

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

(produced by SZO/BGR - HANNOVER)

October 2018

UPDATED 12.June 2020

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

Event 81001003 Mexico-Guatemala border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/01	21:42:49.98			15.2650	-92.8990				33.0				15				m i ke BGR
OrigID																	
81001009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	81001009
Ms	4.3		BGR	81001009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO			P	21:55:26.828		290.5		4.82		TAS		19.6	0.97	m_e mb	5.2
BRG			P	21:55:38.991	0.2	290.5		4.82		TAS		11.2	0.76	m_e mb	5.2
BSEG			P	21:55:23.778	-0.3	290.5		4.82		TAS		72.8	1.02	m_e mb	5.8
CLZ			P	21:55:27.905	0.2	290.5		4.82		TAS		121.2	1.77	m_e mb	5.7
GEC2			P	21:55:42.363		290.5		4.82		TAS		10.9	0.87	m_e mb	5.1
GRA1			L	22:33:25.261						T__		189.3	20.20	a_e Ms	4.5
GTTG			P	21:55:27.180	-0.2	290.5		4.82		TAS		32.3	0.71	m_e mb	5.6
KAST			P	21:55:22.846	-0.1	290.5		4.82		TAS		154.5	2.23	m_e mb	5.8
MOX			L	22:35:47.798						T__		93.6	22.00	a_e Ms	4.2
NRDL			P	21:55:25.833	0.0	290.5		4.82		TAS		29.2	0.92	m_e mb	5.4
RETH			P	21:55:23.554	0.2	290.5		4.82		TAS		79.7	1.25	m_e mb	5.8
ROTZ			P	21:55:36.435		290.5		4.82		TAS		10.2	1.78	m_e mb	4.9
STU			P	21:55:29.281		290.5		4.82		TAS		102.9	0.71	m_e mb	6.1
TANN			P	21:55:35.883	-0.1	290.5		4.82		TAS		68.1	1.99	m_e mb	5.6
TNS			P	21:55:24.866	0.2	290.5		4.82		TAS		62.5	0.72	m_e mb	5.9
WET			P	21:55:39.773		290.5		4.82		TAS		14.9	0.70	m_e mb	5.3
WLF			P	21:55:18.512		290.5		4.82		TAS		45.8	0.71	m_e mb	5.8

Event 81002002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/02	10:08:38.16			-17.7800	167.8500				80.0				6	142.12	145.26	m i ke	EMSC
OrigID 81002038																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.1		BGR	81002008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	145.26		PKPbc	10:28:15.120		38.9		3.14		TAS				m_e	
GRA1	143.02		L	11:34:31.904						T__		991.6	19.80	a_e Ms	5.6
MOX	142.12		L	11:06:38.358						T__		125.7	20.80	a_e Ms	4.7
RJOB	143.81		PKPbc	10:28:10.991		38.9		3.14		TAS				m_e	
STU	144.56		PKPbc	10:28:13.125		38.9		3.14		TAS				m_e	
TNS	143.66		PKPbc	10:28:09.972		38.9		3.14		TAS				m_e	
UBR	145.05		PKPbc	10:28:14.175		38.9		3.14		TAS				m_e	
WLF	144.94		PKPbc	10:28:14.647		38.9		3.14		TAS				m_e	

Event 81004001 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/04	03:41:40.88			56.7670	164.2880				33.0				17	69.59	73.72	m i ke	BGR
OrigID 81004007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81004007
Ms	4.3		BGR	81004007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	73.38		P	03:53:07.193		15.2		6.05		TAS		10.9	0.92	m_e mb	5.0
BRG	69.96		P	03:52:46.479	0.4	15.2		6.05		TAS		7.2	1.01	m_e mb	4.8
BUG	70.50		P	03:52:50.028	-0.0	15.2		6.05		TAS		19.3	0.99	m_e mb	5.2
CLL	69.72		P	03:52:44.886	-0.1	15.2		6.05		TAS		23.4	1.27	m_e mb	5.2
CLZ	69.64		P	03:52:45.320	-0.1	15.2		6.05		TAS		22.2	1.11	m_e mb	5.2
GEC2	71.95		P	03:52:58.948		15.2		6.05		TAS		17.3	1.24	m_e mb	5.0
GRA1	71.58		P	03:52:57.126		15.2		6.05		TAS		34.1	1.26	m_e mb	5.3
GRA1	71.58		L	04:29:58.240						T__		168.4	18.50	a_e Ms	4.3
IBBN	69.59		P	03:52:44.741	-0.5	15.2		6.05		TAS		18.7	0.81	m_e mb	5.3
MANZ	71.14		P	03:52:54.011		15.2		6.05		TAS		3.2	1.12	m_e mb	4.4
MOX	70.59		P	03:52:50.680	0.0	15.2		6.05		TAS		9.3	0.93	m_e mb	4.9
MOX	70.59		L	04:29:11.049						T__		141.4	19.70	a_e Ms	4.2
PLN	70.65		P	03:52:51.042	-0.4	15.2		6.05		TAS		11.0	1.05	m_e mb	4.9
RJOB	73.19		P	03:53:06.686		15.2		6.05		TAS		15.7	0.84	m_e mb	5.2
ROTZ	71.34		P	03:52:55.460		15.2		6.05		TAS		3.9	1.10	m_e mb	4.4

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TANN	70.67	P	03:52:51.404	0.3	15.2	6.05	TAS	14.0	1.26	m_e	mb	5.0
TNS	71.52	P	03:52:56.257	-0.3	15.2	6.05	TAS	8.2	0.85	m_e	mb	4.9
UBR	73.72	P	03:53:09.366		15.2	6.05	TAS	21.9	1.17	m_e	mb	5.1
WET	71.82	P	03:52:58.647		15.2	6.05	TAS	24.8	1.24	m_e	mb	5.2

Event 81004002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/04	04:15:17.21			-17.8700	-178.5300				584.0			25		144.12	149.44	m i ke	EMSC
81004038																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.11		PKPbc	04:35:03.650		16.8		2.76		TAS					m_e
BRG	145.60		PKPbc	04:34:54.609	0.3	16.8		2.76		TAS					m_e
CLL	145.40		PKPbc	04:34:53.780	0.1	16.8		2.76		TAS					m_e
CLZ	145.38		PKPbc	04:34:54.010	-0.1	16.8		2.76		TAS					m_e
FLT1	144.76		PKPbc	04:34:51.569	0.2	16.8		2.76		TAS					m_e
FUR	148.74		PKPbc	04:35:02.943		16.8		2.76		TAS					m_e
GEC2	147.55		PKPbc	04:34:59.904	-0.5	16.8		2.76		TAS					m_e
GOR1	144.12		PKPbc	04:34:50.004	-0.3	16.8		2.76		TAS					m_e
GRA1	147.30		PKPbc	04:34:59.444	-0.4	16.8		2.76		TAS					m_e
GRA1	147.30		L	04:52:03.494						T__		60.9	18.90		a_e
GTTG	145.73		PKPbc	04:34:54.931	0.1	16.8		2.76		TAS					m_e
MANZ	146.84		PKPbc	04:34:58.062	0.1	16.8		2.76		TAS					m_e
MOX	146.31		PKPbc	04:34:56.543	0.3	16.8		2.76		TAS					m_e
MOX	146.31		L	04:43:45.526						T__		92.9	19.50		a_e
NEUB	145.76		PKPbc	04:34:54.931	0.3	16.8		2.76		TAS					m_e
NRDL	144.79		PKPbc	04:34:52.076	-0.6	16.8		2.76		TAS					m_e
PLN	146.35		PKPbc	04:34:56.727	0.4	16.8		2.76		TAS					m_e
RETH	144.66		PKPbc	04:34:51.569	-0.1	16.8		2.76		TAS					m_e
RJOB	148.80		PKPbc	04:35:02.851		16.8		2.76		TAS					m_e
ROTZ	147.03		PKPbc	04:34:58.753	0.0	16.8		2.76		TAS					m_e
RUE	144.14		PKPbc	04:34:49.774	-0.5	16.8		2.76		TAS					m_e
STU	148.54		PKPbc	04:35:02.529	-0.5	16.8		2.76		TAS					m_e
TANN	146.36		PKPbc	04:34:56.819	0.2	16.8		2.76		TAS					m_e
TNS	147.24		PKPbc	04:34:59.167	0.4	16.8		2.76		TAS					m_e
UBR	149.44		PKPbc	04:35:04.463		16.8		2.76		TAS					m_e
WET	147.46		PKPbc	04:34:59.720	-0.1	16.8		2.76		TAS					m_e
WLF	148.06		PKPbc	04:35:01.700	0.0	16.8		2.76		TAS					m_e

Event 81005001 Hokkaido, Japan, region

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/04	23:58:43.06			41.9240	144.2140				33.0					79.88	79.88	m i ke	BGR
OrigID 81005007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81005007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.88		P	00:10:47.111		34.8		4.73		TAS		58.4	1.65	m_e mb	5.2

Event 81005002 Ascension Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/05	14:59:40.42			-5.7860	-12.7910				33.0					59.06	59.06	m i ke	BGR
OrigID 81005008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	81005008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude		
GRA1	59.06		P	15:09:39.078		209.3		7.42		TAS		10.6	1.28	m_e mb	4.7		
GRA1	59.06		PP	15:11:52.724						T__				m_e			

Event 81005003 North of Ascension Island

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/05	15:13:38.17			-4.1130	-11.9260				33.0					57.22	57.22	m i ke	BGR
OrigID 81005009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81005009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	57.22		P	15:23:23.856		209.7		7.46		TAS		12.3	1.21	m_e mb	4.8

Event 81005004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/05	21:08:28.95			-22.4200	170.0700				33.0				29	145.00	150.32	m i ke	BGR
OrigID																	

81005010

Magnitude	Err	Nsta	Author	OrigID
Ms	5.3		BGR	81005010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.32		PKPbc	21:28:16.361		36.8		2.82		TAS				a_e	
BFO	150.32		PKPab	21:28:22.424		36.8		2.82		TAS				m_e	
BRG	146.05		PKPbc	21:28:04.911	0.3	36.8		2.82		TAS				m_e	
BSEG	145.00		PKPbc	21:28:01.353	-0.1	36.8		2.82		TAS				m_e	
BUG	148.10		PKPbc	21:28:10.711	0.1	36.8		2.82		TAS				a_e	
CLL	146.11		PKPbc	21:28:04.811	-0.1	36.8		2.82		TAS				a_e	
CLZ	146.70		PKPbc	21:28:07.161	-0.3	36.8		2.82		TAS				a_e	
FLT1	145.99		PKPbc	21:28:04.261	-0.1	36.8		2.82		TAS				a_e	
FUR	149.23		PKPab	21:28:18.358		36.8		2.82		TAS				m_e	
GEC2	147.64		PKPbc	21:28:09.811	-0.6	36.8		2.82		TAS				a_e	
GEC2	147.64		PKPab	21:28:12.193		36.8		2.82		TAS				m_e	
GOR1	145.43		PKPbc	21:28:03.011	-0.1	36.8		2.82		TAS				a_e	
GRA1	148.08		PKPbc	21:28:10.987	-0.0	36.8		2.82		TAS				m_e	
GRA1	148.08		L	22:37:06.117						T__		390.8	19.20	a_e Ms	5.2
GTTG	147.09		PKPbc	21:28:08.161	0.2	36.8		2.82		TAS				a_e	
IBBN	147.20		PKPbc	21:28:08.111	0.3	36.8		2.82		TAS				a_e	
KAST	147.92		PKPbc	21:28:10.461	0.3	36.8		2.82		TAS				a_e	
KAST	147.92		PKPab	21:28:12.461		36.8		2.82		TAS				m_e	
MANZ	147.49		PKPbc	21:28:09.411	0.3	36.8		2.82		TAS				a_e	
MOX	147.18		PKPbc	21:28:08.261	0.3	36.8		2.82		TAS				a_e	
MOX	147.18		L	22:37:16.192						T__		552.4	19.40	a_e Ms	5.3
NEUB	146.69		PKPbc	21:28:06.861	0.1	36.8		2.82		TAS				a_e	
NRDL	146.26		PKPbc	21:28:05.461	-0.5	36.8		2.82		TAS				a_e	
PLN	147.08		PKPbc	21:28:08.161	0.3	36.8		2.82		TAS				a_e	
RETH	146.31		PKPbc	21:28:05.611	-0.2	36.8		2.82		TAS				a_e	
RJOB	148.86		PKPbc	21:28:12.711		36.8		2.82		TAS				a_e	
ROTZ	147.61		PKPbc	21:28:09.861	0.3	36.8		2.82		TAS				a_e	
ROTZ	147.61		PKPab	21:28:11.791		36.8		2.82		TAS				m_e	
STU	149.63		PKPbc	21:28:15.011	-0.6	36.8		2.82		TAS				a_e	
TANN	147.01		PKPbc	21:28:08.011	0.4	36.8		2.82		TAS				a_e	
TNS	148.72		PKPbc	21:28:12.738	0.3	36.8		2.82		TAS				m_e	
UBBA	147.67		PKPbc	21:28:09.811	0.3	36.8		2.82		TAS				a_e	
UBR	150.11		PKPbc	21:28:15.911		36.8		2.82		TAS				a_e	
UBR	150.11		PKPab	21:28:21.843		36.8		2.82		TAS				m_e	
WET	147.79		PKPbc	21:28:10.361	-0.6	36.8		2.82		TAS				a_e	
WET	147.79		PKPab	21:28:12.551		36.8		2.82		TAS				m_e	
WLF	149.99		PKPbc	21:28:16.411	0.0	36.8		2.82		TAS				a_e	

Event 81005005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID
 2018/10/05 21:23:15.10 -22.1300 169.4500 10.0 147.57 147.57 m i ke NEIC
 81005044

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.57		PKPbc	21:42:56.296		39.9		2.31		TAS					m_e

Event 81006001 Sicily, Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/06	00:34:20.00	6.74	0.78	37.6000	14.8900	122.3	56.7	162	10.0				13 342	8.91	13.25	m i ke	INGV

OrigID
81006091

Magnitude Err Nsta Author OrigID
 Ms 3.5 BGR 81006007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	9.66		P	00:36:39.132	-0.3	166.3				TAS					m_e
BFO	11.75		P	00:37:08.677	-1.6	166.3				TAS					m_e
DAVA	10.36		P	00:36:52.477	0.5	166.3				TAS					m_e
GEC2	11.27		P	00:37:02.135	-0.3	166.3				TAS					m_e
GRA1	12.37		P	00:37:17.894	0.1	166.3				TAS					m_e
GRA1	12.37		L	00:42:03.132						T__		520.8	18.10	a_e Ms	3.6
KBA	9.54		P	00:36:38.926	-0.9	166.3				TAS					m_e
MANZ	12.54		P	00:37:20.543	0.9	166.3				TAS					m_e
MOA	10.25		P	00:36:48.602	0.0	166.3				TAS					m_e
MOX	13.25		P	00:37:29.258	0.5	166.3				TAS					m_e
MOX	13.25		L	00:42:40.790						T__		430.3	19.80	a_e Ms	3.5
OBKA	8.91		P	00:36:30.366	-0.1	166.3				TAS					m_e
RJOB	10.25		P	00:36:49.231	-0.3	166.3				TAS					m_e
WET	11.63		P	00:37:07.248	-0.3	166.3				TAS					m_e
WTTA	9.95		P	00:36:47.834	1.7	166.3				TAS					m_e

Event 81006002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/06	06:55:48.29			-22.7010	170.2710				33.0				20	146.32	150.44	m i ke	BGR

OrigID
81006008

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	146.38		PKPbc	07:15:25.045	0.5	37.1		2.71		TAS				m_e	
BUG	148.43		PKPbc	07:15:31.385		37.1		2.71		TAS				m_e	
CLL	146.44		PKPbc	07:15:25.045	0.5	37.1		2.71		TAS				m_e	
CLZ	147.03		PKPbc	07:15:27.209	-0.2	37.1		2.71		TAS				m_e	
FLT1	146.32		PKPbc	07:15:24.441	0.1	37.1		2.71		TAS				m_e	
GEC2	147.97		PKPbc	07:15:29.775	-0.2	37.1		2.71		TAS				m_e	
GRA1	148.41		PKPbc	07:15:31.012		37.1		2.71		TAS				m_e	
GTTG	147.42		PKPbc	07:15:28.617	0.2	37.1		2.71		TAS				m_e	
IBBN	147.53		PKPbc	07:15:28.599	-0.2	37.1		2.71		TAS				m_e	
KAST	148.25		PKPbc	07:15:31.083		37.1		2.71		TAS				m_e	
MANZ	147.82		PKPbc	07:15:29.573	-0.6	37.1		2.71		TAS				m_e	
NRDL	146.59		PKPbc	07:15:25.649	0.0	37.1		2.71		TAS				m_e	
PLN	147.42		PKPbc	07:15:28.668	0.7	37.1		2.71		TAS				m_e	
RETH	146.64		PKPbc	07:15:25.658	0.3	37.1		2.71		TAS				m_e	
RJOB	149.19		PKPbc	07:15:32.693		37.1		2.71		TAS				m_e	
ROTZ	147.95		PKPbc	07:15:30.228	-0.7	37.1		2.71		TAS				m_e	
TNS	149.06		PKPbc	07:15:32.349		37.1		2.71		TAS				m_e	
UBR	150.44		PKPbc	07:15:36.215		37.1		2.71		TAS				m_e	
WET	148.12		PKPbc	07:15:30.882		37.1		2.71		TAS				m_e	
WLF	150.32		PKPbc	07:15:35.410		37.1		2.71		TAS				m_e	

Event 81006004 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/06	23:01:02.40			-6.2600	148.9100				65.0					124.04	124.04	m i ke	EMSC
OrigID 81006036																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	124.04		PKP	23:19:52.904		53.9		1.08		TAS				m_e	

Event 81007001 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/07	00:10:04.70			7.6100	-37.7400				10.0					58.48	58.48	m i ke	EMSC
OrigID 81007033																	

Magnitude Err Nsta Author OrigID

mb	5.4		BGR	81007007
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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GRA1 58.48 P 00:20:00.392 241.3 6.68 TAS 42.6 1.16 m_e mb 5.4

Event 81007002 Haiti region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2018/10/07 00:11:50.41 20.3900 -72.8500 10.0 3.7 32 67.69 72.71 m i ke BGR
81007008

Magnitude Err Nsta Author OrigID
mb 6.2 BGR 81007008
MBB 6.5 BGR 81007008
Ms 5.9 BGR 81007008

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

Station	Mag	Type	Time	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
TANN	71.62	S	00:32:30.977																
TANN	71.62	P	00:23:12.246		278.4				6.14				160.8	1.20	a_e	MBB	6.4		
TNS	69.11	P	00:22:57.096	-0.1	278.4				6.14				374.6	1.47	a_e	MBB	6.6		
UBBA	70.01	P	00:23:02.396		278.4				6.14				362.1	1.82	a_e	MBB	6.4		
UBR	70.55	P	00:23:05.846		278.4				6.14				350.6	1.85	a_e	MBB	6.5		
WET	72.12	P	00:23:15.496		278.4				6.14				381.5	1.62	a_e	MBB	6.5		
WLF	67.69	P	00:22:48.146	0.0	278.4				6.14				361.4	1.48	m_e	MBB	6.7		

Event 81007003 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
2018/10/07	01:14:13.85			34.1090	138.3120				33.0					84.29	84.29	m i ke	BGR
OrigID 81007009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81007009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.29		P	01:26:41.273		46.8		4.37		TAS		11.5	1.12	m_e mb	5.0

Event 81007004 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/07	03:00:24.05			26.2200	141.6870				33.0					92.55	92.55	m i ke	BGR
OrigID 81007010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81007010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.55		P	03:13:31.109		51.1		4.33		TAS		17.3	1.06	m_e mb	5.4

Event 81007005 Afghanistan-Tajikistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/07	13:52:34.13			36.2880	71.9830				197.6					45.22	45.22	m i ke	BGR
OrigID 81007011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81007011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	45.22		P	14:00:30.364		93.6		6.97		TAS		16.0	0.88	m_e	mb 5.0
GRA1	45.22		pP	14:01:13.304						T__				m_e	

Event 81007006 Kermadec Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/07	17:42:20.00			-28.1800	-179.3300				384.0					157.05	157.05	m i ke	EMSC
OrigID 81007038																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	157.05		PKP	18:02:02.362		24.5		3.93		TAS				m_e	

Event 81007007 Haiti region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/07	20:00:22.96			20.2700	-72.4600				33.0				31	67.53	72.54	m i ke	BGR
OrigID 81007013																	

Magnitude Err Nsta Author OrigID

mb	5.7		BGR	81007013
Ms	5.2		BGR	81007013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	69.10		P	20:11:25.770	0.1	278.3		6.13		TAS		65.1	1.61	a_e	mb 5.6
BRG	72.32		P	20:11:45.770	-0.1	278.3		6.13		TAS		52.2	1.18	a_e	mb 5.5
BSEG	69.66		P	20:11:29.570	0.0	278.3		6.13		TAS		47.9	1.14	a_e	mb 5.6
BUG	68.08		P	20:11:19.620	-0.3	278.3		6.13		TAS		194.1	1.70	a_e	mb 6.1
CLL	71.66		P	20:11:41.620	-0.2	278.3		6.13		TAS		50.5	1.27	a_e	mb 5.5
CLZ	69.95		P	20:11:31.670	0.1	278.3		6.13		TAS		58.3	1.00	a_e	mb 5.8
FLT1	70.42		P	20:11:33.870	0.2	278.3		6.13		TAS		76.8	1.15	a_e	mb 5.7
FUR	71.07		P	20:11:38.270	-0.1	278.3		6.13		TAS		88.3	1.18	a_e	mb 5.8
GEC2	72.54		P	20:11:47.070	-0.1	278.3		6.13		TAS		71.4	1.26	a_e	mb 5.7
GOR1	70.37		P	20:11:33.970	0.3	278.3		6.13		TAS		113.6	1.43	a_e	mb 5.8
GRA1	70.79		P	20:11:36.570	0.2	278.3		6.13		TAS		53.1	1.36	a_e	mb 5.5
GRA1	70.79		L	20:38:18.996						T__		2288.0	20.30	a_e	Ms 5.4
GTTG	69.74		P	20:11:30.270	-0.3	278.3		6.13		TAS		64.3	1.14	a_e	mb 5.8
IBBN	68.30		P	20:11:21.120	-0.4	278.3		6.13		TAS		108.0	1.05	a_e	mb 6.0
KAST	68.82		P	20:11:24.320	-0.1	278.3		6.13		TAS		61.2	1.22	a_e	mb 5.7
MANZ	71.31		P	20:11:39.820	0.2	278.3		6.13		TAS		20.3	1.41	a_e	mb 5.1

MOX	70.90	P	20:11:37.170	-0.2	278.3	6.13	TAS	52.3	1.31	a_e	mb	5.5
MOX	70.90	L	20:41:41.722				T__	810.2	18.30	a_e	Ms	5.0
NEUB	70.91	P	20:11:37.270	-0.2	278.3	6.13	TAS	72.2	1.02	a_e	mb	5.8
NRDL	69.71	P	20:11:30.220	-0.2	278.3	6.13	TAS	110.1	1.35	a_e	mb	5.9
PLN	71.26	P	20:11:39.270	-0.1	278.3	6.13	TAS	45.5	1.04	a_e	mb	5.5
RETH	69.23	P	20:11:27.270	0.3	278.3	6.13	TAS	104.0	1.45	a_e	mb	5.9
RGN	71.33	P	20:11:40.070	0.4	278.3	6.13	TAS	148.0	1.20	a_e	mb	6.0
RJOB	72.15	P	20:11:44.670	0.7	278.3	6.13	TAS	32.0	1.26	a_e	mb	5.3
ROTZ	71.41	P	20:11:40.520	0.0	278.3	6.13	TAS	18.3	1.27	m_e	mb	5.1
RUE	71.93	P	20:11:43.320	-0.2	278.3	6.13	TAS	48.7	1.00	a_e	mb	5.6
STU	69.61	P	20:11:29.070	-0.3	278.3	6.13	TAS	50.0	0.78	a_e	mb	5.8
TANN	71.47	P	20:11:40.620	0.2	278.3	6.13	TAS	46.3	1.02	a_e	mb	5.6
TNS	68.95	P	20:11:25.420	0.1	278.3	6.13	TAS	141.9	1.53	a_e	mb	6.0
UBBA	69.86	P	20:11:30.770	-0.1	278.3	6.13	TAS	76.3	1.57	a_e	mb	5.7
UBR	70.37	P	20:11:34.420		278.3	6.13	TAS	49.6	1.40	a_e	mb	5.5
WET	71.95	P	20:11:43.820	-0.1	278.3	6.13	TAS	116.6	1.62	a_e	mb	5.8
WLF	67.53	P	20:11:16.520	0.0	278.3	6.13	TAS	81.8	1.27	a_e	mb	5.8

Event 81008004 Gulf of California, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/08	12:05:56.90			23.5900	-108.8900				10.0			14		86.72	91.82	m i ke	EMSC
81008036																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.1		BGR	81008010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	89.06		S	12:29:33.474	0.4					T__				m_e		
BRG	90.42		S	12:29:59.757						T__				m_e		
BSEG	86.78		S	12:29:25.071	2.8					T__				m_e		
BUG	86.72		S	12:29:19.319	3.6					T__				m_e		
CLL	89.68		S	12:29:52.347	-3.8					T__				m_e		
GEC2	91.59		S	12:30:06.502						T__				m_e		
GEC2	91.59		L	12:58:24.588						T__		697.2	21.60	a_e	Ms	5.1
GRA1	89.79		S	12:29:59.425	0.7					T__				m_e		
GRA1	89.79		L	12:57:46.684						T__		1020.3	20.60	a_e	Ms	5.2
GTTG	88.03		S	12:29:35.833	-5.8					T__				m_e		
MOX	89.41		S	12:29:47.629	-4.3					T__				m_e		
MOX	89.41		L	12:56:24.839						T__		1147.8	19.70	a_e	Ms	5.3
RJOB	91.82		S	12:30:01.784						T__				m_e		
ROTZ	90.25		S	12:29:49.988						T__				m_e		
ROTZ	90.25		L	12:58:47.562						T__		283.8	18.50	a_e	Ms	4.7
TNS	88.03		S	12:29:35.833	1.8					T__				m_e		
UBBA	88.48		S	12:29:40.552	10.0					T__				m_e		
WLF	87.13		S	12:29:26.397	-3.4					T__				m_e		

Event 81008002 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/08	19:51:53.85			36.0640	143.5520				33.0					84.76	84.76	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	81008008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.76		P	20:04:23.536		39.6		4.30		TAS		4.8	0.91	m_e mb	4.7

Event 81008003 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/08	23:14:29.36			46.0700	152.9430				33.0					78.99	78.99	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	81008009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.99		P	23:26:28.450		27.0		4.87		TAS		4.9	0.84	m_e mb	4.6

Event 81009001 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/08	23:52:23.69			-20.7630	171.8340				33.0				20	145.08	149.46	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	149.46		PKPbc	00:12:07.629		35.0		2.88		TAS				m_e	
BRG	145.29		PKPbc	00:11:54.831	0.2	35.0		2.88		TAS				m_e	
CLL	145.30		PKPbc	00:11:55.064	0.4	35.0		2.88		TAS				m_e	
CLZ	145.78		PKPbc	00:11:58.554	0.3	35.0		2.88		TAS				m_e	
FLT1	145.08		PKPbc	00:11:55.297	0.6	35.0		2.88		TAS				m_e	
FUR	148.50		PKPbc	00:12:06.233		35.0		2.88		TAS				m_e	

GEC2	146.96	PKPbc	00:12:01.812	-0.9	35.0	2.88	TAS	m_e
GRA1	147.28	PKPbc	00:12:03.191		35.0	2.88	TAS	m_e
IBBN	146.17	PKPbc	00:12:00.183	-1.3	35.0	2.88	TAS	m_e
MANZ	146.70	PKPbc	00:12:00.416	1.0	35.0	2.88	TAS	m_e
MOX	146.35	PKPbc	00:11:59.950	0.8	35.0	2.88	TAS	m_e
NEUB	145.84	PKPbc	00:11:58.322	0.1	35.0	2.88	TAS	m_e
NRDL	145.31	PKPbc	00:11:56.926	-0.2	35.0	2.88	TAS	m_e
PLN	146.28	PKPbc	00:11:59.950	0.9	35.0	2.88	TAS	m_e
ROTZ	146.84	PKPbc	00:12:01.114	-1.2	35.0	2.88	TAS	m_e
STU	148.78	PKPbc	00:12:07.629		35.0	2.88	TAS	m_e
TNS	147.79	PKPbc	00:12:04.604		35.0	2.88	TAS	m_e
UBR	149.35	PKPbc	00:12:06.931		35.0	2.88	TAS	m_e
WET	147.07	PKPbc	00:12:02.975		35.0	2.88	TAS	m_e
WLF	148.99	PKPbc	00:12:06.233		35.0	2.88	TAS	m_e

Event 81009002 Off coast of Costa Rica

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/09	01:48:03.68			8.4590	-85.0010				33.0					87.62	87.62	m i ke	BGR
OrigID 81009008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	81009008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	87.62		P	02:00:48.653		271.2		5.73		TAS		6.4	1.09	m_e mb	4.9

Event 81009003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/09	03:01:29.80			-18.7500	-179.9300				600.0				29	144.00	150.00	m i ke	BGR
OrigID 81009009																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.74		PKPbc	03:20:12.297		15.4		2.78		TAS				m_e	
BFO	149.74		PKPab	03:20:17.258						T__				m_e	
BRG	146.10		PKPbc	03:20:03.200	0.3	15.4		2.78		TAS				m_e	
BSEG	144.00		PKPbc	03:19:56.096	-0.1	15.4		2.78		TAS				m_e	
BUG	146.89		PKPbc	03:20:04.394	0.2	15.4		2.78		TAS				m_e	
CLL	145.94		PKPbc	03:20:02.447	0.3	15.4		2.78		TAS				m_e	
CLZ	146.00		PKPbc	03:20:02.608	0.0	15.4		2.78		TAS				m_e	

FLT1	145.36	PKPbc	03:20:00.186	-0.0	15.4	2.78	TAS	m_e
FUR	149.28	PKPbc	03:20:11.435	-0.5	15.4	2.78	TAS	m_e
GEC2	148.02	PKPbc	03:20:08.690	-0.3	15.4	2.78	TAS	m_e
GOR1	144.72	PKPbc	03:19:58.680	-0.2	15.4	2.78	TAS	m_e
GRA1	147.86	PKPbc	03:20:08.260	0.0	15.4	2.78	TAS	m_e
GRA1	147.86	PKPab	03:20:11.705				T__	m_e
GTTG	146.35	PKPbc	03:20:03.577	-0.3	15.4	2.78	TAS	m_e
IBBN	145.97	PKPbc	03:20:02.124	-0.1	15.4	2.78	TAS	m_e
KAST	146.95	PKPbc	03:20:04.977	0.2	15.4	2.78	TAS	m_e
MANZ	147.38	PKPbc	03:20:06.753	0.2	15.4	2.78	TAS	m_e
MOX	146.88	PKPbc	03:20:05.192	0.2	15.4	2.78	TAS	m_e
MOX	146.88	PKPab	03:20:07.399				T__	m_e
NEUB	146.32	PKPbc	03:20:03.685	0.1	15.4	2.78	TAS	m_e
NRDL	145.42	PKPbc	03:20:00.617	0.3	15.4	2.78	TAS	m_e
PLN	146.90	PKPbc	03:20:05.300	0.9	15.4	2.78	TAS	m_e
RETH	145.31	PKPbc	03:20:00.139	-0.1	15.4	2.78	TAS	m_e
RJOB	149.28	PKPbc	03:20:11.543		15.4	2.78	TAS	m_e
RJOB	149.28	PKPab	03:20:17.048				T__	m_e
ROTZ	147.56	PKPbc	03:20:07.291	0.6	15.4	2.78	TAS	m_e
RUE	144.67	PKPbc	03:19:58.679	-0.4	15.4	2.78	TAS	m_e
TANN	146.90	PKPbc	03:20:05.407	0.3	15.4	2.78	TAS	m_e
TNS	147.89	PKPbc	03:20:07.775	-0.0	15.4	2.78	TAS	m_e
TNS	147.89	PKPab	03:20:11.214				T__	m_e
UBBA	147.04	PKPbc	03:20:06.107	0.3	15.4	2.78	TAS	m_e
UBR	150.00	PKPbc	03:20:13.158		15.4	2.78	TAS	m_e
WET	147.97	PKPbc	03:20:08.305	0.2	15.4	2.78	TAS	m_e
WET	147.97	PKPab	03:20:12.889				T__	m_e
WLF	148.77	PKPbc	03:20:10.144	-0.6	15.4	2.78	TAS	m_e

Event 81009004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/09	07:45:13.11			49.5900	156.2400				33.0			31		71.66	78.78	m i ke	BGR
81009010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	81009010
MBB	6.5		BGR	81009010
Ms	6.4		BGR	81009010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.61		P	07:57:12.097	-0.1	22.8		5.77		TAS		79.1	0.77	a_e	MBB 6.6
BRG	74.86		S	08:06:18.265						T__					m_e
BRG	74.86		P	07:56:50.747	-0.0	22.8		5.77		TAS		80.0	1.23	a_e	MBB 6.4
BSEG	72.93		P	07:56:39.997	0.4	22.8		5.77		TAS		112.6	1.30	a_e	MBB 6.6
BUG	75.93		P	07:56:57.047	-0.5	22.8		5.77		TAS		173.1	1.25	a_e	MBB 6.5

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA2 123.18 PKP 02:21:48.816 55.2 1.02 TAS m_e

Event 81010003 Alaska Peninsula, United States

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/10/10 06:27:55.05 55.6930 -161.1670 33.0 74.79 74.79 m i ke BGR
81010009

Magnitude Err Nsta Author OrigID
mb 4.8 BGR 81010009

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 74.79 P 06:39:30.255 351.8 5.24 TAS 11.2 1.01 m_e mb 4.8

Event 81010005 Myanmar

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/10/10 10:28:04.80 19.0400 95.6000 13.0 72.14 72.14 m i ke EMSC
81010037

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 81010011

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 72.14 P 10:39:28.417 81.5 5.09 TAS 10.2 0.89 m_e mb 5.0

Event 81010006 South of Fiji Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/10/10 11:11:03.70 -22.0800 -179.1900 589.0 151.24 151.24 m i ke EMSC
81010038

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 151.24 PKPdf 11:29:51.276 20.4 1.95 TAS m_e
GRA1 151.24 PKPab 11:30:02.227 24.3 3.78 TAS m_e

Event 81010008 Bali Sea
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2018/10/10 18:44:59.40 -7.3600 114.4600 40.0 28 102.31 107.41 m i ke EMSC
 81010040

