e	
NEUB	146.54		PKPbc	04:22:54.748	0.4	34.4		2.79		TAS				m_e	
NRDL	145.99		PKPbc	04:22:53.242	0.2	34.4		2.79		TAS				m_e	
PLN	146.99		PKPbc	04:22:55.972	0.2	34.4		2.79		TAS				m_e	
RETH	146.01		PKPbc	04:22:53.242	0.2	34.4		2.79		TAS				m_e	
ROTZ	147.56		PKPbc	04:22:57.667	0.1	34.4		2.79		TAS				m_e	
TANN	146.93		PKPbc	04:22:55.878	0.2	34.4		2.79		TAS				m_e	
TNS	148.48		PKPbc	04:23:00.209		34.4		2.79		TAS				m_e	
UBBA	147.47		PKPbc	04:22:57.479	0.3	34.4		2.79		TAS				m_e	
WET	147.79		PKPbc	04:22:58.232	0.1	34.4		2.79		TAS				m_e	
WLF	149.67		PKPbc	04:23:03.505		34.4		2.79		TAS				m_e	

Event 80829006 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	04:27:20.32			-20.0780	170.2250				33.0			10		142.86	145.66	m i ke	BGR
	80829012																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	144.03		PKPbc	04:46:50.271	0.1	37.0		3.10		TAS				m_e	
BSEG	142.86		PKPbc	04:46:46.645	0.2	37.0		3.10		TAS				m_e	
CLL	144.06		PKPbc	04:46:50.194	0.1	37.0		3.10		TAS				m_e	
FLT1	143.89		PKPbc	04:46:49.345	-0.1	37.0		3.10		TAS				m_e	
GEC2	145.66		PKPbc	04:46:54.900		37.0		3.10		TAS				m_e	
MANZ	145.46		PKPbc	04:46:54.669		37.0		3.10		TAS				m_e	
MOX	145.12		PKPbc	04:46:53.512		37.0		3.10		TAS				m_e	
NRDL	144.15		PKPbc	04:46:50.811	0.2	37.0		3.10		TAS				m_e	
RETH	144.18		PKPbc	04:46:50.734	-0.3	37.0		3.10		TAS				m_e	
TANN	144.98		PKPbc	04:46:53.049		37.0		3.10		TAS				m_e	

Event 80829007 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	04:48:34.90			-22.5490	172.9730				33.0				15	146.02	151.50	m i ke	BGR
OrigID 80829013																	

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
BFO	151.50		PKPbc	05:08:25.931		34.5		2.64		TAS					m_e
BRG	147.34		PKPbc	05:08:15.264		34.5		2.64		TAS					m_e
BSEG	146.02		PKPbc	05:08:11.619	0.4	34.5		2.64		TAS					m_e
CLL	147.35		PKPbc	05:08:14.997	0.2	34.5		2.64		TAS					m_e
CLZ	147.81		PKPbc	05:08:17.219	0.1	34.5		2.64		TAS					m_e
FLT1	147.12		PKPbc	05:08:14.375	-0.0	34.5		2.64		TAS					m_e
GEC2	149.03		PKPbc	05:08:19.708		34.5		2.64		TAS					m_e
GOR1	146.53		PKPbc	05:08:13.130	0.3	34.5		2.64		TAS					m_e
GTTG	148.20		PKPbc	05:08:17.308	0.0	34.5		2.64		TAS					m_e
MANZ	148.76		PKPbc	05:08:19.353		34.5		2.64		TAS					m_e
MOX	148.40		PKPbc	05:08:18.108		34.5		2.64		TAS					m_e
NRDL	147.34		PKPbc	05:08:15.708	0.6	34.5		2.64		TAS					m_e
RETH	147.35		PKPbc	05:08:15.886	-0.4	34.5		2.64		TAS					m_e
ROTZ	148.90		PKPbc	05:08:19.620		34.5		2.64		TAS					m_e
TANN	148.28		PKPbc	05:08:17.753		34.5		2.64		TAS					m_e

