

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

(produced by SZO/BGR - HANNOVER)

July 2019 UPDATED 19.July 2021

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

Event 90701001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/01	00:37:36.61			41.8280	142.9260				33.0			22		76.75	81.68	m i ke	BGR
OrigID 90701007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90701007
Ms	4.8		BGR	90701007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	81.68		P	00:49:49.807		34.5		5.46		TAS		52.7	1.45	m_e mb	5.5
BRG	77.52		P	00:49:27.427	0.0	34.5		5.46		TAS		28.6	1.33	m_e mb	5.2
BUG	79.42		P	00:49:37.749	-0.3	34.5		5.46		TAS		44.2	1.27	m_e mb	5.3
CLL	77.52		P	00:49:27.267	-0.2	34.5		5.46		TAS		42.9	1.19	m_e mb	5.5
CLZ	78.02		P	00:49:30.522	0.2	34.5		5.46		TAS		43.6	1.16	m_e mb	5.5
FLT1	77.32		P	00:49:26.002	-0.1	34.5		5.46		TAS		48.4	1.16	m_e mb	5.5
FUR	80.74		P	00:49:45.276		34.5		5.46		TAS		73.4	1.18	m_e mb	5.6
GEC2	79.25		P	00:49:36.898		34.5		5.46		TAS		101.6	2.70	m_e mb	5.4
GOR1	76.75		P	00:49:23.549	0.2	34.5		5.46		TAS		122.7	1.47	m_e mb	5.8
GRA1	79.50		P	00:49:38.576		34.5		5.46		TAS		67.2	1.15	m_e mb	5.6
GRA1	79.50		L	01:27:42.604						T__		411.8	20.40	a_e Ms	4.8
GTTG	78.41		P	00:49:32.753	-0.1	34.5		5.46		TAS		40.1	1.14	m_e mb	5.5
KAST	79.23		P	00:49:37.106	-0.0	34.5		5.46		TAS		29.2	1.24	m_e mb	5.2
MANZ	78.93		P	00:49:35.301	-0.5	34.5		5.46		TAS		3.8	1.05	m_e mb	4.4
MOX	78.57		P	00:49:33.141	0.2	34.5		5.46		TAS		31.5	1.32	m_e mb	5.2
MOX	78.57		L	01:27:14.338						T__		457.8	19.80	a_e Ms	4.8
NRDL	77.58		P	00:49:27.627	-0.5	34.5		5.46		TAS		53.4	1.50	m_e mb	5.5
RETH	77.63		P	00:49:28.329	-0.2	34.5		5.46		TAS		83.0	1.52	m_e mb	5.6
RJOB	80.50		P	00:49:44.024		34.5		5.46		TAS		39.9	1.18	m_e mb	5.3
ROTZ	79.07		P	00:49:36.308	0.1	34.5		5.46		TAS		7.8	1.23	m_e mb	4.6

./bul1907.txt

Wed Jul 21 10:35:31 2021

2

TANN	78.44	P	00:49:32.616	0.1	34.5	5.46	TAS	32.5	1.70	m_e mb	5.2
TNS	80.05	P	00:49:41.548	-0.1	34.5	5.46	TAS	26.8	1.22	m_e mb	5.0
UBBA	79.00	P	00:49:35.348	0.3	34.5	5.46	TAS	34.3	1.62	m_e mb	5.1
WET	79.32	P	00:49:37.522		34.5	5.46	TAS	41.9	1.29	m_e mb	5.3

Event 90701002 Afghanistan-Tajikistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/01	01:14:06.17			38.9560	71.8460				33.0			14		41.67	46.80	m i ke	BGR
OrigID 90701008																	

Magnitude Err Nsta Author OrigID  
 mb 4.6 BGR 90701008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	45.70	P		01:22:22.274	-0.5	80.3		8.06		TAS		13.5	0.91	m_e mb	5.0
BRG	41.67	P		01:21:50.117	-0.1	80.3		8.06		TAS		9.2	0.67	m_e mb	4.6
CLL	42.21	P		01:21:53.780	-0.7	80.3		8.06		TAS		8.2	0.69	m_e mb	4.6
FLT1	43.18	P		01:22:01.568	-0.4	80.3		8.06		TAS		15.9	1.02	m_e mb	4.7
GEC2	42.10	P		01:21:54.008	0.3	80.3		8.06		TAS		6.4	0.82	m_e mb	4.4
GRA1	43.57	P		01:22:06.155	0.5	80.3		8.06		TAS		19.4	0.86	m_e mb	4.9
IBBN	45.30	P		01:22:19.178	0.3	80.3		8.06		TAS		16.4	0.93	m_e mb	5.0
MOX	43.17	P		01:22:02.296	-0.0	80.3		8.06		TAS		7.1	0.88	m_e mb	4.4
NEUB	42.99	P		01:22:00.759	-0.1	80.3		8.06		TAS		25.2	1.24	m_e mb	4.8
NRDL	43.85	P		01:22:07.787	0.6	80.3		8.06		TAS		30.5	1.50	m_e mb	4.8
ROTZ	42.93	P		01:22:00.832	0.4	80.3		8.06		TAS		1.7	1.12	m_e mb	3.7
TANN	42.67	P		01:21:58.145	-0.2	80.3		8.06		TAS		4.0	0.83	m_e mb	4.2
WET	42.59	P		01:21:57.761	0.1	80.3		8.06		TAS		12.8	1.05	m_e mb	4.6
WLF	46.80	P		01:22:31.511	-0.1	80.3		8.06		TAS		21.8	0.94	m_e mb	5.3

Event 90701003 Off east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/01	03:24:29.00			52.6200	160.6400				32.1	0.4		9		72.92	76.70	m i ke	EMSC
OrigID 90701035																	

Magnitude Err Nsta Author OrigID  
 mb 4.7 BGR 90701009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	76.70	P		03:36:11.212		18.7		5.85		TAS		5.4	0.91	m_e mb	4.7
CLL	72.92	P		03:35:50.006	-0.0	18.7		5.85		TAS		10.0	1.11	m_e mb	4.9
CLZ	72.95	P		03:35:50.192	-0.7	18.7		5.85		TAS		11.8	1.08	m_e mb	4.9

./bul1907.txt Wed Jul 21 10:35:31 2021 3

GEC2	75.08	P	03:36:03.864	18.7	5.85	TAS	5.7	1.03	m_e	mb	4.5
GEC2	75.08	pP	03:36:13.155			T__				m_e	
GRA1	74.82	P	03:36:02.097	18.7	5.85	TAS	9.8	0.88	m_e	mb	4.8
IBBN	73.00	P	03:35:49.727	0.3	18.7	TAS	14.8	1.00	m_e	mb	5.1
MANZ	74.35	P	03:35:59.121	18.7	5.85	TAS	1.2	1.11	m_e	mb	3.8
MOX	73.83	P	03:35:55.773	-0.6	18.7	TAS	7.5	1.01	m_e	mb	4.7
MOX	73.83	pP	03:36:04.825			T__				m_e	
RJOB	76.33	P	03:36:11.491	18.7	5.85	TAS	8.9	0.88	m_e	mb	4.9
ROTZ	74.54	pP	03:36:09.684			T__				m_e	
TNS	74.87	pP	03:36:10.510			T__				m_e	

Event 90701008 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/01	16:59:26.30			9.2100	124.1800				554.0			23		94.86	100.40	m i ke	EMSC
90701040																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.3		BGR	90701014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	99.72		P	17:12:10.840		66.5		4.63		TAS		23.9	0.83	m_e	mb	5.9
BRG	95.36		P	17:11:51.672	0.1	66.5		4.63		TAS		173.9	0.75	m_e	mb	6.6
BSEG	96.20		P	17:11:55.353	0.1	66.5		4.63		TAS		69.7	0.78	m_e	mb	6.2
CLL	95.74		P	17:11:53.065	0.0	66.5		4.63		TAS		96.6	0.88	m_e	mb	6.3
FLT1	96.35		P	17:11:55.735	-0.2	66.5		4.63		TAS		81.8	0.91	m_e	mb	6.3
GEC2	96.25		P	17:11:55.718		66.5		4.63		TAS		31.5	0.73	m_e	mb	5.9
GOR1	96.05		P	17:11:54.886	0.1	66.5		4.63		TAS		283.2	1.11	m_e	mb	6.7
GRA1	97.42		P	17:12:01.156		66.5		4.63		TAS		88.1	0.83	m_e	mb	6.4
GTTG	97.39		P	17:12:01.056	0.2	66.5		4.63		TAS		55.9	0.73	m_e	mb	6.3
IBBN	98.29		P	17:12:05.130	0.1	66.5		4.63		TAS		162.4	0.89	m_e	mb	6.8
KAST	98.42		P	17:12:05.600	-0.1	66.5		4.63		TAS		60.6	1.07	m_e	mb	6.2
MANZ	96.78		P	17:11:58.172	0.2	66.5		4.63		TAS		16.0	0.94	m_e	mb	5.6
MOX	96.81		P	17:11:58.238	1.0	66.5		4.63		TAS		84.7	0.88	m_e	mb	6.4
NEUB	96.50		P	17:11:56.845	-0.1	66.5		4.63		TAS		196.3	0.85	m_e	mb	6.8
NRDL	96.92		P	17:11:58.916	-0.1	66.5		4.63		TAS		145.5	0.87	m_e	mb	6.6
RJOB	97.22		P	17:11:59.631		66.5		4.63		TAS		57.6	1.13	m_e	mb	6.1
ROTZ	96.81		P	17:11:58.570	-0.8	66.5		4.63		TAS		26.4	0.75	m_e	mb	5.9
RUE	94.86		P	17:11:49.500	-0.4	66.5		4.63		TAS		296.8	0.92	m_e	mb	6.7
TANN	96.40		P	17:11:56.248	0.1	66.5		4.63		TAS		91.4	0.88	m_e	mb	6.3
TNS	98.83		P	17:12:07.457	0.1	66.5		4.63		TAS		76.3	1.08	m_e	mb	6.3
UBBA	97.68		P	17:12:01.886	0.4	66.5		4.63		TAS		41.5	0.95	m_e	mb	6.1
WET	96.64		P	17:11:57.508		66.5		4.63		TAS		147.7	1.74	m_e	mb	6.3
WLF	100.40		P	17:12:15.881	-0.4	66.5		4.63		TAS		111.1	1.03	m_e	mb	6.4

Event 90701009 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/01	17:13:31.40			-15.4500	167.5300				123.0			18		137.60	140.53	m i ke	EMSC
OrigID 90701041																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	139.03		PKPdf	17:32:45.443	0.4	37.8		2.03		TAS					m_e
ASSE	147.12		SKPbc	17:36:10.626	0.3	35.0		2.68		TAS					m_e
BRG	138.77		PKPdf	17:32:44.494	-0.1	37.8		2.03		TAS					m_e
BRG	146.97		SKPbc	17:36:10.153	0.3	35.0		2.68		TAS					m_e
BSEG	137.66		PKPdf	17:32:42.662	-0.3	37.8		2.03		TAS					m_e
BSEG	145.68		SKPbc	17:36:06.943	-0.0	35.0		2.68		TAS					m_e
CLL	138.81		PKPdf	17:32:44.896	-0.4	37.8		2.03		TAS					m_e
CLL	146.98		SKPbc	17:36:10.118	0.1	35.0		2.68		TAS					m_e
CLZ	139.38		PKPdf	17:32:46.366	0.2	37.8		2.03		TAS					m_e
CLZ	147.46		SKPbc	17:36:11.896	0.1	35.0		2.68		TAS					m_e
FLT1	138.67		PKPdf	17:32:44.416	0.2	37.8		2.03		TAS					m_e
FLT1	146.76		SKPbc	17:36:09.356	0.0	35.0		2.68		TAS					m_e
GEC2	140.40		PKPdf	17:32:47.497		37.8		2.03		TAS					m_e
GEC2	148.64		SKPbc	17:36:14.436		35.0		2.68		TAS					m_e
GOR1	138.10		PKPdf	17:32:43.066	-0.2	37.8		2.03		TAS					m_e
GTTG	139.76		PKPdf	17:32:46.982	0.2	37.8		2.03		TAS					m_e
GTTG	147.84		SKPbc	17:36:12.658	-0.3	35.0		2.68		TAS					m_e
IBBN	139.87		PKPdf	17:32:47.071	-0.1	37.8		2.03		TAS					m_e
IBBN	147.85		SKPbc	17:36:12.658	0.1	35.0		2.68		TAS					m_e
MANZ	140.20		PKPdf	17:32:47.422		37.8		2.03		TAS					m_e
MANZ	148.38		SKPbc	17:36:14.182		35.0		2.68		TAS					m_e
MOX	139.88		PKPdf	17:32:46.426	-0.4	37.8		2.03		TAS					m_e
NRDL	138.93		PKPdf	17:32:44.942	0.1	37.8		2.03		TAS					m_e
RETH	138.98		PKPdf	17:32:45.045	-0.2	37.8		2.03		TAS					m_e
ROTZ	140.33		PKPdf	17:32:47.708		37.8		2.03		TAS					m_e
ROTZ	148.52		SKPbc	17:36:14.436		35.0		2.68		TAS					m_e
RUE	137.60		PKPdf	17:32:42.362	-0.1	37.8		2.03		TAS					m_e
STU	150.46		SKPbc	17:36:19.263		35.0		2.68		TAS					m_e
TANN	139.72		PKPdf	17:32:47.084		37.8		2.03		TAS					m_e
TANN	147.90		SKPbc	17:36:12.785	-0.2	35.0		2.68		TAS					m_e
TNS	149.47		SKPbc	17:36:17.104		35.0		2.68		TAS					m_e
WET	140.53		PKPdf	17:32:48.418		37.8		2.03		TAS					m_e
WLF	150.66		SKPbc	17:36:20.406		35.0		2.68		TAS					m_e

Event 90702002 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/02	19:30:06.65			60.5670	-153.4420				33.0			17		65.11	71.48	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90702008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	70.46		P	19:41:15.470		352.0		6.21		TAS		5.9	0.92	m_e	mb	4.7
BRG	68.45		P	19:41:03.336	-0.3	352.0		6.21		TAS		10.9	0.99	m_e	mb	5.0
BSEG	65.11		P	19:40:42.504	0.0	352.0		6.21		TAS		21.3	0.90	m_e	mb	5.4
BUG	67.27		P	19:40:55.950	0.2	352.0		6.21		TAS		14.1	0.80	m_e	mb	5.2
CLL	67.95		P	19:41:00.031	0.2	352.0		6.21		TAS		10.8	1.08	m_e	mb	5.0
CLZ	67.19		P	19:40:55.990	-0.1	352.0		6.21		TAS		28.4	1.14	m_e	mb	5.4
FLT1	66.79		P	19:40:52.565	-0.0	352.0		6.21		TAS		18.5	1.27	m_e	mb	5.2
GEC2	70.45		P	19:41:15.792		352.0		6.21		TAS		5.9	0.90	m_e	mb	4.7
GRA1	69.40		P	19:41:09.529		352.0		6.21		TAS		13.8	1.08	m_e	mb	5.1
GTTG	67.45		P	19:40:57.663	0.0	352.0		6.21		TAS		24.1	0.80	m_e	mb	5.5
IBBN	66.47		P	19:40:51.066	-0.2	352.0		6.21		TAS		14.8	0.87	m_e	mb	5.2
MOX	68.49		P	19:41:03.829		352.0		6.21		TAS		13.0	0.70	m_e	mb	5.3
RJOB	71.48		P	19:41:21.893		352.0		6.21		TAS		11.6	0.89	m_e	mb	5.0
ROTZ	69.41		P	19:41:09.584		352.0		6.21		TAS		3.3	1.08	m_e	mb	4.5
TANN	68.79		P	19:41:05.409		352.0		6.21		TAS		14.2	1.31	m_e	mb	5.0
TNS	68.60		P	19:41:04.339		352.0		6.21		TAS		7.0	0.76	m_e	mb	5.0
WET	70.09		P	19:41:13.861		352.0		6.21		TAS		8.2	1.10	m_e	mb	4.8

Event 90703001 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/03	01:02:13.40	5.85		34.9800	27.8000	183.5	32.2	136	0.0	0.0		9		17.34	20.76	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
BFO	19.66		Pn	01:06:37.686						T__				m_e	
FUR	18.01		Pn	01:06:18.963						T__				m_e	
GEC2	17.34		Pn	01:06:10.909						T__				m_e	
GRA1	19.08		Pn	01:06:31.611						T__				m_e	
MOX	19.58		Pn	01:06:38.134						T__				m_e	
OBER	18.05		Pn	01:06:21.520						T__				m_e	
ROTZ	18.68		Pn	01:06:26.519						T__				m_e	
TNS	20.76		Pn	01:06:52.164						T__				m_e	
WET	17.93		Pn	01:06:17.859						T__				m_e	

Event 90703002 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/03	03:44:21.79			-23.9600	-178.9700				33.0				26	149.91	155.00	m i ke	BGR
OrigID 90703008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	150.92		PKPbc	04:04:11.152	0.2	19.3		2.26		TAS					m_e
BFO	155.00		PKPbc	04:04:20.099		19.3		2.26		TAS					m_e
BRG	151.33		PKPbc	04:04:12.370	0.1	19.3		2.26		TAS					m_e
BUG	152.15		PKPbc	04:04:13.751	0.1	19.3		2.26		TAS					m_e
CLL	151.18		PKPbc	04:04:11.749	0.1	19.3		2.26		TAS					m_e
CLZ	151.25		PKPbc	04:04:12.325	-0.3	19.3		2.26		TAS					m_e
FLT1	150.62		PKPbc	04:04:10.185	0.4	19.3		2.26		TAS					m_e
FUR	154.51		PKPbc	04:04:19.064		19.3		2.26		TAS					m_e
GEC2	153.23		PKPbc	04:04:16.448	-0.3	19.3		2.26		TAS					m_e
GOR1	149.98		PKPbc	04:04:08.878	-0.1	19.3		2.26		TAS					m_e
GTTG	151.61		PKPbc	04:04:12.946	-0.0	19.3		2.26		TAS					m_e
IBBN	151.23		PKPbc	04:04:11.931	0.0	19.3		2.26		TAS					m_e
KAST	152.21		PKPbc	04:04:14.214	0.2	19.3		2.26		TAS					m_e
MANZ	152.62		PKPbc	04:04:15.305	0.3	19.3		2.26		TAS					m_e
MOX	152.12		PKPbc	04:04:13.933	0.1	19.3		2.26		TAS					m_e
NEUB	151.57		PKPbc	04:04:12.745	-0.1	19.3		2.26		TAS					m_e
NRDL	150.68		PKPbc	04:04:10.477	-0.1	19.3		2.26		TAS					m_e
RETH	150.57		PKPbc	04:04:10.271	-0.2	19.3		2.26		TAS					m_e
ROTZ	152.79		PKPbc	04:04:15.488	-0.0	19.3		2.26		TAS					m_e
RUE	149.91		PKPbc	04:04:08.722	-0.3	19.3		2.26		TAS					m_e
STU	154.41		PKPbc	04:04:19.086		19.3		2.26		TAS					m_e
TANN	152.13		PKPbc	04:04:14.208	0.3	19.3		2.26		TAS					m_e
TNS	153.15		PKPbc	04:04:16.310	0.0	19.3		2.26		TAS					m_e
UBBA	152.30		PKPbc	04:04:14.116	0.3	19.3		2.26		TAS					m_e
WET	153.19		PKPbc	04:04:16.397	-0.3	19.3		2.26		TAS					m_e
WLF	154.03		PKPbc	04:04:18.687	-0.2	19.3		2.26		TAS					m_e

Event 90703003 Beaufort Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/03	04:38:46.36			71.9960	-143.6520				15.6	0.7			15	53.04	59.42	m i ke	BGR
OrigID 90703009																	

Magnitude Err Nsta Author OrigID

mb 4.8 BGR 90703009  
 Ms 4.4 BGR 90703009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	58.36		P	04:48:40.005		351.0		7.09		TAS		5.4	0.91	m_e	mb 4.6
BFO	58.36		pP	04:48:44.400	0.2					T__				m_e	
BRG	56.42		P	04:48:26.782	-0.2	351.0		7.09		TAS		9.7	0.86	m_e	mb 4.8
BRG	56.42		pP	04:48:30.964	0.2					T__				m_e	
BSEG	53.04		P	04:48:02.133	-0.6	351.0		7.09		TAS		14.0	0.87	m_e	mb 4.9
CLL	55.90		P	04:48:22.638	0.3	351.0		7.09		TAS		11.1	0.78	m_e	mb 5.0
CLL	55.90		pP	04:48:27.117	0.2					T__				m_e	
CLZ	55.11		P	04:48:17.057	-0.3	351.0		7.09		TAS		20.4	0.88	m_e	mb 5.2
GEC2	58.40		P	04:48:40.876		351.0		7.09		TAS		9.8	0.90	m_e	mb 4.8
GEC2	58.40		pP	04:48:45.072	0.2					T__				m_e	
GRA1	57.33		L	05:17:45.015						T__		312.4	19.90	a_e	Ms 4.4
GTTG	55.36		P	04:48:20.050	-0.1	351.0		7.09		TAS		20.4	0.78	m_e	mb 5.2
IBBN	54.37		P	04:48:12.431	0.4	351.0		7.09		TAS		28.5	0.84	m_e	mb 5.3
IBBN	54.37		pP	04:48:16.735	0.2					T__				m_e	
MOX	56.42		P	04:48:26.609	-0.1	351.0		7.09		TAS		7.5	0.85	m_e	mb 4.7
MOX	56.42		L	05:16:55.144						T__		267.8	20.20	a_e	Ms 4.3
NRDL	54.44		P	04:48:12.632	-0.0	351.0		7.09		TAS		11.9	0.86	m_e	mb 4.9
RJOB	59.42		P	04:48:47.393		351.0		7.09		TAS		13.7	0.84	m_e	mb 5.0
ROTZ	57.35		P	04:48:33.204	-0.5	351.0		7.09		TAS		1.0	0.84	m_e	mb 3.9
ROTZ	57.35		pP	04:48:37.513	0.2					T__				m_e	
TANN	56.73		P	04:48:29.076	0.2	351.0		7.09		TAS		9.1	0.93	m_e	mb 4.8
TANN	56.73		pP	04:48:33.279	0.2					T__				m_e	
TNS	56.50		P	04:48:27.114	0.3	351.0		7.09		TAS		7.4	0.86	m_e	mb 4.7
WET	58.03		P	04:48:38.416		351.0		7.09		TAS		8.3	1.02	m_e	mb 4.7

Event 90704002 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/04	02:18:02.08			28.0940	104.5230				33.0			29		68.68	74.19	m i ke	BGR
90704008																	

Magnitude Err Nsta Author OrigID  
 mb 5.6 BGR 90704008  
 Ms 4.5 BGR 90704008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	70.59		P	02:29:12.552	-0.3	68.7		6.07		TAS		31.5	1.19	a_e	mb 5.3
BFO	73.42		P	02:29:29.652	-0.5	68.7		6.07		TAS		53.5	1.14	a_e	mb 5.6
BRG	69.10		P	02:29:03.552	-0.3	68.7		6.07		TAS		29.8	1.01	a_e	mb 5.5
BSEG	70.16		P	02:29:10.502	0.5	68.7		6.07		TAS		107.0	1.16	a_e	mb 5.9
BUG	72.81		P	02:29:26.202	-0.1	68.7		6.07		TAS		53.6	1.12	a_e	mb 5.6
CLL	69.52		P	02:29:05.852	-0.6	68.7		6.07		TAS		50.3	1.20	a_e	mb 5.5