Magnitude Err Nsta Author OrigID
 Ms 5.8 BGR 81010014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	106.18		Pdiff	18:59:07.448	-0.2					T__				a_e	
BRG	102.31		Pdiff	18:58:50.748	0.0					T__				m_e	
BSEG	104.24		Pdiff	18:58:59.598	0.0					T__				a_e	
BUG	106.42		Pdiff	18:59:08.848	0.1					T__				a_e	
CLL	102.87		Pdiff	18:58:52.848	-0.2					T__				a_e	
CLZ	104.45		Pdiff	18:59:00.348	-0.2					T__				a_e	
FLT1	103.87		Pdiff	18:58:56.948	-0.1					T__				a_e	
FUR	104.24		Pdiff	18:58:58.998						T__				a_e	
GEC2	102.58		Pdiff	18:58:52.048	-0.3					T__				a_e	
GOR1	103.76		Pdiff	18:58:57.198	0.3					T__				a_e	
GRA1	104.14		Pdiff	18:58:59.098	0.1					T__				a_e	
GRA1	104.14		PKKPbc	19:14:48.056		245.8		3.07		TAS				m_e	
GRA1	104.14		PKKPdf	19:14:56.113		244.0		2.81		TAS				m_e	
GRA1	104.14		PKPPKP	19:23:09.588		244.7		2.58		TAS				m_e	
GRA1	104.14		L	19:52:04.436						T__		2508.4	20.60	a_e Ms	5.7
GTTG	104.74		Pdiff	18:59:01.498	-0.4					T__				a_e	
IBBN	105.99		Pdiff	18:59:07.298	0.1					T__				a_e	
KAST	105.75		Pdiff	18:59:06.098	0.1					T__				a_e	
MANZ	103.54		Pdiff	18:58:56.598	0.4					T__				a_e	
MOX	103.80		Pdiff	18:58:57.348	-0.0					T__				a_e	
MOX	103.80		L	19:58:22.437						T__		2834.5	18.00	a_e Ms	5.8
NEUB	103.65		Pdiff	18:58:56.448	-0.1					T__				a_e	
NRDL	104.54		Pdiff	18:59:01.048	0.1					T__				a_e	
PLN	103.47		Pdiff	18:58:55.848	0.1					T__				a_e	
RETH	104.96		Pdiff	18:59:02.648	0.0					T__				a_e	
ROTZ	103.50		Pdiff	18:58:56.348	0.3					T__				a_e	
RUE	102.31		Pdiff	18:58:50.798	-0.8					T__				a_e	
TANN	103.28		Pdiff	18:58:54.998	0.4					T__				a_e	
TNS	105.86		Pdiff	18:59:06.598	0.4					T__				a_e	
UBBA	104.80		Pdiff	18:59:01.748	0.0					T__				a_e	
UBR	105.07		Pdiff	18:59:02.748						T__				a_e	
WET	103.11		Pdiff	18:58:54.398	-0.5					T__				a_e	
WLF	107.41		Pdiff	18:59:13.798	0.2					T__				a_e	

Event 81010009 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/10	20:45:27.10			-5.7900	151.3100				60.0					124.88	124.88	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	124.88		PKP	21:04:20.779		51.1		1.31		TAS					m_e

Event 81010010 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/10	20:48:19.30			-5.6300	151.2000				30.0			31		120.62	127.17	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Ms 7.0 BGR 81010016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	127.02		PKP	21:07:19.899	-0.4	53.0		1.95		TAS					a_e	
BFO	127.02		PP	21:09:23.651	-0.2	51.7		7.51		TAS					m_e	
BRG	122.58		PKP	21:07:11.749	0.1	53.0		1.95		TAS					a_e	
BRG	122.58		PP	21:08:51.153	0.3	51.7		7.51		TAS					m_e	
BSEG	122.36		PKP	21:07:11.499	-0.1	53.0		1.95		TAS					a_e	
BSEG	122.36		PP	21:08:49.296	-0.8	51.7		7.51		TAS					m_e	
BUG	125.42		PKP	21:07:17.149	-0.3	53.0		1.95		TAS					a_e	
BUG	125.42		PP	21:09:13.901	-0.2	51.7		7.51		TAS					m_e	
CLL	122.79		PKP	21:07:11.899	-0.2	53.0		1.95		TAS					a_e	
CLL	122.79		PP	21:08:51.617	-0.9	51.7		7.51		TAS					m_e	
CLZ	123.72		PKP	21:07:14.299	0.3	53.0		1.95		TAS					a_e	
CLZ	123.72		PP	21:09:01.367	-0.8	51.7		7.51		TAS					m_e	
FLT1	123.00		PKP	21:07:12.349	-0.3	53.0		1.95		TAS					a_e	
FLT1	123.00		PP	21:08:51.543	-2.8	51.7		7.51		TAS					m_e	
FUR	125.61		PKP	21:07:17.499	0.0	53.0		1.95		TAS					a_e	
FUR	125.61		PP	21:09:13.450	1.2	51.7		7.51		TAS					m_e	
GEC2	123.91		PKP	21:07:14.199	0.1	53.0		1.95		TAS					a_e	
GEC2	123.91		PP	21:08:59.045	1.8	51.7		7.51		TAS					m_e	
GOR1	122.53		PKP	21:07:11.949	0.2	53.0		1.95		TAS					a_e	
GOR1	122.53		PP	21:08:51.617	0.6	51.7		7.51		TAS					m_e	
GRA1	124.69		PKP	21:07:15.799	0.1	53.0		1.95		TAS					m_e	
GRA1	124.69		PP	21:09:05.545	0.2	51.7		7.51		TAS					m_e	
GRA1	124.69		L	22:01:53.336						T__		49685.0	21.50	a_e	Ms	7.1

Magnitude	Err	Nsta	Author	OrigID											
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	124.91		PKP	21:32:12.031		51.4		1.07		TAS					m_e

Event 81010012 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/10	23:15:54.60			48.5300	157.1600				10.0			31		72.87	79.99	m i ke	BGR
				81010018													

Magnitude	Err	Nsta	Author	OrigID
mb	6.5		BGR	81010018
MBB	7.1		BGR	81010018
Ms	7.1		BGR	81010018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	79.81		S	23:38:06.510		23.0		10.23		TAS					m_e
BFO	79.81		P	23:28:03.347	-0.5					T__		421.8	0.97	a_e	mb 6.5
BRG	76.07		S	23:37:31.719		23.0		10.23		TAS					m_e
BRG	76.07		P	23:27:41.947	-0.1					T__		322.9	1.18	a_e	mb 6.3
BSEG	74.13		P	23:27:31.147	0.2					T__		804.8	1.54	a_e	mb 6.6
BUG	77.13		S	23:37:36.200		23.0		10.23		TAS					m_e
BUG	77.13		P	23:27:48.097	-0.2					T__		635.7	1.15	a_e	mb 6.5
CLL	75.92		S	23:37:25.921	1.9	23.0		10.23		TAS					m_e
CLL	75.92		P	23:27:40.797	-0.4					T__		534.8	0.96	a_e	mb 6.7
CLZ	76.06		S	23:37:28.293	0.2	23.0		10.23		TAS					m_e
CLZ	76.06		P	23:27:42.447	0.3					T__		910.6	1.18	a_e	mb 6.8
FLT1	75.41		P	23:27:37.897	-0.4					T__		468.7	0.94	a_e	mb 6.6
FUR	79.25		S	23:38:04.138		23.0		10.23		TAS					m_e
FUR	79.25		P	23:28:00.397	-0.1					T__		799.4	1.05	a_e	mb 6.8
GEC2	77.99		S	23:37:45.671		23.0		10.23		TAS					m_e
GEC2	77.99		P	23:27:53.297	0.2					T__		359.7	1.13	a_e	mb 6.3
GOR1	74.78		P	23:27:34.897	0.2					T__		1194.7	1.47	a_e	mb 6.8
GRA1	77.85		S	23:37:45.952		23.0		10.23		TAS					m_e
GRA1	77.85		P	23:27:52.597	0.1					T__		1064.6	1.04	a_e	mb 6.8
GRA1	77.85		L	00:07:10.202						T__		77760.0	18.00	a_e	Ms 7.1
GTTG	76.43		S	23:37:32.774		23.0		10.23		TAS					m_e
GTTG	76.43		P	23:27:44.447	0.2					T__		560.4	1.26	a_e	mb 6.5
HLG	74.42		P	23:27:33.097	0.5					T__		783.0	1.26	a_e	mb 6.7
HLG	74.42		S	23:37:11.425	3.2	23.0		10.23		TAS					m_e
IBBN	76.21		S	23:37:31.719		23.0		10.23		TAS					m_e
IBBN	76.21		P	23:27:42.997	-0.0					T__		585.0	1.15	a_e	mb 6.5
KAST	77.10		S	23:37:37.782		23.0		10.23		TAS					m_e
KAST	77.10		P	23:27:48.297	0.1					T__		516.0	1.05	a_e	mb 6.5

CLZ	73.86	P	23:33:33.290	1.7	23.0	5.75	TAS	113.8	1.01	a_e	mb	5.8
FLT1	73.20	P	23:33:28.590	0.3	23.0	5.75	TAS	76.5	0.98	a_e	mb	5.8
FUR	77.03	P	23:33:51.190	0.3	23.0	5.75	TAS	116.4	1.03	a_e	mb	6.0
GEC2	75.76	P	23:33:43.790	-0.6	23.0	5.75	TAS	45.9	1.03	a_e	mb	5.5
GOR1	72.58	P	23:33:25.840	0.0	23.0	5.75	TAS	130.0	1.26	a_e	mb	5.9
GRA1	75.64	P	23:33:43.540	0.4	23.0	5.75	TAS	168.1	0.99	a_e	mb	6.1
GTTG	74.24	P	23:33:35.364	-0.2	23.0	5.75	TAS	65.0	1.03	m_e	mb	5.6
IBBN	74.04	P	23:33:33.790	-0.6	23.0	5.75	TAS	82.6	0.98	a_e	mb	5.7
KAST	74.92	P	23:33:39.090	-0.3	23.0	5.75	TAS	68.4	0.94	a_e	mb	5.7
MANZ	75.14	P	23:33:40.240	0.2	23.0	5.75	TAS	12.5	0.99	m_e	mb	4.9
MOX	74.66	P	23:33:37.490	0.1	23.0	5.75	TAS	56.6	0.98	a_e	mb	5.6
NEUB	74.12	P	23:33:34.140	-0.3	23.0	5.75	TAS	91.4	1.13	a_e	mb	5.7
NRDL	73.32	P	23:33:29.690	-0.2	23.0	5.75	TAS	54.9	1.03	a_e	mb	5.6
PLN	74.67	P	23:33:37.640	0.0	23.0	5.75	TAS	52.8	0.99	a_e	mb	5.5
RETH	73.27	P	23:33:29.540	-0.1	23.0	5.75	TAS	80.5	1.15	a_e	mb	5.7
RGN	70.67	P	23:33:13.683	-0.1	23.0	5.75	TAS	91.7	0.90	m_e	mb	5.9
RJOB	77.02	P	23:33:51.390	-0.3	23.0	5.75	TAS	39.8	0.94	a_e	mb	5.5
ROTZ	75.31	P	23:33:41.540	-0.1	23.0	5.75	TAS	18.8	1.06	a_e	mb	5.0
RUE	72.43	P	23:33:24.540	-0.1	23.0	5.75	TAS	73.0	0.87	a_e	mb	5.8
TANN	74.66	P	23:33:37.540	-0.1	23.0	5.75	TAS	31.5	1.12	a_e	mb	5.2
TNS	75.82	P	23:33:44.090	-0.1	23.0	5.75	TAS	72.5	0.88	a_e	mb	5.8
UBBA	74.90	P	23:33:38.790	-0.1	23.0	5.75	TAS	34.6	1.06	a_e	mb	5.3
UBR	77.78	P	23:33:55.190		23.0	5.75	TAS	87.9	1.41	a_e	mb	5.7
WET	75.71	P	23:33:43.990	-0.0	23.0	5.75	TAS	91.6	0.99	a_e	mb	5.9
WLF	76.87	P	23:33:49.990	0.4	23.0	5.75	TAS	58.8	1.17	a_e	mb	5.6

Event 81011001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	00:14:43.64			49.6600	156.2200				33.0			30		71.59	78.71	m i ke	BGR
81011007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	81011007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.54	P		00:26:42.302	0.0	22.7		5.74		TAS		50.5	1.04	a_e	mb 5.6
BRG	74.79	P		00:26:20.952	-0.0	22.7		5.74		TAS		30.7	1.10	a_e	mb 5.2
BSEG	72.86	P		00:26:10.252	0.4	22.7		5.74		TAS		35.8	1.02	a_e	mb 5.4
BUG	75.86	P		00:26:27.252	-0.5	22.7		5.74		TAS		67.2	1.14	a_e	mb 5.6
CLL	74.64	P		00:26:19.902	0.1	22.7		5.74		TAS		61.4	0.96	a_e	mb 5.6
CLZ	74.78	P		00:26:21.602	0.1	22.7		5.74		TAS		106.5	1.19	a_e	mb 5.8
FLT1	74.13	P		00:26:16.952	0.4	22.7		5.74		TAS		46.4	0.85	a_e	mb 5.6
FUR	77.97	P		00:26:39.502	0.3	22.7		5.74		TAS		77.2	0.97	a_e	mb 5.8
GEC2	76.71	P		00:26:32.152	-0.5	22.7		5.74		TAS		21.0	0.75	a_e	mb 5.3
GOR1	73.50	P		00:26:14.252	0.1	22.7		5.74		TAS		85.4	1.31	a_e	mb 5.7

GRA1	76.57	P	00:26:31.902	0.4	22.7	5.74	TAS	157.3	1.18	a_e	mb	6.0
GTTG	75.15	P	00:26:23.502	-0.1	22.7	5.74	TAS	69.1	1.27	a_e	mb	5.5
IBBN	74.94	P	00:26:22.152	-0.5	22.7	5.74	TAS	46.8	0.89	a_e	mb	5.5
KAST	75.83	P	00:26:27.302	-0.2	22.7	5.74	TAS	57.9	0.99	a_e	mb	5.6
MANZ	76.08	P	00:26:28.602	0.2	22.7	5.74	TAS	8.6	1.02	m_e	mb	4.7
MOX	75.59	P	00:26:25.852	0.0	22.7	5.74	TAS	48.1	1.08	a_e	mb	5.5
NEUB	75.05	P	00:26:22.502	-0.3	22.7	5.74	TAS	53.4	1.04	a_e	mb	5.5
NRDL	74.24	P	00:26:18.102	-0.2	22.7	5.74	TAS	41.9	1.09	a_e	mb	5.5
PLN	75.60	P	00:26:25.952	0.2	22.7	5.74	TAS	41.5	1.09	a_e	mb	5.4
RETH	74.18	P	00:26:17.902	-0.0	22.7	5.74	TAS	51.7	1.11	a_e	mb	5.6
RGN	71.59	P	00:26:02.802	-0.1	22.7	5.74	TAS	107.3	1.00	a_e	mb	5.9
RJOB	77.97	P	00:26:39.752	-0.4	22.7	5.74	TAS	31.0	0.96	a_e	mb	5.4
ROTZ	76.25	P	00:26:29.902	0.0	22.7	5.74	TAS	11.6	0.99	a_e	mb	4.9
RUE	73.37	P	00:26:12.952	0.1	22.7	5.74	TAS	57.0	0.91	a_e	mb	5.7
TANN	75.59	P	00:26:26.058	-0.0	22.7	5.74	TAS	23.2	1.17	m_e	mb	5.1
TNS	76.74	P	00:26:32.402	-0.0	22.7	5.74	TAS	54.9	0.70	a_e	mb	5.8
UBBA	75.82	P	00:26:27.152	-0.0	22.7	5.74	TAS	116.1	1.74	a_e	mb	5.6
UBR	78.71	P	00:26:43.390		22.7	5.74	TAS	28.4	0.89	m_e	mb	5.4
WET	76.65	P	00:26:32.352	-0.1	22.7	5.74	TAS	77.3	1.11	a_e	mb	5.7
WLF	77.77	P	00:26:38.352	0.4	22.7	5.74	TAS	25.4	1.02	a_e	mb	5.3

Event 81011002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	01:30:29.42			49.8700	155.5580				33.0					76.21	76.21	m i ke	BGR
81011008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	81011008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	76.21		P	01:42:12.898		21.6		4.93		TAS		24.3	1.02	m_e	mb	5.3

Event 81011003 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2018/10/11	02:16:14.24			48.6800	157.2100				33.0					30	72.74	79.87	m i ke	BGR
81011009																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	81011009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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BFO	79.69	P	02:28:19.059	0.1	22.5	5.65	TAS	50.2	1.14	a_e	mb	5.3
BRG	75.95	P	02:27:57.659	-0.1	22.5	5.65	TAS	26.1	1.14	a_e	mb	5.3
BSEG	74.00	P	02:27:46.959	0.0	22.5	5.65	TAS	38.3	1.19	a_e	mb	5.3
BUG	77.00	P	02:28:03.959	-0.7	22.5	5.65	TAS	54.6	1.11	a_e	mb	5.6
CLL	75.79	P	02:27:56.559	0.1	22.5	5.65	TAS	57.6	1.06	a_e	mb	5.6
CLZ	75.93	P	02:27:58.359	0.0	22.5	5.65	TAS	75.4	1.11	a_e	mb	5.7
FLT1	75.28	P	02:27:53.659	0.3	22.5	5.65	TAS	38.7	0.92	a_e	mb	5.4
FUR	79.13	P	02:28:16.209	0.5	22.5	5.65	TAS	82.2	1.14	a_e	mb	5.7
GEC2	77.87	P	02:28:08.909	-0.2	22.5	5.65	TAS	36.7	1.21	a_e	mb	5.4
GOR1	74.65	P	02:27:50.859	0.0	22.5	5.65	TAS	90.7	1.27	a_e	mb	5.7
GRA1	77.72	P	02:28:08.609	0.4	22.5	5.65	TAS	112.0	1.13	a_e	mb	5.9
GTTG	76.30	P	02:28:00.209	-0.1	22.5	5.65	TAS	78.0	1.42	a_e	mb	5.6
IBBN	76.08	P	02:27:58.859	-0.7	22.5	5.65	TAS	56.6	1.15	a_e	mb	5.6
KAST	76.97	P	02:28:04.009	-0.4	22.5	5.65	TAS	51.8	1.08	a_e	mb	5.6
MANZ	77.23	P	02:28:05.309	0.2	22.5	5.65	TAS	8.4	1.11	a_e	mb	4.8
MOX	76.75	P	02:28:02.559	-0.0	22.5	5.65	TAS	38.6	1.06	m_e	mb	5.5
NEUB	76.20	P	02:27:59.209	-0.5	22.5	5.65	TAS	69.3	1.28	a_e	mb	5.6
NRDL	75.39	P	02:27:54.759	-0.5	22.5	5.65	TAS	27.7	0.97	a_e	mb	5.3
PLN	76.76	P	02:28:02.709	-0.0	22.5	5.65	TAS	40.3	1.11	a_e	mb	5.5
RETH	75.33	P	02:27:54.659	-0.2	22.5	5.65	TAS	44.9	1.17	a_e	mb	5.4
RGN	72.74	P	02:27:41.659	1.6	22.5	5.65	TAS	160.6	1.37	a_e	mb	6.0
RJOB	79.13	P	02:28:16.509	0.1	22.5	5.65	TAS	31.9	0.98	a_e	mb	5.3
ROTZ	77.41	P	02:28:06.609	0.3	22.5	5.65	TAS	11.0	1.10	a_e	mb	4.9
RUE	74.53	P	02:27:49.609	-0.0	22.5	5.65	TAS	67.4	1.08	a_e	mb	5.6
TANN	76.75	P	02:28:02.659	0.1	22.5	5.65	TAS	29.0	1.19	a_e	mb	5.3
TNS	77.88	P	02:28:09.159	-0.1	22.5	5.65	TAS	59.5	1.08	a_e	mb	5.6
UBBA	76.97	P	02:28:03.809	-0.1	22.5	5.65	TAS	93.0	1.63	a_e	mb	5.7
UBR	79.87	P	02:28:20.359		22.5	5.65	TAS	72.6	1.38	a_e	mb	5.4
WET	77.81	P	02:28:09.059	-0.0	22.5	5.65	TAS	64.0	1.08	a_e	mb	5.7
WLF	78.91	P	02:28:15.159	0.4	22.5	5.65	TAS	32.6	1.06	a_e	mb	5.3

Event 81011004 Banda Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	02:55:44.90			-5.0100	126.7300				10.0					110.16	110.16	m i ke	EMSC
81011036																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	110.16		PP	03:15:03.300						T__					m_e

Event 81011005 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	03:38:51.08			50.6220	156.0500				33.0					75.64	75.64	m i ke	BGR
OrigID 81011011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81011011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	75.64		P	03:50:31.275		25.1		5.15		TAS		21.5	1.01	m_e mb	5.2

Event 81011006 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	05:47:40.62			49.9700	155.8600				33.0				30	71.22	78.34	m i ke	BGR
OrigID 81011012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	81011012
Ms	5.0		BGR	81011012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.16		P	05:59:36.852	-0.0	22.7		5.76		TAS		61.5	1.09	a_e mb	5.7
BRG	74.41		P	05:59:15.402	-0.1	22.7		5.76		TAS		35.1	1.11	a_e mb	5.3
BSEG	72.48		P	05:59:04.652	0.4	22.7		5.76		TAS		61.2	1.26	a_e mb	5.6
BUG	75.49		P	05:59:21.702	-0.5	22.7		5.76		TAS		95.9	1.20	a_e mb	5.7
CLL	74.26		P	05:59:14.302	0.2	22.7		5.76		TAS		86.9	1.10	a_e mb	5.7
CLZ	74.41		P	05:59:16.152	0.1	22.7		5.76		TAS		112.8	1.13	a_e mb	5.8
FLT1	73.75		P	05:59:11.352	0.5	22.7		5.76		TAS		66.6	1.05	a_e mb	5.6
FUR	77.59		P	05:59:34.002	0.3	22.7		5.76		TAS		94.8	0.99	a_e mb	5.9
GEC2	76.33		P	05:59:26.652	-0.5	22.7		5.76		TAS		44.2	1.16	a_e mb	5.5
GOR1	73.13		P	05:59:08.702	0.1	22.7		5.76		TAS		125.1	1.35	a_e mb	5.9
GRA1	76.19		P	05:59:26.352	0.4	22.7		5.76		TAS		140.2	1.02	a_e mb	6.0
GRA1	76.19		L	06:38:50.276						T__		731.4	18.80	a_e Ms	5.0
GTTG	74.78		P	05:59:17.902	-0.1	22.7		5.76		TAS		51.7	1.04	a_e mb	5.5
IBBN	74.57		P	05:59:16.602	-0.6	22.7		5.76		TAS		62.9	0.96	a_e mb	5.6
KAST	75.46		P	05:59:21.852	-0.2	22.7		5.76		TAS		75.3	1.05	a_e mb	5.7
MANZ	75.70		P	05:59:23.052	0.2	22.7		5.76		TAS		10.8	1.08	m_e mb	4.9
MOX	75.22		P	05:59:20.302	0.1	22.7		5.76		TAS		62.2	1.10	a_e mb	5.5
MOX	75.22		L	06:37:00.477						T__		836.3	18.20	a_e Ms	5.1
NEUB	74.67		P	05:59:16.952	-0.3	22.7		5.76		TAS		83.4	1.20	a_e mb	5.6
NRDL	73.87		P	05:59:12.552	-0.2	22.7		5.76		TAS		49.7	1.11	a_e mb	5.5
PLN	75.23		P	05:59:20.502	0.0	22.7		5.76		TAS		55.6	1.10	a_e mb	5.5
RETH	73.81		P	05:59:12.352	0.0	22.7		5.76		TAS		85.3	1.24	a_e mb	5.6
RGN	71.22		P	05:58:57.202	-0.1	22.7		5.76		TAS		137.5	0.97	a_e mb	6.0
RJOB	77.59		P	05:59:34.202	-0.2	22.7		5.76		TAS		35.6	0.99	a_e mb	5.5

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ROTZ	75.88	P	05:59:24.352	-0.0	22.7	5.76	TAS	14.7	1.05	a_e mb	5.0
RUE	72.99	P	05:59:07.352	0.1	22.7	5.76	TAS	137.0	1.35	a_e mb	5.9
TANN	75.22	P	05:59:20.352	-0.1	22.7	5.76	TAS	39.8	1.32	a_e mb	5.3
TNS	76.37	P	05:59:26.852	-0.1	22.7	5.76	TAS	63.5	1.00	a_e mb	5.7
UBBA	75.45	P	05:59:21.602	-0.0	22.7	5.76	TAS	52.6	1.23	a_e mb	5.4
UBR	78.34	P	05:59:38.102		22.7	5.76	TAS	67.1	1.29	a_e mb	5.6
WET	76.27	P	05:59:26.802	-0.0	22.7	5.76	TAS	95.7	1.13	a_e mb	5.8
WLF	77.40	P	05:59:32.802	0.4	22.7	5.76	TAS	43.8	1.06	a_e mb	5.5

Event 81011007 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	06:30:42.43			51.4120	-169.0330				33.0					79.28	79.28	m i ke	BGR
OrigID 81011013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81011013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.28		P	06:42:42.902		358.4		4.93		TAS		24.6	0.99	m_e mb	5.2

Event 81011010 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	15:08:17.17			49.3020	154.8090				33.0					75.57	76.54	m i ke	BGR
OrigID 81011016																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	81011016
Ms	5.0		BGR	81011016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	76.54		P	15:20:02.534		22.4		4.93		TAS		65.8	1.11	m_e mb	5.7
GRA1	76.54		L	15:59:17.652						T__		766.7	18.20	a_e Ms	5.0
MOX	75.57		L	15:57:36.501						T__		738.6	18.50	a_e Ms	5.0

Event 81011011 Near east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/11	16:10:51.10			53.4190	160.4930				33.0					74.04	74.04	m i ke	BGR
OrigID																	

81011017

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81011017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	74.04		P	16:22:21.972		18.6		5.01		TAS		9.2	0.97	m_e	mb	4.8

Event 81012004 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	02:52:02.60			-6.1900	151.0800				10.0					122.80	127.44	m	i ke EMSC
OrigID 81012036																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.3		BGR	81012010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	127.44		L	04:06:48.105						T__		664.3	20.40	a_e	Ms	5.3
BSEG	122.80		L	04:06:39.703						T__		617.1	20.10	a_e	Ms	5.3
CLL	123.21		L	04:05:08.494						T__		706.8	20.10	a_e	Ms	5.3
FUR	126.02		L	04:05:58.710						T__		636.4	21.40	a_e	Ms	5.3
GEC2	124.31		L	04:06:37.732						T__		607.6	20.70	a_e	Ms	5.2
GRA1	125.10		PKPdf	03:11:04.179		51.6		1.13		TAS				m_e		
GRA1	125.10		L	04:10:03.714						T__		673.1	18.60	a_e	Ms	5.3
MOX	124.31		L	04:04:45.729						T__		674.3	21.20	a_e	Ms	5.3
WET	124.58		L	04:00:13.171						T__		663.3	21.70	a_e	Ms	5.3

Event 81012005 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
2018/10/12	04:15:45.91			35.5700	141.7840				33.0					22	81.50	86.73	m i ke BGR
OrigID 81012011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81012011
Ms	4.7		BGR	81012011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	86.73		P	04:28:24.793		38.4		5.07		TAS		51.6	1.00	m_e	mb	5.6
BFO	86.73		L	05:11:24.354						T__		271.1	19.70	a_e	Ms	4.7
BRG	82.46		P	04:28:03.267	-0.0	38.4		5.07		TAS		23.5	0.97	m_e	mb	5.3
BSEG	81.50		P	04:27:58.387	-0.1	38.4		5.07		TAS		52.6	1.13	m_e	mb	5.6

Station	Mag	Type	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Code	SNR	Amp	Per	Qual	Magnitude
BSEG	81.50	L	05:04:30.780									T__	365.7	21.80	a_e	Ms	4.7
CLL	82.51	P	04:28:03.302	-0.1	38.4					5.07		TAS	49.5	0.90	m_e	mb	5.7
CLL	82.51	L	05:07:24.631									T__	397.1	19.00	a_e	Ms	4.8
CLZ	83.13	P	04:28:07.057	0.2	38.4					5.07		TAS	52.5	1.10	a_e	mb	5.7
FUR	85.66	P	04:28:19.923		38.4					5.07		TAS	42.3	0.82	m_e	mb	5.6
GEC2	84.11	P	04:28:11.564	0.3	38.4					5.07		TAS	30.3	1.32	m_e	mb	5.4
GEC2	84.11	L	05:09:21.851									T__	472.7	18.00	a_e	Ms	4.9
GOR1	81.87	P	04:28:00.377	-0.4	38.4					5.07		TAS	46.3	1.18	m_e	mb	5.5
GRA1	84.49	P	04:28:14.257		38.4					5.07		TAS	69.5	0.97	a_e	mb	5.8
GRA1	84.49	L	05:09:38.795									T__	309.0	20.40	a_e	Ms	4.7
GTTG	83.52	P	04:28:08.964	0.0	38.4					5.07		TAS	36.7	1.00	m_e	mb	5.6
IBBN	83.73	P	04:28:09.882	-0.2	38.4					5.07		TAS	58.2	1.10	m_e	mb	5.7
MANZ	83.90	P	04:28:10.708	0.1	38.4					5.07		TAS	3.7	0.83	m_e	mb	4.7
MOX	83.58	P	04:28:09.000	0.3	38.4					5.07		TAS	31.6	1.31	m_e	mb	5.4
MOX	83.58	L	05:08:49.770									T__	268.6	20.40	a_e	Ms	4.6
NEUB	83.09	P	04:28:06.482	0.1	38.4					5.07		TAS	52.3	0.92	m_e	mb	5.8
NRDL	82.72	P	04:28:04.458	0.3	38.4					5.07		TAS	12.6	0.83	m_e	mb	5.2
PLN	83.49	P	04:28:08.693	0.1	38.4					5.07		TAS	12.3	0.92	m_e	mb	5.1
RETH	82.80	P	04:28:05.039	-0.1	38.4					5.07		TAS	41.0	1.19	m_e	mb	5.5
RJOB	85.35	P	04:28:18.325		38.4					5.07		TAS	22.8	1.01	m_e	mb	5.3
ROTZ	84.03	P	04:28:11.672	0.6	38.4					5.07		TAS	19.9	1.50	m_e	mb	5.1
TANN	83.42	P	04:28:08.128	-0.1	38.4					5.07		TAS	36.4	1.60	m_e	mb	5.4
UBR	86.53	P	04:28:23.350		38.4					5.07		TAS	14.7	1.08	m_e	mb	5.0
WET	84.23	P	04:28:12.425	-0.7	38.4					5.07		TAS	30.8	1.28	m_e	mb	5.4
WET	84.23	L	05:09:14.501									T__	317.0	18.80	a_e	Ms	4.7

Event 81012006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	12:02:29.30			-18.0700	-178.1500				600.0			14		143.61	149.70	m i ke	EMSC
	81012038																

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.36		PKPdf	12:21:11.798		16.8		2.71		TAS				m_e	
BRG	145.88		PKPdf	12:21:02.974		16.8		2.71		TAS				a_e	
BSEG	143.61		PKPdf	12:20:55.714	0.3	16.8		2.71		TAS				m_e	
CLL	145.67		PKPdf	12:21:02.174	-0.1	16.8		2.71		TAS				m_e	
CLZ	145.63		PKPdf	12:21:02.110	0.2	16.8		2.71		TAS				m_e	
FLT1	145.02		PKPdf	12:20:59.906	0.3	16.8		2.71		TAS				m_e	
GEC2	147.83		PKPdf	12:21:08.174		16.8		2.71		TAS				a_e	
GOR1	144.38		PKPdf	12:20:58.743	0.3	16.8		2.71		TAS				m_e	
GTTG	145.98		PKPdf	12:21:03.142	0.2	16.8		2.71		TAS				m_e	
IBBN	145.52		PKPdf	12:21:02.570	0.3	16.8		2.71		TAS				m_e	
KAST	146.53		PKPdf	12:21:04.507	-0.4	16.8		2.71		TAS				m_e	

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MANZ	147.11	PKPdf	12:21:06.421	16.8	2.71	TAS	m_e
MOX	146.58	PKPdf	12:21:04.673	16.8	2.71	TAS	m_e
NEUB	146.02	PKPdf	12:21:03.334	16.8	2.71	TAS	m_e
NRDL	145.04	PKPdf	12:21:00.182	0.3 16.8	2.71	TAS	m_e
PLN	146.62	PKPdf	12:21:04.924	16.8	2.71	TAS	a_e
RETH	144.91	PKPdf	12:20:59.836	0.3 16.8	2.71	TAS	m_e
ROTZ	147.30	PKPdf	12:21:06.874	16.8	2.71	TAS	a_e
TANN	146.63	PKPdf	12:21:05.074	16.8	2.71	TAS	a_e
TNS	147.49	PKPdf	12:21:07.322	16.8	2.71	TAS	m_e
UBR	149.70	PKPdf	12:21:12.624	16.8	2.71	TAS	a_e
WLF	148.29	PKPdf	12:21:09.755	16.8	2.71	TAS	m_e

Event 81012007 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	13:58:42.07			49.0040	156.1310				33.0					74.72	77.33	m i ke	BGR
81012013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81012013
Ms	4.2		BGR	81012013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	75.22		P	14:10:18.380		22.2		4.97		TAS		10.4	0.94	m_e mb	4.8
CLZ	75.38		P	14:10:20.131		22.2		4.97		TAS		16.1	1.01	m_e mb	5.0
FLT1	74.72		P	14:10:15.746		22.2		4.97		TAS		7.8	0.90	m_e mb	4.7
GEC2	77.28		P	14:10:30.849		22.2		4.97		TAS		3.0	0.80	m_e mb	4.5
GRA1	77.15		P	14:10:30.889		22.2		4.97		TAS		15.1	0.71	m_e mb	5.2
GRA1	77.15		L	14:47:13.923						T__		140.3	18.00	a_e Ms	4.3
KAST	76.43		P	14:10:25.752		22.2		4.97		TAS		10.4	1.06	m_e mb	4.9
MOX	76.18		P	14:10:24.433		22.2		4.97		TAS		5.1	0.96	m_e mb	4.6
MOX	76.18		L	14:46:57.008						T__		110.5	20.00	a_e Ms	4.2
TNS	77.33		P	14:10:31.024		22.2		4.97		TAS		7.9	0.82	m_e mb	4.9
WET	77.23		P	14:10:30.875		22.2		4.97		TAS		8.9	0.99	m_e mb	4.8

Event 81012008 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	17:16:23.81			54.3760	-165.1730				33.0					74.68	76.26	m i ke	BGR
81012014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81012014

Ms 4.2 BGR 81012014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	74.68		P	17:27:57.518		355.6		5.05		TAS		9.1	1.03	m_e	mb 4.8
GRA1	76.26		P	17:28:07.456		355.6		5.05		TAS		43.3	1.57	m_e	mb 5.3
GRA1	76.26		L	17:56:30.894						T__		78.9	19.50	a_e	Ms 4.0
MOX	75.32		L	18:04:14.727						T__		135.2	18.00	a_e	Ms 4.3

Event 81012009 Guatemala

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	21:10:03.78			14.3060	-90.8460				33.0					84.97	88.65	m i ke	BGR
OrigID 81012015																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81012015
Ms	5.0		BGR	81012015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.43		L	21:58:43.912						T__		711.6	20.70	a_e	Ms 5.0
BSEG	85.01		L	21:59:43.100						T__		713.3	20.80	a_e	Ms 5.0
CLL	87.39		L	22:02:04.354						T__		522.1	21.00	a_e	Ms 4.9
FUR	87.36		L	21:59:53.020						T__		615.5	21.40	a_e	Ms 5.0
GEC2	88.65		L	21:58:22.056						T__		799.8	21.70	a_e	Ms 5.1
GRA1	86.84		P	21:22:44.721		279.5		5.46		TAS		6.2	0.75	m_e	mb 4.8
GRA1	86.84		L	21:59:08.022						T__		733.4	20.70	a_e	Ms 5.1
MOX	86.78		L	21:56:47.963						T__		438.1	20.40	a_e	Ms 4.8
TNS	84.97		L	21:57:51.681						T__		708.2	20.90	a_e	Ms 5.0
WET	88.04		L	21:58:04.422						T__		700.0	20.70	a_e	Ms 5.1