Event 80829010 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	13:28:04.87			-20.0610	170.5430				33.0				11	142.95	146.15	m i ke	BGR
OrigID 80829016																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.5		BGR	80829016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	144.14		PKPbc	13:47:35.353		36.5		3.05		TAS					m_e
BSEG	142.95		PKPbc	13:47:31.583	-0.1	36.5		3.05		TAS					m_e
CLL	144.17		PKPbc	13:47:34.967	0.3	36.5		3.05		TAS					m_e
CLZ	144.69		PKPbc	13:47:37.287	0.1	36.5		3.05		TAS					m_e
FLT1	143.99		PKPbc	13:47:34.483	0.4	36.5		3.05		TAS					m_e
GEC2	145.79		PKPbc	13:47:39.993		36.5		3.05		TAS					m_e
GOR1	143.42		PKPbc	13:47:33.227	0.2	36.5		3.05		TAS					m_e
GRA1	146.15		L	14:46:55.427						T__		99.1	21.40	a_e Ms	4.6

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GTTG	145.08	PKPbc	13:47:38.157	-0.2	36.5	3.05	TAS										m_e
MOX	145.23	L	14:55:15.108				T__					61.9	20.90	a_e	Ms		4.4
NRDL	144.24	PKPbc	13:47:35.353	-0.2	36.5	3.05	TAS										m_e
PLN	145.15	PKPbc	13:47:38.253		36.5	3.05	TAS										m_e
RETH	144.27	PKPbc	13:47:35.547	-0.2	36.5	3.05	TAS										m_e

Event 80829011 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	15:41:22.00			-20.6260	168.9840				33.0			8		143.95	145.59	m i ke	BGR
	80829017																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	144.00		PKPbc	16:00:51.885		39.3		3.21		TAS					m_e
CLL	144.06		PKPbc	16:00:51.791		39.3		3.21		TAS					m_e
CLZ	144.66		PKPbc	16:00:54.056	0.0	39.3		3.21		TAS					m_e
FLT1	143.95		PKPbc	16:00:51.036	0.3	39.3		3.21		TAS					m_e
GEC2	145.59		PKPbc	16:00:56.510		39.3		3.21		TAS					m_e
GTTG	145.05		PKPbc	16:00:55.283	-0.3	39.3		3.21		TAS					m_e
NRDL	144.23		PKPbc	16:00:52.263	0.2	39.3		3.21		TAS					m_e
PLN	145.03		PKPbc	16:00:54.906		39.3		3.21		TAS					m_e

Event 80829012 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	15:57:00.44			-20.6650	170.7690				33.0			10		144.63	146.42	m i ke	BGR
	80829018																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	144.77		PKPbc	16:16:32.859		36.6		2.95		TAS					m_e
CLL	144.81		PKPbc	16:16:32.706		36.6		2.95		TAS					m_e
FLT1	144.63		PKPbc	16:16:32.244	-0.0	36.6		2.95		TAS					m_e
GEC2	146.42		PKPbc	16:16:37.393		36.6		2.95		TAS					m_e
MANZ	146.20		PKPbc	16:16:37.086		36.6		2.95		TAS					m_e
NRDL	144.87		PKPbc	16:16:33.244	0.2	36.6		2.95		TAS					m_e
PLN	145.78		PKPbc	16:16:35.856		36.6		2.95		TAS					m_e
RETH	144.91		PKPbc	16:16:33.244	0.1	36.6		2.95		TAS					m_e
ROTZ	146.33		PKPbc	16:16:37.316		36.6		2.95		TAS					m_e
TANN	145.72		PKPbc	16:16:35.703		36.6		2.95		TAS					m_e

