

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

(produced by SZO/BGR - HANNOVER)

February 2019 UPDATED 22.January 2021

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

Event 90201004 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/01	15:21:15.92			46.4940	-25.3230				33.0					24.46	24.46	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	90201010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	24.46		P	15:26:31.422		275.2		8.77		TAS		11.2	1.14	m_e mb	4.3

Event 90201005 Guatemala

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/01	16:14:22.46			15.6100	-90.3700				97.4	2.7		29		82.41	87.36	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90201011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.15		P	16:26:42.132	0.2	288.9		4.90		TAS		42.2	1.08	a_e mb	5.6
BFO	84.15		pP	16:27:07.275	-31.4					T__				m_e	
BRG	86.79		S	16:37:18.386	-31.4					T__				m_e	
BRG	86.79		P	16:26:55.132		288.9		4.90		TAS				a_e	
BSEG	83.68		S	16:37:02.621	-31.4					T__				m_e	
BSEG	83.68		P	16:26:40.232	0.2	288.9		4.90		TAS		121.3	0.97	a_e mb	6.0

BUG	82.62	P	16:26:34.782	-0.2	288.9	4.90	TAS	80.8	1.20	a_e	mb	5.6
CLL	86.09	S	16:37:14.325	-31.4			T__			m_e		
CLL	86.09	P	16:26:51.782		288.9	4.90	TAS			a_e		
CLZ	84.36	S	16:37:03.457	-31.4			T__			m_e		
CLZ	84.36	P	16:26:43.882	-0.1	288.9	4.90	TAS	66.7	1.01	m_e	mb	5.8
FLT1	84.71	S	16:37:03.099	-31.4			T__			m_e		
FLT1	84.71	P	16:26:44.882	0.1	288.9	4.90	TAS			a_e		
FUR	86.08	S	16:37:15.878	-31.4			T__			m_e		
FUR	86.08	P	16:26:52.032		288.9	4.90	TAS			a_e		
GEC2	87.36	S	16:37:20.297	-31.4			T__			m_e		
GEC2	87.36	P	16:26:57.982		288.9	4.90	TAS			a_e		
GEC2	87.36	pP	16:27:24.182	-31.4			T__			m_e		
GOR1	84.54	P	16:26:44.332	-0.0	288.9	4.90	TAS			a_e		
GRA1	85.55	S	16:37:13.370	-31.4			T__			m_e		
GRA1	85.55	P	16:26:49.832	-0.4	288.9	4.90	TAS			a_e		
GTTG	84.21	S	16:37:03.218	-31.4			T__			m_e		
GTTG	84.21	P	16:26:42.982	-0.1	288.9	4.90	TAS	118.3	1.05	a_e	mb	6.0
IBBN	82.68	S	16:36:54.619	-31.4			T__			m_e		
IBBN	82.68	P	16:26:35.132	-0.1	288.9	4.90	TAS	97.3	1.30	a_e	mb	5.7
KAST	83.38	P	16:26:38.732	0.4	288.9	4.90	TAS	65.7	1.23	a_e	mb	5.6
MANZ	86.00	S	16:37:16.236	-31.4			T__			m_e		
MANZ	86.00	P	16:26:51.732	-0.3	288.9	4.90	TAS			a_e		
MOX	85.48	S	16:37:11.579	-31.4			T__			m_e		
MOX	85.48	P	16:26:49.032	-0.2	288.9	4.90	TAS			a_e		
NEUB	85.39	S	16:37:09.429	-31.4			T__			m_e		
NEUB	85.39	P	16:26:48.732	0.0	288.9	4.90	TAS			a_e		
NRDL	84.00	S	16:36:59.636	-31.4			T__			m_e		
NRDL	84.00	P	16:26:42.032	0.3	288.9	4.90	TAS	72.5	1.04	a_e	mb	5.8
PLN	85.86	S	16:37:14.923	-31.4			T__			m_e		
PLN	85.86	P	16:26:50.932	0.3	288.9	4.90	TAS			a_e		
PLN	85.86	pP	16:27:16.775	-31.4			T__			m_e		
RETH	83.50	P	16:26:39.682	0.1	288.9	4.90	TAS	515.3	1.14	a_e	mb	6.6
RETH	83.50	pP	16:27:05.215	-31.4			T__			m_e		
ROTZ	86.13	S	16:37:16.236	-31.4			T__			m_e		
ROTZ	86.13	P	16:26:52.532		288.9	4.90	TAS			a_e		
RUE	86.13	P	16:26:51.832		288.9	4.90	TAS			a_e		
STU	84.57	P	16:26:44.482	0.0	288.9	4.90	TAS			a_e		
TANN	86.07	S	16:37:16.117	-31.4			T__			m_e		
TANN	86.07	P	16:26:51.982	-0.3	288.9	4.90	TAS			a_e		
TANN	86.07	pP	16:27:17.287	-31.4			T__			m_e		
TNS	83.68	S	16:37:01.666	-31.4			T__			m_e		
TNS	83.68	P	16:26:40.382	-0.4	288.9	4.90	TAS	105.8	1.07	a_e	mb	5.9
UBBA	84.45	S	16:37:04.890	-31.4			T__			m_e		
UBBA	84.45	P	16:26:44.182	0.1	288.9	4.90	TAS	132.0	1.78	a_e	mb	5.9
UBR	85.49	S	16:37:12.534	-31.4			T__			m_e		
UBR	85.49	P	16:26:49.232	0.3	288.9	4.90	TAS			a_e		
WET	86.75	S	16:37:19.341	-31.4			T__			m_e		
WET	86.75	P	16:26:55.582		288.9	4.90	TAS			a_e		
WLF	82.41	P	16:26:33.932	-0.3	288.9	4.90	TAS	61.4	1.01	a_e	mb	5.6

WLF 82.41 pP 16:26:59.358 -31.4 T__ m_e

Event 90201006 Kazakhstan-Xinjiang border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/01	21:54:48.85			46.2540	82.1550				33.0			28		43.44	48.97	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90201012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	48.30		P	22:03:24.748		65.8		7.89		TAS		10.1	0.90	m_e mb	5.0
BRG	43.92		P	22:02:50.626	-0.8	65.8		7.89		TAS		8.4	0.90	m_e mb	4.5
BSEG	44.88		P	22:02:58.050	-1.0	65.8		7.89		TAS		16.5	0.76	m_e mb	5.0
BUG	47.56		P	22:03:19.259		65.8		7.89		TAS		20.5	1.05	m_e mb	5.2
CLL	44.31		P	22:02:53.043	0.8	65.8		7.89		TAS		20.3	0.89	m_e mb	4.9
CLZ	45.63		P	22:03:04.020	1.3	65.8		7.89		TAS		13.4	1.19	m_e mb	4.8
FLT1	44.95		P	22:02:57.584	-0.1	65.8		7.89		TAS		10.6	0.83	m_e mb	4.8
FUR	46.60		P	22:03:12.708	0.1	65.8		7.89		TAS		29.5	0.92	m_e mb	5.4
GEC2	44.85		P	22:02:57.817	0.8	65.8		7.89		TAS		6.5	0.93	m_e mb	4.5
GOR1	44.67		P	22:02:56.886	-0.2	65.8		7.89		TAS		32.4	1.14	m_e mb	5.2
GRA1	45.99		P	22:03:07.836	0.0	65.8		7.89		TAS		22.1	0.87	m_e mb	5.2
GTTG	45.98		P	22:03:07.164	-0.8	65.8		7.89		TAS		36.5	0.90	m_e mb	5.4
IBBN	46.93		P	22:03:13.872	-0.2	65.8		7.89		TAS		26.2	0.69	m_e mb	5.5
KAST	47.00		P	22:03:14.803	-0.6	65.8		7.89		TAS		8.7	0.88	m_e mb	4.9
MANZ	45.35		P	22:03:02.005	-0.3	65.8		7.89		TAS		1.5	1.08	m_e mb	3.9
MOX	45.38		P	22:03:02.703	0.6	65.8		7.89		TAS		12.9	0.87	m_e mb	4.9
NEUB	45.07		P	22:02:59.446	-0.1	65.8		7.89		TAS		29.8	1.15	m_e mb	5.1
NRDL	45.53		P	22:03:03.634	0.5	65.8		7.89		TAS		36.9	1.11	m_e mb	5.3
PLN	45.12		P	22:03:00.144	-0.2	65.8		7.89		TAS		4.6	0.94	m_e mb	4.4
RETH	45.85		P	22:03:05.966	0.7	65.8		7.89		TAS		30.4	0.88	m_e mb	5.3
RJOB	45.86		P	22:03:07.124	-0.6	65.8		7.89		TAS		20.9	0.94	m_e mb	5.2
ROTZ	45.38		P	22:03:02.005	0.0	65.8		7.89		TAS		2.6	1.11	m_e mb	4.1
RUE	43.44		P	22:02:46.518	-0.2	65.8		7.89		TAS		114.4	1.66	m_e mb	5.3
STU	47.59		P	22:03:19.593		65.8		7.89		TAS				m_e	
TANN	44.97		P	22:02:58.980	-0.4	65.8		7.89		TAS		12.2	0.93	m_e mb	4.8
TNS	47.40		P	22:03:17.129	0.2	65.8		7.89		TAS				m_e	
UBBA	46.25		P	22:03:08.505	-1.1	65.8		7.89		TAS		20.2	1.50	m_e mb	4.9
WET	45.23		P	22:03:00.842	-0.1	65.8		7.89		TAS		12.0	0.95	m_e mb	4.8
WLF	48.97		P	22:03:30.766		65.8		7.89		TAS				m_e	

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/01	23:48:16.79			-23.6000	-178.5600				110.8	2.4		30		148.98	154.99	m i k e	BGR
90202007																	

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	154.72		PKPab	00:08:20.209		12.0		4.48		TAS					m_e
BRG	151.10		PKPdf	00:07:50.164	0.0	5.7		1.39		TAS					m_e
BRG	151.10		PKPbc	00:07:56.869	0.2	15.2		2.30		TAS					m_e
BRG	151.10		pPKPbc	00:08:26.844						T__					m_e
BSEG	148.98		PKPbc	00:07:51.376	-0.1	15.2		2.30		TAS					m_e
BUG	151.84		PKPdf	00:07:50.377	-0.0	5.7		1.39		TAS					m_e
BUG	151.84		PKPbc	00:07:57.934	0.1	15.2		2.30		TAS					m_e
CLL	150.93		PKPbc	00:07:56.444	0.0	15.2		2.30		TAS					m_e
CLL	150.93		pPKPbc	00:08:26.563						T__					m_e
CLZ	150.98		PKPbc	00:07:56.763	0.1	15.2		2.30		TAS					m_e
CLZ	150.98		pPKPbc	00:08:26.153						T__					m_e
FLT1	150.35		PKPdf	00:07:48.674	-0.5	5.7		1.39		TAS					m_e
FLT1	150.35		PKPbc	00:07:54.528	0.3	15.2		2.30		TAS					m_e
FLT1	150.35		pPKPbc	00:08:24.639						T__					m_e
FUR	154.27		PKPab	00:08:19.825		12.0		4.48		TAS					m_e
GEC2	153.00		PKPdf	00:07:53.038		5.7		1.39		TAS					m_e
GEC2	153.00		PKPbc	00:08:01.414		15.2		2.30		TAS					m_e
GEC2	153.00		PKPab	00:08:14.261		12.0		4.48		TAS					m_e
GOR1	149.71		PKPdf	00:07:48.674	0.3	5.7		1.39		TAS					m_e
GOR1	149.71		PKPbc	00:07:53.238	0.1	15.2		2.30		TAS					m_e
GRA1	152.85		PKPdf	00:07:52.612		5.7		1.39		TAS					m_e
GRA1	152.85		PKPab	00:08:12.940		12.0		4.48		TAS					m_e
GTTG	151.34		PKPbc	00:07:57.295	-0.1	15.2		2.30		TAS					m_e
IBBN	150.93		PKPdf	00:07:49.100	0.1	5.7		1.39		TAS					m_e
IBBN	150.93		PKPbc	00:07:55.565	0.6	15.2		2.30		TAS					m_e
KAST	151.92		PKPbc	00:07:58.147	-0.3	15.2		2.30		TAS					m_e
MANZ	152.37		PKPdf	00:07:51.867		5.7		1.39		TAS					m_e
MANZ	152.37		PKPbc	00:07:59.317	-0.1	15.2		2.30		TAS					m_e
MANZ	152.37		PKPab	00:08:11.305		12.0		4.48		TAS					m_e
MOX	151.87		PKPdf	00:07:50.803	-0.4	5.7		1.39		TAS					m_e
MOX	151.87		PKPbc	00:07:58.040	-0.3	15.2		2.30		TAS					m_e
MOX	151.87		PKPab	00:08:08.121		12.0		4.48		TAS					m_e
MOX	151.87		pPKPbc	00:08:28.449						T__					m_e
NEUB	151.31		PKPdf	00:07:50.590	-0.5	5.7		1.39		TAS					m_e
NEUB	151.31		PKPbc	00:07:57.189	0.1	15.2		2.30		TAS					m_e
NEUB	151.31		pPKPbc	00:08:27.065						T__					m_e
NRDL	150.40		PKPdf	00:07:48.887	-0.2	5.7		1.39		TAS					m_e
NRDL	150.40		PKPbc	00:07:54.867	-0.4	15.2		2.30		TAS					m_e
PLN	151.89		PKPdf	00:07:51.122	1.2	5.7		1.39		TAS					m_e
PLN	151.89		PKPbc	00:07:58.572	0.3	15.2		2.30		TAS					m_e
PLN	151.89		PKPab	00:08:09.007		12.0		4.48		TAS					m_e

