

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

(produced by SZO/BGR - HANNOVER)

May 2019 UPDATED 23.February 2021

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

Event 90501001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/01	00:41:01.31			-20.8530	-175.7110				200.7	1.3		22		146.65	152.83	m i ke	BGR
OrigID 90501007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.39		PKPbc	01:00:53.673		13.3		2.50		TAS					m_e
BRG	149.09		PKPbc	01:00:45.823	0.1	13.3		2.50		TAS					m_e
BSEG	146.65		PKPbc	01:00:39.232	-0.1	13.3		2.50		TAS					m_e
CLL	148.85		PKPbc	01:00:44.875	0.2	13.3		2.50		TAS					m_e
CLZ	148.71		PKPbc	01:00:44.839	0.2	13.3		2.50		TAS					m_e
FLT1	148.12		PKPbc	01:00:42.982	0.2	13.3		2.50		TAS					m_e
FLT1	148.12		pPKPbc	01:01:34.269	-0.7					T__					m_e
FUR	152.18		PKPbc	01:00:53.339		13.3		2.50		TAS					m_e
GEC2	151.07		PKPbc	01:00:50.696		13.3		2.50		TAS					m_e
GEC2	151.07		pPKPbc	01:01:42.295	-0.7					T__					m_e
GRA1	150.70		PKPbc	01:00:49.927		13.3		2.50		TAS					m_e
GRA1	150.70		pPKPbc	01:01:41.659	-0.7					T__					m_e
KAST	149.54		PKPbc	01:00:46.625	0.4	13.3		2.50		TAS					m_e
MANZ	150.27		PKPbc	01:00:48.841		13.3		2.50		TAS					m_e
MANZ	150.27		pPKPbc	01:01:40.356	-0.7					T__					m_e
MOX	149.71		PKPbc	01:00:47.465	-0.4	13.3		2.50		TAS					m_e
NRDL	148.10		PKPbc	01:00:43.112	-0.2	13.3		2.50		TAS					m_e
NRDL	148.10		pPKPbc	01:01:34.891	-0.7					T__					m_e
PLN	149.78		PKPbc	01:00:47.767	-0.1	13.3		2.50		TAS					m_e
RETH	147.93		PKPbc	01:00:43.053	0.1	13.3		2.50		TAS					m_e
RJOB	152.31		PKPbc	01:00:53.446		13.3		2.50		TAS					m_e
ROTZ	150.47		PKPbc	01:00:49.339		13.3		2.50		TAS					m_e

ROTZ	150.47	pPKPbc	01:01:41.025	-0.7						T__						m_e
TANN	149.80	PKPbc	01:00:47.696	-0.4	13.3		2.50			TAS						m_e
TNS	150.51	PKPbc	01:00:49.589	-0.3	13.3		2.50			TAS						m_e
UBR	152.83	PKPbc	01:00:54.708		13.3		2.50			TAS						m_e
WET	150.95	PKPbc	01:00:50.517		13.3		2.50			TAS						m_e
WLF	151.21	PKPbc	01:00:51.803		13.3		2.50			TAS						m_e

Event 90501002 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/01	15:32:30.29			-16.2870	-172.0530				10.0			23		144.48	148.65	m i ke	BGR
OrigID 90501008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.4		BGR	90501008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.04		PKPbc	15:52:09.918		5.7		2.99		TAS					m_e
BRG	145.16		PKPbc	15:52:01.531	0.1	5.7		2.99		TAS					m_e
BUG	144.93		PKPbc	15:52:00.412	0.2	5.7		2.99		TAS					m_e
CLL	144.83		PKPbc	15:51:59.847	0.1	5.7		2.99		TAS					m_e
CLZ	144.48		PKPbc	15:51:59.288	0.1	5.7		2.99		TAS					m_e
FUR	148.09		PKPbc	15:52:10.199		5.7		2.99		TAS					m_e
GEC2	147.19		PKPbc	15:52:07.402		5.7		2.99		TAS					m_e
GRA1	146.58		PKPbc	15:52:07.602		5.7		2.99		TAS					m_e
GRA1	146.58		L	17:01:33.643						T__		60.7	18.70	a_e Ms	4.4
GTTG	144.79		PKPbc	15:52:00.233	-0.1	5.7		2.99		TAS					m_e
KAST	145.17		PKPbc	15:52:01.602	0.4	5.7		2.99		TAS					m_e
MANZ	146.22		PKPbc	15:52:04.767	-0.5	5.7		2.99		TAS					m_e
MOX	145.60		PKPbc	15:52:02.900	0.1	5.7		2.99		TAS					m_e
MOX	145.60		L	17:01:47.390						T__		54.3	19.40	a_e Ms	4.3
NEUB	145.04		PKPbc	15:52:00.939	1.9	5.7		2.99		TAS					m_e
PLN	145.72		PKPbc	15:52:03.216	-0.2	5.7		2.99		TAS					m_e
RJOB	148.38		PKPbc	15:52:10.633		5.7		2.99		TAS					m_e
ROTZ	146.43		PKPbc	15:52:05.443		5.7		2.99		TAS					m_e
STU	147.59		PKPbc	15:52:08.807		5.7		2.99		TAS					m_e
TANN	145.76		PKPbc	15:52:03.398	0.0	5.7		2.99		TAS					m_e
TNS	146.15		PKPbc	15:52:04.409	-0.5	5.7		2.99		TAS					m_e
UBBA	145.51		PKPbc	15:52:02.549	-0.2	5.7		2.99		TAS					m_e
UBR	148.65		PKPbc	15:52:11.357		5.7		2.99		TAS					m_e
WET	146.98		PKPbc	15:52:07.006		5.7		2.99		TAS					m_e
WLF	146.68		PKPbc	15:52:06.770		5.7		2.99		TAS					m_e

Event 90502001 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/02	01:38:12.83			55.2770	164.9620				33.0			16		69.17	75.26	m i ke	BGR
OrigID 90502007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90502007
Ms	3.6		BGR	90502007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.92		P	01:49:47.946		15.3		5.94		TAS		8.6	1.03	m_e	mb 4.7
BRG	71.50		P	01:49:27.689		15.3		5.94		TAS		4.7	0.80	m_e	mb 4.7
BSEG	69.17		P	01:49:14.266	0.3	15.3		5.94		TAS		7.9	0.76	m_e	mb 5.0
CLL	71.25		P	01:49:26.199	-0.5	15.3		5.94		TAS		12.2	1.11	m_e	mb 4.9
CLZ	71.18		P	01:49:26.572	0.5	15.3		5.94		TAS		10.9	0.93	m_e	mb 5.0
GEC2	73.49		P	01:49:39.762		15.3		5.94		TAS		7.4	0.96	m_e	mb 4.8
GRA1	73.12		P	01:49:38.273		15.3		5.94		TAS		10.4	0.79	m_e	mb 5.0
GRA1	73.12		L	02:26:08.499						T__		24.4	20.30	a_e	Ms 3.5
IBBN	71.13		P	01:49:25.963	0.1	15.3		5.94		TAS		10.2	0.68	m_e	mb 5.1
MANZ	72.68		P	01:49:34.962		15.3		5.94		TAS		1.3	0.93	m_e	mb 4.1
MOX	72.13		P	01:49:31.911		15.3		5.94		TAS		11.3	1.05	m_e	mb 4.9
MOX	72.13		L	02:23:53.140						T__		38.2	18.50	a_e	Ms 3.7
PLN	72.19		P	01:49:32.380		15.3		5.94		TAS		5.8	1.45	m_e	mb 4.5
RJOB	74.72		P	01:49:47.680		15.3		5.94		TAS		12.6	0.77	m_e	mb 5.0
ROTZ	72.88		P	01:49:36.511		15.3		5.94		TAS		1.4	0.78	m_e	mb 4.1
TANN	72.21		P	01:49:32.483		15.3		5.94		TAS		3.9	0.77	m_e	mb 4.6
UBR	75.26		P	01:49:50.234		15.3		5.94		TAS		9.8	0.96	m_e	mb 4.8
WET	73.35		P	01:49:39.593		15.3		5.94		TAS		9.2	0.97	m_e	mb 4.9

Event 90503001 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/03	03:42:40.80			-30.0800	-177.8900				10.0			12		156.77	161.16	m i ke	EMSC
OrigID 90503033																	

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	161.16		PKPab	04:03:25.218		22.8		4.18		TAS				m_e	
BRG	157.42		PKPab	04:03:08.996		22.8		4.18		TAS				m_e	
CLL	157.29		PKPab	04:03:08.425		22.8		4.18		TAS				m_e	
FLT1	156.77		PKPab	04:03:06.203	0.3	22.8		4.18		TAS				m_e	
GTTG	157.77		PKPab	04:03:10.532	-0.8	22.8		4.18		TAS				m_e	
IBBN	157.40		PKPab	04:03:09.535		22.8		4.18		TAS				m_e	
MOX	158.25		PKPab	04:03:12.609		22.8		4.18		TAS				m_e	

RJOB	160.54	PKPab	04:03:21.505	22.8	4.18	TAS	m_e
ROTZ	158.90	PKPab	04:03:16.268	22.8	4.18	TAS	m_e
STU	160.56	PKPab	04:03:22.073	22.8	4.18	TAS	m_e
TANN	158.25	PKPab	04:03:13.033	22.8	4.18	TAS	m_e
TNS	159.32	PKPab	04:03:17.630	22.8	4.18	TAS	m_e
WET	159.27	PKPab	04:03:17.256	22.8	4.18	TAS	m_e

Event 90503002 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/03	07:25:28.80			-6.9000	160.1000				10.0			31		126.85	132.27	m i ke	EMSC
OrigID 90503034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	128.38		PKPdf	07:44:35.552	-0.1	42.1		1.95		TAS				a_e	
BFO	132.27		PKPdf	07:44:42.702		42.1		1.95		TAS				m_e	
BRG	127.94		PKPdf	07:44:34.702	-0.3	42.1		1.95		TAS				a_e	
BSEG	127.12		PKPdf	07:44:33.052	0.2	42.1		1.95		TAS				a_e	
BUG	130.24		PKPdf	07:44:38.902	0.1	42.1		1.95		TAS				a_e	
CLL	128.04		PKPdf	07:44:34.552	0.1	42.1		1.95		TAS				a_e	
CLZ	128.72		PKPdf	07:44:36.402	0.1	42.1		1.95		TAS				a_e	
FLT1	128.01		PKPdf	07:44:34.552	-0.0	42.1		1.95		TAS				a_e	
FUR	131.10		PKPdf	07:44:40.852	-0.1	42.1		1.95		TAS				a_e	
GEC2	129.49		PKPdf	07:44:37.652	0.2	42.1		1.95		TAS				m_e	
GOR1	127.48		PKPdf	07:44:34.002	0.1	42.1		1.95		TAS				a_e	
GRA1	130.00		PKPdf	07:44:38.702	-0.4	42.1		1.95		TAS				a_e	
GTTG	129.12		PKPdf	07:44:37.152	-0.2	42.1		1.95		TAS				a_e	
IBBN	129.36		PKPdf	07:44:37.452	0.1	42.1		1.95		TAS				a_e	
KAST	129.99		PKPdf	07:44:38.752	-0.4	42.1		1.95		TAS				a_e	
MANZ	129.39		PKPdf	07:44:37.552	0.0	42.1		1.95		TAS				a_e	
MOX	129.12		PKPdf	07:44:36.952	0.1	42.1		1.95		TAS				a_e	
NEUB	128.64		PKPdf	07:44:35.902	0.1	42.1		1.95		TAS				a_e	
NRDL	128.32		PKPdf	07:44:35.552	-0.0	42.1		1.95		TAS				a_e	
PLN	129.00		PKPdf	07:44:36.752	0.2	42.1		1.95		TAS				a_e	
RETH	128.42		PKPdf	07:44:35.702	0.2	42.1		1.95		TAS				a_e	
RJOB	130.70		PKPdf	07:44:39.602	0.1	42.1		1.95		TAS				a_e	
ROTZ	129.51		PKPdf	07:44:37.702	0.0	42.1		1.95		TAS				a_e	
RUE	126.85		PKPdf	07:44:32.552	-0.2	42.1		1.95		TAS				a_e	
STU	131.56		PKPdf	07:44:41.752	0.5	42.1		1.95		TAS				a_e	
TANN	128.92		PKPdf	07:44:36.652	0.0	42.1		1.95		TAS				a_e	
TNS	130.75		PKPdf	07:44:40.252	0.1	42.1		1.95		TAS				a_e	
UBBA	129.66		PKPdf	07:44:38.052	0.0	42.1		1.95		TAS				a_e	
UBR	131.99		PKPdf	07:44:42.352	-0.4	42.1		1.95		TAS				a_e	
WET	129.66		PKPdf	07:44:38.152	0.1	42.1		1.95		TAS				a_e	

WLF 132.09 PKPdf 07:44:43.352 42.1 1.95 TAS m_e

Event 90504002 Mindoro, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/04	01:05:09.30			12.4300	120.9900				10.0			11		90.44	94.45	m i ke	EMSC
OrigID 90504034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	92.33		P	01:18:20.481		67.0		4.64		TAS					m_e
BRG	90.92		P	01:18:13.207	-0.1	67.0		4.64		TAS					m_e
CLL	91.31		P	01:18:15.534	0.1	67.0		4.64		TAS					m_e
GEC2	91.79		P	01:18:17.240	0.3	67.0		4.64		TAS					m_e
MOX	92.37		P	01:18:20.253		67.0		4.64		TAS					m_e
RJOB	92.76		P	01:18:21.458		67.0		4.64		TAS					m_e
ROTZ	92.36		P	01:18:19.848		67.0		4.64		TAS					m_e
RUE	90.44		P	01:18:12.045	-0.4	67.0		4.64		TAS					m_e
UBBA	93.25		P	01:18:25.204		67.0		4.64		TAS					m_e
UBR	94.45		P	01:18:29.101		67.0		4.64		TAS					m_e
WET	92.19		P	01:18:19.415	-0.3	67.0		4.64		TAS					m_e

Event 90504003 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/04	02:41:30.24			38.7180	142.1170				10.0			15		78.81	84.11	m i ke	BGR
OrigID 90504009																	

Magnitude Err Nsta Author OrigID
mb 4.5 BGR 90504009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	80.14		P	02:53:39.051	0.3	36.6		5.28		TAS		3.1	0.75	m_e mb	4.3
BFO	84.11		P	02:53:59.153		36.6		5.28		TAS		6.4	0.92	m_e mb	4.8
BRG	79.89		P	02:53:37.102	-0.1	36.6		5.28		TAS		3.9	0.90	m_e mb	4.3
BSEG	78.81		P	02:53:32.033	-0.1	36.6		5.28		TAS		8.2	0.91	m_e mb	4.8
BUG	81.92		P	02:53:47.803		36.6		5.28		TAS		4.2	0.69	m_e mb	4.7
CLL	79.91		P	02:53:36.942	0.0	36.6		5.28		TAS		7.7	0.89	m_e mb	4.6
FLT1	79.77		P	02:53:36.043	-0.6	36.6		5.28		TAS		8.4	0.93	m_e mb	4.7
GEC2	81.57		P	02:53:46.021		36.6		5.28		TAS		2.5	0.93	m_e mb	4.3
GRA1	81.89		P	02:53:48.418		36.6		5.28		TAS		8.1	0.85	m_e mb	4.9
MANZ	81.31		P	02:53:44.764		36.6		5.28		TAS		0.7	0.93	m_e mb	3.7

MOX	80.97	P	02:53:42.868		36.6	5.28	TAS	3.9	1.01	m_e	mb	4.4
NEUB	80.48	P	02:53:39.699	0.6	36.6	5.28	TAS	9.9	0.98	m_e	mb	4.7
RJOB	82.82	P	02:53:52.958		36.6	5.28	TAS	8.0	0.91	m_e	mb	4.9
ROTZ	81.45	P	02:53:45.637		36.6	5.28	TAS	0.6	0.90	m_e	mb	3.6
WET	81.67	P	02:53:46.921		36.6	5.28	TAS	3.0	0.93	m_e	mb	4.4

Event 90504005 Myanmar-India border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/04	11:03:57.53			25.1900	95.8200				100.0	4.4		20		65.88	71.03	m i ke	BGR
	90504011																

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90504011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BALST	70.70		P	11:15:02.089		77.2		6.24		TAS		18.2	0.81	m_e	mb	5.2
BALST	70.70		pP	11:15:28.261						T__				m_e		
BRG	65.88		P	11:14:32.383	0.2	77.2		6.24		TAS		8.7	0.76	m_e	mb	5.0
BSEG	67.46		P	11:14:42.658	-0.4	77.2		6.24		TAS		17.6	0.75	m_e	mb	5.4
BSEG	67.46		pP	11:15:07.291						T__				m_e		
CLZ	67.88		P	11:14:45.161		77.2		6.24		TAS		17.2	0.98	m_e	mb	5.2
FLT1	67.25		P	11:14:40.600	-0.2	77.2		6.24		TAS		5.1	0.99	m_e	mb	4.7
FLT1	67.25		pP	11:15:05.002						T__				m_e		
GEC2	66.43		P	11:14:36.329	0.5	77.2		6.24		TAS		11.2	0.78	m_e	mb	5.2
GEC2	66.43		pP	11:15:01.095						T__				m_e		
GTTG	68.19		pP	11:15:11.891						T__				m_e		
MANZ	67.21		pP	11:15:06.229						T__				m_e		
NEUB	67.16		P	11:14:40.493	0.0	77.2		6.24		TAS		14.2	0.74	m_e	mb	5.3
NRDL	67.89		pP	11:15:10.667						T__				m_e		
PLONS	69.68		P	11:14:56.027		77.2		6.24		TAS		16.7	1.09	m_e	mb	5.1
RJOB	67.26		P	11:14:41.227	-0.8	77.2		6.24		TAS		18.4	0.83	m_e	mb	5.3
ROTZ	67.20		P	11:14:41.378	0.0	77.2		6.24		TAS		5.3	0.75	m_e	mb	4.8
SLE	70.07		P	11:14:59.052		77.2		6.24		TAS		35.9	0.79	m_e	mb	5.6
SLE	70.07		pP	11:15:24.641						T__				m_e		
STU	69.35		P	11:14:54.893		77.2		6.24		TAS		63.9	1.06	m_e	mb	5.8
SULZ	70.38		P	11:15:00.228		77.2		6.24		TAS		115.8	0.82	m_e	mb	6.0
TNS	69.45		P	11:14:54.198		77.2		6.24		TAS		7.9	0.79	m_e	mb	5.0
UBR	69.04		P	11:14:52.313		77.2		6.24		TAS		10.8	0.81	m_e	mb	5.1
WET	66.90		P	11:14:39.282	0.1	77.2		6.24		TAS		10.8	0.73	m_e	mb	5.2
WLF	71.03		P	11:15:05.646		77.2		6.24		TAS		26.9	0.88	m_e	mb	5.4

Event 90504006 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/04	16:40:29.14			43.4030	146.0130				45.1	1.7		31		74.42	81.36	m i ke	BGR
	90504012																

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90504012
Ms	4.8		BGR	90504012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	77.32		P	16:52:16.834	0.4	31.7		5.48		TAS		98.4	1.01	a_e	mb 5.9
ASSE	77.32		pP	16:52:29.527	-3.2					T__				m_e	
BFO	81.36		P	16:52:38.584		31.7		5.48		TAS		59.0	0.95	m_e	mb 5.6
BRG	77.27		P	16:52:16.484	-0.0	31.7		5.48		TAS		70.0	0.99	a_e	mb 5.8
BSEG	75.89		P	16:52:08.934	-0.0	31.7		5.48		TAS		220.0	0.84	a_e	mb 6.3
BUG	78.99		P	16:52:25.734	0.1	31.7		5.48		TAS		140.6	0.92	m_e	mb 6.0
BUG	78.99		pP	16:52:38.595	-3.2					T__				m_e	
CLL	77.24		P	16:52:15.984	-0.1	31.7		5.48		TAS		233.3	0.82	a_e	mb 6.4
CLZ	77.66		P	16:52:19.084	-0.2	31.7		5.48		TAS		166.0	0.82	m_e	mb 6.2
CLZ	77.66		pP	16:52:32.563	-3.2					T__				m_e	
FLT1	76.96		P	16:52:14.384	-0.0	31.7		5.48		TAS		194.5	0.82	a_e	mb 6.3
FUR	80.50		P	16:52:34.534	-0.1	31.7		5.48		TAS		100.4	0.94	a_e	mb 5.7
GEC2	79.05		P	16:52:26.484	0.5	31.7		5.48		TAS		39.4	1.01	a_e	mb 5.4
GOR1	76.38		P	16:52:12.034	0.3	31.7		5.48		TAS		147.1	1.00	a_e	mb 6.1
GRA1	79.21		P	16:52:27.784	0.0	31.7		5.48		TAS		175.2	0.94	a_e	mb 6.1
GRA1	79.21		L	17:33:34.252						T__		413.1	18.70	a_e	Ms 4.8
GTTG	78.05		P	16:52:20.984	0.0	31.7		5.48		TAS		159.9	0.90	a_e	mb 6.2
IBBN	78.08		P	16:52:20.934	0.1	31.7		5.48		TAS		231.9	0.77	a_e	mb 6.4
IBBN	78.08		pP	16:52:33.783	-3.2					T__				m_e	
KAST	78.84		P	16:52:25.334	-0.2	31.7		5.48		TAS		85.6	0.95	a_e	mb 5.8
MANZ	78.66		P	16:52:24.284	-0.1	31.7		5.48		TAS		11.9	0.96	a_e	mb 4.9
MOX	78.27		P	16:52:22.134	0.1	31.7		5.48		TAS		79.9	1.11	a_e	mb 5.8
MOX	78.27		L	17:33:05.320						T__		451.5	20.00	a_e	Ms 4.8
NEUB	77.75		P	16:52:19.034	0.2	31.7		5.48		TAS		184.1	0.88	a_e	mb 6.2
NEUB	77.75		pP	16:52:32.115	-3.2					T__				m_e	
NRDL	77.19		P	16:52:16.084	0.1	31.7		5.48		TAS		77.3	0.80	a_e	mb 5.9
RETH	77.22		P	16:52:16.334	-0.5	31.7		5.48		TAS		590.4	0.89	a_e	mb 6.7
RGN	74.42		P	16:52:00.634	-0.3	31.7		5.48		TAS		592.8	1.31	a_e	mb 6.5
RJOB	80.31		P	16:52:33.596	0.2	31.7		5.48		TAS		58.3	0.95	m_e	mb 5.5
ROTZ	78.81		P	16:52:25.434	0.2	31.7		5.48		TAS		17.1	1.05	a_e	mb 5.0
ROTZ	78.81		pP	16:52:38.214	-3.2					T__				m_e	
RUE	76.00		P	16:52:09.484	-0.1	31.7		5.48		TAS		216.1	0.99	a_e	mb 6.2
RUE	76.00		pP	16:52:22.862	-3.2					T__				m_e	
STU	80.69		P	16:52:35.184	0.5	31.7		5.48		TAS		244.3	0.92	a_e	mb 6.2
STU	80.69		pP	16:52:47.977	-3.2					T__				m_e	
TANN	78.17		P	16:52:21.684	0.1	31.7		5.48		TAS		26.2	0.96	a_e	mb 5.3
TNS	79.68		P	16:52:29.784	0.3	31.7		5.48		TAS		59.5	0.95	a_e	mb 5.5
UBBA	78.66		P	16:52:24.084	0.4	31.7		5.48		TAS		26.6	0.91	a_e	mb 5.3
UBR	81.32		P	16:52:37.334	-0.4	31.7		5.48		TAS		24.9	1.03	a_e	mb 5.2