## Event 80829013 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	19:37:07.35			-19.5030	-175.7770				33.0				11	145.31	151.49	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
BFO	151.05		PKPbc	19:56:57.947		13.0		2.64		TAS					m_e
BRG	147.76		PKPbc	19:56:49.056		13.0		2.64		TAS					m_e
BSEG	145.31		PKPbc	19:56:41.891	-0.1	13.0		2.64		TAS					m_e
CLL	147.51		PKPbc	19:56:48.323		13.0		2.64		TAS					m_e
CLZ	147.37		PKPbc	19:56:48.595	-0.5	13.0		2.64		TAS					m_e
GEC2	149.75		PKPbc	19:56:54.338		13.0		2.64		TAS					m_e
MANZ	148.94		PKPbc	19:56:52.403		13.0		2.64		TAS					m_e
RJOB	150.99		PKPbc	19:56:57.110		13.0		2.64		TAS					m_e
ROTZ	149.14		PKPbc	19:56:53.030		13.0		2.64		TAS					m_e
TANN	148.47		PKPbc	19:56:51.305		13.0		2.64		TAS					m_e
UBR	151.49		PKPbc	19:56:58.522		13.0		2.64		TAS					m_e

## Event 80829015 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	20:51:00.63			-20.6320	171.5200				33.0				16	143.78	148.78	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	145.04		PKPbc	21:10:33.850	0.1	35.4		2.91		TAS					m_e
BSEG	143.78		PKPbc	21:10:30.264	-0.2	35.4		2.91		TAS					m_e
CLL	145.06		PKPbc	21:10:33.836	-0.0	35.4		2.91		TAS					m_e
FLT1	144.85		PKPbc	21:10:33.014	0.3	35.4		2.91		TAS					m_e
GEC2	146.71		PKPbc	21:10:38.513		35.4		2.91		TAS					m_e
GOR1	144.28		PKPbc	21:10:31.814	0.1	35.4		2.91		TAS					m_e
GTTG	145.94		PKPbc	21:10:36.847	-0.1	35.4		2.91		TAS					m_e
IBBN	145.96		PKPbc	21:10:37.048	-0.4	35.4		2.91		TAS					m_e
MANZ	146.46		PKPbc	21:10:38.128		35.4		2.91		TAS					m_e
MOX	146.12		PKPbc	21:10:36.975	0.1	35.4		2.91		TAS					m_e
NRDL	145.08		PKPbc	21:10:34.474	0.1	35.4		2.91		TAS					m_e
PLN	146.04		PKPbc	21:10:36.920	-0.2	35.4		2.91		TAS					m_e

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ROTZ	146.60	PKPbc	21:10:38.536	35.4	2.91	TAS	m_e
TANN	145.98	PKPbc	21:10:36.719	0.2 35.4	2.91	TAS	m_e
WET	146.83	PKPbc	21:10:39.288	35.4	2.91	TAS	m_e
WLF	148.78	PKPbc	21:10:44.794	35.4	2.91	TAS	m_e

Event 80829016 Costa Rica

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	21:33:41.33			8.6980	-83.4760				18.7	2.0		15		83.20	88.21	m i ke	BGR
80829022																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	80829022

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	83.71		P	21:46:08.464		279.2		4.90		TAS		30.7	1.36	m_e mb	5.3
BRG	87.97		P	21:46:29.952		279.2		4.90		TAS		77.8	1.93	m_e mb	5.7
CLL	87.31		P	21:46:26.444	0.1	279.2		4.90		TAS		57.2	1.74	m_e mb	5.4
CLZ	85.60		P	21:46:18.441	-0.5	279.2		4.90		TAS		49.0	1.55	m_e mb	5.4
FLT1	86.06		P	21:46:19.866	0.4	279.2		4.90		TAS		66.0	1.79	m_e mb	5.5
GEC2	88.21		P	21:46:30.610		279.2		4.90		TAS		48.7	1.77	m_e mb	5.5
GEC2	88.21		pP	21:46:36.646						T__				m_e	
MOX	86.56		P	21:46:23.374		279.2		4.90		TAS		30.2	1.57	m_e mb	5.2
MOX	86.56		pP	21:46:28.221						T__				m_e	
NEUB	86.57		P	21:46:22.826	-0.5	279.2		4.90		TAS				m_e	
NRDL	85.35		P	21:46:17.344	-0.2	279.2		4.90		TAS		43.3	1.50	m_e mb	5.5
RETH	84.86		P	21:46:14.713	-0.2	279.2		4.90		TAS		60.4	1.59	m_e mb	5.6
ROTZ	87.08		pP	21:46:31.217						T__				m_e	
TANN	87.13		P	21:46:26.005		279.2		4.90		TAS		59.3	1.64	m_e mb	5.5
TNS	84.62		P	21:46:13.617		279.2		4.90		TAS		43.9	1.61	m_e mb	5.4
UBBA	85.52		P	21:46:17.893		279.2		4.90		TAS		48.8	1.96	m_e mb	5.3
WET	87.62		P	21:46:28.527		279.2		4.90		TAS		120.1	1.97	m_e mb	5.9
WLF	83.20		P	21:46:06.601		279.2		4.90		TAS		75.8	1.97	m_e mb	5.6