Event 81012010 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	21:38:25.80			47.1200	146.6600				374.0					73.85	76.14	m i ke	EMSC
OrigID 81012042																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81012016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	74.17		P	21:49:21.925		29.6		4.87		TAS		24.5	0.41	m_e	mb 5.7
CLZ	74.54		P	21:49:24.683		29.6		4.87		TAS		9.5	0.35	m_e	mb 5.3
FLT1	73.85		P	21:49:19.573		29.6		4.87		TAS		8.2	0.75	m_e	mb 4.9

GRA1 76.14 P 21:49:33.893 29.6 4.87 TAS 22.0 0.45 m_e mb 5.5

Event 81012011 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/12	22:22:06.17			49.1880	156.0480				33.0					75.99	79.11	m i ke	BGR
OrigID 81012017																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81012017
Ms	4.4		BGR	81012017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.94		P	22:34:04.346		24.2		5.04		TAS		10.0	0.69	m_e mb	5.0
FUR	78.36		P	22:34:01.578		24.2		5.04		TAS		36.1	1.07	m_e mb	5.4
GEC2	77.09		P	22:33:54.368		24.2		5.04		TAS		7.6	0.63	m_e mb	5.0
GRA1	76.96		P	22:33:53.909		24.2		5.04		TAS		26.4	0.85	m_e mb	5.4
GRA1	76.96		L	23:08:31.448						T__		139.9	19.50	a_e Ms	4.3
MANZ	76.47		P	22:33:50.761		24.2		5.04		TAS		1.9	1.00	m_e mb	4.2
MOX	75.99		L	23:13:27.845						T__		202.0	18.70	a_e Ms	4.5
RJOB	78.35		P	22:34:01.688		24.2		5.04		TAS		9.4	0.84	m_e mb	5.0
ROTZ	76.64		P	22:33:51.739		24.2		5.04		TAS		2.2	0.93	m_e mb	4.3
TNS	77.14		P	22:33:54.542		24.2		5.04		TAS		20.8	0.68	m_e mb	5.4
UBR	79.11		P	22:34:05.467		24.2		5.04		TAS		8.0	0.75	m_e mb	4.8
WET	77.04		P	22:33:54.326		24.2		5.04		TAS		13.1	0.84	m_e mb	5.1

Event 81013002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/13	00:13:46.10			-13.6700	167.3000				208.0					137.07	139.08	m i ke	EMSC
OrigID 81013034																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.9		BGR	81013008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	137.07		PKPdf	00:32:44.259		37.0		1.50		TAS				m_e	
CLL	137.10		PKPdf	00:32:44.321		37.0		1.50		TAS				m_e	
CLZ	137.65		PKPdf	00:32:45.429		37.0		1.50		TAS				m_e	
GRA1	139.08		PKPdf	00:32:48.402		37.0		1.50		TAS				m_e	
GRA1	139.08		L	01:31:52.968						T__		168.4	19.90	a_e Ms	4.8
MOX	138.16		L	01:36:13.104						T__		277.8	19.90	a_e Ms	5.0
RETH	137.24		PKPdf	00:32:44.568		37.0		1.50		TAS				m_e	

Event 81013003 Northern Molucca Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/13	04:34:16.30			1.4800	125.3800				123.0					102.22	106.52	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms	4.5		BGR	81013009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	106.52		L	05:29:48.781						T__		154.8	18.30	a_e	Ms 4.6
BRG	102.22		Pdiff	04:47:57.404						T__				m_e	
GEC2	102.98		Pdiff	04:48:00.885						T__				m_e	
GRA1	104.25		Pdiff	04:48:07.793						T__				m_e	
GRA1	104.25		L	05:37:58.978						T__		159.5	19.50	a_e	Ms 4.6
MOX	103.69		L	05:37:04.269						T__		136.1	18.70	a_e	Ms 4.5
TANN	103.26		Pdiff	04:48:01.978						T__				m_e	

Event 81013004 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/13	11:09:37.72			52.3450	152.2890				33.0				30	68.15	75.25	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	6.9		BGR	81013010
MBB	7.2		BGR	81013010
Ms	5.7		BGR	81013010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	75.10		P	11:21:14.083	-0.2	23.7		5.94		TAS		1024.2	1.09	a_e	MBB 7.0
BRG	71.30		P	11:20:52.178	-0.3	23.7		5.94		TAS		871.4	1.12	m_e	mb 6.8
BSEG	69.44		P	11:20:41.214	0.3	23.7		5.94		TAS		951.8	1.11	m_e	mb 6.9
BUG	72.47		P	11:20:58.833	-0.3	23.7		5.94		TAS		1276.0	1.26	a_e	mb 6.9
CLL	71.16		P	11:20:51.183	-0.1	23.7		5.94		TAS		1731.7	1.00	m_e	MBB 7.3
CLZ	71.35		P	11:20:52.888	0.2	23.7		5.94		TAS		2311.2	1.13	m_e	MBB 7.4
FLT1	70.69		P	11:20:48.111	0.3	23.7		5.94		TAS		1376.9	1.09	m_e	mb 7.0
FUR	74.49		P	11:21:11.083	0.3	23.7		5.94		TAS		2082.1	1.11	m_e	MBB 7.2
GEC2	73.21		P	11:21:03.733	-0.8	23.7		5.94		TAS		718.3	1.05	a_e	MBB 7.0
GOR1	70.07		P	11:20:45.219	-0.0	23.7		5.94		TAS		2650.6	1.34	m_e	mb 7.2
GRA1	73.11		P	11:21:03.156	0.5	23.7		5.94		TAS		994.0	1.66	m_e	mb 6.7
GRA1	73.11		L	11:52:07.989						T__		4211.6	21.30	a_e	Ms 5.7

GTTG	71.72	P	11:20:54.933	-0.2	23.7	5.94	TAS	972.0	1.18	a_e	mb	6.8
IBBN	71.55	P	11:20:53.390	-0.5	23.7	5.94	TAS	1393.8	1.16	m_e	mb	7.0
KAST	72.42	P	11:20:58.731	-0.2	23.7	5.94	TAS	1295.3	1.25	m_e	mb	6.9
MANZ	72.60	P	11:21:00.023	0.2	23.7	5.94	TAS	201.6	1.11	m_e	mb	6.2
MOX	72.13	P	11:20:57.158	0.1	23.7	5.94	TAS	1050.0	1.12	m_e	MBB	7.1
MOX	72.13	L	11:53:30.803				T__	4559.5	20.50	a_e	Ms	5.7
NEUB	71.59	P	11:20:53.753	-0.1	23.7	5.94	TAS	1548.7	1.14	m_e	mb	7.0
NRDL	70.82	P	11:20:49.313	0.1	23.7	5.94	TAS	1009.9	1.17	m_e	mb	6.8
PLN	72.13	P	11:20:57.309	0.0	23.7	5.94	TAS	1181.3	1.19	m_e	mb	6.9
RETH	70.77	P	11:20:49.041	-0.0	23.7	5.94	TAS	1614.5	1.33	m_e	mb	7.0
RGN	68.15	P	11:20:33.495	-0.0	23.7	5.94	TAS	3362.1	1.05	m_e	mb	7.5
RJOB	74.47	P	11:21:11.322	-0.5	23.7	5.94	TAS	663.4	1.08	m_e	mb	6.6
ROTZ	72.78	P	11:21:01.265	1.2	23.7	5.94	TAS	332.2	1.18	m_e	mb	6.3
RUE	69.90	P	11:20:44.091	-0.2	23.7	5.94	TAS	2635.4	1.06	m_e	mb	7.3
TANN	72.12	P	11:20:57.165	-0.1	23.7	5.94	TAS	1253.1	1.49	m_e	mb	6.8
TNS	73.32	P	11:21:04.049	0.0	23.7	5.94	TAS	861.2	1.07	m_e	MBB	7.0
UBBA	72.38	P	11:20:58.419	-0.1	23.7	5.94	TAS	1812.8	1.55	m_e	mb	7.0
UBR	75.25	P	11:21:15.222		23.7	5.94	TAS	1473.1	1.24	m_e	MBB	7.1
WET	73.16	P	11:21:03.810	0.2	23.7	5.94	TAS	1635.5	1.06	m_e	MBB	7.3
WLF	74.38	P	11:21:11.634	0.1	23.7	5.94	TAS	900.7	1.21	m_e	mb	6.7

Event 81014003 Kyrgyzstan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/14	05:15:58.20			39.3100	72.1800				12.0			8		42.61	44.71	m i ke	EMSC
81014035																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	81014009
Ms	3.8		BGR	81014009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BSEG	43.52	P		05:24:01.929		79.7		8.36		TAS		10.3	0.74	m_e	mb	4.6
FLT1	43.16	P		05:23:58.302		79.7		8.36		TAS		11.1	0.76	m_e	mb	4.7
FUR	43.84	P		05:24:05.159		79.7		8.36		TAS		13.9	0.74	m_e	mb	4.8
GRA1	43.58	P		05:24:02.944		79.7		8.36		TAS		15.5	1.04	m_e	mb	4.7
GRA1	43.58	L		05:41:54.592						T__		157.2	20.90	a_e	Ms	3.9
GTTG	44.06	P		05:24:06.299		79.7		8.36		TAS		16.9	0.90	m_e	mb	4.8
MOX	43.17	L		05:41:32.392						T__		106.7	21.90	a_e	Ms	3.7
NRDL	43.83	P		05:24:04.300		79.7		8.36		TAS		11.6	0.88	m_e	mb	4.6
UBR	44.71	P		05:24:11.638		79.7		8.36		TAS		20.6	1.05	m_e	mb	5.0
WET	42.61	P		05:23:54.679	0.6	79.7		8.36		TAS		12.2	1.05	m_e	mb	4.6

Event 81015003 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/14	23:53:30.05			69.4150	-158.3180				33.0			27		56.68	62.98	m i k e	BGR
81015009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81015009
Ms	4.1		BGR	81015009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	62.16		P	00:03:45.449		355.8		6.82		TAS		15.2	0.85	m_e	mb 5.2
BFO	62.16		L	00:34:24.883						T__		125.8	19.20	a_e	Ms 4.1
BRG	59.89		P	00:03:30.566	0.1	355.8		6.82		TAS		19.2	0.74	m_e	mb 5.2
BSEG	56.68		P	00:03:08.560	-0.2	355.8		6.82		TAS		14.8	0.80	m_e	mb 5.1
BSEG	56.68		L	00:29:29.509						T__		132.6	20.10	a_e	Ms 4.0
BUG	59.00		P	00:03:23.805	0.2	355.8		6.82		TAS		56.7	1.54	m_e	mb 5.4
CLL	59.42		P	00:03:26.958	-0.2	355.8		6.82		TAS		25.7	1.17	m_e	mb 5.1
CLL	59.42		L	00:30:42.935						T__		130.6	20.30	a_e	Ms 4.0
CLZ	58.77		P	00:03:23.113	0.1	355.8		6.82		TAS		50.1	0.74	m_e	mb 5.6
FLT1	58.33		P	00:03:19.290	-0.3	355.8		6.82		TAS		11.7	0.70	a_e	mb 5.0
FUR	62.49		P	00:03:47.989		355.8		6.82		TAS		26.8	0.73	m_e	mb 5.6
FUR	62.49		L	00:36:14.991						T__		160.5	19.10	a_e	Ms 4.2
GEC2	61.91		P	00:03:44.520	0.1	355.8		6.82		TAS		18.2	0.83	m_e	mb 5.3
GEC2	61.91		L	00:36:59.210						T__		167.9	19.00	a_e	Ms 4.2
GRA1	60.96		P	00:03:38.169	-0.4	355.8		6.82		TAS		25.6	0.93	m_e	mb 5.0
GRA1	60.96		L	00:31:48.508						T__		132.5	20.50	a_e	Ms 4.1
GTTG	59.05		P	00:03:24.971	-0.1	355.8		6.82		TAS		34.1	0.72	m_e	mb 5.5
IBBN	58.16		P	00:03:18.876	-0.4	355.8		6.82		TAS		30.1	0.68	m_e	mb 5.4
KAST	59.30		P	00:03:26.418	-0.1	355.8		6.82		TAS		11.9	0.74	m_e	mb 5.0
MANZ	60.71		P	00:03:35.893	0.3	355.8		6.82		TAS		5.1	1.25	m_e	mb 4.2
MOX	60.03		P	00:03:31.346	0.0	355.8		6.82		TAS		14.0	0.77	m_e	mb 5.1
MOX	60.03		L	00:32:05.640						T__		131.9	22.00	a_e	Ms 4.0
NEUB	59.49		P	00:03:27.581	-0.1	355.8		6.82		TAS		54.7	1.17	m_e	mb 5.5
NRDL	58.11		P	00:03:18.056	0.3	355.8		6.82		TAS		33.0	0.90	m_e	mb 5.4
PLN	60.21		P	00:03:32.583	0.4	355.8		6.82		TAS		14.6	0.65	m_e	mb 5.2
RETH	57.83		P	00:03:16.581	-0.5	355.8		6.82		TAS		15.9	0.79	m_e	mb 5.1
RJOB	62.98		P	00:03:51.690		355.8		6.82		TAS		25.3	0.78	m_e	mb 5.4
ROTZ	60.93		P	00:03:37.608	0.3	355.8		6.82		TAS		3.3	0.68	m_e	mb 4.3
STU	61.77		P	00:03:43.213	-0.3	355.8		6.82		TAS		90.2	1.33	m_e	mb 5.8
TNS	60.28		P	00:03:33.199	0.4	355.8		6.82		TAS		13.5	0.76	m_e	mb 5.0
TNS	60.28		L	00:33:18.134						T__		179.5	20.50	a_e	Ms 4.2
UBBA	59.78		P	00:03:29.445	-0.1	355.8		6.82		TAS		14.2	0.69	m_e	mb 5.1
UBR	62.91		P	00:03:50.777		355.8		6.82		TAS		16.6	0.63	m_e	mb 5.3
WET	61.58		P	00:03:42.247	-0.2	355.8		6.82		TAS		11.9	0.73	m_e	mb 5.2
WET	61.58		L	00:35:35.162						T__		121.0	18.60	a_e	Ms 4.1
WLF	60.69		P	00:03:35.979	-0.1	355.8		6.82		TAS		26.2	0.95	m_e	mb 5.0

Event 81015004 Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/15	01:32:07.29			54.4760	158.7690				33.0			28		68.85	74.83	m i ke	BGR
OrigID 81015010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	81015010
MBB	6.0		BGR	81015010
Ms	4.2		BGR	81015010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	74.58		P	01:43:40.565	-0.3	19.1		5.97		TAS		37.6	0.80	m_e	MBB	5.8
BFO	74.58		L	02:16:12.537						T__		117.6	19.20	a_e	Ms	4.2
BRG	70.98		P	01:43:19.237	0.0	19.1		5.97		TAS		30.9	0.74	m_e	mb	5.5
BSEG	68.85		P	01:43:06.794	-0.1	19.1		5.97		TAS		60.9	0.89	m_e	mb	5.8
BSEG	68.85		L	02:16:14.995						T__		132.8	20.90	a_e	Ms	4.2
BUG	71.80		P	01:43:24.364	0.1	19.1		5.97		TAS		81.4	0.92	m_e	mb	5.8
CLL	70.78		P	01:43:18.013	-0.2	19.1		5.97		TAS		143.3	0.93	m_e	MBB	6.2
CLL	70.78		L	02:07:31.457						T__		248.3	19.10	a_e	Ms	4.5
CLZ	70.83		P	01:43:18.993	0.0	19.1		5.97		TAS		344.0	1.26	m_e	mb	6.3
FLT1	70.19		P	01:43:14.243	0.3	19.1		5.97		TAS		45.8	0.84	m_e	mb	5.6
FUR	74.12		P	01:43:38.255		19.1		5.97		TAS		75.3	0.88	m_e	mb	5.7
FUR	74.12		L	02:15:12.939						T__		118.4	21.30	a_e	Ms	4.2
GEC2	72.93		P	01:43:31.170	-0.1	19.1		5.97		TAS		30.9	0.66	m_e	mb	5.6
GEC2	72.93		L	02:17:56.947						T__		154.6	21.30	a_e	Ms	4.2
GOR1	69.55		P	01:43:11.214	-0.3	19.1		5.97		TAS		136.5	1.17	m_e	mb	6.0
GRA1	72.68		P	01:43:30.170	0.0	19.1		5.97		TAS		92.6	0.82	m_e	mb	6.0
GRA1	72.68		L	02:18:58.488						T__		57.9	19.20	a_e	Ms	3.9
GTTG	71.19		P	01:43:21.035	-0.3	19.1		5.97		TAS		58.9	0.93	m_e	mb	5.7
IBBN	70.89		P	01:43:19.195	0.4	19.1		5.97		TAS		61.9	0.66	m_e	mb	5.9
KAST	71.82		P	01:43:24.552	-0.3	19.1		5.97		TAS		54.6	0.86	m_e	mb	5.7
MANZ	72.22		P	01:43:26.951	-0.1	19.1		5.97		TAS		8.3	0.95	m_e	mb	4.8
MOX	71.70		P	01:43:23.888	0.1	19.1		5.97		TAS		47.6	0.84	m_e	MBB	6.0
MOX	71.70		L	02:15:22.701						T__		84.0	20.60	a_e	Ms	4.0
NEUB	71.15		P	01:43:20.323	-0.1	19.1		5.97		TAS		52.8	0.78	m_e	mb	5.7
NRDL	70.26		P	01:43:14.938	0.3	19.1		5.97		TAS		45.2	0.90	m_e	mb	5.6
PLN	71.73		P	01:43:24.217	0.0	19.1		5.97		TAS		76.4	1.02	m_e	mb	5.8
RETH	70.17		P	01:43:14.604	0.0	19.1		5.97		TAS		101.3	1.21	m_e	mb	5.8
RJOB	74.18		P	01:43:38.841		19.1		5.97		TAS		33.7	0.77	m_e	mb	5.4
ROTZ	72.40		P	01:43:28.243	0.4	19.1		5.97		TAS		11.6	0.94	m_e	mb	5.0
RUE	69.51		P	01:43:10.816	-0.6	19.1		5.97		TAS		133.5	0.78	m_e	mb	6.1
TNS	72.75		P	01:43:30.195	0.2	19.1		5.97		TAS		41.0	0.72	m_e	mb	5.7
TNS	72.75		L	02:18:58.492						T__		123.4	21.80	a_e	Ms	4.1
UBBA	71.87		P	01:43:24.816	0.1	19.1		5.97		TAS		18.4	0.67	m_e	mb	5.3
UBR	74.83		P	01:43:42.220		19.1		5.97		TAS		56.6	0.86	m_e	mb	5.6
WET	72.84		P	01:43:30.999	-0.4	19.1		5.97		TAS		57.0	0.77	m_e	MBB	6.0

WET	72.84	L	02:17:16.997						T__	153.0	21.60	a_e	Ms	4.2
WLF	73.71	P	01:43:35.638	0.4	19.1		5.97		TAS	21.5	0.84	m_e	mb	5.2

Event 81015005 Off west coast of northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/15	16:26:47.67		3.1190	95.6920					33.0			20		82.38	86.60	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81015011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	85.93		P	16:39:24.013		92.2		5.08		TAS		9.5	0.65	m_e	mb	5.1
BRG	82.38		P	16:39:06.261	0.1	92.2		5.08		TAS		7.3	0.89	m_e	mb	4.8
BSEG	84.77		P	16:39:18.419	-0.2	92.2		5.08		TAS		17.4	0.80	m_e	mb	5.3
BUG	86.60		P	16:39:27.702	0.2	92.2		5.08		TAS		13.5	0.65	m_e	mb	5.2
CLL	83.00		P	16:39:09.049	0.4	92.2		5.08		TAS		5.5	0.81	m_e	mb	4.8
CLZ	84.67		P	16:39:17.812	-0.2	92.2		5.08		TAS		9.5	0.65	m_e	mb	5.2
GEC2	82.39		P	16:39:06.524		92.2		5.08		TAS		9.8	0.80	m_e	mb	5.0
GRA1	84.05		P	16:39:15.337		92.2		5.08		TAS		12.2	0.83	m_e	mb	5.2
GRA1	84.05		L	17:23:31.181						T__		83.9	18.60	a_e		
IBBN	86.29		P	16:39:26.159	-0.1	92.2		5.08		TAS		18.2	0.64	m_e	mb	5.3
KAST	85.88		P	16:39:24.027	0.3	92.2		5.08		TAS		6.7	0.87	m_e	mb	4.8
MANZ	83.49		P	16:39:12.325		92.2		5.08		TAS		2.8	1.00	m_e	mb	4.5
MOX	83.84		P	16:39:13.551	-0.3	92.2		5.08		TAS		5.5	0.88	m_e	mb	4.8
MOX	83.84		L	17:20:48.943						T__		94.7	19.80	a_e		
NRDL	84.85		P	16:39:18.813	-0.0	92.2		5.08		TAS		43.1	1.56	m_e	mb	5.4
PLN	83.49		P	16:39:11.881	-0.3	92.2		5.08		TAS		4.3	0.81	m_e	mb	4.7
RJOB	82.92		P	16:39:08.720		92.2		5.08		TAS		9.6	0.73	m_e	mb	5.1
ROTZ	83.42		P	16:39:11.905		92.2		5.08		TAS		1.6	0.76	m_e	mb	4.3
RUE	82.61		P	16:39:07.197	-0.4	92.2		5.08		TAS		29.5	0.84	m_e	mb	5.5
TNS	85.86		P	16:39:24.229	-0.1	92.2		5.08		TAS		9.8	0.84	m_e	mb	5.0
UBR	84.73		P	16:39:18.126		92.2		5.08		TAS		10.3	0.72	m_e	mb	5.2
WET	82.95		P	16:39:09.310		92.2		5.08		TAS		7.5	0.75	m_e	mb	5.0

Event 81015007 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/15	19:35:56.10		-6.0600	151.2700					10.0			21		122.98	127.58	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID

Ms	5.0	BGR	81015013													
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	122.98		PKPdf	19:54:52.966	-0.0	57.0		2.02		TAS				m_e		
BUG	125.83		PKPdf	19:54:59.986	-0.2	57.0		2.02		TAS				m_e		
CLL	123.19		PKPdf	19:54:53.381	0.0	57.0		2.02		TAS				m_e		
CLZ	124.13		PKPdf	19:54:55.809	0.2	57.0		2.02		TAS				m_e		
FLT1	123.40		PKPdf	19:54:54.012	-0.0	57.0		2.02		TAS				m_e		
GEC2	124.31		PKPdf	19:54:55.166		57.0		2.02		TAS				m_e		
GRA1	125.09		PKPdf	19:54:56.981		57.0		2.02		TAS				m_e		
GRA1	125.09		L	20:48:52.352						T__		299.9	21.40	a_e Ms	4.9	
GTTG	124.51		PKPdf	19:54:56.381	-0.2	57.0		2.02		TAS				m_e		
IBBN	125.01		PKPdf	19:54:57.231	0.1	57.0		2.02		TAS				m_e		
KAST	125.47		PKPdf	19:54:58.258	-0.0	57.0		2.02		TAS				m_e		
MANZ	124.46		PKPdf	19:54:55.745	-0.3	57.0		2.02		TAS				m_e		
MOX	124.29		PKPdf	19:54:55.334	0.0	57.0		2.02		TAS				m_e		
MOX	124.29		L	20:49:36.269						T__		452.7	21.30	a_e Ms	5.1	
NRDL	123.82		PKPdf	19:54:55.095	0.1	57.0		2.02		TAS				m_e		
PLN	124.12		PKPdf	19:54:54.956	0.3	57.0		2.02		TAS				m_e		
RETH	124.00		PKPdf	19:54:55.030	0.3	57.0		2.02		TAS				m_e		
RJOB	125.45		PKPdf	19:54:57.054		57.0		2.02		TAS				m_e		
ROTZ	124.54		PKPdf	19:54:55.817		57.0		2.02		TAS				m_e		
STU	126.70		PKPdf	19:55:00.556		57.0		2.02		TAS				m_e		
UBR	126.92		PKPdf	19:55:00.223		57.0		2.02		TAS				m_e		
WET	124.57		PKPdf	19:54:56.097		57.0		2.02		TAS				m_e		
WLF	127.58		PKPdf	19:55:02.355		57.0		2.02		TAS				m_e		

Event 81015006 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/15	19:40:31.70			-6.0500	151.1500				10.0					122.71	127.36	m i ke	EMSC

Magnitude Err Nsta Author OrigID
 Ms 5.1 BGR 81015012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	127.36		L	20:57:43.220						T__		532.0	18.00	a_e Ms	5.3	
BRG	122.92		PKPdf	19:59:28.863		51.4		0.95		TAS				m_e		
BSEG	122.71		PKPdf	19:59:28.106		51.4		0.95		TAS				m_e		
BSEG	122.71		L	20:53:50.007						T__		587.4	18.10	a_e Ms	5.3	
CLL	123.13		PKPdf	19:59:28.646		51.4		0.95		TAS				m_e		
CLL	123.13		L	20:51:44.001						T__		455.6	20.20	a_e Ms	5.1	
CLZ	124.06		PKPdf	19:59:30.975		51.4		0.95		TAS				m_e		
FUR	125.94		L	20:50:33.748						T__		422.2	20.30	a_e Ms	5.1	
GEC2	124.23		PKPdf	19:59:31.099		51.4		0.95		TAS				m_e		

GEC2	124.23	L	20:52:36.714			T__	367.3	20.10	a_e Ms	5.0
GRA1	125.02	PKPdf	19:59:32.213	51.4	0.95	TAS			m_e	
GRA1	125.02	L	20:54:44.099			T__	460.5	19.60	a_e Ms	5.2
GTTG	124.45	PKPdf	19:59:31.494	51.4	0.95	TAS			m_e	
IBBN	124.95	PKPdf	19:59:32.036	51.4	0.95	TAS			m_e	
KAST	125.40	PKPdf	19:59:33.341	51.4	0.95	TAS			m_e	
MANZ	124.39	PKPdf	19:59:31.466	51.4	0.95	TAS			m_e	
MOX	124.23	L	20:49:36.281			T__	452.7	21.30	a_e Ms	5.1
NRDL	123.76	PKPdf	19:59:30.090	51.4	0.95	TAS			m_e	
PLN	124.05	PKPdf	19:59:30.690	51.4	0.95	TAS			m_e	
TNS	126.05	PKPdf	19:59:34.752	51.4	0.95	TAS			m_e	
TNS	126.05	L	20:52:41.290			T__	391.3	21.00	a_e Ms	5.1
UBR	126.85	PKPdf	19:59:35.651	51.4	0.95	TAS			m_e	
WET	124.50	PKPdf	19:59:31.533	51.4	0.95	TAS			m_e	
WET	124.50	L	20:53:56.105			T__	361.8	19.40	a_e Ms	5.0

Event 81016002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	00:28:11.90			-21.7900	169.5500				10.0			27		144.24	149.55	m i ke	EMSC
81016034																	

Magnitude Err Nsta Author OrigID
Ms 6.5 BGR 81016008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.55		PKPbc	00:47:58.602		39.4		2.87		TAS				m_e	
BRG	145.27		PKPbc	00:47:47.042	0.2	39.4		2.87		TAS				m_e	
BSEG	144.24		PKPbc	00:47:43.115	-0.2	39.4		2.87		TAS				m_e	
BUG	147.35		PKPbc	00:47:52.691	0.1	39.4		2.87		TAS				m_e	
CLL	145.34		PKPbc	00:47:46.946	-0.2	39.4		2.87		TAS				m_e	
CLZ	145.93		PKPbc	00:47:49.235	-0.3	39.4		2.87		TAS				m_e	
FLT1	145.22		PKPbc	00:47:46.345	-0.3	39.4		2.87		TAS				m_e	
FUR	148.45		PKPbc	00:47:56.222		39.4		2.87		TAS				m_e	
GEC2	146.85		PKPbc	00:47:52.046	-0.8	39.4		2.87		TAS				m_e	
GOR1	144.67		PKPbc	00:47:44.633	-0.0	39.4		2.87		TAS				m_e	
GRA1	147.31		PKPbc	00:47:53.234	-0.7	39.4		2.87		TAS				m_e	
GRA1	147.31		L	02:01:49.670						T__	8179.9	19.60		a_e Ms	6.5
GTTG	146.32		PKPbc	00:47:50.529	0.0	39.4		2.87		TAS				a_e	
IBBN	146.45		PKPbc	00:47:50.479	0.5	39.4		2.87		TAS				a_e	
KAST	147.16		PKPbc	00:47:52.438	1.6	39.4		2.87		TAS				m_e	
MANZ	146.71		PKPbc	00:47:51.685	0.3	39.4		2.87		TAS				m_e	
MOX	146.41		PKPbc	00:47:50.401	1.0	39.4		2.87		TAS				m_e	
MOX	146.41		L	02:01:39.176						T__	8362.5	19.00		a_e Ms	6.5
NEUB	145.92		PKPbc	00:47:49.026	1.2	39.4		2.87		TAS				m_e	
NRDL	145.50		PKPbc	00:47:47.626	-0.5	39.4		2.87		TAS				m_e	

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PLN	146.31	PKPbc	00:47:50.305	0.3	39.4	2.87	TAS	m_e
RETH	145.56	PKPbc	00:47:47.650	0.0	39.4	2.87	TAS	m_e
RJOB	148.07	PKPbc	00:47:54.867		39.4	2.87	TAS	m_e
ROTZ	146.84	PKPbc	00:47:51.950	0.2	39.4	2.87	TAS	m_e
TNS	147.96	PKPbc	00:47:54.929	0.2	39.4	2.87	TAS	m_e
UBBA	146.90	PKPbc	00:47:51.669	1.0	39.4	2.87	TAS	m_e
UBR	149.33	PKPbc	00:47:58.229		39.4	2.87	TAS	a_e
WET	147.01	PKPbc	00:47:52.549	-0.2	39.4	2.87	TAS	m_e
WLF	149.23	PKPbc	00:47:58.580	-0.0	39.4	2.87	TAS	m_e

Event 81016003 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	01:03:42.30			-21.6500	169.6100				10.0			29		144.03	149.45	m i ke	EMSC
81016035																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.9		BGR	81016009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.45		PKPdf	01:23:30.002	-0.8	33.8		0.95		TAS				a_e	
BRG	145.17		PKPdf	01:23:18.252	1.0	33.8		0.95		TAS				a_e	
BSEG	144.13		PKPdf	01:23:14.352	-0.2	33.8		0.95		TAS				a_e	
BSEG	144.13		L	02:27:07.942						T__	39770.1	21.20		a_e Ms	7.2
BUG	147.24		PKPdf	01:23:25.352	0.1	33.8		0.95		TAS				a_e	
CLL	145.23		PKPdf	01:23:18.152	0.2	33.8		0.95		TAS				a_e	
CLL	145.23		L	02:31:29.544						T__	21262.7	20.50		a_e Ms	6.9
CLZ	145.83		PKPdf	01:23:20.767	1.0	33.8		0.95		TAS				m_e	
FLT1	145.12		PKPdf	01:23:17.602	0.3	33.8		0.95		TAS				m_e	
FUR	148.35		PKPdf	01:23:27.652	-0.7	33.8		0.95		TAS				a_e	
FUR	148.35		L	02:32:58.435						T__	18817.7	20.40		a_e Ms	6.9
GEC2	146.76		PKPdf	01:23:23.302	-0.8	33.8		0.95		TAS				a_e	
GEC2	146.76		L	02:31:56.308						T__	26953.2	20.60		a_e Ms	7.0
GOR1	144.56		PKPdf	01:23:16.039	-0.0	33.8		0.95		TAS				m_e	
GRA1	147.21		PKPdf	01:23:24.652	-0.0	33.8		0.95		TAS				a_e	
GRA1	147.21		L	02:31:05.669						T__	12864.6	21.60		a_e Ms	6.7
GTTG	146.22		PKPdf	01:23:21.602	-0.3	33.8		0.95		TAS				a_e	
IBBN	146.34		PKPdf	01:23:21.875	0.4	33.8		0.95		TAS				m_e	
KAST	147.05		PKPdf	01:23:23.852	-0.1	33.8		0.95		TAS				a_e	
MANZ	146.61		PKPdf	01:23:22.902	0.1	33.8		0.95		TAS				a_e	
MOX	146.31		PKPdf	01:23:22.552	0.2	33.8		0.95		TAS				a_e	
MOX	146.31		L	02:36:20.156						T__	11282.0	21.30		a_e Ms	6.6
NEUB	145.81		PKPdf	01:23:20.352	0.3	33.8		0.95		TAS				m_e	
NRDL	145.39		PKPdf	01:23:18.852	-0.2	33.8		0.95		TAS				a_e	
PLN	146.21		PKPdf	01:23:21.602	0.3	33.8		0.95		TAS				a_e	
RETH	145.44		PKPdf	01:23:19.002	0.0	33.8		0.95		TAS				a_e	

RJOB	147.98	PKPdf	01:23:26.202		33.8	0.95	TAS										a_e
ROTZ	146.74	PKPdf	01:23:23.302	0.4	33.8	0.95	TAS										a_e
RUE	144.03	PKPdf	01:23:16.343	-0.0	33.8	0.95	TAS										m_e
STU	148.75	PKPdf	01:23:28.602	-0.1	33.8	0.95	TAS										a_e
TNS	147.85	PKPdf	01:23:26.252	0.3	33.8	0.95	TAS										a_e
TNS	147.85	L	02:32:46.015				T__					20906.6	21.20				a_e Ms 6.9
UBBA	146.79	PKPdf	01:23:23.202	0.3	33.8	0.95	TAS										a_e
UBR	149.23	PKPdf	01:23:29.552		33.8	0.95	TAS										a_e
WET	146.91	PKPdf	01:23:23.852	-0.1	33.8	0.95	TAS										a_e
WET	146.91	L	02:29:00.834				T__					18295.4	21.60				a_e Ms 6.8
WLF	149.12	PKPdf	01:23:29.952	0.2	33.8	0.95	TAS										a_e