./bul1905.txt

Wed Jul 21 10:35:14 2021

8

WET	79.10	P	16:52:27.134	0.5	31.7	5.48	TAS	93.1	0.98	a_e	mb	5.8
WLF	80.89	P	16:52:36.834	-1.4	31.7	5.48	TAS	46.9	1.04	a_e	mb	5.5

Event 90504007 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/04	19:51:54.51			40.1310	141.9560				45.0	1.1		18		77.50	82.81	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90504013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	82.81		P	20:04:11.711		36.0		5.37		TAS		5.9	0.94	m_e	mb	4.8
BFO	82.81		pP	20:04:24.802						T__				m_e		
BRG	78.61		P	20:03:49.440	0.1	36.0		5.37		TAS		4.3	0.80	m_e	mb	4.5
BSEG	77.50		P	20:03:43.822	-0.1	36.0		5.37		TAS		8.9	0.93	m_e	mb	4.9
CLL	78.63		P	20:03:49.365	-0.1	36.0		5.37		TAS		9.2	0.81	m_e	mb	4.8
CLZ	79.18		P	20:03:52.950	-0.1	36.0		5.37		TAS		8.9	0.91	m_e	mb	4.8
FLT1	78.47		P	20:03:48.380	0.4	36.0		5.37		TAS		9.2	0.78	m_e	mb	5.0
FLT1	78.47		pP	20:04:01.058						T__				m_e		
FUR	81.82		P	20:04:06.907		36.0		5.37		TAS		11.7	0.76	m_e	mb	5.1
GEC2	80.31		P	20:03:58.528		36.0		5.37		TAS		2.6	0.83	m_e	mb	4.2
GRA1	80.60		P	20:04:00.775		36.0		5.37		TAS		9.8	0.79	m_e	mb	4.9
GTTG	79.56		P	20:03:54.763	0.5	36.0		5.37		TAS		5.7	0.84	m_e	mb	4.5
IBBN	79.72		P	20:03:55.509	0.1	36.0		5.37		TAS		7.0	0.76	m_e	mb	4.7
MANZ	80.03		P	20:03:57.155	-0.4	36.0		5.37		TAS		0.9	0.83	m_e	mb	3.7
MOX	79.68		P	20:03:55.256	0.6	36.0		5.37		TAS		3.2	0.91	m_e	mb	4.2
NEUB	79.18		P	20:03:52.643	-0.4	36.0		5.37		TAS		8.7	0.81	m_e	mb	4.8
RJOB	81.56		P	20:04:05.936		36.0		5.37		TAS		9.5	0.86	m_e	mb	4.9
RJOB	81.56		pP	20:04:19.137						T__				m_e		
ROTZ	80.16		P	20:03:57.274		36.0		5.37		TAS		0.7	0.82	m_e	mb	3.6
UBBA	80.15		P	20:03:57.412		36.0		5.37		TAS		2.0	0.91	m_e	mb	4.0
WET	80.40		P	20:03:59.380		36.0		5.37		TAS		3.8	0.99	m_e	mb	4.3

Event 90504008 Celebes Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/04	21:02:12.00			2.0100	123.6900				352.0			13		100.04	103.94	m i ke	EMSC

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
ASSE	102.33		Pdiff	21:15:28.748						T__					m_e
BRG	100.78		Pdiff	21:15:21.203	0.5					T__					m_e
BSEG	101.91		Pdiff	21:15:26.653	-0.5					T__					m_e
CLL	101.22		Pdiff	21:15:23.175	0.3					T__					m_e
GEC2	101.51		Pdiff	21:15:24.277	-0.4					T__					m_e
GTTG	102.94		Pdiff	21:15:31.164						T__					m_e
IBBN	103.94		Pdiff	21:15:36.255						T__					m_e
MANZ	102.16		Pdiff	21:15:27.707	-0.2					T__					m_e
MOX	102.25		Pdiff	21:15:27.628						T__					m_e
NEUB	101.99		Pdiff	21:15:26.984						T__					m_e
NRDL	102.53		Pdiff	21:15:29.633						T__					m_e
RGN	100.04		Pdiff	21:15:15.147	-1.5					T__					m_e
RUE	100.41		Pdiff	21:15:19.814	1.2					T__					m_e
TANN	101.81		Pdiff	21:15:25.896	-0.3					T__					m_e
WET	101.94		Pdiff	21:15:26.488	0.6					T__					m_e

Event 90505001 Off coast of northern California, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/05	06:46:58.36			40.8630	-129.5500				19.2	1.7		14		80.66	84.96	m i ke	BGR
	90505007																

Magnitude Err Nsta Author OrigID
 mb 4.8 BGR 90505007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	81.15		P	06:59:11.388	-0.1	331.2		5.16		TAS		11.8	1.21	m_e mb	4.8
ASSE	81.15		pP	06:59:16.759						T__					m_e
BFO	83.69		P	06:59:24.313		331.2		5.16		TAS		8.0	1.18	m_e mb	4.8
BRG	83.23		P	06:59:22.336		331.2		5.16		TAS		7.6	1.09	m_e mb	4.8
BRG	83.23		pP	06:59:28.161						T__					m_e
CLL	82.57		P	06:59:19.098		331.2		5.16		TAS		5.0	1.09	m_e mb	4.7
CLL	82.57		pP	06:59:24.392						T__					m_e
CLZ	81.31		P	06:59:12.990	-0.9	331.2		5.16		TAS		54.8	1.67	m_e mb	5.3
CLZ	81.31		pP	06:59:18.287						T__					m_e
FLT1	81.14		P	06:59:10.806	0.3	331.2		5.16		TAS		8.4	1.07	m_e mb	4.7
FLT1	81.14		pP	06:59:16.458						T__					m_e
GEC2	84.96		P	06:59:31.613		331.2		5.16		TAS		6.6	1.16	m_e mb	4.8
GEC2	84.96		pP	06:59:36.694						T__					m_e
MOX	82.74		P	06:59:18.721		331.2		5.16		TAS		9.8	1.25	m_e mb	4.9
NRDL	80.66		P	06:59:08.844	-0.9	331.2		5.16		TAS		10.1	1.22	m_e mb	4.7
ROTZ	83.69		P	06:59:24.958		331.2		5.16		TAS		2.6	1.35	m_e mb	4.3
TANN	83.20		P	06:59:20.980		331.2		5.16		TAS		1.8	0.92	m_e mb	4.3
UBBA	82.08		P	06:59:16.248		331.2		5.16		TAS		45.9	1.82	m_e mb	5.3
UBR	84.85		P	06:59:30.738		331.2		5.16		TAS		12.5	1.21	m_e mb	5.0

WET 84.45 P 06:59:27.469 331.2 5.16 TAS 11.8 1.44 m_e mb 4.9

Event 90505002 New Guinea, Papua New Guinea

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/05/05 08:42:49.80 -6.3300 145.7800 142.0 23 119.57 124.77 m i ke EMSC
90505034

Magnitude Err Nsta Author OrigID

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Lists station data for event 90505002.

Event 90506002 Luzon, Philippine Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/05/06 02:48:43.67 18.7860 120.5560 33.0 21 85.07 90.63 m i ke BGR
90506008

Magnitude Err Nsta Author OrigID

mb	4.8	BGR	90506008
Ms	5.2	BGR	90506008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	85.64		P	03:01:18.547	-0.3	63.4		4.79		TAS		11.2	0.88	m_e	mb 5.0
BSEG	86.31		P	03:01:21.810	0.3	63.4		4.79		TAS		9.7	0.95	m_e	mb 4.9
BUG	89.13		P	03:01:35.596		63.4		4.79		TAS		11.7	0.89	m_e	mb 5.1
CLL	86.00		P	03:01:20.100	-0.0	63.4		4.79		TAS		5.2	0.71	m_e	mb 4.8
CLZ	87.23		P	03:01:26.596	0.1	63.4		4.79		TAS		5.9	0.73	m_e	mb 4.8
FLT1	86.54		P	03:01:22.743	-0.6	63.4		4.79		TAS		4.9	0.68	m_e	mb 4.8
GEC2	86.63		P	03:01:23.733	0.1	63.4		4.79		TAS		4.0	0.82	m_e	mb 4.6
GRA1	87.72		P	03:01:28.636	0.2	63.4		4.79		TAS		4.6	0.80	m_e	mb 4.9
GRA1	87.72		L	03:47:18.388						T__		776.0	19.40	a_e	Ms 5.1
GTTG	87.60		P	03:01:27.905	-0.4	63.4		4.79		TAS		8.5	0.74	m_e	mb 5.2
IBBN	88.44		P	03:01:31.903		63.4		4.79		TAS		12.5	0.89	m_e	mb 5.2
KAST	88.61		P	03:01:32.999		63.4		4.79		TAS		3.4	0.85	m_e	mb 4.6
MANZ	87.08		P	03:01:25.794	-0.0	63.4		4.79		TAS		0.8	0.74	m_e	mb 3.9
MOX	87.07		P	03:01:25.253	-0.1	63.4		4.79		TAS		3.9	0.76	m_e	mb 4.6
MOX	87.07		L	03:43:57.276						T__		1019.4	22.00	a_e	Ms 5.2
NEUB	86.74		P	03:01:24.072	-0.3	63.4		4.79		TAS		5.4	0.70	m_e	mb 4.8
ROTZ	87.12		P	03:01:26.009	-0.1	63.4		4.79		TAS		1.4	0.80	m_e	mb 4.2
RUE	85.07		P	03:01:16.162	-0.1	63.4		4.79		TAS		31.4	0.76	m_e	mb 5.6
TANN	86.69		P	03:01:23.127	0.2	63.4		4.79		TAS		2.7	0.75	m_e	mb 4.5
TNS	89.07		P	03:01:34.885		63.4		4.79		TAS		4.9	0.79	m_e	mb 4.8
UBR	89.30		P	03:01:35.817		63.4		4.79		TAS		12.6	0.77	m_e	mb 5.2
WET	86.99		P	03:01:25.368	0.3	63.4		4.79		TAS		1.3	0.76	m_e	mb 4.1
WLF	90.63		P	03:01:42.790		63.4		4.79		TAS		18.4	0.82	m_e	mb 5.5

Event 90506003 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/06	03:56:49.94			-19.7590	170.9860				226.0			15		144.95	148.24	m i ke	BGR
OrigID 90506009																	

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	04:16:07.896		35.6		3.05		TAS				m_e	
GEC2	145.71		PKPbc	04:16:00.429		35.6		3.05		TAS				m_e	
GRA1	146.04		PKPbc	04:16:02.191		35.6		3.05		TAS				m_e	
GTTG	144.95		PKPbc	04:15:58.330	-0.2	35.6		3.05		TAS				m_e	
IBBN	144.98		PKPbc	04:15:58.388		35.6		3.05		TAS				m_e	
KAST	145.75		PKPbc	04:16:00.723		35.6		3.05		TAS				m_e	
MANZ	145.47		PKPbc	04:15:59.800		35.6		3.05		TAS				m_e	
MOX	145.12		PKPbc	04:15:58.739		35.6		3.05		TAS				m_e	
ROTZ	145.60		PKPbc	04:16:00.325		35.6		3.05		TAS				m_e	

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Wed Jul 21 10:35:14 2021

12

TANN	144.99	PKPbc	04:15:58.287	-0.3	35.6	3.05	TAS	m_e
TNS	146.58	PKPbc	04:16:02.945		35.6	3.05	TAS	m_e
UBBA	145.55	PKPbc	04:15:59.927		35.6	3.05	TAS	m_e
UBR	148.11	PKPbc	04:16:07.611		35.6	3.05	TAS	m_e
WET	145.82	PKPbc	04:16:00.946		35.6	3.05	TAS	m_e
WLF	147.79	PKPbc	04:16:07.765		35.6	3.05	TAS	m_e

Event 90506009 Eastern New Guinea, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/06	21:19:35.41			-7.8700	146.6000				142.3			32		120.42	126.85	m i ke	BGR
OrigID 90506015																	

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	123.08		PKPdf	21:38:14.684	-0.5	58.9		1.93		TAS					m_e
BFO	126.49		PKPdf	21:38:21.107	-0.4	58.9		1.93		TAS					m_e
BRG	122.05		PKPdf	21:38:12.873	-0.1	58.9		1.93		TAS					m_e
BSEG	122.21		PKPdf	21:38:13.571	-0.1	58.9		1.93		TAS					m_e
BUG	125.20		PKPdf	21:38:19.035	-0.2	58.9		1.93		TAS					m_e
CLL	122.33		PKPdf	21:38:13.139	-0.4	58.9		1.93		TAS					m_e
CLZ	123.40		PKPdf	21:38:15.913	0.2	58.9		1.93		TAS					m_e
FLT1	122.69		PKPdf	21:38:14.056	-0.3	58.9		1.93		TAS					m_e
FUR	124.94		PKPdf	21:38:18.381	-0.1	58.9		1.93		TAS					m_e
FUR	124.94		PP	21:40:08.925						T__					m_e
GEC2	123.20		PKPdf	21:38:15.257	0.1	58.9		1.93		TAS					m_e
GOR1	122.28		PKPdf	21:38:14.124	0.5	58.9		1.93		TAS					a_e
GOR1	122.28		pPKPdf	21:38:51.957						T__					m_e
GRA1	124.15		PKPdf	21:38:17.424	0.4	58.9		1.93		TAS					a_e
GTTG	123.78		PKPdf	21:38:16.600	0.1	58.9		1.93		TAS					m_e
HLG	123.20		PKPdf	21:38:15.774	0.1	58.9		1.93		TAS					a_e
IBBN	124.43		PKPdf	21:38:17.686	-0.2	58.9		1.93		TAS					m_e
KAST	124.77		PKPdf	21:38:18.250	-0.1	58.9		1.93		TAS					m_e
KAST	124.77		pPKPdf	21:38:56.615						T__					m_e
MANZ	123.51		PKPdf	21:38:15.725	-0.0	58.9		1.93		TAS					m_e
MOX	123.42		PKPdf	21:38:15.527	-0.1	58.9		1.93		TAS					m_e
MOX	123.42		PP	21:39:58.356						T__					m_e
NEUB	123.04		PKPdf	21:38:14.713	-0.2	58.9		1.93		TAS					m_e
NRDL	123.16		PKPdf	21:38:15.346	0.0	58.9		1.93		TAS					m_e
RETH	123.39		PKPdf	21:38:15.174		58.9		1.93		TAS					a_e
RGN	120.42		PKPdf	21:38:10.324	0.2	58.9		1.93		TAS					a_e
RJOB	124.28		PKPdf	21:38:16.793	-0.4	58.9		1.93		TAS					m_e
ROTZ	123.57		PKPdf	21:38:16.045	0.2	58.9		1.93		TAS					m_e
ROTZ	123.57		PP	21:39:58.858						T__					m_e
RUE	121.30		PKPdf	21:38:11.588	-0.0	58.9		1.93		TAS					m_e

RUE	121.30	PP	21:39:42.645							T__	m_e
STU	125.77	PKPdf	21:38:20.574	0.4	58.9	1.93				TAS	a_e
TANN	123.09	PKPdf	21:38:15.474	0.5	58.9	1.93				TAS	a_e
TNS	125.33	PKPdf	21:38:19.452	0.1	58.9	1.93				TAS	m_e
UBBA	124.18	PKPdf	21:38:17.040	-0.1	58.9	1.93				TAS	m_e
UBR	125.86	PKPdf	21:38:20.215	-0.0	58.9	1.93				TAS	m_e
UBR	125.86	PP	21:40:14.146							T__	m_e
WET	123.52	PKPdf	21:38:15.952	0.2	58.9	1.93				TAS	m_e
WET	123.52	PP	21:39:59.302							T__	m_e
WLF	126.85	PKPdf	21:38:22.791	0.4	58.9	1.93				TAS	m_e

Event 90507001 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/07	06:28:25.09			51.5900	154.0200				33.0			25		71.81	76.38	m i ke	BGR
90507007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90507007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	72.13		P	06:39:46.948	-0.1	23.2		5.84		TAS		6.0	0.92	m_e mb	4.7
BFO	76.22		P	06:40:10.039		23.2		5.84		TAS		17.3	0.83	m_e mb	5.2
BUG	73.56		P	06:39:55.206	0.5	23.2		5.84		TAS		22.1	1.07	m_e mb	5.1
CLL	72.30		P	06:39:47.407	0.2	23.2		5.84		TAS		10.2	0.70	m_e mb	5.1
CLZ	72.47		P	06:39:48.165	0.2	23.2		5.84		TAS		9.4	0.73	m_e mb	5.0
FLT1	71.81		P	06:39:44.347	0.1	23.2		5.84		TAS		7.1	0.67	m_e mb	4.9
FUR	75.64		P	06:40:07.701		23.2		5.84		TAS		24.9	0.80	m_e mb	5.4
GEC2	74.36		P	06:39:59.735	-0.6	23.2		5.84		TAS		6.8	0.78	m_e mb	4.7
GRA1	74.24		P	06:40:00.015	0.4	23.2		5.84		TAS		22.6	0.74	m_e mb	5.3
GTTG	72.84		P	06:39:51.604	0.0	23.2		5.84		TAS		9.8	0.62	m_e mb	5.1
IBBN	72.64		P	06:39:49.822	0.1	23.2		5.84		TAS		12.7	0.80	m_e mb	5.1
KAST	73.52		P	06:39:55.094	-0.1	23.2		5.84		TAS		19.9	1.01	m_e mb	5.1
MANZ	73.74		P	06:39:56.271	-0.4	23.2		5.84		TAS		1.6	0.92	m_e mb	4.0
MOX	73.26		P	06:39:53.702	0.4	23.2		5.84		TAS		6.7	0.66	m_e mb	4.9
NEUB	72.72		P	06:39:50.485	0.0	23.2		5.84		TAS		10.3	0.72	m_e mb	5.1
NRDL	71.93		P	06:39:45.437	0.6	23.2		5.84		TAS		7.7	1.03	m_e mb	4.8
RJOB	75.62		P	06:40:07.256		23.2		5.84		TAS		7.9	0.85	m_e mb	4.9
ROTZ	73.92		P	06:39:57.304	0.1	23.2		5.84		TAS		3.9	1.12	m_e mb	4.3
STU	75.60		P	06:40:06.705		23.2		5.84		TAS		41.9	0.83	m_e mb	5.6
TANN	73.26		P	06:39:53.329	0.8	23.2		5.84		TAS		2.9	0.80	m_e mb	4.5
TNS	74.43		P	06:40:00.179		23.2		5.84		TAS		18.9	0.72	m_e mb	5.2
UBBA	73.50		P	06:39:54.826	-0.1	23.2		5.84		TAS		68.9	1.56	m_e mb	5.4
UBR	76.38		P	06:40:11.089		23.2		5.84		TAS		8.7	0.83	m_e mb	4.9
WET	74.31		P	06:39:59.903	-0.7	23.2		5.84		TAS		13.6	0.85	m_e mb	5.0
WLF	75.48		P	06:40:06.743		23.2		5.84		TAS		13.0	0.86	m_e mb	5.0