Event 80829017 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/29	23:26:35.92			-20.3130	169.6850				33.0				9	143.92	145.63	m i ke	BGR
80829023																	

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
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BRG	144.01	PKPbc	23:46:05.994	38.0	3.08	TAS	m_e
CLL	144.06	PKPbc	23:46:05.826	38.0	3.08	TAS	m_e
CLZ	144.63	PKPbc	23:46:07.919	38.0	3.08	TAS	m_e
FLT1	143.92	PKPbc	23:46:05.408	-0.3 38.0	3.08	TAS	m_e
GEC2	145.63	PKPbc	23:46:10.598	38.0	3.08	TAS	m_e
GTTG	145.01	PKPbc	23:46:09.091	38.0	3.08	TAS	m_e
NRDL	144.18	PKPbc	23:46:06.245	0.2 38.0	3.08	TAS	m_e
ROTZ	145.58	PKPbc	23:46:10.598	38.0	3.08	TAS	m_e
TANN	144.97	PKPbc	23:46:09.091	38.0	3.08	TAS	m_e

Event 80830001 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/30	03:33:02.80			44.0500	16.5800				10.0					4.54	9.69	m i ke	EMSC
80830033																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.6		BGR	80830007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	9.15		Pn	03:35:17.715						T__					m_e	
BFO	7.15		Pn	03:34:49.227						T__					m_e	
BRG	7.06		Pn	03:34:47.680						T__					m_e	
BUG	9.69		Pn	03:35:26.134						T__					m_e	
CLL	7.65		Pn	03:34:55.673						T__					m_e	
FUR	5.52		Pn	03:34:28.345						T__				m_e	ML	4.9
GEC2	5.19		Pn	03:34:22.517						T__				m_e	ML	4.5
MANZ	6.68		Pn	03:34:42.243						T__					m_e	
MOX	7.41		Pn	03:34:52.268						T__					m_e	
NEUB	7.85		Pn	03:35:00.152						T__					m_e	
RJOB	4.54		Pn	03:34:14.962						T__				m_e	ML	4.4
ROTZ	6.45		Pn	03:34:39.151						T__					m_e	
STU	6.95		Pn	03:34:45.251						T__					m_e	
TANN	6.96		Pn	03:34:46.595						T__					m_e	
TNS	8.29		Pn	03:35:05.874						T__					m_e	
UBBA	8.11		Pn	03:35:04.704						T__					m_e	
UBR	5.80		Pn	03:34:31.789						T__				m_e	ML	5.0
WET	5.70		Pn	03:34:28.867						T__				m_e	ML	4.4
WLF	9.08		Pn	03:35:17.800						T__					m_e	

Event 80830007 Vanuatu Islands

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

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2018/08/30 16:24:55.83 -20.5780 169.0920 33.0 9 143.95 146.03 m i ke BGR  
80830013