Event 81016004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	01:14:36.00			-21.6900	169.6500				10.0				27	144.18	149.50	m i ke	EMSC
	81016036																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.50		PKPbc	01:34:23.348		39.2		2.86		TAS					a_e
BRG	145.22		PKPbc	01:34:11.698	0.2	39.2		2.86		TAS					a_e
BSEG	144.18		PKPbc	01:34:07.798	-0.1	39.2		2.86		TAS					a_e
BUG	147.28		PKPbc	01:34:18.798	-0.2	39.2		2.86		TAS					a_e
CLL	145.29		PKPbc	01:34:11.598	0.4	39.2		2.86		TAS					a_e
CLZ	145.88		PKPbc	01:34:13.948	0.3	39.2		2.86		TAS					a_e
FLT1	145.17		PKPbc	01:34:11.048	-0.4	39.2		2.86		TAS					a_e
FUR	148.41		PKPbc	01:34:20.948		39.2		2.86		TAS					a_e
GEC2	146.81		PKPbc	01:34:16.748	-0.6	39.2		2.86		TAS					a_e
GRA1	147.26		PKPbc	01:34:18.048	-0.6	39.2		2.86		TAS					a_e
GTTG	146.27		PKPbc	01:34:15.098	0.1	39.2		2.86		TAS					a_e
IBBN	146.39		PKPbc	01:34:15.048	1.1	39.2		2.86		TAS					a_e
KAST	147.10		PKPbc	01:34:17.398	0.2	39.2		2.86		TAS					a_e
MANZ	146.66		PKPbc	01:34:16.398	0.4	39.2		2.86		TAS					a_e
MOX	146.36		PKPbc	01:34:15.198	0.6	39.2		2.86		TAS					a_e
NEUB	145.87		PKPbc	01:34:13.698	0.3	39.2		2.86		TAS					a_e
NRDL	145.44		PKPbc	01:34:12.248	0.3	39.2		2.86		TAS					a_e
PLN	146.26		PKPbc	01:34:15.048	-0.5	39.2		2.86		TAS					m_e
RETH	145.50		PKPbc	01:34:12.348	-0.5	39.2		2.86		TAS					a_e
RJOB	148.03		PKPbc	01:34:19.648		39.2		2.86		TAS					a_e
ROTZ	146.79		PKPbc	01:34:16.898	0.1	39.2		2.86		TAS					a_e
STU	148.80		PKPbc	01:34:21.998	-0.6	39.2		2.86		TAS					a_e
TNS	147.90		PKPbc	01:34:19.598	0.4	39.2		2.86		TAS					a_e
UBBA	146.84		PKPbc	01:34:16.798	0.4	39.2		2.86		TAS					a_e
UBR	149.28		PKPbc	01:34:22.948		39.2		2.86		TAS					a_e

WET	146.97	PKPbc	01:34:17.348	-0.1	39.2	2.86	TAS	a_e
WLF	149.18	PKPbc	01:34:22.648	-0.0	39.2	2.86	TAS	a_e

Event 81016005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	01:29:03.90			-21.7800	169.5000				10.0			15		145.19	149.21	m i ke	EMSC
81016037																	

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
BRG	145.24		PKPbc	01:48:38.803		39.5		3.05		TAS				m_e	
CLL	145.31		PKPbc	01:48:38.919	-0.4	39.5		3.05		TAS				m_e	
FLT1	145.19		PKPbc	01:48:38.688	0.5	39.5		3.05		TAS				m_e	
GEC2	146.82		PKPbc	01:48:43.759		39.5		3.05		TAS				m_e	
GTTG	146.29		PKPbc	01:48:42.261	0.2	39.5		3.05		TAS				m_e	
IBBN	146.42		PKPbc	01:48:42.697	0.1	39.5		3.05		TAS				m_e	
KAST	147.13		PKPbc	01:48:45.137	0.3	39.5		3.05		TAS				m_e	
MANZ	146.68		PKPbc	01:48:43.759		39.5		3.05		TAS				m_e	
MOX	146.38		PKPbc	01:48:42.606		39.5		3.05		TAS				m_e	
PLN	146.28		PKPbc	01:48:42.722		39.5		3.05		TAS				m_e	
RETH	145.53		PKPbc	01:48:40.229	-0.3	39.5		3.05		TAS				m_e	
ROTZ	146.81		PKPbc	01:48:44.105		39.5		3.05		TAS				m_e	
TNS	147.93		PKPbc	01:48:47.266		39.5		3.05		TAS				m_e	
WET	146.98		PKPbc	01:48:44.817		39.5		3.05		TAS				m_e	
WLF	149.21		PKPbc	01:48:50.834		39.5		3.05		TAS				m_e	

Event 81016006 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	01:31:23.70			-21.6000	169.7500				10.0			14		145.19	149.12	m i ke	EMSC
81016038																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.7		BGR	81016012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.19		PKPbc	01:51:00.439		39.0		2.94		TAS				m_e	
CLL	145.25		PKPbc	01:51:00.229	0.2	39.0		2.94		TAS				m_e	
CLZ	145.83		PKPbc	01:51:02.950	-0.4	39.0		2.94		TAS				m_e	
GEC2	146.78		PKPbc	01:51:05.460		39.0		2.94		TAS				m_e	
GRA1	147.22		L	02:55:09.464						T__		7729.8	18.10	a_e Ms	6.5

MANZ	146.62	PKPbc	01:51:05.460	39.0	2.94	TAS	m_e	
MOX	146.32	PKPbc	01:51:03.786	39.0	2.94	TAS	m_e	
MOX	146.32	L	02:53:34.939			T__	15066.2 19.50 a_e Ms 6.8	
NRDL	145.39	PKPbc	01:51:01.276	0.1	39.0	2.94	TAS	m_e
PLN	146.22	PKPbc	01:51:03.159	39.0	2.94	TAS	m_e	
RETH	145.45	PKPbc	01:51:00.857	0.0	39.0	2.94	TAS	m_e
RJOB	148.00	PKPbc	01:51:08.390	39.0	2.94	TAS	m_e	
ROTZ	146.75	PKPbc	01:51:04.623	39.0	2.94	TAS	m_e	
TNS	147.86	PKPbc	01:51:08.599	39.0	2.94	TAS	m_e	
WET	146.93	PKPbc	01:51:05.670	39.0	2.94	TAS	m_e	
WLF	149.12	PKPbc	01:51:12.156	39.0	2.94	TAS	m_e	

Event 81016007 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	01:38:23.30			-21.6800	169.5800				10.0			26		144.15	149.46	m i ke	EMSC
81016039																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.1		BGR	81016013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.46		PKPbc	01:58:11.318		39.3		2.89		TAS				m_e	
BRG	145.18		PKPbc	01:57:59.352	0.3	39.3		2.89		TAS				a_e	
BSEG	144.15		PKPbc	01:57:56.444	-0.8	39.3		2.89		TAS				m_e	
BUG	147.25		PKPbc	01:58:06.161	-0.1	39.3		2.89		TAS				m_e	
CLL	145.25		PKPbc	01:57:59.604	-0.4	39.3		2.89		TAS				m_e	
CLZ	145.84		PKPbc	01:58:01.652	-0.3	39.3		2.89		TAS				m_e	
FLT1	145.13		PKPbc	01:57:58.990	0.5	39.3		2.89		TAS				m_e	
GEC2	146.77		PKPbc	01:58:05.306	-0.5	39.3		2.89		TAS				m_e	
GOR1	144.58		PKPbc	01:57:58.080	0.1	39.3		2.89		TAS				m_e	
GRA1	147.22		PKPbc	01:58:06.168	0.2	39.3		2.89		TAS				m_e	
GRA1	147.22		L	03:04:50.525						T__		2342.9	18.70	a_e Ms	6.0
GTTG	146.23		PKPbc	01:58:03.163	0.3	39.3		2.89		TAS				m_e	
IBBN	146.35		PKPbc	01:58:03.165	0.5	39.3		2.89		TAS				m_e	
KAST	147.07		PKPbc	01:58:05.370	0.3	39.3		2.89		TAS				m_e	
MANZ	146.62		PKPbc	01:58:03.174	0.6	39.3		2.89		TAS				m_e	
MOX	146.32		PKPbc	01:58:03.752	-0.7	39.3		2.89		TAS				a_e	
MOX	146.32		L	03:04:32.474						T__		4315.5	18.10	a_e Ms	6.3
NEUB	145.83		PKPbc	01:58:01.452	0.8	39.3		2.89		TAS				a_e	
NRDL	145.41		PKPbc	01:58:00.451	-0.5	39.3		2.89		TAS				m_e	
PLN	146.22		PKPbc	01:58:03.024	0.4	39.3		2.89		TAS				m_e	
RETH	145.46		PKPbc	01:57:59.756	0.0	39.3		2.89		TAS				m_e	
ROTZ	146.75		PKPbc	01:58:04.669	-0.5	39.3		2.89		TAS				m_e	
STU	148.77		PKPbc	01:58:10.242		39.3		2.89		TAS				m_e	
TNS	147.87		PKPbc	01:58:07.002	0.1	39.3		2.89		TAS				m_e	

UBBA	146.81	PKPbc	01:58:04.633	-0.4	39.3	2.89	TAS	m_e
UBR	149.24	PKPbc	01:58:10.996		39.3	2.89	TAS	m_e
WET	146.93	PKPbc	01:58:04.459	-0.7	39.3	2.89	TAS	m_e
WLF	149.14	PKPbc	01:58:11.253	0.7	39.3	2.89	TAS	m_e

Event 81016008 Northern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2018/10/16	02:10:11.14			43.0060	82.7910				33.0			28		45.39	51.19	m i ke	BGR
81016014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81016014
Ms	5.9		BGR	81016014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	50.41		P	02:19:03.550	0.4	69.1		7.74		TAS		41.2	1.38	m_e mb	5.2
BRG	46.09		P	02:18:30.099	-0.4	69.1		7.74		TAS				m_e	
BSEG	47.26		P	02:18:39.270	0.3	69.1		7.74		TAS		33.9	0.71	m_e mb	5.6
BUG	49.85		P	02:18:59.076	-0.6	69.1		7.74		TAS		42.5	1.19	m_e mb	5.2
CLL	46.52		P	02:18:33.155	-0.1	69.1		7.74		TAS		39.2	0.69	m_e mb	5.7
CLZ	47.90		P	02:18:44.074	0.3	69.1		7.74		TAS		34.4	1.26	m_e mb	5.3
FLT1	47.23		P	02:18:38.211	-0.1	69.1		7.74		TAS		27.3	0.74	m_e mb	5.5
FUR	48.66		P	02:18:51.183		69.1		7.74		TAS		37.7	0.93	m_e mb	5.4
GEC2	46.91		P	02:18:37.081	-0.4	69.1		7.74		TAS		26.8	1.31	m_e mb	5.2
GOR1	46.98		P	02:18:37.148	0.2	69.1		7.74		TAS		63.0	0.95	m_e mb	5.7
GRA1	48.13		P	02:18:46.898	0.3	69.1		7.74		TAS		35.2	0.82	m_e mb	5.5
GRA1	48.13		L	02:41:02.723						T__		13229.7	18.50	a_e Ms	6.0
GTTG	48.24		P	02:18:47.113	-0.1	69.1		7.74		TAS		52.4	0.79	m_e mb	5.7
IBBN	49.25		P	02:18:54.354	-0.7	69.1		7.74		TAS		54.6	0.62	m_e mb	5.8
KAST	49.26		P	02:18:54.656	-0.4	69.1		7.74		TAS				m_e	
MANZ	47.49		P	02:18:41.282	-0.3	69.1		7.74		TAS		7.3	1.38	m_e mb	4.6
MOX	47.56		P	02:18:41.714	-0.2	69.1		7.74		TAS		42.0	1.18	m_e mb	5.5
MOX	47.56		L	02:41:24.259						T__		10201.9	18.60	a_e Ms	5.8
NEUB	47.29		P	02:18:39.273	-0.4	69.1		7.74		TAS		38.0	0.62	m_e mb	5.7
NRDL	47.83		P	02:18:43.910	-0.6	69.1		7.74		TAS		53.4	0.97	m_e mb	5.6
PLN	47.29		P	02:18:39.593	-0.1	69.1		7.74		TAS		23.6	1.12	m_e mb	5.2
RETH	48.18		P	02:18:46.263	0.4	69.1		7.74		TAS		33.6	1.36	m_e mb	5.3
RGN	45.39		P	02:18:24.306	0.3	69.1		7.74		TAS		97.3	0.64	m_e mb	5.9
RUE	45.70		P	02:18:26.641	0.1	69.1		7.74		TAS				m_e	
STU	49.71		P	02:18:58.344	0.9	69.1		7.74		TAS		100.9	1.36	m_e mb	5.6
TNS	49.61		P	02:18:57.502	-0.1	69.1		7.74		TAS				m_e	
UBBA	48.47		P	02:18:48.337	-0.1	69.1		7.74		TAS				m_e	
UBR	49.57		P	02:18:57.751		69.1		7.74		TAS		64.7	1.27	m_e mb	5.4
WET	47.31		P	02:18:40.058	-0.2	69.1		7.74		TAS		31.4	1.21	m_e mb	5.3
WLF	51.19		P	02:19:09.514	0.1	69.1		7.74		TAS		13.9	0.76	m_e mb	5.0

Event 81016009 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	02:24:05.90			-21.9300	169.7100				10.0			25		144.42	149.74	m i ke	EMSC
OrigID 81016041																	

Magnitude	Err	Nsta	Author	OrigID
Ms 5.5		BGR		81016015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.74		PKPbc	02:43:54.924		39.3		2.96		TAS				a_e	
BRG	145.46		PKPbc	02:43:43.574	0.2	39.3		2.96		TAS				a_e	
BSEG	144.42		PKPbc	02:43:39.997	-0.1	39.3		2.96		TAS				m_e	
BUG	147.53		PKPbc	02:43:50.524	0.2	39.3		2.96		TAS				a_e	
CLL	145.53		PKPbc	02:43:43.474	0.0	39.3		2.96		TAS				m_e	
CLZ	146.12		PKPbc	02:43:45.774	-0.2	39.3		2.96		TAS				a_e	
FLT1	145.41		PKPbc	02:43:42.974	0.9	39.3		2.96		TAS				m_e	
GEC2	147.05		PKPbc	02:43:48.474		39.3		2.96		TAS				a_e	
GOR1	144.85		PKPbc	02:43:41.109	0.0	39.3		2.96		TAS				m_e	
GRA1	147.50		L	03:52:04.749						T__		554.1	19.00	a_e Ms	5.4
GTTG	146.51		PKPbc	02:43:46.824	0.0	39.3		2.96		TAS				a_e	
IBBN	146.63		PKPbc	02:43:46.774	0.3	39.3		2.96		TAS				a_e	
KAST	147.34		PKPbc	02:43:49.074	0.3	39.3		2.96		TAS				a_e	
MANZ	146.90		PKPbc	02:43:48.124	0.1	39.3		2.96		TAS				a_e	
MOX	146.60		PKPbc	02:43:46.956	0.3	39.3		2.96		TAS				m_e	
MOX	146.60		L	03:49:00.557						T__		823.4	18.50	a_e Ms	5.5
NEUB	146.10		PKPbc	02:43:45.524	1.1	39.3		2.96		TAS				a_e	
NRDL	145.68		PKPbc	02:43:44.010	-0.3	39.3		2.96		TAS				m_e	
PLN	146.50		PKPbc	02:43:46.724	0.3	39.3		2.96		TAS				a_e	
RETH	145.74		PKPbc	02:43:44.102	-0.3	39.3		2.96		TAS				m_e	
ROTZ	147.03		PKPbc	02:43:48.524	-0.1	39.3		2.96		TAS				a_e	
STU	149.04		PKPbc	02:43:53.724		39.3		2.96		TAS				a_e	
TNS	148.15		PKPbc	02:43:51.479	-0.1	39.3		2.96		TAS				m_e	
UBBA	147.09		PKPbc	02:43:48.524	1.5	39.3		2.96		TAS				a_e	
UBR	149.52		PKPbc	02:43:54.574		39.3		2.96		TAS				a_e	
WET	147.20		PKPbc	02:43:48.974	-1.0	39.3		2.96		TAS				a_e	
WLF	149.42		PKPbc	02:43:55.074	-0.3	39.3		2.96		TAS				a_e	

Event 81016010 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	02:28:57.20			-21.6700	169.7700				33.0			19		145.19	149.32	m i ke	GFZ
OrigID																	

81016062

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	81016016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.26		PKPbc	02:48:34.468	0.3	39.0		2.91		TAS				a_e	
CLL	145.32		PKPbc	02:48:34.368	0.4	39.0		2.91		TAS				m_e	
CLZ	145.90		PKPbc	02:48:36.768	-0.1	39.0		2.91		TAS				a_e	
FLT1	145.19		PKPbc	02:48:33.818	0.1	39.0		2.91		TAS				a_e	
GEC2	146.85		PKPbc	02:48:39.568		39.0		2.91		TAS				a_e	
GRA1	147.29		PKPbc	02:48:40.868		39.0		2.91		TAS				a_e	
GRA1	147.29		L	03:52:04.751						T__		554.1	19.00	a_e	Ms 5.4
GTTG	146.29		PKPbc	02:48:37.868	0.2	39.0		2.91		TAS				a_e	
IBBN	146.41		PKPbc	02:48:37.818	-0.0	39.0		2.91		TAS				a_e	
KAST	147.12		PKPbc	02:48:40.018	0.2	39.0		2.91		TAS				a_e	
MANZ	146.70		PKPbc	02:48:39.168		39.0		2.91		TAS				a_e	
MOX	146.39		L	03:53:59.978						T__		696.9	18.90	a_e	Ms 5.5
NEUB	145.89		PKPbc	02:48:36.518	0.4	39.0		2.91		TAS				a_e	
NRDL	145.47		PKPbc	02:48:35.068	0.3	39.0		2.91		TAS				a_e	
RETH	145.52		PKPbc	02:48:35.218	0.3	39.0		2.91		TAS				a_e	
RJOB	148.07		PKPbc	02:48:42.568		39.0		2.91		TAS				a_e	
ROTZ	146.82		PKPbc	02:48:39.568		39.0		2.91		TAS				a_e	
TNS	147.93		PKPbc	02:48:42.518		39.0		2.91		TAS				m_e	
UBR	149.32		PKPbc	02:48:45.768		39.0		2.91		TAS				a_e	
WET	147.00		PKPbc	02:48:40.068		39.0		2.91		TAS				a_e	
WLF	149.20		PKPbc	02:48:46.268		39.0		2.91		TAS				a_e	

Event 81016011 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	03:03:27.60			-21.9100	169.4500				10.0					145.33	147.37	m i ke	EMSC

OrigID 81016043

Magnitude	Err	Nsta	Author	OrigID
Ms	5.1		BGR	81016017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.33		PKPbc	03:23:04.899		39.7		2.57		TAS				m_e	
CLZ	146.01		PKPbc	03:23:07.196		39.7		2.57		TAS				m_e	
GEC2	146.91		PKPbc	03:23:09.403		39.7		2.57		TAS				m_e	
GRA1	147.37		PKPbc	03:23:10.806		39.7		2.57		TAS				m_e	
GRA1	147.37		L	04:27:56.335						T__		329.7	18.10	a_e	Ms 5.2
MOX	146.47		PKPbc	03:23:08.596		39.7		2.57		TAS				m_e	
MOX	146.47		L	04:32:55.700						T__		319.7	21.20	a_e	Ms 5.1
PLN	146.37		PKPbc	03:23:08.136		39.7		2.57		TAS				m_e	

Event 81016012 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	03:14:30.70			-21.9100	169.8600				10.0			26		144.45	149.78	m i ke	EMSC
81016044																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	81016018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.78		PKPbc	03:34:20.793		39.1		2.95		TAS				a_e	
BRG	145.51		PKPbc	03:34:09.493	0.1	39.1		2.95		TAS				m_e	
BSEG	144.45		PKPbc	03:34:05.541	-0.2	39.1		2.95		TAS				m_e	
BUG	147.56		PKPbc	03:34:16.493	0.1	39.1		2.95		TAS				a_e	
CLL	145.57		PKPbc	03:34:09.393	0.0	39.1		2.95		TAS				a_e	
CLZ	146.16		PKPbc	03:34:11.643	-0.2	39.1		2.95		TAS				a_e	
FLT1	145.45		PKPbc	03:34:08.893	0.8	39.1		2.95		TAS				a_e	
GEC2	147.10		PKPbc	03:34:14.343	-1.0	39.1		2.95		TAS				a_e	
GOR1	144.89		PKPbc	03:34:07.075	-0.1	39.1		2.95		TAS				m_e	
GRA1	147.54		PKPbc	03:34:17.693	-1.2	39.1		2.95		TAS				a_e	
GRA1	147.54		L	04:43:09.887						T__		409.2	18.90	a_e	Ms 5.2
GTTG	146.54		PKPbc	03:34:12.743	-0.1	39.1		2.95		TAS				a_e	
IBBN	146.66		PKPbc	03:34:12.671	0.2	39.1		2.95		TAS				m_e	
KAST	147.38		PKPbc	03:34:14.993	0.3	39.1		2.95		TAS				a_e	
MANZ	146.95		PKPbc	03:34:13.943	2.3	39.1		2.95		TAS				a_e	
MOX	146.64		PKPbc	03:34:12.793	0.2	39.1		2.95		TAS				a_e	
MOX	146.64		L	04:38:53.949						T__		313.8	18.90	a_e	Ms 5.1
NEUB	146.15		PKPbc	03:34:11.443	0.0	39.1		2.95		TAS				a_e	
NRDL	145.72		PKPbc	03:34:10.093	-0.4	39.1		2.95		TAS				a_e	
PLN	146.54		PKPbc	03:34:12.643	0.3	39.1		2.95		TAS				a_e	
RETH	145.77		PKPbc	03:34:10.193	-0.4	39.1		2.95		TAS				a_e	
RJOB	148.32		PKPbc	03:34:17.143		39.1		2.95		TAS				a_e	
ROTZ	147.07		PKPbc	03:34:14.393	0.2	39.1		2.95		TAS				a_e	
TNS	148.18		PKPbc	03:34:18.793	-0.3	39.1		2.95		TAS				a_e	
UBBA	147.12		PKPbc	03:34:14.493	1.4	39.1		2.95		TAS				a_e	
UBR	149.57		PKPbc	03:34:20.443		39.1		2.95		TAS				a_e	
WET	147.25		PKPbc	03:34:14.893	-0.9	39.1		2.95		TAS				a_e	
WLF	149.45		PKPbc	03:34:20.943	-0.0	39.1		2.95		TAS				a_e	

Event 81016013 Southeast of Loyalty Islands

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

2018/10/16 03:32:45.00 -21.7500 169.4700 10.0 20 145.16 149.48 m i ke EMSC
81016045

Magnitude Err Nsta Author OrigID
Ms 5.1 BGR 81016019

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.48		PKPbc	03:52:31.774		39.5		2.86		TAS				a_e	
BRG	145.20		PKPbc	03:52:20.074	0.1	39.5		2.86		TAS				a_e	
CLL	145.27		PKPbc	03:52:19.974	0.2	39.5		2.86		TAS				m_e	
CLZ	145.87		PKPbc	03:52:22.374	0.0	39.5		2.86		TAS				a_e	
FLT1	145.16		PKPbc	03:52:19.424	-0.4	39.5		2.86		TAS				a_e	
GEC2	146.78		PKPbc	03:52:25.124		39.5		2.86		TAS				a_e	
GRA1	147.24		PKPbc	03:52:28.074		39.5		2.86		TAS				a_e	
GRA1	147.24		L	04:58:03.024						T__		297.1	18.60	a_e Ms	5.1
GTTG	146.26		PKPbc	03:52:23.474	0.1	39.5		2.86		TAS				a_e	
IBBN	146.38		PKPbc	03:52:23.424	0.1	39.5		2.86		TAS				a_e	
KAST	147.09		PKPbc	03:52:26.507		39.5		2.86		TAS				m_e	
MANZ	146.64		PKPbc	03:52:24.724		39.5		2.86		TAS				a_e	
MOX	146.34		PKPbc	03:52:23.524	-0.1	39.5		2.86		TAS				a_e	
MOX	146.34		L	04:58:17.158						T__		269.7	20.40	a_e Ms	5.0
NEUB	145.85		PKPbc	03:52:22.174	1.9	39.5		2.86		TAS				a_e	
NRDL	145.43		PKPbc	03:52:20.624	0.3	39.5		2.86		TAS				a_e	
PLN	146.24		PKPbc	03:52:23.374	-0.7	39.5		2.86		TAS				a_e	
RETH	145.49		PKPbc	03:52:20.824	0.3	39.5		2.86		TAS				a_e	
ROTZ	146.77		PKPbc	03:52:25.124		39.5		2.86		TAS				a_e	
STU	148.78		PKPbc	03:52:30.374		39.5		2.86		TAS				a_e	
UBR	149.26		PKPbc	03:52:31.324		39.5		2.86		TAS				a_e	
WET	146.94		PKPbc	03:52:25.624		39.5		2.86		TAS				a_e	
WLF	149.17		PKPbc	03:52:31.874		39.5		2.86		TAS				a_e	

Event 81016014 Southeast of Loyalty Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/10/16 04:08:58.10 -22.0100 169.5000 10.0 23 145.41 149.73 m i ke EMSC
81016046

Magnitude Err Nsta Author OrigID
Ms 5.0 BGR 81016020

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.73		PKPbc	04:28:46.770		39.7		2.76		TAS				a_e	
BRG	145.44		PKPbc	04:28:35.270	0.4	39.7		2.76		TAS				a_e	
BUG	147.53		PKPbc	04:28:41.020	0.1	39.7		2.76		TAS				m_e	
CLL	145.51		PKPbc	04:28:35.220	0.2	39.7		2.76		TAS				m_e	
CLZ	146.12		PKPbc	04:28:37.570	-0.2	39.7		2.76		TAS				a_e	

./bull1810.txt

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FLT1	145.41	PKPbc	04:28:34.670	0.1	39.7	2.76	TAS	a_e									
GEC2	147.02	PKPbc	04:28:40.170		39.7	2.76	TAS	a_e									
GRA1	147.48	PKPbc	04:28:41.570		39.7	2.76	TAS	a_e									
GRA1	147.48	L	05:34:01.450				T__		218.4	20.00	a_e	Ms				4.9	
GTTG	146.51	PKPbc	04:28:38.570	0.1	39.7	2.76	TAS	a_e									
IBBN	146.64	PKPbc	04:28:38.620	-0.4	39.7	2.76	TAS	a_e									
KAST	147.34	PKPbc	04:28:40.770	0.4	39.7	2.76	TAS	a_e									
MANZ	146.88	PKPbc	04:28:39.870	-0.5	39.7	2.76	TAS	a_e									
MOX	146.58	PKPbc	04:28:38.669	0.5	39.7	2.76	TAS	m_e									
MOX	146.58	L	05:35:46.293				T__		385.3	21.90	a_e	Ms				5.1	
NRDL	145.68	PKPbc	04:28:35.970	0.2	39.7	2.76	TAS	a_e									
PLN	146.48	PKPbc	04:28:38.570	0.3	39.7	2.76	TAS	a_e									
RETH	145.74	PKPbc	04:28:36.120	0.3	39.7	2.76	TAS	a_e									
RJOB	148.24	PKPbc	04:28:43.070		39.7	2.76	TAS	a_e									
ROTZ	147.01	PKPbc	04:28:40.220	-0.5	39.7	2.76	TAS	a_e									
TNS	148.14	PKPbc	04:28:43.220	0.1	39.7	2.76	TAS	a_e									
UBBA	147.08	PKPbc	04:28:40.020	0.3	39.7	2.76	TAS	a_e									
UBR	149.50	PKPbc	04:28:46.220		39.7	2.76	TAS	a_e									
WET	147.18	PKPbc	04:28:40.720		39.7	2.76	TAS	a_e									
WLF	149.42	PKPbc	04:28:46.770	-0.5	39.7	2.76	TAS	a_e									

Event 81016015 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	04:21:21.40			-21.8800	169.6000				10.0			21		145.32	149.65	m i ke	EMSC
	81016047																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.0	BGR		81016021

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.65		PKPbc	04:41:09.008		39.4		2.79		TAS				a_e	
BRG	145.37		PKPbc	04:40:57.558	0.4	39.4		2.79		TAS				a_e	
CLL	145.44		PKPbc	04:40:57.458	0.3	39.4		2.79		TAS				m_e	
CLZ	146.03		PKPbc	04:40:59.858	-0.2	39.4		2.79		TAS				a_e	
FLT1	145.32		PKPbc	04:40:56.908	0.1	39.4		2.79		TAS				a_e	
GEC2	146.96		PKPbc	04:41:02.508		39.4		2.79		TAS				a_e	
GRA1	147.41		L	05:44:34.610						T__	253.0	19.80	a_e	Ms	5.0
GTTG	146.42		PKPbc	04:41:00.858	-0.3	39.4		2.79		TAS				a_e	
IBBN	146.55		PKPbc	04:41:00.808	0.2	39.4		2.79		TAS				a_e	
KAST	147.26		PKPbc	04:41:03.108	0.3	39.4		2.79		TAS				a_e	
MANZ	146.81		PKPbc	04:41:02.108	-0.5	39.4		2.79		TAS				a_e	
MOX	146.51		PKPbc	04:41:00.958	0.1	39.4		2.79		TAS				a_e	
MOX	146.51		L	05:44:28.170						T__	220.3	19.50	a_e	Ms	5.0
NEUB	146.02		PKPbc	04:40:59.558	0.4	39.4		2.79		TAS				a_e	
NRDL	145.60		PKPbc	04:40:58.108	0.3	39.4		2.79		TAS				a_e	

PLN	146.41	PKPbc	04:41:00.858	0.1	39.4	2.79	TAS	a_e
RETH	145.66	PKPbc	04:40:58.258	0.4	39.4	2.79	TAS	a_e
ROTZ	146.94	PKPbc	04:41:02.508		39.4	2.79	TAS	a_e
TNS	148.06	PKPbc	04:41:05.408	-0.6	39.4	2.79	TAS	a_e
UBBA	147.00	PKPbc	04:41:01.826	0.3	39.4	2.79	TAS	m_e
UBR	149.43	PKPbc	04:41:08.608		39.4	2.79	TAS	a_e
WET	147.11	PKPbc	04:41:02.766		39.4	2.79	TAS	m_e
WLF	149.34	PKPbc	04:41:09.058		39.4	2.79	TAS	a_e

Event 81016016 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	04:42:42.30			-21.7900	169.5700				10.0			24		145.23	149.56	m i ke	EMSC
OrigID 81016048																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.3		BGR	81016022

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.56		PKPbc	05:02:29.442		39.4		2.78		TAS				a_e	
BRG	145.28		PKPbc	05:02:17.692	0.4	39.4		2.78		TAS				a_e	
BUG	147.35		PKPbc	05:02:23.542	0.3	39.4		2.78		TAS				a_e	
CLL	145.34		PKPbc	05:02:17.642	0.2	39.4		2.78		TAS				a_e	
CLZ	145.94		PKPbc	05:02:19.992	0.0	39.4		2.78		TAS				m_e	
FLT1	145.23		PKPbc	05:02:17.042	0.2	39.4		2.78		TAS				a_e	
GEC2	146.86		PKPbc	05:02:22.742		39.4		2.78		TAS				a_e	
GRA1	147.31		PKPbc	05:02:24.142	-0.4	39.4		2.78		TAS				a_e	
GRA1	147.31		L	06:09:20.164						T__		627.6	20.50	a_e Ms	5.4
GTTG	146.33		PKPbc	05:02:21.092	-0.4	39.4		2.78		TAS				a_e	
IBBN	146.46		PKPbc	05:02:21.092	-0.5	39.4		2.78		TAS				a_e	
KAST	147.16		PKPbc	05:02:23.342	0.3	39.4		2.78		TAS				a_e	
MANZ	146.72		PKPbc	05:02:22.442	-0.0	39.4		2.78		TAS				a_e	
MOX	146.41		PKPbc	05:02:21.342	-0.2	39.4		2.78		TAS				a_e	
MOX	146.41		L	06:09:15.398						T__		379.1	20.40	a_e Ms	5.2
NEUB	145.92		PKPbc	05:02:19.742	0.4	39.4		2.78		TAS				a_e	
NRDL	145.50		PKPbc	05:02:18.292	0.3	39.4		2.78		TAS				a_e	
PLN	146.31		PKPbc	05:02:21.142	0.5	39.4		2.78		TAS				a_e	
RETH	145.56		PKPbc	05:02:18.442	0.3	39.4		2.78		TAS				a_e	
RJOB	148.08		PKPbc	05:02:25.842		39.4		2.78		TAS				a_e	
ROTZ	146.84		PKPbc	05:02:22.742	-0.4	39.4		2.78		TAS				a_e	
TNS	147.97		PKPbc	05:02:25.742	0.2	39.4		2.78		TAS				a_e	
UBBA	146.91		PKPbc	05:02:22.692	0.3	39.4		2.78		TAS				a_e	
UBR	149.34		PKPbc	05:02:28.992		39.4		2.78		TAS				a_e	
WET	147.02		PKPbc	05:02:23.292		39.4		2.78		TAS				a_e	
WLF	149.24		PKPbc	05:02:28.680	-0.4	39.4		2.78		TAS				m_e	

Event 81016017 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	05:34:51.80			-21.7200	169.5100				10.0				21	144.16	149.47	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms 4.6		BGR		81016023

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.47		PKPbc	05:54:38.654		39.5		2.79		TAS				a_e	
BRG	145.19		PKPbc	05:54:26.854	0.5	39.5		2.79		TAS				a_e	
BSEG	144.16		PKPbc	05:54:25.204	-0.3	39.5		2.79		TAS				m_e	
CLL	145.26		PKPbc	05:54:26.804	0.3	39.5		2.79		TAS				m_e	
CLZ	145.85		PKPbc	05:54:29.204	-0.3	39.5		2.79		TAS				a_e	
FLT1	145.14		PKPbc	05:54:26.254	0.1	39.5		2.79		TAS				a_e	
GEC2	146.78		PKPbc	05:54:31.954		39.5		2.79		TAS				a_e	
GRA1	147.23		L	07:03:27.694						T__		82.1	19.70	a_e Ms	4.5
GTTG	146.24		PKPbc	05:54:30.304	0.1	39.5		2.79		TAS				a_e	
IBBN	146.37		PKPbc	05:54:29.792	-0.5	39.5		2.79		TAS				m_e	
IBBN	146.37		L	06:56:51.231						T__		140.6	19.40	a_e Ms	4.8
MANZ	146.63		PKPbc	05:54:31.554	-0.3	39.5		2.79		TAS				a_e	
MOX	146.33		PKPbc	05:54:30.354	0.1	39.5		2.79		TAS				a_e	
NEUB	145.84		PKPbc	05:54:28.954	0.6	39.5		2.79		TAS				a_e	
NRDL	145.42		PKPbc	05:54:27.504	0.2	39.5		2.79		TAS				a_e	
PLN	146.23		PKPbc	05:54:30.204	-0.4	39.5		2.79		TAS				a_e	
RETH	145.48		PKPbc	05:54:27.604	-0.7	39.5		2.79		TAS				a_e	
RJOB	147.99		PKPbc	05:54:34.954		39.5		2.79		TAS				a_e	
ROTZ	146.76		PKPbc	05:54:32.142		39.5		2.79		TAS				m_e	
TNS	147.88		PKPbc	05:54:34.954	-0.3	39.5		2.79		TAS				a_e	
UBR	149.25		PKPbc	05:54:38.204		39.5		2.79		TAS				a_e	
WET	146.93		PKPbc	05:54:32.504		39.5		2.79		TAS				a_e	
WLF	149.16		PKPbc	05:54:38.704		39.5		2.79		TAS				a_e	

Event 81016018 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	06:49:50.30			-21.6400	169.4300				10.0				24	145.04	149.37	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms 4.6		BGR		81016024