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RETH	150.29	PKPdf	00:07:48.781	-0.1	5.7	1.39	TAS	m_e
RETH	150.29	PKPbc	00:07:54.401	-0.1	15.2	2.30	TAS	m_e
RJOB	154.26	PKPab	00:08:20.153		12.0	4.48	TAS	m_e
ROTZ	152.55	PKPab	00:08:12.177		12.0	4.48	TAS	m_e
RUE	149.66	PKPdf	00:07:48.781	-0.0	5.7	1.39	TAS	m_e
RUE	149.66	PKPbc	00:07:53.357	-0.2	15.2	2.30	TAS	m_e
STU	154.14	PKPbc	00:08:03.380		15.2	2.30	TAS	m_e
STU	154.14	PKPab	00:08:18.345		12.0	4.48	TAS	m_e
TANN	151.89	PKPdf	00:07:51.442		5.7	1.39	TAS	m_e
TANN	151.89	PKPbc	00:07:58.679	-0.0	15.2	2.30	TAS	m_e
TANN	151.89	PKPab	00:08:08.837		12.0	4.48	TAS	m_e
TNS	152.87	PKPdf	00:07:51.654		5.7	1.39	TAS	m_e
TNS	152.87	PKPbc	00:08:00.488	-0.1	15.2	2.30	TAS	m_e
TNS	152.87	PKPab	00:08:11.769		12.0	4.48	TAS	m_e
UBBA	152.03	PKPdf	00:07:51.335	0.2	5.7	1.39	TAS	m_e
UBBA	152.03	PKPab	00:08:08.243		12.0	4.48	TAS	m_e
UBR	154.99	PKPdf	00:07:56.657		5.7	1.39	TAS	m_e
UBR	154.99	PKPbc	00:08:05.384		15.2	2.30	TAS	m_e
WET	152.96	PKPdf	00:07:53.357		5.7	1.39	TAS	m_e
WET	152.96	PKPab	00:08:13.716		12.0	4.48	TAS	m_e
WLF	153.72	PKPdf	00:07:52.399		5.7	1.39	TAS	m_e
WLF	153.72	PKPbc	00:08:02.723		15.2	2.30	TAS	m_e
WLF	153.72	PKPab	00:08:15.299		12.0	4.48	TAS	m_e

Event 90202002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	01:11:39.80			-16.6800	-173.6300				40.0					146.84	146.84	m i ke	EMSC
90202034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.84		PKP	01:31:17.785		8.5		2.28		TAS					m_e
GRA1	146.84		pPKP	01:31:37.401						T__					m_e

Event 90202003 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	06:31:20.00			70.0800	-15.5100				10.0					24.05	24.05	m i ke	GFZ
90202055																	

Magnitude Err Nsta Author OrigID

mb 4.2 BGR 90202009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	24.05		P	06:36:34.840		337.8		8.68		TAS		8.0	1.01	m_e mb	4.2

Event 90202004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	07:02:01.90			-15.6200	-174.9800				270.0			20		145.65	145.65	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.65		PKP	07:21:08.371		10.6		1.76		TAS				m_e	

Event 90202005 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	07:31:53.10			70.1500	-15.5600				10.0					24.12	24.12	m i ke	EMSC

Magnitude Err Nsta Author OrigID

mb 4.2 BGR 90202011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	24.12		P	07:37:10.665		337.9		8.66		TAS		7.9	1.01	m_e mb	4.2

Event 90202006 Southwest of Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	09:03:18.54			-3.0540	98.1720				33.0					90.33	90.33	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb 5.0 BGR 90202012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	90.33		P	09:16:16.729		112.7		4.05		TAS		12.4	1.19	m_e mb	5.0

Event 90202007 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	09:18:49.20			70.0300	-15.4500				10.0					24.00	24.00	m i ke	EMSC
OrigID 90202039																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90202013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	24.00		P	09:24:02.797		337.7		9.48		TAS		102.3	1.84	m_e mb	5.0

Event 90202008 Southern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	09:27:35.10			-2.7300	100.1600				10.0				13	90.98	91.37	m i ke	EMSC
OrigID 90202040																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90202014
Ms	5.9		BGR	90202014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	91.37		S	09:51:36.771	1.3	138.5		6.31		TAS				m_e	
GRA1	91.37		P	09:40:41.337		111.8		3.94		TAS		47.4	1.03	m_e mb	5.8
GRA1	91.37		L	10:30:32.432						T__		4527.0	20.40	a_e Ms	5.9
GRA2	91.28		S	09:51:32.770	-0.2	138.5		6.31		TAS				m_e	
GRA3	91.31		S	09:51:36.771	-2.1	138.5		6.31		TAS				m_e	
GRA4	91.23		S	09:51:34.104	-2.6	138.5		6.31		TAS				m_e	
GRB1	91.08		S	09:51:31.436	-1.7	138.5		6.31		TAS				m_e	
GRB2	91.06		S	09:51:35.437		138.5		6.31		TAS				m_e	
GRB3	90.98		S	09:51:30.103		138.5		6.31		TAS				m_e	
GRB4	91.14		S	09:51:34.104		138.5		6.31		TAS				m_e	
GRB5	91.05		S	09:51:32.770		138.5		6.31		TAS				m_e	
GRC1	91.14		S	09:51:28.769		138.5		6.31		TAS				m_e	
GRC2	91.23		S	09:51:30.103		138.5		6.31		TAS				m_e	
GRC3	91.10		S	09:51:34.104		138.5		6.31		TAS				m_e	
GRC4	91.15		S	09:51:30.103		138.5		6.31		TAS				m_e	

Event 90202010 Southern Sumatera, Indonesia

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Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	10:59:29.20			-2.8900	100.1000				10.0					91.45	91.45	m i ke	NEIC
OrigID 90202049																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90202016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	91.45		P	11:12:36.008		92.7		3.84		TAS		48.4	1.29	m_e mb	5.7

Event 90202009 Southern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	11:01:39.60			-2.7500	100.2500				10.0					91.45	91.45	m i ke	NEIC
OrigID 90202048																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90202015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	91.45		P	11:14:45.489		92.7		3.90		TAS		39.7	1.05	m_e mb	5.7

Event 90202011 Hindu Kush, Afghanistan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/02	12:04:33.40			36.1100	70.8100				223.0	4.3		30		42.75	47.84	m i ke	BGR
OrigID 90202017																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90202017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	46.63		P	12:12:38.766	0.2	85.5		7.83		TAS		54.7	0.86	m_e mb	5.7
BFO	46.63		PcP	12:14:08.915		83.0		3.75		TAS				m_e	
BRG	42.75		P	12:12:08.843	-0.3	85.5		7.83		TAS		192.6	0.71	m_e mb	5.9
BSEG	44.85		P	12:12:25.493	0.0	85.5		7.83		TAS		227.7	0.80	a_e mb	6.2
BUG	46.89		P	12:12:41.293		85.5		7.83		TAS		172.4	0.95	a_e mb	6.2
BUG	46.89		PcP	12:14:09.846		83.0		3.75		TAS				m_e	
CLL	43.32		P	12:12:12.893	-0.7	85.5		7.83		TAS		117.7	0.85	a_e mb	5.6
CLZ	44.92		P	12:12:26.143	0.2	85.5		7.83		TAS		140.6	0.90	a_e mb	5.9
CLZ	44.92		pP	12:13:14.717						T__				m_e	
CLZ	44.92		PcP	12:14:03.717		83.0		3.75		TAS				m_e	

FUR	44.71	P	12:12:24.349	0.3	85.5	7.83	TAS	164.7	0.71	m_e	mb	6.1
FUR	44.71	PcP	12:14:02.746	-0.8	83.0	3.75	TAS			m_e		
GEC2	43.03	P	12:12:11.043	-0.0	85.5	7.83	TAS	62.3	0.86	a_e	mb	5.4
GOR1	44.29	P	12:12:21.024	0.1	85.5	7.83	TAS	366.3	1.24	m_e	mb	6.0
GRA1	44.57	P	12:12:24.093	0.8	85.5	7.83	TAS	139.8	0.78	a_e	mb	6.0
GRA1	44.57	pP	12:13:11.165				T__			m_e		
GTTG	45.20	P	12:12:28.343	-0.4	85.5	7.83	TAS	260.1	0.80	a_e	mb	6.2
GTTG	45.20	PcP	12:14:04.029		83.0	3.75	TAS			m_e		
IBBN	46.49	P	12:12:38.193	-0.2	85.5	7.83	TAS	269.4	0.85	a_e	mb	6.3
KAST	46.20	P	12:12:35.743	-0.1	85.5	7.83	TAS	55.3	1.06	a_e	mb	5.5
KAST	46.20	PcP	12:14:07.984		83.0	3.75	TAS			m_e		
MANZ	43.97	P	12:12:19.043	0.4	85.5	7.83	TAS	27.4	0.90	a_e	mb	5.0
MANZ	43.97	pP	12:13:06.793				T__			m_e		
MANZ	43.97	PcP	12:14:00.654	-0.2	83.0	3.75	TAS			m_e		
MOX	44.23	P	12:12:20.693	-0.1	85.5	7.83	TAS	107.3	0.76	a_e	mb	5.7
MOX	44.23	PcP	12:14:01.251	-0.2	83.0	3.75	TAS			m_e		
NEUB	44.10	P	12:12:19.343	-0.4	85.5	7.83	TAS	255.4	0.81	a_e	mb	6.0
NEUB	44.10	PcP	12:14:00.878	-0.9	83.0	3.75	TAS			m_e		
NRDL	45.04	P	12:12:27.093	0.0	85.5	7.83	TAS	176.0	0.87	a_e	mb	6.0
NRDL	45.04	pP	12:13:15.775				T__			m_e		
NRDL	45.04	PcP	12:14:03.796		83.0	3.75	TAS			m_e		
PLN	43.90	P	12:12:17.993	-0.2	85.5	7.83	TAS	32.8	0.84	a_e	mb	5.1
PLN	43.90	pP	12:13:05.764				T__			m_e		
PLN	43.90	PcP	12:14:00.131	0.7	83.0	3.75	TAS			m_e		
RETH	45.48	P	12:12:30.393	0.1	85.5	7.83	TAS	447.8	1.03	a_e	mb	6.3
RGN	43.08	P	12:12:11.443	0.7	85.5	7.83	TAS	1023.3	1.00	a_e	mb	6.5
RJOB	43.74	P	12:12:16.553	0.3	85.5	7.83	TAS	127.5	0.88	m_e	mb	5.7
RJOB	43.74	PcP	12:13:59.010	0.3	83.0	3.75	TAS			m_e		
ROTZ	43.93	P	12:12:18.893	0.6	85.5	7.83	TAS	40.4	1.12	a_e	mb	5.1
ROTZ	43.93	pP	12:13:06.151				T__			m_e		
RUE	42.80	P	12:12:08.593	-0.8	85.5	7.83	TAS	298.6	0.88	a_e	mb	6.0
RUE	42.80	PcP	12:13:51.837	0.2	83.0	3.75	TAS			m_e		
STU	46.00	P	12:12:34.443	-0.4	85.5	7.83	TAS	305.5	0.82	a_e	mb	6.4
STU	46.00	PcP	12:14:07.053		83.0	3.75	TAS			m_e		
TANN	43.71	P	12:12:16.643	-0.1	85.5	7.83	TAS	94.0	0.94	a_e	mb	5.5
TANN	43.71	pP	12:13:04.557				T__			m_e		
TNS	46.29	P	12:12:36.843	-0.1	85.5	7.83	TAS	91.2	0.99	a_e	mb	5.8
TNS	46.29	PcP	12:14:07.984		83.0	3.75	TAS			m_e		
UBBA	45.24	P	12:12:28.300	0.1	85.5	7.83	TAS	64.9	0.67	m_e	mb	5.7
UBBA	45.24	pP	12:13:15.976				T__			m_e		
UBBA	45.24	PcP	12:14:04.028		83.0	3.75	TAS			m_e		
UBR	45.55	P	12:12:30.593	0.1	85.5	7.83	TAS	204.8	0.66	a_e	mb	6.3
UBR	45.55	pP	12:13:18.518				T__			m_e		
UBR	45.55	PcP	12:14:04.727		83.0	3.75	TAS			m_e		
WET	43.55	P	12:12:14.846	-0.3	85.5	7.83	TAS	117.2	1.60	m_e	mb	5.4
WLF	47.84	P	12:12:49.193		85.5	7.83	TAS	281.9	1.00	a_e	mb	6.3
WLF	47.84	pP	12:13:37.311				T__			m_e		

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2019/02/04 03:51:43.33 47.1710 150.7930 33.0 77.37 77.37 m i ke BGR
90204007

Magnitude Err Nsta Author OrigID
mb 5.2 BGR 90204007

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 77.37 P 04:03:33.413 24.3 4.76 TAS 18.0 0.88 m_e mb 5.2