Magnitude Err Nsta Author OrigID  
Ms 5.1 BGR 80830013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	144.00		PKPbc	16:44:25.590		39.1		3.11		TAS				m_e	
CLL	144.06		PKPbc	16:44:25.374		39.1		3.11		TAS				m_e	
CLZ	144.66		PKPbc	16:44:27.647		39.1		3.11		TAS				m_e	
FLT1	143.95		PKPbc	16:44:25.049	-0.1	39.1		3.11		TAS				m_e	
GEC2	145.59		PKPbc	16:44:30.354		39.1		3.11		TAS				m_e	
GRA1	146.03		L	17:51:17.160						T__		333.1	21.00	a_e Ms	5.1
MOX	145.13		L	17:50:37.749						T__		297.8	21.30	a_e Ms	5.0
NRDL	144.22		PKPbc	16:44:26.240	0.1	39.1		3.11		TAS				m_e	
ROTZ	145.57		PKPbc	16:44:30.353		39.1		3.11		TAS				m_e	
TANN	144.97		PKPbc	16:44:28.513		39.1		3.11		TAS				m_e	
WET	145.75		PKPbc	16:44:30.678		39.1		3.11		TAS				m_e	

Event 80831001 Vanuatu Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2018/08/31 04:26:35.74 -20.7170 169.3620 33.0 28 144.17 148.51 m i ke BGR  
80831007

Magnitude Err Nsta Author OrigID  
Ms 4.5 BGR 80831007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.12		PKPbc	04:46:14.713	-0.6	38.8		3.03		TAS				a_e	
BFO	148.51		PKPbc	04:46:18.058		38.8		3.03		TAS				m_e	
BRG	144.24		PKPbc	04:46:05.313	0.2	38.8		3.03		TAS				m_e	
BUG	146.28		PKPbc	04:46:12.307	0.0	38.8		3.03		TAS				m_e	
CLL	144.30		PKPbc	04:46:05.434	0.2	38.8		3.03		TAS				m_e	
CLZ	144.88		PKPbc	04:46:08.013	-0.1	38.8		3.03		TAS				a_e	
FLT1	144.17		PKPbc	04:46:04.967	0.1	38.8		3.03		TAS				m_e	
FUR	147.43		PKPbc	04:46:15.470		38.8		3.03		TAS				m_e	
GEC2	145.84		PKPbc	04:46:10.663	0.0	38.8		3.03		TAS				m_e	
GRA1	146.27		PKPbc	04:46:12.287	0.1	38.8		3.03		TAS				m_e	
GRA1	146.27		L	06:03:00.148						T__		85.4	18.80	a_e Ms	4.5
GTTG	145.27		PKPbc	04:46:09.379	0.6	38.8		3.03		TAS				m_e	
IBBN	145.38		PKPbc	04:46:09.554	0.4	38.8		3.03		TAS				m_e	
KAST	146.10		PKPbc	04:46:11.666	0.0	38.8		3.03		TAS				m_e	
MANZ	145.68		PKPbc	04:46:10.513	0.1	38.8		3.03		TAS				a_e	
MOX	145.37		PKPbc	04:46:09.213	0.2	38.8		3.03		TAS				a_e	
MOX	145.37		L	06:08:14.885						T__		80.0	18.70	a_e Ms	4.5



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NEUB	144.87	PKPbc	04:46:07.737	0.1	38.8	3.03	TAS	m_e
NRDL	144.44	PKPbc	04:46:06.322	0.4	38.8	3.03	TAS	m_e
PLN	145.27	PKPbc	04:46:09.013	-0.0	38.8	3.03	TAS	a_e
RETH	144.50	PKPbc	04:46:06.363	0.2	38.8	3.03	TAS	a_e
RJOB	147.06	PKPbc	04:46:14.077	-0.6	38.8	3.03	TAS	m_e
ROTZ	145.80	PKPbc	04:46:11.013	0.4	38.8	3.03	TAS	a_e
STU	147.81	PKPbc	04:46:16.573		38.8	3.03	TAS	m_e
TANN	145.20	PKPbc	04:46:08.813	0.4	38.8	3.03	TAS	a_e
TNS	146.91	PKPbc	04:46:14.113	0.2	38.8	3.03	TAS	a_e
UBBA	145.85	PKPbc	04:46:10.832	0.2	38.8	3.03	TAS	m_e
UBR	148.30	PKPbc	04:46:17.427		38.8	3.03	TAS	m_e
WET	145.99	PKPbc	04:46:11.463	-0.4	38.8	3.03	TAS	a_e
WLF	148.18	PKPbc	04:46:18.091		38.8	3.03	TAS	m_e