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.37		PKPbc	07:09:36.060		39.5		2.83		TAS				a_e	
BRG	145.08		PKPbc	07:09:24.310	0.4	39.5		2.83		TAS				a_e	
BUG	147.17		PKPbc	07:09:30.110	0.1	39.5		2.83		TAS				a_e	
CLL	145.15		PKPbc	07:09:24.260	0.2	39.5		2.83		TAS				m_e	
CLZ	145.75		PKPbc	07:09:26.660	0.1	39.5		2.83		TAS				a_e	
FLT1	145.04		PKPbc	07:09:23.710	0.1	39.5		2.83		TAS				a_e	
GEC2	146.67		PKPbc	07:09:29.410		39.5		2.83		TAS				a_e	
GRA1	147.12		PKPbc	07:09:30.810	-0.5	39.5		2.83		TAS				a_e	
GTTG	146.14		PKPbc	07:09:27.760	-0.3	39.5		2.83		TAS				a_e	
IBBN	146.27		PKPbc	07:09:27.710	-0.4	39.5		2.83		TAS				a_e	
KAST	146.98		PKPbc	07:09:29.910	0.2	39.5		2.83		TAS				a_e	
KAST	146.98		L	08:13:13.566						T__		112.0	21.40	a_e Ms	4.6
MANZ	146.53		PKPbc	07:09:29.060	0.1	39.5		2.83		TAS				a_e	
MOX	146.22		PKPbc	07:09:27.910	0.4	39.5		2.83		TAS				a_e	
MOX	146.22		L	08:17:39.258						T__		85.5	20.60	a_e Ms	4.5
NEUB	145.73		PKPbc	07:09:26.410	0.3	39.5		2.83		TAS				a_e	
NRDL	145.32		PKPbc	07:09:24.960	0.3	39.5		2.83		TAS				a_e	
PLN	146.12		PKPbc	07:09:27.710	0.5	39.5		2.83		TAS				a_e	
RETH	145.38		PKPbc	07:09:25.060	0.3	39.5		2.83		TAS				a_e	
RJOB	147.89		PKPbc	07:09:32.410		39.5		2.83		TAS				a_e	
ROTZ	146.65		PKPbc	07:09:29.360	-0.5	39.5		2.83		TAS				a_e	
TNS	147.78		PKPbc	07:09:32.360	0.3	39.5		2.83		TAS				a_e	
UBBA	146.72		PKPbc	07:09:29.160	0.3	39.5		2.83		TAS				a_e	
UBR	149.14		PKPbc	07:09:35.660		39.5		2.83		TAS				a_e	
WET	146.82		PKPbc	07:09:29.910		39.5		2.83		TAS				a_e	
WLF	149.06		PKPbc	07:09:36.110	-0.5	39.5		2.83		TAS				a_e	

Event 81016019 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	08:35:38.30			0.4750	-27.2140				33.0				24	56.69	61.61	m i ke	BGR
OrigID 81016025																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	81016025
Ms	5.0		BGR	81016025

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	56.69		P	08:45:19.841		226.4		6.93		TAS		51.2	1.54	a_e mb	5.3
BFO	56.69		L	09:07:01.255						T__		1349.7	20.10	a_e Ms	5.0
BRG	61.09		P	08:45:50.341	-0.2	226.4		6.93		TAS		30.5	1.23	a_e mb	5.0
BSEG	61.61		P	08:45:53.191	0.6	226.4		6.93		TAS		99.1	1.32	a_e mb	5.9
BSEG	61.61		L	09:10:41.203						T__		1493.0	18.80	a_e Ms	5.2
BUG	58.51		P	08:45:32.291	0.3	226.4		6.93		TAS		39.6	1.06	a_e mb	5.4
CLL	60.94		P	08:45:49.491	0.3	226.4		6.93		TAS		76.4	1.70	a_e mb	5.2

CLL	60.94	L	09:08:54.974						T__	670.7	20.70	a_e	Ms	4.8
CLZ	60.13	P	08:45:43.591	-0.1	226.4		6.93		TAS	36.1	1.47	a_e	mb	5.2
FLT1	60.85	P	08:45:48.391	0.1	226.4		6.93		TAS	41.5	1.46	a_e	mb	5.0
FUR	57.98	P	08:45:28.991		226.4		6.93		TAS			a_e		
FUR	57.98	L	09:08:41.750						T__	821.4	19.40	a_e	Ms	4.8
GEC2	59.64	P	08:45:40.491		226.4		6.93		TAS	59.7	1.31	m_e	mb	5.5
GEC2	59.64	L	09:08:12.166						T__	1096.9	21.60	a_e	Ms	5.0
GOR1	61.35	P	08:45:52.191	0.0	226.4		6.93		TAS	128.8	1.48	a_e	mb	5.5
GRA1	59.01	P	08:45:36.041	0.0	226.4		6.93		TAS	103.4	1.46	a_e	mb	5.7
GRA1	59.01	L	09:08:22.958						T__	866.8	20.30	a_e	Ms	4.9
GTTG	59.74	P	08:45:41.241	-0.1	226.4		6.93		TAS	62.0	1.17	a_e	mb	5.5
IBBN	59.36	P	08:45:38.091	0.0	226.4		6.93		TAS	73.0	1.20	a_e	mb	5.6
KAST	58.82	P	08:45:34.391	-0.1	226.4		6.93		TAS	31.8	1.19	a_e	mb	5.2
MANZ	59.63	P	08:45:40.141	-0.1	226.4		6.93		TAS	9.5	1.25	a_e	mb	4.7
MOX	59.85	P	08:45:42.091	0.0	226.4		6.93		TAS	43.0	1.28	a_e	mb	5.3
MOX	59.85	L	09:10:07.489						T__	973.2	19.40	a_e	Ms	5.0
NRDL	60.48	P	08:45:46.641	-0.1	226.4		6.93		TAS	75.1	1.51	a_e	mb	5.5
PLN	59.99	P	08:45:42.791	0.0	226.4		6.93		TAS	51.6	1.30	a_e	mb	5.4
RJOB	58.46	P	08:45:31.841		226.4		6.93		TAS	16.9	1.00	a_e	mb	5.0
ROTZ	59.52	P	08:45:39.391	0.1	226.4		6.93		TAS	15.1	1.31	a_e	mb	4.9
TNS	58.12	P	08:45:29.641	0.2	226.4		6.93		TAS	29.5	1.12	a_e	mb	5.2
TNS	58.12	L	09:06:59.258						T__	1570.9	21.20	a_e	Ms	5.1
UBBA	59.24	P	08:45:37.841	-0.2	226.4		6.93		TAS	71.0	1.78	a_e	mb	5.4
UBR	57.08	P	08:45:22.641		226.4		6.93		TAS	51.0	1.27	a_e	mb	5.4
WET	59.43	P	08:45:38.941		226.4		6.93		TAS	97.0	1.75	a_e	mb	5.5
WET	59.43	L	09:09:12.379						T__	1296.6	20.00	a_e	Ms	5.1

Event 81016020 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/16	10:50:26.50			-21.7700	169.7700				14.0				18	145.29	149.40	m i ke	EMSC
	81016052																

Magnitude	Err	Nsta	Author	OrigID
Ms	4.3		BGR	81016026

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.34		PKPbc	11:10:03.030	0.2	39.1		2.99		TAS				m_e	
CLL	145.41		PKPbc	11:10:02.924	0.3	39.1		2.99		TAS				m_e	
CLZ	146.00		PKPbc	11:10:05.408	-0.1	39.1		2.99		TAS				m_e	
FLT1	145.29		PKPbc	11:10:02.457	-0.1	39.1		2.99		TAS				m_e	
GEC2	146.94		PKPbc	11:10:08.288		39.1		2.99		TAS				m_e	
GRA1	147.38		L	12:13:20.906						T__	57.5	18.80	a_e	Ms	4.4
GTTG	146.38		PKPbc	11:10:06.590	0.2	39.1		2.99		TAS				m_e	
IBBN	146.50		PKPbc	11:10:06.619	0.3	39.1		2.99		TAS				m_e	
KAST	147.22		PKPbc	11:10:08.739	0.5	39.1		2.99		TAS				m_e	

MANZ	146.78	PKPbc	11:10:07.795		39.1	2.99	TAS										m_e
MOX	146.48	L	12:18:46.303				T__					46.2	18.50	a_e	Ms		4.3
NEUB	145.99	PKPbc	11:10:05.319	0.3	39.1	2.99	TAS										m_e
PLN	146.38	PKPbc	11:10:06.444		39.1	2.99	TAS										m_e
RETH	145.61	PKPbc	11:10:03.703	0.3	39.1	2.99	TAS										m_e
RJOB	148.16	PKPbc	11:10:11.172		39.1	2.99	TAS										m_e
ROTZ	146.91	PKPbc	11:10:08.314		39.1	2.99	TAS										m_e
TNS	148.02	PKPbc	11:10:12.204		39.1	2.99	TAS										m_e
UBBA	146.96	PKPbc	11:10:07.950	-0.6	39.1	2.99	TAS										m_e
UBR	149.40	PKPbc	11:10:14.566		39.1	2.99	TAS										m_e
WET	147.09	PKPbc	11:10:08.700		39.1	2.99	TAS										m_e

Event 81017002 Santa Cruz Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/17	00:57:42.60			-11.5200	166.2900				30.0					135.81	136.73	m i ke	EMSC
OrigID 81017034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	136.73		PKP	01:17:18.130		37.1		1.15		TAS						m_e
GRA1	136.73		L	02:22:06.080						T__		655.7	20.70		a_e	
MOX	135.81		L	02:21:18.268						T__		597.9	20.30		a_e	

Event 81017003 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/17	01:23:08.50			-21.6700	169.6000				10.0				26	144.15	149.46	m i ke	EMSC
OrigID 81017035																	

Magnitude Err Nsta Author OrigID
Ms 5.0 BGR 81017009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	149.46		PKPbc	01:42:56.335		39.3		2.86		TAS						m_e
BRG	145.18		PKPbc	01:42:44.722	0.3	39.3		2.86		TAS						m_e
BSEG	144.15		PKPbc	01:42:40.996	-0.2	39.3		2.86		TAS						m_e
CLL	145.25		PKPbc	01:42:44.401	0.2	39.3		2.86		TAS						m_e
CLZ	145.84		PKPbc	01:42:46.955	0.2	39.3		2.86		TAS						m_e
FLT1	145.13		PKPbc	01:42:43.942	-0.4	39.3		2.86		TAS						m_e
GEC2	146.77		PKPbc	01:42:49.709	-0.6	39.3		2.86		TAS						m_e
GOR1	144.58		PKPbc	01:42:42.479	-0.1	39.3		2.86		TAS						a_e

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GRA1	147.22	PKPbc	01:42:50.925	-0.5	39.3	2.86	TAS										m_e
GRA1	147.22	L	02:47:44.779				T__			286.1	20.10	a_e Ms					5.0
GTTG	146.23	PKPbc	01:42:48.124	0.1	39.3	2.86	TAS										m_e
IBBN	146.35	PKPbc	01:42:48.083	0.6	39.3	2.86	TAS										m_e
KAST	147.06	PKPbc	01:42:50.201	0.1	39.3	2.86	TAS										m_e
MANZ	146.62	PKPbc	01:42:49.270	0.4	39.3	2.86	TAS										m_e
MOX	146.32	PKPbc	01:42:47.979	0.3	39.3	2.86	TAS										a_e
MOX	146.32	L	02:48:50.806				T__			277.7	20.90	a_e Ms					5.0
NEUB	145.83	PKPbc	01:42:46.579	0.1	39.3	2.86	TAS										m_e
NRDL	145.41	PKPbc	01:42:45.079	-0.5	39.3	2.86	TAS										a_e
PLN	146.22	PKPbc	01:42:47.779	0.3	39.3	2.86	TAS										a_e
RETH	145.46	PKPbc	01:42:45.179	0.1	39.3	2.86	TAS										a_e
RJOB	147.99	PKPbc	01:42:52.678		39.3	2.86	TAS										m_e
ROTZ	146.75	PKPbc	01:42:49.499	0.1	39.3	2.86	TAS										m_e
STU	148.76	PKPbc	01:42:54.281		39.3	2.86	TAS										m_e
TNS	147.87	PKPbc	01:42:52.548	0.4	39.3	2.86	TAS										m_e
UBBA	146.81	PKPbc	01:42:49.380	0.5	39.3	2.86	TAS										m_e
UBR	149.24	PKPbc	01:42:55.831		39.3	2.86	TAS										m_e
WET	146.93	PKPbc	01:42:50.226	-0.5	39.3	2.86	TAS										m_e
WLF	149.14	PKPbc	01:42:56.229	-0.6	39.3	2.86	TAS										a_e

Event 81017004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/17	06:01:19.00			-22.2400	170.1000				10.0			18		144.84	149.96	m i ke	EMSC
	81017036																

Magnitude	Err	Nsta	Author	OrigID
Ms	4.5	BGR		81017010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.90		PKPbc	06:20:55.727	0.1	39.0		2.91		TAS					m_e
BSEG	144.84		PKPbc	06:20:51.971	0.1	39.0		2.91		TAS					m_e
CLL	145.96		PKPbc	06:20:55.611	0.0	39.0		2.91		TAS					m_e
CLZ	146.55		PKPbc	06:20:58.218	0.3	39.0		2.91		TAS					m_e
FLT1	145.84		PKPbc	06:20:54.958	-0.3	39.0		2.91		TAS					m_e
GEC2	147.50		PKPbc	06:21:00.784		39.0		2.91		TAS					m_e
GOR1	145.28		PKPbc	06:20:53.930	0.1	39.0		2.91		TAS					m_e
GRA1	147.93		L	07:20:09.527						T__		76.2	21.70	a_e Ms	4.5
GTTG	146.93		PKPbc	06:20:59.448	-0.1	39.0		2.91		TAS					m_e
IBBN	147.04		PKPbc	06:20:59.141	0.7	39.0		2.91		TAS					m_e
MANZ	147.34		PKPbc	06:20:59.964		39.0		2.91		TAS					m_e
MOX	147.03		L	07:20:10.838						T__		92.0	19.50	a_e Ms	4.6
NEUB	146.54		PKPbc	06:20:57.922	0.6	39.0		2.91		TAS					m_e
NRDL	146.10		PKPbc	06:20:56.547	-0.6	39.0		2.91		TAS					m_e
RETH	146.16		PKPbc	06:20:56.754	-0.1	39.0		2.91		TAS					m_e

RJOB	148.72	PKPbc	06:21:03.763	39.0	2.91	TAS	m_e
ROTZ	147.47	PKPbc	06:21:00.648	39.0	2.91	TAS	m_e
TNS	148.57	PKPbc	06:21:03.801	39.0	2.91	TAS	m_e
UBR	149.96	PKPbc	06:21:06.838	39.0	2.91	TAS	m_e
WET	147.65	PKPbc	06:21:01.605	39.0	2.91	TAS	m_e

Event 81017005 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/17	22:03:09.95			36.6310	21.4210				33.0			16		13.73	18.95	m i ke	BGR
	81017011																

Magnitude	Err	Nsta	Author	OrigID
Ms	2.9		BGR	81017011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	15.14		P	22:06:46.209	1.7	146.7		11.22		TAS		6.3	0.96	m_e	
BFO	15.14		L	22:12:49.025						T__		84.7	18.10	a_e Ms	2.9
BSEG	18.95		P	22:07:28.530		146.7		11.22		TAS		14.0	1.12	m_e	
CLL	15.86		P	22:06:55.110	1.1	146.7		11.22		TAS		21.0	1.23	m_e	
CLL	15.86		L	22:12:55.340						T__		60.4	19.60	a_e Ms	2.8
CLZ	17.11		P	22:07:08.862		146.7		11.22		TAS		12.1	1.07	m_e	
FUR	13.73		L	22:12:13.689						T__		118.4	18.50	a_e Ms	3.0
GOR1	17.83		P	22:07:17.985		146.7		11.22		TAS		33.2	1.41	m_e	
GRA1	15.01		P	22:06:45.122	0.5	146.7		11.22		TAS		24.7	1.18	m_e	
GRA1	15.01		L	22:12:13.172						T__		81.6	19.60	a_e Ms	2.9
GTTG	17.00		P	22:07:07.831		146.7		11.22		TAS		18.0	1.16	m_e	
KAST	17.28		P	22:07:10.486		146.7		11.22		TAS		11.1	1.44	m_e	
MANZ	14.95		P	22:06:45.073	0.5	146.7		11.22		TAS		2.4	0.93	m_e	
MOX	15.68		P	22:06:52.854	-1.1	146.7		11.22		TAS		10.6	1.02	m_e	
MOX	15.68		L	22:12:46.584						T__		76.7	20.80	a_e Ms	2.9
NEUB	16.11		P	22:06:58.669	-0.9	146.7		11.22		TAS		55.4	1.15	m_e	
PLN	15.37		P	22:06:49.357	-0.8	146.7		11.22		TAS		11.6	0.98	m_e	
RUE	16.74		P	22:07:04.672		146.7		11.22		TAS		62.0	1.15	m_e	
TANN	15.22		P	22:06:48.612	-0.7	146.7		11.22		TAS		5.9	1.11	m_e	
TNS	16.50		P	22:07:02.633		146.7		11.22		TAS		7.6	0.91	m_e	
TNS	16.50		L	22:14:55.314						T__		76.3	19.30	a_e Ms	2.9
WET	13.97		L	22:11:55.501						T__		85.3	19.60	a_e Ms	2.8
WLF	17.10		P	22:07:08.820		146.7		11.22		TAS		17.8	1.08	m_e	

Event 81017006 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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2018/10/17 23:34:29.38

-22.4590 172.6890

33.0

27

145.85 151.32 m i ke BGR

81017012

Magnitude Err Nsta Author OrigID
Ms 4.4 BGR 81017012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.32		PKPbc	23:54:19.731		34.9		2.66		TAS				a_e	
BFO	151.32		L	01:11:13.915						T__		68.3	18.50	a_e Ms	4.5
BRG	147.15		PKPbc	23:54:09.131	0.2	34.9		2.66		TAS				a_e	
BSEG	145.85		PKPbc	23:54:05.531	-0.7	34.9		2.66		TAS				a_e	
BUG	148.93		PKPbc	23:54:13.415	0.4	34.9		2.66		TAS				m_e	
CLL	147.16		PKPbc	23:54:08.981	0.1	34.9		2.66		TAS				m_e	
CLL	147.16		L	01:07:22.995						T__		57.4	18.20	a_e Ms	4.4
CLZ	147.64		PKPbc	23:54:10.353	0.4	34.9		2.66		TAS				m_e	
FLT1	146.94		PKPbc	23:54:08.331	-0.1	34.9		2.66		TAS				a_e	
FUR	150.36		L	01:08:07.980						T__		82.0	18.10	a_e Ms	4.6
GEC2	148.83		PKPbc	23:54:13.731	-0.7	34.9		2.66		TAS				a_e	
GOR1	146.36		PKPbc	23:54:06.331	-0.2	34.9		2.66		TAS				a_e	
GRA1	149.14		L	01:00:04.685						T__		54.8	20.70	a_e Ms	4.3
GTTG	148.02		PKPbc	23:54:11.881	0.2	34.9		2.66		TAS				a_e	
IBBN	148.02		PKPbc	23:54:11.781	0.5	34.9		2.66		TAS				a_e	
KAST	148.81		PKPbc	23:54:13.981	0.5	34.9		2.66		TAS				a_e	
MANZ	148.57		PKPbc	23:54:13.331	0.1	34.9		2.66		TAS				a_e	
MOX	148.21		PKPbc	23:54:12.131	0.5	34.9		2.66		TAS				a_e	
MOX	148.21		L	01:11:27.766						T__		49.2	20.50	a_e Ms	4.3
NEUB	147.71		PKPbc	23:54:10.781	0.4	34.9		2.66		TAS				a_e	
NRDL	147.16		PKPbc	23:54:09.431	-0.1	34.9		2.66		TAS				a_e	
PLN	148.14		PKPbc	23:54:12.031	0.0	34.9		2.66		TAS				a_e	
RETH	147.18		PKPbc	23:54:09.481	0.2	34.9		2.66		TAS				a_e	
RJOB	150.07		PKPbc	23:54:15.874	-0.5	34.9		2.66		TAS				m_e	
ROTZ	148.71		PKPbc	23:54:13.731	0.4	34.9		2.66		TAS				a_e	
RUE	145.94		PKPbc	23:54:05.531	-0.3	34.9		2.66		TAS				a_e	
STU	150.65		PKPbc	23:54:18.398		34.9		2.66		TAS				m_e	
TANN	148.09		PKPbc	23:54:11.981	0.3	34.9		2.66		TAS				a_e	
TNS	149.65		PKPbc	23:54:16.298	-0.5	34.9		2.66		TAS				m_e	
TNS	149.65		L	01:08:19.820						T__		61.4	18.00	a_e Ms	4.4
UBR	151.21		PKPbc	23:54:19.431		34.9		2.66		TAS				a_e	
WET	148.94		PKPbc	23:54:14.231	-1.1	34.9		2.66		TAS				a_e	
WET	148.94		L	01:00:10.313						T__		68.0	19.00	a_e Ms	4.5
WLF	150.84		PKPbc	23:54:19.631		34.9		2.66		TAS				a_e	

Event 81018004 Eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/18	05:18:31.59		36.5860	139.6320					33.0			19		79.80	84.98	m i ke	BGR

81018010

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	81018010
Ms	4.4		BGR	81018010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	84.98		P	05:31:01.478		39.4		5.21		TAS		14.4	0.90	m_e	mb	5.2
BFO	84.98		L	06:11:30.531						T__		120.9	22.00	a_e	Ms	4.2
BRG	80.70		P	05:30:40.018	0.1	39.4		5.21		TAS		8.1	0.77	m_e	mb	4.8
BSEG	79.80		P	05:30:35.286	-0.2	39.4		5.21		TAS		21.6	1.12	m_e	mb	5.0
BSEG	79.80		L	06:10:22.658						T__		236.5	18.00	a_e	Ms	4.6
CLL	80.76		P	05:30:39.927	0.0	39.4		5.21		TAS		18.5	0.76	m_e	mb	5.2
CLL	80.76		L	06:13:04.958						T__		164.5	19.50	a_e	Ms	4.4
CLZ	81.41		P	05:30:43.868	0.1	39.4		5.21		TAS		16.0	0.98	m_e	mb	5.0
FLT1	80.69		P	05:30:39.398	-0.2	39.4		5.21		TAS		19.3	0.89	a_e	mb	5.1
FUR	83.89		L	06:12:35.155						T__		163.5	18.40	a_e	Ms	4.4
GEC2	82.33		P	05:30:48.407		39.4		5.21		TAS		4.4	0.75	m_e	mb	4.7
GEC2	82.33		L	06:10:06.749						T__		148.6	20.00	a_e	Ms	4.3
GRA1	82.73		P	05:30:50.922		39.4		5.21		TAS		21.4	0.82	m_e	mb	5.4
GRA1	82.73		L	06:12:31.832						T__		182.6	20.50	a_e	Ms	4.4
IBBN	82.04		P	05:30:46.645	1.1	39.4		5.21		TAS		17.0	0.64	m_e	mb	5.3
KAST	82.67		P	05:30:51.227	0.3	39.4		5.21		TAS		5.9	1.10	m_e	mb	4.7
MANZ	82.14		P	05:30:47.481		39.4		5.21		TAS		1.8	0.68	m_e	mb	4.3
MOX	81.84		P	05:30:45.864	-0.8	39.4		5.21		TAS		5.7	0.68	m_e	mb	4.8
MOX	81.84		L	06:10:34.433						T__		115.4	21.00	a_e	Ms	4.2
NEUB	81.35		P	05:30:43.180	0.4	39.4		5.21		TAS		16.4	0.75	m_e	mb	5.1
NRDL	81.00		P	05:30:41.265	0.3	39.4		5.21		TAS		7.8	0.94	m_e	mb	4.7
RETH	81.10		P	05:30:41.869	-0.5	39.4		5.21		TAS		19.8	1.18	m_e	mb	5.0
RJOB	83.56		P	05:30:55.010		39.4		5.21		TAS		11.2	1.08	m_e	mb	5.0
ROTZ	82.27		P	05:30:48.447		39.4		5.21		TAS		1.6	0.78	m_e	mb	4.2
TANN	81.66		P	05:30:44.797		39.4		5.21		TAS		4.5	1.01	m_e	mb	4.5
TNS	83.43		L	06:10:27.066						T__		184.8	18.40	a_e	Ms	4.5
WET	82.46		P	05:30:49.207		39.4		5.21		TAS		4.3	0.91	m_e	mb	4.6
WET	82.46		L	06:10:05.042						T__		131.9	21.90	a_e	Ms	4.3

Event 81018005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/18	14:50:14.00			-21.9300	169.8900				10.0			20		144.92	149.81	m i ke	NEIC
81018044																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.5		BGR	81018011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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BFO	149.81	PKPbc	15:10:03.509		39.0	2.84	TAS										m_e
BRG	145.54	PKPbc	15:09:51.965	0.5	39.0	2.84	TAS										m_e
CLL	145.60	PKPbc	15:09:51.800	0.1	39.0	2.84	TAS										m_e
CLZ	146.19	PKPbc	15:09:54.113	0.1	39.0	2.84	TAS										m_e
FLT1	145.48	PKPbc	15:09:51.292	-0.2	39.0	2.84	TAS										m_e
GEC2	147.13	PKPbc	15:09:56.964		39.0	2.84	TAS										m_e
GOR1	144.92	PKPbc	15:09:49.916	-0.5	39.0	2.84	TAS										m_e
GRA1	147.57	L	16:17:24.878				T__				72.8	18.80	a_e	Ms		4.5	
GTTG	146.57	PKPbc	15:09:55.372	0.2	39.0	2.84	TAS										m_e
IBBN	146.69	PKPbc	15:09:55.148	0.0	39.0	2.84	TAS										m_e
KAST	147.41	PKPbc	15:09:57.349	0.4	39.0	2.84	TAS										m_e
MANZ	146.98	PKPbc	15:09:56.581		39.0	2.84	TAS										m_e
MOX	146.67	PKPbc	15:09:55.293	0.1	39.0	2.84	TAS										m_e
MOX	146.67	L	16:14:45.936				T__				92.3	18.00	a_e	Ms		4.6	
NRDL	145.75	PKPbc	15:09:52.554	0.5	39.0	2.84	TAS										m_e
PLN	146.57	PKPbc	15:09:55.190	-0.6	39.0	2.84	TAS										m_e
ROTZ	147.10	PKPbc	15:09:56.803		39.0	2.84	TAS										m_e
TANN	146.50	PKPbc	15:09:55.147	-0.5	39.0	2.84	TAS										m_e
TNS	148.21	PKPbc	15:09:59.727		39.0	2.84	TAS										m_e
UBR	149.60	PKPbc	15:10:03.149		39.0	2.84	TAS										m_e
WET	147.28	PKPbc	15:09:57.259		39.0	2.84	TAS										m_e
WLF	149.48	PKPbc	15:10:03.712		39.0	2.84	TAS										m_e

Event 81018006 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/18	16:22:18.73			-21.7770	169.8850				33.0			20		145.33	149.67	m i ke	IDCSEL3
	81018044																

Magnitude	Err	Nsta	Author	OrigID
Ms	4.3		BGR	81018012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	149.67		PKPbc	16:42:04.007		38.9		2.69		TAS					m_e	
BRG	145.40		PKPbc	16:41:52.582	0.3	38.9		2.69		TAS					m_e	
CLL	145.46		PKPbc	16:41:52.605	0.3	38.9		2.69		TAS					m_e	
CLZ	146.04		PKPbc	16:41:54.878	0.1	38.9		2.69		TAS					m_e	
FLT1	145.33		PKPbc	16:41:52.136	-0.3	38.9		2.69		TAS					m_e	
GEC2	147.00		PKPbc	16:41:57.394		38.9		2.69		TAS					m_e	
GRA1	147.43		PKPbc	16:41:58.741		38.9		2.69		TAS					m_e	
GRA1	147.43		L	17:45:09.412						T__		55.9	18.80	a_e	Ms	4.4
GTTG	146.43		PKPbc	16:41:55.998	0.2	38.9		2.69		TAS					m_e	
IBBN	146.54		PKPbc	16:41:55.831	0.3	38.9		2.69		TAS					m_e	
KAST	147.26		PKPbc	16:41:58.084	0.4	38.9		2.69		TAS					m_e	
MANZ	146.84		PKPbc	16:41:57.108		38.9		2.69		TAS					m_e	
MOX	146.53		PKPbc	16:41:55.917	-0.3	38.9		2.69		TAS					m_e	

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MOX	146.53	L	17:44:06.263							T__	46.1	18.20	a_e	Ms	4.3
NRDL	145.60	PKPbc	16:41:53.097	0.4	38.9		2.69			TAS			m_e		
PLN	146.43	PKPbc	16:41:55.853	-0.6	38.9		2.69			TAS			m_e		
RETH	145.66	PKPbc	16:41:53.229	0.4	38.9		2.69			TAS			m_e		
RJOB	148.22	PKPbc	16:42:00.251		38.9		2.69			TAS			m_e		
ROTZ	146.97	PKPbc	16:41:57.501		38.9		2.69			TAS			m_e		
TANN	146.36	PKPbc	16:41:55.722	-0.2	38.9		2.69			TAS			m_e		
UBR	149.46	PKPbc	16:42:03.654		38.9		2.69			TAS			m_e		
WET	147.15	PKPbc	16:41:58.072		38.9		2.69			TAS			m_e		

Event 81018007 Norwegian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/18	18:13:08.60			63.7000	2.7300				10.0					13.93	16.94	m i ke	EMSC
81018039																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.0		BGR	81018013
Ms	2.8		BGR	81018013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	15.71		P	18:16:56.401		345.1		11.05		TAS		14.4	1.17	m_e	mb	4.0
FUR	16.27		P	18:17:03.594		345.1		11.05		TAS		30.3	1.17	m_e	mb	4.3
GEC2	16.05		P	18:16:59.263		345.1		11.05		TAS		72.9	2.51	m_e	mb	4.4
GRA1	14.78		P	18:16:55.185		345.1		11.05		TAS				m_e		
GRA1	14.78		L	18:23:58.708						T__		74.8	21.70	a_e	Ms	2.8
MOX	13.93		L	18:23:40.517						T__		79.8	21.70	a_e	Ms	2.8
RJOB	16.94		P	18:17:09.975		345.1		11.05		TAS		7.6	1.02	m_e	mb	3.8
UBR	16.57		P	18:17:06.763		345.1		11.05		TAS		27.4	1.59	m_e	mb	4.1
WET	15.60		P	18:16:54.942		345.1		11.05		TAS		7.7	1.09	m_e	mb	3.8

Event 81019002 Near north coast of Irian Jaya, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/19	05:55:12.80			-2.8900	139.1110				58.0					115.19	115.88	m i ke	NEIC
81019041																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	81019008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	115.88		L	07:09:07.541						T__		499.6	20.10	a_e	Ms	5.1
MOX	115.19		L	07:07:35.766						T__		667.3	20.70	a_e	Ms	5.2

Event 81019003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/19	07:48:09.64			-17.6920	-179.4320				600.0			9		143.05	149.09	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.79		PKPbc	08:06:49.168		18.8		2.77		TAS					m_e
BRG	145.22		PKPbc	08:06:40.279	0.1	18.8		2.77		TAS					m_e
BSEG	143.05		PKPbc	08:06:32.979	-0.3	18.8		2.77		TAS					m_e
CLL	145.03		PKPbc	08:06:39.484	-0.1	18.8		2.77		TAS					m_e
CLZ	145.05		PKPbc	08:06:39.773	0.2	18.8		2.77		TAS					m_e
FLT1	144.43		PKPbc	08:06:37.266	-0.1	18.8		2.77		TAS					m_e
GEC2	147.14		PKPbc	08:06:45.482		18.8		2.77		TAS					m_e
GOR1	143.78		PKPbc	08:06:35.855	0.0	18.8		2.77		TAS					m_e
GRA1	146.94		PKPbc	08:06:44.904		18.8		2.77		TAS					m_e
GTTG	145.41		PKPbc	08:06:40.423	0.0	18.8		2.77		TAS					m_e
KAST	145.99		PKPbc	08:06:41.942	0.3	18.8		2.77		TAS					m_e
MANZ	146.47		PKPbc	08:06:43.838	0.1	18.8		2.77		TAS					m_e
MOX	145.96		PKPbc	08:06:42.013		18.8		2.77		TAS					m_e
NEUB	145.40		PKPbc	08:06:40.639	0.1	18.8		2.77		TAS					m_e
NRDL	144.47		PKPbc	08:06:37.649	0.5	18.8		2.77		TAS					m_e
PLN	145.99		PKPbc	08:06:42.425		18.8		2.77		TAS					m_e
RETH	144.35		PKPbc	08:06:37.315	-0.3	18.8		2.77		TAS					m_e
ROTZ	146.66		PKPbc	08:06:44.187		18.8		2.77		TAS					m_e
RUE	143.77		PKPbc	08:06:35.717	0.0	18.8		2.77		TAS					m_e
TANN	145.99		PKPbc	08:06:42.375		18.8		2.77		TAS					m_e
TNS	146.94		PKPbc	08:06:44.691	-0.5	18.8		2.77		TAS					m_e
UBR	149.09		PKPbc	08:06:50.180		18.8		2.77		TAS					m_e
WLF	147.79		PKPbc	08:06:46.972		18.8		2.77		TAS					m_e