Event 90204002 Southeast of Loyalty Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/02/04 12:13:30.40 -21.0200 169.5900 80.0 146.63 146.63 m i ke EMSC
90204034

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 146.63 PKP 12:33:02.755 38.8 2.60 TAS m_e

Event 90204003 Luzon, Philippine Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/02/04 12:55:31.54 16.8010 120.4410 33.0 89.22 89.22 m i ke BGR
90204009

Magnitude Err Nsta Author OrigID
mb 4.9 BGR 90204009

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 89.22 P 13:08:23.626 66.6 4.22 TAS 6.7 0.82 m_e mb 4.9

Event 90204004 Puerto Rico region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/02/04 14:33:56.73 19.1360 -66.7040 33.0 67.90 67.90 m i ke BGR
90204010

Magnitude Err Nsta Author OrigID
mb 5.4 BGR 90204010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	67.90		P	14:44:51.808		268.6		6.60		TAS		24.6	0.99	m_e mb	5.4

Event 90204005 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/04	15:18:34.87			-19.4300	-177.6800				33.0			26		145.01	151.12	m i ke	BGR
OrigID 90204011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.76		PKPbc	15:38:23.505		15.0		2.73		TAS				a_e	
BFO	150.76		PKPab	15:38:30.509		15.1		4.06		TAS				m_e	
BRG	147.30		PKPbc	15:38:14.705	0.2	15.0		2.73		TAS				m_e	
BSEG	145.01		PKPbc	15:38:07.505	-0.2	15.0		2.73		TAS				a_e	
CLL	147.09		PKPbc	15:38:13.955	0.1	15.0		2.73		TAS				a_e	
CLZ	147.04		PKPbc	15:38:14.105	0.2	15.0		2.73		TAS				a_e	
FLT1	146.43		PKPbc	15:38:11.705	0.0	15.0		2.73		TAS				a_e	
FUR	150.43		PKPbc	15:38:22.755		15.0		2.73		TAS				a_e	
GEC2	149.25		PKPbc	15:38:19.905	-0.6	15.0		2.73		TAS				a_e	
GOR1	145.78		PKPbc	15:38:10.069	0.0	15.0		2.73		TAS				m_e	
GRA1	148.98		PKPbc	15:38:19.081	-0.4	15.0		2.73		TAS				m_e	
GRA1	148.98		PKPab	15:38:23.802		15.1		4.06		TAS				m_e	
GTTG	147.39		PKPbc	15:38:15.005	0.2	15.0		2.73		TAS				a_e	
KAST	147.93		PKPbc	15:38:16.255	0.3	15.0		2.73		TAS				a_e	
KAST	147.93		PKPab	15:38:18.683		15.1		4.06		TAS				m_e	
MANZ	148.53		PKPbc	15:38:18.105	0.3	15.0		2.73		TAS				a_e	
MOX	147.99		PKPbc	15:38:16.505	0.3	15.0		2.73		TAS				a_e	
MOX	147.99		PKPab	15:38:19.011		15.1		4.06		TAS				m_e	
NEUB	147.44		PKPbc	15:38:14.955	0.3	15.0		2.73		TAS				a_e	
NRDL	146.45		PKPbc	15:38:12.055	0.4	15.0		2.73		TAS				a_e	
PLN	148.04		PKPbc	15:38:16.655	0.1	15.0		2.73		TAS				a_e	
PLN	148.04		PKPab	15:38:19.424		15.1		4.06		TAS				m_e	
RETH	146.31		PKPbc	15:38:11.755	-0.3	15.0		2.73		TAS				a_e	
ROTZ	148.72		PKPbc	15:38:18.605	-0.1	15.0		2.73		TAS				a_e	
ROTZ	148.72		PKPab	15:38:22.466		15.1		4.06		TAS				m_e	
RUE	145.83		PKPbc	15:38:10.155	-0.0	15.0		2.73		TAS				a_e	
STU	150.21		PKPbc	15:38:22.208		15.0		2.73		TAS				m_e	
STU	150.21		PKPab	15:38:27.796		15.1		4.06		TAS				m_e	
TANN	148.05		PKPbc	15:38:16.805	0.1	15.0		2.73		TAS				a_e	
TNS	148.89		PKPbc	15:38:18.905	-0.3	15.0		2.73		TAS				a_e	
TNS	148.89		PKPab	15:38:23.382		15.1		4.06		TAS				m_e	
UBBA	148.09		PKPbc	15:38:16.710	-0.1	15.0		2.73		TAS				m_e	
UBBA	148.09		PKPab	15:38:20.032		15.1		4.06		TAS				m_e	

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UBR	151.12	PKPbc	15:38:24.255	15.0	2.73	TAS	a_e
WLF	149.68	PKPbc	15:38:21.405	15.0	2.73	TAS	a_e
WLF	149.68	PKPab	15:38:26.641	15.1	4.06	TAS	m_e

Event 90204006 Near coast of Ecuador

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/04	17:45:45.60			-2.3900	-79.8500				49.0					92.50	92.50	m i ke	EMSC
OrigID 90204038																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90204012
Ms	4.8		BGR	90204012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.50		P	17:58:52.371		269.3		5.49		TAS		89.9	2.38	m_e mb	5.8
GRA1	92.50		pP	17:59:07.471						T__		89.9	2.38	m_e	
GRA1	92.50		L	18:36:26.632						T__		371.0	21.60	a_e Ms	4.8

Event 90204007 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/04	19:30:01.04			0.1910	97.6520				33.0					29	85.86	90.83	m i ke BGR
OrigID 90204013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90204013
Ms	5.5		BGR	90204013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	89.41		P	19:42:54.060	-0.3	92.6		4.79		TAS		29.6	1.11	a_e mb	5.4
BRG	85.87		P	19:42:37.610	0.1	92.6		4.79		TAS		70.5	1.55	m_e mb	5.6
BSEG	88.27		P	19:42:49.160	-0.1	92.6		4.79		TAS		133.2	1.50	a_e mb	6.0
BUG	90.09		P	19:42:57.660	-0.4	92.6		4.79		TAS		332.3	2.35	a_e mb	6.2
CLL	86.50		P	19:42:40.210	0.1	92.6		4.79		TAS		77.6	1.65	a_e mb	5.6
CLZ	88.16		P	19:42:48.660	0.0	92.6		4.79		TAS		193.5	1.75	a_e mb	6.1
FLT1	87.65		P	19:42:45.410	0.1	92.6		4.79		TAS		65.9	1.49	a_e mb	5.8
FUR	87.43		P	19:42:44.710	-0.2	92.6		4.79		TAS		35.4	1.16	a_e mb	5.4
GEC2	85.86		P	19:42:37.610	-0.0	92.6		4.79		TAS		218.2	1.94	a_e mb	6.0
GOR1	87.64		P	19:42:45.910	-0.0	92.6		4.79		TAS		150.8	1.50	a_e mb	6.1
GRA1	87.54		P	19:42:46.010	0.1	92.6		4.79		TAS		196.4	1.94	a_e mb	6.1
GRA1	87.54		L	20:30:13.491						T__		2013.2	20.30	a_e Ms	5.5
GTTG	88.41		P	19:42:49.760	-0.1	92.6		4.79		TAS		78.9	1.38	a_e mb	5.9

IBBN	89.79	P	19:42:56.310	-0.7	92.6	4.79	TAS	173.4	1.54	a_e	mb	6.0
KAST	89.37	P	19:42:54.410	-0.2	92.6	4.79	TAS	130.2	1.71	a_e	mb	5.9
MANZ	86.98	P	19:42:43.410	0.4	92.6	4.79	TAS	24.9	1.56	a_e	mb	5.1
MOX	87.33	P	19:42:44.660	0.0	92.6	4.79	TAS	79.5	1.67	a_e	mb	5.6
MOX	87.33	L	20:31:23.740				T__	1931.1	19.80	a_e	Ms	5.5
NEUB	87.26	P	19:42:44.010	0.0	92.6	4.79	TAS	100.2	1.50	a_e	mb	5.7
NRDL	88.35	P	19:42:49.760	-0.2	92.6	4.79	TAS	272.7	1.88	a_e	mb	6.3
PLN	86.98	P	19:42:42.910	-0.0	92.6	4.79	TAS	13.7	1.40	a_e	mb	4.9
RETH	88.81	P	19:42:51.610	0.3	92.6	4.79	TAS	217.4	1.28	a_e	mb	6.2
RGN	86.55	P	19:42:40.810	0.0	92.6	4.79	TAS	186.7	1.09	a_e	mb	6.1
ROTZ	86.90	P	19:42:42.960	0.2	92.6	4.79	TAS	11.4	1.48	a_e	mb	4.8
RUE	86.11	P	19:42:38.510	-0.0	92.6	4.79	TAS	417.8	1.88	a_e	mb	6.2
STU	88.84	P	19:42:51.760	-0.4	92.6	4.79	TAS	421.0	1.92	a_e	mb	6.3
TANN	86.78	P	19:42:41.910	0.2	92.6	4.79	TAS	90.5	1.90	a_e	mb	5.6
TNS	89.34	P	19:42:54.410	0.5	92.6	4.79	TAS	88.3	1.44	a_e	mb	5.8
UBBA	88.36	P	19:42:49.560	0.1	92.6	4.79	TAS	134.0	1.94	a_e	mb	5.9
UBR	88.20	P	19:42:48.510		92.6	4.79	TAS	25.3	1.28	a_e	mb	5.4
WLF	90.83	P	19:43:01.510	0.5	92.6	4.79	TAS	247.6	2.17	a_e	mb	6.2

Event 90204008 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/04	21:06:35.54			45.6160	-26.8270				33.0					25.76	25.76	m i ke	BGR
OrigID 90204014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90204014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	25.76		P	21:12:02.826		274.2		8.56		TAS		19.3	1.37	m_e	mb	4.5

Event 90205001 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/02/05	02:26:09.20	9.13	1.96	38.9600	20.5900	314.7	54.5	145	5.0				9	324	11.05	16.54	m i ke	NOA
OrigID 90205070																		

Magnitude	Err	Nsta	Author	OrigID
Ms	4.6		BGR	90205007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude		
BSEG	16.54		Pn	02:30:03.099	2.5					T__					m_e		
FUR	11.40		Pn	02:28:50.641	1.1					T__					m_e		

FUR	11.40	L	02:33:18.633		T__	7969.4	21.98	a_e Ms	4.6
GEC2	11.05	Pn	02:28:45.163	-1.2	T__			m_e	
GEC2	11.05	L	02:33:26.666		T__	9827.5	19.65	a_e Ms	4.7
GRA1	12.64	L	02:33:55.365		T__	7909.0	19.86	m_e Ms	4.7
MANZ	12.57	Pn	02:29:04.543	-1.3	T__			m_e	
MOX	13.29	Pn	02:29:14.888	-0.8	T__			m_e	
NRDL	15.36	Pn	02:29:46.761	3.1	T__			m_e	
PLN	12.98	Pn	02:29:12.558	0.7	T__			m_e	
ROTZ	12.35	Pn	02:28:59.226	-3.6	T__			m_e	
UBR	11.58	Pn	02:28:53.008	-0.5	T__			m_e	
UBR	11.58	L	02:33:23.120		T__	5015.5	21.44	a_e Ms	4.4

Event 90205004 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/05	15:11:52.00			36.6100	30.1300				7.0					18.94	18.94	m i ke	EMSC
90205036																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.0		BGR	90205010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	18.94		P	15:16:14.046		126.5		10.86		TAS		10.4	1.03	m_e mb	4.0

Event 90205005 Southwestern Kashmir

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/05	16:47:02.44			34.3700	74.4200				33.0				29	46.13	51.23	m i ke	BGR
90205011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	90205011
Ms	4.5		BGR	90205011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	50.04		P	16:55:53.829	0.7	84.8		7.68		TAS		16.0	0.83	a_e mb	5.0
BRG	46.13		P	16:55:24.179	-0.2	84.8		7.68		TAS		32.4	0.71	a_e mb	5.5
BSEG	48.18		P	16:55:40.129	-0.5	84.8		7.68		TAS		66.9	0.67	a_e mb	5.9
BUG	50.26		P	16:55:55.979	-0.8	84.8		7.68		TAS		59.3	0.92	a_e mb	5.5
CLL	46.70		P	16:55:28.079	-0.2	84.8		7.68		TAS		18.6	0.70	a_e mb	5.3
CLZ	48.29		P	16:55:41.129	0.1	84.8		7.68		TAS		46.2	0.84	a_e mb	5.6
FLT1	47.72		P	16:55:35.879	0.1	84.8		7.68		TAS		72.9	0.62	a_e mb	6.0
FUR	48.12		P	16:55:40.029	0.0	84.8		7.68		TAS		45.0	0.69	a_e mb	5.7