CLZ	70.87	P	02:29:14.752	0.2	68.7	6.07	TAS	58.2	1.05	a_e	mb	5.6
FLT1	70.20	P	02:29:09.752	-0.7	68.7	6.07	TAS	57.9	1.21	a_e	mb	5.6
FUR	71.67	P	02:29:19.952	0.4	68.7	6.07	TAS	146.9	1.14	a_e	mb	6.0
GEC2	69.92	P	02:29:08.952	0.1	68.7	6.07	TAS	36.4	1.07	m_e	mb	5.4
GOR1	69.93	P	02:29:09.102	0.3	68.7	6.07	TAS	129.5	1.33	a_e	mb	5.9
GRA1	71.14	P	02:29:16.702	0.4	68.7	6.07	TAS	77.0	1.15	a_e	mb	5.7
GRA1	71.14	L	03:01:52.071				T__	363.0	20.40	a_e	Ms	4.6
GTTG	71.21	P	02:29:16.702	0.0	68.7	6.07	TAS	51.3	1.03	a_e	mb	5.6
IBBN	72.19	P	02:29:22.502	0.0	68.7	6.07	TAS	78.1	1.28	a_e	mb	5.7
KAST	72.24	P	02:29:22.902	0.0	68.7	6.07	TAS	27.3	1.40	a_e	mb	5.2
MANZ	70.50	P	02:29:12.702	0.3	68.7	6.07	TAS	10.9	1.32	a_e	mb	4.8
MOX	70.57	P	02:29:12.702	-0.1	68.7	6.07	TAS	42.2	1.33	a_e	mb	5.4
MOX	70.57	L	03:01:42.866				T__	222.3	18.10	a_e	Ms	4.5
NEUB	70.28	P	02:29:10.752	-0.3	68.7	6.07	TAS	87.7	1.16	a_e	mb	5.8
NRDL	70.79	P	02:29:14.502	0.5	68.7	6.07	TAS	92.7	1.24	a_e	mb	5.8
RETH	71.12	P	02:29:16.202	0.2	68.7	6.07	TAS	56.6	1.35	a_e	mb	5.5
RJOB	70.87	P	02:29:14.902	0.3	68.7	6.07	TAS	27.4	1.07	a_e	mb	5.3
ROTZ	70.52	P	02:29:12.852	0.3	68.7	6.07	TAS	15.1	1.07	a_e	mb	5.0
RUE	68.68	P	02:29:01.002	-0.3	68.7	6.07	TAS	172.2	1.50	a_e	mb	6.1
STU	72.72	P	02:29:25.652	-0.3	68.7	6.07	TAS	146.0	1.14	a_e	mb	6.0
TANN	70.14	P	02:29:10.102	-0.1	68.7	6.07	TAS	35.4	1.19	a_e	mb	5.4
TNS	72.61	P	02:29:25.002	-0.2	68.7	6.07	TAS	43.7	1.14	a_e	mb	5.5
UBBA	71.46	P	02:29:18.052	-0.2	68.7	6.07	TAS	52.1	1.48	a_e	mb	5.5
WET	70.33	P	02:29:11.602	0.2	68.7	6.07	TAS	47.1	1.27	a_e	mb	5.5
WLF	74.19	P	02:29:34.852	0.1	68.7	6.07	TAS	118.2	1.12	a_e	mb	5.8

Event 90704003 Queen Charlotte Islands, Canada, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/04	04:30:53.74			51.5550	-131.1210				16.8	1.1		18		70.04	76.36	m i ke	BGR
	90704009																

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90704009
MBB	6.4		BGR	90704009
Ms	6.3		BGR	90704009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	71.78		P	04:42:10.812	0.1	336.7		5.86		TAS		285.5	2.21	m_e	MBB 6.5
BRG	73.74		P	04:42:22.336	0.1	336.7		5.86		TAS		223.1	2.08	m_e	MBB 6.3
BSEG	70.04		P	04:42:00.935	0.1	336.7		5.86		TAS		170.3	1.63	m_e	MBB 6.5
CLL	73.11		P	04:42:18.853	-0.1	336.7		5.86		TAS		548.5	3.07	m_e	MBB 6.4
FLT1	71.74		P	04:42:10.534	-0.2	336.7		5.86		TAS				m_e	
GEC2	75.56		P	04:42:32.811		336.7		5.86		TAS		61.4	1.63	m_e	MBB 6.3
GOR1	71.15		P	04:42:07.450	0.2	336.7		5.86		TAS		315.6	1.86	m_e	MBB 6.6
GRA1	74.16		P	04:42:25.366		336.7		5.86		TAS		54.8	1.10	m_e	MBB 6.3



GRA1	74.16	pP	04:42:29.829							T__					m_e		
GRA1	74.16	L	05:14:58.387							T__	14373.4	20.90			m_e Ms		6.2
GTTG	72.13	P	04:42:13.152	0.2	336.7			5.86		TAS	50.0	1.13			m_e MBB		6.4
GTTG	72.13	pP	04:42:18.177							T__					m_e		
IBBN	70.87	P	04:42:05.589	-0.2	336.7			5.86		TAS	109.2	1.37			m_e MBB		6.6
IBBN	70.87	pP	04:42:10.258							T__					m_e		
KAST	72.04	P	04:42:12.719	0.2	336.7			5.86		TAS	167.9	2.31			m_e MBB		6.3
MOX	73.38	L	05:14:03.164							T__	18493.6	21.00			a_e Ms		6.3
RETH	70.89	P	04:42:05.821	-0.0	336.7			5.86		TAS	295.8	2.01			m_e MBB		6.5
RJOB	76.36	P	04:42:37.930		336.7			5.86		TAS	17.2	0.81			m_e MBB		6.2
TANN	73.80	P	04:42:23.039	-0.3	336.7			5.86		TAS	18.2	1.16			m_e MBB		6.2
TNS	72.94	P	04:42:17.455	0.0	336.7			5.86		TAS	20.7	0.97			m_e MBB		6.3
TNS	72.94	pP	04:42:22.465							T__					m_e		
UBBA	72.81	P	04:42:16.912	0.4	336.7			5.86		TAS	170.0	1.95			m_e MBB		6.3
WET	75.08	P	04:42:30.484		336.7			5.86		TAS	38.1	1.50			m_e MBB		6.2
WLF	72.80	P	04:42:16.989		336.7			5.86		TAS	155.5	1.93			m_e MBB		6.4

Event 90704001 Central California, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/04	17:33:54.99			35.2990	-118.1240				33.0			28		80.61	86.40	m i ke	BGR
90704007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	90704007
MBB	6.0		BGR	90704007
Ms	6.7		BGR	90704007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	82.13		P	17:46:12.592	-0.4	320.6		5.09		TAS		1220.4	3.37	m_e	MBB 6.2	
BFO	84.03		P	17:46:22.151		320.6		5.09		TAS		31.9	0.98	m_e	MBB 6.1	
BRG	84.39		P	17:46:24.027	0.3	320.6		5.09		TAS		158.0	1.78	m_e	MBB 6.2	
BSEG	80.61		P	17:46:04.347	0.0	320.6		5.09		TAS		67.6	1.27	m_e	MBB 5.9	
BUG	81.25		P	17:46:07.671	0.0	320.6		5.09		TAS		21.2	1.08	m_e	MBB 5.9	
CLL	83.68		P	17:46:20.213	0.0	320.6		5.09		TAS		43.9	1.21	m_e	MBB 6.1	
CLZ	82.23		P	17:46:13.111	-0.2	320.6		5.09		TAS		48.7	0.94	m_e	MBB 6.1	
FLT1	82.19		P	17:46:12.705	0.7	320.6		5.09		TAS		40.1	0.99	m_e	MBB 6.0	
FUR	85.43		P	17:46:29.713		320.6		5.09		TAS		49.4	0.96	m_e	MBB 6.3	
GEC2	85.90		P	17:46:31.424	0.4	320.6		5.09		TAS		34.9	1.40	m_e	MBB 5.8	
GOR1	81.71		P	17:46:10.844	-0.3	320.6		5.09		TAS		55.4	1.23	m_e	MBB 6.3	
GRA1	84.22		P	17:46:22.026	0.0	320.6		5.09		TAS		69.7	1.06	m_e	mb 5.8	
GRA1	84.22		L	18:22:16.423						T__	31571.1	20.70		a_e	Ms 6.7	
GTTG	82.29		P	17:46:14.017	-0.1	320.6		5.09		TAS		26.7	1.00	m_e	mb 5.3	
IBBN	80.81		P	17:46:05.721	0.1	320.6		5.09		TAS				m_e		
KAST	81.91		P	17:46:11.297	0.2	320.6		5.09		TAS		42.4	1.43	m_e	MBB 6.0	
MANZ	84.36		P	17:46:23.992	-1.2	320.6		5.09		TAS		21.9	1.69	m_e	MBB 5.5	

MOX	83.65	P	17:46:20.364	0.1	320.6	5.09	TAS	164.2	1.92	m_e	MBB	6.1
MOX	83.65	L	18:28:08.307				T__	30824.0	18.30	m_e	Ms	6.7
NEUB	83.28	P	17:46:18.399	0.1	320.6	5.09	TAS	123.4	1.52	m_e	MBB	6.3
NRDL	81.62	P	17:46:09.592	-0.1	320.6	5.09	TAS	56.3	1.22	m_e	MBB	6.1
RETH	81.14	P	17:46:07.520	-0.1	320.6	5.09	TAS	23.2	1.03	m_e	MBB	6.0
RJOB	86.40	P	17:46:34.114		320.6	5.09	TAS	21.6	1.33	m_e	MBB	5.8
ROTZ	84.57	P	17:46:25.294	0.0	320.6	5.09	TAS	6.1	1.08	m_e	MBB	5.5
STU	84.07	P	17:46:22.439	-0.2	320.6	5.09	TAS	58.9	0.91	m_e	MBB	6.5
TANN	84.17	P	17:46:23.153	0.3	320.6	5.09	TAS	512.1	2.81	m_e	MBB	6.1
TNS	82.66	P	17:46:15.528	0.1	320.6	5.09	TAS	148.4	2.17	m_e	MBB	6.1
UBBA	82.86	P	17:46:16.470	0.3	320.6	5.09	TAS	339.0	2.48	m_e	MBB	6.2
WET	85.33	P	17:46:28.820	-0.0	320.6	5.09	TAS	20.6	1.09	m_e	MBB	5.9
WLF	82.07	P	17:46:12.280	-0.3	320.6	5.09	TAS	44.5	0.87	m_e	MBB	6.1

Event 90704006 New Ireland, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/04	19:22:00.90			-4.6200	153.2400				60.0			25		122.33	127.20	m i ke	EMSC
	90704038																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	123.43		PKPdf	19:40:52.347	0.0	48.4		1.92		TAS					m_e
BFO	127.15		PKPdf	19:40:59.058		48.4		1.92		TAS					m_e
BRG	122.73		PKPdf	19:40:50.969	0.2	48.4		1.92		TAS					m_e
BSEG	122.33		PKPdf	19:40:50.291	-0.1	48.4		1.92		TAS					m_e
BUG	125.41		PKPdf	19:40:55.822	-0.4	48.4		1.92		TAS					m_e
CLL	122.91		PKPdf	19:40:51.029	-0.1	48.4		1.92		TAS					m_e
CLZ	123.77		PKPdf	19:40:53.246	0.3	48.4		1.92		TAS					m_e
FLT1	123.04		PKPdf	19:40:51.328	-0.2	48.4		1.92		TAS					m_e
GEC2	124.13		PKPdf	19:40:53.485	-0.2	48.4		1.92		TAS					m_e
GOR1	122.56		PKPdf	19:40:50.801	0.1	48.4		1.92		TAS					m_e
GRA1	124.83		PKPdf	19:40:54.804	0.1	48.4		1.92		TAS					m_e
GTTG	124.15		PKPdf	19:40:53.785	0.1	48.4		1.92		TAS					m_e
IBBN	124.57		PKPdf	19:40:54.445	-0.2	48.4		1.92		TAS					m_e
KAST	125.08		PKPdf	19:40:55.583	0.1	48.4		1.92		TAS					m_e
MANZ	124.20		PKPdf	19:40:53.845	0.0	48.4		1.92		TAS					m_e
MOX	124.00		PKPdf	19:40:53.186	0.1	48.4		1.92		TAS					m_e
NEUB	123.56		PKPdf	19:40:52.527	0.1	48.4		1.92		TAS					m_e
NRDL	123.43		PKPdf	19:40:52.490	0.1	48.4		1.92		TAS					m_e
RETH	123.58		PKPdf	19:40:52.624	-0.1	48.4		1.92		TAS					m_e
RJOB	125.30		PKPdf	19:40:55.163		48.4		1.92		TAS					m_e
ROTZ	124.30		PKPdf	19:40:53.785	0.5	48.4		1.92		TAS					m_e
TANN	123.75		PKPdf	19:40:52.826	0.1	48.4		1.92		TAS					m_e
TNS	125.77		PKPdf	19:40:56.901	0.2	48.4		1.92		TAS					m_e

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Wed Jul 21 10:35:31 2021

11

WET	124.36	PKPdf	19:40:54.025	0.1	48.4	1.92	TAS	m_e
WLF	127.20	PKPdf	19:41:00.077	-0.0	48.4	1.92	TAS	m_e

Event 90705004 California-Nevada border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/05	11:08:00.25			36.1200	-117.9580				10.0	12.1		22		79.82	85.12	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90705010
Ms	5.3		BGR	90705010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	81.35		P	11:20:15.331	0.0	320.9		5.16		TAS		28.2	1.13	a_e mb	5.2
BFO	83.26		P	11:20:24.881	-0.1	320.9		5.16		TAS		39.4	1.41	a_e mb	5.5
BRG	83.60		P	11:20:26.981		320.9		5.16		TAS		62.3	1.43	a_e mb	5.6
BSEG	79.82		P	11:20:07.281	-0.2	320.9		5.16		TAS		46.8	1.34	a_e mb	5.2
BUG	80.48		P	11:20:10.281	-0.0	320.9		5.16		TAS		51.6	1.53	a_e mb	5.2
CLL	82.89		P	11:20:23.081	0.1	320.9		5.16		TAS		36.6	1.33	a_e mb	5.4
CLZ	81.45		P	11:20:16.131	0.1	320.9		5.16		TAS		32.1	1.17	a_e mb	5.2
FLT1	81.41		P	11:20:15.722	0.1	320.9		5.16		TAS		30.7	1.32	m_e mb	5.2
GEC2	85.12		P	11:20:34.546		320.9		5.16		TAS		24.5	1.44	m_e mb	5.2
GRA1	83.45		P	11:20:26.631		320.9		5.16		TAS		52.4	1.15	a_e mb	5.7
GRA1	83.45		L	11:56:04.696						T__		1966.5	21.00	a_e Ms	5.5
IBBN	80.04		P	11:20:08.381	0.2	320.9		5.16		TAS		74.8	1.65	a_e mb	5.4
KAST	81.14		P	11:20:13.981	0.3	320.9		5.16		TAS		23.8	1.46	a_e mb	5.0
MANZ	83.58		P	11:20:26.731		320.9		5.16		TAS		5.8	1.22	a_e mb	4.7
MOX	82.87		P	11:20:23.281	-0.1	320.9		5.16		TAS		55.7	1.45	a_e mb	5.6
MOX	82.87		L	11:56:12.319						T__		912.3	19.20	a_e Ms	5.2
NRDL	80.84		P	11:20:12.681	0.5	320.9		5.16		TAS		36.1	1.32	a_e mb	5.2
RETH	80.36		P	11:20:10.431	-0.6	320.9		5.16		TAS		38.1	1.39	a_e mb	5.1
ROTZ	83.79		P	11:20:27.881		320.9		5.16		TAS		8.3	1.42	m_e mb	4.8
STU	83.30		P	11:20:25.481	-0.2	320.9		5.16		TAS		276.1	1.90	a_e mb	6.2
TANN	83.39		P	11:20:25.781		320.9		5.16		TAS		43.9	1.48	a_e mb	5.5
TNS	81.89		P	11:20:18.131	-0.3	320.9		5.16		TAS		6.7	0.94	a_e mb	4.8
UBBA	82.08		P	11:20:19.231	0.1	320.9		5.16		TAS		44.4	1.66	a_e mb	5.3
WLF	81.31		P	11:20:15.627	0.1	320.9		5.16		TAS		47.1	1.42	m_e mb	5.3

Event 90705005 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
2019/07/05	11:26:13.84			38.0720	142.8710				33.0			10		80.62	84.96	m i ke	BGR

90705011

Magnitude Err Nsta Author OrigID  
 mb 4.8 BGR 90705011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.96		P	11:38:44.131		36.4		5.21		TAS		12.5	0.88	m_e mb	5.2
CLL	80.77		P	11:38:22.440		36.4		5.21		TAS		9.9	0.82	m_e mb	4.9
FLT1	80.62		P	11:38:21.520	-0.3	36.4		5.21		TAS		17.4	0.80	m_e mb	5.1
GEC2	82.43		P	11:38:30.919		36.4		5.21		TAS				m_e	
IBBN	81.87		P	11:38:28.565	-0.4	36.4		5.21		TAS		13.6	0.64	m_e mb	5.2
MANZ	82.16		P	11:38:30.024		36.4		5.21		TAS		1.1	0.80	m_e mb	4.0
RJOB	83.68		P	11:38:37.992		36.4		5.21		TAS		8.3	0.91	m_e mb	5.0
ROTZ	82.30		P	11:38:30.890		36.4		5.21		TAS		1.1	0.77	m_e mb	4.0
TNS	83.35		P	11:38:36.035		36.4		5.21		TAS		4.9	0.73	m_e mb	4.8
WET	82.53		P	11:38:32.018		36.4		5.21		TAS		4.2	0.87	m_e mb	4.7

Event 90705006 Komandorsky Islands, Russia, region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2019/07/05 14:33:49.30 55.1050 164.1790 23.2 3.8 11 71.22 74.96 m i ke BGR  
 90705012

Magnitude Err Nsta Author OrigID  
 mb 4.8 BGR 90705012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.96		P	14:45:26.140		15.8		5.94		TAS		11.1	1.10	m_e mb	4.8
BFO	74.96		pP	14:45:32.578		15.8		5.94		TAS				m_e	
CLL	71.27		P	14:45:03.920		15.8		5.94		TAS		14.1	1.03	m_e mb	5.0
CLL	71.27		pP	14:45:10.531		15.8		5.94		TAS				m_e	
CLZ	71.22		P	14:45:05.357	0.5	15.8		5.94		TAS		23.8	1.21	m_e mb	5.2
CLZ	71.22		pP	14:45:10.948		15.8		5.94		TAS				m_e	
GEC2	73.50		P	14:45:18.112		15.8		5.94		TAS				m_e	
GEC2	73.50		pP	14:45:24.595		15.8		5.94		TAS				m_e	
GRA1	73.15		P	14:45:16.303		15.8		5.94		TAS				m_e	
MANZ	72.71		P	14:45:13.193		15.8		5.94		TAS		3.5	1.24	m_e mb	4.3
MANZ	72.71		pP	14:45:19.764		15.8		5.94		TAS				m_e	
MOX	72.16		P	14:45:10.064		15.8		5.94		TAS		11.7	1.12	m_e mb	4.9
MOX	72.16		pP	14:45:16.309		15.8		5.94		TAS				m_e	
RJOB	74.73		P	14:45:25.815		15.8		5.94		TAS		13.8	0.87	m_e mb	5.0
RJOB	74.73		pP	14:45:33.504		15.8		5.94		TAS				m_e	
ROTZ	72.90		P	14:45:14.015		15.8		5.94		TAS		3.5	1.24	m_e mb	4.4
ROTZ	72.90		pP	14:45:21.050		15.8		5.94		TAS				m_e	
TANN	72.23		P	14:45:10.634		15.8		5.94		TAS				m_e	
WET	73.37		P	14:45:17.341		15.8		5.94		TAS		16.3	1.14	m_e mb	5.1

WET 73.37 pP 14:45:24.051 15.8 5.94 TAS m\_e

Event 90705007 Bay of Bengal

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/05	17:08:22.13		7.9350	87.8020				23.2	0.8		20	73.61	77.68	m	i	ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90705013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	77.12		P	17:20:11.968		95.1		5.75		TAS		7.2	0.91	m_e	mb	4.8
BRG	73.71		P	17:19:52.518	0.0	95.1		5.75		TAS		15.6	1.34	a_e	mb	4.9
BSEG	76.26		P	17:20:06.611	0.6	95.1		5.75		TAS		8.6	0.76	m_e	mb	5.0
CLL	74.35		P	17:19:55.973	0.5	95.1		5.75		TAS		6.5	1.06	m_e	mb	4.6
CLZ	76.04		P	17:20:05.918	0.1	95.1		5.75		TAS		9.8	0.77	a_e	mb	5.0
FUR	75.14		P	17:20:00.111		95.1		5.75		TAS		14.1	0.63	m_e	mb	5.2
GEC2	73.61		P	17:19:51.868		95.1		5.75		TAS		16.3	0.93	m_e	mb	5.0
GEC2	73.61		pP	17:19:58.276		95.1		5.75		TAS				m_e		
GOR1	75.58		P	17:20:02.952	0.0	95.1		5.75		TAS		18.8	1.08	m_e	mb	5.1
GRA1	75.31		P	17:20:02.318		95.1		5.75		TAS		8.6	0.79	a_e	mb	4.8
GTTG	76.27		P	17:20:07.397	0.0	95.1		5.75		TAS		13.5	1.10	m_e	mb	5.0
IBBN	77.68		P	17:20:15.318	-0.3	95.1		5.75		TAS		20.0	1.02	m_e	mb	5.2
KAST	77.21		P	17:20:12.668	0.4	95.1		5.75		TAS		5.3	0.81	a_e	mb	4.7
MANZ	74.77		P	17:19:59.218		95.1		5.75		TAS		4.5	1.11	m_e	mb	4.4
MANZ	74.77		pP	17:20:05.903		95.1		5.75		TAS				m_e		
MOX	75.15		P	17:20:00.968	-0.2	95.1		5.75		TAS		15.2	1.44	a_e	mb	4.8
NRDL	76.26		P	17:20:07.763	-0.0	95.1		5.75		TAS		19.6	1.44	m_e	mb	5.0
ROTZ	74.68		P	17:19:58.568		95.1		5.75		TAS		2.5	1.14	a_e	mb	4.2
ROTZ	74.68		pP	17:20:05.365		95.1		5.75		TAS				m_e		
RUE	74.02		P	17:19:54.313	0.1	95.1		5.75		TAS		18.4	0.51	m_e	mb	5.4
TANN	74.59		P	17:19:57.668	-0.7	95.1		5.75		TAS		6.4	1.22	a_e	mb	4.5
TNS	77.14		P	17:20:12.518		95.1		5.75		TAS		8.5	0.79	a_e	mb	4.9
WET	74.18		P	17:19:55.318		95.1		5.75		TAS				a_e		

Event 90705008 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author		
2019/07/05	18:41:01.79	0.32	0.70	51.4560	16.1100	4.4	2.2	15	1.0			16	198	0.62	3.59	m	i	ki	BGR