Event 80831002 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/31	07:12:24.68	0.66	1.16	38.7900	21.0180	32.2	10.0	58	10.0			18	340	9.36	14.50	m i ke	BGR
80831008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	9.36		Sn	07:16:18.132	-1.0					T__					m_e
ARSA	9.36		Pn	07:14:37.097	-1.1					T__					m_e
BFO	13.23		Pn	07:15:30.032	-0.5					T__					m_e
BRG	13.07		Pn	07:15:26.833	-1.5					T__					m_e
FUR	11.73		Sn	07:17:15.465	0.1					T__					m_e
FUR	11.73		Pn	07:15:12.569	2.3					T__					m_e
GEC2	11.35		Sn	07:17:08.121	1.8					T__					m_e
GEC2	11.35		Pn	07:15:04.087	-1.0					T__					m_e
GRA1	12.95		Sn	07:17:43.909	-0.4					T__					m_e
GRA1	12.95		Pn	07:15:26.889	0.2					T__					m_e
KBA	10.01		Sn	07:16:33.016	-1.5					T__					m_e
KBA	10.01		Pn	07:14:46.874	-0.1					T__					m_e
MANZ	12.87		Sn	07:17:43.948	1.6					T__					m_e
MANZ	12.87		Pn	07:15:25.983	0.4					T__					m_e
MOA	10.30		Sn	07:16:42.401	1.0					T__					m_e
MOA	10.30		Pn	07:14:50.179	-0.7					T__					m_e
MOX	13.59		Pn	07:15:35.813	0.5					T__					m_e
RJOB	10.76		Sn	07:16:53.232	0.9					T__					m_e
RJOB	10.76		Pn	07:14:58.053	0.9					T__					m_e
ROTZ	12.65		Pn	07:15:23.151	0.5					T__					m_e
STU	13.12		Sn	07:17:47.413	-0.9					T__					m_e
STU	13.12		Pn	07:15:29.011	0.0					T__					m_e
TANN	13.11		Sn	07:17:49.118	1.0					T__					m_e

TANN	13.11	Pn	07:15:28.455	-0.4	T__	m_e
TNS	14.50	Sn	07:18:18.014	-3.2	T__	m_e
TNS	14.50	Pn	07:15:47.478	-0.2	T__	m_e
UBR	11.92	Sn	07:17:20.578	0.8	T__	m_e
UBR	11.92	Pn	07:15:13.753	1.0	T__	m_e
WET	11.89	Pn	07:15:10.734	-1.6	T__	m_e
WTTA	10.90	Sn	07:16:55.324	-0.2	T__	m_e
WTTA	10.90	Pn	07:15:00.353	1.4	T__	m_e

Event 80831006 Luzon, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/31	14:40:19.14			14.2660	120.7650				33.0			22		89.33	94.37	m i ke	BGR
	80831012																