GEC2	46.44	P	16:55:26.479	0.2	84.8	7.68	TAS	11.9	0.95	a_e	mb	4.9
GOR1	47.64	P	16:55:35.329	0.0	84.8	7.68	TAS		1.17	m_e		
GRA1	47.97	P	16:55:39.254	-0.1	84.8	7.68	TAS	26.5	0.85	m_e	mb	5.4
GRFO	47.97	L	17:16:32.354				T__	661.9	20.80	a_e	Ms	4.6
GTTG	48.57	P	16:55:43.329	-0.2	84.8	7.68	TAS	55.1	0.70	a_e	mb	5.7
IBBN	49.85	P	16:55:52.879	-0.8	84.8	7.68	TAS	68.5	0.74	a_e	mb	5.7
KAST	49.58	P	16:55:50.748	-0.4	84.8	7.68	TAS	9.4	0.71	m_e	mb	4.8
MANZ	47.37	P	16:55:34.379	0.5	84.8	7.68	TAS	6.0	0.83	a_e	mb	4.8
MOX	47.62	P	16:55:35.879	-0.2	84.8	7.68	TAS	21.2	0.72	a_e	mb	5.4
MOX	47.62	L	17:17:46.954				T__	535.6	21.00	a_e	Ms	4.5
NEUB	47.48	P	16:55:34.429	-0.3	84.8	7.68	TAS	47.4	0.69	a_e	mb	5.7
NRDL	48.40	P	16:55:42.029	-0.9	84.8	7.68	TAS	37.7	0.76	a_e	mb	5.6
PLN	47.29	P	16:55:33.229	-0.1	84.8	7.68	TAS		0.69	a_e		
RETH	48.84	P	16:55:45.079	0.2	84.8	7.68	TAS		0.79	a_e		
RGN	46.40	P	16:55:27.379	1.6	84.8	7.68	TAS	223.1	0.96	a_e	mb	6.2
ROTZ	47.33	P	16:55:34.129	0.2	84.8	7.68	TAS	6.0	0.90	a_e	mb	4.7
RUE	46.16	P	16:55:23.729	-0.1	84.8	7.68	TAS	36.6	0.56	a_e	mb	5.6
STU	49.41	P	16:55:49.629	-0.4	84.8	7.68	TAS	49.2	0.39	a_e	mb	5.9
TANN	47.10	P	16:55:31.879	-0.0	84.8	7.68	TAS	19.1	0.92	m_e	mb	5.2
TNS	49.68	P	16:55:51.729	0.4	84.8	7.68	TAS	17.0	0.85	a_e	mb	5.0
UBBA	48.63	P	16:55:43.475	-0.1	84.8	7.68	TAS	16.3	0.66	m_e	mb	5.2
UBR	48.97	P	16:55:45.697		84.8	7.68	TAS	26.8	0.72	m_e	mb	5.4
WLF	51.23	P	16:56:03.829	0.7	84.8	7.68	TAS	41.3	0.67	a_e	mb	5.5

Event 90205006 Kyushu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/05	17:00:12.78			32.5810	131.4490				33.0					82.44	82.44	m i ke	BGR
90205012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90205012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	82.44		P	17:12:30.782		56.3		5.05		TAS		12.4	1.26	m_e	mb	4.9

Event 90205007 Eastern Caucasus

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/05	19:32:04.03			41.7450	45.0120				33.0					24.73	24.73	m i ke	BGR
90205013																	

Magnitude	Err	Nsta	Author	OrigID

mb 4.5 BGR 90205013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	24.73		P	19:37:22.080		101.3		8.89		TAS		13.1	1.24	m_e	mb 4.5

Event 90206001 Luzon, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/06	10:25:20.90			15.8300	120.6100				136.0					90.08	90.08	m i ke	EMSC
OrigID 90206033																	

Magnitude Err Nsta Author OrigID
mb 5.4 BGR 90206007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	90.08		P	10:38:05.168		65.2		4.24		TAS		26.9	0.98	m_e	mb 5.4

Event 90207001 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/07	01:41:32.80			-8.4700	161.0300				60.0					131.80	131.80	m i ke	EMSC
OrigID 90207033																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	131.80		PKPdf	02:00:39.313		41.9		1.23		TAS				m_e	

Event 90207002 Northern Molucca Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/07	04:15:30.20			1.4700	126.4700				46.0					104.35	104.92	m i ke	EMSC
OrigID 90207034																	

Magnitude Err Nsta Author OrigID
Ms 5.1 BGR 90207008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	104.92		Pdiff	04:29:37.114						T__				m_e	
GRA1	104.92		L	05:18:41.965						T__		670.6	21.20	a_e	Ms 5.2

MOX 104.35 L 05:21:29.638 T__ 569.3 21.70 a_e Ms 5.1

Event 90207003 Hokkaido, Japan, region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/02/07 07:57:58.58 42.6370 144.8990 58.6 79.50 79.50 m i ke BGR
90207009

Magnitude Err Nsta Author OrigID
mb 4.7 BGR 90207009

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 79.50 P 08:10:00.552 34.0 4.76 TAS 8.1 0.80 m_e mb 4.7
GRA1 79.50 pP 08:10:16.917 T__ m_e

Event 90208002 Southwest Indian Ridge

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/02/08 03:11:08.23 -31.9600 57.8140 33.0 91.22 91.81 m i ke BGR
90208008

Magnitude Err Nsta Author OrigID
mb 5.2 BGR 90208008
Ms 4.7 BGR 90208008

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 91.22 P 03:24:11.786 136.6 5.51 TAS 19.9 1.41 m_e mb 5.2
GRA1 91.22 L 04:03:25.669 T__ 229.8 20.50 a_e Ms 4.6
MOX 91.81 L 04:14:45.319 T__ 311.4 18.50 a_e Ms 4.8

Event 90208004 Mindanao, Philippine Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/02/08 11:55:08.40 9.7020 126.5580 25.0 32 95.19 101.36 m i ke NEIC
90208043

Magnitude Err Nsta Author OrigID
mb 6.3 BGR 90208010
MBB 6.8 BGR 90208010
Ms 5.8 BGR 90208010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	100.75		P	12:08:54.165		64.1		4.55		TAS		34.6	1.28	a_e	MBB 6.6
BRG	96.35		P	12:08:34.615	-0.0	64.1		4.55		TAS		178.4	1.69	a_e	MBB 6.7
BSEG	97.05		P	12:08:37.665	-0.6	64.1		4.55		TAS		66.5	0.95	a_e	MBB 6.7
BUG	99.86		P	12:08:50.315		64.1		4.55		TAS		75.2	1.02	a_e	MBB 6.8
CLL	96.72		P	12:08:35.915	-0.4	64.1		4.55		TAS		68.2	1.18	m_e	MBB 6.8
CLZ	97.97		P	12:08:42.265	0.1	64.1		4.55		TAS		96.6	1.13	a_e	MBB 6.8
DAVA	100.30		P	12:08:53.531		64.1		4.55		TAS				m_e	
FLT1	97.27		P	12:08:38.215	-0.1	64.1		4.55		TAS		60.0	1.10	a_e	MBB 6.6
FUR	99.06		P	12:08:47.215	-0.4	64.1		4.55		TAS		187.5	1.46	a_e	MBB 7.0
GEC2	97.31		P	12:08:39.015	-0.0	64.1		4.55		TAS		1460.0	3.18	a_e	MBB 6.6
GOR1	96.94		P	12:08:37.515	-0.1	64.1		4.55		TAS		411.1	1.75	a_e	MBB 7.1
GOR1	96.94		pP	12:08:47.624						T__				m_e	
GRA1	98.43		P	12:08:44.415	0.1	64.1		4.55		TAS		153.8	1.64	a_e	MBB 6.8
GRA1	98.43		L	12:57:18.748						T__		3392.2	20.40	a_e	Ms 5.8
GTTG	98.33		P	12:08:43.665	0.1	64.1		4.55		TAS		69.6	0.91	a_e	MBB 6.8
IBBN	99.18		P	12:08:47.415	-0.2	64.1		4.55		TAS		388.7	1.69	a_e	MBB 7.0
KAST	99.35		P	12:08:48.365	-0.6	64.1		4.55		TAS		49.2	1.08	a_e	MBB 6.7
KBA	98.24		P	12:08:43.887	0.1	64.1		4.55		TAS				m_e	
MANZ	97.79		P	12:08:41.415	0.3	64.1		4.55		TAS		63.7	2.15	a_e	MBB 6.1
MOX	97.79		P	12:08:41.165	-0.1	64.1		4.55		TAS		42.8	1.05	m_e	MBB 6.8
MOX	97.79		L	12:56:29.903						T__		2680.4	20.30	a_e	Ms 5.7
NEUB	97.47		P	12:08:39.515	0.2	64.1		4.55		TAS		439.2	1.98	a_e	MBB 6.8
NRDL	97.82		P	12:08:41.565	0.4	64.1		4.55		TAS		162.6	1.43	a_e	MBB 6.8
PLN	97.55		P	12:08:40.065	-0.0	64.1		4.55		TAS		21.9	1.24	a_e	MBB 6.3
RETH	98.11		P	12:08:42.515	0.2	64.1		4.55		TAS		667.4	1.65	a_e	MBB 7.4
RGN	95.19		P	12:08:29.315	0.1	64.1		4.55		TAS				a_e	
RJOB	98.32		P	12:08:43.315	-0.0	64.1		4.55		TAS		56.1	1.09	a_e	MBB 6.7
ROTZ	97.82		P	12:08:41.665	-0.5	64.1		4.55		TAS		18.4	1.26	a_e	MBB 6.2
RUE	95.80		P	12:08:32.115	0.1	64.1		4.55		TAS		136.8	1.03	a_e	MBB 6.8
STU	100.04		P	12:08:51.265		64.1		4.55		TAS		178.7	1.43	a_e	MBB 7.1
TANN	97.40		P	12:08:39.415	-0.0	64.1		4.55		TAS		64.6	1.36	a_e	MBB 6.6
TNS	99.79		P	12:08:50.415	0.2	64.1		4.55		TAS		44.8	1.07	a_e	MBB 6.8
UBBA	98.64		P	12:08:45.015	-0.3	64.1		4.55		TAS		166.2	1.81	a_e	MBB 6.8
UBR	99.98		P	12:08:50.915		64.1		4.55		TAS		151.7	1.68	a_e	MBB 6.9
WLF	101.36		P	12:08:57.715		64.1		4.55		TAS		123.4	1.20	a_e	MBB 6.7

Event 90209001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/09	02:24:16.31			44.2690	145.2160				122.3			28		74.86	80.32	m i ke	BGR
	90209007																

Magnitude Err Nsta Author OrigID
mb 5.4 BGR 90209007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	80.32		P	02:36:22.310	-0.2	31.8		5.56		TAS		30.9	1.09	m_e	mb 5.2
BRG	76.24		P	02:35:59.553	-0.2	31.8		5.56		TAS		22.8	1.00	m_e	mb 5.3
BSEG	74.86		P	02:35:52.093	0.1	31.8		5.56		TAS		64.5	1.05	m_e	mb 5.6
BUG	77.96		P	02:36:09.065	-0.1	31.8		5.56		TAS		61.1	1.09	m_e	mb 5.7
CLL	76.20		P	02:35:59.239	-0.3	31.8		5.56		TAS		82.4	1.06	m_e	mb 5.8
CLL	76.20		pP	02:36:30.000						T__				m_e	
CLZ	76.63		P	02:36:02.404	0.5	31.8		5.56		TAS		35.4	0.68	m_e	mb 5.6
FLT1	75.93		P	02:35:57.649	-0.4	31.8		5.56		TAS		66.3	1.07	m_e	mb 5.7
FUR	79.46		P	02:36:18.127	0.4	31.8		5.56		TAS		60.9	1.07	m_e	mb 5.5
GEC2	78.02		P	02:36:09.607	-0.0	31.8		5.56		TAS		19.5	1.01	m_e	mb 5.2
GOR1	75.35		P	02:35:55.189	0.4	31.8		5.56		TAS		38.5	0.94	m_e	mb 5.4
GRA1	78.18		P	02:36:10.974	0.4	31.8		5.56		TAS		78.7	1.08	m_e	mb 5.8
GTTG	77.01		P	02:36:04.215	0.2	31.8		5.56		TAS		49.0	0.99	m_e	mb 5.6
IBBN	77.05		P	02:36:04.380	0.2	31.8		5.56		TAS		64.2	1.02	m_e	mb 5.7
KAST	77.81		P	02:36:08.631	0.2	31.8		5.56		TAS		39.9	1.14	m_e	mb 5.5
MANZ	77.62		P	02:36:07.461	-0.0	31.8		5.56		TAS		3.2	0.91	m_e	mb 4.5
MOX	77.23		P	02:36:05.200	-0.1	31.8		5.56		TAS		31.6	1.13	m_e	mb 5.3
NEUB	76.72		P	02:36:02.197	-0.2	31.8		5.56		TAS		74.8	1.05	m_e	mb 5.8
NRDL	76.16		P	02:35:59.192	-0.1	31.8		5.56		TAS		16.9	0.78	m_e	mb 5.2
PLN	77.18		P	02:36:05.035	0.0	31.8		5.56		TAS		6.6	1.02	m_e	mb 4.7
RETH	76.19		P	02:35:59.569	0.2	31.8		5.56		TAS		132.6	0.79	m_e	mb 6.1
RJOB	79.27		P	02:36:17.116	0.5	31.8		5.56		TAS		26.4	0.91	m_e	mb 5.3
ROTZ	77.77		P	02:36:08.652	0.3	31.8		5.56		TAS		6.8	1.02	m_e	mb 4.7
RUE	74.96		P	02:35:52.404	-0.2	31.8		5.56		TAS		57.6	0.98	m_e	mb 5.6
STU	79.65		P	02:36:18.581	-0.2	31.8		5.56		TAS		125.4	1.11	m_e	mb 5.8
TANN	77.14		P	02:36:04.707	-0.1	31.8		5.56		TAS		7.3	0.90	m_e	mb 4.8
TNS	78.64		P	02:36:13.028	-0.1	31.8		5.56		TAS		46.4	1.28	m_e	mb 5.4
UBBA	77.63		P	02:36:06.745	-0.7	31.8		5.56		TAS		10.5	0.75	m_e	mb 5.0
UBR	80.28		P	02:36:21.793	-0.5	31.8		5.56		TAS		354.4	3.65	m_e	mb 5.7