Magnitude	Err	Nsta	Author	OrigID

ML	4.2	BGR	90705014													
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	1.48		Sg	18:41:48.299	-0.6					T__				m_e		
BRG	1.48		Pn	18:41:28.063	-0.7					T__				m_e	ML	3.9
BRG	1.48		Pg	18:41:29.324	-0.4					T__				m_e		
CLL	1.95		Sg	18:42:03.705	-0.1					T__				m_e		
CLL	1.95		Pn	18:41:34.273	-0.8					T__				m_e	ML	4.0
CLL	1.95		Pg	18:41:37.869	-0.7					T__				m_e		
CLZ	3.59		Sg	18:42:54.018	-1.9					T__				m_e		
CLZ	3.59		Pn	18:41:58.187	1.0					T__				m_e	ML	4.4
DPC	1.12		Sg	18:41:37.474	0.2					T__				m_e		
DPC	1.12		Pg	18:41:22.649	-0.1					T__				m_e	ML	4.4
GEC2	3.04		Sg	18:42:37.799	-0.4					T__				m_e		
GEC2	3.04		Pn	18:41:50.369	0.7					T__				m_e	ML	4.3
GEC2	3.04		Pg	18:41:58.564	-0.4					T__				m_e		
GRA1	3.58		Sg	18:42:55.090	-0.4					T__				m_e		
GRA1	3.58		Pn	18:41:57.974	0.9					T__				m_e	ML	4.8
GRA1	3.58		Pg	18:42:10.300	1.1					T__				m_e		
KSP	0.62		Sg	18:41:22.314	0.7					T__				m_e		
KSP	0.62		Pg	18:41:14.075	0.5					T__				m_e	ML	3.8
MANZ	2.94		Sg	18:42:34.595	-0.5					T__				m_e		
MANZ	2.94		Pn	18:41:48.976	0.6					T__				m_e	ML	4.3
MANZ	2.94		Pg	18:41:58.625	1.5					T__				m_e		
MORC	1.91		Sg	18:42:02.090	-0.4					T__				m_e		
MORC	1.91		Pn	18:41:34.276	-0.3					T__				m_e	ML	4.4
MOX	2.95		Sg	18:42:34.873	-0.6					T__				m_e		
MOX	2.95		Pn	18:41:49.161	0.6					T__				m_e	ML	4.4
MOX	2.95		Pg	18:41:57.969	0.6					T__				m_e		
OJC	2.65		Sg	18:42:26.339	0.6					T__				m_e		
OJC	2.65		Pn	18:41:42.826	-1.6					T__				m_e		
OJC	2.65		Pg	18:41:51.676	0.1					T__				m_e		
OKC	2.08		Sg	18:42:06.590	-1.1					T__				m_e		
OKC	2.08		Pn	18:41:35.915	-0.8					T__				m_e	ML	3.8
OKC	2.08		Pg	18:41:40.558	-0.3					T__				m_e		
ROTZ	3.01		Sg	18:42:37.533	0.3					T__				m_e		
ROTZ	3.01		Pn	18:41:49.814	0.5					T__				m_e	ML	4.2
ROTZ	3.01		Pg	18:41:58.297	-0.1					T__				m_e		
TANN	2.53		Sg	18:42:22.012	-0.2					T__				m_e		
TANN	2.53		Pn	18:41:43.875	1.0					T__				m_e	ML	4.2
TANN	2.53		Pg	18:41:49.644	0.1					T__				m_e		
WERD	2.61		Sg	18:42:24.503	-0.1					T__				m_e		
WERD	2.61		Pn	18:41:44.465	0.5					T__				m_e	ML	4.2
WERD	2.61		Pg	18:41:51.348	0.4					T__				m_e		
WET	3.11		Sg	18:42:40.348	-0.1					T__				m_e		
WET	3.11		Pn	18:41:51.352	0.7					T__				m_e	ML	4.3
WET	3.11		Pg	18:42:00.203	-0.1					T__				m_e		

Event 90706001 California-Nevada border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/06	03:20:03.40			36.0020	-117.6170				21.0	1.7		29		78.66	85.59	m i ke	BGR
OrigID 90706007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90706007
Ms	7.5		BGR	90706007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	81.31		P	03:32:16.829	0.1	320.6		5.16		TAS		103.3	1.09	m_e	mb	5.8
ASSE	81.31		pP	03:32:22.422	0.1	321.3		5.10		TAS				m_e		
ASSE	81.31		S	03:42:39.125	0.2	323.4		10.39		TAS				m_e		
BFO	83.21		P	03:32:26.338	0.1	320.6		5.16		TAS		81.2	1.08	m_e	mb	5.9
BFO	83.21		pP	03:32:32.371		321.3		5.10		TAS				m_e		
BFO	83.21		S	03:43:01.824	1.3	323.4		10.39		TAS				m_e		
BRG	83.57		P	03:32:28.476	-0.3	320.6		5.16		TAS		127.7	1.18	m_e	mb	6.0
BRG	83.57		S	03:43:02.112	0.2	323.4		10.39		TAS				m_e		
BSEG	79.79		P	03:32:08.536	-0.3	320.6		5.16		TAS		112.0	1.14	m_e	mb	5.7
BSEG	79.79		S	03:42:23.820	1.2	323.4		10.39		TAS				m_e		
BUG	80.44		P	03:32:11.635	-0.2	320.6		5.16		TAS		74.5	1.23	m_e	mb	5.5
BUG	80.44		S	03:42:29.877	-1.1	323.4		10.39		TAS				m_e		
CLL	82.87		P	03:32:24.510	0.1	320.6		5.16		TAS		94.4	1.12	m_e	mb	5.9
CLL	82.87		pP	03:32:30.442		321.3		5.10		TAS				m_e		
CLL	82.87		S	03:42:53.749	-1.0	323.4		10.39		TAS				m_e		
CLZ	81.41		P	03:32:17.178	0.1	320.6		5.16		TAS		92.9	1.09	m_e	mb	5.7
CLZ	81.41		pP	03:32:23.452		321.3		5.10		TAS				m_e		
CLZ	81.41		S	03:42:40.279	0.1	323.4		10.39		TAS				m_e		
FLT1	81.38		P	03:32:16.392	-0.0	320.6		5.16		TAS		84.2	1.08	m_e	mb	5.7
FLT1	81.38		S	03:42:39.106	-0.3	323.4		10.39		TAS				m_e		
FUR	84.62		P	03:32:33.801	-0.1	320.6		5.16		TAS		94.4	1.07	m_e	mb	6.0
FUR	84.62		S	03:43:13.360	-1.0	323.4		10.39		TAS				m_e		
GEC2	85.09		P	03:32:35.503		320.6		5.16		TAS		60.5	1.26	m_e	mb	5.7
GEC2	85.09		pP	03:32:41.810		321.3		5.10		TAS				m_e		
GEC2	85.09		S	03:43:17.109	-1.3	323.4		10.39		TAS				m_e		
GOR1	80.90		P	03:32:15.039	0.2	320.6		5.16		TAS		92.4	1.32	m_e	mb	5.7
GOR1	80.90		S	03:42:33.068	-1.1	323.4		10.39		TAS				m_e		
GRA1	83.41		P	03:32:27.996	0.2	320.6		5.16		TAS		279.0	1.34	m_e	mb	6.3
GRA1	83.41		S	03:43:02.689	1.3	323.4		10.39		TAS				m_e		
GRA1	83.41		L	04:08:19.688						T__		244297.0	19.60	a_e	Ms	7.6
GTTG	81.47		P	03:32:17.440	0.6	320.6		5.16		TAS		60.7	1.29	m_e	mb	5.5
GTTG	81.47		S	03:42:41.144	0.1	323.4		10.39		TAS				m_e		
HLG	78.66		S	03:42:12.284	0.9	323.4		10.39		TAS				m_e		
IBBN	80.00		P	03:32:09.540	0.2	320.6		5.16		TAS		129.2	1.17	m_e	mb	5.7
IBBN	80.00		S	03:42:23.532	-2.5	323.4		10.39		TAS				m_e		
KAST	81.10		P	03:32:15.157	0.2	320.6		5.16		TAS		53.2	1.15	m_e	mb	5.5

KAST	81.10	S	03:42:37.664	0.1	323.4	10.39	TAS										m_e	
MANZ	83.54	P	03:32:27.996	-0.1	320.6	5.16	TAS	21.9	1.33	m_e	mb							5.2
MANZ	83.54	pP	03:32:34.007		321.3	5.10	TAS			m_e								
MANZ	83.54	S	03:43:03.266	0.8	323.4	10.39	TAS			m_e								
MOX	82.83	P	03:32:24.723	-0.1	320.6	5.16	TAS	125.3	1.26	m_e	mb							6.0
MOX	82.83	pP	03:32:30.931		321.3	5.10	TAS			m_e								
MOX	82.83	S	03:42:57.786	2.8	323.4	10.39	TAS			m_e								
MOX	82.83	L	04:12:14.976				T__	126101.0	18.20	a_e	Ms							7.3
NEUB	82.47	P	03:32:22.745	-0.1	320.6	5.16	TAS	122.8	1.20	m_e	mb							5.9
NEUB	82.47	S	03:42:48.558	-2.4	323.4	10.39	TAS			m_e								
NRDL	80.81	P	03:32:13.774	-0.3	320.6	5.16	TAS	79.7	1.25	m_e	mb							5.6
NRDL	80.81	S	03:42:33.645	-0.1	323.4	10.39	TAS			m_e								
RETH	80.33	P	03:32:11.722	-0.5	320.6	5.16	TAS	90.7	1.21	m_e	mb							5.6
RETH	80.33	S	03:42:30.454	1.6	323.4	10.39	TAS			m_e								
RGN	80.44	S	03:42:29.877	1.6	323.4	10.39	TAS			m_e								
RJOB	85.59	P	03:32:38.558		320.6	5.16	TAS	24.7	1.23	m_e	mb							5.2
RJOB	85.59	pP	03:32:44.724		321.3	5.10	TAS			m_e								
RJOB	85.59	S	03:43:23.742	-0.5	323.4	10.39	TAS			m_e								
ROTZ	83.76	P	03:32:29.131	0.1	320.6	5.16	TAS	16.9	1.17	m_e	mb							5.2
ROTZ	83.76	S	03:43:06.438	1.7	323.4	10.39	TAS			m_e								
RUE	82.24	P	03:32:21.280	0.3	320.6	5.16	TAS	99.0	1.34	m_e	mb							5.8
RUE	82.24	S	03:42:44.874	-2.8	323.4	10.39	TAS			m_e								
STU	83.26	P	03:32:26.801	0.6	320.6	5.16	TAS	187.1	1.09	m_e	mb							6.2
STU	83.26	pP	03:32:33.056		321.3	5.10	TAS			m_e								
STU	83.26	S	03:43:01.824	1.2	323.4	10.39	TAS			m_e								
TANN	83.35	P	03:32:27.280	-0.1	320.6	5.16	TAS	110.2	1.32	m_e	mb							5.9
TANN	83.35	pP	03:32:33.316		321.3	5.10	TAS			m_e								
TANN	83.35	S	03:42:59.805	-0.4	323.4	10.39	TAS			m_e								
TNS	81.84	P	03:32:19.442	-0.1	320.6	5.16	TAS	51.0	1.16	m_e	mb							5.5
TNS	81.84	S	03:42:45.759	0.1	323.4	10.39	TAS			m_e								
UBBA	82.04	P	03:32:21.013	0.2	320.6	5.16	TAS	286.2	1.94	m_e	mb							6.1
UBBA	82.04	S	03:42:47.201	0.1	323.4	10.39	TAS			m_e								
WET	84.52	P	03:32:32.797	-0.6	320.6	5.16	TAS	58.7	1.17	m_e	mb							5.7
WET	84.52	S	03:43:13.360	0.7	323.4	10.39	TAS			m_e								
WLF	81.26	P	03:32:16.562	-0.6	320.6	5.16	TAS	110.2	1.09	m_e	mb							5.8
WLF	81.26	S	03:42:38.817	-1.5	323.4	10.39	TAS			m_e								

Event 90706002 Bering Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/06	05:23:46.21			57.0130	164.8710				16.8	1.1		23		67.48	73.23	m i ke	BGR
90706008																	

Magnitude Err Nsta Author OrigID  
mb 5.2 BGR 90706008



Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	69.18		P	05:34:47.379	0.2	14.8		6.06		TAS		18.0	1.12	a_e mb	5.2
BFO	73.23		P	05:35:11.579		14.8		6.06		TAS		26.0	1.40	a_e mb	5.2
BFO	73.23		pP	05:35:16.485		14.8		6.06		TAS				m_e	
BRG	69.84		P	05:34:51.079	0.3	14.8		6.06		TAS		27.7	1.58	m_e mb	5.1
BRG	69.84		pP	05:34:55.984		14.8		6.06		TAS				m_e	
BSEG	67.48		P	05:34:37.129	0.2	14.8		6.06		TAS		22.1	1.39	a_e mb	5.2
BUG	70.35		P	05:34:54.429	-0.1	14.8		6.06		TAS		63.1	1.85	a_e mb	5.4
BUG	70.35		pP	05:34:59.224		14.8		6.06		TAS				m_e	
CLL	69.58		P	05:34:49.429	0.2	14.8		6.06		TAS		22.8	1.26	a_e mb	5.2
CLL	69.58		pP	05:34:54.144		14.8		6.06		TAS				m_e	
CLZ	69.50		P	05:34:49.779	-0.3	14.8		6.06		TAS		55.4	1.50	a_e mb	5.5
CLZ	69.50		pP	05:34:54.696		14.8		6.06		TAS				m_e	
FLT1	68.89		P	05:34:45.129	-0.5	14.8		6.06		TAS		39.0	1.67	a_e mb	5.4
GEC2	71.83		P	05:35:03.529		14.8		6.06		TAS		27.7	1.45	a_e mb	5.2
GEC2	71.83		pP	05:35:08.251		14.8		6.06		TAS				m_e	
GOR1	68.24		P	05:34:42.079	-0.1	14.8		6.06		TAS		58.5	1.55	a_e mb	5.6
GRA1	71.45		P	05:35:01.629		14.8		6.06		TAS		55.9	1.50	a_e mb	5.5
GRA1	71.45		pP	05:35:06.179		14.8		6.06		TAS				m_e	
KAST	70.42		P	05:34:55.129	0.1	14.8		6.06		TAS		41.5	1.66	a_e mb	5.3
MANZ	71.01		P	05:34:58.387	-0.4	14.8		6.06		TAS		4.7	1.33	m_e mb	4.5
MOX	70.46		P	05:34:55.179	0.4	14.8		6.06		TAS		33.7	1.55	a_e mb	5.2
MOX	70.46		pP	05:34:59.995		14.8		6.06		TAS				m_e	
NRDL	68.91		P	05:34:45.679	-0.1	14.8		6.06		TAS		28.8	1.76	a_e mb	5.2
RETH	68.78		P	05:34:45.179	-0.6	14.8		6.06		TAS		46.8	1.60	a_e mb	5.5
RJOB	73.06		P	05:35:11.079		14.8		6.06		TAS		19.3	1.32	m_e mb	5.1
ROTZ	71.21		P	05:35:00.029	0.1	14.8		6.06		TAS		9.9	1.51	a_e mb	4.7
STU	72.67		P	05:35:08.229		14.8		6.06		TAS				a_e	
STU	72.67		pP	05:35:13.187		14.8		6.06		TAS				m_e	
TANN	70.54		P	05:34:55.879	0.1	14.8		6.06		TAS		31.4	1.57	a_e mb	5.2
TNS	71.37		P	05:35:00.779	-0.4	14.8		6.06		TAS		37.6	1.76	m_e mb	5.2
UBBA	70.55		P	05:34:55.779	0.4	14.8		6.06		TAS		43.8	1.75	a_e mb	5.3
UBBA	70.55		pP	05:35:00.248		14.8		6.06		TAS				m_e	
WET	71.69		P	05:35:03.029		14.8		6.06		TAS		46.4	1.52	a_e mb	5.4
WET	71.69		pP	05:35:07.826		14.8		6.06		TAS				m_e	

Event 90708001 Costa Rica

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/08	00:08:56.55			10.5450	-84.9400				14.9	2.5		12		82.76	87.77	m i ke	BGR
90708007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90708007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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BFO	84.38	P	00:21:25.101	0.1	281.5	4.94	TAS	6.6	1.04	m_e	mb	4.8
BRG	87.45	P	00:21:40.430		281.5	4.94	TAS	3.3	0.81	m_e	mb	4.5
CLL	86.78	P	00:21:37.168		281.5	4.94	TAS	8.4	0.94	m_e	mb	4.8
CLZ	85.06	P	00:21:28.862		281.5	4.94	TAS	9.0	0.84	m_e	mb	5.0
CLZ	85.06	pP	00:21:33.463				T__				m_e	
GEC2	87.77	P	00:21:41.715		281.5	4.94	TAS	5.8	1.06	m_e	mb	4.8
GEC2	87.77	pP	00:21:46.533				T__				m_e	
MANZ	86.50	P	00:21:36.076		281.5	4.94	TAS	1.1	0.82	m_e	mb	4.0
MOX	86.06	P	00:21:33.548		281.5	4.94	TAS	5.3	0.86	m_e	mb	4.7
RJOB	87.43	P	00:21:40.726		281.5	4.94	TAS	4.6	0.90	m_e	mb	4.6
ROTZ	86.61	P	00:21:36.681		281.5	4.94	TAS	1.1	0.99	m_e	mb	3.9
ROTZ	86.61	pP	00:21:40.283				T__				m_e	
TANN	86.63	P	00:21:36.744		281.5	4.94	TAS	10.0	0.85	m_e	mb	5.0
WET	87.18	P	00:21:39.621		281.5	4.94	TAS	6.4	0.98	m_e	mb	4.7
WLF	82.76	P	00:21:17.553	0.1	281.5	4.94	TAS	24.3	1.22	m_e	mb	5.3

Event 90708002 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/08	07:00:34.71			30.9620	48.6390				33.0			23		29.44	37.22	m i ke	BGR
90708008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	90708008
Ms	4.8		BGR	90708008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	32.48		P	07:07:00.493	-0.5	109.7		8.68		TAS		23.7	0.73	m_e	mb	5.2
CKRC	31.46		P	07:06:53.453	-0.2	109.7		8.68		TAS		28.9	0.78	m_e	mb	5.3
CLZ	34.92		P	07:07:22.164		109.7		8.68		TAS		55.1	0.93	m_e	mb	5.5
DPC	30.84		P	07:06:46.745	-0.1	109.7		8.68		TAS		106.9	1.00	m_e	mb	5.7
FLT1	34.62		P	07:07:18.839		109.7		8.68		TAS		81.4	1.08	m_e	mb	5.6
FUR	33.14		P	07:07:07.408	0.6	109.7		8.68		TAS		373.2	0.73	m_e	mb	6.4
GEC2	31.84		P	07:06:55.722	-0.6	109.7		8.68		TAS		38.6	0.74	m_e	mb	5.4
GOR1	34.84		P	07:07:21.420		109.7		8.68		TAS		63.6	1.00	m_e	mb	5.5
GRA1	33.66		L	07:25:17.388						T__		2568.1	18.30	a_e	Ms	5.0
HGN	37.22		P	07:07:42.523		109.7		8.68		TAS		39.9	1.07	m_e	mb	5.1
JAVC	29.44		P	07:06:35.631	0.6	109.7		8.68		TAS		44.4	0.96	m_e	mb	5.3
KAST	35.85		P	07:07:30.591		109.7		8.68		TAS		58.7	0.90	m_e	mb	5.4
KRUC	30.29		P	07:06:41.997	-0.1	109.7		8.68		TAS		50.5	1.06	m_e	mb	5.3
MANZ	33.22		P	07:07:07.592	-0.0	109.7		8.68		TAS		9.3	0.90	m_e	mb	4.7
MORC	29.93		P	07:06:38.499	-0.0	109.7		8.68		TAS		154.4	0.85	m_e	mb	5.9
MOX	33.76		L	07:24:52.136						T__		1397.4	20.00	a_e	Ms	4.7
NRDL	35.32		P	07:07:26.053		109.7		8.68		TAS		50.8	0.94	m_e	mb	5.4
RETH	35.83		P	07:07:30.447		109.7		8.68		TAS		84.6	1.46	m_e	mb	5.4
RJOB	32.03		P	07:06:57.744	0.5	109.7		8.68		TAS		108.2	0.83	m_e	mb	5.8

ROTZ	33.08	P	07:07:06.761	0.5	109.7	8.68	TAS	18.7	0.81	m_e	mb	5.1
TNS	35.53	P	07:07:27.450		109.7	8.68	TAS	60.3	1.22	m_e	mb	5.3
TREC	30.93	P	07:06:47.866	0.9	109.7	8.68	TAS	37.7	0.98	m_e	mb	5.3
VRAC	30.28	P	07:06:42.168	-0.4	109.7	8.68	TAS	37.9	0.95	m_e	mb	5.2
WET	32.45	P	07:07:00.587	-0.3	109.7	8.68	TAS	47.5	0.84	m_e	mb	5.5
WLF	36.80	P	07:07:38.483		109.7	8.68	TAS	60.7	0.80	m_e	mb	5.4

Event 90709001 Sea of Okhotsk

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/09	11:33:36.08			48.4800	144.7480				400.0			27		70.94	76.45	m i ke	BGR
OrigID 90709007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90709007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	72.40	P		11:44:17.643	-0.1	30.0		5.72	TAS			45.9	1.05	m_e	mb	5.5
BFO	76.45	P		11:44:40.474		30.0		5.72	TAS			50.5	0.80	a_e	mb	5.7
BRG	72.42	P		11:44:17.529	-0.1	30.0		5.72	TAS			27.5	0.93	m_e	mb	5.4
BSEG	70.94	P		11:44:09.424	-0.1	30.0		5.72	TAS			59.9	0.81	m_e	mb	5.8
BUG	74.02	P		11:44:26.771	-0.2	30.0		5.72	TAS			72.4	0.79	m_e	mb	5.8
CLL	72.36	P		11:44:17.074	-0.3	30.0		5.72	TAS			109.0	0.59	a_e	mb	6.2
CLZ	72.74	P		11:44:20.010	-0.4	30.0		5.72	TAS			76.5	0.71	m_e	mb	5.9
FLT1	72.05	P		11:44:15.224	0.2	30.0		5.72	TAS			74.9	0.74	a_e	mb	5.9
FUR	75.64	P		11:44:36.374		30.0		5.72	TAS			105.7	0.82	a_e	mb	6.0
GEC2	74.23	P		11:44:28.124	0.1	30.0		5.72	TAS			37.1	0.64	a_e	mb	5.6
GOR1	71.45	P		11:44:12.511	0.1	30.0		5.72	TAS			107.3	1.27	m_e	mb	5.8
GRA1	74.33	P		11:44:29.224	-0.3	30.0		5.72	TAS			114.3	0.70	a_e	mb	6.0
GTTG	73.12	P		11:44:21.999	0.2	30.0		5.72	TAS			50.0	0.83	m_e	mb	5.7
IBBN	73.11	P		11:44:21.774	0.4	30.0		5.72	TAS			91.3	0.61	m_e	mb	6.1
KAST	73.89	P		11:44:26.374	-0.2	30.0		5.72	TAS			45.9	0.78	a_e	mb	5.6
MANZ	73.79	P		11:44:25.589	0.4	30.0		5.72	TAS			6.4	0.85	m_e	mb	4.7
MOX	73.38	P		11:44:23.211	-0.1	30.0		5.72	TAS			31.1	0.85	m_e	mb	5.5
NEUB	72.86	P		11:44:20.124	-0.1	30.0		5.72	TAS			68.5	0.84	a_e	mb	5.8
NRDL	72.25	P		11:44:16.753	-0.4	30.0		5.72	TAS			40.7	0.78	m_e	mb	5.6
RJOB	75.49	P		11:44:35.774		30.0		5.72	TAS			60.4	0.76	a_e	mb	5.7
ROTZ	73.94	P		11:44:26.706	0.5	30.0		5.72	TAS			8.7	1.01	m_e	mb	4.7
STU	75.79	P		11:44:36.781	0.4	30.0		5.72	TAS			193.8	0.80	m_e	mb	6.3
TANN	73.30	P		11:44:22.824	0.1	30.0		5.72	TAS			12.8	0.96	a_e	mb	5.0
TNS	74.75	P		11:44:31.174	-0.0	30.0		5.72	TAS			60.5	0.72	a_e	mb	5.7
UBBA	73.74	P		11:44:25.124	0.1	30.0		5.72	TAS			192.4	1.77	m_e	mb	5.8
WET	74.26	P		11:44:28.824	-0.4	30.0		5.72	TAS			59.0	0.80	a_e	mb	5.7
WLF	75.93	P		11:44:37.728	-0.1	30.0		5.72	TAS			60.3	1.11	m_e	mb	5.6