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	80831012
MBB	5.7		BGR	80831012
Ms	4.5		BGR	80831012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	93.44		P	14:53:31.193		66.0		4.63		TAS				m_e	
BFO	93.70		P	14:53:31.979		66.0		4.63		TAS				m_e	
BRG	89.33		P	14:53:11.877	-0.2	66.0		4.63		TAS		30.9	1.61	m_e	MBB 5.8
BSEG	90.16		P	14:53:15.700	-0.1	66.0		4.63		TAS		18.3	1.29	m_e	MBB 5.7
BUG	92.92		P	14:53:28.122		66.0		4.63		TAS		84.4	2.35	m_e	MBB 5.8
CLL	89.72		P	14:53:13.310	0.2	66.0		4.63		TAS		33.0	1.70	m_e	MBB 5.7
CLL	89.72		PP	14:56:46.688						T__				m_e	
CLZ	91.01		P	14:53:20.224	0.2	66.0		4.63		TAS		63.0	1.91	m_e	MBB 5.8
GEC2	90.24		P	14:53:16.430	0.2	66.0		4.63		TAS		34.3	1.64	m_e	MBB 5.6
GRA1	91.40		S	15:04:42.279						T__				m_e	
GRA1	91.40		L	15:39:36.599						T__		190.1	22.00	a_e	Ms 4.5
GTTG	91.36		P	14:53:21.573	-0.3	66.0		4.63		TAS		47.6	1.70	m_e	MBB 5.9
KAST	92.38		P	14:53:26.284		66.0		4.63		TAS		147.4	3.15	m_e	MBB 5.8
MANZ	90.76		P	14:53:18.932	-0.1	66.0		4.63		TAS		31.2	2.76	m_e	MBB 5.2
MANZ	90.76		PP	14:56:57.090						T__				m_e	
MOX	90.78		S	15:04:39.608						T__				m_e	
MOX	90.78		P	14:53:18.791	0.1	66.0		4.63		TAS		54.4	2.06	m_e	MBB 5.8
MOX	90.78		PP	14:56:57.009						T__				m_e	
MOX	90.78		L	15:40:46.643						T__		209.4	19.20	a_e	Ms 4.6
NRDL	90.88		P	14:53:19.530	0.1	66.0		4.63		TAS		99.9	2.69	m_e	MBB 5.6
NRDL	90.88		PP	14:57:01.472						T__				m_e	
PLN	90.53		P	14:53:17.526	0.3	66.0		4.63		TAS		25.3	1.64	m_e	MBB 5.7
RJOB	91.22		P	14:53:20.734	-0.3	66.0		4.63		TAS		14.4	1.43	m_e	MBB 5.7
ROTZ	90.78		P	14:53:19.173	-0.3	66.0		4.63		TAS		12.5	1.88	m_e	MBB 5.1
TANN	90.38		P	14:53:16.863	0.0	66.0		4.63		TAS		21.6	1.67	m_e	MBB 5.6

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TNS	92.80	P	14:53:28.371	66.0	4.63	TAS	29.2	1.80	m_e	MBB	5.8	
UBBA	91.65	P	14:53:22.501	66.0	4.63	TAS	29.0	1.72	m_e	MBB	5.7	
UBR	92.90	P	14:53:28.301	66.0	4.63	TAS	37.6	1.70	m_e	MBB	5.8	
WET	90.62	P	14:53:18.291	0.4	66.0	4.63	TAS	68.0	2.26	m_e	MBB	5.8
WLF	94.37	P	14:53:35.783	66.0	4.63	TAS	46.5	1.70	m_e	MBB	5.8	

Event 80831008 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/31	17:19:05.40			-22.1900	170.1100				40.0			19		144.80	150.13	m i ke	EMSC
OrigID																	
80831040																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.13		PKPab	17:38:57.882		38.4		3.95		TAS				m_e	
BRG	145.86		PKPab	17:38:41.563	-0.5	38.4		3.95		TAS				m_e	
BSEG	144.80		PKPab	17:38:37.763	-0.3	38.4		3.95		TAS				m_e	
CLL	145.92		PKPab	17:38:41.568	-0.4	38.4		3.95		TAS				m_e	
CLZ	146.50		PKPab	17:38:43.578	0.2	38.4		3.95		TAS				m_e	
FLT1	145.79		PKPab	17:38:40.920	-0.3	38.4		3.95		TAS				m_e	
GOR1	145.24		PKPab	17:38:39.635	0.1	38.4		3.95		TAS				m_e	
GRA1	147.89		PKPab	17:38:50.059		38.4		3.95		TAS				m_e	
GTTG	146.89		PKPab	17:38:45.725	-0.2	38.4		3.95		TAS				m_e	
IBBN	147.00		PKPab	17:38:45.875	0.0	38.4		3.95		TAS				m_e	
MOX	146.99		PKPab	17:38:46.031	1.1	38.4		3.95		TAS				m_e	
NEUB	146.50		PKPab	17:38:43.381	0.3	38.4		3.95		TAS				m_e	
NRDL	146.06		PKPab	17:38:42.079	-0.6	38.4		3.95		TAS				m_e	
PLN	146.89		PKPab	17:38:45.804	0.7	38.4		3.95		TAS				m_e	
RJOB	148.68		PKPab	17:38:52.829		38.4		3.95		TAS				m_e	
ROTZ	147.43		PKPab	17:38:47.369	-0.4	38.4		3.95		TAS				m_e	
STU	149.44		PKPab	17:38:55.299		38.4		3.95		TAS				m_e	
TANN	146.82		PKPab	17:38:44.599	-0.5	38.4		3.95		TAS				m_e	
TNS	148.53		PKPab	17:38:53.128		38.4		3.95		TAS				m_e	