Event 81019005 Tajikistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/19	13:25:49.93			37.7720	73.6530				149.1	7.5		31		43.46	48.65	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81019011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	47.54		P	13:34:07.811	-0.5	80.5		7.88		TAS		25.6	1.00	a_e	mb	5.3
BFO	47.54		pP	13:34:41.368	0.1	80.6		7.87		TAS				a_e		
BRG	43.52		P	13:33:36.411	-0.2	80.5		7.88		TAS		59.8	0.91	a_e	mb	5.3
BRG	43.52		pP	13:34:09.718	0.4	80.6		7.87		TAS				a_e		
BSEG	45.40		P	13:33:51.111	0.9	80.5		7.88		TAS		77.8	0.84	a_e	mb	5.7
BSEG	45.40		pP	13:34:24.418	0.7	80.6		7.87		TAS				a_e		
BUG	47.59		P	13:34:08.211	-0.2	80.5		7.88		TAS		44.3	0.97	a_e	mb	5.6
BUG	47.59		pP	13:34:41.668	-0.2	80.6		7.87		TAS				a_e		
CLL	44.06		P	13:33:40.161	-0.6	80.5		7.88		TAS		44.8	0.78	a_e	mb	5.3
CLL	44.06		pP	13:34:13.418	-0.3	80.6		7.87		TAS				a_e		
CLZ	45.62		P	13:33:52.911	0.1	80.5		7.88		TAS				a_e		
CLZ	45.62		pP	13:34:26.318	-0.8	80.6		7.87		TAS				a_e		
FLT1	45.03		P	13:33:47.511	-0.6	80.5		7.88		TAS		102.3	0.88	a_e	mb	5.8
FLT1	45.03		pP	13:34:20.768	0.0	80.6		7.87		TAS				a_e		
FUR	45.65		P	13:33:53.961	0.7	80.5		7.88		TAS		105.7	1.04	a_e	mb	5.8
FUR	45.65		pP	13:34:27.318	0.1	80.6		7.87		TAS				a_e		
GEC2	43.94		P	13:33:40.311	0.4	80.5		7.88		TAS		39.0	1.04	a_e	mb	5.1
GEC2	43.94		pP	13:34:13.668	0.1	80.6		7.87		TAS				a_e		
GOR1	44.91		P	13:33:47.361	0.5	80.5		7.88		TAS		71.1	1.04	a_e	mb	5.5
GOR1	44.91		pP	13:34:20.718	-0.2	80.6		7.87		TAS				a_e		
GRA1	45.41		P	13:33:52.361	0.8	80.5		7.88		TAS		69.8	0.91	a_e	mb	5.6
GRA1	45.41		pP	13:34:25.718	-0.1	80.6		7.87		TAS				a_e		
GTTG	45.91		P	13:33:55.411	0.2	80.5		7.88		TAS		117.5	0.87	a_e	mb	5.9
GTTG	45.91		pP	13:34:28.718	-0.2	80.6		7.87		TAS				a_e		
IBBN	47.15		P	13:34:04.611	-0.0	80.5		7.88		TAS		88.2	1.17	a_e	mb	5.8
IBBN	47.15		pP	13:34:38.068	-0.0	80.6		7.87		TAS				a_e		
KAST	46.93		P	13:34:02.846	-0.4	80.5		7.88		TAS		11.4	0.95	m_e	mb	5.0
MANZ	44.80		P	13:33:46.911	0.2	80.5		7.88		TAS		6.0	0.99	a_e	mb	4.5
MANZ	44.80		pP	13:34:20.268	-0.3	80.6		7.87		TAS				a_e		
MOX	45.02		P	13:33:48.311	-0.1	80.5		7.88		TAS		33.0	0.93	a_e	mb	5.2
MOX	45.02		pP	13:34:21.618	-0.8	80.6		7.87		TAS				a_e		
NEUB	44.84		P	13:33:46.561	-0.4	80.5		7.88		TAS		68.5	0.92	a_e	mb	5.6
NEUB	44.84		pP	13:34:19.868	-0.2	80.6		7.87		TAS				a_e		
NRDL	45.69		P	13:33:53.661	0.5	80.5		7.88		TAS		79.4	0.94	m_e	mb	5.7
NRDL	45.69		pP	13:34:26.968	0.3	80.6		7.87		TAS				a_e		
PLN	44.70		P	13:33:45.761	-0.1	80.5		7.88		TAS		20.5	0.84	a_e	mb	5.1
PLN	44.70		pP	13:34:19.118	0.7	80.6		7.87		TAS				a_e		
RETH	46.11		P	13:33:56.611	0.2	80.5		7.88		TAS		23.9	1.03	a_e	mb	5.2
RETH	46.11		pP	13:34:30.018	0.2	80.6		7.87		TAS				a_e		
RGN	43.59		P	13:33:36.711	1.0	80.5		7.88		TAS		240.4	0.99	a_e	mb	5.9
RGN	43.59		pP	13:34:09.968	0.8	80.6		7.87		TAS				a_e		
RJOB	44.72		P	13:33:45.779	-0.0	80.5		7.88		TAS		13.7	0.97	m_e	mb	4.8
RJOB	44.72		pP	13:34:19.318		80.6		7.87		TAS				a_e		
ROTZ	44.77		P	13:33:46.961	0.5	80.5		7.88		TAS		10.4	1.16	a_e	mb	4.7
ROTZ	44.77		pP	13:34:20.318	0.3	80.6		7.87		TAS				m_e		
RUE	43.46		P	13:33:33.497	-2.3	80.5		7.88		TAS		62.8	0.56	m_e	mb	5.5
RUE	43.46		pP	13:34:08.418	-0.5	80.6		7.87		TAS				a_e		
STU	46.89		P	13:34:03.211	0.1	80.5		7.88		TAS		66.5	0.79	a_e	mb	5.8

STU	46.89	pP	13:34:36.668	-0.2	80.6	7.87	TAS				a_e	
TANN	44.51	P	13:33:44.411	-0.0	80.5	7.88	TAS	26.2	0.97	a_e mb		5.1
TANN	44.51	pP	13:34:17.768	0.1	80.6	7.87	TAS			a_e		
TNS	47.08	P	13:34:04.411	-0.3	80.5	7.88	TAS	17.9	0.81	a_e mb		5.2
TNS	47.08	pP	13:34:37.918	-0.2	80.6	7.87	TAS			a_e		
UBBA	46.00	P	13:33:55.550	-0.6	80.5	7.88	TAS	12.7	0.74	m_e mb		5.0
UBBA	46.00	pP	13:34:29.318	-0.8	80.6	7.87	TAS			a_e		
UBR	46.52	P	13:34:00.110	0.1	80.5	7.88	TAS	91.3	1.26	m_e mb		5.8
UBR	46.52	pP	13:34:33.718	0.6	80.6	7.87	TAS			a_e		
WET	44.43	P	13:33:44.011	0.2	80.5	7.88	TAS	40.0	1.11	a_e mb		5.1
WET	44.43	pP	13:34:17.368	0.3	80.6	7.87	TAS			a_e		
WLF	48.65	P	13:34:16.861	-0.2	80.5	7.88	TAS	59.6	0.89	a_e mb		5.6
WLF	48.65	pP	13:34:50.268	0.0	80.6	7.87	TAS			a_e		

Event 81019007 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/19	15:20:32.63			-23.6600	-179.1010			518.2		8.7		28		148.95	154.93	m i ke	BGR
	81019013																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	154.68		PKPab	15:39:53.432		19.5		4.32		TAS					m_e
BRG	151.01		PKPbc	15:39:27.123	0.1	21.0		2.23		TAS					m_e
BRG	151.01		PKPab	15:39:37.750	-0.2	19.5		4.32		TAS					m_e
BSEG	148.95		PKPbc	15:39:22.096	-0.0	21.0		2.23		TAS					m_e
BSEG	148.95		PKPab	15:39:29.549	0.9	19.5		4.32		TAS					m_e
CLL	150.86		PKPbc	15:39:26.597	0.3	21.0		2.23		TAS					m_e
CLL	150.86		PKPab	15:39:37.229	-0.4	19.5		4.32		TAS					m_e
CLL	150.86		pPKPab	15:41:33.685	-0.2	19.1		4.40		TAS					m_e
CLZ	150.94		PKPbc	15:39:27.093	0.4	21.0		2.23		TAS					m_e
CLZ	150.94		PKPab	15:39:37.775	0.2	19.5		4.32		TAS					m_e
FLT1	150.30		PKPbc	15:39:25.127	0.0	21.0		2.23		TAS					m_e
FLT1	150.30		PKPab	15:39:34.419	-0.2	19.5		4.32		TAS					m_e
FLT1	150.30		pPKPbc	15:41:24.816						T__					m_e
FUR	154.19		PKPab	15:39:52.049		19.5		4.32		TAS					m_e
GEC2	152.91		PKPbc	15:39:30.984		21.0		2.23		TAS					m_e
GEC2	152.91		PKPab	15:39:46.029	0.8	19.5		4.32		TAS					m_e
GOR1	149.66		PKPbc	15:39:24.154	-0.2	21.0		2.23		TAS					m_e
GOR1	149.66		PKPab	15:39:33.014	-0.1	19.5		4.32		TAS					m_e
GRA1	152.78		PKPab	15:39:45.903	0.1	19.5		4.32		TAS					m_e
GRA1	152.78		pPKPab	15:41:42.517		19.1		4.40		TAS					m_e
GTTG	151.29		PKPbc	15:39:27.695	0.2	21.0		2.23		TAS					m_e
GTTG	151.29		PKPab	15:39:39.343	-0.2	19.5		4.32		TAS					m_e
IBBN	150.92		PKPbc	15:39:26.555	0.2	21.0		2.23		TAS					m_e

Magnitude Err Nsta Author OrigID
mb 4.4 BGR 81019014

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 79.10 P 17:42:32.024 34.4 4.67 TAS 3.3 0.84 m_e mb 4.4

Event 81020001 Azores Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/10/20 00:31:14.60 36.7310 -32.7720 33.0 34.09 34.09 m i ke BGR
81020007

Magnitude Err Nsta Author OrigID
mb 4.6 BGR 81020007

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 34.09 P 00:37:55.640 263.5 8.74 TAS 9.2 1.21 m_e mb 4.6

Event 81020003 Southeast of Loyalty Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2018/10/20 07:37:21.12 -22.2500 170.7200 30.1 27 145.01 150.42 m i ke BGR
81020009

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
BFO 150.42 PKPbc 07:57:09.323 -0.8 36.4 2.90 TAS m_e
BRG 146.17 PKPbc 07:56:57.793 -0.1 36.4 2.90 TAS m_e
BSEG 145.05 PKPbc 07:56:54.177 -0.5 36.4 2.90 TAS m_e
BUG 148.15 PKPbc 07:57:04.207 0.5 36.4 2.90 TAS m_e
CLL 146.22 PKPbc 07:56:57.750 -0.2 36.4 2.90 TAS m_e
CLZ 146.78 PKPbc 07:56:59.718 0.2 36.4 2.90 TAS m_e
FLT1 146.07 PKPbc 07:56:57.108 -0.4 36.4 2.90 TAS m_e
FLT1 146.07 pPKPbc 07:57:06.146 T__ m_e
GEC2 147.79 PKPbc 07:57:02.494 -0.3 36.4 2.90 TAS m_e
GOR1 145.50 PKPbc 07:56:55.524 -0.4 36.4 2.90 TAS m_e
GRA1 148.19 PKPbc 07:57:03.864 0.2 36.4 2.90 TAS m_e
GTTG 147.16 PKPbc 07:57:00.933 0.3 36.4 2.90 TAS m_e
IBBN 147.25 PKPbc 07:57:01.311 0.2 36.4 2.90 TAS m_e
KAST 147.98 PKPbc 07:57:02.978 -0.1 36.4 2.90 TAS m_e
MANZ 147.60 PKPbc 07:57:02.115 0.1 36.4 2.90 TAS m_e
MOX 147.28 PKPbc 07:57:01.670 0.7 36.4 2.90 TAS m_e

NEUB	146.79	PKPbc	07:57:00.008	0.5	36.4	2.90	TAS	m_e
NRDL	146.33	PKPbc	07:56:58.283	0.0	36.4	2.90	TAS	m_e
PLN	147.19	PKPbc	07:57:00.741	-0.0	36.4	2.90	TAS	m_e
RETH	146.37	PKPbc	07:56:58.559	0.1	36.4	2.90	TAS	m_e
RJOB	149.01	PKPbc	07:57:06.592	0.2	36.4	2.90	TAS	m_e
ROTZ	147.73	PKPbc	07:57:02.359	-0.0	36.4	2.90	TAS	m_e
RUE	145.01	PKPbc	07:56:54.272	-0.1	36.4	2.90	TAS	m_e
TANN	147.13	PKPbc	07:57:00.713	0.1	36.4	2.90	TAS	m_e
TNS	148.80	PKPbc	07:57:05.456	0.0	36.4	2.90	TAS	m_e
UBBA	147.75	PKPbc	07:57:02.725	0.4	36.4	2.90	TAS	m_e
WET	147.93	PKPbc	07:57:02.810	-0.2	36.4	2.90	TAS	m_e
WLF	150.05	PKPbc	07:57:08.777	-0.3	36.4	2.90	TAS	m_e

Event 81020004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/20	09:22:25.38			-18.4400	-177.8800				600.0			22		144.01	150.11	m i ke	BGR
	81020010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.76		PKPbc	09:41:07.857		14.7		2.79		TAS					m_e
BRG	146.30		PKPbc	09:40:58.895	0.5	14.7		2.79		TAS					m_e
BSEG	144.01		PKPbc	09:40:51.938	-0.2	14.7		2.79		TAS					m_e
CLL	146.09		PKPbc	09:40:58.434	0.2	14.7		2.79		TAS					m_e
CLZ	146.04		PKPbc	09:40:58.390	0.1	14.7		2.79		TAS					m_e
FLT1	145.43		PKPbc	09:40:56.225	0.0	14.7		2.79		TAS					m_e
FUR	149.43		PKPbc	09:41:07.563		14.7		2.79		TAS					m_e
GEC2	148.25		PKPbc	09:41:04.141		14.7		2.79		TAS					m_e
GRA1	147.97		PKPbc	09:41:03.817		14.7		2.79		TAS					m_e
GTTG	146.39		PKPbc	09:40:59.857	0.3	14.7		2.79		TAS					m_e
IBBN	145.91		PKPbc	09:40:57.851		14.7		2.79		TAS					m_e
KAST	146.93		PKPbc	09:41:00.530	-0.5	14.7		2.79		TAS					m_e
MANZ	147.52		PKPbc	09:41:02.714		14.7		2.79		TAS					m_e
MOX	146.99		PKPbc	09:41:00.641		14.7		2.79		TAS					m_e
NRDL	145.44		PKPbc	09:40:56.540	0.1	14.7		2.79		TAS					m_e
PLN	147.04		PKPbc	09:41:01.017		14.7		2.79		TAS					m_e
RJOB	149.50		PKPbc	09:41:08.520		14.7		2.79		TAS					m_e
ROTZ	147.71		PKPbc	09:41:03.232		14.7		2.79		TAS					m_e
TANN	147.04		PKPbc	09:41:01.101		14.7		2.79		TAS					m_e
TNS	147.89		PKPbc	09:41:03.632		14.7		2.79		TAS					m_e
UBR	150.11		PKPbc	09:41:09.183		14.7		2.79		TAS					m_e
WLF	148.68		PKPbc	09:41:05.969		14.7		2.79		TAS					m_e

Event 81020006 Banda Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/20	09:47:52.60			-6.5680	128.2700				352.0				9	110.77	114.55	m i ke	NEIC
OrigID 81020045																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	114.55		PKiKP	10:05:49.461		83.3		2.05		TAS					m_e
CLL	110.77		PKiKP	10:05:43.700	-0.5	83.3		2.05		TAS					m_e
CLZ	112.18		PKiKP	10:05:46.938		83.3		2.05		TAS					m_e
GEC2	110.99		PKiKP	10:05:43.222	-0.1	83.3		2.05		TAS					m_e
MANZ	111.69		PKiKP	10:05:44.559		83.3		2.05		TAS					m_e
RJOB	111.86		PKiKP	10:05:44.458		83.3		2.05		TAS					m_e
TNS	113.86		PKiKP	10:05:50.179		83.3		2.05		TAS					m_e
UBR	113.62		PKiKP	10:05:49.363		83.3		2.05		TAS					m_e
WET	111.44		PKiKP	10:05:43.940	0.4	83.3		2.05		TAS					m_e

Event 81020005 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/20	09:51:26.46			50.3800	154.1900				33.0				25	72.97	77.96	m i ke	BGR
OrigID 81020011																	

Magnitude Err Nsta Author OrigID

mb 4.7 BGR 81020011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	76.42		P	10:03:14.136		23.6		5.75		TAS		10.0	1.14	m_e mb	4.8
BFO	77.38		P	10:03:18.361		23.6		5.75		TAS		7.1	0.73	m_e mb	4.9
BRG	73.59		P	10:02:57.761	-0.5	23.6		5.75		TAS		6.2	1.32	m_e mb	4.5
CLL	73.45		P	10:02:55.763	0.2	23.6		5.75		TAS		8.7	0.99	m_e mb	4.8
CLZ	73.63		P	10:02:57.986	-0.4	23.6		5.75		TAS		7.0	0.84	m_e mb	4.7
DAVA	77.96		P	10:03:22.092		23.6		5.75		TAS		14.6	0.95	m_e mb	5.1
FLT1	72.97		P	10:02:53.696	0.3	23.6		5.75		TAS		7.7	1.01	m_e mb	4.8
GEC2	75.50		P	10:03:08.284	-0.5	23.6		5.75		TAS		3.0	0.69	m_e mb	4.4
GRA1	75.39		P	10:03:07.724	0.1	23.6		5.75		TAS		9.0	0.63	m_e mb	5.0
KAST	74.69		P	10:03:03.264	0.2	23.6		5.75		TAS		4.6	0.95	m_e mb	4.5
KBA	77.21		P	10:03:19.010		23.6		5.75		TAS		26.1	0.70	m_e mb	5.5
MANZ	74.89		P	10:03:04.567	-0.3	23.6		5.75		TAS		1.8	1.31	m_e mb	3.9
MOX	74.42		P	10:03:02.623	0.6	23.6		5.75		TAS		4.1	0.61	m_e mb	4.6
NRDL	73.09		P	10:02:54.902	0.4	23.6		5.75		TAS		5.4	0.95	m_e mb	4.7
OBKA	77.38		P	10:03:18.767		23.6		5.75		TAS		10.0	0.58	m_e mb	5.1

PLN	74.42	P	10:03:01.628	-0.3	23.6	5.75	TAS	8.6	1.42	m_e	mb	4.6
RETH	73.04	P	10:02:54.471	-0.6	23.6	5.75	TAS	3.5	0.88	m_e	mb	4.5
RJOB	76.76	P	10:03:15.894		23.6	5.75	TAS	5.4	1.08	m_e	mb	4.6
ROTZ	75.07	P	10:03:06.309	-0.9	23.6	5.75	TAS	1.1	1.03	m_e	mb	3.8
TNS	75.59	P	10:03:08.683		23.6	5.75	TAS	8.0	0.76	m_e	mb	4.9
UBBA	74.66	P	10:03:03.869	1.5	23.6	5.75	TAS	3.3	0.81	m_e	mb	4.4
UBR	77.53	P	10:03:19.556		23.6	5.75	TAS	5.0	0.81	m_e	mb	4.7
WET	75.45	P	10:03:08.254	-0.6	23.6	5.75	TAS	4.2	0.81	m_e	mb	4.5
WLF	76.65	P	10:03:16.421		23.6	5.75	TAS	5.3	0.74	m_e	mb	4.8
WTTA	77.51	P	10:03:20.109		23.6	5.75	TAS	26.0	1.04	m_e	mb	5.3

Event 81020007 Southern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/20	10:47:43.80			41.3680	82.0940				14.4			26		46.62	50.89	m i ke	BGR
	81020013																

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	81020013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	50.89		P	10:56:42.266		71.3		7.72		TAS		5.8	0.99	m_e	mb	4.5
BRG	46.62		P	10:56:09.443	0.2	71.3		7.72		TAS		13.0	1.39	m_e	mb	4.9
BSEG	47.92		P	10:56:19.813	0.5	71.3		7.72		TAS		20.2	1.51	m_e	mb	5.0
CLL	47.07		P	10:56:12.148	-0.7	71.3		7.72		TAS		11.7	0.89	m_e	mb	5.0
FLT1	47.83		P	10:56:17.943	-0.1	71.3		7.72		TAS		9.1	0.94	m_e	mb	4.9
FUR	49.11		P	10:56:29.776		71.3		7.72		TAS		27.4	1.25	m_e	mb	5.1
GEC2	47.36		P	10:56:15.780	0.0	71.3		7.72		TAS		7.2	1.15	m_e	mb	4.7
GOR1	47.61		P	10:56:17.695	-0.4	71.3		7.72		TAS		17.9	0.92	m_e	mb	5.2
GRA1	48.64		P	10:56:26.007	-0.1	71.3		7.72		TAS		15.6	0.89	m_e	mb	5.0
GRA1	48.64		pP	10:56:29.882						T__				m_e		
GTTG	48.82		P	10:56:26.845	-0.4	71.3		7.72		TAS		22.2	0.87	m_e	mb	5.2
IBBN	49.88		P	10:56:34.395		71.3		7.72		TAS		8.8	0.75	m_e	mb	4.8
KAST	49.85		P	10:56:34.151		71.3		7.72		TAS		4.5	0.94	m_e	mb	4.4
MANZ	48.00		P	10:56:20.739	0.5	71.3		7.72		TAS		1.2	1.11	m_e	mb	4.0
MOX	48.10		P	10:56:21.181	0.2	71.3		7.72		TAS		5.7	1.02	m_e	mb	4.6
NEUB	47.84		P	10:56:18.831	0.8	71.3		7.72		TAS		14.1	0.49	m_e	mb	5.4
NRDL	48.45		P	10:56:23.999	-0.0	71.3		7.72		TAS		14.8	1.01	m_e	mb	5.1
PLN	47.82		P	10:56:19.155	0.2	71.3		7.72		TAS		4.5	0.90	m_e	mb	4.6
RETH	48.81		P	10:56:26.515	0.2	71.3		7.72		TAS		4.5	0.86	m_e	mb	4.5
RJOB	48.29		P	10:56:23.346	0.7	71.3		7.72		TAS		5.1	1.58	m_e	mb	4.4
ROTZ	48.01		P	10:56:20.856	0.3	71.3		7.72		TAS		1.4	1.24	m_e	mb	4.0
TANN	47.65		P	10:56:17.236	0.9	71.3		7.72		TAS		7.4	0.92	m_e	mb	4.8
TNS	50.15		P	10:56:36.750		71.3		7.72		TAS		9.8	1.26	m_e	mb	4.6
UBBA	49.02		P	10:56:28.146	-0.6	71.3		7.72		TAS		3.8	1.08	m_e	mb	4.3
UBR	50.01		P	10:56:36.156		71.3		7.72		TAS		17.6	1.09	m_e	mb	4.9

WET	47.78	P	10:56:18.725	0.2	71.3	7.72	TAS	3.5	0.81	m_e	mb	4.5
WTTA	49.19	P	10:56:29.456		71.3	7.72	TAS			m_e		

Event 81020008 Northern Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/20	18:42:38.90			-3.1600	-74.3100				123.5			31		86.22	92.18	m i ke	BGR
OrigID 81020014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	81020014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	92.18		P	18:55:35.613		264.7		4.74		TAS				m_e		
BFO	87.44		P	18:55:13.515	-0.3	264.7		4.74		TAS		5.6	1.06	m_e	mb	4.6
BRG	91.32		P	18:55:31.992		264.7		4.74		TAS		3.8	0.85	m_e	mb	4.8
BSEG	89.36		P	18:55:22.443	-0.2	264.7		4.74		TAS		9.8	0.93	m_e	mb	5.0
BUG	87.20		P	18:55:12.457	-0.1	264.7		4.74		TAS		9.1	0.82	m_e	mb	4.9
CLL	90.76		P	18:55:29.084		264.7		4.74		TAS		3.0	0.96	m_e	mb	4.6
CLZ	89.17		P	18:55:21.876	0.3	264.7		4.74		TAS		5.5	0.96	m_e	mb	4.8
DAVA	88.36		P	18:55:18.267	0.1	264.7		4.74		TAS				m_e		
FLT1	89.75		P	18:55:24.199	0.1	264.7		4.74		TAS		9.3	1.07	m_e	mb	4.9
FUR	89.38		P	18:55:23.285	-0.5	264.7		4.74		TAS		7.1	0.72	m_e	mb	5.0
GEC2	91.04		P	18:55:30.400		264.7		4.74		TAS		4.9	1.08	m_e	mb	4.8
GRA1	89.49		P	18:55:23.302	0.1	264.7		4.74		TAS		4.8	1.03	m_e	mb	4.7
GTTG	88.89		P	18:55:20.822	-0.1	264.7		4.74		TAS		6.8	0.95	m_e	mb	4.8
IBBN	87.63		P	18:55:14.394	-0.2	264.7		4.74		TAS		10.4	1.06	m_e	mb	5.1
KAST	87.88		P	18:55:15.426	-0.4	264.7		4.74		TAS		3.9	0.92	m_e	mb	4.7
MANZ	90.09		P	18:55:26.397	0.5	264.7		4.74		TAS		1.6	1.02	m_e	mb	4.2
MOA	91.36		P	18:55:31.664		264.7		4.74		TAS				m_e		
MOX	89.83		P	18:55:25.149	-0.1	264.7		4.74		TAS		2.8	0.92	m_e	mb	4.5
NRDL	89.08		P	18:55:22.116	-0.4	264.7		4.74		TAS		9.4	0.99	m_e	mb	5.0
PLN	90.16		P	18:55:26.585	-0.5	264.7		4.74		TAS		7.8	1.19	m_e	mb	4.8
RETH	88.66		P	18:55:19.805	0.2	264.7		4.74		TAS		22.8	1.38	m_e	mb	5.2
RGN	91.17		P	18:55:31.849		264.7		4.74		TAS		171.0	1.22	m_e	mb	6.2
ROTZ	90.13		P	18:55:26.386	-0.4	264.7		4.74		TAS		1.2	0.96	m_e	mb	4.1
RUE	91.32		P	18:55:31.960		264.7		4.74		TAS		13.4	1.15	m_e	mb	5.2
STU	88.07		P	18:55:16.890	0.1	264.7		4.74		TAS		24.0	1.09	m_e	mb	5.4
TANN	90.35		P	18:55:27.875	0.5	264.7		4.74		TAS		8.0	1.13	m_e	mb	4.8
TNS	87.77		P	18:55:15.499	0.2	264.7		4.74		TAS		16.9	1.42	m_e	mb	5.2
UBR	88.55		P	18:55:19.131	0.3	264.7		4.74		TAS		21.1	1.23	m_e	mb	5.2
WET	90.52		P	18:55:28.873	-0.1	264.7		4.74		TAS		2.9	1.03	m_e	mb	4.5
WET	90.52		pP	18:56:00.656						T__				m_e		
WLF	86.22		P	18:55:08.150	0.1	264.7		4.74		TAS		29.4	1.10	m_e	mb	5.3
WTTA	89.54		P	18:55:23.784	0.2	264.7		4.74		TAS				m_e		

Event 81020009 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/20	18:51:58.60			5.2300	126.5300				89.0			20		99.44	103.54	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
BRG	99.92		Pdiff	19:05:33.519	-0.3	68.0		4.55		TAS					m_e
BSEG	100.78		Pdiff	19:05:37.538	-0.6	68.0		4.55		TAS					m_e
BUG	103.54		Pdiff	19:05:49.938		68.0		4.55		TAS					m_e
CLL	100.31		Pdiff	19:05:35.024	-0.1	68.0		4.55		TAS					m_e
CLZ	101.62		Pdiff	19:05:41.462	0.1	68.0		4.55		TAS					m_e
FLT1	100.93		Pdiff	19:05:37.709	-0.0	68.0		4.55		TAS					m_e
GEC2	100.79		Pdiff	19:05:36.787	-0.3	68.0		4.55		TAS					m_e
GOR1	100.63		Pdiff	19:05:36.918	-0.5	68.0		4.55		TAS					m_e
GRA1	101.98		Pdiff	19:05:42.919		68.0		4.55		TAS					m_e
GTTG	101.97		Pdiff	19:05:43.348		68.0		4.55		TAS					m_e
IBBN	102.88		Pdiff	19:05:47.249		68.0		4.55		TAS					m_e
MANZ	101.34		Pdiff	19:05:40.009	0.0	68.0		4.55		TAS					m_e
MOX	101.38		Pdiff	19:05:40.509	0.4	68.0		4.55		TAS					m_e
NEUB	101.07		Pdiff	19:05:38.693	0.1	68.0		4.55		TAS					m_e
NRDL	101.50		Pdiff	19:05:41.274	0.1	68.0		4.55		TAS					m_e
PLN	101.12		Pdiff	19:05:38.979	0.1	68.0		4.55		TAS					m_e
RJOB	101.76		Pdiff	19:05:41.696	0.4	68.0		4.55		TAS					m_e
ROTZ	101.36		Pdiff	19:05:40.004	0.4	68.0		4.55		TAS					m_e
RUE	99.44		Pdiff	19:05:31.843	0.1	68.0		4.55		TAS					m_e
TANN	100.97		Pdiff	19:05:38.207	-0.1	68.0		4.55		TAS					m_e
WET	101.19		Pdiff	19:05:39.212	0.1	68.0		4.55		TAS					m_e

Event 81024004 Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/24	11:29:01.40			-16.4830	177.9660				10.0					145.18	145.18	m i ke	NEIC

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.18		PKPbc	11:48:38.273		22.6		3.13		TAS					m_e

Event 81024007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/24	18:12:28.18			-17.5190	-178.1240				600.0			12		143.07	149.17	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.82		PKPbc	18:31:08.839		16.5		2.76		TAS					m_e
BRG	145.35		PKPbc	18:30:59.720	-0.4	16.5		2.76		TAS					m_e
BSEG	143.07		PKPbc	18:30:52.849	-0.1	16.5		2.76		TAS					m_e
CLL	145.14		PKPbc	18:30:58.986	0.3	16.5		2.76		TAS					m_e
CLZ	145.10		PKPbc	18:30:59.335	-0.4	16.5		2.76		TAS					m_e
GEC2	147.31		PKPbc	18:31:05.016		16.5		2.76		TAS					m_e
MANZ	146.58		PKPbc	18:31:03.244		16.5		2.76		TAS					m_e
PLN	146.09		PKPbc	18:31:01.837		16.5		2.76		TAS					m_e
ROTZ	146.77		PKPbc	18:31:03.916		16.5		2.76		TAS					m_e
TNS	146.95		PKPbc	18:31:04.357		16.5		2.76		TAS					m_e
UBR	149.17		PKPbc	18:31:09.778		16.5		2.76		TAS					m_e
WLF	147.75		PKPbc	18:31:06.946		16.5		2.76		TAS					m_e

Event 81025001 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/25	22:54:47.67	0.66	1.54	37.3310	21.1990	33.4	13.3	47	10.0			42	328	10.27	19.19	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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mb	6.3		BGR	81025007
Ms	6.2		BGR	81025007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.76		P	22:57:19.170	-1.8					T__					m_e
BFO	14.47		Sn	23:00:43.385	0.0					T__					m_e
BFO	14.47		P	22:58:09.738	-1.1					T__		1536.1	1.03	m_e	
BRG	14.50		P	22:58:11.787	0.6					T__		1324.5	1.20	m_e	
BSEG	18.23		P	22:58:58.651	-0.2					T__		2683.4	1.34	m_e mb	6.2
BUD	10.27		P	22:57:12.417	-1.9					T__				m_e	
BUG	17.22		P	22:58:48.786	2.4					T__		1581.8	1.11	m_e mb	6.0
CLL	15.14		P	22:58:20.754	1.1					T__		5719.0	1.61	m_e	
CLZ	16.40		P	22:58:37.786	1.7					T__		4046.5	1.39	m_e mb	6.4
DAVA	12.99		Sn	23:00:09.651	1.3					T__				m_e	
DAVA	12.99		P	22:57:50.917	-0.2					T__				m_e	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	10.03		P	00:16:07.495	-3.9	144.0		14.69		TAS				m_e		
BFO	13.76		P	00:17:04.131		144.0		14.69		TAS				m_e		
CLL	14.40		P	00:17:14.662		144.0		14.69		TAS		59.6	1.19	m_e		
CLZ	15.67		P	00:17:28.125		144.0		14.69		TAS				m_e		
DAVA	12.28		Sn	00:18:53.823	0.8					T__				m_e		
DAVA	12.28		P	00:16:39.147	-3.1	144.0		14.69		TAS				m_e		
GEC2	12.00		P	00:16:35.543	-1.1	144.0		14.69		TAS				m_e		
KBA	10.61		P	00:16:22.119	-2.3	144.0		14.69		TAS				m_e		
MANZ	13.51		P	00:17:02.453		144.0		14.69		TAS				m_e		
MOA	10.95		P	00:16:19.114	2.6	144.0		14.69		TAS				m_e		
NEUB	14.66		P	00:17:18.720		144.0		14.69		TAS				m_e		
NRDL	16.31		P	00:17:38.263		144.0		14.69		TAS		35.4	1.21	m_e		
OBKA	9.69		Sn	00:17:48.661	-2.8					T__				m_e		
OBKA	9.69		P	00:16:02.086	-2.9	144.0		14.69		TAS				m_e		
PLN	13.92		P	00:17:08.595		144.0		14.69		TAS				m_e		
PLONS	12.36		Sn	00:18:57.173	2.2					T__				m_e		
PLONS	12.36		P	00:16:40.131		144.0		14.69		TAS				m_e		
RJOB	11.37		Sn	00:18:31.731	0.4					T__				m_e		
RJOB	11.37		P	00:16:27.884	1.7	144.0		14.69		TAS				m_e		
ROTZ	13.29		P	00:17:00.441		144.0		14.69		TAS				m_e		
TANN	13.77		P	00:17:08.117		144.0		14.69		TAS				m_e		
TNS	15.08		P	00:17:23.114		144.0		14.69		TAS		53.9	0.95	m_e		
UBR	12.46		P	00:16:47.309		144.0		14.69		TAS				m_e		
WILA	12.85		P	00:16:56.003		144.0		14.69		TAS				m_e		
WLF	15.72		P	00:17:27.735		144.0		14.69		TAS				m_e		

Event	81026005	Greece																	
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author		
2018/10/26	00:23:20.49	0.96	2.53	38.0980	21.5910	80.1	27.8	64	10.0			12	341	9.89	17.63	m i ke	BGR		
	81026011																		

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	10.18		P	00:25:42.849	-3.0					T__				m_e		
BALST	13.75		P	00:26:36.658	2.5					T__				m_e		
BSEG	17.63		P	00:27:22.485	0.0					T__		324.4	2.48	m_e mb	5.0	
CLL	14.54		P	00:26:49.294	0.0					T__		21.4	0.92	m_e		
DAVA	12.58		P	00:26:19.891	1.5					T__				m_e		
GEC2	12.17		Sn	00:28:21.130	-0.4					T__				m_e		

KBA	10.83	Sn	00:27:49.065	-0.8	T__	m_e
MOA	11.12	Sn	00:28:00.273	3.6	T__	m_e
MOA	11.12	P	00:25:56.496	-2.1	T__	m_e
NEUB	14.82	P	00:26:51.426	0.0	T__	m_e
OBKA	9.89	Sn	00:27:28.562	1.1	T__	m_e
OBKA	9.89	P	00:25:40.120	-1.8	T__	m_e
PLONS	12.68	Sn	00:28:29.567	-4.1	T__	m_e
RJOB	11.58	Sn	00:28:07.133	-0.6	T__	m_e
RJOB	11.58	P	00:26:02.345	-2.6	T__	m_e
WET	12.71	Sn	00:28:36.952	2.6	T__	m_e
WILA	13.16	P	00:26:31.589	5.4	T__	m_e
WLF	16.01	P	00:27:04.001	0.0	T__	214.3 2.27 m_e
WTTA	11.72	Sn	00:28:09.569	-1.4	T__	m_e
WTTA	11.72	P	00:26:06.634	-0.1	T__	m_e

Event 81026006 Ionian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	00:33:04.14	1.49	4.75	37.9310	19.7330	241.3	103.4	73	10.0			12	344	9.39	17.27	m i ke	BGR
OrigID 81026012																	

Magnitude Err Nsta Author OrigID
 mb 4.6 BGR 81026012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	13.30		P	00:36:10.257	-1.5					T__				m_e	
BSEG	17.27		P	00:37:00.918						T__		74.5	1.37	m_e mb	4.6
CLZ	15.39		P	00:36:42.611						T__		204.2	1.70	m_e	
GEC2	11.75		P	00:35:46.285	-4.6					T__				m_e	
GRA1	13.25		P	00:36:19.303	8.2					T__				m_e	
MOX	13.96		P	00:36:16.047	-4.5					T__				m_e	
OBKA	9.39	Sn		00:36:59.567	0.2					T__				m_e	
OBKA	9.39	P		00:35:14.854	-4.0					T__				m_e	
PLN	13.67		P	00:36:22.379	5.8					T__				m_e	
RJOB	11.04		P	00:35:38.325	-2.9					T__				m_e	
ROTZ	13.01		P	00:36:03.652	-4.2					T__				m_e	
SLE	12.82		P	00:36:03.381	-1.8					T__				m_e	
TANN	13.52		P	00:36:22.198	7.6					T__				m_e	
TNS	14.70		P	00:36:35.948	5.6					T__				m_e	
WET	12.25		P	00:35:53.794	-3.9					T__				m_e	
WLF	15.26		P	00:36:40.892						T__		75.8	0.95	m_e	