Event 90507006 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/07	17:58:31.53			44.3560	148.8550				58.4			16		75.88	81.42	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90507012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	81.41		P	18:10:39.857		29.4		5.47		TAS		5.5	0.86	m_e mb	4.6
BFO	81.41		pP	18:10:56.161						T__				m_e	
BSEG	75.88		P	18:10:09.739	-0.6	29.4		5.47		TAS		4.3	0.74	m_e mb	4.7
CLL	77.34		P	18:10:17.374	0.1	29.4		5.47		TAS		7.3	0.91	m_e mb	4.8
CLZ	77.69		P	18:10:20.292	0.3	29.4		5.47		TAS		7.6	1.01	m_e mb	4.8
FLT1	77.00		P	18:10:15.459	0.6	29.4		5.47		TAS		4.4	0.89	m_e mb	4.6
GRA1	79.31		P	18:10:28.978		29.4		5.47		TAS		11.4	0.87	m_e mb	4.9
GTTG	78.07		P	18:10:22.506	-0.4	29.4		5.47		TAS		6.4	0.87	m_e mb	4.8
IBBN	78.05		P	18:10:21.887	0.2	29.4		5.47		TAS		8.5	0.86	m_e mb	4.9
KAST	78.84		P	18:10:26.056		29.4		5.47		TAS		4.0	0.87	m_e mb	4.5
MANZ	78.76		P	18:10:25.714		29.4		5.47		TAS		0.7	0.90	m_e mb	3.7
MOX	78.35		P	18:10:23.392		29.4		5.47		TAS		3.5	0.99	m_e mb	4.4
RJOB	80.48		P	18:10:35.334		29.4		5.47		TAS		4.2	0.88	m_e mb	4.4
ROTZ	78.92		P	18:10:26.718		29.4		5.47		TAS		0.5	0.86	m_e mb	3.6
TNS	79.70		P	18:10:30.821		29.4		5.47		TAS		4.8	0.82	m_e mb	4.5
UBR	81.42		P	18:10:39.917		29.4		5.47		TAS		2.5	0.73	m_e mb	4.3
WET	79.24		P	18:10:28.690		29.4		5.47		TAS		5.3	0.90	m_e mb	4.6

Event 90508002 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/08	00:20:01.28			41.1200	143.5600				33.0			17		77.16	82.53	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90508008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	82.53		P	00:32:20.158		34.0		5.39		TAS		3.9	0.75	m_e mb	4.7
BRG	78.37		P	00:31:57.904	0.6	34.0		5.39		TAS		2.4	0.70	m_e mb	4.4
BSEG	77.16		P	00:31:51.531	-0.2	34.0		5.39		TAS		4.6	0.88	m_e mb	4.6
CLL	78.37		P	00:31:57.838	-0.1	34.0		5.39		TAS		5.5	0.78	m_e mb	4.8

CLZ	78.87	P	00:32:01.397	-0.2	34.0	5.39	TAS	4.9	0.86	m_e	mb	4.6
FLT1	78.17	P	00:31:56.807	0.7	34.0	5.39	TAS	6.0	0.72	m_e	mb	4.8
FUR	81.59	P	00:32:15.144		34.0	5.39	TAS	11.4	0.76	m_e	mb	5.1
GEC2	80.10	P	00:32:07.280		34.0	5.39	TAS	2.7	0.87	m_e	mb	4.2
GRA1	80.35	P	00:32:09.400		34.0	5.39	TAS	8.9	0.76	m_e	mb	4.8
GTTG	79.26	P	00:32:03.313	0.7	34.0	5.39	TAS	6.7	0.76	m_e	mb	4.8
MANZ	79.78	P	00:32:05.831		34.0	5.39	TAS	0.6	0.70	m_e	mb	3.7
MOX	79.42	P	00:32:03.781	-0.3	34.0	5.39	TAS	2.4	0.70	m_e	mb	4.3
NEUB	78.91	P	00:32:00.898	0.3	34.0	5.39	TAS	8.2	0.74	m_e	mb	4.8
NRDL	78.42	P	00:31:56.886	0.1	34.0	5.39	TAS	3.3	0.72	m_e	mb	4.6
RJOB	81.35	P	00:32:14.042		34.0	5.39	TAS	5.4	0.79	m_e	mb	4.6
ROTZ	79.92	P	00:32:06.599		34.0	5.39	TAS	0.7	0.89	m_e	mb	3.6
WET	80.17	P	00:32:08.089		34.0	5.39	TAS	4.2	0.92	m_e	mb	4.4

Event 90509008 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/09	21:37:17.31			50.3940	154.8810				18.4	4.2		23		71.86	77.54	m i ke	BGR
OrigID 90509014																	

Magnitude Err Nsta Author OrigID
 mb 5.0 BGR 90509014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	77.54		P	21:49:09.557		23.0		5.76		TAS		19.4	1.11	m_e	mb	5.1
BRG	73.77		P	21:48:48.149	-0.2	23.0		5.76		TAS		6.8	0.87	m_e	mb	4.7
BRG	73.77		pP	21:48:54.330						T__				m_e		
BSEG	71.86		P	21:48:37.614	0.3	23.0		5.76		TAS				m_e		
BUG	74.87		P	21:48:54.723	-0.3	23.0		5.76		TAS		20.4	1.01	m_e	mb	5.1
CLL	73.62		P	21:48:47.150	-0.2	23.0		5.76		TAS		25.1	1.12	m_e	mb	5.2
CLZ	73.78		P	21:48:48.789	0.4	23.0		5.76		TAS		16.7	0.90	m_e	mb	5.1
FLT1	73.12		P	21:48:43.908	0.3	23.0		5.76		TAS		18.2	1.13	m_e	mb	5.1
FUR	76.95		P	21:49:07.098		23.0		5.76		TAS		23.1	0.83	m_e	mb	5.3
FUR	76.95		pP	21:49:11.170						T__				m_e		
GEC2	75.68		P	21:48:59.376		23.0		5.76		TAS		8.0	0.87	m_e	mb	4.9
GOR1	72.50		P	21:48:41.380	-0.4	23.0		5.76		TAS		30.8	1.31	m_e	mb	5.3
GRA1	75.56		P	21:48:59.126	-0.6	23.0		5.76		TAS		30.5	0.96	m_e	mb	5.4
IBBN	73.96		P	21:48:49.666	0.0	23.0		5.76		TAS		17.6	0.72	m_e	mb	5.2
IBBN	73.96		pP	21:48:55.199						T__				m_e		
KAST	74.84		P	21:48:54.897	-0.1	23.0		5.76		TAS		15.1	0.85	m_e	mb	5.0
MANZ	75.06		P	21:48:55.770	0.3	23.0		5.76		TAS		3.9	1.21	m_e	mb	4.3
MOX	74.58		P	21:48:52.911	0.4	23.0		5.76		TAS		7.7	0.74	m_e	mb	4.8
NEUB	74.04		P	21:48:49.913	-0.1	23.0		5.76		TAS		15.0	0.99	m_e	mb	5.0
NEUB	74.04		pP	21:48:56.027						T__				m_e		
NRDL	73.24		P	21:48:45.457	0.3	23.0		5.76		TAS		7.5	0.88	m_e	mb	4.8
RJOB	76.94		P	21:49:07.002		23.0		5.76		TAS		9.2	0.84	m_e	mb	4.9

RJOB	76.94	pP	21:49:11.404						T__						m_e	
ROTZ	75.23	P	21:48:57.250	0.3	23.0	5.76			TAS	3.5	1.10	m_e	mb			4.3
STU	76.92	P	21:49:06.267		23.0	5.76			TAS	48.3	1.02	m_e	mb			5.6
TNS	75.74	P	21:48:59.657		23.0	5.76			TAS	14.6	0.70	m_e	mb			5.2
UBBA	74.82	P	21:48:54.259	-0.1	23.0	5.76			TAS	21.1	1.38	m_e	mb			5.0
WET	75.63	P	21:48:59.523		23.0	5.76			TAS	22.3	1.06	m_e	mb			5.2

Event 90509009 Shikoku, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/09	22:43:26.27			32.5300	132.9090				42.5	0.6		31		78.93	85.51	m i ke	BGR
	90509015																

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90509015
Ms	6.2		BGR	90509015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	81.74		P	22:55:38.860	-0.1	46.3		5.17		TAS		244.0	2.35	a_e	mb	5.9
BFO	85.49		P	22:55:57.710	0.1	46.3		5.17		TAS		202.5	1.78	a_e	mb	6.1
BFO	85.49		pP	22:56:09.966	15.0					T__				m_e		
BRG	81.09		P	22:55:35.210	-0.2	46.3		5.17		TAS		208.2	2.39	a_e	mb	5.7
BSEG	80.65		P	22:55:32.960	-0.1	46.3		5.17		TAS		41.7	1.26	a_e	mb	5.3
BSEG	80.65		pP	22:55:45.372	15.0					T__				m_e		
BUG	83.73		P	22:55:48.760	0.2	46.3		5.17		TAS		51.2	1.26	a_e	mb	5.6
BUG	83.73		pP	22:56:00.997	15.0					T__				m_e		
CLL	81.24		P	22:55:35.760	-0.5	46.3		5.17		TAS		92.6	1.45	a_e	mb	5.6
CLZ	82.08		P	22:55:40.910	0.1	46.3		5.17		TAS		100.8	1.47	m_e	mb	5.7
FLT1	81.35		P	22:55:36.210	-0.6	46.3		5.17		TAS		74.4	1.35	a_e	mb	5.5
FLT1	81.35		pP	22:55:48.547	15.0					T__				m_e		
FUR	84.21		P	22:55:51.760	-0.3	46.3		5.17		TAS		89.6	1.05	a_e	mb	5.9
FUR	84.21		pP	22:56:04.152	15.0					T__				m_e		
GEC2	82.56		P	22:55:42.760	0.4	46.3		5.17		TAS		72.0	1.76	a_e	mb	5.6
GOR1	80.87		P	22:55:34.510	0.3	46.3		5.17		TAS		187.2	1.60	a_e	mb	5.9
GRA1	83.18		P	22:55:46.710	0.1	46.3		5.17		TAS		355.3	1.74	a_e	mb	6.3
GRA1	83.18		pP	22:55:59.112	15.0					T__				m_e		
GRA1	83.18		L	23:36:45.230						T__		13551.4	19.90	a_e	Ms	6.3
GTTG	82.47		P	22:55:42.710	0.2	46.3		5.17		TAS		86.5	1.55	a_e	mb	5.7
IBBN	82.89		P	22:55:44.510	0.2	46.3		5.17		TAS		68.5	1.26	a_e	mb	5.7
IBBN	82.89		pP	22:55:56.957	15.0					T__				m_e		
KAST	83.40		P	22:55:47.460	-0.2	46.3		5.17		TAS		60.8	1.42	a_e	mb	5.6
KAST	83.40		pP	22:55:59.756	15.0					T__				m_e		
MANZ	82.56		P	22:55:43.210	-0.3	46.3		5.17		TAS		24.3	1.64	a_e	mb	5.2
MANZ	82.56		pP	22:55:55.402	15.0					T__				m_e		
MOX	82.34		P	22:55:41.910	0.2	46.3		5.17		TAS		200.2	2.15	a_e	mb	5.9
MOX	82.34		L	23:36:08.258						T__		10230.2	20.20	a_e	Ms	6.2

NEUB	81.89	P	22:55:39.410	0.0	46.3	5.17	TAS	118.5	1.51	a_e	mb	5.8
NRDL	81.74	P	22:55:38.860	0.1	46.3	5.17	TAS	222.3	2.20	a_e	mb	5.9
NRDL	81.74	pP	22:55:51.182	15.0			T__				m_e	
RETH	81.89	P	22:55:39.560	0.4	46.3	5.17	TAS	971.9	2.24	a_e	mb	6.5
RGN	78.93	P	22:55:24.199	-0.0	46.3	5.17	TAS	124.5	1.39	m_e	mb	5.8
RJOB	83.76	P	22:55:49.460	0.2	46.3	5.17	TAS	98.9	1.57	a_e	mb	5.8
RJOB	83.76	pP	22:56:01.619	15.0			T__				m_e	
ROTZ	82.66	P	22:55:43.960	0.2	46.3	5.17	TAS	46.7	1.78	a_e	mb	5.4
RUE	80.10	P	22:55:30.160	-0.2	46.3	5.17	TAS	170.6	1.44	a_e	mb	5.8
STU	84.77	P	22:55:54.160	-0.4	46.3	5.17	TAS	612.2	2.00	a_e	mb	6.5
STU	84.77	pP	22:56:06.554	15.0			T__				m_e	
TANN	82.10	P	22:55:40.710	0.0	46.3	5.17	TAS	146.5	2.20	a_e	mb	5.7
TNS	84.08	P	22:55:51.060	0.2	46.3	5.17	TAS	103.2	1.63	a_e	mb	5.8
TNS	84.08	pP	22:56:03.412	15.0			T__				m_e	
UBBA	82.96	P	22:55:45.260	0.5	46.3	5.17	TAS	152.3	1.74	a_e	mb	5.9
UBBA	82.96	pP	22:55:57.463	15.0			T__				m_e	
UBR	85.11	P	22:55:55.810	-0.5	46.3	5.17	TAS	98.5	1.54	a_e	mb	5.8
WET	82.76	P	22:55:44.310	-0.1	46.3	5.17	TAS	138.2	1.93	a_e	mb	5.9
WLF	85.51	P	22:55:58.360		46.3	5.17	TAS	242.0	1.81	a_e	mb	6.0
WLF	85.51	pP	22:56:10.787	15.0			T__				m_e	

Event 90511001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/11	05:04:23.04			-21.7410	170.3420				33.0			18		145.47	149.62	m i ke	BGR
OrigID 90511007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.2		BGR	90511007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.83		PKPbc	05:23:58.882	0.0	38.1		2.84		TAS				m_e	
BRG	145.56		PKPbc	05:23:57.729	-0.3	38.1		2.84		TAS				m_e	
CLL	145.61		PKPbc	05:23:57.722	-0.4	38.1		2.84		TAS				m_e	
CLZ	146.18		PKPbc	05:24:00.188	0.3	38.1		2.84		TAS				m_e	
FLT1	145.47		PKPbc	05:23:57.268	-0.6	38.1		2.84		TAS				m_e	
GEC2	147.17		PKPbc	05:24:02.801	-0.5	38.1		2.84		TAS				m_e	
GRA1	147.58		L	06:11:24.342						T__		45.2	19.70	a_e	Ms 4.3
GTTG	146.56		PKPbc	05:24:01.341	0.4	38.1		2.84		TAS				m_e	
IBBN	146.65		PKPbc	05:24:01.418	-0.1	38.1		2.84		TAS				m_e	
KAST	147.38		PKPbc	05:24:03.569	0.2	38.1		2.84		TAS				m_e	
MANZ	147.00		PKPbc	05:24:02.494	0.5	38.1		2.84		TAS				m_e	
MOX	146.68		L	06:26:03.127						T__		33.3	21.70	a_e	Ms 4.1
NEUB	146.18		PKPbc	05:23:59.958	0.2	38.1		2.84		TAS				m_e	
NRDL	145.73		PKPbc	05:23:58.498	-0.2	38.1		2.84		TAS				m_e	
RETH	145.77		PKPbc	05:23:58.574	-0.3	38.1		2.84		TAS				m_e	

./bul1905.txt Wed Jul 21 10:35:14 2021 18

RJOB	148.40	PKPbc	05:24:05.721	-0.4	38.1	2.84	TAS	m_e
ROTZ	147.12	PKPbc	05:24:02.955	0.3	38.1	2.84	TAS	m_e
TANN	146.52	PKPbc	05:24:01.034	0.4	38.1	2.84	TAS	m_e
UBR	149.62	PKPbc	05:24:09.102		38.1	2.84	TAS	m_e
WET	147.31	PKPbc	05:24:03.339	0.1	38.1	2.84	TAS	m_e

Event 90511003 Iraq

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/11	10:29:20.03			35.1790	42.9640				33.0			19		25.49	30.45	m i ke	BGR
OrigID 90511009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90511009
Ms	4.3		BGR	90511009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	26.16		P	10:34:49.576	-0.6	110.1		8.97		TAS		15.5	1.25	m_e mb	4.5
BSEG	29.50		P	10:35:19.208	0.7	110.1		8.97		TAS		68.3	1.53	m_e mb	5.2
CLL	26.88		P	10:34:56.166	-0.4	110.1		8.97		TAS		34.5	1.52	m_e mb	4.8
CLZ	28.60		P	10:35:11.559	-0.5	110.1		8.97		TAS		39.4	1.50	m_e mb	5.0
FLT1	28.31		P	10:35:08.613	-0.4	110.1		8.97		TAS		88.8	1.73	m_e mb	5.3
GEC2	25.49		P	10:34:44.537	1.0	110.1		8.97		TAS		27.5	1.56	m_e mb	4.8
GOR1	28.55		P	10:35:11.210	0.5	110.1		8.97		TAS		194.5	1.65	m_e mb	5.7
GRA1	27.31		L	10:49:32.626						T__		418.0	18.00	a_e Ms	4.0
IBBN	30.27		P	10:35:27.335	0.3	110.1		8.97		TAS		420.6	2.42	m_e mb	5.8
KAST	29.51		P	10:35:20.353	-0.2	110.1		8.97		TAS		31.6	1.37	m_e mb	5.0
MANZ	26.88		P	10:34:56.747	-0.9	110.1		8.97		TAS		60.7	3.15	m_e mb	4.8
MOX	27.42		L	10:49:23.862						T__		1160.3	19.30	a_e Ms	4.5
NRDL	29.00		P	10:35:15.513	0.2	110.1		8.97		TAS		89.5	1.81	m_e mb	5.3
RJOB	25.68		P	10:34:46.740		110.1		8.97		TAS		25.8	1.32	m_e mb	4.7
ROTZ	26.74		P	10:34:55.739	-0.5	110.1		8.97		TAS		22.2	1.68	m_e mb	4.6
TNS	29.18		P	10:35:17.678	-0.0	110.1		8.97		TAS		45.5	1.42	m_e mb	5.1
UBBA	28.43		P	10:35:10.856	-0.1	110.1		8.97		TAS		202.2	2.94	m_e mb	5.4
UBR	27.40		P	10:35:02.019		110.1		8.97		TAS		83.3	1.53	m_e mb	5.2
WET	26.10		P	10:34:49.654	0.8	110.1		8.97		TAS		31.1	1.44	m_e mb	4.7
WLF	30.45		P	10:35:27.989	-0.1	110.1		8.97		TAS		35.1	1.18	m_e mb	5.1

Event 90512001 Panama

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/12	19:24:58.86			9.6860	-81.8310				30.0			13		82.82	86.41	m i ke	BGR
OrigID 90512007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90512007
Ms	6.0		BGR	90512007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	82.96		P	19:37:20.315		278.6		5.04		TAS		30.7	1.94	m_e	mb	5.2
BRG	86.19		P	19:37:37.031	0.3	278.6		5.04		TAS		16.5	1.27	m_e	mb	5.0
CLL	85.53		P	19:37:33.755	0.1	278.6		5.04		TAS		16.2	1.12	m_e	mb	5.1
GEC2	86.41		P	19:37:38.047		278.6		5.04		TAS		6.5	1.16	m_e	mb	4.7
GRA1	84.66		P	19:37:29.701	0.3	278.6		5.04		TAS		41.5	1.75	m_e	mb	5.4
GRA1	84.66		L	20:10:15.583						T__		7710.0	21.30	a_e	Ms	6.1
MANZ	85.19		P	19:37:32.399	-0.5	278.6		5.04		TAS		24.7	2.50	m_e	mb	5.0
MOX	84.77		P	19:37:30.059	0.2	278.6		5.04		TAS		69.0	2.27	m_e	mb	5.5
MOX	84.77		L	20:11:22.705						T__		4800.1	20.70	a_e	Ms	5.9
RJOB	86.01		P	19:37:36.101		278.6		5.04		TAS		36.0	2.03	m_e	mb	5.2
ROTZ	85.28		P	19:37:32.964	-0.1	278.6		5.04		TAS		13.3	2.29	m_e	mb	4.8
TANN	85.34		P	19:37:32.964	0.1	278.6		5.04		TAS		20.9	1.42	m_e	mb	5.2
TNS	82.82		P	19:37:20.332	-0.2	278.6		5.04		TAS		141.7	2.79	m_e	mb	5.7
UBR	84.22		P	19:37:27.488		278.6		5.04		TAS		78.6	2.33	m_e	mb	5.5
WET	85.82		P	19:37:35.436		278.6		5.04		TAS		24.8	1.44	m_e	mb	5.1

Event 90513001 East of Severnaya Zemlya

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/13	00:43:33.00			79.4300	124.1100				10.0				14	45.52	45.52	m i ke	EMSC
OrigID 90513033																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90513007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	45.52		P	00:51:53.340		13.8		7.39		TAS		12.3	0.96	m_e	mb	4.9

Event 90514003 D'Entrecasteaux Islands, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/14	12:58:15.00			-4.0800	152.5900				10.0				22	121.57	126.43	m i ke	EMSC
OrigID 90514039																	