Event 90709002 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/09	18:43:47.41			53.6800	-167.6200				33.0			24		72.74	78.96	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90709008
Ms	4.5		BGR	90709008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	74.55		P	18:55:23.061	-0.3	359.5		5.73		TAS		24.9	0.95	a_e mb	5.2
BFO	78.31		P	18:55:44.202		359.5		5.73		TAS		18.2	0.92	m_e mb	5.2
BRG	75.81		P	18:55:30.211	-0.0	359.5		5.73		TAS		24.6	1.02	a_e mb	5.3
BSEG	72.74		P	18:55:12.711	-0.1	359.5		5.73		TAS		27.4	0.91	a_e mb	5.4
BUG	75.16		P	18:55:26.311	-0.1	359.5		5.73		TAS		20.8	0.77	a_e mb	5.2
CLL	75.38		P	18:55:27.511	-0.1	359.5		5.73		TAS		20.9	0.78	a_e mb	5.2
CLZ	74.84		P	18:55:25.161	-0.3	359.5		5.73		TAS		31.4	0.79	a_e mb	5.4
FLT1	74.36		P	18:55:21.461	0.3	359.5		5.73		TAS		16.1	0.72	a_e mb	5.2
GEC2	77.84		P	18:55:41.884		359.5		5.73		TAS		17.7	0.79	m_e mb	5.2
GOR1	73.70		P	18:55:18.575	0.1	359.5		5.73		TAS			0.90	m_e	
GRA1	77.00		P	18:55:37.511	-0.1	359.5		5.73		TAS		35.0	0.76	a_e mb	5.6
GRA1	77.00		L	19:28:40.490						T__		252.6	21.70	a_e Ms	4.5
GTTG	75.13		P	18:55:26.711	-0.0	359.5		5.73		TAS		49.7	0.86	a_e mb	5.6
IBBN	74.31		P	18:55:21.811	0.4	359.5		5.73		TAS		61.0	1.03	a_e mb	5.6
KAST	75.44		P	18:55:28.161	0.0	359.5		5.73		TAS		17.9	0.91	a_e mb	5.1
MANZ	76.71		P	18:55:35.461	0.1	359.5		5.73		TAS		2.6	0.81	a_e mb	4.4
MOX	76.05		P	18:55:31.711	0.2	359.5		5.73		TAS		25.1	0.74	a_e mb	5.4
MOX	76.05		L	19:34:08.392						T__		334.2	21.90	a_e Ms	4.6
NEUB	75.50		P	18:55:28.461	0.1	359.5		5.73		TAS		37.3	0.76	a_e mb	5.5
NRDL	74.18		P	18:55:20.911	-0.6	359.5		5.73		TAS		23.9	0.89	m_e mb	5.2
RJOB	78.96		P	18:55:48.225		359.5		5.73		TAS		25.7	0.76	m_e mb	5.3
ROTZ	76.93		P	18:55:36.910	-0.0	359.5		5.73		TAS		3.3	0.81	m_e mb	4.5
TANN	76.28		P	18:55:33.085	0.3	359.5		5.73		TAS		11.0	1.03	m_e mb	4.9
TNS	76.42		P	18:55:33.811	0.4	359.5		5.73		TAS		15.3	0.74	a_e mb	5.2
WET	77.55		P	18:55:40.405		359.5		5.73		TAS		44.4	1.30	m_e mb	5.4
WLF	76.90		P	18:55:36.782	-0.4	359.5		5.73		TAS		22.9	0.89	m_e mb	5.3

Event 90710005 North of Ascension Island

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/10	21:43:48.97			-0.6990	-15.6510				33.0			16		53.08	58.55	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90710011
Ms	4.4		BGR	90710011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	53.08		P	21:53:04.845		213.3		7.20		TAS		17.5	0.86	m_e	mb	5.0
BRG	57.21		P	21:53:34.820		213.3		7.20		TAS		9.2	0.86	m_e	mb	4.8
BSEG	58.55		P	21:53:43.594	0.7	213.3		7.20		TAS		32.5	0.86	m_e	mb	5.4
BUG	55.46		P	21:53:22.655	0.2	213.3		7.20		TAS		11.4	0.66	m_e	mb	5.0
CLL	57.22		P	21:53:35.557	0.5	213.3		7.20		TAS		10.7	0.92	m_e	mb	4.9
GEC2	55.48		P	21:53:22.776		213.3		7.20		TAS		12.5	0.80	m_e	mb	5.0
GRA1	55.25		P	21:53:20.397		213.3		7.20		TAS		13.6	0.81	m_e	mb	5.0
GRA1	55.25		L	22:17:19.193						T__		334.8	20.20	a_e	Ms	4.4
KAST	55.60		P	21:53:23.076	-0.3	213.3		7.20		TAS		5.1	0.71	m_e	mb	4.7
MANZ	55.81		P	21:53:24.697		213.3		7.20		TAS		5.0	0.93	m_e	mb	4.5
MOX	56.18		P	21:53:27.338		213.3		7.20		TAS		12.3	0.84	m_e	mb	5.0
MOX	56.18		L	22:17:46.356						T__		356.8	19.70	a_e	Ms	4.5
RETH	57.22		P	21:53:35.183	-0.0	213.3		7.20		TAS			0.81	m_e		
RJOB	54.23		P	21:53:13.243		213.3		7.20		TAS		13.0	0.66	m_e	mb	5.1
ROTZ	55.67		P	21:53:23.435		213.3		7.20		TAS		2.0	0.97	m_e	mb	4.1
TANN	56.29		P	21:53:28.186		213.3		7.20		TAS		21.4	0.96	m_e	mb	5.2
TNS	54.76		P	21:53:17.097		213.3		7.20		TAS		25.0	0.83	m_e	mb	5.3
WET	55.41		P	21:53:22.079		213.3		7.20		TAS		28.1	0.91	m_e	mb	5.3

Event 90711005 BOUGAINVILLE REGION, P.N.G.

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/11	17:08:37.90			-4.6600	155.2400				496.0			28		116.59	121.47	m i ke	NEIC
	90711011																

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	117.71		PKPdf	17:26:39.762	-0.0	47.2		1.94		TAS				m_e	
BFO	121.45		PKPdf	17:26:46.471		47.2		1.94		TAS				m_e	
BRG	117.04		PKPdf	17:26:38.557	-0.4	47.2		1.94		TAS				m_e	
BSEG	116.59		PKPdf	17:26:37.622	0.1	47.2		1.94		TAS				m_e	
BUG	119.67		PKPdf	17:26:43.376	0.3	47.2		1.94		TAS				m_e	
CLL	117.21		PKPdf	17:26:38.557	0.1	47.2		1.94		TAS				m_e	
CLZ	118.04		PKPdf	17:26:40.717	0.2	47.2		1.94		TAS				m_e	
FLT1	117.32		PKPdf	17:26:38.640	-0.1	47.2		1.94		TAS				m_e	
FUR	120.14		PKPdf	17:26:44.498	-0.5	47.2		1.94		TAS				m_e	
GEC2	118.47		PKPdf	17:26:41.174	-0.0	47.2		1.94		TAS				m_e	
GOR1	116.83		PKPdf	17:26:38.287	-0.2	47.2		1.94		TAS				m_e	
GRA1	119.14		PKPdf	17:26:42.649	-0.2	47.2		1.94		TAS				m_e	
GRA1	119.14		pPKPdf	17:28:44.357						T__				m_e	

./bul1907.txt

Wed Jul 21 10:35:31 2021

22

GTTG	118.43	PKPdf	17:26:41.403	0.4	47.2	1.94	TAS	m_e
IBBN	118.83	PKPdf	17:26:41.818	0.1	47.2	1.94	TAS	m_e
KAST	119.36	PKPdf	17:26:43.023	0.0	47.2	1.94	TAS	m_e
MANZ	118.51	PKPdf	17:26:41.444	-0.2	47.2	1.94	TAS	m_e
MOX	118.30	PKPdf	17:26:40.738	0.1	47.2	1.94	TAS	m_e
NEUB	117.86	PKPdf	17:26:39.990	-0.1	47.2	1.94	TAS	m_e
NRDL	117.70	PKPdf	17:26:39.907	-0.0	47.2	1.94	TAS	m_e
RETH	117.84	PKPdf	17:26:39.969	0.3	47.2	1.94	TAS	m_e
RJOB	119.65	PKPdf	17:26:43.268	0.1	47.2	1.94	TAS	m_e
RJOB	119.65	pPKPdf	17:28:45.238				T__	m_e
ROTZ	118.61	PKPdf	17:26:41.444	-0.3	47.2	1.94	TAS	m_e
STU	120.73	PKPdf	17:26:45.848		47.2	1.94	TAS	m_e
TANN	118.06	PKPdf	17:26:40.364	-0.1	47.2	1.94	TAS	m_e
TNS	120.05	PKPdf	17:26:44.394	0.4	47.2	1.94	TAS	m_e
UBBA	118.92	PKPdf	17:26:41.777	-0.3	47.2	1.94	TAS	m_e
WET	118.69	PKPdf	17:26:42.067	0.1	47.2	1.94	TAS	m_e
WLF	121.47	PKPdf	17:26:47.469		47.2	1.94	TAS	m_e

Event 90711006 Southwestern Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/11	21:22:01.29		24.2930	123.0520				33.0				22		82.99	87.55	m i ke	BGR
90711012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90711012
Ms	5.0		BGR	90711012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	87.13		P	21:34:42.437		58.2		5.04		TAS		11.9	1.18	m_e mb	4.9
BSEG	83.03		P	21:34:22.502	0.0	58.2		5.04		TAS		12.6	0.96	m_e mb	5.1
BUG	85.95		P	21:34:37.238	-0.2	58.2		5.04		TAS		23.3	1.03	m_e mb	5.3
CLL	82.99		P	21:34:21.779	0.0	58.2		5.04		TAS		8.1	0.74	m_e mb	5.0
CLZ	84.11		P	21:34:28.337	-0.3	58.2		5.04		TAS		47.0	1.63	m_e mb	5.5
FLT1	83.40		P	21:34:23.668	-0.5	58.2		5.04		TAS		11.2	1.37	m_e mb	4.9
GEC2	83.84		P	21:34:26.644		58.2		5.04		TAS		11.8	0.90	m_e mb	5.1
GRA1	84.79		P	21:34:31.657		58.2		5.04		TAS		45.6	1.59	m_e mb	5.5
GRA1	84.79		L	22:16:16.847						T__		596.8	18.50	a_e Ms	5.0
GTTG	84.49		P	21:34:30.203	0.0	58.2		5.04		TAS		12.7	0.84	m_e mb	5.2
IBBN	85.21		P	21:34:33.478	0.1	58.2		5.04		TAS		26.3	1.00	m_e mb	5.4
KAST	85.49		P	21:34:35.141	0.1	58.2		5.04		TAS		19.0	1.34	m_e mb	5.2
MANZ	84.15		P	21:34:28.233	0.2	58.2		5.04		TAS		2.3	1.18	m_e mb	4.3
MOX	84.08		P	21:34:27.843	0.2	58.2		5.04		TAS		3.9	0.77	m_e mb	4.7
MOX	84.08		L	22:16:32.394						T__		503.0	19.20	a_e Ms	4.9
NEUB	83.71		P	21:34:25.718		58.2		5.04		TAS		9.2	0.79	m_e mb	5.1
NRDL	83.90		P	21:34:26.897	0.4	58.2		5.04		TAS		47.0	1.89	m_e mb	5.4

./bul1907.txt

Wed Jul 21 10:35:31 2021

23

RETH	84.15	P	21:34:28.069	-0.7	58.2	5.04	TAS	12.8	1.18	m_e	mb	5.0
RJOB	84.92	P	21:34:32.264		58.2	5.04	TAS	10.8	1.04	m_e	mb	5.0
ROTZ	84.21	P	21:34:28.735		58.2	5.04	TAS	2.7	1.06	m_e	mb	4.4
TANN	83.74	P	21:34:25.850	0.1	58.2	5.04	TAS	8.0	1.14	m_e	mb	4.8
TNS	86.02	P	21:34:37.590	-0.8	58.2	5.04	TAS	15.0	1.13	m_e	mb	5.0
UBBA	84.86	P	21:34:31.460	0.2	58.2	5.04	TAS	20.1	1.55	m_e	mb	5.1
WET	84.15	P	21:34:28.338		58.2	5.04	TAS	14.5	1.38	m_e	mb	5.0
WLF	87.55	P	21:34:45.421		58.2	5.04	TAS	29.9	1.04	m_e	mb	5.6

Event 90712001 Chiapas, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/12	01:34:54.17			14.7000	-94.2600				10.0			22		85.53	89.83	m i ke	EMSC
	90712037																

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90712007
Ms	4.8		BGR	90712007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	87.43		P	01:47:29.524	-0.2	291.1		4.93		TAS		28.8	1.16	m_e	mb	5.3
BFO	87.30		P	01:47:27.658	0.2	291.1		4.93		TAS		16.5	1.27	m_e	mb	5.0
BSEG	86.60		P	01:47:25.418	0.2	291.1		4.93		TAS		26.9	0.85	m_e	mb	5.4
BUG	85.66		P	01:47:20.379	-0.1	291.1		4.93		TAS		170.8	2.56	m_e	mb	5.7
CLL	89.08		P	01:47:37.269		291.1		4.93		TAS		4.1	0.93	m_e	mb	4.7
CLZ	87.36		P	01:47:29.244	0.1	291.1		4.93		TAS		94.5	1.99	m_e	mb	5.6
FLT1	87.68		P	01:47:30.271	-0.0	291.1		4.93		TAS		40.9	1.53	m_e	mb	5.5
GOR1	87.49		P	01:47:29.617	0.0	291.1		4.93		TAS		27.4	1.44	m_e	mb	5.2
GRA1	88.62		P	01:47:35.403	0.3	291.1		4.93		TAS		31.9	1.32	m_e	mb	5.4
GRA1	88.62		L	02:24:34.342						T__		466.3	21.60	a_e	Ms	4.9
GTTG	87.22		P	01:47:28.404	-0.6	291.1		4.93		TAS		21.6	0.82	m_e	mb	5.3
IBBN	85.68		P	01:47:20.566	-0.0	291.1		4.93		TAS		55.0	1.38	m_e	mb	5.5
KAST	86.42		P	01:47:24.231	0.4	291.1		4.93		TAS		37.0	1.44	m_e	mb	5.3
MANZ	89.05		P	01:47:37.082	0.1	291.1		4.93		TAS		11.8	2.32	m_e	mb	4.7
MOX	88.52		P	01:47:34.563	-0.1	291.1		4.93		TAS		54.6	2.14	m_e	mb	5.4
MOX	88.52		L	02:27:40.090						T__		319.8	20.70	a_e	Ms	4.7
NRDL	86.98		P	01:47:27.191	0.1	291.1		4.93		TAS		20.0	1.00	m_e	mb	5.2
RETH	86.47		P	01:47:25.045	-0.1	291.1		4.93		TAS		29.2	0.98	m_e	mb	5.4
ROTZ	89.19		P	01:47:38.109		291.1		4.93		TAS		1.6	1.09	m_e	mb	4.2
TANN	89.10		P	01:47:37.362		291.1		4.93		TAS		34.3	1.87	m_e	mb	5.3
TNS	86.76		P	01:47:25.978	0.0	291.1		4.93		TAS		26.3	0.84	m_e	mb	5.4
UBBA	87.49		P	01:47:29.524	-0.4	291.1		4.93		TAS		50.6	1.84	m_e	mb	5.3
WET	89.83		P	01:47:41.002		291.1		4.93		TAS				m_e		
WLF	85.53		P	01:47:19.726	-0.1	291.1		4.93		TAS		119.5	1.99	m_e	mb	5.7

Event 90713001 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/13	00:57:35.06			27.1200	129.9320				247.0			7		83.20	88.70	m i ke	BGR
OrigID 90713007																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.1		BGR	90713007
Ms	5.4		BGR	90713007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	84.92		P	01:09:36.003	0.4	51.6		5.05		TAS		226.3	1.64	m_e	mb	6.1
BFO	88.51		P	01:09:53.516		51.6		5.05		TAS		91.1	1.34	m_e	mb	5.8
BRG	84.07		P	01:09:31.166	0.1	51.6		5.05		TAS		43.4	1.32	m_e	mb	5.5
BSEG	83.96		P	01:09:30.666	-0.1	51.6		5.05		TAS		85.6	0.85	m_e	mb	6.0
BUG	86.99		P	01:09:46.010	-0.2	51.6		5.05		TAS		676.7	1.82	m_e	mb	6.5
CLL	84.28		pP	01:10:37.011						T__					m_e	
CLZ	85.25		P	01:09:38.005	-0.2	51.6		5.05		TAS		340.4	1.27	m_e	mb	6.4
FLT1	84.53		P	01:09:33.335	0.5	51.6		5.05		TAS		191.2	1.43	m_e	mb	6.1
FUR	87.10		P	01:09:47.345		51.6		5.05		TAS		696.8	1.68	m_e	mb	6.5
GEC2	85.40		P	01:09:38.505	0.2	51.6		5.05		TAS		68.3	1.26	m_e	mb	5.7
GEC2	85.40		pP	01:10:43.075						T__					m_e	
GOR1	84.08		P	01:09:31.833	0.1	51.6		5.05		TAS		176.9	1.18	m_e	mb	6.2
GRA1	86.17		P	01:09:42.841	-0.5	51.6		5.05		TAS		484.8	1.40	m_e	mb	6.4
GRA1	86.17		pP	01:10:46.592						T__					m_e	
GRA1	86.17		L	01:48:56.422						T__		1935.1	18.20	a_e	Ms	5.5
GTTG	85.63		P	01:09:39.839	0.2	51.6		5.05		TAS		313.3	1.31	m_e	mb	6.3
IBBN	86.19		P	01:09:42.174	0.1	51.6		5.05		TAS		487.8	1.29	m_e	mb	6.5
KAST	86.60		P	01:09:44.509	0.2	51.6		5.05		TAS		193.8	1.31	m_e	mb	6.1
MANZ	85.54		P	01:09:39.339	0.5	51.6		5.05		TAS		80.0	2.08	m_e	mb	5.5
MOX	85.38		P	01:09:38.505	0.1	51.6		5.05		TAS		222.9	1.79	m_e	mb	6.1
MOX	85.38		L	01:44:28.347						T__		1438.5	21.10	a_e	Ms	5.3
NEUB	84.97		P	01:09:36.003	0.2	51.6		5.05		TAS		474.4	1.76	m_e	mb	6.4
NEUB	84.97		pP	01:10:40.832						T__					m_e	
NRDL	84.97		P	01:09:36.170	0.1	51.6		5.05		TAS		460.0	2.14	m_e	mb	6.3
RETH	85.16		P	01:09:36.837	-0.4	51.6		5.05		TAS		581.3	2.09	m_e	mb	6.4
ROTZ	85.62		P	01:09:40.006	0.2	51.6		5.05		TAS		78.8	1.56	m_e	mb	5.6
RUE	83.20		P	01:09:26.830	-0.5	51.6		5.05		TAS		228.2	1.19	m_e	mb	6.3
STU	87.79		P	01:09:50.013		51.6		5.05		TAS		332.8	1.26	m_e	mb	6.5
STU	87.79		pP	01:10:54.246						T__					m_e	
TANN	85.10		P	01:09:37.004	0.4	51.6		5.05		TAS		162.8	1.65	m_e	mb	6.0
TANN	85.10		pP	01:10:40.448						T__					m_e	
TNS	87.22		P	01:09:47.678	-0.1	51.6		5.05		TAS		133.1	1.21	m_e	mb	5.9
UBBA	86.08		P	01:09:42.007	0.2	51.6		5.05		TAS		346.4	1.54	m_e	mb	6.2
WET	85.66		P	01:09:40.034	-0.6	51.6		5.05		TAS		174.7	1.78	m_e	mb	5.9
WLF	88.70		P	01:09:54.850	-0.1	51.6		5.05		TAS		283.6	1.35	m_e	mb	6.3
WLF	88.70		pP	01:10:59.369						T__					m_e	



Event 90713002 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/13	02:15:51.32			34.6940	71.3700				33.0			17		43.99	49.07	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90713008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	43.99		P	02:23:54.095	0.2	85.5		7.90		TAS		13.8	0.71	m_e mb	4.8
BSEG	46.15		P	02:24:10.624	0.0	85.5		7.90		TAS		23.7	0.75	m_e mb	5.3
BUG	48.15		P	02:24:26.349	0.1	85.5		7.90		TAS		10.9	0.88	m_e mb	5.0
CLL	44.57		P	02:23:58.116	0.1	85.5		7.90		TAS		8.2	0.76	m_e mb	4.7
FLT1	45.64		P	02:24:06.122	-0.5	85.5		7.90		TAS		34.6	0.66	m_e mb	5.5
GTTG	46.46		P	02:24:13.662	-0.1	85.5		7.90		TAS		21.8	0.81	m_e mb	5.2
IBBN	47.77		P	02:24:23.490	0.1	85.5		7.90		TAS		19.2	0.74	m_e mb	5.3
MANZ	45.20		P	02:24:04.370		85.5		7.90		TAS		3.4	1.27	m_e mb	4.1
MOX	45.48		P	02:24:05.978		85.5		7.90		TAS		5.9	0.81	m_e mb	4.6
NEUB	45.35		P	02:24:04.459	0.6	85.5		7.90		TAS		15.9	0.82	m_e mb	5.0
NRDL	46.32		P	02:24:12.233	-0.1	85.5		7.90		TAS		14.0	0.80	m_e mb	5.0
RETH	46.77		P	02:24:15.538	-0.7	85.5		7.90		TAS		8.1	0.93	m_e mb	4.8
RGN	44.39		P	02:23:56.507	0.7	85.5		7.90		TAS		87.5	1.03	m_e mb	5.4
ROTZ	45.15		P	02:24:04.013		85.5		7.90		TAS		2.1	1.06	m_e mb	4.0
RUE	44.08		P	02:23:53.738	-0.7	85.5		7.90		TAS		25.3	0.89	m_e mb	5.0
TANN	44.95		P	02:24:01.868		85.5		7.90		TAS		7.0	1.01	m_e mb	4.5
WLF	49.07		P	02:24:34.569		85.5		7.90		TAS		12.1	0.77	m_e mb	5.0

Event 90714002 Honduras

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/14	01:57:25.42			15.7660	-88.9930				33.0			20		81.42	86.39	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90714008
Ms	4.2		BGR	90714008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	83.52		P	02:09:49.523	0.1	287.9		5.05		TAS		30.8	1.36	m_e mb	5.3
BRG	85.85		P	02:10:01.050	0.3	287.9		5.05		TAS		28.3	1.50	m_e mb	5.2
BSEG	82.78		P	02:09:45.681	0.1	287.9		5.05		TAS		45.7	1.44	m_e mb	5.5

./bull1907.txt

Wed Jul 21 10:35:31 2021

26

CLL	85.15	P	02:09:57.299	0.0	287.9	5.05	TAS	25.0	1.42	m_e	mb	5.2
CLZ	83.42	P	02:09:49.157	-0.1	287.9	5.05	TAS	23.8	1.51	m_e	mb	5.2
FLT1	83.79	P	02:09:50.347	-0.2	287.9	5.05	TAS	28.4	1.42	m_e	mb	5.3
GEC2	86.39	P	02:10:03.886		287.9	5.05	TAS	25.2	1.60	m_e	mb	5.1
GRA1	84.58	P	02:09:55.104		287.9	5.05	TAS	40.1	1.55	m_e	mb	5.4
GRA1	84.58	L	02:45:16.101				T__	124.8	21.70	a_e	Ms	4.3
GTTG	83.26	P	02:09:48.151	0.1	287.9	5.05	TAS	27.0	1.45	m_e	mb	5.3
MANZ	85.03	P	02:09:57.116		287.9	5.05	TAS	4.5	1.43	m_e	mb	4.5
MOX	84.53	P	02:09:54.463	-0.1	287.9	5.05	TAS	45.5	1.85	m_e	mb	5.4
MOX	84.53	L	02:46:58.770				T__	99.1	20.20	a_e	Ms	4.2
NRDL	83.08	P	02:09:47.236	0.2	287.9	5.05	TAS	26.8	1.33	m_e	mb	5.3
RETH	82.57	P	02:09:44.858	0.1	287.9	5.05	TAS	40.1	1.48	m_e	mb	5.4
RJOB	86.19	P	02:10:02.788		287.9	5.05	TAS	12.6	1.33	m_e	mb	4.9
ROTZ	85.17	P	02:09:58.066		287.9	5.05	TAS	8.0	1.68	m_e	mb	4.7
TANN	85.11	P	02:09:57.574	-0.2	287.9	5.05	TAS	23.6	1.33	m_e	mb	5.2
TNS	82.71	P	02:09:45.224		287.9	5.05	TAS	20.9	1.37	m_e	mb	5.2
UBBA	83.50	P	02:09:49.432	0.3	287.9	5.05	TAS	39.7	1.89	m_e	mb	5.3
WET	85.78	P	02:10:01.233		287.9	5.05	TAS	36.7	1.44	m_e	mb	5.3
WLF	81.42	P	02:09:38.637		287.9	5.05	TAS	25.3	1.42	m_e	mb	5.0