Event 90209003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/09	15:03:48.37			-20.5200	-178.5600				591.7			30		145.96	152.01	m i ke	BGR
90209009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.70		PKPbc	15:22:35.833		18.3		2.40		TAS				m_e	
BFO	151.70		PKPab	15:22:47.522		16.3		4.21		TAS				m_e	
BRG	148.15		PKPbc	15:22:28.144	0.5	18.3		2.40		TAS				m_e	
BRG	148.15		PKPab	15:22:32.987	-0.1	16.3		4.21		TAS				m_e	
BSEG	145.96		PKPbc	15:22:22.170	-0.2	18.3		2.40		TAS				m_e	

BUG	148.80	PKPbc	15:22:30.149	0.1	18.3	2.40	TAS	m_e
CLL	147.96	PKPbc	15:22:27.402	0.2	18.3	2.40	TAS	m_e
CLL	147.96	PKPab	15:22:31.980	-0.2	16.3	4.21	TAS	m_e
CLZ	147.97	PKPbc	15:22:27.886	0.3	18.3	2.40	TAS	m_e
CLZ	147.97	PKPab	15:22:32.537	-0.1	16.3	4.21	TAS	m_e
FBE	148.24	PKPbc	15:22:28.685		18.3	2.40	TAS	m_e
FBE	148.24	pPKPbc	15:24:44.454				T__	m_e
FLT1	147.35	PKPbc	15:22:25.466	-0.2	18.3	2.40	TAS	m_e
FLT1	147.35	PKPab	15:22:29.403	0.4	16.3	4.21	TAS	m_e
FUR	151.30	PKPbc	15:22:35.409	-0.5	18.3	2.40	TAS	m_e
FUR	151.30	PKPab	15:22:46.697		16.3	4.21	TAS	m_e
GEC2	150.07	PKPbc	15:22:32.659	0.0	18.3	2.40	TAS	m_e
GEC2	150.07	PKPab	15:22:41.446		16.3	4.21	TAS	m_e
GOR1	146.70	PKPbc	15:22:24.596	-0.5	18.3	2.40	TAS	m_e
GRA1	149.87	PKPbc	15:22:31.783	-0.0	18.3	2.40	TAS	m_e
GRA1	149.87	PKPab	15:22:40.544		16.3	4.21	TAS	m_e
GTTG	148.32	PKPbc	15:22:28.528	0.1	18.3	2.40	TAS	m_e
GTTG	148.32	PKPab	15:22:33.471	-0.0	16.3	4.21	TAS	m_e
IBBN	147.90	PKPbc	15:22:27.298	0.3	18.3	2.40	TAS	m_e
IBBN	147.90	PKPab	15:22:31.936	0.1	16.3	4.21	TAS	m_e
KAST	148.89	PKPbc	15:22:29.786	0.1	18.3	2.40	TAS	m_e
MANZ	149.40	PKPbc	15:22:31.042	-0.2	18.3	2.40	TAS	m_e
MOX	148.88	PKPbc	15:22:29.645	0.1	18.3	2.40	TAS	m_e
MOX	148.88	PKPab	15:22:35.826	-0.1	16.3	4.21	TAS	m_e
NEUB	148.33	PKPbc	15:22:28.524	0.0	18.3	2.40	TAS	m_e
NEUB	148.33	PKPab	15:22:33.761	-0.2	16.3	4.21	TAS	m_e
NRDL	147.38	PKPbc	15:22:25.767	0.0	18.3	2.40	TAS	m_e
NRDL	147.38	PKPab	15:22:30.020	-0.3	16.3	4.21	TAS	m_e
PLN	148.92	PKPbc	15:22:29.761	0.2	18.3	2.40	TAS	m_e
PLN	148.92	PKPab	15:22:36.127	-0.0	16.3	4.21	TAS	m_e
RETH	147.26	PKPbc	15:22:25.350	-0.3	18.3	2.40	TAS	m_e
RETH	147.26	PKPab	15:22:28.994	-0.3	16.3	4.21	TAS	m_e
RJOB	151.33	PKPbc	15:22:35.390		18.3	2.40	TAS	m_e
RJOB	151.33	PKPab	15:22:46.964		16.3	4.21	TAS	m_e
ROTZ	149.58	PKPbc	15:22:31.581	0.1	18.3	2.40	TAS	m_e
ROTZ	149.58	PKPab	15:22:39.085		16.3	4.21	TAS	m_e
RUE	146.70	PKPbc	15:22:24.094	-0.5	18.3	2.40	TAS	m_e
RUE	146.70	PKPab	15:22:27.163	0.4	16.3	4.21	TAS	m_e
STU	151.13	PKPbc	15:22:35.012	-0.6	18.3	2.40	TAS	m_e
STU	151.13	PKPab	15:22:45.403		16.3	4.21	TAS	m_e
TANN	148.92	PKPbc	15:22:29.828	0.3	18.3	2.40	TAS	m_e
TANN	148.92	PKPab	15:22:36.212	0.4	16.3	4.21	TAS	m_e
TNS	149.84	PKPbc	15:22:32.108	0.5	18.3	2.40	TAS	m_e
TNS	149.84	PKPab	15:22:39.797		16.3	4.21	TAS	m_e
UBBA	149.02	PKPbc	15:22:30.060	0.1	18.3	2.40	TAS	m_e
UBR	152.01	PKPbc	15:22:36.563		18.3	2.40	TAS	m_e
WLF	150.68	PKPbc	15:22:34.730	-0.2	18.3	2.40	TAS	m_e
WLF	150.68	PKPab	15:22:43.753		16.3	4.21	TAS	m_e

Event 90209004 Western Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/09	21:26:22.95			31.8190	49.7990				23.3					33.78	33.78	m i ke	BGR
OrigID 90209010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90209010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	33.78		P	21:33:02.815		110.4		9.86		TAS		13.7	1.01	m_e	mb 4.8
GRA1	33.78		pP	21:33:08.884						T__				m_e	

Event 90209005 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/09	23:01:16.00			-14.8900	-178.4500				366.0	1.3		12		144.41	147.28	m i ke	EMSC
OrigID 90209037																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	147.25		PKPbc	23:20:17.058		7.7		2.32		TAS				m_e	
BALST	147.25		pPKPbc	23:21:47.159						T__				m_e	
BERGE	146.66		PKPbc	23:20:14.891	0.7	7.7		2.32		TAS				m_e	
BERGE	146.66		pPKPbc	23:21:44.679						T__				m_e	
BFO	146.19		PKPbc	23:20:13.750	-0.5	7.7		2.32		TAS				m_e	
FUR	145.86		PKPbc	23:20:12.838	0.1	7.7		2.32		TAS				m_e	
GRA1	144.41		PKPbc	23:20:11.013	-1.0	7.7		2.32		TAS				m_e	
METMA	146.81		PKPbc	23:20:14.891		7.7		2.32		TAS				m_e	
METMA	146.81		pPKPbc	23:21:45.146						T__				m_e	
PLONS	147.28		PKPbc	23:20:17.172		7.7		2.32		TAS				m_e	
PLONS	147.28		pPKPbc	23:21:47.351						T__				m_e	
SLE	146.72		PKPbc	23:20:14.777	0.4	7.7		2.32		TAS				m_e	
SLE	146.72		pPKPbc	23:21:44.633						T__				m_e	
SULZ	147.00		PKPbc	23:20:15.917		7.7		2.32		TAS				m_e	
SULZ	147.00		pPKPbc	23:21:45.599						T__				m_e	
UBR	146.54		PKPbc	23:20:15.689		7.7		2.32		TAS				m_e	
WILA	147.00		PKPbc	23:20:16.145		7.7		2.32		TAS				m_e	
WLF	145.12		PKPbc	23:20:11.127	-0.2	7.7		2.32		TAS				m_e	

Event 90210009 Myanmar-India border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/10	03:22:08.61			26.5000	95.5000				33.0			34		64.46	69.88	m i ke	BGR
OrigID 90210015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90210015
Ms	4.5		BGR	90210015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	64.46		P	03:32:42.163	0.0	76.2		6.35		TAS		4.5	0.83	m_e	mb	4.7
BFO	68.90		P	03:33:10.168	0.4	76.2		6.35		TAS		12.3	1.06	m_e	mb	5.1
BRG	64.74		P	03:32:43.925	-0.2	76.2		6.35		TAS		19.8	0.98	m_e	mb	5.3
BSEG	66.27		P	03:32:54.011	0.5	76.2		6.35		TAS		41.7	0.91	m_e	mb	5.7
BUG	68.69		P	03:33:08.793	-0.4	76.2		6.35		TAS		25.3	0.98	m_e	mb	5.4
CLL	65.23		P	03:32:46.604	-0.7	76.2		6.35		TAS		19.0	1.08	m_e	mb	5.2
CLZ	66.72		P	03:32:56.945	0.3	76.2		6.35		TAS		40.5	0.81	m_e	mb	5.7
DAVA	68.18		P	03:33:05.642	0.1	76.2		6.35		TAS		26.0	1.29	m_e	mb	5.3
FUR	67.04		P	03:32:59.212	0.1	76.2		6.35		TAS		48.1	1.05	m_e	mb	5.7
GEC2	65.32		P	03:32:47.985	0.2	76.2		6.35		TAS		52.2	1.45	m_e	mb	5.6
GOR1	65.90		P	03:32:51.372	0.1	76.2		6.35		TAS		91.4	1.39	m_e	mb	5.8
GRA1	66.70		P	03:32:57.095	0.3	76.2		6.35		TAS		44.7	1.28	m_e	mb	5.5
GRA1	66.70		L	04:10:14.898						T__		212.0	19.70	a_e	Ms	4.4
GTTG	67.03		P	03:32:58.635	-0.2	76.2		6.35		TAS		22.2	0.89	m_e	mb	5.4
IBBN	68.16		P	03:33:05.574	-0.2	76.2		6.35		TAS		36.7	1.04	m_e	mb	5.5
KAST	68.06		P	03:33:04.981	-0.1	76.2		6.35		TAS		21.1	1.32	m_e	mb	5.2
KBA	65.95		P	03:32:51.345	-0.3	76.2		6.35		TAS		4.4	0.64	m_e	mb	4.8
MANZ	66.08		P	03:32:53.092	0.5	76.2		6.35		TAS		7.0	1.32	m_e	mb	4.7
MOA	65.17		P	03:32:46.746	0.0	76.2		6.35		TAS		12.8	1.05	m_e	mb	5.1
MOX	66.23		P	03:32:53.443	0.5	76.2		6.35		TAS		24.6	1.17	m_e	mb	5.3
MOX	66.23		L	04:04:29.522						T__		390.6	20.50	a_e	Ms	4.6
NEUB	66.01		P	03:32:51.902	-0.3	76.2		6.35		TAS		26.0	0.86	m_e	mb	5.5
NRDL	66.72		P	03:32:56.880	0.0	76.2		6.35		TAS		49.9	1.02	m_e	mb	5.7
OBKA	65.27		P	03:32:47.637	0.4	76.2		6.35		TAS		7.3	0.91	m_e	mb	4.9
PLN	65.93		P	03:32:51.538	-0.2	76.2		6.35		TAS		4.9	1.05	m_e	mb	4.7
RJOB	66.16		P	03:32:53.092	-0.2	76.2		6.35		TAS		12.1	1.07	m_e	mb	5.0
ROTZ	66.06		P	03:32:53.126	0.6	76.2		6.35		TAS		8.6	1.01	m_e	mb	4.9
RUE	64.53		P	03:32:42.157	-0.6	76.2		6.35		TAS		44.9	1.08	m_e	mb	5.6
STU	68.22		P	03:33:06.413	-0.1	76.2		6.35		TAS		87.8	1.10	m_e	mb	5.9
TANN	65.76		P	03:32:50.578	-0.1	76.2		6.35		TAS		20.3	1.08	m_e	mb	5.3
TNS	68.30		P	03:33:06.617	-0.3	76.2		6.35		TAS		23.4	0.99	m_e	mb	5.4
UBBA	67.19		P	03:32:59.377	-0.4	76.2		6.35		TAS		55.2	1.81	m_e	mb	5.5
UBR	67.93		P	03:33:03.941	-0.2	76.2		6.35		TAS		18.8	1.15	m_e	mb	5.2
WLF	69.88		P	03:33:17.175		76.2		6.35		TAS		59.7	0.92	m_e	mb	5.7
WTTA	67.03		P	03:32:58.342	0.5	76.2		6.35		TAS		19.4	1.13	m_e	mb	5.2