Magnitude	Err	Nsta	Author	OrigID
Ms	7.9		BGR	90514009

./bul1905.txt

Wed Jul 21 10:35:14 2021

20

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	122.66		PKPdf	13:17:20.118	-0.1	48.7		1.92		TAS				m_e	
BFO	126.37		PKPdf	13:17:26.791		48.7		1.92		TAS				m_e	
BRG	121.94		PKPdf	13:17:18.713	0.1	48.7		1.92		TAS				m_e	
BSEG	121.57		PKPdf	13:17:18.127	-0.1	48.7		1.92		TAS				m_e	
BUG	124.65		PKPdf	13:17:23.981	-0.1	48.7		1.92		TAS				m_e	
CLZ	122.99		PKPdf	13:17:21.010	0.2	48.7		1.92		TAS				m_e	
FLT1	122.27		PKPdf	13:17:19.064	-0.4	48.7		1.92		TAS				m_e	
FUR	125.02		PKPdf	13:17:24.567		48.7		1.92		TAS				m_e	
GEC2	123.33		PKPdf	13:17:21.523		48.7		1.92		TAS				m_e	
GOR1	121.79		PKPdf	13:17:18.595	0.0	48.7		1.92		TAS				m_e	
GRA1	124.04		L	14:17:57.669						T__		227351.0	19.90	a_e Ms	7.8
GTTG	123.38		PKPdf	13:17:21.640	0.1	48.7		1.92		TAS				m_e	
IBBN	123.81		PKPdf	13:17:22.342	-0.2	48.7		1.92		TAS				m_e	
MANZ	123.42		PKPdf	13:17:21.669	0.0	48.7		1.92		TAS				m_e	
MOX	123.22		PKPdf	13:17:21.171	0.6	48.7		1.92		TAS				m_e	
MOX	123.22		L	14:12:08.312						T__		292563.0	21.00	a_e Ms	7.9
NRDL	122.66		PKPdf	13:17:20.352	0.1	48.7		1.92		TAS				m_e	
RETH	122.82		PKPdf	13:17:20.586	0.0	48.7		1.92		TAS				m_e	
STU	125.65		PKPdf	13:17:25.855		48.7		1.92		TAS				m_e	
TANN	122.96		PKPdf	13:17:20.820	0.1	48.7		1.92		TAS				m_e	
UBBA	123.86		PKPdf	13:17:22.693	0.1	48.7		1.92		TAS				m_e	
UBR	125.93		PKPdf	13:17:26.089		48.7		1.92		TAS				m_e	
WET	123.57		PKPdf	13:17:21.991		48.7		1.92		TAS				m_e	
WLF	126.43		PKPdf	13:17:28.079	-0.1	48.7		1.92		TAS				m_e	

Event 90514004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/14	20:55:31.39			44.1980	147.7390				44.0				27	74.26	81.21	m i ke	BGR
OrigID 90514010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	90514010
Ms	4.6		BGR	90514010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	77.15		P	21:07:18.260	-0.1	30.2		5.49		TAS		90.3	1.12	m_e mb	5.8
BFO	81.21		P	21:07:40.225	0.1	30.2		5.49		TAS		43.4	0.93	m_e mb	5.5
BSEG	75.69		P	21:07:10.415	0.1	30.2		5.49		TAS		153.2	0.97	m_e mb	6.1
BUG	78.78		P	21:07:27.113	-0.1	30.2		5.49		TAS		110.2	1.05	m_e mb	5.8
CLL	77.11		P	21:07:17.812	-0.4	30.2		5.49		TAS		140.2	0.85	m_e mb	6.1
CLZ	77.49		P	21:07:20.725	0.5	30.2		5.49		TAS		341.0	1.42	m_e mb	6.3
FLT1	76.80		P	21:07:16.019	-0.5	30.2		5.49		TAS		139.6	0.98	m_e mb	6.0
FUR	80.39		P	21:07:36.303		30.2		5.49		TAS		120.0	0.89	m_e mb	5.8
GEC2	78.97		P	21:07:28.290	-0.2	30.2		5.49		TAS		34.1	1.00	m_e mb	5.3

./bul1905.txt

Wed Jul 21 10:35:14 2021

21

GOR1	76.21	P	21:07:13.441	0.2	30.2	5.49	TAS	196.7	1.22	m_e	mb	6.1
GRA1	79.09	P	21:07:29.467	0.4	30.2	5.49	TAS	133.9	0.82	m_e	mb	6.0
GRA1	79.09	L	21:47:32.462				T__	359.3	19.60	a_e	Ms	4.7
GTTG	77.88	P	21:07:22.519	0.2	30.2	5.49	TAS	133.5	1.01	m_e	mb	6.0
IBBN	77.87	P	21:07:22.294	0.1	30.2	5.49	TAS	123.8	0.98	m_e	mb	6.0
KAST	78.65	P	21:07:26.665	0.1	30.2	5.49	TAS	80.4	0.97	m_e	mb	5.7
MANZ	78.54	P	21:07:26.105	0.0	30.2	5.49	TAS	19.2	1.37	m_e	mb	5.0
MOX	78.14	P	21:07:23.863	0.0	30.2	5.49	TAS	108.2	1.28	m_e	mb	5.8
MOX	78.14	L	21:44:26.448				T__	292.2	21.90	a_e	Ms	4.6
NEUB	77.61	P	21:07:20.725	-0.2	30.2	5.49	TAS	275.5	1.36	m_e	mb	6.2
NRDL	77.01	P	21:07:17.588	0.0	30.2	5.49	TAS	133.3	1.43	m_e	mb	5.9
RETH	77.02	P	21:07:17.812	0.2	30.2	5.49	TAS	833.5	1.30	m_e	mb	6.7
RGN	74.26	P	21:07:02.235	-0.2	30.2	5.49	TAS	244.7	0.98	m_e	mb	6.2
ROTZ	78.70	P	21:07:27.225	0.3	30.2	5.49	TAS	17.7	1.15	m_e	mb	5.0
RUE	75.87	P	21:07:11.312	-0.1	30.2	5.49	TAS	231.2	1.18	m_e	mb	6.2
STU	80.54	P	21:07:36.863	-0.5	30.2	5.49	TAS	243.5	0.96	m_e	mb	6.2
TANN	78.06	P	21:07:23.415	0.0	30.2	5.49	TAS	143.5	1.86	m_e	mb	5.8
TNS	79.50	P	21:07:31.260	-0.0	30.2	5.49	TAS	149.2	1.25	m_e	mb	5.8
UBBA	78.50	P	21:07:25.656	-0.1	30.2	5.49	TAS	56.4	1.07	m_e	mb	5.6
WET	79.00	P	21:07:29.018	-0.2	30.2	5.49	TAS	86.0	0.92	m_e	mb	5.8

Event 90515003 Kyushu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/15	05:24:38.90			30.5780	129.8190				33.0			20		80.96	84.29	m i ke	BGR
OrigID 90515009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90515009
Ms	6.1		BGR	90515009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BSEG	80.96	P		05:36:47.249	-0.4	48.2		5.16		TAS		17.9	0.85	m_e	mb	5.1
BUG	84.01	P		05:37:02.669		48.2		5.16		TAS		14.0	1.09	m_e	mb	5.1
CLL	81.38	P		05:36:49.562	0.0	48.2		5.16		TAS		23.8	0.76	m_e	mb	5.3
CLZ	82.30	P		05:36:54.959	0.0	48.2		5.16		TAS		35.5	0.93	m_e	mb	5.5
FLT1	81.58	P		05:36:50.274	0.1	48.2		5.16		TAS		21.7	0.83	m_e	mb	5.3
GEC2	82.58	P		05:36:55.967	0.3	48.2		5.16		TAS		12.9	1.01	m_e	mb	5.1
GRA1	83.29	P		05:37:00.059		48.2		5.16		TAS		33.9	0.96	m_e	mb	5.5
GRA1	83.29	L		06:18:18.562						T__		9068.8	18.60	a_e	Ms	6.2
GTTG	82.69	P		05:36:56.679	-0.0	48.2		5.16		TAS		28.6	0.96	m_e	mb	5.5
IBBN	83.20	P		05:36:58.695		48.2		5.16		TAS		45.0	1.09	m_e	mb	5.6
KAST	83.64	P		05:37:01.246		48.2		5.16		TAS		13.7	1.02	m_e	mb	5.1
MANZ	82.66	P		05:36:56.620	-0.0	48.2		5.16		TAS		3.5	0.94	m_e	mb	4.6
MOX	82.48	P		05:36:55.493	-0.1	48.2		5.16		TAS		9.0	0.95	m_e	mb	4.9
MOX	82.48	L		06:18:49.762						T__		7225.2	19.90	a_e	Ms	6.0

./bul1905.txt

Wed Jul 21 10:35:14 2021

22

NEUB	82.05	P	05:36:53.239	0.1	48.2	5.16	TAS	40.7	0.88	m_e	mb	5.6
NRDL	82.00	P	05:36:52.883	-0.3	48.2	5.16	TAS	12.4	1.08	m_e	mb	5.0
RETH	82.18	P	05:36:53.654	0.3	48.2	5.16	TAS	84.1	1.15	m_e	mb	5.8
RJOB	83.75	P	05:37:02.373		48.2	5.16	TAS	11.7	0.83	m_e	mb	5.2
ROTZ	82.75	P	05:36:57.300	-0.4	48.2	5.16	TAS	4.8	0.94	m_e	mb	4.7
TANN	82.21	P	05:36:54.366	0.2	48.2	5.16	TAS	16.5	1.24	m_e	mb	5.0
TNS	84.29	P	05:37:04.686		48.2	5.16	TAS	10.6	0.81	m_e	mb	5.1
WET	82.81	P	05:36:57.450	-0.0	48.2	5.16	TAS	9.3	1.05	m_e	mb	5.0

Event 90516004 Nicaragua

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/16	16:22:15.03			12.8260	-86.4390				33.0			21		82.01	87.01	m i ke	BGR
90516010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	90516010
Ms	5.4		BGR	90516010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	84.31		P	16:34:43.472	0.0	284.1		5.00		TAS		68.8	1.81	m_e	mb	5.6
BFO	83.68		P	16:34:39.669		284.1		5.00		TAS		24.8	1.40	m_e	mb	5.2
BRG	86.60		P	16:34:54.615	0.1	284.1		5.00		TAS		40.4	1.61	m_e	mb	5.3
CLL	85.91		P	16:34:50.989	-0.1	284.1		5.00		TAS		64.0	1.92	m_e	mb	5.4
CLZ	84.19		P	16:34:42.853	-0.3	284.1		5.00		TAS		18.0	1.00	m_e	mb	5.2
FLT1	84.59		P	16:34:44.268	0.2	284.1		5.00		TAS		51.0	1.57	m_e	mb	5.5
GEC2	87.01		P	16:34:56.737		284.1		5.00		TAS		41.4	1.72	m_e	mb	5.3
GRA1	85.22		P	16:34:48.070	0.2	284.1		5.00		TAS		86.1	1.81	m_e	mb	5.7
GRA1	85.22		L	17:10:40.812						T__		2444.4	22.00	a_e	Ms	5.5
GTTG	84.01		P	16:34:41.792	-0.1	284.1		5.00		TAS		71.6	1.69	m_e	mb	5.6
MANZ	85.71		P	16:34:50.370	-0.1	284.1		5.00		TAS		13.5	1.83	m_e	mb	4.8
MOX	85.23		P	16:34:47.805	0.0	284.1		5.00		TAS		48.1	1.67	m_e	mb	5.5
MOX	85.23		L	17:12:23.026						T__		1299.9	21.00	a_e	Ms	5.3
NRDL	83.88		P	16:34:41.172	-0.4	284.1		5.00		TAS		21.5	1.16	m_e	mb	5.3
RETH	83.39		P	16:34:38.873	0.0	284.1		5.00		TAS		358.6	1.92	m_e	mb	6.3
RJOB	86.73		P	16:34:55.322		284.1		5.00		TAS		37.2	1.82	m_e	mb	5.2
ROTZ	85.82		P	16:34:51.077	-0.5	284.1		5.00		TAS		11.0	1.66	m_e	mb	4.7
TANN	85.81		P	16:34:50.900	0.2	284.1		5.00		TAS		64.1	1.65	m_e	mb	5.5
TNS	83.36		P	16:34:38.519	0.3	284.1		5.00		TAS		89.2	1.97	m_e	mb	5.7
UBBA	84.20		P	16:34:42.764	0.2	284.1		5.00		TAS		57.8	1.93	m_e	mb	5.5
UBR	84.98		P	16:34:46.832		284.1		5.00		TAS		90.9	1.98	m_e	mb	5.7
WET	86.41		P	16:34:54.077		284.1		5.00		TAS		92.8	1.72	m_e	mb	5.6
WLF	82.01		P	16:34:31.798	-0.1	284.1		5.00		TAS		24.9	1.17	m_e	mb	5.2

Event 90517004 Nicobar Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/17	19:05:26.63			7.3840	93.8980				33.0					79.68	79.68	m i ke	BGR
OrigID 90517010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90517010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.68		P	19:17:31.160		103.7		4.61		TAS		10.5	1.22	m_e mb	4.8

Event 90517005 Northeastern China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/17	22:25:03.59			46.0730	124.5940				33.0				21	65.81	70.79	m i ke	BGR
OrigID 90517011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90517011
Ms	5.0		BGR	90517011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	66.97		P	22:35:50.921	-0.6	43.3		6.27		TAS		14.7	1.15	m_e mb	5.1
BFO	70.79		P	22:36:14.666		43.3		6.27		TAS		26.3	1.20	m_e mb	5.2
BRG	66.43		P	22:35:47.532	0.2	43.3		6.27		TAS		12.9	1.09	m_e mb	5.1
BSEG	65.81		P	22:35:43.822	0.1	43.3		6.27		TAS		20.4	1.26	m_e mb	5.2
BUG	68.91		P	22:36:02.910	0.1	43.3		6.27		TAS		21.2	1.30	m_e mb	5.2
CLL	66.54		P	22:35:47.820	0.0	43.3		6.27		TAS		31.2	1.42	m_e mb	5.3
CLZ	67.31		P	22:35:53.446	-0.2	43.3		6.27		TAS		30.6	1.38	m_e mb	5.3
FLT1	66.58		P	22:35:47.892	-0.1	43.3		6.27		TAS		37.0	1.45	m_e mb	5.4
FUR	69.59		P	22:36:07.495		43.3		6.27		TAS		24.7	1.20	m_e mb	5.2
GEC2	67.98		P	22:35:57.340		43.3		6.27		TAS		10.7	1.25	m_e mb	4.9
GOR1	66.08		P	22:35:45.801	0.1	43.3		6.27		TAS		34.8	1.21	m_e mb	5.5
GRA1	68.50		P	22:36:01.234		43.3		6.27		TAS		51.5	1.39	m_e mb	5.6
GRA1	68.50		L	23:09:19.994						T__		998.3	20.50	a_e Ms	5.0
GTTG	67.69		P	22:35:55.717	-0.1	43.3		6.27		TAS		28.6	1.31	m_e mb	5.3
MANZ	67.89		P	22:35:56.907		43.3		6.27		TAS		3.0	1.38	m_e mb	4.3
MOX	67.63		P	22:35:55.176	-0.4	43.3		6.27		TAS		14.2	1.23	m_e mb	5.1
MOX	67.63		L	23:08:42.350						T__		836.0	19.20	a_e Ms	5.0
NRDL	66.94		P	22:35:50.849	-0.1	43.3		6.27		TAS		19.9	1.21	m_e mb	5.2
RETH	67.08		P	22:35:51.643	-0.7	43.3		6.27		TAS		97.0	1.31	m_e mb	5.9
RJOB	69.20		P	22:36:05.231		43.3		6.27		TAS		13.3	1.12	m_e mb	5.1
ROTZ	68.00		P	22:35:57.701		43.3		6.27		TAS		7.5	1.44	m_e mb	4.7
TANN	67.42		P	22:35:54.023	-0.0	43.3		6.27		TAS		9.9	1.15	m_e mb	4.9

WET 68.15 P 22:35:58.710 43.3 6.27 TAS 11.5 1.22 m_e mb 5.0

Event 90517006 New Britain, Papua New Guinea, region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2019/05/17 22:37:48.80 -4.5800 152.9900 31.0 13 121.63 127.05 m i ke EMSC
90517038

Magnitude Err Nsta Author OrigID
Ms 5.8 BGR 90517012

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. It lists various station data points including ASSE, BFO, BRG, BSEG, BUG, CLL, CLZ, FLT1, FUR, GEC2, GOR1, GRA1, GTTG, IBBN, KAST, MANZ, MOX, NEUB, NRDL, RETH, RJOB, ROTZ, and RUE.

./bul1905.txt

Wed Jul 21 10:35:14 2021

25

STU	126.27	PKPdf	22:56:49.893		49.5	1.82	TAS	m_e
STU	126.27	pPKPdf	22:56:57.665	-0.3	50.4	1.94	TAS	a_e
TANN	123.59	pPKPdf	22:56:52.565	-0.0	50.4	1.94	TAS	a_e
TNS	125.62	PKPdf	22:56:48.753		49.5	1.82	TAS	m_e
TNS	125.62	pPKPdf	22:56:56.465	0.0	50.4	1.94	TAS	m_e
UBBA	124.49	pPKPdf	22:56:54.219	-0.0	50.4	1.94	TAS	m_e
UBR	126.56	PKPdf	22:56:50.326		49.5	1.82	TAS	m_e
UBR	126.56	pPKPdf	22:56:58.015	0.6	50.4	1.94	TAS	a_e
WET	124.20	PKPdf	22:56:46.046		49.5	1.82	TAS	m_e
WET	124.20	pPKPdf	22:56:53.815	-0.1	50.4	1.94	TAS	m_e
WLF	127.05	pPKPdf	22:56:59.915		50.4	1.94	TAS	a_e

Event 90518001 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/18	14:58:33.20			-5.2600	152.6500				29.0			25		122.65	127.50	m i ke	EMSC
90518033																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.7		BGR	90518007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	123.73		PKPdf	15:17:29.412	-0.2					T__					m_e
BFO	127.42		PKPdf	15:17:36.171						T__					m_e
BRG	122.99		PKPdf	15:17:27.954	0.2					T__					m_e
BSEG	122.65		PKPdf	15:17:27.674	0.1					T__					m_e
BUG	125.73		PKPdf	15:17:33.233	0.0					T__					m_e
CLL	123.18		PKPdf	15:17:28.099	0.0					T__					m_e
CLZ	124.06		PKPdf	15:17:30.423	0.1					T__					m_e
FLT1	123.34		PKPdf	15:17:28.449	-0.3					T__					m_e
GEC2	124.37		PKPdf	15:17:30.625						T__					m_e
GRA1	125.09		PKPdf	15:17:32.136	-0.2					T__					m_e
GRA1	125.09		L	16:13:21.902						T__		182.1	20.70	a_e Ms	4.7
GTTG	124.45		PKPdf	15:17:31.047	-0.1					T__					m_e
IBBN	124.90		PKPdf	15:17:31.714	0.1					T__					m_e
KAST	125.39		PKPdf	15:17:32.869	0.0					T__					m_e
MANZ	124.46		PKPdf	15:17:30.947	0.1					T__					m_e
MOX	124.28		PKPdf	15:17:30.471	0.5					T__					m_e
MOX	124.28		L	16:14:31.599						T__		134.2	21.00	a_e Ms	4.6
NEUB	123.84		PKPdf	15:17:29.501	0.1					T__					m_e
NRDL	123.74		PKPdf	15:17:29.702	-0.1					T__					m_e
RETH	123.90		PKPdf	15:17:29.940	-0.3					T__					m_e
ROTZ	124.55		PKPdf	15:17:30.846	0.1					T__					m_e
STU	126.70		PKPdf	15:17:35.231						T__					m_e
TANN	124.01		PKPdf	15:17:29.938	0.1					T__					m_e
TNS	126.06		PKPdf	15:17:34.124	0.3					T__					m_e

UBR	126.96	PKPdf	15:17:35.386		T__	m_e
WET	124.61	PKPdf	15:17:31.313		T__	m_e
WLF	127.50	PKPdf	15:17:37.341	-0.4	T__	m_e

Event 90519001 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/19	01:23:32.71			-20.6700	171.0920				33.0			31		143.69	149.11	m i ke	BGR
90519007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.2		BGR	90519007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.10		PKPbc	01:43:05.729	0.6	36.1		2.93		TAS				m_e	
BFO	149.11		PKPdf	01:43:10.994		39.0		1.58		TAS				m_e	
BFO	149.11		PKPbc	01:43:16.474		36.1		2.93		TAS				m_e	
BRG	144.91		PKPbc	01:43:04.824	-0.2	36.1		2.93		TAS				m_e	
BSEG	143.69		PKPbc	01:43:00.889	-0.8	36.1		2.93		TAS				m_e	
BUG	146.78		PKPdf	01:43:07.625		39.0		1.58		TAS				m_e	
BUG	146.78		PKPbc	01:43:10.516	0.4	36.1		2.93		TAS				m_e	
CLL	144.93		PKPbc	01:43:04.773	0.1	36.1		2.93		TAS				m_e	
CLZ	145.44		PKPdf	01:43:05.840	0.2	39.0		1.58		TAS				m_e	
CLZ	145.44		PKPbc	01:43:07.133	0.3	36.1		2.93		TAS				m_e	
FLT1	144.74		PKPbc	01:43:04.183	-0.1	36.1		2.93		TAS				m_e	
FUR	148.11		PKPdf	01:43:09.589		39.0		1.58		TAS				m_e	
FUR	148.11		PKPbc	01:43:14.060	-0.1	36.1		2.93		TAS				m_e	
GEC2	146.56		PKPdf	01:43:07.209	-0.3	39.0		1.58		TAS				m_e	
GEC2	146.56		PKPbc	01:43:09.900	0.3	36.1		2.93		TAS				m_e	
GOR1	144.17		PKPbc	01:43:02.649	-0.6	36.1		2.93		TAS				m_e	
GRA1	146.91		PKPdf	01:43:07.785		39.0		1.58		TAS				m_e	
GRA1	146.91		PKPbc	01:43:11.167	0.3	36.1		2.93		TAS				m_e	
GRA1	146.91		PP	01:46:45.841						T__				m_e	
GRA1	146.91		L	02:52:14.623						T__		4368.9	20.40	a_e Ms	6.2
GTTG	145.83		PKPdf	01:43:06.268	0.0	39.0		1.58		TAS				m_e	
GTTG	145.83		PKPbc	01:43:08.264	0.5	36.1		2.93		TAS				m_e	
HLG	144.18		PKPbc	01:43:02.793	-0.3	36.1		2.93		TAS				m_e	
IBBN	145.87		PKPdf	01:43:06.375	-0.3	39.0		1.58		TAS				m_e	
IBBN	145.87		PKPbc	01:43:08.229	0.2	36.1		2.93		TAS				m_e	
KAST	146.63		PKPdf	01:43:07.589		39.0		1.58		TAS				m_e	
KAST	146.63		PKPbc	01:43:10.394	0.3	36.1		2.93		TAS				m_e	
MANZ	146.33		PKPdf	01:43:06.907	0.1	39.0		1.58		TAS				m_e	
MANZ	146.33		PKPbc	01:43:09.499	0.3	36.1		2.93		TAS				m_e	
MOX	145.99		PKPdf	01:43:06.310	-0.0	39.0		1.58		TAS				m_e	
MOX	145.99		PKPbc	01:43:08.271	0.5	36.1		2.93		TAS				m_e	
MOX	145.99		L	02:51:46.042						T__		4110.0	21.40	a_e Ms	6.2