Event 90717001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/17	02:43:31.82			-16.8890	-176.4360				33.0			12		145.05	148.40	m i ke	BGR
90717007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	90717007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	148.40		PKPbc	03:03:14.495		13.4		2.97		TAS				m_e		
BRG	145.09		PKPbc	03:03:04.795	0.4	13.4		2.97		TAS				m_e		
GEC2	147.07		PKPbc	03:03:10.968		13.4		2.97		TAS				m_e		
GRA1	146.70		L	04:06:31.956						T__		499.8	22.00	a_e	Ms	5.2
GRB3	146.94		PKPbc	03:03:10.842		13.4		2.97		TAS				m_e		
GRB5	147.19		PKPbc	03:03:11.405		13.4		2.97		TAS				m_e		
GTTG	145.05		PKPbc	03:03:04.669	-0.3	13.4		2.97		TAS				m_e		
KAST	145.55		PKPbc	03:03:06.180	0.2	13.4		2.97		TAS				m_e		
MOX	145.71		PKPbc	03:03:06.936	0.2	13.4		2.97		TAS				m_e		
MOX	145.71		L	04:06:03.661						T__		439.6	21.90	a_e	Ms	5.2
RJOB	148.31		PKPbc	03:03:14.243		13.4		2.97		TAS				m_e		
TANN	145.80		PKPbc	03:03:07.314	0.0	13.4		2.97		TAS				m_e		
UBBA	145.76		PKPbc	03:03:06.810	0.4	13.4		2.97		TAS				m_e		
WLF	147.24		PKPbc	03:03:12.101		13.4		2.97		TAS				m_e		

Event 90719001 Eastern Xizang-India border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/19	09:22:19.77			27.8550	92.6570				33.0			27		61.82	67.15	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90719007
MBB	6.2		BGR	90719007
Ms	5.1		BGR	90719007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	63.76		P	09:32:47.181	-0.3	77.0		6.59		TAS		17.7	0.82	a_e	MBB	6.1
BFO	66.14		P	09:33:02.631	-0.6	77.0		6.59		TAS		22.1	0.82	a_e	MBB	6.1
BRG	62.01		P	09:32:35.881	-0.2	77.0		6.59		TAS		44.5	0.87	a_e	MBB	6.2
BSEG	63.60		P	09:32:46.558	0.5	77.0		6.59		TAS		73.8	0.76	m_e	MBB	6.3
BUG	65.98		P	09:33:01.981	-0.1	77.0		6.59		TAS		49.8	0.83	a_e	MBB	6.3
CLL	62.51		P	09:32:38.714	-0.5	77.0		6.59		TAS		34.7	0.93	m_e	MBB	5.9
CLZ	64.01		P	09:32:49.331	0.2	77.0		6.59		TAS		116.0	0.77	a_e	MBB	6.4
FLT1	63.38		P	09:32:44.132	-0.3	77.0		6.59		TAS		46.4	0.83	m_e	MBB	6.1
FUR	64.27		P	09:32:51.231	0.3	77.0		6.59		TAS		150.9	0.87	a_e	MBB	6.6
GEC2	62.55		P	09:32:39.731	0.1	77.0		6.59		TAS		84.7	0.74	a_e	MBB	6.3
GRA1	63.96		P	09:32:49.207	0.1	77.0		6.59		TAS		55.1	0.92	m_e	MBB	6.3
GRA1	63.96		L	10:02:48.688						T__		945.0	19.70	a_e	Ms	5.0
GTTG	64.32		P	09:32:51.331	0.1	77.0		6.59		TAS		32.1	0.77	m_e	MBB	6.3
IBBN	65.47		P	09:32:58.631	-0.0	77.0		6.59		TAS		32.4	0.76	a_e	MBB	6.3
KAST	65.34		P	09:32:57.589	-0.1	77.0		6.59		TAS		18.4	0.87	m_e	MBB	5.8
MANZ	63.33		P	09:32:44.759	0.4	77.0		6.59		TAS		7.7	0.78	m_e	MBB	5.5
MOX	63.50		P	09:32:45.831	-0.1	77.0		6.59		TAS		30.8	0.80	m_e	MBB	6.2
MOX	63.50		L	10:05:34.501						T__		1382.3	19.70	a_e	Ms	5.1
NEUB	63.29		P	09:32:44.231	-0.2	77.0		6.59		TAS		93.6	0.84	m_e	MBB	6.3
NRDL	64.03		P	09:32:49.606	0.3	77.0		6.59		TAS		94.7	0.87	m_e	MBB	6.5
RJOB	63.38		P	09:32:44.759	0.1	77.0		6.59		TAS		77.7	0.83	m_e	MBB	6.2
ROTZ	63.32		P	09:32:45.181	0.5	77.0		6.59		TAS		27.3	0.79	a_e	MBB	5.7
RUE	61.82		P	09:32:34.438	-0.1	77.0		6.59		TAS		53.1	0.73	m_e	MBB	6.4
STU	65.47		P	09:32:58.781	-0.1	77.0		6.59		TAS		274.6	0.85	a_e	MBB	6.9
TANN	63.02		P	09:32:42.681	-0.1	77.0		6.59		TAS		30.6	0.77	a_e	MBB	6.1
TNS	65.57		P	09:32:59.243	0.3	77.0		6.59		TAS		120.7	0.91	m_e	MBB	6.3
UBBA	64.46		P	09:32:51.937	-0.3	77.0		6.59		TAS		11.3	0.67	m_e	MBB	6.0
WET	63.02		P	09:32:42.831	0.1	77.0		6.59		TAS		43.3	0.81	a_e	MBB	6.1
WLF	67.15		P	09:33:10.131	0.2	77.0		6.59		TAS		159.9	0.90	a_e	MBB	6.6

Event 90719002 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2019/07/19 11:13:14.90 6.19 1.78 38.1200 23.5200 193.5 43.4 145 13.0 29 334 10.69 18.23 m i ke EMSC  
 90719038

Magnitude Err Nsta Author OrigID  
 Ms 4.4 BGR 90719008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.85		Pn	11:15:50.702	-1.2					T__				m_e	
ASSE	16.65		Pn	11:17:12.343	-0.1					T__				m_e	
BALST	14.81		Pn	11:16:45.354	-5.2					T__				m_e	
BFO	15.03		Pn	11:16:46.799	-1.1					T__				m_e	
BRG	14.45		Pn	11:16:40.979	-5.2					T__				m_e	
BSEG	18.23		Pn	11:17:29.562	-5.2					T__				m_e	
BUG	17.56		Pn	11:17:22.365	-0.6					T__				m_e	
CLL	15.13		Pn	11:16:51.198	4.5					T__				m_e	
CLZ	16.54		Pn	11:17:10.593	1.1					T__				m_e	
FLT1	16.60		Pn	11:17:11.436	-1.0					T__				m_e	
GEC2	12.86		Pn	11:16:18.531	-0.8					T__				m_e	
GOR1	17.12		Pn	11:17:16.741	-1.5					T__				m_e	
GRA1	14.55		L	11:22:26.949						T__		2969.9	21.90	a_e Ms	4.4
GTTG	16.47		Pn	11:17:09.179	2.2					T__				m_e	
IBBN	17.96		Pn	11:17:28.644	-0.6					T__				m_e	
KAST	16.88		Pn	11:17:14.727	1.0					T__				m_e	
MANZ	14.40		Pn	11:16:41.760	-5.2					T__				m_e	
MOA	11.84		Pn	11:16:04.690	-0.5					T__				m_e	
MOX	15.11		Pn	11:16:49.524	-0.7					T__				m_e	
MOX	15.11		L	11:22:44.736						T__		3194.1	20.70	a_e Ms	4.5
NEUB	15.49		Pn	11:16:56.540	4.5					T__				m_e	
OBKA	10.69		Pn	11:15:48.415	-0.5					T__				m_e	
PLONS	13.70		Pn	11:16:29.520	-0.1					T__				m_e	
RETH	17.63		Pn	11:17:22.220	-2.3					T__				m_e	
RJOB	12.40		Pn	11:16:11.612	-0.8					T__				m_e	
ROTZ	14.19		Pn	11:16:38.884	1.5					T__				m_e	
RUE	15.88		Pn	11:17:03.258	2.1					T__				m_e	
SLE	14.61		Pn	11:16:41.370	0.1					T__				m_e	
STU	14.86		Pn	11:16:45.483	-5.2					T__				m_e	
SULZ	14.68		Pn	11:16:42.841	-0.2					T__				m_e	
TANN	14.60		Pn	11:16:44.979	1.6					T__				m_e	
TNS	16.19		Pn	11:17:06.152	2.1					T__				m_e	
UBBA	15.91		Pn	11:17:02.578	2.5					T__				m_e	
WET	13.43		Pn	11:16:25.268	-1.7					T__				m_e	
WILA	14.17		Pn	11:16:36.528	0.4					T__				m_e	
WLF	16.98		Pn	11:17:15.394	-0.1					T__				m_e	
WTTA	12.63		Pn	11:16:14.908	-0.3					T__				m_e	

Event 90719003 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/19	12:11:53.74			37.8560	24.0830				10.0					15.02	15.02	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	15.02		P	12:15:28.916		132.0		11.50		TAS		4.8	0.80	m_e	

Event 90719004 Eastern Xizang-India border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/19	22:54:33.08			28.1010	92.0830				33.0				27	61.30	66.62	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb	5.2		BGR	90719010
Ms	4.3		BGR	90719010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	63.24		P	23:04:56.837	-0.4	77.2		6.63		TAS		6.4	0.92	a_e mb	4.7
BFO	65.60		P	23:05:12.287	-0.7	77.2		6.63		TAS		7.0	0.86	a_e mb	4.9
BRG	61.48		P	23:04:45.537	-0.1	77.2		6.63		TAS		4.7	0.65	a_e mb	4.5
BSEG	63.08		P	23:04:56.437	0.6	77.2		6.63		TAS		20.9	0.72	m_e mb	5.4
BUG	65.45		P	23:05:11.687	-0.2	77.2		6.63		TAS		13.2	0.78	a_e mb	5.2
CLL	61.98		P	23:04:48.537	-0.4	77.2		6.63		TAS		11.9	1.01	a_e mb	5.1
CLZ	63.48		P	23:04:58.987	0.1	77.2		6.63		TAS		32.8	0.77	m_e mb	5.5
FLT1	62.86		P	23:04:54.087	-0.6	77.2		6.63		TAS		12.9	0.86	a_e mb	5.1
FUR	63.73		P	23:05:00.887	0.3	77.2		6.63		TAS		40.3	0.87	a_e mb	5.7
GEC2	62.01		P	23:04:49.437	0.2	77.2		6.63		TAS		25.2	0.74	a_e mb	5.5
GRA1	63.42		P	23:04:58.842	0.2	77.2		6.63		TAS		22.7	1.00	m_e mb	5.3
GRA1	63.42		L	23:34:57.730						T__		153.2	19.00	a_e Ms	4.2
GTTG	63.79		P	23:05:00.937	-0.0	77.2		6.63		TAS		10.3	0.72	a_e mb	5.2
IBBN	64.95		P	23:05:08.287	-0.2	77.2		6.63		TAS		9.5	0.73	a_e mb	5.1
KAST	64.82		P	23:05:08.020	0.3	77.2		6.63		TAS		4.6	0.92	m_e mb	4.7
MANZ	62.80		P	23:04:54.887	0.4	77.2		6.63		TAS		4.8	1.11	a_e mb	4.5
MOX	62.97		P	23:04:55.487	-0.1	77.2		6.63		TAS		11.9	0.90	a_e mb	5.0
MOX	62.97		L	23:37:13.451						T__		232.4	19.00	a_e Ms	4.4
NEUB	62.76		P	23:04:53.887	-0.3	77.2		6.63		TAS		25.2	0.82	a_e mb	5.4
NRDL	63.50		P	23:04:59.437	0.6	77.2		6.63		TAS		28.9	0.90	a_e mb	5.5
RJOB	62.84		P	23:04:54.441	-0.1	77.2		6.63		TAS		20.1	1.05	m_e mb	5.2
ROTZ	62.78		P	23:04:54.837	0.5	77.2		6.63		TAS		7.6	0.78	a_e mb	4.9
RUE	61.30		P	23:04:43.982	-0.4	77.2		6.63		TAS		20.4	0.66	m_e mb	5.1
STU	64.93		P	23:05:08.487	-0.1	77.2		6.63		TAS		78.7	0.82	a_e mb	6.0

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Wed Jul 21 10:35:31 2021

30

TANN	62.49	P	23:04:52.337	-0.1	77.2	6.63	TAS	10.9	0.83	a_e	mb	5.1
TNS	65.04	P	23:05:09.539	0.6	77.2	6.63	TAS	24.7	0.80	m_e	mb	5.5
UBBA	63.93	P	23:05:01.631	-0.3	77.2	6.63	TAS	3.6	0.66	m_e	mb	4.7
WET	62.48	P	23:04:52.487	0.1	77.2	6.63	TAS	11.9	0.79	a_e	mb	5.2
WLF	66.62	P	23:05:19.968	0.0	77.2	6.63	TAS	47.4	0.92	m_e	mb	5.7

Event 90720001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/20	09:31:51.91			-16.6000	-178.4320				33.0					146.08	146.08	m i ke	BGR
OrigID 90720007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.08		PKPbc	09:51:27.763		10.4		2.84		TAS					m_e

Event 90720003 Cook Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/20	15:16:44.70			-21.9810	-165.2080				33.0					152.20	152.20	m i ke	BGR
OrigID 90720009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	152.20		PKPbc	15:36:36.976		354.2		1.50		TAS					m_e

Event 90720005 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/20	22:36:31.57			-18.9280	173.1220				33.0					146.05	146.05	m i ke	BGR
OrigID 90720011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.05		PKPbc	22:56:07.417		29.5		3.90		TAS					m_e

Event 90721001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/21	02:50:20.31			-21.3350	169.8760				33.0			16		144.93	149.26	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.26		PKPbc	03:10:05.150		38.5		2.91		TAS					m_e
BRG	145.00		PKPbc	03:09:52.743	0.1	38.5		2.91		TAS					m_e
CLL	145.06		PKPbc	03:09:52.837	-0.4	38.5		2.91		TAS					m_e
CLZ	145.63		PKPbc	03:09:54.527	0.4	38.5		2.91		TAS					m_e
FLT1	144.93		PKPbc	03:09:52.258	0.4	38.5		2.91		TAS					m_e
GEC2	146.61		PKPbc	03:09:58.049	-0.1	38.5		2.91		TAS					m_e
GRA1	147.03		PKPbc	03:09:59.129	0.1	38.5		2.91		TAS					m_e
GTTG	146.02		PKPbc	03:09:55.806	-0.4	38.5		2.91		TAS					m_e
IBBN	146.13		PKPbc	03:09:56.119	-0.2	38.5		2.91		TAS					m_e
MANZ	146.44		PKPbc	03:09:57.473	-0.2	38.5		2.91		TAS					m_e
MOX	146.13		PKPbc	03:09:56.500	0.2	38.5		2.91		TAS					m_e
NEUB	145.63		PKPbc	03:09:54.567		38.5		2.91		TAS					m_e
RJOB	147.83		PKPbc	03:10:01.430		38.5		2.91		TAS					m_e
ROTZ	146.57		PKPbc	03:09:57.908	0.3	38.5		2.91		TAS					m_e
STU	148.57		PKPbc	03:10:03.591		38.5		2.91		TAS					m_e
TANN	145.97		PKPbc	03:09:55.889	0.2	38.5		2.91		TAS					m_e
UBBA	146.60		PKPbc	03:09:57.674	-0.0	38.5		2.91		TAS					m_e
WET	146.75		PKPbc	03:09:58.566	-0.6	38.5		2.91		TAS					m_e
WLF	148.92		PKPbc	03:10:04.999	0.1	38.5		2.91		TAS					m_e

Event 90721002 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/21	07:05:29.51	0.79	0.56	44.6330	18.7320	13.3	8.9	52	10.0			22	329	3.44	8.93	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	3.44		Sn	07:06:59.489	-0.9					T__					m_e
ARSA	3.44		Pn	07:06:22.206	0.2					T__					m_e ML 4.2
BALST	8.15		Pn	07:07:26.230	-0.4					T__					m_e
BFO	8.07		Sn	07:08:51.196	0.6					T__					m_e
BFO	8.07		Pn	07:07:24.401	-1.2					T__					m_e
DAVA	6.72		Pn	07:07:07.640	0.7					T__					m_e

FUR	6.25	Sn	07:08:06.968	-0.2	T__	m_e		
FUR	6.25	Pn	07:07:00.416	-0.1	T__	m_e ML	4.7	
GEC2	5.45	Pn	07:06:50.075	0.5	T__	m_e		
GRA1	7.20	Pn	07:07:13.148	-0.4	T__	m_e		
MANZ	6.99	Pn	07:07:10.779	0.0	T__	m_e		
MOA	4.47	Sn	07:07:25.583	0.8	T__	m_e		
MOA	4.47	Pn	07:06:36.699	0.7	T__	m_e ML	4.3	
MOX	7.70	Pn	07:07:20.442	0.0	T__	m_e		
NORI	6.91	Pn	07:07:08.964	-0.7	T__	m_e		
OBER	6.50	Pn	07:07:04.453	0.5	T__	m_e		
OBKA	3.49	Pn	07:06:22.044	-0.5	T__	m_e ML	4.4	
PLONS	6.96	Pn	07:07:11.206	0.8	T__	m_e		
RJOB	5.16	Pn	07:06:46.003	0.4	T__	m_e ML	4.4	
ROTZ	6.79	Pn	07:07:07.904	-0.1	T__	m_e		
SLE	7.76	Pn	07:07:20.474	-0.9	T__	m_e		
SULZ	7.93	Pn	07:07:23.120	-0.5	T__	m_e		
TNS	8.93	Sn	07:09:10.727	-0.2	T__	m_e		
TNS	8.93	Pn	07:07:37.203	-0.2	T__	m_e		
WET	6.04	Pn	07:06:57.949	0.3	T__	m_e ML	4.4	
WILA	7.38	Pn	07:07:16.252	0.1	T__	m_e		
WTTA	5.60	Pn	07:06:52.388	0.7	T__	m_e		

Event 90721003 Sea of Okhotsk

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/21	12:34:09.13			53.2410	154.3880				33.0			11		70.89	74.78	m i ke	BGR
OrigID 90721009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90721009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.78		P	12:45:43.665	-0.5	22.1		5.96		TAS		3.0	0.74	m_e mb	4.4
CLL	70.89		P	12:45:20.581	-0.4	22.1		5.96		TAS		4.2	0.65	m_e mb	4.7
FUR	74.23		P	12:45:40.523		22.1		5.96		TAS		10.2	0.73	m_e mb	5.0
GEC2	72.97		P	12:45:33.076	-0.3	22.1		5.96		TAS		2.1	0.58	m_e mb	4.5
GRA1	72.82		P	12:45:32.864	0.4	22.1		5.96		TAS		7.3	0.65	m_e mb	5.0
KAST	72.07		P	12:45:27.611	-0.3	22.1		5.96		TAS		3.7	0.90	m_e mb	4.5
MANZ	72.33		P	12:45:29.758	0.2	22.1		5.96		TAS		0.6	0.91	m_e mb	3.7
MOX	71.84		P	12:45:26.581	-0.1	22.1		5.96		TAS		2.3	0.60	m_e mb	4.5
RJOB	74.23		P	12:45:40.841		22.1		5.96		TAS		2.5	0.57	m_e mb	4.5
ROTZ	72.51		P	12:45:30.887	0.3	22.1		5.96		TAS		0.4	0.69	m_e mb	3.7
TNS	72.98		P	12:45:33.351	0.5	22.1		5.96		TAS		5.1	0.73	m_e mb	4.7
WET	72.91		P	12:45:33.076	0.1	22.1		5.96		TAS		2.3	0.83	m_e mb	4.3



Event 90721004 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/21	20:07:24.19			-24.3690	-178.9480				33.0				12	149.66	153.62	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	151.32		PKPbc	20:27:14.772	-0.2	21.1		2.24		TAS					m_e
BRG	151.72		PKPbc	20:27:15.815		21.1		2.24		TAS					m_e
BSEG	149.66		PKPbc	20:27:11.039	-0.2	21.1		2.24		TAS					m_e
CLL	151.57		PKPbc	20:27:15.266	0.2	21.1		2.24		TAS					m_e
CLZ	151.66		PKPbc	20:27:15.924	-0.0	21.1		2.24		TAS					m_e
FLT1	151.02		PKPbc	20:27:14.223	0.2	21.1		2.24		TAS					m_e
GEC2	153.62		PKPbc	20:27:19.821		21.1		2.24		TAS					m_e
GTTG	152.01		PKPbc	20:27:16.302	0.0	21.1		2.24		TAS					m_e
IBBN	151.64		PKPbc	20:27:15.680		21.1		2.24		TAS					m_e
KAST	152.62		PKPbc	20:27:17.862	0.0	21.1		2.24		TAS					m_e
MANZ	153.01		PKPbc	20:27:18.833		21.1		2.24		TAS					m_e
MOX	152.52		PKPbc	20:27:17.516		21.1		2.24		TAS					m_e
NEUB	151.97		PKPbc	20:27:16.349	0.0	21.1		2.24		TAS					m_e
NRDL	151.08		PKPbc	20:27:14.018	0.0	21.1		2.24		TAS					m_e
ROTZ	153.19		PKPbc	20:27:19.273		21.1		2.24		TAS					m_e
RUE	150.31		PKPbc	20:27:12.363	0.0	21.1		2.24		TAS					m_e
TANN	152.53		PKPbc	20:27:17.626		21.1		2.24		TAS					m_e
TNS	153.56		PKPbc	20:27:20.199	0.0	21.1		2.24		TAS					m_e
WET	153.58		PKPbc	20:27:20.093		21.1		2.24		TAS					m_e

Event 90722001 Mexico-Guatemala border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/22	01:08:56.01			15.1580	-91.5230				33.0					86.60	86.60	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90722007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	86.60		P	01:21:35.745		281.3		5.29		TAS		8.8	1.32	m_e mb	4.7

Event 90722002 Southwestern Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/22	20:46:59.18			24.7580	123.9000				112.3	3.4		26		82.06	87.62	m i ke	BGR
OrigID 90722008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90722008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	87.23		P	20:59:32.697		57.3		5.07		TAS		7.5	0.91	m_e	mb	4.8
BRG	82.79		P	20:59:10.294	0.7	57.3		5.07		TAS		8.2	0.78	m_e	mb	4.9
BSEG	83.06		P	20:59:11.780	0.3	57.3		5.07		TAS		21.7	0.87	m_e	mb	5.3
BUG	86.00		P	20:59:26.718		57.3		5.07		TAS		36.7	1.01	m_e	mb	5.6
CLL	83.07		P	20:59:11.690	0.1	57.3		5.07		TAS		14.2	0.78	m_e	mb	5.2
CLZ	84.18		P	20:59:17.614		57.3		5.07		TAS		22.3	0.96	m_e	mb	5.4
FLT1	83.46		P	20:59:13.951	-0.3	57.3		5.07		TAS		18.8	0.85	m_e	mb	5.2
FUR	85.69		P	20:59:25.831		57.3		5.07		TAS		43.0	0.84	m_e	mb	5.7
GEC2	83.96		P	20:59:16.610		57.3		5.07		TAS		24.0	0.89	m_e	mb	5.4
GRA1	84.89		P	20:59:21.462		57.3		5.07		TAS		12.4	0.81	m_e	mb	5.2
GTTG	84.55		P	20:59:19.387		57.3		5.07		TAS		17.3	0.84	m_e	mb	5.3
IBBN	85.25		P	20:59:23.072		57.3		5.07		TAS		31.6	0.87	m_e	mb	5.6
KAST	85.55		P	20:59:24.159		57.3		5.07		TAS		9.8	0.82	m_e	mb	5.1
MANZ	84.25		P	20:59:17.958		57.3		5.07		TAS		1.4	0.82	m_e	mb	4.2
MOX	84.17		P	20:59:17.388		57.3		5.07		TAS		3.6	0.81	m_e	mb	4.7
MOX	84.17		pP	20:59:46.818	-0.0					T__				m_e		
NEUB	83.79		P	20:59:15.212		57.3		5.07		TAS		11.6	0.84	m_e	mb	5.1
NEUB	83.79		pP	20:59:44.548	-0.0					T__				m_e		
NRDL	83.96		P	20:59:16.349	-0.0	57.3		5.07		TAS		4.2	0.78	m_e	mb	4.7
NRDL	83.96		pP	20:59:44.454	-0.0					T__				m_e		
RJOB	85.05		P	20:59:22.726		57.3		5.07		TAS		19.9	0.82	m_e	mb	5.4
ROTZ	84.31		P	20:59:18.342		57.3		5.07		TAS		2.5	0.84	m_e	mb	4.5
RUE	82.06		P	20:59:06.923	-0.0	57.3		5.07		TAS		30.5	0.99	m_e	mb	5.3
STU	86.51		P	20:59:29.373		57.3		5.07		TAS		63.3	0.80	m_e	mb	5.9
STU	86.51		pP	20:59:58.270	-0.0					T__				m_e		
TANN	83.83		P	20:59:15.514		57.3		5.07		TAS		5.1	0.86	m_e	mb	4.8
TNS	86.09		P	20:59:27.184		57.3		5.07		TAS		12.7	0.82	m_e	mb	5.2
UBBA	84.93		P	20:59:21.068		57.3		5.07		TAS		5.8	0.87	m_e	mb	4.8
WET	84.27		P	20:59:18.340		57.3		5.07		TAS		4.0	0.91	m_e	mb	4.6
WET	84.27		pP	20:59:47.011	-0.0					T__				m_e		
WLF	87.62		P	20:59:35.290		57.3		5.07		TAS		27.0	0.86	m_e	mb	5.4