Event 90210002 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/10	05:34:28.81			28.4940	128.6670				33.0			29		83.62	84.41	m i ke	BGR
OrigID 90210008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90210008
Ms	4.7		BGR	90210008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	84.41		P	05:46:57.048		58.8		4.78		TAS		8.1	0.88	m_e	mb	5.0
GRA1	84.41		L	06:29:11.069						T__		567.7	18.60	a_e	Ms	5.0
MOX	83.62		L	06:27:29.612						T__		188.5	20.90	a_e	Ms	4.5

Event 90210003 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/10	10:54:42.99	6.81	0.45	27.2910	56.9230	134.5	68.9	140	10.0				22 350	39.57	44.57	m i ke	BGR
OrigID 90210009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90210009
Ms	4.8		BGR	90210009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	42.91		P	11:02:41.656	0.5	112.5		9.02		TAS		251.4	3.49	m_e	mb	5.4
BRG	40.06		P	11:02:17.536	-0.4	112.5		9.02		TAS		13.8	0.98	m_e	mb	4.5
BSEG	43.17		P	11:02:45.305	-0.3	112.5		9.02		TAS		30.3	1.30	m_e	mb	4.9
BUG	44.25		P	11:02:53.431	-0.0	112.5		9.02		TAS		73.2	1.42	m_e	mb	5.2
CLL	40.76		P	11:02:23.905	-0.2	112.5		9.02		TAS		23.7	0.92	m_e	mb	4.9
CLZ	42.49		P	11:02:38.942	0.0	112.5		9.02		TAS		39.8	0.93	m_e	mb	5.1
FLT1	42.13		P	11:02:35.400	-0.7	112.5		9.02		TAS		44.3	1.00	m_e	mb	5.2
FUR	40.95		P	11:02:24.521	0.1	112.5		9.02		TAS		38.8	1.08	m_e	mb	5.1
GEC2	39.57		P	11:02:12.903	0.0	112.5		9.02		TAS		12.4	1.08	m_e	mb	4.5
GOR1	42.30		P	11:02:38.095	0.2	112.5		9.02		TAS		46.8	1.25	m_e	mb	5.1
GRA1	41.37		P	11:02:28.778	0.2	112.5		9.02		TAS		25.3	0.82	m_e	mb	5.0
GRA1	41.37		L	11:24:42.963						T__		1310.1	19.20	a_e	Ms	4.8
GTTG	42.65		P	11:02:40.248	0.1	112.5		9.02		TAS		22.7	1.24	m_e	mb	4.8
IBBN	44.17		P	11:02:53.984	0.8	112.5		9.02		TAS		70.3	1.26	m_e	mb	5.2
KAST	43.49		P	11:02:47.406	0.3	112.5		9.02		TAS		35.1	1.26	m_e	mb	5.0
MANZ	40.90		P	11:02:24.774	0.1	112.5		9.02		TAS		3.5	1.15	m_e	mb	4.0
MOX	41.39		P	11:02:29.875		112.5		9.02		TAS		17.1	1.14	m_e	mb	4.7
MOX	41.39		L	11:20:38.008						T__		1357.0	21.00	a_e	Ms	4.8

./bul1902.txt Tue Jan 26 09:14:24 2021 25

NRDL	42.84	P	11:02:42.022	-0.1	112.5	9.02	TAS	63.5	1.06	m_e	mb	5.3
RETH	43.35	P	11:02:47.156	0.7	112.5	9.02	TAS	81.8	1.18	m_e	mb	5.3
RJOB	39.85	P	11:02:15.457	0.6	112.5	9.02	TAS	12.5	0.65	m_e	mb	4.7
ROTZ	40.78	P	11:02:23.157	-0.4	112.5	9.02	TAS	4.4	1.08	m_e	mb	4.1
TNS	43.24	P	11:02:44.448	-0.1	112.5	9.02	TAS	43.6	1.43	m_e	mb	5.0
UBR	41.61	P	11:02:29.548	-0.4	112.5	9.02	TAS	42.8	0.74	m_e	mb	5.3
WLF	44.57	P	11:02:54.344	-1.2	112.5	9.02	TAS	15.5	0.89	m_e	mb	4.9

Event 90210004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/10	13:27:10.20			-15.1700	-173.6500				10.0	4.4		14		143.86	147.09	m i ke	EMSC
90210036																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	146.89		PKPbc	13:46:53.364		8.3		2.91		TAS				m_e	
BFO	146.89		pPKPbc	13:47:08.024						T__				m_e	
BRG	143.86		PKPbc	13:46:43.492		8.3		2.91		TAS				m_e	
FUR	146.85		PKPbc	13:46:53.587		8.3		2.91		TAS				m_e	
GEC2	145.88		PKPbc	13:46:50.238		8.3		2.91		TAS				m_e	
GEC2	145.88		pPKPbc	13:47:04.504						T__				m_e	
GRA1	145.34		PKPbc	13:46:50.196		8.3		2.91		TAS				m_e	
GRA1	145.34		pPKPbc	13:47:02.692						T__				m_e	
MANZ	144.96		PKPbc	13:46:48.212		8.3		2.91		TAS				m_e	
MOX	144.36		PKPbc	13:46:46.074		8.3		2.91		TAS				m_e	
PLN	144.46		PKPbc	13:46:46.052		8.3		2.91		TAS				m_e	
RJOB	147.09		PKPbc	13:46:53.775		8.3		2.91		TAS				m_e	
ROTZ	145.17		PKPbc	13:46:48.179		8.3		2.91		TAS				m_e	
STU	146.41		PKPbc	13:46:51.734		8.3		2.91		TAS				m_e	
TANN	144.50		PKPbc	13:46:46.815		8.3		2.91		TAS				m_e	
TNS	145.00		PKPbc	13:46:48.612		8.3		2.91		TAS				m_e	
WLF	145.60		PKPbc	13:46:50.272		8.3		2.91		TAS				m_e	

Event 90210005 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/10	14:33:36.72			8.9540	124.6870				33.0					97.31	97.93	m i ke	BGR
90210011																	

Magnitude Err Nsta Author OrigID
mb 5.4 BGR 90210011

Ms 4.8 BGR 90210011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	97.93		P	14:47:08.876		67.7		4.07		TAS		7.6	0.89	m_e	mb 5.4
GRA1	97.93		L	15:35:13.316						T__		248.2	21.30	a_e	Ms 4.7
MOX	97.31		L	15:36:23.920						T__		363.4	19.20	a_e	Ms 4.9

Event 90211003 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/11	17:28:21.02			51.8650	155.2080				33.0			24		70.56	76.43	m i ke	BGR
OrigID 90211009																	

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 90211009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	76.25		P	17:40:03.925	-0.1	22.2		5.85		TAS		18.8	1.03	m_e	mb 5.2
BRG	72.51		P	17:39:42.253	-0.1	22.2		5.85		TAS		11.2	1.23	m_e	mb 4.9
BSEG	70.56		P	17:39:30.988	-0.1	22.2		5.85		TAS		12.9	0.94	m_e	mb 5.0
BUG	73.56		P	17:39:48.485	-0.4	22.2		5.85		TAS		16.7	0.70	m_e	mb 5.2
CLL	72.35		P	17:39:41.230	0.6	22.2		5.85		TAS		16.6	1.00	m_e	mb 5.1
CLZ	72.50		P	17:39:42.904	-0.2	22.2		5.85		TAS		29.6	1.11	m_e	mb 5.3
FLT1	71.84		P	17:39:38.160	0.5	22.2		5.85		TAS		15.0	0.97	m_e	mb 5.1
FUR	75.69		P	17:40:01.320		22.2		5.85		TAS		27.4	0.89	m_e	mb 5.4
GEC2	74.43		P	17:39:53.692	-0.5	22.2		5.85		TAS		13.9	1.38	m_e	mb 4.8
GRA1	74.29		P	17:39:53.397	-0.3	22.2		5.85		TAS		24.2	0.94	m_e	mb 5.2
GTTG	72.86		P	17:39:44.375	-0.1	22.2		5.85		TAS		10.2	0.76	m_e	mb 5.0
IBBN	72.65		P	17:39:43.183	-0.5	22.2		5.85		TAS		27.1	0.89	m_e	mb 5.4
KAST	73.54		P	17:39:49.049	-0.3	22.2		5.85		TAS		10.2	0.78	m_e	mb 4.9
MANZ	73.79		P	17:39:50.182	0.4	22.2		5.85		TAS		2.9	1.15	m_e	mb 4.2
MOX	73.31		P	17:39:47.089	0.2	22.2		5.85		TAS		8.8	0.84	m_e	mb 4.8
NRDL	71.95		P	17:39:39.276	0.1	22.2		5.85		TAS		17.4	1.27	m_e	mb 5.0
PLN	73.32		P	17:39:47.462	0.3	22.2		5.85		TAS		4.5	1.21	m_e	mb 4.4
RETH	71.89		P	17:39:38.917	0.1	22.2		5.85		TAS		77.3	1.10	m_e	mb 5.8
ROTZ	73.97		P	17:39:51.461	0.5	22.2		5.85		TAS		2.4	0.95	m_e	mb 4.2
STU	75.63		P	17:40:00.543	0.2	22.2		5.85		TAS		33.8	0.67	m_e	mb 5.6
TANN	73.31		P	17:39:47.555	0.1	22.2		5.85		TAS		12.1	1.30	m_e	mb 4.8
TNS	74.45		P	17:39:53.972	0.1	22.2		5.85		TAS		25.2	1.14	m_e	mb 5.1
UBBA	73.53		P	17:39:48.392	-0.1	22.2		5.85		TAS		80.2	2.44	m_e	mb 5.3
UBR	76.43		P	17:40:05.385		22.2		5.85		TAS		21.1	1.18	m_e	mb 5.2

Event 90212001 Bay of Bengal

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/12	01:32:22.57			13.6350	86.7380				33.0			19		68.69	73.66	m i ke	BGR
OrigID 90212007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90212007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	68.69		P	01:43:22.441	-0.2	92.2		6.11		TAS		4.6	0.87	m_e	mb	4.7
BUG	72.91		P	01:43:48.302		92.2		6.11		TAS		6.2	0.87	m_e	mb	4.8
CLL	69.31		P	01:43:26.259	-0.2	92.2		6.11		TAS		17.4	1.44	m_e	mb	5.1
CLZ	70.98		P	01:43:36.178	-0.2	92.2		6.11		TAS		7.3	0.84	m_e	mb	4.8
GEC2	68.70		P	01:43:22.461	-0.2	92.2		6.11		TAS		14.5	1.20	m_e	mb	5.1
GOR1	70.46		P	01:43:33.719	0.1	92.2		6.11		TAS		45.7	1.28	m_e	mb	5.5
GRA1	70.36		P	01:43:33.198	-0.5	92.2		6.11		TAS		268.5	4.44	m_e	mb	5.7
KAST	72.19		P	01:43:43.801		92.2		6.11		TAS		15.7	1.39	m_e	mb	5.0
MANZ	69.80		P	01:43:29.828	-0.0	92.2		6.11		TAS		5.8	1.21	m_e	mb	4.6
MOX	70.15		P	01:43:31.515	0.4	92.2		6.11		TAS		3.3	0.63	m_e	mb	4.6
NRDL	71.17		P	01:43:37.851		92.2		6.11		TAS		20.0	1.30	m_e	mb	5.1
PLN	69.80		P	01:43:29.358	0.4	92.2		6.11		TAS		4.1	1.34	m_e	mb	4.4
RETH	71.63		P	01:43:40.155		92.2		6.11		TAS		123.9	1.47	m_e	mb	5.8
ROTZ	69.73		P	01:43:29.280	-0.0	92.2		6.11		TAS		3.8	1.31	m_e	mb	4.4
RUE	68.93		P	01:43:23.883	-0.1	92.2		6.11		TAS		16.6	0.93	m_e	mb	5.2
TANN	69.60		P	01:43:28.501	0.3	92.2		6.11		TAS		7.2	1.17	m_e	mb	4.7
TNS	72.17		P	01:43:44.052		92.2		6.11		TAS		26.1	1.50	m_e	mb	5.1
UBR	71.06		P	01:43:36.490	-0.1	92.2		6.11		TAS		11.6	0.82	m_e	mb	5.0
WLF	73.66		P	01:43:53.279		92.2		6.11		TAS		22.0	1.37	m_e	mb	5.0

Event 90212008 Mariana Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/12	12:34:15.50			18.8130	145.8110				130.0			6		97.72	103.13	m i ke	NEIC
OrigID 90212047																	

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	103.13		PP	12:52:13.618	-0.0	43.3		7.68		TAS				m_e	
BRG	98.78		PP	12:51:40.465	-0.6	43.3		7.68		TAS				m_e	
BSEG	98.10		PP	12:51:35.721	0.5	43.3		7.68		TAS				m_e	
BUG	101.21		PP	12:51:58.937	-0.2	43.3		7.68		TAS				m_e	
CLL	98.89		Pdiff	12:47:37.281		46.5		4.61		TAS				m_e	
CLL	98.89		PP	12:51:40.970	-0.3	43.3		7.68		TAS				m_e	
CLZ	99.63		PP	12:51:46.745	-0.2	43.3		7.68		TAS				m_e	
FLT1	98.91		PP	12:51:40.904	-0.5	43.3		7.68		TAS				m_e	