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	01:06:09.08	0.94	1.60	38.0390	21.9470	66.7	20.0	52	10.0			10	341	10.08	16.23	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	81026013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.35		P	01:08:37.342	0.6					T__					m_e
BALST	13.99		P	01:09:29.694	3.8					T__					m_e
DAVA	12.80		Sn	01:11:23.787	-1.5					T__					m_e
DAVA	12.80		P	01:09:09.636	-0.3					T__					m_e
KBA	11.03		Sn	01:10:44.938	1.8					T__					m_e
KBA	11.03		P	01:08:45.438	-0.6					T__					m_e
MOA	11.30		P	01:08:49.728	0.1					T__					m_e
OBKA	10.08		P	01:08:32.930	-0.2					T__					m_e
PLONS	12.91		Sn	01:11:27.781	0.1					T__					m_e
PLONS	12.91		P	01:09:08.408	-3.0					T__					m_e
RJOB	11.78		Sn	01:11:01.251	0.3					T__					m_e
RJOB	11.78		P	01:08:54.126	-2.0					T__					m_e
WLF	16.23		P	01:09:57.398	2.0					T__		42.3	0.90	m_e mb	4.6
WTTA	11.93		Sn	01:11:04.099	-0.5					T__					m_e
WTTA	11.93		P	01:08:57.674	-0.6					T__					m_e

Event 81026008 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	02:17:35.25	0.95	1.62	37.7350	21.0040	46.7	18.9	55	10.0			9	342	9.99	16.01	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	81026014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.33		Sn	02:21:54.903	2.2					T__					m_e
ARSA	10.33		P	02:20:02.860	0.1					T__					m_e
GEC2	12.31		P	02:20:30.425	1.0					T__					m_e
KBA	10.91		Sn	02:22:05.129	-1.4					T__					m_e
KBA	10.91		P	02:20:09.916	-0.7					T__					m_e
MOA	11.25		Sn	02:22:14.243	-0.3					T__					m_e
MOA	11.25		P	02:20:14.596	-0.6					T__					m_e
OBKA	9.99		Sn	02:21:42.231	-2.4					T__					m_e
OBKA	9.99		P	02:19:57.230	-0.9					T__					m_e
PLONS	12.65		Sn	02:22:46.916	-1.0					T__					m_e
PLONS	12.65		P	02:20:34.667	0.5					T__					m_e

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ROTZ	76.72	P	03:16:51.135	0.3	30.9	5.64	TAS	11.8	1.11	a_e	mb	4.9
RUE	73.90	P	03:16:35.019	-0.6	30.9	5.64	TAS	114.4	1.09	m_e	mb	5.8
STU	78.58	P	03:17:01.348	0.3	30.9	5.64	TAS	191.9	1.10	m_e	mb	6.0
TANN	76.08	P	03:16:47.185	-0.1	30.9	5.64	TAS	38.5	1.33	m_e	mb	5.4
TNS	77.56	P	03:16:55.535	0.3	30.9	5.64	TAS	62.9	1.22	a_e	mb	5.6
TNS	77.56	L	03:54:43.439				T__	1136.7	21.20	a_e	Ms	5.2
UBBA	76.55	P	03:16:49.785	0.0	30.9	5.64	TAS	44.9	1.32	a_e	mb	5.4
UBR	79.23	P	03:17:04.431		30.9	5.64	TAS	36.5	1.30	m_e	mb	5.2
WET	77.02	P	03:16:52.885	0.0	30.9	5.64	TAS	83.6	1.11	a_e	mb	5.8
WET	77.02	L	03:52:27.562				T__	1817.5	21.10	a_e	Ms	5.4
WLF	78.75	P	03:17:02.275	0.3	30.9	5.64	TAS	44.9	1.33	m_e	mb	5.3

Event 81026009 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	05:48:41.02	0.86	2.88	37.8810	21.4280	92.3	31.1	59	10.0			11	343	10.01	15.98	m i ke	BGR
81026015																	

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 81026015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.32		P	05:51:06.424	-2.0					T__				m_e	
BFO	14.14		P	05:51:56.255	-3.3					T__				m_e	
CLZ	15.98		P	05:52:24.078						T__		207.8	1.50	m_e mb	5.0
DAVA	12.67		Sn	05:53:49.417	-4.5					T__				m_e	
DAVA	12.67		P	05:51:40.592	0.5					T__				m_e	
KBA	10.95		Sn	05:53:13.794	0.5					T__				m_e	
KBA	10.95		P	05:51:15.666	-1.3					T__				m_e	
MOA	11.26		Sn	05:53:21.412	0.9					T__				m_e	
MOA	11.26		P	05:51:18.746	-2.3					T__				m_e	
OBKA	10.01		Sn	05:52:54.387	3.4					T__				m_e	
OBKA	10.01		P	05:51:02.643	-1.6					T__				m_e	
PLONS	12.76		Sn	05:53:55.438	-0.6					T__				m_e	
PLONS	12.76		P	05:51:39.049	-2.2					T__				m_e	
RJOB	11.70		Sn	05:53:30.513	-0.6					T__				m_e	
RJOB	11.70		P	05:51:27.427	0.3					T__				m_e	
UBR	12.83		P	05:51:45.493	3.2					T__				m_e	
WILA	13.24		P	05:51:56.413	8.6					T__				m_e	
WTTA	11.82		Sn	05:53:34.854	0.9					T__				m_e	
WTTA	11.82		P	05:51:28.689	-0.0					T__				m_e	

Event 81026010 Southern Greece

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	06:20:54.20	1.07	1.29	37.8820	21.1830	51.1	17.8	60	10.0			9	342	9.92	15.98	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	81026016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.25		P	06:23:19.664	-0.9					T__				m_e	
DAVA	12.54		P	06:23:52.276	0.7					T__				m_e	
GEC2	12.23		Sn	06:25:57.937	1.2					T__				m_e	
KBA	10.85		Sn	06:25:22.483	-1.6					T__				m_e	
KBA	10.85		P	06:23:29.435	0.7					T__				m_e	
MOA	11.17		Sn	06:25:31.251	-0.4					T__				m_e	
MOA	11.17		P	06:23:32.367	-0.7					T__				m_e	
OBKA	9.92		Sn	06:25:02.086	0.1					T__				m_e	
OBKA	9.92		P	06:23:14.045	-2.1					T__				m_e	
PLONS	12.63		Sn	06:26:05.369	-0.9					T__				m_e	
RJOB	11.61		Sn	06:25:44.020	2.0					T__				m_e	
WLF	15.98		P	06:24:42.573	0.0					T__		45.3	1.03	m_e mb	4.5
WTTA	11.71		Sn	06:25:44.023	-0.5					T__				m_e	
WTTA	11.71		P	06:23:42.749	2.4					T__				m_e	

Event 81026018 Mariana Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	09:05:42.20			17.3800	147.8000				30.0			9		100.18	105.26	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms	5.8		BGR	81026024

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	105.26		Pdiff	09:19:47.440						T__				m_e	
BFO	105.26		L	10:15:08.709						T__		2043.6	18.70	a_e Ms	5.7
BRG	100.92		Pdiff	09:19:27.548						T__				m_e	
BRG	100.92		PP	09:23:36.312						T__				m_e	
BSEG	100.18		L	10:13:23.788						T__		3412.2	20.20	a_e Ms	5.8
BUG	103.29		PP	09:23:54.011						T__				m_e	
CLL	101.03		Pdiff	09:19:28.262						T__				m_e	
CLL	101.03		PP	09:23:37.667						T__				m_e	
CLL	101.03		L	10:12:17.608						T__		2918.4	18.60	a_e Ms	5.8
CLZ	101.74		PP	09:23:42.706						T__				m_e	
FLT1	101.02		PP	09:23:36.406						T__				m_e	
FUR	104.09		L	10:11:57.507						T__		3063.2	19.80	a_e Ms	5.8

GEC2	102.48	PP	09:23:49.241	T__	268.8	1.51	m_e												
GEC2	102.48	L	10:10:12.197	T__	3635.7	21.10	a_e Ms												5.9
GOR1	100.50	PP	09:23:34.074	T__			m_e												
GRA1	102.98	L	10:12:02.549	T__	3484.4	18.40	a_e Ms												5.9
KAST	103.02	PP	09:23:51.950	T__			m_e												
MANZ	102.38	Pdiff	09:19:34.747	T__			m_e												
MANZ	102.38	PP	09:23:48.358	T__			m_e												
MOX	102.11	Pdiff	09:19:33.257	T__			m_e												
MOX	102.11	PP	09:23:45.444	T__	429.7	2.02	m_e												
MOX	102.11	L	10:10:17.972	T__	3596.4	20.40	a_e Ms												5.9
NRDL	101.35	PP	09:23:39.435	T__			m_e												
PLN	101.99	Pdiff	09:19:32.900	T__			m_e												
PLN	101.99	PP	09:23:45.238	T__			m_e												
RETH	101.47	PP	09:23:41.234	T__			m_e												
RJOB	103.70	PP	09:23:58.544	T__			m_e												
ROTZ	102.50	Pdiff	09:19:35.398	T__			m_e												
ROTZ	102.50	PP	09:23:49.096	T__			m_e												
TANN	101.91	Pdiff	09:19:32.686	T__			m_e												
TANN	101.91	PP	09:23:44.590	T__			m_e												
TNS	103.76	PP	09:23:57.720	T__			m_e												
TNS	103.76	L	10:09:09.181	T__	3267.7	21.30	a_e Ms												5.8
WET	102.64	Pdiff	09:19:35.896	T__			m_e												
WET	102.64	PP	09:23:50.360	T__			m_e												
WET	102.64	L	10:10:36.078	T__	4096.7	19.90	a_e Ms												6.0

Event 81026011 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	11:26:34.21	1.13	1.16	37.9190	21.2270	63.4	16.7	56	10.0				7 344	9.91	15.88	m i ke	BGR
81026017																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	81026017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.23		P	11:28:59.275	-1.0					T__					
CLZ	15.88		P	11:30:21.198						T__		41.0	1.35	m_e mb	4.4
DAVA	12.54		Sn	11:31:43.834	-0.2					T__				m_e	
KBA	10.84		Sn	11:31:02.455	-1.3					T__				m_e	
KBA	10.84		P	11:29:09.086	0.5					T__				m_e	
MOA	11.16		Sn	11:31:12.413	1.2					T__				m_e	
MOA	11.16		P	11:29:12.356	-0.5					T__				m_e	
OBKA	9.91		Sn	11:30:43.560	2.0					T__				m_e	
OBKA	9.91		P	11:28:55.278	-0.7					T__				m_e	
RJOB	11.59		Sn	11:31:20.160	-1.5					T__				m_e	
RJOB	11.59		P	11:29:18.234	-0.5					T__				m_e	

Event 81026019 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	18:29:49.40			-18.1400	-177.9200				575.0				8	143.71	149.81	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
				81026051

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.46		PKPbc	18:48:34.005		16.4		2.83		TAS					m_e
BRG	146.00		PKPbc	18:48:25.482		16.4		2.83		TAS					m_e
BSEG	143.71		PKPbc	18:48:18.010	-0.3	16.4		2.83		TAS					m_e
CLL	145.79		PKPbc	18:48:24.804		16.4		2.83		TAS					m_e
FLT1	145.13		PKPbc	18:48:22.361		16.4		2.83		TAS					m_e
GTTG	146.09		PKPbc	18:48:25.585	-0.3	16.4		2.83		TAS					m_e
MANZ	147.22		PKPbc	18:48:28.718		16.4		2.83		TAS					m_e
NRDL	145.14		PKPbc	18:48:23.137	-0.3	16.4		2.83		TAS					m_e
PLN	146.74		PKPbc	18:48:27.226		16.4		2.83		TAS					m_e
RETH	145.01		PKPbc	18:48:22.373	-0.3	16.4		2.83		TAS					m_e
ROTZ	147.41		PKPbc	18:48:29.443		16.4		2.83		TAS					m_e
TNS	147.59		PKPbc	18:48:29.935		16.4		2.83		TAS					m_e
UBR	149.81		PKPbc	18:48:35.049		16.4		2.83		TAS					m_e

Event 81026015 Ionian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/26	20:21:15.98	1.03	1.59	37.9690	20.5790	55.6	20.0	56	10.0				8 341	9.63	15.62	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	81026021

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	9.99		P	20:23:38.722	-0.2					T__					m_e
CLZ	15.62		P	20:24:58.451						T__		32.5	1.24	m_e mb	4.3
DAVA	12.19		Sn	20:26:16.067	-1.4					T__					m_e
KBA	10.55		Sn	20:25:38.757	0.1					T__					m_e
KBA	10.55		P	20:23:47.186	0.8					T__					m_e
MOA	10.90		Sn	20:25:47.394	0.4					T__					m_e
MOA	10.90		P	20:23:48.568	-2.6					T__					m_e
OBKA	9.63		Sn	20:25:17.525	0.7					T__					m_e
OBKA	9.63		P	20:23:33.885	-0.1					T__					m_e
PLONS	12.26		Sn	20:26:18.327	-0.9					T__					m_e
PLONS	12.26		P	20:24:11.887	2.3					T__					m_e

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.57		P	00:20:39.266		36.1		5.24		TAS		10.2	0.86	m_e	mb 5.1
BRG	80.36		P	00:20:17.605	-0.1	36.1		5.24		TAS		5.7	0.95	m_e	mb 4.5
CLL	80.39		P	00:20:17.960	0.1	36.1		5.24		TAS		15.2	0.95	m_e	mb 4.9
FLT1	80.23		P	00:20:16.798	-0.3	36.1		5.24		TAS		9.1	0.93	m_e	mb 4.7
FUR	83.58		P	00:20:34.748		36.1		5.24		TAS		12.1	0.77	m_e	mb 5.2
GEC2	82.06		P	00:20:26.222		36.1		5.24		TAS		9.8	1.23	m_e	mb 4.8
GRA1	82.36		P	00:20:28.158		36.1		5.24		TAS		12.8	0.76	m_e	mb 5.1
GRA1	82.36		L	01:04:59.328						T__		64.3	22.00	a_e	Ms 4.0
MANZ	81.78		P	00:20:24.802		36.1		5.24		TAS		0.8	0.87	m_e	mb 3.9
MOX	81.44		L	01:01:36.965						T__		97.7	19.40	a_e	Ms 4.2
RJOB	83.31		P	00:20:33.148		36.1		5.24		TAS		9.0	1.03	m_e	mb 4.9
ROTZ	81.92		P	00:20:26.093		36.1		5.24		TAS		1.2	0.91	m_e	mb 4.0
STU	83.88		P	00:20:36.426		36.1		5.24		TAS		36.6	0.97	m_e	mb 5.6
WET	82.15		P	00:20:26.900		36.1		5.24		TAS		6.2	1.08	m_e	mb 4.7

Event 81027004 Gulf of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/27	01:00:09.77		57.0150	-150.1940					33.0			20		69.66	74.66	m i ke	BGR
81027010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	81027010
Ms	4.2		BGR	81027010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	73.51		L	01:46:11.056						T__		83.7	20.40	a_e	Ms 4.0
BRG	71.68		P	01:11:26.500	-0.0	349.5		5.98		TAS		10.7	0.93	m_e	mb 5.0
BUG	70.33		P	01:11:18.075	0.0	349.5		5.98		TAS		19.8	0.76	m_e	mb 5.3
CLL	71.16		P	01:11:23.030	-0.0	349.5		5.98		TAS		8.9	1.01	m_e	mb 4.8
CLL	71.16		L	01:46:23.257						T__		143.2	19.20	a_e	Ms 4.2
CLZ	70.34		P	01:11:18.822	-0.1	349.5		5.98		TAS		14.3	0.85	m_e	mb 5.1
FLT1	69.96		P	01:11:15.706	0.1	349.5		5.98		TAS		16.4	0.97	m_e	mb 5.1
FUR	74.06		P	01:11:40.759		349.5		5.98		TAS		20.3	0.85	m_e	mb 5.2
GEC2	73.66		P	01:11:38.437		349.5		5.98		TAS		4.8	0.70	m_e	mb 4.6
GRA1	72.55		P	01:11:31.804		349.5		5.98		TAS		10.2	0.69	m_e	mb 5.1
GRA1	72.55		L	01:46:01.901						T__		87.4	21.30	a_e	Ms 4.0
GTTG	70.58		P	01:11:20.326	0.2	349.5		5.98		TAS		19.6	0.90	m_e	mb 5.2
KAST	70.72		P	01:11:20.703	0.2	349.5		5.98		TAS		10.2	0.97	m_e	mb 4.9
MANZ	72.36		P	01:11:30.543		349.5		5.98		TAS		2.3	1.21	m_e	mb 4.2
MOX	71.66		P	01:11:26.437	0.0	349.5		5.98		TAS		13.3	0.92	m_e	mb 5.1
MOX	71.66		L	01:46:18.140						T__		125.8	18.30	a_e	Ms 4.2
NRDL	69.66		P	01:11:14.311	-0.3	349.5		5.98		TAS		12.7	1.01	m_e	mb 5.0
PLN	71.88		P	01:11:27.573	-0.3	349.5		5.98		TAS		7.8	0.79	m_e	mb 4.9
RJOB	74.66		P	01:11:44.044		349.5		5.98		TAS		7.9	0.75	m_e	mb 4.8

ROTZ	72.59	P	01:11:32.119		349.5		5.98	TAS		2.5	0.78	m_e	mb		4.4
TANN	71.98	P	01:11:28.446	-0.1	349.5		5.98	TAS		10.2	1.06	m_e	mb		4.9
TNS	71.68	P	01:11:26.474		349.5		5.98	TAS		5.2	0.75	m_e	mb		4.7
TNS	71.68	L	01:46:53.015					T__		173.1	21.10	a_e	Ms		4.3
UBR	74.39	P	01:11:42.609		349.5		5.98	TAS		14.0	1.15	m_e	mb		4.9
WET	73.28	P	01:11:36.014		349.5		5.98	TAS		7.5	1.06	m_e	mb		4.8

Event 81027002 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/27	05:28:54.00	0.84	2.54	38.2800	21.9410	67.8	25.6	62	10.0			12	341	9.87	16.05	m i ke	BGR
81027008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	81027008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	10.13		Sn	05:33:08.492	1.9					T__				m_e		
ARSA	10.13		P	05:31:17.705	-1.0	142.0		0.00		TAS				m_e		
BALST	13.81		P	05:32:10.555	2.1	142.0		0.00		TAS				m_e		
CLZ	15.80		P	05:32:38.154	-2.5	142.0		0.00		TAS		17.8	1.08	m_e	mb	4.1
DAVA	12.62		Sn	05:34:05.613	-0.1					T__				m_e		
DAVA	12.62		P	05:31:52.334	-0.0	142.0		0.00		TAS				m_e		
GEC2	12.12		Sn	05:33:54.763	0.7					T__				m_e		
GEC2	12.12		P	05:31:44.429	-1.3	142.0		0.00		TAS				m_e		
KBA	10.83		Sn	05:33:20.420	-2.8					T__				m_e		
OBKA	9.87		Sn	05:33:00.266	-0.3					T__				m_e		
OBKA	9.87		P	05:31:11.817	-3.4	142.0		0.00		TAS				m_e		
PLONS	12.72		P	05:31:53.912	0.1	142.0		0.00		TAS				m_e		
RJOB	11.57		Sn	05:33:40.682	-0.3					T__				m_e		
RJOB	11.57		P	05:31:34.886	-3.4	142.0		0.00		TAS				m_e		
SULZ	13.70		P	05:32:09.199	2.3	142.0		0.00		TAS				m_e		
WET	12.67		Sn	05:34:12.727	5.7					T__				m_e		
WET	12.67		P	05:31:53.483	0.3	142.0		0.00		TAS				m_e		
WILA	13.20		Sn	05:34:19.372	-0.3					T__				m_e		
WILA	13.20		P	05:32:05.770	5.5	142.0		0.00		TAS				m_e		
WLF	16.05		P	05:32:41.176	-2.5	142.0		0.00		TAS		61.6	1.18	m_e	mb	4.6
WTTA	11.73		Sn	05:33:40.682	-4.1					T__				m_e		
WTTA	11.73		P	05:31:38.970	-1.5	142.0		0.00		TAS				m_e		

Event 81027006 South of Fiji Islands

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

2018/10/27 07:16:21.00 -23.2900 179.1100 555.0 17 148.25 154.12 m i ke EMSC
81027038

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	150.15		PKPbc	07:35:09.693	-0.2	24.2		2.21		TAS				a_e	
BSEG	148.25		PKPbc	07:35:04.920	-0.1	24.2		2.21		TAS				m_e	
CLL	150.03		PKPbc	07:35:09.243	0.1	24.2		2.21		TAS				a_e	
CLZ	150.20		PKPbc	07:35:09.993	0.1	24.2		2.21		TAS				m_e	
FLT1	149.55		PKPbc	07:35:07.893	0.1	24.2		2.21		TAS				a_e	
GEC2	152.00		PKPbc	07:35:13.593		24.2		2.21		TAS				a_e	
GTTG	150.57		PKPbc	07:35:10.543	0.0	24.2		2.21		TAS				a_e	
KAST	151.22		PKPbc	07:35:11.943	0.1	24.2		2.21		TAS				a_e	
MANZ	151.47		PKPbc	07:35:12.593		24.2		2.21		TAS				a_e	
MOX	151.01		PKPbc	07:35:11.393		24.2		2.21		TAS				a_e	
NEUB	150.47		PKPbc	07:35:10.293	0.1	24.2		2.21		TAS				a_e	
NRDL	149.65		PKPbc	07:35:08.272	0.2	24.2		2.21		TAS				m_e	
PLN	151.01		PKPbc	07:35:11.543		24.2		2.21		TAS				a_e	
RETH	149.57		PKPbc	07:35:08.091	0.4	24.2		2.21		TAS				m_e	
TANN	150.99		PKPbc	07:35:11.493		24.2		2.21		TAS				a_e	
TNS	152.14		PKPbc	07:35:13.993		24.2		2.21		TAS				a_e	
UBR	154.12		PKPbc	07:35:17.893		24.2		2.21		TAS				a_e	

Event 81027007 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
2018/10/27	11:39:12.82		40.5310	142.9960					33.0			19		77.50	82.85	m i ke	BGR

81027013

Magnitude Err Nsta Author OrigID

mb	4.6		BGR	81027013
Ms	4.4		BGR	81027013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	82.85		P	11:51:32.112		35.1		5.37		TAS		5.6	0.82	m_e mb	4.8
BFO	82.85		L	12:29:05.875						T__		113.3	21.10	a_e Ms	4.2
BRG	78.67		P	11:51:10.048	-0.2	35.1		5.37		TAS		3.3	0.84	m_e mb	4.4
BSEG	77.50		P	11:51:04.021	0.3	35.1		5.37		TAS		6.3	0.83	m_e mb	4.8
BSEG	77.50		L	12:27:39.682						T__		209.6	20.20	a_e Ms	4.5
BUG	80.60		P	11:51:20.747	0.0	35.1		5.37		TAS		4.9	0.83	m_e mb	4.6
CLL	78.67		P	11:51:09.748	0.2	35.1		5.37		TAS		7.0	0.90	m_e mb	4.7
CLL	78.67		L	12:26:01.461						T__		117.5	21.50	a_e Ms	4.2
CLZ	79.20		P	11:51:13.211	-0.1	35.1		5.37		TAS		9.8	0.87	m_e mb	4.8
FLT1	78.49		P	11:51:08.797	-0.1	35.1		5.37		TAS		7.0	0.82	m_e mb	4.8
FUR	81.88		P	11:51:27.468		35.1		5.37		TAS		17.6	0.79	m_e mb	5.2

FUR	81.88	L	12:31:10.458							T__	191.5	18.70	a_e	Ms	4.5
GEC2	80.38	P	11:51:19.371	35.1	5.37					TAS	3.8	0.78	m_e	mb	4.4
GRA1	80.65	L	12:29:12.562							T__	143.2	20.80	a_e	Ms	4.3
GTTG	79.58	P	11:51:14.975	0.1	35.1	5.37				TAS	10.6	0.93	m_e	mb	4.8
KAST	80.41	P	11:51:19.640	0.5	35.1	5.37				TAS	8.4	1.06	m_e	mb	4.6
MANZ	80.08	P	11:51:17.717		35.1	5.37				TAS	1.3	1.02	m_e	mb	3.8
MOX	79.73	P	11:51:15.755	0.1	35.1	5.37				TAS	3.4	0.93	m_e	mb	4.3
MOX	79.73	L	12:27:10.095							T__	145.2	20.20	a_e	Ms	4.3
NEUB	79.22	P	11:51:12.730	0.0	35.1	5.37				TAS	9.5	0.79	m_e	mb	4.9
RJOB	81.63	P	11:51:26.381		35.1	5.37				TAS	8.4	0.86	m_e	mb	4.9
ROTZ	80.22	P	11:51:18.643		35.1	5.37				TAS	1.2	0.91	m_e	mb	3.8
STU	82.16	P	11:51:28.675		35.1	5.37				TAS	28.9	0.86	m_e	mb	5.4
TNS	81.22	P	11:51:23.938		35.1	5.37				TAS	6.4	0.96	m_e	mb	4.6
TNS	81.22	L	12:30:41.422							T__	170.4	18.10	a_e	Ms	4.4
WET	80.46	P	11:51:20.262	35.1	5.37					TAS	7.0	0.94	m_e	mb	4.6
WET	80.46	L	12:29:57.907							T__	230.1	20.50	a_e	Ms	4.5

Event 81027008 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/27	16:57:40.42			65.1670	-151.9410				33.0					63.83	64.74	m i ke	BGR
OrigID 81027014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	81027014
Ms	4.2		BGR	81027014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	64.74		P	17:08:13.659		350.3		6.02		TAS		16.1	1.30	m_e	mb 5.1
GRA1	64.74		L	17:32:39.767						T__		140.1	20.20	a_e	Ms 4.2
MOX	63.83		L	17:32:12.389						T__		143.1	19.70	a_e	Ms 4.2

Event 81028003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/28	00:06:37.90			-20.4000	-177.7500				523.0				20	145.96	150.63	m i ke	EMSC
OrigID 81028035																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	148.22		PKPbc	00:25:25.065	-0.0	17.0		2.54		TAS				m_e	
BSEG	145.96		PKPbc	00:25:19.065	0.0	17.0		2.54		TAS				m_e	

CLL	148.02	PKPbc	00:25:24.395	0.1	17.0	2.54	TAS											m_e
CLL	148.02	L	01:49:27.571				T__			406.3	21.70							a_e
CLZ	147.98	PKPbc	00:25:24.613	-0.0	17.0	2.54	TAS											m_e
FLT1	147.37	PKPbc	00:25:22.659	0.3	17.0	2.54	TAS											m_e
GEC2	150.17	PKPbc	00:25:29.750		17.0	2.54	TAS											m_e
GRA1	149.91	L	01:50:45.180				T__			403.5	21.10							a_e
GTTG	148.33	PKPbc	00:25:25.415	0.0	17.0	2.54	TAS											m_e
IBBN	147.87	PKPbc	00:25:23.393	0.2	17.0	2.54	TAS											m_e
KAST	148.88	PKPbc	00:25:26.613	0.1	17.0	2.54	TAS											m_e
MANZ	149.46	PKPbc	00:25:28.223		17.0	2.54	TAS											m_e
MOX	148.92	PKPbc	00:25:26.682	-0.0	17.0	2.54	TAS											m_e
MOX	148.92	L	01:50:30.911				T__			476.3	21.90							a_e
NEUB	148.37	PKPbc	00:25:25.373	0.1	17.0	2.54	TAS											m_e
NRDL	147.39	PKPbc	00:25:22.685	-0.1	17.0	2.54	TAS											m_e
PLN	148.97	PKPbc	00:25:26.887	0.1	17.0	2.54	TAS											m_e
RETH	147.25	PKPbc	00:25:22.708	-0.7	17.0	2.54	TAS											m_e
ROTZ	149.64	PKPbc	00:25:28.551		17.0	2.54	TAS											m_e
RUE	146.75	PKPbc	00:25:21.283	-0.1	17.0	2.54	TAS											m_e
TANN	148.98	PKPbc	00:25:26.941	-0.4	17.0	2.54	TAS											m_e
TNS	149.84	PKPbc	00:25:29.111		17.0	2.54	TAS											m_e
TNS	149.84	L	01:53:41.961				T__			324.0	20.10							a_e
WLF	150.63	PKPbc	00:25:31.276		17.0	2.54	TAS											m_e

Event 81028004 Black Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2018/10/28	00:37:05.48	3.50	0.60	43.7980	32.4210	48.9	18.9	129	10.0					33	336	12.34	18.53	m i ke BGR
81028010																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	81028010
Ms	4.4		BGR	81028010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	12.34		P	00:40:01.144	1.0					T__					m_e
BFO	17.30		P	00:41:04.079	-1.1					T__		271.5	1.08	m_e	mb 5.3
BRG	14.37		P	00:40:27.099	-0.2					T__					m_e
BUG	18.53		P	00:41:20.761	0.5					T__					m_e
CLL	15.08		P	00:40:36.275	-0.4					T__					m_e
CLZ	16.81		P	00:40:58.240	-0.7					T__		67.9	0.90	m_e	mb 4.8
FLT1	16.49		P	00:40:54.625	-0.3					T__					m_e
FUR	15.32		P	00:40:39.889	0.0					T__					m_e
GEC2	13.88		P	00:40:21.120	0.4					T__					m_e
GOR1	16.71		P	00:40:58.185	0.4					T__					m_e
GRA1	15.66		P	00:40:43.782	-0.5					T__		674.2	1.15	m_e	mb 5.7
GRA1	15.66		L	00:44:52.042						T__		2974.6	20.30	a_e	Ms 4.5

GTTG	16.95	P	00:41:00.464	-0.3	T__	m_e
IBBN	18.48	P	00:41:20.205	0.5	T__	m_e
KAST	17.78	P	00:41:11.308	0.2	T__	m_e
KBA	13.79	P	00:40:20.713	1.0	T__	m_e
MANZ	15.18	P	00:40:37.665	-0.4	T__	m_e
MOA	13.29	P	00:40:13.464	0.6	T__	m_e
MOX	15.68	P	00:40:43.782	-0.7	T__	m_e
MOX	15.68	L	00:44:54.122		T__	2699.7 22.00 a_e Ms 4.4
NEUB	15.76	P	00:40:44.894	-0.7	T__	m_e
NRDL	17.19	P	00:41:04.357	0.6	T__	m_e
OBKA	12.90	P	00:40:08.673	1.0	T__	m_e
PLN	15.30	P	00:40:39.611	0.1	T__	m_e
RETH	17.70	P	00:41:10.875	0.7	T__	a_e
RJOB	14.25	P	00:40:25.672	0.2	T__	m_e
ROTZ	15.06	P	00:40:35.719	-0.7	T__	m_e
RUE	15.14	P	00:40:38.499	1.1	T__	m_e
STU	16.78	P	00:40:57.962	-0.8	T__	m_e
TANN	15.09	P	00:40:36.831	-0.0	T__	m_e
TNS	17.52	P	00:41:07.971	-0.0	T__	m_e
UBBA	16.71	P	00:40:57.962	0.2	T__	m_e
UBR	16.04	P	00:40:48.230	-1.0	T__	m_e
WET	14.48	P	00:40:28.555	-0.2	T__	m_e
WTTA	14.97	P	00:40:34.910	-0.3	T__	m_e

Event 81028005 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/28	01:29:37.50			-24.5900	179.9700				525.0			6		149.68	152.01	m i ke	EMSC
81028037																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	151.63		PKPbc	01:48:32.411		23.4		2.44		TAS					m_e
BSEG	149.68		PKPbc	01:48:27.699	0.2	23.4		2.44		TAS					m_e
CLL	151.50		PKPbc	01:48:32.052		23.4		2.44		TAS					m_e
CLZ	151.65		PKPbc	01:48:32.640		23.4		2.44		TAS					m_e
FLT1	151.00		PKPbc	01:48:30.688		23.4		2.44		TAS					m_e
GTTG	152.01		PKPbc	01:48:33.148		23.4		2.44		TAS					m_e

Event 81028006 Fiji Islands region

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

2018/10/28 09:42:49.90
81028038

-17.8800 -178.5600

597.0

15

143.36 149.44 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	149.11		PKPbc	10:01:31.361		17.4		2.77		TAS				m_e	
BRG	145.60		PKPbc	10:01:22.433		17.4		2.77		TAS				m_e	
BSEG	143.36		PKPbc	10:01:15.018	0.1	17.4		2.77		TAS				m_e	
CLL	145.41		PKPbc	10:01:21.722	-0.4	17.4		2.77		TAS				m_e	
FLT1	144.77		PKPbc	10:01:19.536	0.4	17.4		2.77		TAS				m_e	
GEC2	147.55		PKPbc	10:01:27.736		17.4		2.77		TAS				m_e	
GRA1	147.30		PKPbc	10:01:27.051		17.4		2.77		TAS				m_e	
MANZ	146.84		PKPbc	10:01:26.040		17.4		2.77		TAS				m_e	
PLN	146.36		PKPbc	10:01:24.513		17.4		2.77		TAS				m_e	
RJOB	148.80		PKPbc	10:01:30.737		17.4		2.77		TAS				m_e	
ROTZ	147.03		PKPbc	10:01:26.485		17.4		2.77		TAS				m_e	
TANN	146.36		PKPbc	10:01:24.534		17.4		2.77		TAS				m_e	
TNS	147.25		PKPbc	10:01:26.848		17.4		2.77		TAS				m_e	
UBR	149.44		PKPbc	10:01:32.079		17.4		2.77		TAS				m_e	
WLF	148.07		PKPbc	10:01:29.481		17.4		2.77		TAS				m_e	

Event 81028007 El Salvador

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/28	22:24:04.45			13.1230	-88.1850				56.0			11		84.23	87.89	m i ke	BGR
OrigID																	
81028013																	

Magnitude Err Nsta Author OrigID

mb	4.8		BGR	81028013
Ms	6.0		BGR	81028013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.59		L	23:16:58.550						T__		6096.4	18.80	a_e	Ms 6.0
BSEG	84.45		L	23:20:48.838						T__		5126.4	19.60	a_e	Ms 5.9
CLL	86.73		P	22:36:41.483		285.6		4.93		TAS		14.8	0.85	m_e	mb 5.1
CLL	86.73		L	23:16:19.374						T__		7455.7	19.40	a_e	Ms 6.1
FUR	86.54		L	23:17:45.504						T__		5230.3	19.50	a_e	Ms 5.9
GEC2	87.89		P	22:36:46.312		285.6		4.93		TAS		4.0	0.84	m_e	mb 4.8
GEC2	87.89		L	23:12:03.230						T__		6233.7	21.50	a_e	Ms 6.0
GRA1	86.09		P	22:36:38.614		285.6		4.93		TAS		9.6	0.79	m_e	mb 5.0
GRA1	86.09		L	23:17:55.057						T__		8083.5	18.90	a_e	Ms 6.1
MANZ	86.56		P	22:36:40.692		285.6		4.93		TAS		1.5	0.81	m_e	mb 4.2
MOX	86.08		P	22:36:38.019		285.6		4.93		TAS		4.1	0.83	m_e	mb 4.6
MOX	86.08		L	23:19:31.927						T__		5477.7	19.10	a_e	Ms 6.0
RJOB	87.64		P	22:36:46.153		285.6		4.93		TAS		5.3	0.82	m_e	mb 4.9