Event 90722003 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/22	22:59:04.11			26.5560	54.4870				10.0			21		38.57	43.32	m i ke	BGR
OrigID																	

90722009

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90722009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	41.53		P	23:06:50.742	-0.3	108.7		8.28		TAS		8.8	0.96	m_e	mb	4.5
BRG	39.17		P	23:06:31.288	-0.3	108.7		8.28		TAS		39.8	2.16	m_e	mb	4.7
BSEG	42.40		P	23:06:57.891	0.5	108.7		8.28		TAS		15.3	1.28	m_e	mb	4.6
BUG	43.32		P	23:07:06.114	0.0	108.7		8.28		TAS				m_e		
CLL	39.88		P	23:06:37.483	0.0	108.7		8.28		TAS		7.6	0.86	m_e	mb	4.3
CLZ	41.61		P	23:06:51.559	-0.2	108.7		8.28		TAS		17.9	1.16	m_e	mb	4.7
FLT1	41.28		P	23:06:48.306	-0.5	108.7		8.28		TAS		20.9	1.00	m_e	mb	4.8
FUR	39.88		P	23:06:37.851	0.3	108.7		8.28		TAS		18.5	0.93	m_e	mb	4.7
GEC2	38.57		P	23:06:26.749	-0.1	108.7		8.28		TAS		14.4	1.47	m_e	mb	4.4
GOR1	41.49		P	23:06:50.708	0.5	108.7		8.28		TAS		23.7	1.19	m_e	mb	4.8
GRA1	40.38		P	23:06:41.850	-0.0	108.7		8.28		TAS		12.6	0.79	m_e	mb	4.6
IBBN	43.29		P	23:07:05.554	-0.1	108.7		8.28		TAS		20.8	1.20	m_e	mb	4.7
KAST	42.56		P	23:06:59.725	-0.1	108.7		8.28		TAS		36.7	1.59	m_e	mb	4.9
MANZ	39.94		P	23:06:38.109	-0.1	108.7		8.28		TAS		1.0	0.91	m_e	mb	3.4
NEUB	40.56		P	23:06:43.156	-0.0	108.7		8.28		TAS		4.9	0.72	m_e	mb	4.3
NRDL	41.99		P	23:06:54.847	0.1	108.7		8.28		TAS		25.0	0.97	m_e	mb	4.9
RETH	42.50		P	23:06:58.963	0.1	108.7		8.28		TAS		10.4	1.21	m_e	mb	4.4
RJOB	38.78		P	23:06:28.741	0.3	108.7		8.28		TAS		5.1	0.76	m_e	mb	4.2
ROTZ	39.81		P	23:06:37.006	-0.1	108.7		8.28		TAS		2.0	1.00	m_e	mb	3.7
TNS	42.25		P	23:06:57.261	-0.1	108.7		8.28		TAS		13.1	1.28	m_e	mb	4.5
WET	39.18		P	23:06:32.005	0.1	108.7		8.28		TAS		6.0	1.13	m_e	mb	4.1

Event 90723001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/23	01:56:07.20			-17.7170	176.8560				33.0			17		143.65	148.06	m i ke	BGR

90723007

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	143.97		PKPbc	02:15:34.026		25.0		4.29		TAS				m_e	
BFO	148.06		PKPbc	02:15:51.871		25.0		4.29		TAS				m_e	
BRG	144.22		PKPbc	02:15:35.303		25.0		4.29		TAS				m_e	
CLL	144.11		PKPbc	02:15:34.628		25.0		4.29		TAS				m_e	
CLZ	144.31		PKPbc	02:15:35.482		25.0		4.29		TAS				m_e	
FLT1	143.65		PKPbc	02:15:32.452		25.0		4.29		TAS				m_e	
FUR	147.43		PKPbc	02:15:49.130		25.0		4.29		TAS				m_e	
GEC2	146.07		PKPbc	02:15:43.450		25.0		4.29		TAS				m_e	
GRA1	146.06		PKPbc	02:15:43.049		25.0		4.29		TAS				m_e	

GTTG	144.68	PKPbc	02:15:37.217	25.0	4.29	TAS	m_e
IBBN	144.43	PKPbc	02:15:36.281	25.0	4.29	TAS	m_e
MANZ	145.55	PKPbc	02:15:40.791	25.0	4.29	TAS	m_e
MOX	145.09	PKPbc	02:15:38.692	25.0	4.29	TAS	m_e
RJOB	147.33	PKPbc	02:15:48.904	25.0	4.29	TAS	m_e
ROTZ	145.72	PKPbc	02:15:41.363	25.0	4.29	TAS	m_e
TNS	146.26	PKPbc	02:15:44.004	25.0	4.29	TAS	m_e
WET	146.07	PKPbc	02:15:43.255	25.0	4.29	TAS	m_e

Event 90723002 Peru-Ecuador border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/23	11:45:05.69			-0.5100	-75.0600				135.3	1.3		20		84.69	89.76	m i ke	BGR
OrigID 90723008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90723008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	87.77	P		11:57:39.393	0.3	265.6		4.84		TAS		11.6	1.23	m_e mb	5.1
BRG	89.76	P		11:57:48.770		265.6		4.84		TAS		8.9	0.83	m_e mb	5.0
BSEG	87.68	P		11:57:39.117	0.1	265.6		4.84		TAS		11.4	0.81	m_e mb	5.2
BUG	85.60	P		11:57:28.806		265.6		4.84		TAS		25.7	0.79	m_e mb	5.4
CLL	89.18	P		11:57:45.951	0.3	265.6		4.84		TAS		7.0	0.73	m_e mb	5.0
CLZ	87.57	P		11:57:38.244	0.3	265.6		4.84		TAS		8.1	0.82	m_e mb	5.1
FLT1	88.13	P		11:57:41.137	0.3	265.6		4.84		TAS		5.6	0.71	m_e mb	5.0
FLT1	88.13	pP		11:58:15.730	0.1					T__				m_e	
GEC2	89.56	P		11:57:47.406		265.6		4.84		TAS		2.3	0.73	m_e mb	4.5
GTTG	87.29	P		11:57:36.893	0.3	265.6		4.84		TAS		9.5	0.92	m_e mb	5.1
IBBN	86.00	P		11:57:30.495	0.1	265.6		4.84		TAS		30.4	0.79	m_e mb	5.5
KAST	86.30	P		11:57:31.965	-0.3	265.6		4.84		TAS		7.8	0.79	m_e mb	4.9
MANZ	88.56	P		11:57:43.373		265.6		4.84		TAS		1.6	0.79	m_e mb	4.3
MANZ	88.56	pP		11:58:17.432	0.1					T__				m_e	
MOX	88.28	P		11:57:41.738		265.6		4.84		TAS		2.6	0.82	m_e mb	4.5
NEUB	88.40	P		11:57:42.133		265.6		4.84		TAS		12.9	0.63	m_e mb	5.3
NEUB	88.40	pP		11:58:16.593	0.1					T__				m_e	
NRDL	87.45	P		11:57:37.811	0.3	265.6		4.84		TAS		8.7	1.05	m_e mb	5.0
NRDL	87.45	pP		11:58:12.137	0.1					T__				m_e	
RJOB	88.93	P		11:57:44.653		265.6		4.84		TAS		9.7	0.75	m_e mb	5.1
ROTZ	88.61	P		11:57:43.451		265.6		4.84		TAS		1.7	0.84	m_e mb	4.3
TANN	88.80	P		11:57:44.586		265.6		4.84		TAS		9.9	0.90	m_e mb	5.0
WET	89.03	P		11:57:45.071		265.6		4.84		TAS		5.3	0.87	m_e mb	4.8
WLF	84.69	P		11:57:24.752		265.6		4.84		TAS		34.7	0.80	m_e mb	5.6

Event 90723003 East of North Island, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/23	23:08:46.66			-39.6200	-174.3700				33.0				17	165.33	171.08	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	171.08		PKPdf	23:28:53.883		20.3		0.75		TAS					m_e
BRG	167.32		PKPdf	23:28:51.340	0.5	20.3		0.75		TAS					m_e
BSEG	165.33		PKPdf	23:28:49.663	-0.1	20.3		0.75		TAS					m_e
CLL	167.23		PKPdf	23:28:51.097		20.3		0.75		TAS					m_e
CLZ	167.34		PKPdf	23:28:51.241	-0.2	20.3		0.75		TAS					m_e
FLT1	166.71		PKPdf	23:28:50.566		20.3		0.75		TAS					m_e
GEC2	169.12		PKPdf	23:28:52.425		20.3		0.75		TAS					m_e
GRA1	169.18		PKPdf	23:28:51.833		20.3		0.75		TAS					m_e
IBBN	167.22		PKPdf	23:28:51.235		20.3		0.75		TAS					m_e
MANZ	168.66		PKPdf	23:28:52.721		20.3		0.75		TAS					m_e
MOX	168.20		PKPdf	23:28:51.636	0.0	20.3		0.75		TAS					m_e
NEUB	167.65		PKPdf	23:28:51.081		20.3		0.75		TAS					m_e
RJOB	170.37		PKPdf	23:28:53.229		20.3		0.75		TAS					m_e
ROTZ	168.83		PKPdf	23:28:52.425		20.3		0.75		TAS					m_e
TANN	168.18		PKPdf	23:28:52.129	-0.1	20.3		0.75		TAS					m_e
TNS	169.21		PKPdf	23:28:52.622	-0.3	20.3		0.75		TAS					m_e
WET	169.16		PKPdf	23:28:52.622		20.3		0.75		TAS					m_e

Event 90724001 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/24	15:38:29.86			4.3780	-32.1690				12.2					58.11	58.11	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90724007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	58.11		P	15:48:21.093		228.3		6.73		TAS		37.4	2.21	m_e mb	5.0
GRA1	58.11		sP	15:48:25.935						T__				m_e	

Event 90724002 Near west coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2019/07/24 22:14:38.57 36.9900 136.2200 33.0 21 78.14 83.22 m i ke BGR  
 90724008

Magnitude Err Nsta Author OrigID  
 mb 4.5 BGR 90724008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	83.22		P	22:27:01.938		41.1		5.27		TAS		7.0	0.95	m_e mb	4.9
BRG	78.90		P	22:26:39.544	1.1	41.1		5.27		TAS				m_e	
BSEG	78.14		P	22:26:35.051	0.6	41.1		5.27		TAS		5.5	0.82	m_e mb	4.7
CLL	78.99		P	22:26:39.593	0.2	41.1		5.27		TAS		7.4	0.90	m_e mb	4.7
CLZ	79.69		P	22:26:43.339		41.1		5.27		TAS				m_e	
FLT1	78.97		P	22:26:39.798		41.1		5.27		TAS		5.8	0.86	m_e mb	4.6
GEC2	80.48		P	22:26:46.948		41.1		5.27		TAS		3.9	1.01	m_e mb	4.3
GRA1	80.95		P	22:26:50.058		41.1		5.27		TAS		13.1	1.07	m_e mb	4.9
GTTG	80.08		P	22:26:45.591		41.1		5.27		TAS				m_e	
IBBN	80.38		P	22:26:47.011		41.1		5.27		TAS		5.9	0.87	m_e mb	4.5
KAST	80.97		P	22:26:50.148		41.1		5.27		TAS				m_e	
MANZ	80.35		P	22:26:46.574		41.1		5.27		TAS		0.7	0.89	m_e mb	3.6
MOX	80.07		P	22:26:45.535		41.1		5.27		TAS		2.6	0.99	m_e mb	4.1
NEUB	79.59		P	22:26:42.771		41.1		5.27		TAS		9.1	0.81	m_e mb	4.8
NRDL	79.31		P	22:26:40.901	-0.7	41.1		5.27		TAS		3.9	0.77	m_e mb	4.5
RJOB	81.70		P	22:26:54.594		41.1		5.27		TAS		3.8	0.90	m_e mb	4.5
ROTZ	80.47		P	22:26:47.807		41.1		5.27		TAS		1.9	1.16	m_e mb	3.9
TANN	79.88		P	22:26:44.324	1.1	41.1		5.27		TAS				m_e	
UBBA	80.62		P	22:26:48.380		41.1		5.27		TAS				m_e	
WET	80.63		P	22:26:48.291		41.1		5.27		TAS		3.7	1.08	m_e mb	4.3
WLF	83.08		P	22:27:01.533		41.1		5.27		TAS		5.2	0.87	m_e mb	4.8

Event 90725001 Tonga Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2019/07/25 14:13:29.04 -20.0720 -172.3120 57.3 2.6 18 146.14 152.09 m i ke BGR  
 90725007

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	147.92		PKPbc	14:33:11.089	-0.2	6.7		2.54		TAS				m_e	
ASSE	147.92		pPKPbc	14:33:27.294						T__				m_e	
BFO	151.81		PKPbc	14:33:20.869		6.7		2.54		TAS				m_e	
BRG	148.87		PKPbc	14:33:13.164	0.1	6.7		2.54		TAS				m_e	
BSEG	146.14		PKPbc	14:33:06.094	-0.2	6.7		2.54		TAS				m_e	
CLL	148.55		PKPbc	14:33:12.449	0.0	6.7		2.54		TAS				m_e	
CLZ	148.22		PKPbc	14:33:11.893	0.4	6.7		2.54		TAS				m_e	

FLT1	147.69	PKPbc	14:33:10.066	-0.7	6.7	2.54	TAS	m_e
FLT1	147.69	pPKPbc	14:33:26.920				T__	m_e
GEC2	150.89	PKPbc	14:33:18.312		6.7	2.54	TAS	m_e
IBBN	147.83	PKPbc	14:33:10.531		6.7	2.54	TAS	m_e
IBBN	147.83	pPKPbc	14:33:27.769				T__	m_e
KAST	148.93	PKPbc	14:33:13.448	0.0	6.7	2.54	TAS	m_e
MANZ	149.94	PKPbc	14:33:16.182	0.2	6.7	2.54	TAS	m_e
MOX	149.33	PKPbc	14:33:14.499	0.2	6.7	2.54	TAS	m_e
NRDL	147.59	PKPbc	14:33:09.791		6.7	2.54	TAS	m_e
NRDL	147.59	pPKPbc	14:33:26.870				T__	m_e
RJOB	152.09	PKPbc	14:33:20.869		6.7	2.54	TAS	m_e
ROTZ	150.15	PKPbc	14:33:16.739	-0.0	6.7	2.54	TAS	m_e
RUE	147.31	PKPbc	14:33:09.174	0.2	6.7	2.54	TAS	m_e
TANN	149.49	PKPbc	14:33:14.911	0.2	6.7	2.54	TAS	m_e
TNS	149.91	PKPbc	14:33:16.103	0.3	6.7	2.54	TAS	m_e
WET	150.70	PKPbc	14:33:17.800		6.7	2.54	TAS	m_e
WLF	150.45	PKPbc	14:33:17.930	-0.7	6.7	2.54	TAS	m_e

Event 90725002 Chagos Archipelago region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/25	20:47:20.78			-6.6050	68.1130				34.9	2.9		14		72.71	77.65	m i ke	BGR
90725008																	

Magnitude Err Nsta Author  
mb 4.3 BGR

OrigID  
90725008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	75.61		P	20:59:03.829	-0.1	120.4		5.79		TAS		2.9	0.89	m_e mb	4.4
BRG	73.74		P	20:58:52.785	-0.3	120.4		5.79		TAS		1.7	0.86	m_e mb	4.1
BRG	73.74		sP	20:59:07.139						T__				m_e	
BUG	77.65		P	20:59:15.971	0.2	120.4		5.79		TAS				m_e	
BUG	77.65		sP	20:59:29.758						T__				m_e	
CLL	74.47		P	20:58:57.438	0.1	120.4		5.79		TAS		4.2	0.91	m_e mb	4.5
CLZ	76.15		P	20:59:06.990	-0.1	120.4		5.79		TAS		2.8	0.83	m_e mb	4.4
CLZ	76.15		sP	20:59:21.720						T__				m_e	
FUR	73.80		P	20:58:53.250	-0.2	120.4		5.79		TAS		12.6	0.76	m_e mb	5.0
GRA1	74.60		P	20:58:57.784	-0.3	120.4		5.79		TAS		13.1	1.02	m_e mb	4.9
GTTG	76.22		P	20:59:07.443	-0.1	120.4		5.79		TAS		7.3	1.08	m_e mb	4.7
GTTG	76.22		sP	20:59:22.140						T__				m_e	
MANZ	74.26		P	20:58:56.042	-0.1	120.4		5.79		TAS		0.5	0.88	m_e mb	3.5
MOX	74.87		P	20:58:59.765	0.1	120.4		5.79		TAS		3.7	1.00	m_e mb	4.4
MOX	74.87		sP	20:59:13.876						T__				m_e	
RJOB	72.71		P	20:58:47.382	0.2	120.4		5.79		TAS		1.7	0.73	m_e mb	4.3
ROTZ	74.09		P	20:58:55.577	0.4	120.4		5.79		TAS		0.6	0.97	m_e mb	3.6
ROTZ	74.09		sP	20:59:08.513						T__				m_e	

TANN	74.29	P	20:58:56.417	0.1	120.4		5.79	TAS		1.6	0.87	m_e	mb	4.1
TNS	76.42	P	20:59:08.633	-0.0	120.4		5.79	TAS				m_e		

Event 90726003 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/26	20:16:57.40			20.7400	121.9900				10.0			12		84.28	89.86	m i ke	EMSC
OrigID 90726035																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90726009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	86.13		P	20:29:37.870	-0.5	61.2		4.96		TAS		22.6	1.26	m_e	mb	5.2
BRG	84.91		P	20:29:31.762	0.0	61.2		4.96		TAS		17.1	0.92	m_e	mb	5.3
BSEG	85.44		P	20:29:34.142	-0.1	61.2		4.96		TAS		17.3	0.90	m_e	mb	5.3
CLL	85.25		P	20:29:33.974	0.2	61.2		4.96		TAS		24.0	0.83	m_e	mb	5.5
CLZ	86.44		P	20:29:39.835		61.2		4.96		TAS		16.7	0.93	m_e	mb	5.2
FLT1	85.73		P	20:29:36.040	-0.4	61.2		4.96		TAS		11.8	0.82	m_e	mb	5.1
GEC2	85.97		P	20:29:37.863	1.0	61.2		4.96		TAS		9.9	0.88	m_e	mb	5.0
MANZ	86.36		P	20:29:40.330		61.2		4.96		TAS		1.7	1.02	m_e	mb	4.1
MOX	86.33		P	20:29:39.606		61.2		4.96		TAS		7.8	1.04	m_e	mb	4.8
RJOB	87.02		P	20:29:44.632		61.2		4.96		TAS		9.9	0.85	m_e	mb	5.0
ROTZ	86.41		P	20:29:39.594		61.2		4.96		TAS		1.7	0.88	m_e	mb	4.2
RUE	84.28		P	20:29:29.271	-0.8	61.2		4.96		TAS		46.3	0.88	m_e	mb	5.7
WLF	89.86		P	20:29:56.279		61.2		4.96		TAS		23.0	0.95	m_e	mb	5.4

Event 90726004 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/26	21:14:48.30			51.3300	-174.8700				30.0			18		75.02	81.09	m i ke	EMSC
OrigID 90726036																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90726010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	77.90		P	21:26:42.777	0.2	3.9		5.68		TAS		5.2	0.76	m_e	mb	4.7
BSEG	75.02		P	21:26:26.662	0.3	3.9		5.68		TAS		11.6	0.73	m_e	mb	5.0
BUG	77.59		P	21:26:41.241	0.6	3.9		5.68		TAS		8.6	0.76	m_e	mb	5.0
CLL	77.52		P	21:26:39.949	-0.7	3.9		5.68		TAS		6.8	0.74	m_e	mb	4.9
CLZ	77.11		P	21:26:39.202	0.1	3.9		5.68		TAS		8.8	0.70	m_e	mb	5.0
FLT1	76.59		P	21:26:35.265	0.2	3.9		5.68		TAS		7.9	0.68	m_e	mb	5.0



GEC2	79.94	P	21:26:54.465	3.9	5.68	TAS	2.9	0.79	m_e	mb	4.3	
GRA1	79.22	P	21:26:50.978	3.9	5.68	TAS	8.0	0.67	m_e	mb	4.9	
GTTG	77.42	P	21:26:40.658	0.2	3.9	5.68	TAS	9.7	0.84	m_e	mb	5.0
IBBN	76.71	P	21:26:36.797	-0.3	3.9	5.68	TAS	16.1	0.71	m_e	mb	5.2
KAST	77.81	P	21:26:42.360	0.4	3.9	5.68	TAS	6.2	1.09	m_e	mb	4.7
MANZ	78.89	P	21:26:48.546	3.9	5.68	TAS	0.6	0.79	m_e	mb	3.7	
MOX	78.25	P	21:26:44.274	3.9	5.68	TAS	5.0	0.83	m_e	mb	4.7	
RJOB	81.09	P	21:27:00.531	3.9	5.68	TAS	2.4	0.74	m_e	mb	4.3	
ROTZ	79.10	P	21:26:48.922	3.9	5.68	TAS	0.8	0.77	m_e	mb	3.8	
TNS	78.79	P	21:26:48.281	3.9	5.68	TAS	7.1	0.78	m_e	mb	4.8	
WET	79.69	P	21:26:53.027	3.9	5.68	TAS	1.6	0.84	m_e	mb	4.0	
WLF	79.38	P	21:26:51.756	3.9	5.68	TAS	6.3	0.73	m_e	mb	4.7	

Event 90726006 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/26	23:37:58.30			20.7800	122.0500				10.0			24		84.28	89.86	m i ke	EMSC
	90726038																