./bul1905.txt

Wed Jul 21 10:35:14 2021

27

NEUB	145.49	PKPdf	01:43:05.474	-0.4	39.0	1.58	TAS	m_e
NEUB	145.49	PKPbc	01:43:06.897	0.6	36.1	2.93	TAS	m_e
NRDL	144.98	PKPbc	01:43:05.381	0.0	36.1	2.93	TAS	m_e
RETH	145.01	PKPbc	01:43:05.461	0.2	36.1	2.93	TAS	m_e
RJOB	147.80	PKPdf	01:43:08.814		39.0	1.58	TAS	m_e
RJOB	147.80	PKPbc	01:43:12.814	-0.2	36.1	2.93	TAS	m_e
ROTZ	146.47	PKPdf	01:43:07.117	-0.1	39.0	1.58	TAS	m_e
ROTZ	146.47	PKPbc	01:43:09.833	0.1	36.1	2.93	TAS	m_e
RUE	143.71	PKPbc	01:43:00.604	-0.2	36.1	2.93	TAS	m_e
STU	148.43	PKPdf	01:43:10.341		39.0	1.58	TAS	m_e
STU	148.43	PKPbc	01:43:15.110	0.2	36.1	2.93	TAS	m_e
TANN	145.85	PKPdf	01:43:06.155	0.1	39.0	1.58	TAS	m_e
TANN	145.85	PKPbc	01:43:08.084	0.1	36.1	2.93	TAS	m_e
TNS	147.47	PKPdf	01:43:08.966		39.0	1.58	TAS	m_e
TNS	147.47	PKPbc	01:43:12.801	-0.7	36.1	2.93	TAS	m_e
UBBA	146.43	PKPdf	01:43:06.981	0.6	39.0	1.58	TAS	m_e
UBBA	146.43	PKPbc	01:43:09.656	0.4	36.1	2.93	TAS	m_e
UBR	148.97	PKPdf	01:43:10.842		39.0	1.58	TAS	m_e
UBR	148.97	PKPbc	01:43:16.069	-0.7	36.1	2.93	TAS	m_e
WET	146.68	PKPdf	01:43:07.570		39.0	1.58	TAS	m_e
WET	146.68	PKPbc	01:43:10.420	-0.2	36.1	2.93	TAS	m_e
WLF	148.68	PKPdf	01:43:11.515		39.0	1.58	TAS	m_e
WLF	148.68	PKPbc	01:43:16.467	-0.7	36.1	2.93	TAS	m_e

Event 90519003 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/19	14:27:12.54			-21.5100	170.3600				33.0			26		145.26	149.61	m i ke	BGR
90519009																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.9		BGR	90519009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	145.63		PKPbc	14:46:47.180	-0.0	36.6		2.84		TAS					m_e	
BFO	149.61		PKPbc	14:46:58.075		36.6		2.84		TAS					m_e	
BRG	145.36		PKPbc	14:46:46.230	0.4	36.6		2.84		TAS					m_e	
BUG	147.34		PKPbc	14:46:52.104	-0.1	36.6		2.84		TAS					m_e	
CLL	145.41		PKPbc	14:46:46.215	-0.2	36.6		2.84		TAS					a_e	
CLZ	145.97		PKPbc	14:46:48.665	0.3	36.6		2.84		TAS					a_e	
FLT1	145.26		PKPbc	14:46:45.665	-0.1	36.6		2.84		TAS					a_e	
FUR	148.55		PKPbc	14:46:55.575		36.6		2.84		TAS					m_e	
GEC2	146.98		PKPbc	14:46:51.415	0.3	36.6		2.84		TAS					m_e	
GRA1	147.38		PKPbc	14:46:52.791	0.5	36.6		2.84		TAS					m_e	
GRA1	147.38		L	15:56:14.429						T__		2050.3	20.50		a_e Ms	5.9
GTTG	146.36		PKPbc	14:46:49.802	0.1	36.6		2.84		TAS					m_e	

./bul1905.txt

Wed Jul 21 10:35:14 2021

28

IBBN	146.44	PKPbc	14:46:49.615	0.2	36.6	2.84	TAS	a_e										
KAST	147.18	PKPbc	14:46:51.815	0.2	36.6	2.84	TAS	m_e										
MANZ	146.79	PKPbc	14:46:50.965	-0.2	36.6	2.84	TAS	a_e										
MOX	146.47	PKPbc	14:46:49.655	0.0	36.6	2.84	TAS	m_e										
MOX	146.47	L	15:55:25.889				T__				1976.5	20.70	a_e Ms				5.9	
NEUB	145.98	PKPbc	14:46:48.532	0.2	36.6	2.84	TAS	m_e										
NRDL	145.52	PKPbc	14:46:46.979	0.4	36.6	2.84	TAS	m_e										
RETH	145.56	PKPbc	14:46:47.015	0.3	36.6	2.84	TAS	a_e										
RJOB	148.21	PKPbc	14:46:55.229	-0.5	36.6	2.84	TAS	m_e										
ROTZ	146.93	PKPbc	14:46:51.249	0.5	36.6	2.84	TAS	m_e										
STU	148.92	PKPbc	14:46:56.507		36.6	2.84	TAS	m_e										
TNS	147.99	PKPbc	14:46:54.247	-0.8	36.6	2.84	TAS	m_e										
UBBA	146.94	PKPbc	14:46:51.242	0.2	36.6	2.84	TAS	m_e										
UBR	149.42	PKPbc	14:46:57.303		36.6	2.84	TAS	m_e										
WET	147.12	PKPbc	14:46:51.864	-0.1	36.6	2.84	TAS	m_e										
WLF	149.24	PKPbc	14:46:58.099		36.6	2.84	TAS	m_e										

Event 90519004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/19	14:56:49.40			-21.7800	170.5300				33.0			25		145.01	149.92	m i ke	BGR
90519010																	

Magnitude Err Nsta Author OrigID
Ms 6.2 BGR 90519010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.94		PKPbc	15:16:24.986	-0.3	36.3		2.93		TAS				m_e	
BFO	149.92		PKPbc	15:16:35.824		36.3		2.93		TAS				m_e	
BRG	145.67		PKPbc	15:16:24.240	0.2	36.3		2.93		TAS				m_e	
BUG	147.65		PKPbc	15:16:29.941	-0.0	36.3		2.93		TAS				m_e	
CLL	145.72		PKPbc	15:16:24.067	0.1	36.3		2.93		TAS				m_e	
CLZ	146.28		PKPbc	15:16:26.328	0.0	36.3		2.93		TAS				m_e	
FLT1	145.57		PKPbc	15:16:23.339	-0.2	36.3		2.93		TAS				m_e	
FUR	148.87		PKPbc	15:16:33.427		36.3		2.93		TAS				m_e	
GEC2	147.29		PKPbc	15:16:29.072		36.3		2.93		TAS				m_e	
GOR1	145.01		PKPbc	15:16:21.692	-0.0	36.3		2.93		TAS				m_e	
GRA1	147.69		PKPbc	15:16:30.536	-0.8	36.3		2.93		TAS				m_e	
GRA1	147.69		L	16:26:43.155						T__		4127.9	19.50	a_e Ms	6.2
GTTG	146.66		PKPbc	15:16:27.514	0.3	36.3		2.93		TAS				m_e	
IBBN	146.75		PKPbc	15:16:27.486	0.4	36.3		2.93		TAS				m_e	
KAST	147.48		PKPbc	15:16:29.566	0.2	36.3		2.93		TAS				m_e	
MANZ	147.11		PKPbc	15:16:28.588	0.1	36.3		2.93		TAS				m_e	
MOX	146.78		PKPbc	15:16:27.669	0.4	36.3		2.93		TAS				m_e	
MOX	146.78		L	16:25:04.971						T__		3819.2	20.80	a_e Ms	6.2
NEUB	146.29		PKPbc	15:16:26.229	0.4	36.3		2.93		TAS				m_e	

./bul1905.txt

Wed Jul 21 10:35:14 2021

29

NRDL	145.83	PKPbc	15:16:24.498	0.1	36.3	2.93	TAS	m_e
RETH	145.87	PKPbc	15:16:24.742	-0.5	36.3	2.93	TAS	m_e
ROTZ	147.24	PKPbc	15:16:29.073	-0.1	36.3	2.93	TAS	m_e
STU	149.23	PKPbc	15:16:34.214		36.3	2.93	TAS	m_e
TNS	148.30	PKPbc	15:16:32.244	0.4	36.3	2.93	TAS	m_e
UBBA	147.25	PKPbc	15:16:28.879	0.3	36.3	2.93	TAS	m_e
WET	147.43	PKPbc	15:16:29.621	-0.2	36.3	2.93	TAS	m_e
WLF	149.55	PKPbc	15:16:35.995	-0.4	36.3	2.93	TAS	m_e

Event 90519005 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/19	15:48:02.67			55.5010	166.2480				33.0			22		69.15	75.25	m i ke	BGR
OrigID 90519011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90519011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.89		P	15:59:37.851		14.5		5.94		TAS		3.7	0.77	m_e mb	4.5
BRG	71.52		P	15:59:17.771	-0.1	14.5		5.94		TAS		4.7	0.95	m_e mb	4.6
BSEG	69.15		P	15:59:04.113	0.1	14.5		5.94		TAS		11.9	1.01	m_e mb	5.1
BUG	72.01		P	15:59:20.885	0.2	14.5		5.94		TAS		5.9	0.84	m_e mb	4.7
CLL	71.26		P	15:59:16.236	0.1	14.5		5.94		TAS		7.3	0.99	m_e mb	4.8
CLZ	71.17		P	15:59:16.306	0.1	14.5		5.94		TAS		12.2	1.10	m_e mb	5.0
FLT1	70.56		P	15:59:11.807	0.2	14.5		5.94		TAS		8.8	1.34	m_e mb	4.7
GEC2	73.51		P	15:59:30.153		14.5		5.94		TAS		6.4	0.94	m_e mb	4.6
GOR1	69.91		P	15:59:08.719	-0.7	14.5		5.94		TAS		18.0	1.29	m_e mb	5.0
GRA1	73.12		P	15:59:28.111		14.5		5.94		TAS		16.2	1.21	m_e mb	5.0
IBBN	71.09		P	15:59:15.776	-0.0	14.5		5.94		TAS		9.2	0.87	m_e mb	4.9
KAST	72.08		P	15:59:21.543	0.4	14.5		5.94		TAS		4.8	1.00	m_e mb	4.6
MANZ	72.69		P	15:59:25.022	-0.3	14.5		5.94		TAS		0.9	0.85	m_e mb	3.9
MOX	72.13		P	15:59:21.859	0.5	14.5		5.94		TAS		5.3	0.88	m_e mb	4.7
NRDL	70.58		P	15:59:12.253	-0.4	14.5		5.94		TAS		5.9	0.98	m_e mb	4.7
RETH	70.45		P	15:59:11.824	0.3	14.5		5.94		TAS		24.6	1.09	m_e mb	5.2
ROTZ	72.88		P	15:59:26.639	-0.3	14.5		5.94		TAS		1.8	1.09	m_e mb	4.1
STU	74.34		P	15:59:34.581		14.5		5.94		TAS		12.8	0.67	m_e mb	5.1
TNS	73.03		P	15:59:27.268	-0.3	14.5		5.94		TAS		6.4	0.95	m_e mb	4.7
UBBA	72.22		P	15:59:22.171	0.2	14.5		5.94		TAS		4.4	1.01	m_e mb	4.5
UBR	75.25		P	15:59:40.025		14.5		5.94		TAS		10.3	1.17	m_e mb	4.8
WET	73.37		P	15:59:29.661		14.5		5.94		TAS		6.2	0.84	m_e mb	4.8

Event 90519006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/19	18:51:07.46			-19.4680	-177.1070				400.0			24		145.12	151.25	m i ke	BGR
OrigID 90519012																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.84		PKPbc	19:10:03.323	0.0	15.4		2.59		TAS					m_e
BFO	150.87		PKPbc	19:10:13.476		15.4		2.59		TAS					m_e
BRG	147.46		PKPbc	19:10:04.923	0.3	15.4		2.59		TAS					m_e
BSEG	145.12		PKPbc	19:09:58.374	-0.1	15.4		2.59		TAS					m_e
BUG	147.91		PKPbc	19:10:06.222	-0.2	15.4		2.59		TAS					m_e
CLL	147.24		PKPbc	19:10:04.198	0.2	15.4		2.59		TAS					m_e
CLZ	147.16		PKPbc	19:10:04.513	0.1	15.4		2.59		TAS					m_e
FLT1	146.56		PKPbc	19:10:02.189	-0.1	15.4		2.59		TAS					m_e
FUR	150.58		PKPbc	19:10:12.802		15.4		2.59		TAS					m_e
GEC2	149.42		PKPbc	19:10:10.113		15.4		2.59		TAS					m_e
GOR1	145.91		PKPbc	19:10:00.682	-0.0	15.4		2.59		TAS					m_e
IBBN	147.01		PKPbc	19:10:03.871	-0.0	15.4		2.59		TAS					m_e
KAST	148.03		PKPbc	19:10:06.466	0.2	15.4		2.59		TAS					m_e
MANZ	148.67		PKPbc	19:10:08.359	-0.3	15.4		2.59		TAS					m_e
MOX	148.13		PKPbc	19:10:06.709	0.4	15.4		2.59		TAS					m_e
NEUB	147.57		PKPbc	19:10:05.215	0.4	15.4		2.59		TAS					m_e
NRDL	146.56		PKPbc	19:10:02.468	0.1	15.4		2.59		TAS					m_e
RJOB	150.67		PKPbc	19:10:12.680		15.4		2.59		TAS					m_e
ROTZ	148.87		PKPbc	19:10:08.799	-0.1	15.4		2.59		TAS					m_e
TNS	149.00		PKPbc	19:10:09.134	0.1	15.4		2.59		TAS					m_e
UBBA	148.21		PKPbc	19:10:06.631	0.4	15.4		2.59		TAS					m_e
UBR	151.25		PKPbc	19:10:14.185		15.4		2.59		TAS					m_e
WET	149.32		PKPbc	19:10:10.120		15.4		2.59		TAS					m_e
WLF	149.76		PKPbc	19:10:11.543	-0.6	15.4		2.59		TAS					m_e

Event 90519007 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/19	19:48:45.53			-21.6390	171.1800				33.0			18		145.67	150.03	m i ke	BGR
OrigID 90519013																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.03		PKPbc	20:08:32.771		36.7		2.81		TAS					m_e
BRG	145.81		PKPbc	20:08:21.225	0.4	36.7		2.81		TAS					m_e
CLL	145.85		PKPbc	20:08:21.225	-0.1	36.7		2.81		TAS					m_e
CLZ	146.37		PKPbc	20:08:23.525	0.2	36.7		2.81		TAS					m_e

FLT1	145.67	PKPbc	20:08:20.634	0.1	36.7	2.81	TAS	m_e
GEC2	147.46	PKPbc	20:08:26.417		36.7	2.81	TAS	m_e
GTTG	146.76	PKPbc	20:08:24.631	0.2	36.7	2.81	TAS	m_e
IBBN	146.81	PKPbc	20:08:24.577	0.0	36.7	2.81	TAS	m_e
KAST	147.57	PKPbc	20:08:26.750		36.7	2.81	TAS	m_e
MANZ	147.24	PKPbc	20:08:25.891	-0.5	36.7	2.81	TAS	m_e
MOX	146.91	PKPbc	20:08:24.643	0.4	36.7	2.81	TAS	m_e
NEUB	146.41	PKPbc	20:08:23.263	0.1	36.7	2.81	TAS	m_e
NRDL	145.91	PKPbc	20:08:21.620	0.1	36.7	2.81	TAS	m_e
ROTZ	147.37	PKPbc	20:08:26.220		36.7	2.81	TAS	m_e
STU	149.35	PKPbc	20:08:31.469		36.7	2.81	TAS	m_e
UBR	149.88	PKPbc	20:08:32.475		36.7	2.81	TAS	m_e
WET	147.58	PKPbc	20:08:26.745		36.7	2.81	TAS	m_e
WLF	149.62	PKPbc	20:08:32.859		36.7	2.81	TAS	m_e

Event 90520001 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/20	06:02:14.40			-6.8200	154.6500				10.0			26		124.90	129.74	m i ke	EMSC
OrigID 90520033																	

Magnitude Err Nsta Author OrigID
 Ms 4.7 BGR 90520007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	126.01		PKPpdf	06:21:17.705	-0.1	48.2		1.91		TAS				m_e	
BFO	129.74		PKPpdf	06:21:24.554		48.2		1.91		TAS				m_e	
BRG	125.32		PKPpdf	06:21:16.340	0.2	48.2		1.91		TAS				m_e	
BSEG	124.90		PKPpdf	06:21:15.505	-0.1	48.2		1.91		TAS				m_e	
BUG	127.99		PKPpdf	06:21:21.491	0.0	48.2		1.91		TAS				m_e	
CLL	125.50		PKPpdf	06:21:16.473	-0.0	48.2		1.91		TAS				m_e	
CLZ	126.35		PKPpdf	06:21:18.506	-0.2	48.2		1.91		TAS				m_e	
FLT1	125.62		PKPpdf	06:21:16.596	0.3	48.2		1.91		TAS				m_e	
FUR	128.40		PKPpdf	06:21:22.361		48.2		1.91		TAS				m_e	
GEC2	126.73		PKPpdf	06:21:19.184	-0.2	48.2		1.91		TAS				m_e	
GOR1	125.14		PKPpdf	06:21:16.350	0.2	48.2		1.91		TAS				m_e	
GRA1	127.42		PKPpdf	06:21:20.600	0.1	48.2		1.91		TAS				m_e	
GRA1	127.42		L	07:15:41.945						T_		133.5	19.60	a_e Ms	4.6
GTTG	126.74		PKPpdf	06:21:19.411	0.1	48.2		1.91		TAS				m_e	
IBBN	127.15		PKPpdf	06:21:20.045	0.1	48.2		1.91		TAS				m_e	
KAST	127.67		PKPpdf	06:21:21.032	-0.1	48.2		1.91		TAS				m_e	
MANZ	126.79		PKPpdf	06:21:19.368	0.1	48.2		1.91		TAS				m_e	
MOX	126.59		PKPpdf	06:21:18.691	0.2	48.2		1.91		TAS				m_e	
MOX	126.59		L	07:23:31.400						T_		200.8	22.00	a_e Ms	4.8
NEUB	126.15		PKPpdf	06:21:17.991	0.1	48.2		1.91		TAS				m_e	
NRDL	126.01		PKPpdf	06:21:18.013	-0.4	48.2		1.91		TAS				m_e	

./bul1905.txt

Wed Jul 21 10:35:14 2021

32

RETH	126.16	PKPdf	06:21:18.013	-0.0	48.2	1.91	TAS	m_e
RJOB	127.89	PKPdf	06:21:20.766		48.2	1.91	TAS	m_e
ROTZ	126.89	PKPdf	06:21:19.430	0.2	48.2	1.91	TAS	m_e
STU	129.02	PKPdf	06:21:23.686		48.2	1.91	TAS	m_e
TNS	128.35	PKPdf	06:21:22.333	0.3	48.2	1.91	TAS	m_e
UBR	129.31	PKPdf	06:21:23.774		48.2	1.91	TAS	m_e
WET	126.96	PKPdf	06:21:19.738	-0.5	48.2	1.91	TAS	m_e

Event 90520002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/20	19:54:46.81			-20.9150	-176.7130				33.0			24		146.60	152.73	m i ke	BGR
90520008																	

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
ASSE	148.32		PKPbc	20:14:29.029	0.1	15.2		2.51		TAS					m_e
BFO	152.35		PKPbc	20:14:38.831		15.2		2.51		TAS					m_e
BRG	148.95		PKPbc	20:14:30.757	0.4	15.2		2.51		TAS					m_e
BSEG	146.60		PKPbc	20:14:24.204	-0.2	15.2		2.51		TAS					m_e
CLL	148.73		PKPbc	20:14:30.064	0.2	15.2		2.51		TAS					m_e
CLZ	148.64		PKPbc	20:14:30.130	0.1	15.2		2.51		TAS					m_e
FLT1	148.04		PKPbc	20:14:28.005	0.1	15.2		2.51		TAS					m_e
GEC2	150.91		PKPbc	20:14:35.620		15.2		2.51		TAS					m_e
GRA1	150.60		PKPbc	20:14:35.182		15.2		2.51		TAS					m_e
GTTG	148.99		PKPbc	20:14:30.940	0.2	15.2		2.51		TAS					m_e
KAST	149.51		PKPbc	20:14:32.210	0.3	15.2		2.51		TAS					m_e
MANZ	150.16		PKPbc	20:14:34.002	-0.4	15.2		2.51		TAS					m_e
MOX	149.61		PKPbc	20:14:32.432	0.0	15.2		2.51		TAS					m_e
NEUB	149.06		PKPbc	20:14:30.984	0.3	15.2		2.51		TAS					m_e
NRDL	148.04		PKPbc	20:14:28.171	0.3	15.2		2.51		TAS					m_e
RETH	147.89		PKPbc	20:14:27.953	-0.0	15.2		2.51		TAS					m_e
RJOB	152.16		PKPbc	20:14:38.183		15.2		2.51		TAS					m_e
ROTZ	150.35		PKPbc	20:14:34.413	-0.6	15.2		2.51		TAS					m_e
STU	151.81		PKPbc	20:14:37.751		15.2		2.51		TAS					m_e
TANN	149.68		PKPbc	20:14:32.749	-0.0	15.2		2.51		TAS					m_e
TNS	150.47		PKPbc	20:14:34.771	-0.1	15.2		2.51		TAS					m_e
UBR	152.73		PKPbc	20:14:39.650		15.2		2.51		TAS					m_e
WET	150.81		PKPbc	20:14:35.348		15.2		2.51		TAS					m_e
WLF	151.22		PKPbc	20:14:37.072	-0.5	15.2		2.51		TAS					m_e