FUR	101.93	PP	12:52:04.674	0.6	43.3	7.68	TAS	m_e
GEC2	100.31	Pdiff	12:47:43.440		46.5	4.61	TAS	m_e
GEC2	100.31	PP	12:51:52.477	-0.3	43.3	7.68	TAS	m_e
GOR1	98.40	PP	12:51:37.538	0.0	43.3	7.68	TAS	m_e
GRA1	100.84	PP	12:51:55.707	0.2	43.3	7.68	TAS	m_e
GTTG	100.02	PP	12:51:51.064	1.1	43.3	7.68	TAS	m_e
IBBN	100.35	PP	12:51:51.770	-0.7	43.3	7.68	TAS	m_e
KAST	100.92	PP	12:51:57.524	0.6	43.3	7.68	TAS	m_e
MANZ	100.23	PP	12:51:51.568	0.3	43.3	7.68	TAS	m_e
MOX	99.98	PP	12:51:49.348	0.1	43.3	7.68	TAS	m_e
NEUB	99.51	Pdiff	12:47:40.104		46.5	4.61	TAS	m_e
NRDL	99.26	PP	12:51:44.805	0.7	43.3	7.68	TAS	m_e
PLN	99.85	PP	12:51:48.742	-0.5	43.3	7.68	TAS	m_e
RETH	99.38	PP	12:51:44.503	-0.6	43.3	7.68	TAS	m_e
ROTZ	100.35	PP	12:51:52.780	0.5	43.3	7.68	TAS	m_e
RUE	97.72	PP	12:51:32.868	0.6	43.3	7.68	TAS	m_e
TANN	99.77	Pdiff	12:47:41.815		46.5	4.61	TAS	m_e
TANN	99.77	PP	12:51:47.531	-0.2	43.3	7.68	TAS	m_e
TNS	101.65	Pdiff	12:47:50.197		46.5	4.61	TAS	m_e
TNS	101.65	PP	12:52:02.262	-0.1	43.3	7.68	TAS	m_e
UBBA	100.55	Pdiff	12:47:46.006		46.5	4.61	TAS	m_e
UBBA	100.55	PP	12:51:53.456	-0.3	43.3	7.68	TAS	m_e
UBR	102.82	PP	12:52:12.108		43.3	7.68	TAS	m_e
WLF	103.03	PP	12:52:13.591	-0.6	43.3	7.68	TAS	m_e

Event 90212004 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/12	17:14:31.00	2.35	1.01	40.5710	33.0490	56.7	37.8	153	10.0				26 342	15.29	20.95	m i ke	NEIC
90212043																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90212010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	19.22		P	17:18:56.953	0.5	113.2		11.52		TAS		73.8	1.15	m_e	mb 4.8
BRG	16.81		P	17:18:29.241	0.5	113.2		11.52		TAS		7.7	1.22	m_e	mb 3.7
BSEG	20.30		P	17:19:07.410		113.2		11.52		TAS		32.9	1.08	a_e	mb 4.5
BUG	20.84		P	17:19:14.824		113.2		11.52		TAS		62.5	0.95	m_e	mb 4.9
CLL	17.54		P	17:18:37.228	0.6	113.2		11.52		TAS		33.0	1.47	m_e	mb 4.2
CLZ	19.24		P	17:18:57.110	-0.4	113.2		11.52		TAS		47.0	1.48	a_e	mb 4.5
DAVA	17.95		P	17:18:43.012	-0.9	113.2		11.52		TAS		28.1	0.81	m_e	mb 4.4
FLT1	19.00		P	17:18:52.843	1.0	113.2		11.52		TAS		18.5	0.78	m_e	mb 4.4
FUR	17.28		P	17:18:35.610	1.4	113.2		11.52		TAS		36.9	1.03	a_e	mb 4.5
GEC2	16.02		P	17:18:17.392	-3.0	113.2		11.52		TAS		12.1	0.90	m_e	mb 4.0
GOR1	19.30		P	17:18:57.610	-0.8	113.2		11.52		TAS		250.6	2.02	a_e	mb 5.1

GRA1	17.84	P	17:18:41.892	-0.8	113.2	11.52	TAS	17.7	1.09	m_e	mb	4.1
GTTG	19.33	P	17:18:57.860	0.6	113.2	11.52	TAS	20.3	1.02	a_e	mb	4.3
IBBN	20.89	P	17:19:14.981		113.2	11.52	TAS	64.7	1.01	m_e	mb	4.9
KAST	20.08	P	17:19:06.374	-1.2	113.2	11.52	TAS	103.7	1.47	m_e	mb	4.8
KBA	15.62	P	17:18:17.591	1.9	113.2	11.52	TAS	28.4	1.04	m_e	mb	4.3
MOA	15.29	P	17:18:13.971	2.9	113.2	11.52	TAS	21.4	1.28	m_e		
MOX	18.00	P	17:18:42.390	0.5	113.2	11.52	TAS	24.5	1.14	m_e		
NEUB	18.16	P	17:18:44.629	-0.6	113.2	11.52	TAS	25.4	1.00	m_e		
NRDL	19.68	P	17:19:01.960	0.9	113.2	11.52	TAS	34.5	0.99	a_e		
PLN	17.62	P	17:18:37.702	0.4	113.2	11.52	TAS	8.0	1.17	m_e		
RETH	20.20	P	17:19:08.054	-0.4	113.2	11.52	TAS	220.4	1.50	m_e		
RUE	17.75	P	17:18:38.351	1.6	113.2	11.52	TAS	26.3	0.60	m_e		
STU	18.79	P	17:18:52.112	-0.0	113.2	11.52	TAS	57.9	0.91	m_e		
TANN	17.42	P	17:18:36.461	0.1	113.2	11.52	TAS	20.5	1.02	m_e		
TNS	19.71	P	17:19:02.514	-1.1	113.2	11.52	TAS	9.4	0.89	m_e		
UBBA	19.01	P	17:18:54.860	0.2	113.2	11.52	TAS	101.1	1.85	a_e		
UBR	17.90	P	17:18:41.913	-0.1	113.2	11.52	TAS	81.8	1.60	m_e		
WLF	20.95	P	17:19:16.360		113.2	11.52	TAS	59.0	0.92	m_e		
WTTA	16.79	P	17:18:30.815	0.7	113.2	11.52	TAS	46.8	1.10	m_e		

Event 90213001 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
2019/02/13	06:34:32.60			54.5690	160.4410				97.0					72.95	72.95	m i ke	BGR
OrigID 90213007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90213007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	72.95		P	06:45:49.351		19.0		5.25		TAS		8.4	1.20	m_e	mb	4.7
GRA1	72.95		pP	06:46:14.133						T__				m_e		

Event 90213002 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/02/13	09:25:47.40			48.1000	149.4000				33.0					33	72.61	78.67	m i ke	BGR
OrigID 90213008																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90213008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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ARSA	76.90	P	09:37:36.867	0.2	27.3	5.71	TAS	7.0	0.98	m_e	mb	4.8
BFO	78.19	P	09:37:43.563		27.3	5.71	TAS	17.9	1.28	m_e	mb	5.0
BRG	74.25	P	09:37:21.639	0.0	27.3	5.71	TAS	29.2	1.35	m_e	mb	5.1
BSEG	72.61	P	09:37:12.325	0.1	27.3	5.71	TAS	20.5	1.20	m_e	mb	5.1
BUG	75.67	P	09:37:30.058	0.0	27.3	5.71	TAS	14.9	0.73	m_e	mb	5.2
CLL	74.16	P	09:37:20.524	0.3	27.3	5.71	TAS	15.9	0.77	m_e	mb	5.1
CLZ	74.46	P	09:37:23.062	0.3	27.3	5.71	TAS	60.1	1.41	m_e	mb	5.4
DAVA	78.67	P	09:37:46.310		27.3	5.71	TAS	10.5	0.80	m_e	mb	4.9
FLT1	73.77	P	09:37:18.421	0.2	27.3	5.71	TAS	15.4	0.96	m_e	mb	5.0
GEC2	76.10	P	09:37:31.791	-0.3	27.3	5.71	TAS	19.7	1.38	m_e	mb	5.0
GOR1	73.17	P	09:37:15.635	0.2	27.3	5.71	TAS	61.7	1.24	m_e	mb	5.6
GRA1	76.12	P	09:37:32.534	0.2	27.3	5.71	TAS	21.9	0.85	m_e	mb	5.3
GTTG	74.83	P	09:37:25.288	-0.2	27.3	5.71	TAS	22.1	1.14	m_e	mb	5.1
IBBN	74.75	P	09:37:24.385	-0.2	27.3	5.71	TAS	11.0	0.68	m_e	mb	5.0
KAST	75.57	P	09:37:29.005	-0.4	27.3	5.71	TAS	31.0	1.37	m_e	mb	5.2
KBA	77.77	P	09:37:41.879	-0.7	27.3	5.71	TAS	272.9	2.72	m_e	mb	5.9
MANZ	75.59	P	09:37:29.005	0.5	27.3	5.71	TAS	3.0	1.14	m_e	mb	4.3
MOA	76.79	P	09:37:35.816	1.1	27.3	5.71	TAS	10.2	1.27	m_e	mb	4.8
MOX	75.16	P	09:37:26.653	-0.1	27.3	5.71	TAS	10.9	0.87	m_e	mb	4.9
NEUB	74.63	P	09:37:23.857	-0.2	27.3	5.71	TAS	51.9	1.34	m_e	mb	5.4
NRDL	73.95	P	09:37:20.029	-0.6	27.3	5.71	TAS	25.2	1.37	m_e	mb	5.1
OBKA	77.87	P	09:37:43.993	-0.6	27.3	5.71	TAS	6.3	1.06	m_e	mb	4.7
PLN	75.14	P	09:37:26.467	-0.3	27.3	5.71	TAS	9.8	1.39	m_e	mb	4.7
RETH	73.94	P	09:37:19.967	-0.0	27.3	5.71	TAS	58.5	0.97	m_e	mb	5.6
ROTZ	75.76	P	09:37:30.120	0.2	27.3	5.71	TAS	6.5	1.30	m_e	mb	4.6
RUE	72.90	P	09:37:14.104	0.2	27.3	5.71	TAS	67.3	1.41	m_e	mb	5.6
STU	77.54	P	09:37:40.391	-0.3	27.3	5.71	TAS	36.4	0.72	m_e	mb	5.6
TANN	75.11	P	09:37:26.347	-0.4	27.3	5.71	TAS	29.4	1.80	m_e	mb	5.0
TNS	76.45	P	09:37:34.157	-0.0	27.3	5.71	TAS	8.5	0.71	m_e	mb	5.0
UBBA	75.47	P	09:37:28.201	-0.1	27.3	5.71	TAS	42.1	1.67	m_e	mb	5.2
UBR	78.25	P	09:37:43.803		27.3	5.71	TAS	17.1	1.40	m_e	mb	5.0
WLF	77.58	P	09:37:41.591	-0.6	27.3	5.71	TAS	34.2	1.41	m_e	mb	5.3
WTTA	78.15	P	09:37:43.618		27.3	5.71	TAS	21.5	0.59	m_e	mb	5.5

Event 90213003 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/13	10:03:03.19			46.4100	149.4200				41.9	1.0		33		74.16	80.19	m i ke	BGR
90213009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	90213009
Ms	4.8		BGR	90213009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	78.37	P		10:14:59.528	0.6	28.1		5.60		TAS		35.2	1.32	m_e	mb	5.3