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90726012
Ms	6.2		BGR	90726012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	86.13	P		23:50:38.896		61.1		4.86		TAS		156.1	1.70	m_e	mb	5.9
BFO	89.34	P		23:50:54.312		61.1		4.86		TAS		52.7	1.61	m_e	mb	5.5
BRG	84.92	P		23:50:32.615	-0.2	61.1		4.86		TAS		71.9	1.10	m_e	mb	5.8
BSEG	85.44	P		23:50:35.551	-0.8	61.1		4.86		TAS		219.5	1.65	m_e	mb	6.1
CLL	85.25	P		23:50:34.268	0.6	61.1		4.86		TAS		56.7	0.92	m_e	mb	5.8
CLZ	86.44	P		23:50:40.739	0.9	61.1		4.86		TAS		196.1	1.51	m_e	mb	6.0
FLT1	85.73	P		23:50:36.104	-0.3	61.1		4.86		TAS		56.7	1.01	m_e	mb	5.7
FUR	87.72	P		23:50:47.038		61.1		4.86		TAS		78.5	1.22	a_e	mb	5.9
GEC2	85.98	P		23:50:37.952	0.2	61.1		4.86		TAS		133.3	1.57	m_e	mb	5.8
GOR1	85.38	P		23:50:35.788	0.1	61.1		4.86		TAS		324.4	1.44	a_e	mb	6.3
GRA1	87.01	P		23:50:43.302	0.3	61.1		4.86		TAS		254.9	2.08	m_e	mb	6.0
GRA1	87.01	L		00:31:56.590						T__		8034.4	19.70	a_e	Ms	6.1
GTTG	86.80	P		23:50:42.347		61.1		4.86		TAS		179.9	1.70	m_e	mb	5.9
KAST	87.81	P		23:50:47.309		61.1		4.86		TAS		82.8	1.68	m_e	mb	5.8
MANZ	86.37	P		23:50:40.205	0.4	61.1		4.86		TAS		16.3	1.40	m_e	mb	5.0
MOX	86.33	P		23:50:38.714	-0.4	61.1		4.86		TAS		100.1	1.57	m_e	mb	5.7
MOX	86.33	L		00:33:27.500						T__		12503.2	19.00	a_e	Ms	6.3
NEUB	85.98	P		23:50:38.338	0.0	61.1		4.86		TAS		171.8	1.46	a_e	mb	6.0
NRDL	86.26	P		23:50:39.492	-1.1	61.1		4.86		TAS		147.6	1.34	m_e	mb	5.9
RETH	86.53	P		23:50:41.000	0.1	61.1		4.86		TAS		90.2	1.28	m_e	mb	5.8
RJOB	87.02	P		23:50:43.171	-0.1	61.1		4.86		TAS		22.5	1.02	m_e	mb	5.2
ROTZ	86.41	P		23:50:39.701	0.2	61.1		4.86		TAS		49.8	1.89	m_e	mb	5.3

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Wed Jul 21 10:35:31 2021

42

RUE	84.28	P	23:50:29.874	-0.3	61.1	4.86	TAS	127.1	0.94	m_e	mb	6.1
STU	88.62	P	23:50:50.788		61.1	4.86	TAS	31.5	0.66	a_e	mb	5.7
TANN	85.97	P	23:50:37.668	0.0	61.1	4.86	TAS	104.7	1.68	m_e	mb	5.7
UBBA	87.14	P	23:50:44.088	-0.1	61.1	4.86	TAS	94.3	1.57	a_e	mb	5.7
WET	86.32	P	23:50:39.492	0.3	61.1	4.86	TAS	54.8	1.47	m_e	mb	5.5
WLF	89.86	P	23:50:56.278		61.1	4.86	TAS	135.1	1.28	m_e	mb	6.0

Event 90727001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/27	00:23:13.40			-16.0900	-175.0200			309.0				13		144.07	147.79	m i ke	EMSC
90727033																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.73		PKPbc	00:42:21.972		10.8		3.06		TAS				m_e	
BUG	144.69		PKPbc	00:42:12.526	-0.2	10.8		3.06		TAS				m_e	
CLZ	144.07		PKPbc	00:42:10.850	0.0	10.8		3.06		TAS				m_e	
GEC2	146.56		PKPbc	00:42:18.686		10.8		3.06		TAS				m_e	
GTTG	144.41		PKPbc	00:42:12.060	-0.3	10.8		3.06		TAS				m_e	
KAST	144.87		PKPbc	00:42:13.489		10.8		3.06		TAS				m_e	
MANZ	145.70		PKPbc	00:42:16.338		10.8		3.06		TAS				m_e	
MOX	145.12		PKPbc	00:42:14.236		10.8		3.06		TAS				m_e	
RJOB	147.79		PKPbc	00:42:22.205		10.8		3.06		TAS				m_e	
ROTZ	145.90		PKPbc	00:42:16.193		10.8		3.06		TAS				m_e	
TANN	145.23		PKPbc	00:42:14.762		10.8		3.06		TAS				m_e	
TNS	145.84		PKPbc	00:42:16.746		10.8		3.06		TAS				m_e	
WLF	146.50		PKPbc	00:42:19.280		10.8		3.06		TAS				m_e	

Event 90727002 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/27	01:24:42.87			20.3270	122.2410			10.0				27		84.76	90.33	m i ke	BGR
90727008																	

Magnitude Err Nsta Author OrigID

mb	5.5		BGR	90727008
Ms	5.9		BGR	90727008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	86.60		P	01:37:25.205	0.3	61.2		4.82		TAS		48.1	1.27	a_e	mb	5.5
BFO	89.81		P	01:37:40.105		61.2		4.82		TAS		11.8	1.12	m_e	mb	5.0

BRG	85.38	P	01:37:19.205	0.1	61.2	4.82	TAS	44.5	1.06	a_e	mb	5.6
BSEG	85.91	P	01:37:21.805	-0.0	61.2	4.82	TAS	43.0	0.97	a_e	mb	5.5
CLL	85.72	P	01:37:20.455	0.1	61.2	4.82	TAS	57.8	1.03	m_e	mb	5.7
CLZ	86.91	P	01:37:27.105	-0.5	61.2	4.82	TAS	62.8	1.16	a_e	mb	5.6
FLT1	86.20	P	01:37:22.655	0.4	61.2	4.82	TAS	45.1	1.10	a_e	mb	5.5
FUR	88.18	P	01:37:33.055		61.2	4.82	TAS	34.4	0.83	a_e	mb	5.7
GEC2	86.44	P	01:37:24.555	0.0	61.2	4.82	TAS	38.0	1.08	a_e	mb	5.5
GOR1	85.85	P	01:37:21.805	0.3	61.2	4.82	TAS	77.1	1.03	a_e	mb	5.8
GRA1	87.48	P	01:37:29.955	-0.6	61.2	4.82	TAS	124.4	1.98	a_e	mb	5.7
GRA1	87.48	L	02:18:42.487				T__	3506.3	19.50	a_e	Ms	5.8
GTTG	87.27	P	01:37:28.705	-0.1	61.2	4.82	TAS	28.6	0.99	a_e	mb	5.4
IBBN	88.07	P	01:37:32.205	0.0	61.2	4.82	TAS	49.0	1.10	a_e	mb	5.8
MANZ	86.83	P	01:37:26.655	0.4	61.2	4.82	TAS	4.8	1.19	a_e	mb	4.5
MOX	86.80	P	01:37:26.155	-0.4	61.2	4.82	TAS	22.1	1.08	a_e	mb	5.2
MOX	86.80	L	02:20:13.146				T__	5581.3	18.80	a_e	Ms	6.0
NEUB	86.45	P	01:37:24.355	-0.0	61.2	4.82	TAS	47.9	1.04	a_e	mb	5.6
NRDL	86.73	P	01:37:26.155	-0.0	61.2	4.82	TAS	47.6	1.11	a_e	mb	5.5
RETH	87.00	P	01:37:27.105	-0.2	61.2	4.82	TAS	26.5	1.00	a_e	mb	5.3
RJOB	87.48	P	01:37:29.505		61.2	4.82	TAS	20.9	0.88	a_e	mb	5.3
ROTZ	86.88	P	01:37:26.155	0.1	61.2	4.82	TAS	4.7	1.02	a_e	mb	4.6
RUE	84.76	P	01:37:16.055	-0.6	61.2	4.82	TAS	106.3	1.05	a_e	mb	6.0
STU	89.09	P	01:37:36.855		61.2	4.82	TAS	27.7	0.74	a_e	mb	5.6
TANN	86.43	P	01:37:24.355	0.1	61.2	4.82	TAS	131.2	2.30	a_e	mb	5.7
TNS	88.77	P	01:37:35.755	0.5	61.2	4.82	TAS	242.0	2.81	a_e	mb	5.9
UBBA	87.61	P	01:37:30.155	0.3	61.2	4.82	TAS	71.9	1.95	a_e	mb	5.7
WET	86.78	P	01:37:26.505	0.2	61.2	4.82	TAS	75.5	1.99	a_e	mb	5.5
WLF	90.33	P	01:37:43.255	-0.4	61.2	4.82	TAS	48.2	1.08	a_e	mb	5.7

Event 90727004 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/27	06:40:10.30			51.2900	-174.8300			30.0				16		75.06	81.14	m i ke	EMSC
	90727036																

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90727010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	77.94		P	06:52:05.258		3.9		5.58		TAS		4.7	0.83	m_e	mb	4.7
BSEG	75.06		P	06:51:49.578	-0.4	3.9		5.58		TAS		12.6	0.96	m_e	mb	4.9
CLL	77.56		P	06:52:02.950	0.5	3.9		5.58		TAS		4.0	0.76	m_e	mb	4.6
CLZ	77.15		P	06:52:01.712	-0.2	3.9		5.58		TAS		7.3	0.86	m_e	mb	4.8
FLT1	76.63		P	06:51:57.842	-0.1	3.9		5.58		TAS		5.8	0.81	m_e	mb	4.8
GEC2	79.98		P	06:52:16.424		3.9		5.58		TAS		2.8	0.97	m_e	mb	4.2
GRA1	79.27		P	06:52:13.420		3.9		5.58		TAS		6.4	0.84	m_e	mb	4.7
GTTG	77.46		P	06:52:03.376	-0.1	3.9		5.58		TAS		8.2	0.91	m_e	mb	4.8

IBBN	76.76	P	06:51:59.433	0.2	3.9	5.58	TAS	13.2	0.89	m_e	mb	5.1
KAST	77.85	P	06:52:05.309	0.0	3.9	5.58	TAS	2.6	0.82	m_e	mb	4.4
MANZ	78.93	P	06:52:10.734		3.9	5.58	TAS	0.6	0.92	m_e	mb	3.6
MOX	78.30	P	06:52:07.377		3.9	5.58	TAS	5.7	0.97	m_e	mb	4.7
RJOB	81.14	P	06:52:23.036		3.9	5.58	TAS	2.5	0.85	m_e	mb	4.3
ROTZ	79.14	P	06:52:11.234		3.9	5.58	TAS	0.5	0.83	m_e	mb	3.5
TANN	78.48	P	06:52:08.626		3.9	5.58	TAS	3.4	1.11	m_e	mb	4.4
TNS	78.83	P	06:52:10.713		3.9	5.58	TAS	6.7	0.92	m_e	mb	4.7
WLF	79.42	P	06:52:14.380		3.9	5.58	TAS	6.2	0.79	m_e	mb	4.7

Event 90727005 Afghanistan-Tajikistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/27	06:56:45.00			36.5600	71.5600				115.0			12		42.94	48.05	m i ke	EMSC
OrigID 90727037																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90727011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	46.87		P	07:05:03.554		83.3		8.18		TAS		10.8	1.22	m_e	mb	4.8
BRG	42.94		P	07:04:33.223		83.3		8.18		TAS		30.7	0.62	m_e	mb	5.2
BSEG	44.98		P	07:04:49.431	-0.2	83.3		8.18		TAS		55.2	0.64	m_e	mb	5.6
BUG	47.07		P	07:05:05.754		83.3		8.18		TAS		22.7	0.93	m_e	mb	5.3
CLL	43.51		P	07:04:37.269		83.3		8.18		TAS		18.0	0.74	m_e	mb	4.9
CLZ	45.10		P	07:04:50.434		83.3		8.18		TAS		21.7	0.76	m_e	mb	5.2
FLT1	44.53		P	07:04:45.209	0.0	83.3		8.18		TAS		85.8	0.59	m_e	mb	5.9
GOR1	44.44		P	07:04:44.476	0.2	83.3		8.18		TAS		30.6	0.76	m_e	mb	5.1
GRA1	44.79		P	07:04:48.669		83.3		8.18		TAS		255.4	2.60	m_e	mb	5.7
GTTG	45.38		P	07:04:52.816	0.0	83.3		8.18		TAS		39.9	0.70	m_e	mb	5.5
IBBN	46.66		P	07:05:02.530		83.3		8.18		TAS		46.6	0.71	m_e	mb	5.7
KAST	46.38		P	07:05:00.154		83.3		8.18		TAS		5.3	0.89	m_e	mb	4.6
MANZ	44.18		P	07:04:43.543		83.3		8.18		TAS		3.5	0.93	m_e	mb	4.1
MOX	44.43		P	07:04:45.281		83.3		8.18		TAS		13.0	0.76	m_e	mb	4.7
NEUB	44.28		P	07:04:43.809		83.3		8.18		TAS		34.8	0.74	m_e	mb	5.2
NRDL	45.21		P	07:04:51.311	-0.5	83.3		8.18		TAS		23.2	0.74	m_e	mb	5.2
RETH	45.64		P	07:04:54.411	-0.1	83.3		8.18		TAS		17.5	1.07	m_e	mb	5.0
RGN	43.20		P	07:04:35.003		83.3		8.18		TAS		110.3	0.72	m_e	mb	5.7
RJOB	43.99		P	07:04:41.323		83.3		8.18		TAS		9.3	0.85	m_e	mb	4.5
ROTZ	44.14		P	07:04:42.343		83.3		8.18		TAS		3.5	1.00	m_e	mb	4.0
RUE	42.97		P	07:04:32.755	-0.0	83.3		8.18		TAS		49.3	0.84	m_e	mb	5.3
STU	46.23		P	07:04:59.397		83.3		8.18		TAS		36.0	0.87	m_e	mb	5.4
TANN	43.92		P	07:04:41.149		83.3		8.18		TAS		13.9	1.03	m_e	mb	4.6
TNS	46.49		P	07:05:01.225		83.3		8.18		TAS		10.7	0.99	m_e	mb	4.8
UBBA	45.44		P	07:04:52.923		83.3		8.18		TAS		10.7	0.58	m_e	mb	5.0
WLF	48.05		P	07:05:13.741		83.3		8.18		TAS		26.4	0.80	m_e	mb	5.4

Event 90727007 Near south coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/27	18:31:05.62			33.0400	137.9100				373.7	3.8		30		81.89	87.31	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	90727013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	83.46		P	18:42:52.170	0.3	42.6		4.94		TAS		74.5	0.98	a_e mb	5.9
BFO	87.31		P	18:43:10.620	-0.0	42.6		4.94		TAS		41.4	0.61	a_e mb	5.7
BRG	82.97		P	18:42:49.870	0.1	42.6		4.94		TAS		87.0	0.68	a_e mb	6.1
BRG	82.97		pP	18:44:16.321						T__				m_e	
BSEG	82.26		P	18:42:46.220	0.3	42.6		4.94		TAS		265.6	1.34	a_e mb	6.2
BUG	85.37		P	18:43:01.370	-0.2	42.6		4.94		TAS		132.8	1.17	a_e mb	6.1
BUG	85.37		PP	18:46:25.542						T__				m_e	
CLL	83.07		P	18:42:50.120	0.1	42.6		4.94		TAS		153.2	0.62	a_e mb	6.4
CLZ	83.80		P	18:42:54.220	0.1	42.6		4.94		TAS		122.6	0.79	m_e mb	6.2
FLT1	83.07		P	18:42:49.820	-0.1	42.6		4.94		TAS		169.3	0.66	a_e mb	6.4
FLT1	83.07		pP	18:44:15.682						T__				m_e	
FUR	86.13		P	18:43:05.420	0.1	42.6		4.94		TAS		85.9	0.65	a_e mb	6.0
FUR	86.13		pP	18:44:32.620						T__				m_e	
GEC2	84.52		P	18:42:57.320	-0.1	42.6		4.94		TAS		47.5	0.65	a_e mb	5.9
GOR1	82.56		P	18:42:48.120	-0.1	42.6		4.94		TAS		314.6	1.30	a_e mb	6.4
GRA1	85.03		P	18:43:00.570	0.3	42.6		4.94		TAS		277.4	1.57	a_e mb	6.2
GRA1	85.03		PP	18:46:21.995						T__				m_e	
GTTG	84.19		P	18:42:55.970	-0.3	42.6		4.94		TAS		185.7	1.27	a_e mb	6.2
GTTG	84.19		PP	18:46:14.642						T__				m_e	
HLG	83.02		P	18:42:49.970	-0.1	42.6		4.94		TAS				m_e	
IBBN	84.51		P	18:42:57.320	-0.5	42.6		4.94		TAS		209.1	0.62	a_e mb	6.5
KAST	85.08		P	18:43:00.320	-0.0	42.6		4.94		TAS		125.1	1.36	a_e mb	6.0
MANZ	84.42		P	18:42:57.170	-0.6	42.6		4.94		TAS		14.8	0.62	a_e mb	5.4
MOX	84.15		P	18:42:55.770	0.0	42.6		4.94		TAS		42.6	0.73	a_e mb	5.8
NEUB	83.68		P	18:42:53.320	0.1	42.6		4.94		TAS		157.1	0.93	a_e mb	6.2
NRDL	83.42		P	18:42:52.020	0.0	42.6		4.94		TAS		55.8	0.89	a_e mb	5.8
RETH	83.54		P	18:42:52.570	-0.0	42.6		4.94		TAS		72.1	0.80	a_e mb	6.0
RJOB	85.74		P	18:43:03.620		42.6		4.94		TAS		62.9	1.33	a_e mb	5.6
RJOB	85.74		pP	18:44:30.500						T__				m_e	
ROTZ	84.53		P	18:42:56.970	0.4	42.6		4.94		TAS		17.3	0.68	a_e mb	5.4
RUE	81.89		P	18:42:44.520	-0.1	42.6		4.94		TAS		303.3	1.43	a_e mb	6.2
RUE	81.89		pP	18:44:10.501						T__				m_e	
STU	86.60		P	18:43:07.620	-0.6	42.6		4.94		TAS		190.2	1.27	a_e mb	6.1
TANN	83.95		P	18:42:54.720	0.2	42.6		4.94		TAS		36.4	0.94	a_e mb	5.6
TANN	83.95		pP	18:44:21.007						T__				m_e	

./bul1907.txt

Wed Jul 21 10:35:31 2021

46

TNS	85.82	P	18:43:04.120	0.2	42.6	4.94	TAS	22.9	0.63	a_e	mb	5.5
UBBA	84.71	P	18:42:58.570	0.1	42.6	4.94	TAS	87.2	1.52	a_e	mb	5.8
WET	84.69	P	18:42:58.570	-0.2	42.6	4.94	TAS	89.9	1.59	a_e	mb	5.8
WET	84.69	pP	18:44:24.549				T__				m_e	
WLF	87.19	P	18:43:11.070	0.6	42.6	4.94	TAS	287.0	1.95	a_e	mb	6.1
WLF	87.19	pP	18:44:37.775				T__				m_e	

Event 90727008 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/27	22:00:42.70			-16.7000	-179.5900				525.0			25		142.77	147.79	m i ke	EMSC
90727040																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	143.73		PKPbc	22:19:16.624	0.3	18.7		3.18		TAS				a_e	
BFO	147.79		PKPbc	22:19:28.724		18.7		3.18		TAS				a_e	
BRG	144.22		PKPbc	22:19:18.674	0.3	18.7		3.18		TAS				a_e	
BUG	144.91		PKPbc	22:19:20.374	0.3	18.7		3.18		TAS				a_e	
CLL	144.04		PKPbc	22:19:17.624	0.1	18.7		3.18		TAS				a_e	
CLZ	144.06		PKPbc	22:19:18.130	-0.2	18.7		3.18		TAS				m_e	
FLT1	143.43		PKPbc	22:19:15.074	-0.1	18.7		3.18		TAS				a_e	
FUR	147.38		PKPbc	22:19:27.885		18.7		3.18		TAS				m_e	
GEC2	146.15		PKPbc	22:19:24.474		18.7		3.18		TAS				m_e	
GRA1	145.94		PKPbc	22:19:24.200	-0.4	18.7		3.18		TAS				m_e	
GTTG	144.41		PKPbc	22:19:19.124	0.5	18.7		3.18		TAS				a_e	
IBBN	144.00		PKPbc	22:19:17.742	0.1	18.7		3.18		TAS				m_e	
KAST	144.99		PKPbc	22:19:20.824	-0.8	18.7		3.18		TAS				a_e	
MANZ	145.48		PKPbc	22:19:22.524	-0.1	18.7		3.18		TAS				a_e	
MOX	144.96		PKPbc	22:19:20.815	0.1	18.7		3.18		TAS				m_e	
NEUB	144.41		PKPbc	22:19:18.924	0.0	18.7		3.18		TAS				a_e	
NRDL	143.47		PKPbc	22:19:15.276	0.3	18.7		3.18		TAS				m_e	
ROTZ	145.66		PKPbc	22:19:22.074	0.1	18.7		3.18		TAS				a_e	
RUE	142.77		PKPbc	22:19:13.224	0.1	18.7		3.18		TAS				a_e	
STU	147.22		PKPbc	22:19:28.224		18.7		3.18		TAS				a_e	
TANN	145.00		PKPbc	22:19:21.174	0.5	18.7		3.18		TAS				a_e	
TNS	145.94		PKPbc	22:19:23.804	0.5	18.7		3.18		TAS				m_e	
UBBA	145.10		PKPbc	22:19:21.021	0.1	18.7		3.18		TAS				m_e	
WET	146.09		PKPbc	22:19:24.374	-0.8	18.7		3.18		TAS				a_e	
WLF	146.79		PKPbc	22:19:26.674		18.7		3.18		TAS				a_e	

Event 90729004 Panama

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/29	04:43:37.76			8.9620	-81.2630				34.4	1.1		14		81.57	86.58	m i ke	BGR
OrigID 90729010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90729010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	86.39		P	04:56:20.549		277.7		5.03		TAS		5.8	0.81	m_e	mb	4.8
BRG	86.39		pP	04:56:30.348						T__				m_e		
BSEG	83.76		pP	04:56:16.935						T__				m_e		
CLL	85.74		P	04:56:16.609		277.7		5.03		TAS		7.4	0.86	m_e	mb	4.8
CLZ	84.04		P	04:56:08.026	-0.1	277.7		5.03		TAS		7.9	0.86	m_e	mb	5.0
FLT1	84.51		P	04:56:10.364		277.7		5.03		TAS		5.9	0.71	m_e	mb	4.9
GEC2	86.58		P	04:56:21.012		277.7		5.03		TAS		13.0	1.21	m_e	mb	4.9
IBBN	82.38		P	04:55:59.943	0.4	277.7		5.03		TAS		10.3	0.95	m_e	mb	4.9
KAST	82.89		P	04:56:02.579	-0.3	277.7		5.03		TAS		3.1	0.86	m_e	mb	4.6
MANZ	85.37		P	04:56:15.223		277.7		5.03		TAS		0.9	0.98	m_e	mb	3.9
MOX	84.97		P	04:56:13.092		277.7		5.03		TAS		3.4	0.98	m_e	mb	4.5
MOX	84.97		pP	04:56:22.775						T__				m_e		
NRDL	83.80		P	04:56:07.470	-0.2	277.7		5.03		TAS		7.3	0.96	m_e	mb	4.9
ROTZ	85.47		P	04:56:14.282		277.7		5.03		TAS		0.5	0.79	m_e	mb	3.8
ROTZ	85.47		pP	04:56:24.548						T__				m_e		
TANN	85.53		P	04:56:16.132		277.7		5.03		TAS		6.7	0.95	m_e	mb	4.8
WET	85.99		P	04:56:18.762		277.7		5.03		TAS		9.1	0.89	m_e	mb	4.9
WET	85.99		pP	04:56:29.056						T__				m_e		
WLF	81.57		P	04:55:55.988	0.1	277.7		5.03		TAS		8.0	0.83	m_e	mb	4.9

Event 90729005 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/29	20:37:44.35			33.0800	141.1000				70.2	2.6		28		81.85	88.62	m i ke	BGR
OrigID 90729011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90729011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	84.72		P	20:50:10.580	0.1	40.3		4.98		TAS		48.1	1.10	a_e	mb	5.6
BFO	88.62		P	20:50:29.230		40.3		4.98		TAS		30.6	0.72	a_e	mb	5.6
BFO	88.62		PP	20:53:57.856						T__				m_e		
BRG	84.32		P	20:50:08.780	-0.5	40.3		4.98		TAS		60.6	0.73	a_e	mb	5.9
BSEG	83.46		P	20:50:04.230	-0.1	40.3		4.98		TAS		64.9	1.00	a_e	mb	5.8
BSEG	83.46		pP	20:50:23.103	0.1					T__				m_e		
BUG	86.57		P	20:50:19.480	0.0	40.3		4.98		TAS		88.8	0.96	a_e	mb	5.9