Event 90522003 Andaman Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/22	00:39:34.36			13.2900	92.8000				40.8	1.6		31		72.79	77.84	m i ke	BGR
90522009																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.2		BGR	90522009
MBB	6.4		BGR	90522009
Ms	5.3		BGR	90522009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	74.81		P	00:51:10.295	0.1	88.0		5.77		TAS		203.1	1.25	a_e	MBB 6.3
ASSE	74.81		pP	00:51:21.507	0.0	87.6		5.75		TAS				m_e	
BFO	76.54		P	00:51:20.095	-0.1	88.0		5.77		TAS		169.0	1.43	a_e	MBB 6.1
BFO	76.54		pP	00:51:31.743		87.6		5.75		TAS				m_e	
BRG	72.79		P	00:50:58.895	-0.2	88.0		5.77		TAS		190.0	0.87	a_e	MBB 6.5
BRG	72.79		pP	00:51:10.645	-0.2	87.6		5.75		TAS				m_e	
BRG	72.79		PcP	00:51:14.227						T__				m_e	
BSEG	74.96		P	00:51:11.645	0.0	88.0		5.77		TAS		332.0	0.93	a_e	MBB 6.5
BSEG	74.96		pP	00:51:23.259	0.2	87.6		5.75		TAS				m_e	
BUG	76.96		P	00:51:22.895	-0.4	88.0		5.77		TAS		250.3	1.03	a_e	MBB 6.5
BUG	76.96		pP	00:51:34.676	-0.1	87.6		5.75		TAS				m_e	
CLL	73.38		P	00:51:01.995	0.0	88.0		5.77		TAS		189.5	1.12	a_e	MBB 6.4
CLL	73.38		pP	00:51:13.828	-0.0	87.6		5.75		TAS				m_e	
CLZ	75.00		P	00:51:11.845	0.0	88.0		5.77		TAS		439.6	1.33	a_e	MBB 6.4
CLZ	75.00		pP	00:51:23.497	-0.2	87.6		5.75		TAS				m_e	
FLT1	74.45		P	00:51:07.745	-0.3	88.0		5.77		TAS		110.9	0.95	a_e	MBB 6.2
FLT1	74.45		pP	00:51:19.453	0.1	87.6		5.75		TAS				m_e	
FUR	74.59		P	00:51:09.095	-0.3	88.0		5.77		TAS		193.0	1.04	a_e	MBB 6.3
FUR	74.59		pP	00:51:20.924		87.6		5.75		TAS				m_e	
GEC2	72.96		P	00:50:59.995	-0.1	88.0		5.77		TAS		252.2	0.91	a_e	MBB 6.5
GEC2	72.96		pP	00:51:11.747	-0.1	87.6		5.75		TAS				m_e	
GEC2	72.96		PcP	00:51:15.345						T__				m_e	
GOR1	74.39		P	00:51:08.195	0.1	88.0		5.77		TAS		423.9	1.24	a_e	MBB 6.6
GOR1	74.39		pP	00:51:19.814	0.5	87.6		5.75		TAS				m_e	
GRA1	74.56		S	01:00:41.880						T__				m_e	
GRA1	74.56		P	00:51:09.695	0.2	88.0		5.77		TAS		300.7	1.12	a_e	MBB 6.5
GRA1	74.56		pP	00:51:21.483	-0.2	87.6		5.75		TAS				m_e	
GRA1	74.56		L	01:29:57.760						T__		1824.0	18.60	a_e	Ms 5.4
GTTG	75.27		P	00:51:13.295	-0.1	88.0		5.77		TAS		290.7	1.02	a_e	MBB 6.4
IBBN	76.59		P	00:51:20.845	-0.8	88.0		5.77		TAS		421.0	1.15	a_e	MBB 6.7
IBBN	76.59		pP	00:51:32.670	-0.7	87.6		5.75		TAS				m_e	
KAST	76.26		P	00:51:18.995	-0.2	88.0		5.77		TAS		183.2	1.25	a_e	MBB 6.3
KAST	76.26		pP	00:51:30.727	-0.3	87.6		5.75		TAS				m_e	
MANZ	73.97		P	00:51:06.395	0.6	88.0		5.77		TAS		80.5	1.20	a_e	MBB 5.8
MANZ	73.97		pP	00:51:17.889	0.6	87.6		5.75		TAS				m_e	
MOX	74.27		S	01:00:35.115						T__				m_e	
MOX	74.27		P	00:51:07.545	0.0	88.0		5.77		TAS		140.8	0.89	m_e	MBB 6.3
MOX	74.27		pP	00:51:19.272	0.4	87.6		5.75		TAS				m_e	

MOX	74.27	L	01:27:35.773							T__	1639.8	21.20	a_e	Ms	5.3
NEUB	74.15	P	00:51:06.595	-0.1	88.0	5.77				TAS	293.7	1.21	a_e	MBB	6.4
NEUB	74.15	pP	00:51:18.413	0.1	87.6	5.75				TAS			m_e		
NRDL	75.14	P	00:51:12.840	-0.2	88.0	5.77				TAS	531.6	1.42	m_e	MBB	6.5
NRDL	75.14	pP	00:51:24.588	0.2	87.6	5.75				TAS			m_e		
RETH	75.58	P	00:51:15.095	0.3	88.0	5.77				TAS	1005.3	1.32	a_e	MBB	7.1
RETH	75.58	pP	00:51:26.829	-0.1	87.6	5.75				TAS			m_e		
RGN	73.19	P	00:51:01.095	0.0	88.0	5.77				TAS	468.4	1.26	a_e	MBB	6.7
RGN	73.19	PcP	00:51:16.422							T__			m_e		
RJOB	73.58	P	00:51:03.055	-0.3	88.0	5.77				TAS	203.1	1.26	m_e	MBB	6.2
ROTZ	73.91	P	00:51:06.045	0.3	88.0	5.77				TAS	74.8	1.09	a_e	MBB	5.8
ROTZ	73.91	pP	00:51:17.798	0.1	87.6	5.75				TAS			m_e		
RUE	72.89	P	00:50:59.295	-0.0	88.0	5.77				TAS	464.6	0.85	a_e	MBB	6.8
RUE	72.89	pP	00:51:11.110	-0.8	87.6	5.75				TAS			m_e		
RUE	72.89	PcP	00:51:14.683							T__			m_e		
STU	75.94	P	00:51:16.895	-0.4	88.0	5.77				TAS	176.3	0.73	a_e	MBB	6.8
STU	75.94	pP	00:51:28.643		87.6	5.75				TAS			m_e		
TANN	73.74	P	00:51:04.445	0.1	88.0	5.77				TAS	189.6	1.21	a_e	MBB	6.2
TANN	73.74	pP	00:51:15.956	0.6	87.6	5.75				TAS			m_e		
TANN	73.74	PcP	00:51:19.793							T__			m_e		
TNS	76.31	P	00:51:19.345	0.6	88.0	5.77				TAS	136.1	0.88	a_e	MBB	6.3
TNS	76.31	pP	00:51:30.868	0.2	87.6	5.75				TAS			m_e		
UBBA	75.29	P	00:51:13.147	0.1	88.0	5.77				TAS	34.4	0.89	m_e	MBB	6.2
UBBA	75.29	pP	00:51:24.793	-0.1	87.6	5.75				TAS			m_e		
UBR	75.40	P	00:51:13.595		88.0	5.77				TAS	164.4	0.81	a_e	MBB	6.3
WET	73.49	P	00:51:03.195	0.1	88.0	5.77				TAS	259.2	1.18	a_e	MBB	6.4
WET	73.49	pP	00:51:14.849	-0.5	87.6	5.75				TAS			m_e		
WET	73.49	PcP	00:51:18.282							T__			m_e		
WLF	77.84	P	00:51:28.395	0.6	88.0	5.77				TAS	194.2	1.24	a_e	MBB	6.5
WLF	77.84	pP	00:51:39.994	0.1	87.6	5.75				TAS			m_e		

Event 90522007 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/22	18:10:06.40			-15.3800	-173.2000				10.0					145.59	145.59	m i ke	EMSC
	90522039																

Magnitude	Err	Nsta	Author	OrigID
Ms	4.8		BGR	90522013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.59		PKPbc	18:29:45.692		7.6		3.00		TAS				m_e	
GRA1	145.59		L	19:40:42.523						T__	168.0	19.10		a_e	Ms 4.8

Event 90523003 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/23	08:45:21.43			51.4020	-179.9720				36.6	2.9		31		73.84	80.92	m i ke	BGR
OrigID 90523009																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.2		BGR	90523009
MBB	6.4		BGR	90523009
Ms	5.8		BGR	90523009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	76.45		P	08:57:05.502	0.2	7.1		5.53		TAS		366.0	1.40	a_e	MBB	6.6
BFO	80.39		P	08:57:26.852	0.0	7.1		5.53		TAS		196.8	1.20	a_e	MBB	6.2
BRG	77.42		P	08:57:10.552	0.1	7.1		5.53		TAS		145.3	1.11	a_e	MBB	6.3
BRG	77.42		pP	08:57:20.482						T__					m_e	
BSEG	74.68		P	08:56:55.652	0.2	7.1		5.53		TAS		227.2	1.04	a_e	MBB	6.5
BUG	77.35		P	08:57:10.102	-0.2	7.1		5.53		TAS		198.7	1.07	a_e	MBB	6.5
CLL	77.08		P	08:57:08.552	0.2	7.1		5.53		TAS		154.5	1.15	a_e	MBB	6.4
CLL	77.08		pP	08:57:18.994						T__					m_e	
CLZ	76.76		P	08:57:07.552	-0.4	7.1		5.53		TAS		668.4	1.56	a_e	MBB	6.6
FLT1	76.21		P	08:57:03.602	0.0	7.1		5.53		TAS		148.1	1.01	a_e	MBB	6.5
FLT1	76.21		pP	08:57:14.982						T__					m_e	
FUR	80.35		P	08:57:26.902	-0.4	7.1		5.53		TAS		276.8	1.15	a_e	MBB	6.3
GEC2	79.45		P	08:57:22.102	-0.3	7.1		5.53		TAS		117.6	1.02	a_e	MBB	6.2
GOR1	75.55		P	08:57:00.702	-0.1	7.1		5.53		TAS		625.3	1.54	a_e	MBB	6.8
GRA1	78.83		P	08:57:19.111	0.2	7.1		5.53		TAS		402.6	1.12	m_e	mb	6.4
GRA1	78.83		L	09:36:20.873						T__		4959.7	21.40	a_e	Ms	5.8
GTTG	77.08		P	08:57:09.152	-0.1	7.1		5.53		TAS		288.1	1.12	a_e	MBB	6.6
GTTG	77.08		pP	08:57:19.318						T__					m_e	
IBBN	76.46		P	08:57:05.602	0.4	7.1		5.53		TAS		1557.1	1.86	a_e	MBB	6.8
IBBN	76.46		pP	08:57:16.398						T__					m_e	
KAST	77.53		P	08:57:11.452	0.1	7.1		5.53		TAS		239.0	1.36	a_e	MBB	6.4
MANZ	78.47		P	08:57:16.602	-0.1	7.1		5.53		TAS		32.1	1.15	a_e	MBB	5.7
MOX	77.86		P	08:57:13.202	0.2	7.1		5.53		TAS		187.0	1.17	a_e	MBB	6.4
MOX	77.86		L	09:35:51.379						T__		4117.2	21.60	a_e	Ms	5.7
NEUB	77.30		P	08:57:10.052	-0.2	7.1		5.53		TAS		338.2	1.11	a_e	MBB	6.7
NRDL	76.13		P	08:57:03.502	-0.5	7.1		5.53		TAS		464.4	1.70	a_e	MBB	6.5
RETH	75.94		P	08:57:02.602	-0.2	7.1		5.53		TAS		1216.6	1.38	a_e	MBB	7.2
RGN	73.84		P	08:56:50.902	-0.1	7.1		5.53		TAS		535.7	1.19	a_e	MBB	6.5
RJOB	80.64		P	08:57:28.602	-0.1	7.1		5.53		TAS		76.1	0.91	a_e	MBB	6.2
ROTZ	78.68		P	08:57:18.052	0.5	7.1		5.53		TAS		53.5	1.27	a_e	MBB	5.7
RUE	75.85		P	08:57:02.002	0.0	7.1		5.53		TAS		313.3	1.23	a_e	MBB	6.6
STU	79.90		P	08:57:24.202	-0.1	7.1		5.53		TAS		382.6	1.04	a_e	MBB	6.5
TANN	78.01		P	08:57:14.252	-0.0	7.1		5.53		TAS		210.7	1.34	a_e	MBB	6.4
TNS	78.50		P	08:57:16.702	0.3	7.1		5.53		TAS		158.5	1.01	a_e	MBB	6.3
UBBA	77.81		P	08:57:13.002	-0.0	7.1		5.53		TAS		318.2	1.56	a_e	MBB	6.4
UBR	80.92		P	08:57:30.052		7.1		5.53		TAS		265.3	1.39	a_e	MBB	6.3

WET	79.23	P	08:57:21.152	0.1	7.1	5.53	TAS	148.5	1.21	a_e	MBB	6.2
WLF	79.18	P	08:57:20.652	0.3	7.1	5.53	TAS	241.7	1.19	a_e	MBB	6.4

Event 90523004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/23	15:02:19.11			-21.8500	170.3500				25.2	0.2		28		145.01	149.91	m i ke	BGR
90523010																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.5		BGR	90523010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.94		PKPbc	15:21:55.903	-0.4	36.8		2.86		TAS				a_e	
BFO	149.91		PKPbc	15:22:06.653		36.8		2.86		TAS				a_e	
BRG	145.66		PKPbc	15:21:54.903	0.3	36.8		2.86		TAS				a_e	
BRG	145.66		pPKPbc	15:22:02.440						T__				m_e	
BUG	147.66		PKPbc	15:22:00.720	-0.2	36.8		2.86		TAS				m_e	
CLL	145.71		PKPbc	15:21:54.853	0.3	36.8		2.86		TAS				m_e	
CLZ	146.28		PKPbc	15:21:57.253	0.1	36.8		2.86		TAS				a_e	
FLT1	145.57		PKPbc	15:21:54.303	-0.2	36.8		2.86		TAS				a_e	
FUR	148.85		PKPbc	15:22:04.410		36.8		2.86		TAS				m_e	
GEC2	147.27		PKPbc	15:22:00.003	-0.5	36.8		2.86		TAS				a_e	
GOR1	145.01		PKPbc	15:21:52.903	-0.2	36.8		2.86		TAS				a_e	
GRA1	147.69		PKPbc	15:22:01.253	-0.6	36.8		2.86		TAS				a_e	
GRA1	147.69		L	16:31:02.138						T__		940.0	20.10	a_e Ms	5.6
GTTG	146.67		PKPbc	15:21:58.303	0.1	36.8		2.86		TAS				a_e	
GTTG	146.67		pPKPbc	15:22:05.929						T__				m_e	
IBBN	146.76		PKPbc	15:21:58.253	0.3	36.8		2.86		TAS				a_e	
KAST	147.49		PKPbc	15:22:00.503	0.1	36.8		2.86		TAS				a_e	
MANZ	147.09		PKPbc	15:21:59.603	0.3	36.8		2.86		TAS				a_e	
MOX	146.78		PKPbc	15:21:58.403	0.3	36.8		2.86		TAS				a_e	
MOX	146.78		L	16:30:32.332						T__		784.6	21.40	a_e Ms	5.5
NEUB	146.28		PKPbc	15:21:56.953	0.3	36.8		2.86		TAS				a_e	
NEUB	146.28		pPKPbc	15:22:04.576						T__				m_e	
NRDL	145.83		PKPbc	15:21:55.503	0.0	36.8		2.86		TAS				a_e	
RETH	145.88		PKPbc	15:21:55.553	-0.5	36.8		2.86		TAS				a_e	
RJOB	148.50		PKPbc	15:22:03.053		36.8		2.86		TAS				a_e	
ROTZ	147.22		PKPbc	15:21:59.916	0.1	36.8		2.86		TAS				m_e	
STU	149.22		PKPbc	15:22:05.303	-0.6	36.8		2.86		TAS				a_e	
STU	149.22		pPKPbc	15:22:12.817						T__				m_e	
TANN	146.62		PKPbc	15:21:58.153	0.4	36.8		2.86		TAS				a_e	
TNS	148.30		PKPbc	15:22:02.953	0.4	36.8		2.86		TAS				a_e	
UBBA	147.25		PKPbc	15:21:59.902	0.4	36.8		2.86		TAS				m_e	
UBR	149.72		PKPbc	15:22:06.203		36.8		2.86		TAS				a_e	
WET	147.41		PKPbc	15:22:00.553	0.1	36.8		2.86		TAS				a_e	

WLF 149.56 PKPbc 15:22:06.703 0.0 36.8 2.86 TAS a_e

Event 90524002 Andaman Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/24	21:23:32.70			12.7740	93.4280				35.6	4.1		17		73.57	77.75	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90524008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	73.57		P	21:35:01.596	-0.6	87.4		5.76		TAS		9.6	0.92	m_e mb	4.8
BRG	73.57		pP	21:35:12.380		87.4		5.76		TAS				m_e	
BSEG	75.74		P	21:35:14.332	-0.6	87.4		5.76		TAS		14.1	1.03	m_e mb	5.0
BSEG	75.74		pP	21:35:23.754		87.4		5.76		TAS				m_e	
BUG	77.75		P	21:35:25.682	0.5	87.4		5.76		TAS		6.2	0.81	m_e mb	4.8
CLL	74.16		P	21:35:04.633	0.5	87.4		5.76		TAS		6.0	0.92	m_e mb	4.6
CLL	74.16		pP	21:35:14.075		87.4		5.76		TAS				m_e	
CLZ	75.79		P	21:35:14.657	-0.1	87.4		5.76		TAS		8.9	0.59	m_e mb	5.1
CLZ	75.79		pP	21:35:24.877		87.4		5.76		TAS				m_e	
FLT1	75.24		P	21:35:10.575	-0.1	87.4		5.76		TAS		4.8	0.56	m_e mb	4.7
FLT1	75.24		pP	21:35:21.278		87.4		5.76		TAS				m_e	
GEC2	73.75		P	21:35:02.828		87.4		5.76		TAS		11.4	0.84	m_e mb	4.9
GEC2	73.75		pP	21:35:13.076		87.4		5.76		TAS				m_e	
GRA1	75.35		P	21:35:12.457		87.4		5.76		TAS		8.7	0.91	m_e mb	4.8
GRA1	75.35		pP	21:35:21.500		87.4		5.76		TAS				m_e	
GTTG	76.06		pP	21:35:26.435		87.4		5.76		TAS				m_e	
IBBN	77.37		pP	21:35:32.411		87.4		5.76		TAS				m_e	
KAST	77.05		P	21:35:21.618	0.1	87.4		5.76		TAS		5.9	0.94	m_e mb	4.7
MANZ	74.76		P	21:35:08.948		87.4		5.76		TAS		5.6	1.34	m_e mb	4.4
MOX	75.06		P	21:35:10.314		87.4		5.76		TAS		5.8	0.84	m_e mb	4.6
MOX	75.06		pP	21:35:21.554		87.4		5.76		TAS				m_e	
NEUB	74.94		P	21:35:09.458	0.1	87.4		5.76		TAS		19.4	1.20	m_e mb	5.0
NRDL	75.92		pP	21:35:24.920		87.4		5.76		TAS				m_e	
RETH	76.37		pP	21:35:28.007		87.4		5.76		TAS				m_e	
ROTZ	74.70		P	21:35:08.745		87.4		5.76		TAS		4.7	1.17	m_e mb	4.4
ROTZ	74.70		pP	21:35:17.893	-0.7	87.4		5.76		TAS				m_e	
RUE	73.68		P	21:35:02.071	-0.1	87.4		5.76		TAS		21.8	0.92	m_e mb	5.2
TANN	74.52		P	21:35:07.125		87.4		5.76		TAS		11.3	1.21	m_e mb	4.8
TANN	74.52		pP	21:35:18.482		87.4		5.76		TAS				m_e	
UBR	76.20		P	21:35:16.182		87.4		5.76		TAS		7.3	0.79	m_e mb	4.9
UBR	76.20		pP	21:35:27.686		87.4		5.76		TAS				m_e	
WET	74.28		P	21:35:05.908		87.4		5.76		TAS		18.6	1.27	m_e mb	5.0
WET	74.28		pP	21:35:15.059		87.4		5.76		TAS				m_e	