ROTZ	86.69	P	22:36:41.246	285.6	4.93	TAS	1.4	0.91	m_e	mb	4.1
STU	85.04	P	22:36:32.604	285.6	4.93	TAS	22.8	0.72	m_e	mb	5.5
TANN	86.66	P	22:36:40.929	285.6	4.93	TAS	7.1	0.86	m_e	mb	4.8
TNS	84.23	L	23:16:58.387			T__	7472.3	18.30	a_e	Ms	6.1
UBR	85.91	P	22:36:37.495	285.6	4.93	TAS	9.2	0.85	m_e	mb	4.9
WET	87.28	P	22:36:44.491	285.6	4.93	TAS	8.4	0.83	m_e	mb	4.9
WET	87.28	L	23:12:06.553			T__	5431.9	21.00	a_e	Ms	5.9

Event 81029001 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/29	01:27:33.98			30.9720	140.8050				33.0			30		84.91	90.33	m i ke	BGR
81029007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	81029007
MBB	6.4		BGR	81029007
Ms	4.6		BGR	81029007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	90.33		P	01:40:30.276	0.2	41.4		4.77		TAS		45.5	0.83	m_e	mb	5.7
BFO	90.33		L	02:28:04.361						T__		151.7	19.60	a_e	Ms	4.4
BRG	86.00		P	01:40:09.877	-0.1	41.4		4.77		TAS		72.1	0.87	m_e	mb	5.8
BSEG	85.23		P	01:40:06.189	0.1	41.4		4.77		TAS		114.5	0.73	m_e	mb	6.2
BSEG	85.23		L	02:19:45.446						T__		252.2	20.60	a_e	Ms	4.6
BUG	88.33		P	01:40:20.912	0.1	41.4		4.77		TAS		38.8	0.78	m_e	mb	5.8
CLL	86.09		P	01:40:10.132	-0.1	41.4		4.77		TAS		115.9	0.93	m_e	mb	6.0
CLL	86.09		L	02:18:52.705						T__		308.3	19.60	a_e	Ms	4.7
CLZ	86.79		P	01:40:13.957	-0.1	41.4		4.77		TAS		384.5	1.77	m_e	mb	6.2
FLT1	86.07		P	01:40:09.812	0.2	41.4		4.77		TAS		119.0	0.74	a_e	mb	6.1
FUR	89.18		P	01:40:25.402	-0.3	41.4		4.77		TAS		82.9	0.71	m_e	mb	6.1
FUR	89.18		L	02:24:57.474						T__		259.0	18.20	a_e	Ms	4.7
GEC2	87.59		P	01:40:17.248	-0.2	41.4		4.77		TAS		31.5	0.82	m_e	mb	5.7
GEC2	87.59		L	02:21:49.648						T__		307.6	18.40	a_e	Ms	4.8
GOR1	85.55		P	01:40:07.670	-0.0	41.4		4.77		TAS		315.6	1.51	m_e	mb	6.2
GRA1	88.06		P	01:40:20.001	-0.2	41.4		4.77		TAS		210.7	1.72	m_e	mb	6.2
GRA1	88.06		L	02:21:07.348						T__		241.5	20.80	a_e	Ms	4.6
GTTG	87.18		P	01:40:15.700	-0.2	41.4		4.77		TAS		59.1	0.77	m_e	mb	5.8
IBBN	87.47		P	01:40:17.012	0.3	41.4		4.77		TAS		122.2	1.13	a_e	mb	5.9
KAST	88.07		P	01:40:19.788	-0.0	41.4		4.77		TAS		41.4	1.13	m_e	mb	5.7
MANZ	87.45		P	01:40:16.952	0.0	41.4		4.77		TAS		13.7	1.17	m_e	mb	5.0
MOX	87.17		P	01:40:15.350	-0.1	41.4		4.77		TAS		46.0	1.14	m_e	mb	5.5
MOX	87.17		L	02:18:55.438						T__		220.8	20.80	a_e	Ms	4.5
NEUB	86.70		P	01:40:13.128	-0.2	41.4		4.77		TAS		131.1	1.17	m_e	mb	6.0
NRDL	86.40		P	01:40:11.772	0.1	41.4		4.77		TAS		70.2	1.09	m_e	mb	5.7
PLN	87.06		P	01:40:14.761	0.0	41.4		4.77		TAS		53.1	1.22	m_e	mb	5.5

RETH	86.51	P	01:40:12.344	0.0	41.4	4.77	TAS	157.4	1.42	m_e	mb	5.9
RJOB	88.81	P	01:40:23.484		41.4	4.77	TAS	64.2	0.93	m_e	mb	5.8
ROTZ	87.57	P	01:40:17.654	0.3	41.4	4.77	TAS	41.6	1.72	m_e	mb	5.5
RUE	84.91	P	01:40:04.692	-0.4	41.4	4.77	TAS	168.5	0.84	m_e	mb	6.3
STU	89.62	P	01:40:27.103	0.4	41.4	4.77	TAS	92.3	0.91	m_e	mb	6.0
TANN	86.98	P	01:40:14.498	0.1	41.4	4.77	TAS	40.1	1.07	m_e	mb	5.5
TNS	88.81	P	01:40:23.317	0.3	41.4	4.77	TAS	86.3	1.61	m_e	mb	5.7
TNS	88.81	L	02:20:24.576				T__	283.2	22.00	a_e	Ms	4.6
UBBA	87.72	P	01:40:17.866	-0.2	41.4	4.77	TAS	54.1	1.32	m_e	mb	5.7
UBR	90.06	P	01:40:28.906		41.4	4.77	TAS	36.4	0.76	m_e	mb	5.7
WET	87.74	P	01:40:18.180	-0.1	41.4	4.77	TAS	81.0	1.73	m_e	mb	5.8
WET	87.74	L	02:22:06.114				T__	268.2	20.40	a_e	Ms	4.6
WLF	90.17	P	01:40:29.797	0.0	41.4	4.77	TAS	39.0	0.95	m_e	mb	5.6

Event 81029002 Drake Passage

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/29	06:54:21.40			-57.4000	-66.4100				10.0			30		122.08	127.50	m i ke	NEIC
81029041																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.1		BGR	81029008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	122.08		PKPdf	07:13:14.427	-0.1	219.8		1.87		TAS				m_e	
BFO	122.08		L	08:10:05.800						T__		4469.7	19.90	a_e	Ms 6.1
BRG	126.37		PKPdf	07:13:22.862	0.1	219.8		1.87		TAS				a_e	
BSEG	127.20		PKPdf	07:13:24.712	0.2	219.8		1.87		TAS				a_e	
BSEG	127.20		L	08:08:07.921						T__		4092.2	19.00	a_e	Ms 6.1
BUG	124.09		PKPdf	07:13:18.969	0.2	219.8		1.87		TAS				m_e	
CLL	126.31		PKPdf	07:13:22.712	0.2	219.8		1.87		TAS				m_e	
CLL	126.31		L	08:12:26.552						T__		3954.5	20.20	a_e	Ms 6.1
CLZ	125.64		PKPdf	07:13:21.807	-0.2	219.8		1.87		TAS				m_e	
FLT1	126.35		PKPdf	07:13:22.740	0.1	219.8		1.87		TAS				m_e	
FUR	123.18		PKPdf	07:13:16.984	-0.2	219.8		1.87		TAS				m_e	
FUR	123.18		L	08:05:58.236						T__		3580.2	19.60	a_e	Ms 6.0
GEC2	124.74		PKPdf	07:13:19.398	-0.5	219.8		1.87		TAS				m_e	
GEC2	124.74		L	08:18:03.440						T__		3795.1	18.30	a_e	Ms 6.1
GOR1	126.88		PKPdf	07:13:23.962	-0.1	219.8		1.87		TAS				m_e	
GRA1	124.34		PKPdf	07:13:18.976	-0.1	219.8		1.87		TAS				m_e	
GRA1	124.34		L	08:10:25.709						T__		3528.2	19.90	a_e	Ms 6.0
GTTG	125.25		PKPdf	07:13:21.112	0.0	219.8		1.87		TAS				a_e	
IBBN	124.96		PKPdf	07:13:20.924	0.1	219.8		1.87		TAS				m_e	
KAST	124.36		PKPdf	07:13:19.639	0.2	219.8		1.87		TAS				m_e	
MANZ	124.93		PKPdf	07:13:20.112	0.0	219.8		1.87		TAS				m_e	
MOX	125.23		PKPdf	07:13:20.812	0.1	219.8		1.87		TAS				a_e	

MOX	125.23	L	08:11:54.142							T__	4701.9	19.70	a_e	Ms	6.2	
NEUB	125.71	PKPdf	07:13:21.856	0.0	219.8	1.87				TAS			m_e			
NRDL	126.03	PKPdf	07:13:22.488	0.1	219.8	1.87				TAS			m_e			
PLN	125.33	PKPdf	07:13:20.862	0.4	219.8	1.87				TAS			a_e			
RETH	125.92	PKPdf	07:13:22.650	-0.0	219.8	1.87				TAS			m_e			
RJOB	123.50	PKPdf	07:13:17.014		219.8	1.87				TAS			m_e			
ROTZ	124.81	PKPdf	07:13:19.480	0.0	219.8	1.87				TAS			m_e			
RUE	127.50	PKPdf	07:13:24.954	-0.3	219.8	1.87				TAS			m_e			
STU	122.78	PKPdf	07:13:16.352	0.3	219.8	1.87				TAS			m_e			
TANN	125.41	PKPdf	07:13:21.074	0.1	219.8	1.87				TAS			m_e			
TNS	123.61	PKPdf	07:13:18.307	-0.3	219.8	1.87				TAS			m_e			
TNS	123.61	L	08:09:20.185							T__	4494.9	20.30	a_e	Ms	6.1	
UBBA	124.70	PKPdf	07:13:19.931	0.0	219.8	1.87				TAS			m_e			
UBR	122.31	PKPdf	07:13:14.878		219.8	1.87				TAS			m_e			
WET	124.61	PKPdf	07:13:19.089	0.2	219.8	1.87				TAS			m_e			
WET	124.61	L	08:12:41.129							T__	2773.3	19.70	a_e	Ms	5.9	
WLF	122.25	PKPdf	07:13:15.604	-0.2	219.8	1.87				TAS			m_e			

Event 81029003 Cyprus region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/29	12:09:18.04			34.2190	33.3770				10.0					20.66	25.54	m i ke	BGR
81029009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	81029009
Ms	3.1		BGR	81029009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	23.38		P	12:14:20.621		118.4		10.78		TAS		13.2	0.75	m_e	mb	4.5
BFO	23.38		L	12:25:34.455						T__		63.2	18.60	a_e	Ms	3.1
BRG	21.85		P	12:14:05.393		118.4		10.78		TAS		11.4	0.74	m_e	mb	4.4
BSEG	25.54		L	12:26:17.921						T__		67.9	20.30	a_e	Ms	3.2
CLL	22.58		L	12:26:11.682						T__		52.8	19.20	a_e	Ms	3.0
CLZ	24.18		P	12:14:28.417		118.4		10.78		TAS		14.8	0.88	m_e	mb	4.5
FUR	21.59		L	12:24:20.806						T__		70.5	20.90	a_e	Ms	3.0
GEC2	20.66		P	12:13:51.777		118.4		10.78		TAS		13.9	0.70	m_e	mb	4.4
GEC2	20.66		L	12:22:45.100						T__		90.9	19.80	a_e	Ms	3.1
GRA1	22.47		P	12:14:17.285		118.4		10.78		TAS		9.2	0.93	m_e	mb	4.2
GRA1	22.47		L	12:24:31.060						T__		95.2	19.30	a_e	Ms	3.2
KAST	24.80		P	12:14:34.853		118.4		10.78		TAS		17.6	1.21	m_e	mb	4.7
MANZ	22.18		P	12:14:07.901		118.4		10.78		TAS		5.7	0.80	m_e	mb	4.0
MOX	22.83		P	12:14:14.556		118.4		10.78		TAS		26.8	1.17	m_e	mb	4.7
MOX	22.83		L	12:26:45.345						T__		72.7	18.70	a_e	Ms	3.1
PLN	22.46		P	12:14:12.033		118.4		10.78		TAS		9.8	0.97	m_e	mb	4.2
ROTZ	22.00		P	12:14:05.656		118.4		10.78		TAS		5.0	0.91	m_e	mb	4.0

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	81029011
Ms	4.8		BGR	81029011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	78.99		P	21:43:35.583	-0.3	273.2		5.34		TAS		18.4	1.15	m_e	mb	5.0
BRG	82.50		P	21:43:54.377		273.2		5.34		TAS		23.8	1.28	m_e	mb	5.2
BSEG	80.10		P	21:43:42.292	0.0	273.2		5.34		TAS		367.4	2.83	m_e	mb	5.8
CLL	81.87		P	21:43:51.074		273.2		5.34		TAS		33.5	1.51	m_e	mb	5.2
CLZ	80.20		P	21:43:41.937	-0.3	273.2		5.34		TAS		29.0	1.17	m_e	mb	5.1
FLT1	80.71		P	21:43:44.380	0.1	273.2		5.34		TAS		16.2	1.00	m_e	mb	5.0
GEC2	82.52		P	21:43:54.466		273.2		5.34		TAS		19.5	1.09	m_e	mb	5.2
GRA1	80.84		P	21:43:46.420	0.3	273.2		5.34		TAS		17.6	0.84	m_e	mb	5.1
GRA1	80.84		L	22:24:33.142						T__		498.7	19.60	a_e	Ms	4.9
GTTG	79.96		P	21:43:40.915	-0.6	273.2		5.34		TAS		21.5	1.14	m_e	mb	5.0
KAST	79.00		P	21:43:35.494	0.1	273.2		5.34		TAS		9.3	1.04	m_e	mb	4.8
MANZ	81.40		P	21:43:48.868		273.2		5.34		TAS		6.7	1.43	m_e	mb	4.5
MOX	81.04		P	21:43:46.113	-0.1	273.2		5.34		TAS		17.7	1.30	m_e	mb	4.9
MOX	81.04		L	22:18:46.345						T__		370.7	21.70	a_e	Ms	4.7
NEUB	81.11		P	21:43:47.135		273.2		5.34		TAS		12.9	0.77	m_e	mb	5.0
NRDL	80.02		P	21:43:41.315	0.1	273.2		5.34		TAS		43.5	1.37	m_e	mb	5.2
PLN	81.40		P	21:43:48.646		273.2		5.34		TAS		12.4	0.98	m_e	mb	4.9
RJOB	82.01		P	21:43:52.272		273.2		5.34		TAS		19.0	1.40	m_e	mb	5.0
ROTZ	81.47		P	21:43:48.779		273.2		5.34		TAS		1.5	0.96	m_e	mb	4.0
TANN	81.59		P	21:43:49.801		273.2		5.34		TAS		16.8	1.05	m_e	mb	5.1
TNS	79.03		P	21:43:36.250	0.7	273.2		5.34		TAS		23.9	1.11	m_e	mb	5.1
WET	81.96		P	21:43:51.756		273.2		5.34		TAS		17.4	1.13	m_e	mb	5.1

Event 81030007 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/30	00:25:48.81			36.7370	29.0740				10.0					16.51	21.56	m i ke	BGR
OrigID 81030013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	81030013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	17.81		P	00:29:58.031		120.0		10.76		TAS		21.9	1.59	m_e	mb	4.0
BSEG	21.56		P	00:30:37.552		120.0		10.76		TAS		26.6	1.07	m_e	mb	4.6
GEC2	16.51		P	00:29:42.064		120.0		10.76		TAS		69.6	1.43	m_e	mb	4.6
GRA2	18.20		P	00:30:01.783		120.0		10.76		TAS		3.4	0.42	m_e	mb	3.8
GTTG	20.09		P	00:30:22.746		120.0		10.76		TAS		86.5	1.39	m_e	mb	4.8
MANZ	18.04		P	00:29:57.084		120.0		10.76		TAS		16.5	1.17	m_e	mb	4.0
MOX	18.71		P	00:30:05.443		120.0		10.76		TAS		56.2	1.49	m_e	mb	4.6
ROTZ	17.85		P	00:29:57.223		120.0		10.76		TAS		26.1	1.18	m_e	mb	4.2

WET 17.11 P 00:29:48.381 120.0 10.76 TAS 43.4 1.37 m_e mb 4.4

Event 81030008 North Island, New Zealand

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2018/10/30 02:13:39.60 -39.0600 175.0000 225.0 29 161.32 166.75 m i ke EMSC
81030040

Magnitude Err Nsta Author OrigID

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Rows include station data for BFO, BRG, BSEG, BUG, CLL, CLZ, FLT1, FUR, GEC2, GOR1, GRA1, GTTG, IBBN, KAST, MANZ, MOX, NEUB, NRDL, PLN, RJOB, ROTZ, RUE, STU, TANN, TNS, UBBA, UBR, WET, WLF.

Event 81030002 Ionian Sea

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

OrigID
 2018/10/30 03:00:04.61 0.73 3.08 37.6980 20.1310 84.5 31.1 58 10.0 22 339 9.73 15.91 m i ke BGR
 81030008

Magnitude Err Nsta Author OrigID
 mb 5.3 BGR 81030008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.13		Sn	03:04:15.426	-1.9					T__				m_e	
ARSA	10.13		P	03:02:25.916	-3.5					T__				m_e	
BFO	13.67		P	03:03:16.275	-0.9					T__				m_e	
CLZ	15.73		P	03:03:43.499	-0.8					T__		305.3	1.16	m_e mb	5.3
DAVA	12.20		Sn	03:05:06.661	0.2					T__				m_e	
DAVA	12.20		P	03:02:57.826	0.5					T__				m_e	
FLT1	15.91		P	03:03:45.467	-1.1					T__		510.4	1.91	m_e mb	5.3
FUR	12.30		P	03:02:57.905	-0.8					T__				m_e	
GEC2	12.08		P	03:02:51.567	-4.2					T__				m_e	
GTTG	15.60		P	03:03:42.214	-0.4					T__		234.7	1.04	m_e mb	5.2
KBA	10.63		Sn	03:04:30.916	1.8					T__				m_e	
KBA	10.63		P	03:02:34.230	-1.9					T__				m_e	
MOA	11.02		P	03:02:37.952	-3.5					T__				m_e	
NEUB	14.74		P	03:03:37.877	6.5					T__				m_e	
OBKA	9.73		P	03:02:21.086	-2.9					T__				m_e	
PLN	14.00		P	03:03:29.298	7.8					T__				m_e	
RJOB	11.38		Sn	03:04:49.261	2.1					T__				m_e	
RJOB	11.38		P	03:02:43.491	-2.9					T__				m_e	
RUE	15.43		P	03:03:44.073	3.6					T__		511.8	1.09	m_e	
STU	13.62		P	03:03:15.087	-1.4					T__				m_e	
TNS	15.06		P	03:03:40.980	5.4					T__		298.9	1.01	m_e	
UBBA	14.97		P	03:03:39.312	4.9					T__				m_e	
UBR	12.39		Sn	03:05:09.521	-1.5					T__				m_e	
UBR	12.39		P	03:02:59.647	-0.3					T__				m_e	
WET	12.59		P	03:02:59.172	-3.4					T__				m_e	
WLF	15.63		P	03:03:43.548	0.5					T__		870.8	1.06	m_e	
WTTA	11.42		Sn	03:04:48.074	0.0					T__				m_e	
WTTA	11.42		P	03:02:45.157	-1.8					T__				m_e	

Event 81030003 Ionian Sea
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2018/10/30 08:32:26.76 1.01 2.21 37.6650 20.9310 80.1 26.7 62 10.0 8 344 10.03 16.03 m i ke BGR
 81030009

Magnitude Err Nsta Author OrigID
 mb 4.8 BGR 81030009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.38		Sn	08:36:45.927	0.6					T__				m_e	
ARSA	10.38		P	08:34:54.263	-0.6					T__				m_e	
CLZ	16.01		P	08:36:15.820	10.8					T__		96.4	1.68	m_e mb	4.7
DAVA	12.60		Sn	08:37:35.416	-2.6					T__				m_e	
DAVA	12.60		P	08:35:26.098	1.2					T__				m_e	
GEC2	12.35		Sn	08:37:34.390	2.3					T__				m_e	
KBA	10.95		Sn	08:36:56.623	-2.2					T__				m_e	
KBA	10.95		P	08:35:03.627	1.0					T__				m_e	
MOA	11.29		P	08:35:02.200	-5.0					T__				m_e	
OBKA	10.03		Sn	08:36:36.827	-0.2					T__				m_e	
OBKA	10.03		P	08:34:49.448	-0.7					T__				m_e	
RJOB	11.70		Sn	08:37:17.666	0.9					T__				m_e	
RJOB	11.70		P	08:35:12.453	-0.4					T__				m_e	
WLF	16.03		P	08:36:15.670	10.8					T__		175.8	1.69	m_e mb	4.9
WTTA	11.79		Sn	08:37:20.057	1.3					T__				m_e	
WTTA	11.79		P	08:35:18.340	4.4					T__				m_e	

Event 81030004 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/30	12:49:14.23	1.01	2.34	38.1810	21.0250	78.9	26.7	65	10.0			9	344	9.60	15.67	m i ke	BGR
81030010																	

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 81030010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	9.92		Sn	12:53:23.591	1.6					T__				m_e	
ARSA	9.92		P	12:51:33.381	-2.8					T__				m_e	
DAVA	12.23		Sn	12:54:14.096	-2.8					T__				m_e	
DAVA	12.23		P	12:52:06.604	-0.8					T__				m_e	
GEC2	11.90		Sn	12:54:09.480	0.5					T__				m_e	
KBA	10.53		Sn	12:53:36.506	0.0					T__				m_e	
KBA	10.53		P	12:51:43.357	-1.1					T__				m_e	
MOA	10.85		Sn	12:53:46.192	2.2					T__				m_e	
OBKA	9.60		Sn	12:53:12.481	-1.9					T__				m_e	
OBKA	9.60		P	12:51:29.603	-2.2					T__				m_e	
RJOB	11.29		Sn	12:53:54.951	0.6					T__				m_e	
RJOB	11.29		P	12:51:53.332	-1.3					T__				m_e	
WLF	15.67		P	12:52:59.930	6.8					T__		216.4	1.81	m_e mb	5.0
WTTA	11.40		Sn	12:53:57.261	0.3					T__				m_e	
WTTA	11.40		P	12:51:57.208	1.1					T__				m_e	

Event 81030005 Ionian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/30	15:12:07.52	0.62	1.65	37.9000	20.7490	43.4	14.5	55	10.0				32 339	9.75	17.57	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	81030011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	10.10		P	15:14:29.169	-2.8					T__					m_e
BFO	13.80		P	15:15:19.745	-2.0					T__					m_e
BRG	13.84		P	15:15:21.411	-1.0					T__					m_e
BSEG	17.57		P	15:16:10.367	-0.2					T__		169.1	0.97	m_e mb	5.1
CLL	14.48		P	15:15:30.578	-0.3					T__					m_e
CLZ	15.74		P	15:15:48.488	1.1					T__		294.0	1.14	m_e mb	5.3
DAVA	12.32	Sn		15:17:10.603	-1.7					T__					m_e
DAVA	12.32	P		15:15:02.318	0.4					T__					m_e
FLT1	15.89	P		15:15:49.113	-0.2					T__					m_e
FUR	12.37	Sn		15:17:12.274	-1.1					T__					m_e
GEC2	12.07	Sn		15:17:05.816	-0.6					T__					m_e
GEC2	12.07	P		15:14:57.038	-1.6					T__					m_e
GOR1	16.46	P		15:15:58.909	2.3					T__					m_e
GRA1	13.63	P		15:15:19.328	-0.2					T__					m_e
GTTG	15.62	P		15:15:45.980	0.1					T__		219.3	0.91	m_e mb	5.3
KAST	15.91	P		15:15:50.368	0.8					T__					m_e
KBA	10.67	Sn		15:16:33.314	0.2					T__					m_e
KBA	10.67	P		15:14:37.964	-1.7					T__					m_e
MANZ	13.58	P		15:15:17.451	-1.4					T__					m_e
MOA	11.02	Sn		15:16:43.105	1.8					T__					m_e
MOA	11.02	P		15:14:42.085	-2.2					T__					m_e
MOX	14.31	P		15:15:26.619	-1.9					T__					m_e
NEUB	14.74	P		15:15:36.822	2.6					T__					m_e
NRDL	16.38	P		15:15:55.993	0.4					T__					m_e
OBKA	9.75	Sn		15:16:09.816	-1.4					T__					m_e
OBKA	9.75	P		15:14:26.463	-0.7					T__					m_e
PLN	14.00	P		15:15:24.115	-0.3					T__					m_e
RJOB	11.43	Sn		15:16:51.646	0.6					T__					m_e
RJOB	11.43	P		15:14:49.216	-0.6					T__					m_e
ROTZ	13.36	P		15:15:14.743	-1.1					T__					m_e
RUE	15.37	P		15:15:47.446	4.9					T__					m_e
TANN	13.84	P		15:15:22.657	0.3					T__					m_e
TNS	15.14	P		15:15:39.119	-0.4					T__					m_e
UBBA	15.01	P		15:15:38.702	0.9					T__					m_e
UBR	12.50	Sn		15:17:16.227	-0.3					T__					m_e
UBR	12.50	P		15:15:07.245	2.9					T__					m_e
WET	12.60	P		15:15:04.121	-1.5					T__					m_e
WLF	15.76	P		15:15:50.363	2.7					T__		223.7	0.91	m_e mb	5.3

GEC2	146.89	PKPbc	21:46:18.442	3.0	3.05	TAS							m_e	
GEC2	146.89	L	22:47:29.875			T__	50.6	18.00	a_e	Ms				4.3
GRA1	146.20	PKPbc	21:46:15.958	3.0	3.05	TAS							m_e	
GRA1	146.20	L	22:52:29.250			T__	54.4	18.40	a_e	Ms				4.4
GTTG	144.37	PKPbc	21:46:10.374	3.0	3.05	TAS							m_e	
MANZ	145.87	PKPbc	21:46:15.333	3.0	3.05	TAS							m_e	
MOX	145.23	PKPbc	21:46:13.213	3.0	3.05	TAS							m_e	
MOX	145.23	L	22:48:21.838			T__	48.4	19.50	a_e	Ms				4.3
PLN	145.36	PKPbc	21:46:13.637	3.0	3.05	TAS							m_e	
RJOB	148.06	PKPbc	21:46:21.551	3.0	3.05	TAS							m_e	
ROTZ	146.08	PKPbc	21:46:16.039	3.0	3.05	TAS							m_e	
TANN	145.42	PKPbc	21:46:14.202	3.0	3.05	TAS							m_e	
TNS	145.69	PKPbc	21:46:15.272	3.0	3.05	TAS							m_e	
UBBA	145.10	PKPbc	21:46:13.296	3.0	3.05	TAS							m_e	
WET	146.66	L	22:46:54.142			T__	20.3	18.90	a_e	Ms				3.9
WLF	146.15	PKPbc	21:46:17.212	3.0	3.05	TAS							m_e	

Event 81031002 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/31	07:26:23.26			26.9000	-44.3510				10.0					47.41	49.79	m i ke	BGR
81031008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81031008
Ms	4.3		BGR	81031008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	49.79		P	07:35:14.274		261.7		7.52		TAS		14.2	1.30	m_e	mb 4.7
BSEG	48.06		P	07:35:00.857		261.7		7.52		TAS		41.0	1.22	m_e	mb 5.4
CLL	49.25		P	07:35:09.717		261.7		7.52		TAS		10.3	1.04	m_e	mb 4.8
FLT1	48.32		P	07:35:02.614		261.7		7.52		TAS		30.0	1.55	m_e	mb 5.2
GEC2	49.46		P	07:35:10.904		261.7		7.52		TAS		10.0	1.06	m_e	mb 4.8
GRA1	47.93		P	07:35:01.222		261.7		7.52		TAS		15.8	1.07	m_e	mb 5.1
GRA1	47.93		L	07:51:09.994						T__		280.1	21.80	a_e	Ms 4.2
GTTG	47.41		P	07:34:56.230		261.7		7.52		TAS		11.4	0.88	m_e	mb 5.0
MANZ	48.53		P	07:35:04.240		261.7		7.52		TAS		3.1	1.15	m_e	mb 4.2
MOX	48.30		L	07:51:23.934						T__		432.9	21.60	a_e	Ms 4.4
NRDL	47.66		P	07:34:58.207		261.7		7.52		TAS		24.9	1.04	m_e	mb 5.3
ROTZ	48.57		P	07:35:03.961		261.7		7.52		TAS		2.0	1.15	m_e	mb 4.0
TANN	48.81		P	07:35:06.519		261.7		7.52		TAS		7.6	1.08	m_e	mb 4.7
WET	48.94		P	07:35:07.148		261.7		7.52		TAS		10.4	1.31	m_e	mb 4.7

Event 81031003 Yunnan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/31	08:29:57.54			26.6650	101.9520				33.0			21		68.25	73.71	m i ke	BGR
OrigID 81031009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	81031009
Ms	4.4		BGR	81031009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	72.86		P	08:41:21.644		71.5		6.11		TAS		19.3	0.98	m_e	mb 5.2
BFO	72.86		L	09:14:48.581						T__		157.7	19.10	a_e	Ms 4.3
BRG	68.59		P	08:40:55.677	-0.4	71.5		6.11		TAS		30.8	1.13	m_e	mb 5.4
BSEG	69.83		P	08:41:03.703	0.4	71.5		6.11		TAS		73.1	1.14	m_e	mb 5.7
BSEG	69.83		L	09:13:02.235						T__		255.4	21.40	a_e	Ms 4.4
CLL	69.04		P	08:40:58.291	0.2	71.5		6.11		TAS		31.4	1.10	m_e	mb 5.5
CLZ	70.44		P	08:41:07.055	0.7	71.5		6.11		TAS		57.6	1.19	m_e	mb 5.6
FLT1	69.78		P	08:41:02.545	-0.2	71.5		6.11		TAS		27.2	1.05	m_e	mb 5.3
FUR	71.07		L	09:12:55.620						T__		237.6	21.10	a_e	Ms 4.4
GEC2	69.32		P	08:41:00.635	0.3	71.5		6.11		TAS		24.0	1.08	m_e	mb 5.3
GEC2	69.32		L	09:13:16.056						T__		260.8	21.20	a_e	Ms 4.5
GOR1	69.54		P	08:41:01.926	-0.4	71.5		6.11		TAS		50.2	1.04	m_e	mb 5.6
GRA1	70.61		P	08:41:08.972	-0.4	71.5		6.11		TAS		37.6	1.15	m_e	mb 5.4
GRA1	70.61		L	09:13:30.582						T__		161.3	21.40	a_e	Ms 4.2
GTTG	70.78		P	08:41:08.844	-0.4	71.5		6.11		TAS		38.7	1.06	m_e	mb 5.5
MANZ	69.97		P	08:41:04.757	0.5	71.5		6.11		TAS		5.1	1.15	m_e	mb 4.5
MOX	70.07		P	08:41:04.813	0.2	71.5		6.11		TAS		17.2	1.15	m_e	mb 5.1
MOX	70.07		L	09:12:38.104						T__		161.8	21.50	a_e	Ms 4.2
NEUB	69.81		P	08:41:03.206	0.6	71.5		6.11		TAS		57.4	1.04	m_e	mb 5.6
NRDL	70.39		P	08:41:06.949	-0.1	71.5		6.11		TAS		84.5	1.25	m_e	mb 5.7
PLN	69.79		P	08:41:03.052	-0.6	71.5		6.11		TAS		20.5	1.29	m_e	mb 5.1
ROTZ	69.98		P	08:41:04.896	-0.2	71.5		6.11		TAS		13.4	1.12	m_e	mb 5.0
RUE	68.25		P	08:40:53.812	-0.3	71.5		6.11		TAS		74.5	1.20	m_e	mb 5.8
TANN	69.63		P	08:41:01.917	0.2	71.5		6.11		TAS		19.2	1.18	m_e	mb 5.1
TNS	72.12		P	08:41:17.273		71.5		6.11		TAS		19.8	0.97	m_e	mb 5.2
TNS	72.12		L	09:14:19.553						T__		167.6	19.70	a_e	Ms 4.3
WET	69.75		P	08:41:03.207	-0.2	71.5		6.11		TAS		22.9	1.10	m_e	mb 5.2
WET	69.75		L	09:11:51.436						T__		268.2	20.20	a_e	Ms 4.5
WLF	73.71		P	08:41:27.465		71.5		6.11		TAS		91.0	1.07	m_e	mb 5.7

Event 81031004 Xizang

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2018/10/31	23:09:01.91			30.2190	88.0510				33.0			14		57.48	61.57	m i ke	BGR
OrigID 81031010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	81031010
Ms	4.1		BGR	81031010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	61.57		L	23:48:08.849						T__		133.6	18.80	a_e	Ms	4.1
BRG	57.48		P	23:18:47.593	-0.7	86.6		6.38		TAS		8.7	1.18	m_e	mb	4.7
BSEG	59.16		P	23:18:58.036		86.6		6.38		TAS		9.8	0.84	m_e	mb	4.9
BSEG	59.16		L	23:46:06.917						T__		121.0	20.70	a_e	Ms	4.0
CLL	57.99		L	23:47:06.781						T__		233.7	18.10	a_e	Ms	4.3
CLZ	59.51		P	23:18:59.609		86.6		6.38		TAS		8.7	0.87	m_e	mb	4.8
FLT1	58.90		P	23:18:57.082		86.6		6.38		TAS		16.1	1.38	m_e	mb	4.9
FUR	59.70		L	23:47:28.707						T__		167.6	19.20	a_e	Ms	4.2
GEC2	57.98		P	23:18:51.179	0.5	86.6		6.38		TAS		34.0	1.82	m_e	mb	5.1
GEC2	57.98		L	23:46:13.558						T__		169.5	20.10	a_e	Ms	4.2
GOR1	58.74		P	23:18:57.265	1.1	86.6		6.38		TAS		26.0	1.21	m_e	mb	5.1
GRA1	59.41		P	23:19:00.500		86.6		6.38		TAS		19.2	1.15	m_e	mb	5.0
GRA1	59.41		L	23:45:33.420						T__		135.7	21.40	a_e	Ms	4.0
MANZ	58.79		P	23:18:57.680	-0.3	86.6		6.38		TAS		1.7	1.05	m_e	mb	4.0
MOX	58.97		P	23:18:57.146	-1.7	86.6		6.38		TAS		14.2	1.35	m_e	mb	4.8
MOX	58.97		L	23:45:08.255						T__		171.3	19.50	a_e	Ms	4.2
NEUB	58.78		P	23:18:56.522	-0.5	86.6		6.38		TAS		8.7	0.86	m_e	mb	4.8
NRDL	59.55		P	23:19:02.546		86.6		6.38		TAS		13.3	0.92	m_e	mb	5.0
PLN	58.66		P	23:18:55.988	-0.2	86.6		6.38		TAS		14.3	1.66	m_e	mb	4.7
ROTZ	58.77		P	23:18:57.562	1.2	86.6		6.38		TAS		11.0	1.81	m_e	mb	4.6
TANN	58.49		P	23:18:55.275	-0.8	86.6		6.38		TAS		9.5	1.17	m_e	mb	4.7
TNS	61.04		L	23:49:10.021						T__		153.1	20.90	a_e	Ms	4.1
UBR	60.57		L	23:47:07.795						T__		154.0	21.90	a_e	Ms	4.1
WET	58.46		L	23:43:19.305						T__		96.9	20.00	a_e	Ms	3.9