Event 80831009 Iraq

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/08/31	21:06:10.79			35.6050	42.8820				33.0			22		25.16	30.12	m i ke	BGR
OrigID																	
80831015																	

Magnitude Err Nsta Author OrigID

mb	4.7		BGR	80831015
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Ms 3.6 BGR 80831015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	29.78		P	21:12:14.515	1.2	109.5		8.99		TAS		12.7	1.02	m_e mb	4.7
BFO	28.41		P	21:12:03.062		109.5		8.99		TAS		5.6	1.13	m_e mb	4.3
BRG	25.81		P	21:11:38.012	-0.1	109.5		8.99		TAS		21.4	1.54	m_e mb	4.5
BSEG	29.13		P	21:12:07.382	0.6	109.5		8.99		TAS		35.6	1.14	m_e mb	5.1
BUG	29.92		P	21:12:15.497	-0.2	109.5		8.99		TAS		13.5	1.15	m_e mb	4.7
CLL	26.53		P	21:11:44.425	-0.4	109.5		8.99		TAS		20.6	1.36	m_e mb	4.7
CLZ	28.25		P	21:12:00.047	-0.3	109.5		8.99		TAS		11.2	0.74	m_e mb	4.8
FLT1	27.95		P	21:11:58.287		109.5		8.99		TAS		16.7	0.93	m_e mb	4.9
FUR	26.47		P	21:11:45.044		109.5		8.99		TAS		32.8	0.83	m_e mb	5.0
GEC2	25.16		P	21:11:32.968		109.5		8.99		TAS		2.2	0.69	m_e mb	4.0
GOR1	28.19		P	21:11:59.651	0.3	109.5		8.99		TAS		61.3	1.00	m_e mb	5.4
GRA1	26.98		P	21:11:49.373		109.5		8.99		TAS		50.2	1.42	m_e mb	5.0
GRA1	26.98		L	21:27:25.773						T__		168.8	19.10	a_e Ms	3.6
IBBN	29.92		P	21:12:15.563	-0.4	109.5		8.99		TAS		107.4	1.63	m_e mb	5.4
KAST	29.17		P	21:12:08.813	-0.2	109.5		8.99		TAS		8.6	0.95	m_e mb	4.6
MANZ	26.54		P	21:11:45.152		109.5		8.99		TAS		1.7	1.13	m_e mb	3.7
MOX	27.07		L	21:24:27.261						T__		175.6	20.50	a_e Ms	3.6
NRDL	28.65		P	21:12:04.058	0.0	109.5		8.99		TAS		36.7	1.52	m_e mb	5.0
RETH	29.16		P	21:12:08.854	0.2	109.5		8.99		TAS		71.4	1.26	m_e mb	5.3
ROTZ	26.40		P	21:11:44.160		109.5		8.99		TAS		2.3	0.78	m_e mb	3.9
RUE	26.61		P	21:11:44.921	-0.4	109.5		8.99		TAS		48.4	1.12	m_e mb	5.1
UBR	27.10		P	21:11:50.401		109.5		8.99		TAS		31.0	1.28	m_e mb	4.9
WET	25.77		P	21:11:37.969		109.5		8.99		TAS		8.3	1.06	m_e mb	4.3
WLF	30.12		P	21:12:16.530		109.5		8.99		TAS		21.4	1.11	m_e mb	4.9