Event 90524003 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/24	22:09:18.70			-20.6200	169.8100				127.0			20		143.24	148.40	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
ASSE	144.61		PKPbc	22:28:38.661	-0.3	38.1		3.18		TAS					m_e
BRG	144.34		PKPbc	22:28:37.881	-0.2	38.1		3.18		TAS					m_e
BSEG	143.24		PKPbc	22:28:33.956	0.1	38.1		3.18		TAS					m_e
CLL	144.39		PKPbc	22:28:37.868	0.1	38.1		3.18		TAS					m_e
CLZ	144.95		PKPbc	22:28:40.234	-0.1	38.1		3.18		TAS					m_e
FLT1	144.25		PKPbc	22:28:37.089	0.2	38.1		3.18		TAS					m_e
GEC2	145.96		PKPbc	22:28:43.232		38.1		3.18		TAS					m_e
GTTG	145.34		PKPbc	22:28:41.447	0.1	38.1		3.18		TAS					m_e
MANZ	145.77		PKPbc	22:28:42.723		38.1		3.18		TAS					m_e
MOX	145.46		PKPbc	22:28:41.407	2.1	38.1		3.18		TAS					m_e
NEUB	144.96		PKPbc	22:28:40.009	-0.3	38.1		3.18		TAS					m_e
NRDL	144.51		PKPbc	22:28:38.313	0.5	38.1		3.18		TAS					m_e
RETH	144.55		PKPbc	22:28:38.433	0.1	38.1		3.18		TAS					m_e
ROTZ	145.90		PKPbc	22:28:43.052		38.1		3.18		TAS					m_e
TANN	145.30		PKPbc	22:28:41.196	-1.4	38.1		3.18		TAS					m_e
TNS	146.98		PKPbc	22:28:46.032		38.1		3.18		TAS					m_e
UBR	148.40		PKPbc	22:28:49.651		38.1		3.18		TAS					m_e
WET	146.09		PKPbc	22:28:43.666		38.1		3.18		TAS					m_e
WLF	148.23		PKPbc	22:28:49.835		38.1		3.18		TAS					m_e

Event 90525002 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/25	06:20:52.38			36.1520	141.3740				43.2	3.2		13		80.83	86.06	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90525008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	86.06		P	06:33:24.891		38.4		5.14		TAS		23.7	1.17	m_e mb	5.2
BFO	86.06		pP	06:33:36.492		38.4		5.14		TAS				m_e	
BRG	81.80		P	06:33:03.573		38.4		5.14		TAS		7.1	0.70	m_e mb	4.9
BRG	81.80		pP	06:33:16.060		38.4		5.14		TAS				m_e	

BSEG	80.83	P	06:32:58.869	38.4	5.14	TAS	17.3	0.89	m_e	mb	5.1
BSEG	80.83	pP	06:33:11.445	38.4	5.14	TAS			m_e		
CLL	81.85	P	06:33:03.572	38.4	5.14	TAS	15.6	0.80	m_e	mb	5.2
CLL	81.85	pP	06:33:16.122	38.4	5.14	TAS			m_e		
CLZ	82.46	P	06:33:07.457	-0.3	38.4	TAS	16.4	0.81	m_e	mb	5.2
CLZ	82.46	pP	06:33:20.063	38.4	5.14	TAS			m_e		
FLT1	81.75	P	06:33:02.707	-0.1	38.4	TAS	17.7	0.76	m_e	mb	5.3
FLT1	81.75	pP	06:33:15.671	38.4	5.14	TAS			m_e		
FUR	84.99	P	06:33:19.949	38.4	5.14	TAS	31.5	0.85	m_e	mb	5.6
FUR	84.99	pP	06:33:32.734	38.4	5.14	TAS			m_e		
GEC2	83.44	P	06:33:12.045	38.4	5.14	TAS	5.2	0.69	m_e	mb	4.9
GEC2	83.44	pP	06:33:24.113	38.4	5.14	TAS			m_e		
GRA1	83.82	P	06:33:14.411	38.4	5.14	TAS	20.9	0.80	m_e	mb	5.4
GTTG	82.85	P	06:33:09.706	38.4	5.14	TAS	11.8	0.77	m_e	mb	5.2
GTTG	82.85	pP	06:33:22.043	38.4	5.14	TAS			m_e		
IBBN	83.06	P	06:33:10.372	38.4	5.14	TAS	19.9	0.69	m_e	mb	5.5
IBBN	83.06	pP	06:33:22.769	38.4	5.14	TAS			m_e		
MANZ	83.23	P	06:33:10.948	38.4	5.14	TAS	1.5	0.77	m_e	mb	4.3
MANZ	83.23	pP	06:33:23.653	38.4	5.14	TAS			m_e		
NEUB	82.42	P	06:33:06.930	38.4	5.14	TAS	14.6	0.73	m_e	mb	5.2
NEUB	82.42	pP	06:33:19.447	38.4	5.14	TAS			m_e		
NRDL	82.05	P	06:33:05.169	38.4	5.14	TAS	8.9	0.80	m_e	mb	5.0
NRDL	82.05	pP	06:33:17.566	38.4	5.14	TAS			m_e		
RJOB	84.68	P	06:33:18.368	38.4	5.14	TAS	10.5	0.94	m_e	mb	5.0
RJOB	84.68	pP	06:33:31.780	38.4	5.14	TAS			m_e		
ROTZ	83.36	P	06:33:11.779	38.4	5.14	TAS	2.8	0.87	m_e	mb	4.5
ROTZ	83.36	pP	06:33:24.414	38.4	5.14	TAS			m_e		
STU	85.36	P	06:33:21.852	38.4	5.14	TAS	34.1	0.73	m_e	mb	5.7
STU	85.36	pP	06:33:34.160	38.4	5.14	TAS			m_e		
WET	83.56	P	06:33:13.129	38.4	5.14	TAS	17.6	1.52	m_e	mb	5.1

Event 90525001 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/25	10:31:11.40			-18.9700	169.0300				151.0			18		143.50	146.79	m i ke	EMSC
	90525033																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	146.79		PKPbc	10:50:35.424		38.1		3.15		TAS				m_e	
BUG	144.54		PKPbc	10:50:28.226	-0.1	38.1		3.15		TAS				m_e	
FUR	145.74		PKPbc	10:50:32.824		38.1		3.15		TAS				m_e	
GEC2	144.16		PKPbc	10:50:27.384		38.1		3.15		TAS				m_e	
GRA1	144.56		PKPbc	10:50:29.117		38.1		3.15		TAS				m_e	
GTTG	143.54		PKPbc	10:50:25.869	0.4	38.1		3.15		TAS				m_e	

IBBN	143.64	PKPbc	10:50:26.005	0.1	38.1	3.15	TAS	m_e
KAST	144.37	PKPbc	10:50:28.045	-0.3	38.1	3.15	TAS	m_e
MANZ	143.98	PKPbc	10:50:27.072		38.1	3.15	TAS	m_e
MOX	143.66	PKPbc	10:50:25.671		38.1	3.15	TAS	m_e
RJOB	145.39	PKPbc	10:50:31.596		38.1	3.15	TAS	m_e
ROTZ	144.11	PKPbc	10:50:27.525		38.1	3.15	TAS	m_e
TANN	143.50	PKPbc	10:50:25.470		38.1	3.15	TAS	m_e
TNS	145.18	PKPbc	10:50:30.749		38.1	3.15	TAS	m_e
UBBA	144.13	PKPbc	10:50:27.364	-0.0	38.1	3.15	TAS	m_e
UBR	146.60	PKPbc	10:50:35.243		38.1	3.15	TAS	m_e
WET	144.30	PKPbc	10:50:27.989		38.1	3.15	TAS	m_e
WLF	146.44	PKPbc	10:50:35.062		38.1	3.15	TAS	m_e

Event 90526001 Peru-Brazil border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/26	07:41:24.33			-5.1270	-73.5470				137.5	1.0		32		87.23	92.40	m i ke	BGR
OrigID 90526007																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.4		BGR	90526007
MBB	7.4		BGR	90526007
Ms	7.2		BGR	90526007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	90.46		P	07:54:10.793	0.1	262.7		4.66		TAS		315.4	1.30	m_e	MBB 7.5
BFO	88.41		P	07:54:00.563	-0.6	262.7		4.66		TAS		153.5	0.97	m_e	MBB 7.4
BRG	92.35		P	07:54:19.385	-0.1	262.7		4.66		TAS		148.5	0.96	m_e	MBB 7.3
BRG	92.35		pP	07:54:54.386		262.7		4.66		TAS					m_e
BSEG	90.49		P	07:54:10.849	-0.0	262.7		4.66		TAS		231.1	0.84	m_e	MBB 7.5
BUG	88.27		P	07:54:00.347	-0.1	262.7		4.66		TAS		471.3	0.95	m_e	MBB 7.5
CLL	91.80		P	07:54:16.857	-0.1	262.7		4.66		TAS		159.7	0.84	m_e	MBB 7.3
CLZ	90.24		P	07:54:09.717	0.1	262.7		4.66		TAS		302.1	1.18	m_e	MBB 7.3
FLT1	90.83		P	07:54:11.944	-0.5	262.7		4.66		TAS		226.6	1.12	m_e	MBB 7.4
FUR	90.33		P	07:54:09.943	-0.1	262.7		4.66		TAS		215.5	1.07	m_e	MBB 7.3
GEC2	92.01		P	07:54:17.532	-0.4	262.7		4.66		TAS		99.9	1.33	m_e	MBB 7.2
GEC2	92.01		pP	07:54:52.792		262.7		4.66		TAS					m_e
GOR1	90.96		P	07:54:12.955	-0.1	262.7		4.66		TAS		426.3	1.40	m_e	MBB 7.6
GRA1	90.49		S	08:04:21.966						T__					m_e
GRA1	90.49		P	07:54:11.543	0.7	262.7		4.66		TAS		286.0	1.17	m_e	mb 6.4
GRA1	90.49		L	08:24:13.187						T__		79754.0	19.40	a_e	Ms 7.2
GTTG	89.95		P	07:54:08.395	0.1	262.7		4.66		TAS		249.3	1.02	m_e	MBB 7.3
HLG	89.12		P	07:54:04.028	-0.4	262.7		4.66		TAS		619.9	0.91	m_e	MBB 7.7
IBBN	88.72		P	07:54:02.565	0.0	262.7		4.66		TAS		465.9	1.03	m_e	MBB 7.5
KAST	88.93		P	07:54:03.183	-0.4	262.7		4.66		TAS		180.7	0.94	m_e	MBB 7.3
MANZ	91.09		P	07:54:13.738	0.1	262.7		4.66		TAS		24.7	0.90	m_e	MBB 6.8

MOX	90.86	S	08:04:24.604							T__						m_e		
MOX	90.86	P	07:54:12.646	0.1	262.7		4.66			TAS	80.5	0.93		m_e	MBB		7.3	
MOX	90.86	pP	07:54:47.469		262.7		4.66			TAS				m_e				
MOX	90.86	L	08:21:28.017							T__	98498.3	20.60		a_e	Ms		7.2	
NEUB	91.02	P	07:54:13.464	0.1	262.7		4.66			TAS	393.8	1.49		m_e	MBB		7.4	
NRDL	90.17	P	07:54:09.445	0.1	262.7		4.66			TAS	355.0	1.31		m_e	MBB		7.4	
RETH	89.75	P	07:54:07.536	0.1	262.7		4.66			TAS	1736.2	1.16		m_e	MBB		8.1	
RGN	92.32	P	07:54:19.638	0.3	262.7		4.66			TAS	495.0	0.87		m_e	MBB		7.6	
RJOB	91.30	P	07:54:14.322	-0.3	262.7		4.66			TAS	156.3	1.05		m_e	MBB		7.4	
ROTZ	91.13	P	07:54:13.985	0.2	262.7		4.66			TAS	24.9	0.85		m_e	MBB		6.7	
RUE	92.40	P	07:54:19.385	-0.3	262.7		4.66			TAS	168.1	1.00		m_e	MBB		7.4	
STU	89.04	P	07:54:03.933	-0.2	262.7		4.66			TAS	973.7	0.87		m_e	MBB		7.6	
TANN	91.37	P	07:54:15.201	0.3	262.7		4.66			TAS	226.4	1.15		m_e	MBB		7.4	
TNS	88.79	P	07:54:03.203	0.3	262.7		4.66			TAS	422.2	0.91		m_e	MBB		7.4	
UBBA	89.86	P	07:54:08.490	0.6	262.7		4.66			TAS	265.4	1.56		m_e	MBB		7.2	
UBR	89.49	P	07:54:06.432	0.3	262.7		4.66			TAS	375.5	0.98		m_e	MBB		7.3	
WET	91.50	P	07:54:15.474	-0.1	262.7		4.66			TAS	359.9	1.33		m_e	MBB		7.4	
WLF	87.23	P	07:53:55.846	0.2	262.7		4.66			TAS	815.9	0.85		m_e	MBB		7.3	

Event 90527005 Kodiak Island, Alaska, United States, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/27	09:52:15.79			58.4180	-152.7350				33.0			30		67.17	73.54	m i ke	BGR
	90527011																

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	90527011
Ms	4.8		BGR	90527011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	68.99	P		10:03:16.084	-0.3	351.2		6.06		TAS		57.7	1.14	m_e	mb 5.7
BFO	72.48	P		10:03:37.311	-0.1	351.2		6.06		TAS		27.0	0.77	m_e	mb 5.4
BRG	70.53	P		10:03:25.669	0.1	351.2		6.06		TAS		73.1	1.36	m_e	mb 5.6
BSEG	67.17	P		10:03:05.044	-0.3	351.2		6.06		TAS		73.6	1.06	m_e	mb 5.8
BUG	69.29	P		10:03:17.799	-0.3	351.2		6.06		TAS		51.8	0.79	m_e	mb 5.8
CLL	70.02	P		10:03:22.102	-0.5	351.2		6.06		TAS		36.4	1.08	m_e	mb 5.4
CLZ	69.24	P		10:03:18.263	0.4	351.2		6.06		TAS		66.5	0.99	m_e	mb 5.8
FLT1	68.84	P		10:03:14.692	-0.8	351.2		6.06		TAS		40.0	1.09	m_e	mb 5.6
FUR	72.97	P		10:03:40.425	-0.1	351.2		6.06		TAS		36.6	0.89	m_e	mb 5.5
GEC2	72.52	P		10:03:37.928	0.2	351.2		6.06		TAS		57.0	1.57	m_e	mb 5.5
GOR1	68.20	P		10:03:11.935	0.4	351.2		6.06		TAS		67.9	1.18	m_e	mb 5.8
GRA1	71.45	P		10:03:31.212	-0.1	351.2		6.06		TAS		29.6	0.99	m_e	mb 5.4
GRA1	71.45	L		10:33:52.876						T__		551.8	21.20	a_e	Ms 4.8
GTTG	69.49	P		10:03:19.635	0.2	351.2		6.06		TAS		115.9	1.00	m_e	mb 6.1
IBBN	68.50	P		10:03:13.525	0.2	351.2		6.06		TAS		73.8	1.10	m_e	mb 5.8
KAST	69.66	P		10:03:20.170	-0.2	351.2		6.06		TAS		28.4	0.92	m_e	mb 5.4

MANZ	71.25	P	10:03:29.901	-0.1	351.2	6.06	TAS	5.4	1.04	m_e	mb	4.6
MOX	70.55	P	10:03:25.835	0.0	351.2	6.06	TAS	93.4	1.24	m_e	mb	5.8
MOX	70.55	L	10:33:25.148				T__	683.2	21.30	a_e	Ms	4.9
NEUB	70.02	P	10:03:22.243	-0.3	351.2	6.06	TAS	55.3	0.96	m_e	mb	5.7
NRDL	68.57	P	10:03:13.828	0.0	351.2	6.06	TAS	69.2	1.07	m_e	mb	5.8
RETH	68.25	P	10:03:12.075	0.2	351.2	6.06	TAS	124.7	1.05	m_e	mb	6.1
RJOB	73.54	P	10:03:43.932	0.0	351.2	6.06	TAS	24.6	0.68	m_e	mb	5.4
ROTZ	71.47	P	10:03:31.432	0.0	351.2	6.06	TAS	14.5	1.34	m_e	mb	4.9
RUE	68.92	P	10:03:16.195	0.3	351.2	6.06	TAS	85.2	0.89	m_e	mb	6.0
STU	72.14	P	10:03:35.398	-0.1	351.2	6.06	TAS	86.0	0.92	m_e	mb	5.9
TANN	70.85	P	10:03:27.797	0.1	351.2	6.06	TAS	47.8	1.26	m_e	mb	5.5
TNS	70.63	P	10:03:26.237	-0.0	351.2	6.06	TAS	26.6	0.74	m_e	mb	5.5
UBBA	70.21	P	10:03:24.547	0.8	351.2	6.06	TAS	17.2	1.05	m_e	mb	5.1
UBR	73.32	P	10:03:42.540	-0.1	351.2	6.06	TAS	26.4	0.85	m_e	mb	5.4
WET	72.15	P	10:03:35.588	0.1	351.2	6.06	TAS	53.6	1.43	m_e	mb	5.5
WLF	70.89	P	10:03:27.943	0.2	351.2	6.06	TAS	73.2	1.05	m_e	mb	5.7

Event 90528002 Switzerland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/28	08:48:07.06	0.46	0.90	46.3820	6.7370	4.4	4.4	79	10.0			24	274	1.16	6.09	m i ke	BGR
90528008																	

Magnitude Err Nsta Author OrigID
 ML 4.3 BGR 90528008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	6.09		Pn	08:49:36.718	1.6					T__				m_e	
BALST	1.16		Sg	08:48:44.736	0.8					T__				m_e	
BALST	1.16		Pg	08:48:28.659	-0.3					T__				m_e	ML 4.1
BFO	2.23		Sg	08:49:17.419	-0.4					T__				m_e	
BFO	2.23		Pn	08:48:42.412	-0.6					T__				m_e	ML 3.8
BFO	2.23		Pg	08:48:48.556	-0.5					T__				m_e	
CLZ	5.96		Pg	08:50:00.553	1.3					T__				m_e	
DAVA	2.34		Sg	08:49:21.630	0.3					T__				m_e	
DAVA	2.34		Pg	08:48:50.450	-0.7					T__				m_e	ML 4.1
FUR	3.57		Sg	08:50:01.020	0.8					T__				m_e	
FUR	3.57		Pn	08:49:02.220	1.2					T__				m_e	ML 4.7
FUR	3.57		Pg	08:49:12.719	-1.5					T__				m_e	
GEC2	5.31		Pn	08:49:25.328	0.7					T__				m_e	
GEC2	5.31		Pg	08:49:45.741	-1.3					T__				m_e	
GRA1	4.47		Pg	08:49:30.366	-0.9					T__				m_e	
KAST	4.95		Pn	08:49:20.273	0.6					T__				m_e	
MANZ	5.09		Sg	08:50:47.714	-0.8					T__				m_e	ML 3.7
MOA	5.35		Pn	08:49:26.335	1.3					T__				m_e	
PLONS	1.94		Sg	08:49:09.040	0.4					T__				m_e	

PLONS	1.94	Pn	08:48:40.297	1.2	T__	m_e ML	4.3
PLONS	1.94	Pg	08:48:43.027	-0.5	T__	m_e	
ROTZ	4.99	Sg	08:50:46.698	1.3	T__	m_e	
ROTZ	4.99	Pg	08:49:40.604	-0.4	T__	m_e ML	3.7
SLE	1.83	Sg	08:49:04.989	-0.2	T__	m_e	
SLE	1.83	Pn	08:48:37.221	-0.4	T__	m_e ML	4.9
SLE	1.83	Pg	08:48:40.814	-0.7	T__	m_e	
STU	2.91	Sg	08:49:38.820	-0.6	T__	m_e ML	4.9
SULZ	1.48	Sg	08:48:54.972	0.7	T__	m_e	
SULZ	1.48	Pg	08:48:34.455	-0.6	T__	m_e ML	5.1
TANN	5.55	Sg	08:51:01.587	-1.5	T__	m_e	
TANN	5.55	Pg	08:49:50.097	-1.4	T__	m_e	
TNS	4.01	Sg	08:50:13.761	-0.5	T__	m_e	
TNS	4.01	Pn	08:49:07.600	0.6	T__	m_e ML	4.2
UBBA	4.94	Sg	08:50:44.592	0.9	T__	m_e	
UBBA	4.94	Pg	08:49:39.587	-0.4	T__	m_e ML	4.1
UBR	2.65	Sg	08:49:32.594	1.6	T__	m_e	
UBR	2.65	Pn	08:48:49.635	1.0	T__	m_e ML	4.3
UBR	2.65	Pg	08:48:56.012	-0.9	T__	m_e	
WET	4.98	Pn	08:49:19.911	-0.2	T__	m_e	
WET	4.98	Pg	08:49:39.805	-0.9	T__	m_e	
WILA	1.81	Sg	08:49:05.207	0.6	T__	m_e	
WILA	1.81	Pg	08:48:40.607	-0.6	T__	m_e ML	4.4
WLF	3.31	Sg	08:49:53.033	1.0	T__	m_e ML	4.2
WTTA	3.48	Sg	08:49:57.462	0.1	T__	m_e	
WTTA	3.48	Pg	08:49:11.270	-1.2	T__	m_e ML	4.3

Event 90529002 North Atlantic Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/29	13:06:38.25			51.9600	-35.2940				33.0				21	26.87	30.91	m i ke	BGR
OrigID 90529008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90529008
Ms	3.8		BGR	90529008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	27.91		P	13:12:24.248	-0.9	292.6		8.88		TAS		13.2	1.07	m_e mb	4.7
BFO	27.87		P	13:12:23.876	-0.1	292.6		8.88		TAS		14.6	1.11	m_e mb	4.7
BFO	27.87		L	13:21:59.542						T__		447.2	18.00	a_e Ms	4.1
BRG	30.26		P	13:12:44.781		292.6		8.88		TAS		7.7	0.94	m_e mb	4.5
BSEG	27.19		P	13:12:17.670	0.0	292.6		8.88		TAS		13.7	0.87	m_e mb	4.7
BSEG	27.19		L	13:20:57.705						T__		141.5	20.80	a_e Ms	3.5
CLL	29.55		P	13:12:38.614		292.6		8.88		TAS		13.3	1.00	m_e mb	4.7
CLL	29.55		L	13:23:09.303						T__		268.0	18.20	a_e Ms	3.9