BUG	86.57	pP	20:50:39.093							T__							m_e	
CLL	84.39	P	20:50:08.730	0.1	40.3		4.98			TAS	156.8	0.87	a_e	mb			6.3	
CLZ	85.06	P	20:50:12.630	0.2	40.3		4.98			TAS	113.7	0.98	a_e	mb			6.1	
CLZ	85.06	pP	20:50:32.013	0.1						T__							m_e	
FLT1	84.34	P	20:50:08.180	-0.2	40.3		4.98			TAS	91.9	0.77	a_e	mb			6.1	
FUR	87.51	P	20:50:24.630	0.3	40.3		4.98			TAS	69.5	1.11	a_e	mb			5.9	
GEC2	85.93	P	20:50:16.430	0.0	40.3		4.98			TAS	37.1	0.86	m_e	mb			5.5	
GOR1	83.81	P	20:50:06.330	0.3	40.3		4.98			TAS	96.2	1.23	a_e	mb			5.9	
GOR1	83.81	pP	20:50:25.641	0.1						T__							m_e	
GRA1	86.36	P	20:50:19.280	-0.3	40.3		4.98			TAS	121.2	1.09	a_e	mb			6.0	
GRA1	86.36	pP	20:50:38.798							T__							m_e	
GTTG	85.45	P	20:50:14.330	0.1	40.3		4.98			TAS	93.0	0.83	a_e	mb			6.0	
GTTG	85.45	PP	20:53:34.580							T__							m_e	
IBBN	85.70	P	20:50:15.480	0.2	40.3		4.98			TAS	155.1	0.68	a_e	mb			6.3	
KAST	86.32	P	20:50:18.530	0.6	40.3		4.98			TAS	78.0	1.03	a_e	mb			5.8	
MANZ	85.76	P	20:50:15.980	-1.4	40.3		4.98			TAS	12.6	0.82	a_e	mb			5.1	
MOX	85.47	P	20:50:14.380	0.1	40.3		4.98			TAS	75.8	1.18	a_e	mb			5.8	
NRDL	84.66	P	20:50:10.280	0.1	40.3		4.98			TAS	35.6	0.91	a_e	mb			5.6	
NRDL	84.66	PP	20:53:25.443							T__							m_e	
RETH	84.76	P	20:50:10.830	0.4	40.3		4.98			TAS	57.4	0.95	a_e	mb			5.8	
RGN	81.85	P	20:49:55.980	-0.2	40.3		4.98			TAS	91.9	0.97	a_e	mb			5.9	
RJOB	87.16	P	20:50:22.830	0.2	40.3		4.98			TAS	40.8	0.95	a_e	mb			5.5	
RJOB	87.16	pP	20:50:41.954	0.1						T__							m_e	
ROTZ	85.89	P	20:50:14.930	-0.1	40.3		4.98			TAS	14.9	0.93	a_e	mb			5.1	
ROTZ	85.89	pP	20:50:33.819	0.1						T__							m_e	
RUE	83.20	P	20:50:03.030	0.1	40.3		4.98			TAS	90.6	1.04	a_e	mb			5.9	
STU	87.92	P	20:50:26.805	0.1	40.3		4.98			TAS	91.1	0.78	m_e	mb			6.2	
STU	87.92	pP	20:50:45.403	0.1						T__							m_e	
TNS	87.08	P	20:50:22.330	0.1	40.3		4.98			TAS	37.4	1.14	a_e	mb			5.4	
UBBA	85.99	P	20:50:16.930	0.3	40.3		4.98			TAS	26.0	0.70	a_e	mb			5.5	
UBBA	85.99	pP	20:50:36.188	0.1						T__							m_e	
WET	86.07	P	20:50:17.530	0.0	40.3		4.98			TAS	28.1	1.01	a_e	mb			5.3	
WET	86.07	pP	20:50:37.121	0.1						T__							m_e	
WLF	88.42	P	20:50:29.130	-0.7	40.3		4.98			TAS	75.9	1.43	a_e	mb			5.8	
WLF	88.42	pP	20:50:48.601	0.1						T__							m_e	

Event 90730004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/30	01:21:25.17			-21.7120	-178.3020				613.9	2.3		14		147.17	152.91	m i ke	BGR
	90730010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.91		PKPbc	01:40:14.404		18.5		2.36		TAS					m_e



./bul1907.txt

Wed Jul 21 10:35:31 2021

49

BFO	152.91	PKPab	01:40:26.644		18.5	2.36	TAS	m_e
BRG	149.35	PKPbc	01:40:06.324	0.1	18.5	2.36	TAS	m_e
BRG	149.35	pPKPbc	01:42:26.960				T__	m_e
BSEG	147.17	PKPbc	01:40:00.582	0.5	18.5	2.36	TAS	m_e
BUG	150.01	PKPbc	01:40:07.853		18.5	2.36	TAS	m_e
CLL	149.17	PKPbc	01:40:05.559	0.1	18.5	2.36	TAS	m_e
CLL	149.17	pPKPbc	01:42:25.606				T__	m_e
CLZ	149.18	PKPbc	01:40:05.986	-0.4	18.5	2.36	TAS	m_e
FLT1	148.56	PKPbc	01:40:03.898	0.2	18.5	2.36	TAS	m_e
FLT1	148.56	pPKPbc	01:42:23.799				T__	m_e
FUR	152.51	PKPbc	01:40:13.667		18.5	2.36	TAS	m_e
FUR	152.51	PKPab	01:40:25.415		18.5	2.36	TAS	m_e
GEC2	151.28	PKPbc	01:40:10.888		18.5	2.36	TAS	m_e
GOR1	147.91	PKPbc	01:40:03.292	0.2	18.5	2.36	TAS	m_e
GTTG	149.53	PKPbc	01:40:06.550		18.5	2.36	TAS	m_e
IBBN	149.10	pPKPbc	01:42:28.147				T__	m_e
KAST	150.10	PKPbc	01:40:08.083		18.5	2.36	TAS	m_e
MANZ	150.61	PKPbc	01:40:09.373		18.5	2.36	TAS	m_e
MOX	150.09	PKPbc	01:40:08.131		18.5	2.36	TAS	m_e
RJOB	152.54	PKPbc	01:40:13.369		18.5	2.36	TAS	m_e
TNS	151.05	PKPbc	01:40:10.559		18.5	2.36	TAS	m_e
WLF	151.88	PKPbc	01:40:12.935		18.5	2.36	TAS	m_e

Event 90731002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/31	01:36:01.36			-20.6180	170.2940				126.1	11.4		25		143.36	148.77	m i k e	BGR
90731008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	144.78		PKPbc	01:55:21.649	0.8	37.3		3.04		TAS					m_e
BFO	148.77		PKPbc	01:55:33.101		37.3		3.04		TAS					m_e
BRG	144.54		PKPbc	01:55:21.100	0.1	37.3		3.04		TAS					a_e
BSEG	143.39		PKPbc	01:55:16.800	-0.3	37.3		3.04		TAS					a_e
BUG	146.49		PKPbc	01:55:26.502	-0.3	37.3		3.04		TAS					m_e
CLL	144.58		PKPbc	01:55:20.869	-0.2	37.3		3.04		TAS					m_e
CLZ	145.12		PKPbc	01:55:23.200	0.1	37.3		3.04		TAS					m_e
FLT1	144.42		PKPbc	01:55:20.100	-0.1	37.3		3.04		TAS					a_e
FUR	147.74		PKPbc	01:55:30.120		37.3		3.04		TAS					m_e
FUR	147.74		pPKPbc	01:56:06.295	0.2					T__					m_e
GEC2	146.17		PKPbc	01:55:26.150	0.6	37.3		3.04		TAS					a_e
GEC2	146.17		pPKPbc	01:55:58.466	0.2					T__					m_e
GRA1	146.55		PKPbc	01:55:27.423	-0.5	37.3		3.04		TAS					m_e
GTTG	145.51		PKPbc	01:55:24.500	0.4	37.3		3.04		TAS					a_e

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Wed Jul 21 10:35:31 2021

50

IBBN	145.58	PKPbc	01:55:24.400	0.3	37.3	3.04	TAS	a_e
KAST	146.32	PKPbc	01:55:26.308	0.3	37.3	3.04	TAS	m_e
KAST	146.32	pPKPbc	01:55:58.987	0.2			T__	m_e
MANZ	145.97	PKPbc	01:55:25.473	0.4	37.3	3.04	TAS	m_e
MOX	145.64	PKPbc	01:55:24.445	-1.8	37.3	3.04	TAS	m_e
MOX	145.64	pPKPbc	01:55:57.624	0.2			T__	m_e
NRDL	144.67	PKPbc	01:55:21.191	0.6	37.3	3.04	TAS	m_e
RETH	144.71	PKPbc	01:55:21.311	0.4	37.3	3.04	TAS	m_e
RJOB	147.40	PKPbc	01:55:29.089	-0.5	37.3	3.04	TAS	m_e
ROTZ	146.10	PKPbc	01:55:23.612	0.5	37.3	3.04	TAS	m_e
ROTZ	146.10	pPKPbc	01:55:57.121	0.2			T__	m_e
RUE	143.36	PKPbc	01:55:16.750	-0.7	37.3	3.04	TAS	a_e
TNS	147.15	PKPbc	01:55:29.054	0.2	37.3	3.04	TAS	m_e
UBBA	146.10	PKPbc	01:55:25.775	-0.0	37.3	3.04	TAS	m_e
WET	146.30	PKPbc	01:55:26.554	-0.5	37.3	3.04	TAS	m_e
WET	146.30	pPKPbc	01:55:59.636	0.2			T__	m_e
WLF	148.39	PKPbc	01:55:32.900		37.3	3.04	TAS	a_e
WLF	148.39	pPKPbc	01:56:05.880	0.2			T__	m_e

Event 90731004 Crete, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/31	04:40:08.64	1.83	1.14	35.6630	24.7580	42.3	25.6	145	80.0			50	335	13.28	20.87	m i ke	BGR
90731010																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	13.48		P	04:43:11.948	-2.7					T__					m_e
BALST	17.26		P	04:44:03.187	0.5					T__					m_e
BE1	15.83		P	04:43:44.887	-0.2					T__					m_e
BERGE	17.33		P	04:44:03.610	0.1					T__					m_e
BFO	17.54		P	04:44:06.612	0.6					T__					m_e
BRG	17.09		P	04:44:01.896	1.3					T__					m_e
BSEG	20.87		P	04:44:41.997	-1.5					T__					m_e
BUG	20.15		P	04:44:35.682	-0.1					T__					m_e
CKRC	15.23		P	04:43:39.132	1.7					T__					m_e
CLL	17.78		P	04:44:08.974	0.2					T__					m_e
DAVA	16.07		P	04:43:48.682	0.7					T__					m_e
DPC	15.89		P	04:43:46.120	0.4					T__					m_e
ECH	18.08		P	04:44:12.862	0.5					T__					m_e
EMING	16.99		P	04:43:59.538	0.1					T__					m_e
FLT1	19.24		P	04:44:24.612	-1.1					T__					m_e
FUR	15.99		P	04:43:49.987	3.0					T__					m_e
GEC2	15.49		P	04:43:41.283	0.7					T__					m_e
GOR1	19.76		P	04:44:30.249	-1.2					T__					m_e

GRA1	17.15	P	04:44:01.807	0.5	T__	m_e
GRFO	17.15	P	04:44:01.670	0.3	T__	m_e
IBBN	20.57	P	04:44:39.986	-0.3	T__	m_e
KAST	19.48	P	04:44:28.237	-0.2	T__	m_e
KBA	14.25	P	04:43:23.258	-1.5	T__	m_e
KHC	15.76	P	04:43:44.953	0.8	T__	m_e
KRUC	14.73	P	04:43:32.252	1.2	T__	m_e
MANZ	17.02	P	04:44:00.213	0.5	T__	m_e
METMA	17.19	P	04:44:02.050	0.3	T__	m_e
MILB	18.10	P	04:44:13.198	0.6	T__	m_e
MOA	14.46	P	04:43:25.935	-1.5	T__	m_e
MORC	15.06	P	04:43:35.632	0.5	T__	m_e
NRDL	19.78	P	04:44:31.113	-0.7	T__	m_e
OBKA	13.28	P	04:43:08.432	-3.6	T__	m_e
OKC	14.97	P	04:43:35.924	1.9	T__	m_e
PART	15.59	P	04:43:42.121	0.1	T__	m_e
PLONS	16.17	P	04:43:50.291	1.0	T__	m_e
PRU	16.14	P	04:43:49.130	0.3	T__	m_e
RETH	20.25	P	04:44:36.316	-0.6	T__	m_e
RJOB	14.99	P	04:43:32.227	-2.1	T__	m_e
ROTZ	16.81	P	04:43:55.008	-2.1	T__	m_e
SLE	17.09	P	04:44:00.630	-0.0	T__	m_e
SULZ	17.15	P	04:44:01.717	0.4	T__	m_e
TNS	18.76	P	04:44:20.490	0.2	T__	m_e
UBBA	18.52	P	04:44:18.033	0.5	T__	m_e
VRAC	14.89	P	04:43:33.607	0.6	T__	m_e
WALHA	16.76	P	04:43:56.628	0.1	T__	m_e
WET	16.05	P	04:43:47.879	0.1	T__	m_e
WILA	16.66	P	04:43:55.798	0.5	T__	m_e
WLF	19.50	P	04:44:28.831	0.2	T__	m_e
WTTA	15.18	P	04:43:36.271	-0.4	T__	m_e
ZUGS	15.60	P	04:43:41.771	-0.3	T__	m_e

Event 90731007 Guatemala

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/31	05:54:51.78			14.0600	-91.5900				100.5	4.5		22		84.35	89.30	m i ke	BGR
OrigID 90731013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90731013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	86.39		P	06:07:23.006	0.4	285.3		5.06		TAS		18.9	1.03	m_e	mb 5.2
ASSE	86.39		pP	06:07:49.418						T__				m_e	
BFO	86.09		P	06:07:19.888	0.2	285.3		5.06		TAS		21.7	1.10	m_e	mb 5.2

BFO	86.09	PP	06:10:44.679							T__						m_e	
BRG	88.73	P	06:07:34.708		285.3		5.06			TAS	7.9	0.74	m_e	mb		5.0	
BRG	88.73	PP	06:11:03.263							T__						m_e	
BSEG	85.62	P	06:07:19.617	0.1	285.3		5.06			TAS	21.7	0.99	m_e	mb		5.2	
BSEG	85.62	pP	06:07:45.836							T__						m_e	
BUG	84.56	P	06:07:13.422	-0.1	285.3		5.06			TAS	55.0	1.26	m_e	mb		5.6	
BUG	84.56	pP	06:07:36.657							T__						m_e	
CLL	88.03	P	06:07:31.003		285.3		5.06			TAS	16.9	0.71	m_e	mb		5.5	
CLL	88.03	pP	06:07:55.557							T__						m_e	
CLZ	86.30	P	06:07:22.794	0.0	285.3		5.06			TAS	12.0	0.80	m_e	mb		5.1	
CLZ	86.30	pP	06:07:46.924							T__						m_e	
FLT1	86.65	P	06:07:24.036	-0.2	285.3		5.06			TAS	27.8	0.92	m_e	mb		5.4	
GEC2	89.30	P	06:07:36.778		285.3		5.06			TAS	13.8	0.94	m_e	mb		5.2	
GEC2	89.30	pP	06:08:02.463							T__						m_e	
GRA1	87.49	P	06:07:28.321	-0.1	285.3		5.06			TAS	13.8	0.79	m_e	mb		5.1	
GTTG	86.15	P	06:07:21.802	-0.3	285.3		5.06			TAS	11.6	0.82	m_e	mb		5.0	
GTTG	86.15	pP	06:07:48.082							T__						m_e	
GTTG	86.15	PP	06:10:41.837							T__						m_e	
IBBN	84.62	P	06:07:13.845	-0.1	285.3		5.06			TAS	20.2	0.95	m_e	mb		5.3	
IBBN	84.62	pP	06:07:39.887							T__						m_e	
IBBN	84.62	PP	06:10:29.361							T__						m_e	
KAST	85.32	P	06:07:17.114	0.1	285.3		5.06			TAS	9.2	0.84	m_e	mb		5.0	
MANZ	87.94	P	06:07:30.459		285.3		5.06			TAS	2.3	0.76	m_e	mb		4.6	
MOX	87.42	P	06:07:27.856	0.0	285.3		5.06			TAS	13.7	1.01	m_e	mb		5.0	
MOX	87.42	pP	06:07:53.551							T__						m_e	
NRDL	85.94	P	06:07:20.988	0.3	285.3		5.06			TAS	18.9	1.00	m_e	mb		5.2	
NRDL	85.94	pP	06:07:48.190							T__						m_e	
RJOB	89.12	P	06:07:35.621		285.3		5.06			TAS	11.5	0.75	m_e	mb		5.2	
RJOB	89.12	pP	06:08:02.549							T__						m_e	
ROTZ	88.07	pP	06:07:54.522							T__						m_e	
ROTZ	88.07	PP	06:10:55.065							T__						m_e	
TNS	85.62	P	06:07:18.570	-0.4	285.3		5.06			TAS	19.2	0.92	m_e	mb		5.2	
UBBA	86.39	P	06:07:22.315	-0.0	285.3		5.06			TAS	4.4	0.75	m_e	mb		4.7	
WET	88.69	P	06:07:34.163		285.3		5.06			TAS	28.2	0.99	m_e	mb		5.5	
WET	88.69	pP	06:08:00.500							T__						m_e	
WLF	84.35	P	06:07:11.970	0.2	285.3		5.06			TAS	29.6	0.99	m_e	mb		5.5	
WLF	84.35	pP	06:07:37.652							T__						m_e	

Event 90731011 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/31	15:02:22.34			-19.2390	172.2980				193.7	2.2		26		142.84	148.21	m i ke	BGR
	90731017																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	144.16		PKPbc	15:21:30.941	-1.6	33.2		3.36		TAS				a_e	
ASSE	144.16		SKPbc	15:24:57.912		32.8		2.71		TAS				m_e	
BFO	148.21		PKPbc	15:21:44.709		33.2		3.36		TAS				m_e	
BRG	144.08		PKPbc	15:21:30.967	-1.1	33.2		3.36		TAS				m_e	
BRG	144.08		SKPbc	15:24:57.272		32.8		2.71		TAS				m_e	
BUG	145.76		PKPbc	15:21:37.177	0.0	33.2		3.36		TAS				m_e	
CLL	144.07		PKPbc	15:21:30.291	-0.8	33.2		3.36		TAS				a_e	
CLL	144.07		SKPbc	15:24:57.929		32.8		2.71		TAS				m_e	
CLZ	144.50		PKPbc	15:21:31.791	0.2	33.2		3.36		TAS				a_e	
FLT1	143.81		PKPbc	15:21:29.611	-0.6	33.2		3.36		TAS				m_e	
FLT1	143.81		SKPbc	15:24:57.521		32.8		2.71		TAS				m_e	
FUR	147.30		PKPbc	15:21:42.214	1.0	33.2		3.36		TAS				m_e	
GEC2	145.79		PKPbc	15:21:36.791	0.4	33.2		3.36		TAS				m_e	
GEC2	145.79		SKPbc	15:25:01.751		32.8		2.71		TAS				m_e	
GOR1	143.22		PKPbc	15:21:29.935	-0.0	33.2		3.36		TAS				m_e	
GOR1	143.22		SKPbc	15:24:55.536		32.8		2.71		TAS				m_e	
GRA1	146.05		PKPbc	15:21:38.364	-0.5	33.2		3.36		TAS				m_e	
GTTG	144.89		PKPbc	15:21:34.291	0.3	33.2		3.36		TAS				a_e	
GTTG	144.89		SKPbc	15:25:00.756		32.8		2.71		TAS				m_e	
HLG	143.12		pPKPbc	15:22:22.951	-0.5					T__				m_e	
HLG	143.12		SKPbc	15:24:54.970		32.8		2.71		TAS				m_e	
IBBN	144.85		PKPbc	15:21:32.768	-0.0	33.2		3.36		TAS				m_e	
IBBN	144.85		SKPbc	15:24:58.243		32.8		2.71		TAS				m_e	
KAST	145.66		PKPbc	15:21:37.442	-0.4	33.2		3.36		TAS				m_e	
KAST	145.66		SKPbc	15:25:02.580		32.8		2.71		TAS				m_e	
MANZ	145.48		PKPbc	15:21:36.370	-0.1	33.2		3.36		TAS				m_e	
MANZ	145.48		SKPbc	15:25:01.428		32.8		2.71		TAS				m_e	
MOX	145.11		PKPbc	15:21:34.754	0.4	33.2		3.36		TAS				m_e	
MOX	145.11		pPKPbc	15:22:23.759	-0.5					T__				m_e	
NRDL	144.02		PKPbc	15:21:31.246	-1.0	33.2		3.36		TAS				m_e	
RETH	144.02		PKPbc	15:21:30.841	-0.4	33.2		3.36		TAS				a_e	
RJOB	147.04		PKPbc	15:21:40.944	0.5	33.2		3.36		TAS				m_e	
ROTZ	145.63		PKPbc	15:21:36.442	-0.2	33.2		3.36		TAS				m_e	
ROTZ	145.63		SKPbc	15:25:01.610		32.8		2.71		TAS				m_e	
RUE	142.84		PKPbc	15:21:29.391	1.4	33.2		3.36		TAS				m_e	
RUE	142.84		SKPbc	15:24:54.980		32.8		2.71		TAS				m_e	
STU	147.53		PKPbc	15:21:43.469	-0.5	33.2		3.36		TAS				m_e	
TNS	146.51		PKPbc	15:21:40.447	0.0	33.2		3.36		TAS				m_e	
TNS	146.51		SKPbc	15:25:05.055		32.8		2.71		TAS				m_e	
UBBA	145.50		PKPbc	15:21:36.603	0.6	33.2		3.36		TAS				m_e	
WET	145.88		PKPbc	15:21:37.471	0.8	33.2		3.36		TAS				m_e	
WET	145.88		pPKPbc	15:22:27.506	-0.5					T__				m_e	
WET	145.88		SKPbc	15:25:02.143		32.8		2.71		TAS				m_e	
WLF	147.68		PKPbc	15:21:44.731		33.2		3.36		TAS				m_e	
WLF	147.68		SKPbc	15:25:07.988		32.8		2.71		TAS				m_e	

Event 90731012 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/07/31	20:20:47.82			32.5500	47.0700				10.0			13		29.78	34.74	m i ke	BGR
OrigID 90731018																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	90731018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	33.03		P	20:27:23.960		111.0		8.66		TAS		2.4	0.90	m_e mb	4.1
CLL	31.13		P	20:27:06.543		111.0		8.66		TAS		3.5	0.84	m_e mb	4.3
CLZ	32.85		P	20:27:21.985	0.9	111.0		8.66		TAS		3.8	0.75	m_e mb	4.4
FUR	31.09		P	20:27:06.936		111.0		8.66		TAS		21.4	0.81	m_e mb	5.1
GEC2	29.78		P	20:26:54.105		111.0		8.66		TAS		1.3	0.76	m_e mb	3.8
GRA1	31.60		P	20:27:11.086		111.0		8.66		TAS		11.7	0.99	m_e mb	4.8
IBBN	34.53		P	20:27:37.354	-0.8	111.0		8.66		TAS		6.4	0.81	m_e mb	4.6
KAST	33.78		P	20:27:29.649		111.0		8.66		TAS		7.4	1.04	m_e mb	4.5
NRDL	33.25		P	20:27:25.532		111.0		8.66		TAS		4.1	0.79	m_e mb	4.4
RJOB	29.98		P	20:26:57.254		111.0		8.66		TAS		3.9	0.86	m_e mb	4.3
TNS	33.46		P	20:27:27.226		111.0		8.66		TAS		9.1	1.17	m_e mb	4.6
WET	30.39		P	20:26:59.685		111.0		8.66		TAS		3.6	0.92	m_e mb	4.2
WLF	34.74		P	20:27:36.948		111.0		8.66		TAS		5.1	0.81	m_e mb	4.5