CLZ	27.82	P	13:12:23.504	-0.1	292.6	8.88	TAS	27.9	1.22	m_e	mb	5.0
FLT1	28.18	P	13:12:25.811	-0.2	292.6	8.88	TAS	8.4	0.94	m_e	mb	4.5
FUR	29.74	P	13:12:41.108		292.6	8.88	TAS	38.3	0.91	m_e	mb	5.2
FUR	29.74	L	13:22:35.766				T__	310.3	20.20	a_e	Ms	3.9
GEC2	30.91	P	13:12:51.452		292.6	8.88	TAS	13.2	1.09	m_e	mb	4.8
GEC2	30.91	L	13:23:10.346				T__	159.7	20.50	a_e	Ms	3.7
GRA1	29.09	P	13:12:35.112	0.1	292.6	8.88	TAS	13.2	0.87	m_e	mb	4.8
GRA1	29.09	L	13:22:04.726				T__	149.6	19.70	a_e	Ms	3.6
GTTG	27.68	P	13:12:22.635	-0.4	292.6	8.88	TAS	69.9	1.35	m_e	mb	5.3
KAST	26.87	P	13:12:14.397	0.2	292.6	8.88	TAS	11.2	1.06	m_e	mb	4.5
MOX	28.97	P	13:12:33.066	0.4	292.6	8.88	TAS	5.5	0.87	m_e	mb	4.4
MOX	28.97	L	13:22:38.021				T__	335.8	18.50	a_e	Ms	4.0
NEUB	28.86	P	13:12:32.793	-0.4	292.6	8.88	TAS	12.1	0.72	m_e	mb	4.8
NRDL	27.47	P	13:12:20.153	-0.0	292.6	8.88	TAS	15.6	1.05	m_e	mb	4.7
RETH	26.96	P	13:12:15.622	0.3	292.6	8.88	TAS	22.9	0.84	m_e	mb	4.9
RJOB	30.84	P	13:12:50.956		292.6	8.88	TAS	6.5	0.94	m_e	mb	4.5
ROTZ	29.65	P	13:12:39.885		292.6	8.88	TAS	1.2	0.96	m_e	mb	3.7
TANN	29.55	P	13:12:38.998		292.6	8.88	TAS	10.1	1.05	m_e	mb	4.6
TNS	27.22	P	13:12:18.632	0.2	292.6	8.88	TAS	32.2	1.21	m_e	mb	4.9
TNS	27.22	L	13:20:36.384				T__	182.3	21.50	a_e	Ms	3.6
UBR	29.23	P	13:12:36.568		292.6	8.88	TAS	13.0	0.84	m_e	mb	4.8
WET	30.30	L	13:22:41.251				T__	159.4	20.40	a_e	Ms	3.6

Event 90529003 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/29	14:43:04.67			29.2200	-41.6970				33.0			13		41.38	46.50	m i ke	BGR
90529009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90529009
Ms	4.4		BGR	90529009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	44.65		P	14:51:13.307		263.2		8.19		TAS		21.6	1.26	m_e	mb	4.9
BFO	42.57		P	14:50:56.851	0.0	263.2		8.19		TAS		15.7	1.10	m_e	mb	4.7
BFO	42.57		L	15:03:16.081						T__		421.2	20.40	a_e	Ms	4.3
BRG	46.50		P	14:51:28.546		263.2		8.19		TAS		5.7	1.10	m_e	mb	4.6
BSEG	44.78		P	14:51:13.845		263.2		8.19		TAS		42.7	1.36	m_e	mb	5.2
BSEG	44.78		L	15:06:32.501						T__		456.7	18.20	a_e	Ms	4.4
CLL	45.96		P	14:51:24.242		263.2		8.19		TAS		8.1	0.92	m_e	mb	4.8
CLL	45.96		L	15:05:25.323						T__		524.7	21.20	a_e	Ms	4.5
CLZ	44.42		P	14:51:11.468	-0.4	263.2		8.19		TAS		18.5	1.09	m_e	mb	4.7
FUR	44.51		L	15:04:14.539						T__		256.5	22.00	a_e	Ms	4.1
GEC2	46.17		L	15:05:26.347						T__		244.9	19.30	a_e	Ms	4.2
GRA1	44.63		P	14:51:13.612		263.2		8.19		TAS		23.0	1.23	m_e	mb	5.0

GRA1	44.63	L	15:05:01.511							T__	671.5	19.00	a_e	Ms	4.6
GTTG	44.12	P	14:51:09.628	-0.7	263.2		8.19			TAS	41.0	1.53	m_e	mb	4.9
MOX	45.01	P	14:51:15.964		263.2		8.19			TAS	7.3	1.15	m_e	mb	4.5
MOX	45.01	L	15:05:06.322							T__	829.7	20.10	a_e	Ms	4.7
NRDL	44.37	P	14:51:11.443	-0.2	263.2		8.19			TAS	22.7	1.13	m_e	mb	4.8
TNS	42.94	P	14:50:59.793	0.5	263.2		8.19			TAS	24.2	1.49	m_e	mb	4.7
TNS	42.94	L	15:03:43.677							T__	725.6	20.80	a_e	Ms	4.5
UBR	43.68	P	14:51:06.571	0.3	263.2		8.19			TAS	12.4	1.09	m_e	mb	4.6
WET	45.65	L	15:04:48.530							T__	377.4	21.90	a_e	Ms	4.3
WLF	41.38	P	14:50:46.190	-0.8	263.2		8.19			TAS	16.1	1.15	m_e	mb	4.7

Event 90529004 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/29	14:54:36.54			33.5010	-37.3710				33.0			13		37.00	40.60	m i ke	BGR
OrigID 90529010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90529010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	39.02		P	15:01:58.823		264.2		8.36		TAS		37.6	1.53	m_e	mb 4.8
BFO	37.00		P	15:01:42.394	-0.8	264.2		8.36		TAS		18.4	1.15	m_e	mb 4.7
BFO	37.00		L	15:14:02.129						T__		820.2	20.40	a_e	
BSEG	39.14		P	15:01:59.327		264.2		8.36		TAS		57.7	1.77	m_e	mb 4.9
BSEG	39.14		L	15:17:09.585						T__		856.9	18.40	a_e	
CLL	40.34		P	15:02:09.366		264.2		8.36		TAS		6.8	1.03	m_e	mb 4.2
CLL	40.34		L	15:16:11.459						T__		1058.5	21.00	a_e	
CLZ	38.79		P	15:01:56.930	-0.8	264.2		8.36		TAS		17.9	1.21	m_e	mb 4.6
FLT1	39.39		P	15:02:01.905		264.2		8.36		TAS		21.6	1.41	m_e	mb 4.6
FUR	38.95		L	15:14:49.688						T__		562.3	21.10	a_e	
GEC2	40.60		L	15:16:12.470						T__		540.6	19.60	a_e	
GRA1	39.04		P	15:01:59.749		264.2		8.36		TAS		47.8	1.49	m_e	mb 4.9
GRA1	39.04		L	15:15:37.609						T__		1216.0	20.00	a_e	
KAST	37.48		P	15:01:45.291	0.1	264.2		8.36		TAS		12.5	1.42	m_e	mb 4.4
MOX	39.40		P	15:02:01.478		264.2		8.36		TAS		9.0	1.31	m_e	mb 4.2
MOX	39.40		L	15:15:52.348						T__		1614.5	20.00	a_e	
NRDL	38.74		P	15:01:56.518	-0.3	264.2		8.36		TAS		27.8	1.39	m_e	mb 4.7
RJOB	39.95		P	15:02:07.528		264.2		8.36		TAS		23.0	1.38	m_e	mb 4.6
TNS	37.33		P	15:01:45.068	0.1	264.2		8.36		TAS		10.1	1.09	m_e	mb 4.5
TNS	37.33		L	15:14:29.725						T__		1421.9	20.80	a_e	
WET	40.08		P	15:02:07.692		264.2		8.36		TAS		5.0	0.94	m_e	mb 4.1
WET	40.08		L	15:15:45.675						T__		715.2	21.70	a_e	

Event 90529005 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/29	18:33:27.80			-20.9900	170.0400				80.0					144.81	149.01	m i ke	EMSC
OrigID 90529037																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.03		PKPbc	18:52:55.658		38.1		2.78		TAS					m_e
BFO	149.01		PKPbc	18:53:06.411		38.1		2.78		TAS					m_e
BFO	149.01		L	19:59:36.341						T__		113.6	18.40		a_e
CLL	144.81		PKP	18:52:54.213		38.1				TAS					m_e
CLL	144.81		L	19:56:45.082						T__		124.2	21.20		a_e
CLZ	145.38		PKPbc	18:52:56.946		38.1		2.78		TAS					m_e
FUR	147.96		L	19:57:01.922						T__		109.9	21.70		a_e
GEC2	146.38		PKPbc	18:52:59.448		38.1		2.78		TAS					m_e
GEC2	146.38		L	19:58:17.678						T__		92.7	19.00		a_e
GRA1	146.79		PKPbc	18:53:00.406		38.1		2.78		TAS					m_e
GRA1	146.79		L	19:57:24.385						T__		75.3	18.80		a_e
GTTG	145.76		PKPbc	18:52:57.648		38.1		2.78		TAS					m_e
IBBN	145.85		PKPbc	18:52:57.821		38.1		2.78		TAS					m_e
MOX	145.88		PKPbc	18:52:57.656		38.1		2.78		TAS					m_e
MOX	145.88		L	19:57:26.505						T__		62.1	19.30		a_e
NEUB	145.38		PKPbc	18:52:56.552		38.1		2.78		TAS					m_e
RJOB	147.61		PKPbc	18:53:02.750		38.1		2.78		TAS					m_e
ROTZ	146.33		PKPbc	18:52:59.434		38.1		2.78		TAS					m_e
TANN	145.72		PKPbc	18:52:57.287		38.1		2.78		TAS					m_e
TNS	147.40		PKPbc	18:53:02.410		38.1		2.78		TAS					m_e
TNS	147.40		L	19:59:14.609						T__		68.5	21.40		a_e
UBR	148.83		PKPbc	18:53:05.993		38.1		2.78		TAS					m_e
WET	146.52		PKPbc	18:52:59.446		38.1		2.78		TAS					m_e
WET	146.52		L	19:56:36.740						T__		73.3	21.10		a_e
WLF	148.65		PKPbc	18:53:06.061		38.1		2.78		TAS					m_e

Event 90529006 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/29	19:42:39.20			38.1250	37.8640				33.0					21.08	24.15	m i ke	BGR
OrigID 90529012																	

Magnitude Err Nsta Author OrigID

mb	4.3		BGR	90529012
Ms	3.2		BGR	90529012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	23.68		L	19:59:36.297						T__		113.6	18.40	a_e	Ms 3.4
CLL	21.91		L	19:56:45.050						T__		124.2	21.20	a_e	Ms 3.3
FUR	21.74		L	19:57:01.919						T__		109.9	21.70	a_e	Ms 3.2
GRA1	22.28		P	19:47:33.521		111.2		10.54		TAS		14.6	1.05	m_e	mb 4.3
GRA1	22.28		L	19:57:24.389						T__		75.3	18.80	a_e	Ms 3.1
MOX	22.41		L	19:57:26.541						T__		62.1	19.30	a_e	Ms 3.0
TNS	24.15		L	19:59:14.625						T__		68.5	21.40	a_e	Ms 3.1
WET	21.08		L	19:56:36.763						T__		73.3	21.10	a_e	Ms 3.0

Event 90529007 Northern Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/29	23:40:44.92			-4.9620	-75.5940				33.0					88.42	92.71	m i k e	BGR
OrigID 90529013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90529013
Ms	3.8		BGR	90529013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	89.63		P	23:53:37.769		255.4		5.42		TAS		11.0	1.53	m_e	mb 4.9
BUG	89.40		P	23:53:38.237		255.4		5.42		TAS		11.3	1.15	m_e	mb 5.0
GRA1	91.68		P	23:53:49.129		255.4		5.42		TAS		16.4	1.39	m_e	mb 5.2
GRA1	91.68		L	00:21:36.571						T__		37.0	19.00	a_e	Ms 3.9
MOX	92.03		L	00:20:14.789						T__		22.6	18.30	a_e	Ms 3.6
NRDL	91.28		P	23:53:46.653		255.4		5.42		TAS				m_e	
TANN	92.54		P	23:53:52.409		255.4		5.42		TAS		4.6	1.09	m_e	mb 4.8
UBR	90.74		P	23:53:43.355		255.4		5.42		TAS		7.1	0.82	m_e	mb 5.0
WET	92.71		P	23:53:52.745		255.4		5.42		TAS		2.3	0.95	m_e	mb 4.6
WLF	88.42		P	23:53:33.333		255.4		5.42		TAS		12.6	1.10	m_e	mb 5.2

Event 90530001 Honduras

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/05/30	09:03:31.38			13.2630	-87.3990				33.0					30	82.29	87.29	m i k e	BGR
OrigID 90530007																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	90530007
MBB	6.3		BGR	90530007
Ms	6.4		BGR	90530007

Magnitude	Err	Nsta	Author	OrigID
mb	6.5		BGR	90531008
MBB	6.8		BGR	90531008
Ms	5.5		BGR	90531008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	94.98		P	10:26:09.308	0.1	66.1		4.53		TAS		310.3	1.50	m_e	mb	6.5
BFO	97.96		P	10:26:22.261	-0.4	66.1		4.53		TAS		94.2	1.59	a_e	mb	6.3
BFO	97.96		L	11:18:14.196						T__		1499.2	20.00	a_e	Ms	5.5
BRG	93.59		P	10:26:02.911	0.0	66.1		4.53		TAS		462.8	1.47	a_e	mb	6.6
BSEG	94.42		P	10:26:06.461	-0.1	66.1		4.53		TAS		199.1	1.31	a_e	mb	6.3
BSEG	94.42		L	11:13:28.699						T__		1995.9	21.80	a_e	Ms	5.5
BUG	97.18		P	10:26:19.162	0.1	66.1		4.53		TAS		211.7	1.35	m_e	mb	6.6
CLL	93.98		P	10:26:04.361	-0.1	66.1		4.53		TAS		321.4	1.42	a_e	mb	6.5
CLL	93.98		L	11:15:50.876						T__		2410.5	21.10	a_e	Ms	5.6
CLZ	95.27		P	10:26:10.969	-0.3	66.1		4.53		TAS		464.8	1.52	m_e	mb	6.7
FLT1	94.58		P	10:26:07.034	0.3	66.1		4.53		TAS		309.2	1.57	m_e	mb	6.5
FUR	96.24		P	10:26:14.961	-0.4	66.1		4.53		TAS				a_e		
FUR	96.24		L	11:15:21.875						T__		2418.4	21.80	a_e	Ms	5.6
GEC2	94.49		P	10:26:07.061	-0.4	66.1		4.53		TAS		274.1	1.43	a_e	MBB	6.6
GEC2	94.49		L	11:18:54.213						T__		1364.4	19.50	a_e	Ms	5.4
GOR1	94.27		P	10:26:06.272	0.2	66.1		4.53		TAS		428.8	1.32	m_e	mb	6.6
GRA1	95.66		P	10:26:12.611	0.1	66.1		4.53		TAS		252.3	1.51	a_e	MBB	6.8
GRA1	95.66		L	11:15:09.078						T__		1712.6	21.70	a_e	Ms	5.5
GTTG	95.62		P	10:26:12.408	-0.3	66.1		4.53		TAS		386.1	1.42	m_e	mb	6.7
IBBN	96.52		P	10:26:16.261	0.0	66.1		4.53		TAS		346.8	1.31	m_e	mb	6.8
KAST	96.65		P	10:26:16.979	-0.0	66.1		4.53		TAS		213.5	1.41	m_e	mb	6.6
MANZ	95.02		P	10:26:09.711	0.4	66.1		4.53		TAS		76.2	1.60	a_e	mb	5.9
MOX	95.04		P	10:26:09.511	0.2	66.1		4.53		TAS		258.9	1.39	a_e	mb	6.5
MOX	95.04		L	11:14:21.342						T__		1724.0	20.50	a_e	Ms	5.5
NEUB	94.73		P	10:26:08.303	0.1	66.1		4.53		TAS		476.4	1.43	m_e	MBB	6.9
NRDL	95.14		P	10:26:10.239	-0.1	66.1		4.53		TAS		277.7	1.24	m_e	MBB	6.8
RETH	95.45		P	10:26:11.328	0.1	66.1		4.53		TAS		198.0	1.36	m_e	mb	6.4
RJOB	95.47		P	10:26:11.061		66.1		4.53		TAS		94.2	1.41	a_e	mb	6.0
ROTZ	95.04		P	10:26:09.811	0.3	66.1		4.53		TAS		90.5	1.51	a_e	mb	6.0
RUE	93.09		P	10:26:00.976	-0.6	66.1		4.53		TAS		987.3	1.59	m_e	mb	7.0
STU	97.25		P	10:26:19.411	0.0	66.1		4.53		TAS		636.6	1.72	a_e	mb	7.0
TANN	94.64		P	10:26:07.661	0.3	66.1		4.53		TAS		238.3	1.43	a_e	mb	6.4
TNS	97.06		P	10:26:18.861	0.3	66.1		4.53		TAS		187.5	1.34	a_e	mb	6.5
TNS	97.06		L	11:15:42.192						T__		2289.0	21.60	a_e	Ms	5.6
UBBA	95.91		P	10:26:13.596	0.0	66.1		4.53		TAS		259.1	1.54	m_e	mb	6.5
UBR	97.16		P	10:26:18.711		66.1		4.53		TAS		184.7	1.59	a_e	mb	6.5
WET	94.88		P	10:26:09.011	-0.1	66.1		4.53		TAS		230.5	1.44	a_e	MBB	6.7
WET	94.88		L	11:14:18.164						T__		2108.9	21.90	a_e	Ms	5.6
WLF	98.63		P	10:26:26.161	0.2	66.1		4.53		TAS		270.2	1.37	a_e	mb	6.8

Event 90531003 Eastern Kashmir

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/05/31	16:01:28.62			35.5080	75.9310				33.0					46.36	49.31	m i ke	BGR
OrigID 90531009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90531009
Ms	3.5		BGR	90531009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	46.36		P	16:09:50.587		86.0		6.87		TAS		3.2	0.75	m_e	mb	4.4
FLT1	47.89		P	16:10:01.680		86.0		6.87		TAS				m_e		
GRA1	48.24		P	16:10:05.439		86.0		6.87		TAS		3.8	0.55	m_e	mb	4.7
GRA1	48.24		L	16:32:53.385						T__		60.9	18.40	a_e	Ms	3.6
GTTG	48.77		P	16:10:09.496		86.0		6.87		TAS				m_e		
MOX	47.85		L	16:32:57.639						T__		40.5	21.10	a_e	Ms	3.4
UBR	49.31		P	16:10:14.077		86.0		6.87		TAS				m_e		

Event 90531004 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/05/31	22:58:10.88			35.5380	141.3840				33.0					11	81.38	86.60	m i ke	BGR
OrigID 90531010																		

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90531010
Ms	4.1		BGR	90531010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	86.60		P	23:10:49.018		38.7		5.08		TAS		16.4	1.29	m_e	mb	5.0
BFO	86.60		L	23:53:18.888						T__		50.4	19.10	a_e	Ms	3.9
BSEG	81.38		L	23:45:15.627						T__		91.4	19.60	a_e	Ms	4.1
CLL	82.38		P	23:10:27.576	0.4	38.7		5.08		TAS		10.4	1.05	m_e	mb	4.9
CLL	82.38		L	23:50:05.952						T__		87.2	19.10	a_e	Ms	4.1
CLZ	83.01		P	23:10:31.513		38.7		5.08		TAS		8.0	0.89	m_e	mb	5.0
FLT1	82.29		P	23:10:26.924	0.0	38.7		5.08		TAS		5.4	0.73	m_e	mb	4.8
FUR	85.52		P	23:10:43.759		38.7		5.08		TAS		12.1	0.81	m_e	mb	5.1
FUR	85.52		L	23:53:00.786						T__		69.3	19.60	a_e	Ms	4.1
GRA1	84.35		P	23:10:38.552		38.7		5.08		TAS		11.9	0.94	m_e	mb	5.1
GRA1	84.35		L	23:51:48.227						T__		59.5	19.90	a_e	Ms	4.0
IBBN	83.61		P	23:10:34.142		38.7		5.08		TAS		10.5	0.87	m_e	mb	5.1
MANZ	83.76		P	23:10:34.831		38.7		5.08		TAS		0.7	0.84	m_e	mb	3.9
MOX	83.45		L	23:52:57.915						T__		86.2	18.70	a_e	Ms	4.2
NEUB	82.96		P	23:10:30.865		38.7		5.08		TAS		12.5	1.08	m_e	mb	5.1

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Wed Jul 21 10:35:14 2021

52

RETH	82.68	P	23:10:29.566	-0.3	38.7	5.08	TAS	21.5	1.45	m_e	mb	5.2
ROTZ	83.89	P	23:10:36.056		38.7	5.08	TAS	1.3	0.88	m_e	mb	4.2
TNS	85.03	L	23:52:11.827				T__	60.7	20.00	a_e	Ms	4.0
WET	84.09	L	23:52:08.514				T__	122.2	19.70	a_e	Ms	4.3