BFO	79.72	P	10:15:06.532		28.1	5.60	TAS	39.7	1.17	a_e	mb	5.2
BRG	75.76	P	10:14:44.732	-0.1	28.1	5.60	TAS	37.3	1.11	a_e	mb	5.4
BSEG	74.16	P	10:14:35.632	-0.1	28.1	5.60	TAS	36.2	0.97	a_e	mb	5.4
BUG	77.23	P	10:14:52.682	0.4	28.1	5.60	TAS	59.8	1.06	a_e	mb	5.7
CLL	75.68	P	10:14:43.982	-0.2	28.1	5.60	TAS	73.6	0.95	m_e	mb	5.8
CLL	75.68	sP	10:15:00.662				T__				m_e	
CLZ	76.00	P	10:14:46.532	0.2	28.1	5.60	TAS	87.2	1.13	a_e	mb	5.8
DAVA	80.19	P	10:15:09.035		28.1	5.60	TAS	65.2	1.43	m_e	mb	5.4
FLT1	75.31	P	10:14:41.682	-0.1	28.1	5.60	TAS	50.1	0.97	a_e	mb	5.5
FUR	78.98	P	10:15:03.140	0.2	28.1	5.60	TAS	72.3	1.12	m_e	mb	5.6
GEC2	77.60	P	10:14:55.232	-0.5	28.1	5.60	TAS	32.7	1.09	a_e	mb	5.4
GOR1	74.71	P	10:14:39.232	-0.0	28.1	5.60	TAS	65.9	1.16	a_e	mb	5.5
GRA1	77.64	P	10:14:55.782	0.2	28.1	5.60	TAS	74.4	1.04	a_e	mb	5.8
GRA1	77.64	L	10:53:02.998				T__	479.1	19.50	a_e	Ms	4.8
GTTG	76.38	P	10:14:48.432	0.1	28.1	5.60	TAS	62.2	1.09	a_e	mb	5.7
IBBN	76.31	P	10:14:47.632	0.2	28.1	5.60	TAS	45.0	0.92	a_e	mb	5.6
KAST	77.12	P	10:14:52.482	0.1	28.1	5.60	TAS	48.0	1.07	a_e	mb	5.5
KAST	77.12	sP	10:15:09.862				T__				m_e	
KBA	79.26	P	10:15:04.562	-0.5	28.1	5.60	TAS	76.6	1.36	m_e	mb	5.5
MANZ	77.11	P	10:14:52.432	0.4	28.1	5.60	TAS	7.2	1.04	a_e	mb	4.7
MOA	78.28	P	10:14:58.399	-0.2	28.1	5.60	TAS	21.0	1.13	m_e	mb	5.2
MOX	76.68	P	10:14:50.032	0.1	28.1	5.60	TAS	38.9	1.10	a_e	mb	5.5
MOX	76.68	L	10:52:53.505				T__	399.4	19.40	a_e	Ms	4.7
NEUB	76.15	P	10:14:46.782	0.1	28.1	5.60	TAS	69.7	1.09	a_e	mb	5.7
NRDL	75.49	P	10:14:43.132	-0.1	28.1	5.60	TAS	35.3	1.02	a_e	mb	5.3
OBKA	79.34	P	10:15:04.669	-0.9	28.1	5.60	TAS	77.0	1.94	m_e	mb	5.4
PLN	76.65	P	10:14:49.982	0.1	28.1	5.60	TAS	15.5	1.20	a_e	mb	5.0
ROTZ	77.27	P	10:14:53.682	-0.0	28.1	5.60	TAS	12.3	1.11	a_e	mb	4.9
RUE	74.42	P	10:14:37.182	0.3	28.1	5.60	TAS	102.0	1.07	a_e	mb	5.8
STU	79.07	P	10:15:03.182	-0.1	28.1	5.60	TAS	52.9	0.80	a_e	mb	5.6
TANN	76.62	P	10:14:49.732	0.0	28.1	5.60	TAS	26.0	1.24	a_e	mb	5.2
TNS	77.99	P	10:14:57.232	0.3	28.1	5.60	TAS	43.2	1.04	a_e	mb	5.5
TNS	77.99	sP	10:15:14.230				T__				m_e	
UBBA	77.01	P	10:14:51.832	-0.2	28.1	5.60	TAS	48.8	1.51	a_e	mb	5.4
UBR	79.77	P	10:15:06.397		28.1	5.60	TAS	25.8	1.25	m_e	mb	5.0
WLF	79.14	P	10:15:04.232	0.2	28.1	5.60	TAS	39.2	1.18	m_e	mb	5.3
WTTA	79.65	P	10:15:06.810		28.1	5.60	TAS	59.1	1.21	m_e	mb	5.4
WTTA	79.65	sP	10:15:23.658				T__				m_e	

Event 90213005 South of Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/13	10:53:52.13			-24.4850	-173.5330				33.0			13		150.45	156.67	m i ke	BGR
	90213011																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	156.16		PKPab	11:14:08.350		7.9		3.98		TAS				m_e	
BRG	153.03		PKPbc	11:13:45.986		10.1		2.17		TAS				m_e	
BSEG	150.45		PKPbc	11:13:40.869	-0.6	10.1		2.17		TAS				m_e	
BUG	153.08		PKPab	11:13:56.426		7.9		3.98		TAS				m_e	
CLL	152.75		PKPbc	11:13:45.000	0.0	10.1		2.17		TAS				m_e	
CLZ	152.52		PKPbc	11:13:44.868	0.2	10.1		2.17		TAS				m_e	
FLT1	151.96		PKPbc	11:13:43.259	0.1	10.1		2.17		TAS				m_e	
GRA1	154.56		PKPab	11:14:02.865		7.9		3.98		TAS				m_e	
IBBN	152.20		PKPbc	11:13:44.020	0.0	10.1		2.17		TAS				m_e	
KAST	153.28		PKPbc	11:13:46.989		10.1		2.17		TAS				m_e	
MANZ	154.17		PKPbc	11:13:48.230		10.1		2.17		TAS				m_e	
MOX	153.58		PKPbc	11:13:47.046		10.1		2.17		TAS				m_e	
NRDL	151.90		PKPbc	11:13:43.395	-0.3	10.1		2.17		TAS				m_e	
PLN	153.67		PKPbc	11:13:47.487		10.1		2.17		TAS				m_e	
RETH	151.70		PKPbc	11:13:42.511	0.1	10.1		2.17		TAS				m_e	
RJOB	156.26		PKPab	11:14:10.115		7.9		3.98		TAS				m_e	
ROTZ	154.37		PKPab	11:14:01.606		7.9		3.98		TAS				m_e	
TANN	153.70		PKPbc	11:13:47.316		10.1		2.17		TAS				m_e	
TNS	154.26		PKPab	11:14:01.671		7.9		3.98		TAS				m_e	
UBR	156.67		PKPab	11:14:10.684		7.9		3.98		TAS				m_e	
WLF	154.87		PKPab	11:14:04.627		7.9		3.98		TAS				m_e	

Event 90213007 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/13	11:44:10.40			46.7500	150.0700				33.0			35		72.64	80.08	m i ke	BGR
90213013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90213013
Ms	4.7		BGR	90213013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	78.29		P	11:56:07.559	-0.3	27.6		5.61		TAS		42.3	1.63	m_e mb	5.3
BFO	79.61		P	11:56:14.070		27.6		5.61		TAS		19.2	0.91	a_e mb	5.0
BRG	75.66		P	11:55:52.220	-0.1	27.6		5.61		TAS		34.4	1.25	a_e mb	5.3
BSEG	74.03		P	11:55:43.170	-0.2	27.6		5.61		TAS		29.3	0.92	a_e mb	5.3
BUG	77.09		P	11:56:00.220	0.4	27.6		5.61		TAS		63.8	1.27	a_e mb	5.6
CLL	75.57		P	11:55:51.520	-0.3	27.6		5.61		TAS		70.5	1.01	m_e mb	5.7
CLZ	75.87		P	11:55:54.070	0.2	27.6		5.61		TAS		74.8	1.17	a_e mb	5.7
DAVA	80.08		P	11:56:16.809		27.6		5.61		TAS		11.7	0.84	m_e mb	4.8
FLT1	75.19		P	11:55:49.220	-0.0	27.6		5.61		TAS		44.4	0.97	a_e mb	5.5
FUR	78.87		P	11:56:10.470	0.1	27.6		5.61		TAS		72.2	1.22	a_e mb	5.6
GEC2	77.51		P	11:56:02.770	-0.0	27.6		5.61		TAS		24.1	1.10	a_e mb	5.2

GOR1	74.59	P	11:55:46.770	0.1	27.6	5.61	TAS	86.6	1.29	a_e	mb	5.6
GRA1	77.53	P	11:56:03.370	0.5	27.6	5.61	TAS	77.7	1.11	a_e	mb	5.7
GRA1	77.53	L	12:33:40.633				T__	404.4	18.40	a_e	Ms	4.8
GTTG	76.25	P	11:55:55.970	0.0	27.6	5.61	TAS	36.6	0.98	a_e	mb	5.5
IBBN	76.18	P	11:55:55.120	0.1	27.6	5.61	TAS	41.7	0.85	a_e	mb	5.6
KAST	76.99	P	11:56:00.020	-0.0	27.6	5.61	TAS	41.5	1.07	a_e	mb	5.5
KBA	79.17	P	11:56:12.196	-0.5	27.6	5.61	TAS	81.5	1.49	m_e	mb	5.5
MANZ	77.01	P	11:55:59.970	0.3	27.6	5.61	TAS	6.2	1.06	a_e	mb	4.7
MOA	78.20	P	11:56:06.566	-0.0	27.6	5.61	TAS	12.6	1.00	m_e	mb	5.0
MOX	76.57	P	11:55:57.570	0.1	27.6	5.61	TAS	35.9	1.18	a_e	mb	5.4
MOX	76.57	L	12:26:39.977				T__	279.8	20.00	a_e	Ms	4.6
NEUB	76.04	P	11:55:54.320	-0.1	27.6	5.61	TAS	52.9	0.94	a_e	mb	5.7
NRDL	75.37	P	11:55:50.720	-0.2	27.6	5.61	TAS	29.6	1.00	a_e	mb	5.3
OBKA	79.27	P	11:56:12.462	-0.4	27.6	5.61	TAS	12.3	1.04	m_e	mb	4.9
PLN	76.55	P	11:55:57.520	-0.0	27.6	5.61	TAS	8.2	1.03	a_e	mb	4.8
RGN	72.64	P	11:55:43.308	1.9	27.6	5.61	TAS	174.4	1.06	m_e	mb	6.1
RJOB	78.77	P	11:56:10.270	0.8	27.6	5.61	TAS	14.7	1.03	a_e	mb	5.0
ROTZ	77.17	P	11:56:01.220	-0.0	27.6	5.61	TAS	6.5	0.94	a_e	mb	4.7
RUE	74.31	P	11:55:44.720	0.4	27.6	5.61	TAS	50.0	0.83	a_e	mb	5.6
STU	78.96	P	11:56:10.670	-0.1	27.6	5.61	TAS	139.3	1.37	a_e	mb	5.8
TANN	76.52	P	11:55:57.220	0.0	27.6	5.61	TAS	85.6	1.92	a_e	mb	5.5
TNS	77.87	P	11:56:04.770	0.4	27.6	5.61	TAS	51.1	1.23	a_e	mb	5.5
UBBA	76.89	P	11:55:59.370	-0.1	27.6	5.61	TAS	20.9	1.17	a_e	mb	5.2
UBR	79.66	P	11:56:14.478		27.6	5.61	TAS	10.2	1.08	m_e	mb	4.7
WLF	79.00	P	11:56:11.870	0.2	27.6	5.61	TAS	21.5	1.05	a_e	mb	5.1
WTTA	79.56	P	11:56:14.528	-0.5	27.6	5.61	TAS	26.5	0.65	m_e	mb	5.3

Event 90214005 Central Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/14	14:33:25.64			-11.2950	-72.9960				24.6	1.3		33		91.60	97.19	m i ke	NEIC
	90214044																

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90214011
Ms	5.0		BGR	90214011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	97.19		P	14:46:55.832		258.3		4.55		TAS		34.4	1.44	m_e	mb 5.8
BERGE	92.44		P	14:46:33.938		258.3		4.55		TAS				m_e	
BFO	92.65		P	14:46:35.066	-0.4	258.3		4.55		TAS		46.6	1.82	m_e	mb 5.6
BRG	96.74		P	14:46:54.027		258.3		4.55		TAS		31.7	1.36	m_e	mb 5.8
BSEG	95.13		P	14:46:46.450	-0.2	258.3		4.55		TAS		41.9	1.42	m_e	mb 5.7
BUG	92.75		P	14:46:35.731	-0.2	258.3		4.55		TAS		98.4	1.60	m_e	mb 6.0
CLL	96.23		P	14:46:52.255	0.0	258.3		4.55		TAS		56.0	1.66	m_e	mb 5.8
CLZ	94.72		P	14:46:45.145	0.7	258.3		4.55		TAS		47.8	1.41	m_e	mb 5.7

DAVA	93.42	P	14:46:39.312	0.3	258.3	4.55	TAS	84.7	1.45	m_e	mb	6.0
ECH	91.86	P	14:46:31.174		258.3	4.55	TAS			m_e		
FLT1	95.35	P	14:46:47.514	0.3	258.3	4.55	TAS	49.2	1.69	m_e	mb	5.7
FUR	94.53	P	14:46:44.607	0.2	258.3	4.55	TAS	57.3	1.17	m_e	mb	5.9
GEC2	96.24	P	14:46:51.322	-0.3	258.3	4.55	TAS	31.8	1.23	m_e	mb	5.7
GOR1	95.52	P	14:46:48.807	-0.4	258.3	4.55	TAS	39.9	1.37	m_e	mb	5.8
GRA1	94.81	P	14:46:45.967	-0.4	258.3	4.55	TAS	57.8	1.45	m_e	mb	5.8
GRA1	94.81	L	15:29:09.295				T__	483.2	21.20	a_e	Ms	4.9
GTTG	94.41	P	14:46:43.813	0.6	258.3	4.55	TAS	58.7	1.56	m_e	mb	5.7
IBBN	93.26	P	14:46:37.815	-0.4	258.3	4.55	TAS	82.4	1.60	m_e	mb	5.9
KAST	93.39	P	14:46:38.698	-0.1	258.3	4.55	TAS	27.7	1.53	m_e	mb	5.5
KBA	95.70	P	14:46:48.917	0.5	258.3	4.55	TAS	40.5	1.31	m_e	mb	5.8
MANZ	95.43	P	14:46:48.450	-0.1	258.3	4.55	TAS	14.5	1.48	m_e	mb	5.2
METMA	92.45	P	14:46:33.938		258.3	4.55	TAS			m_e		
MILB	93.61	P	14:46:39.168		258.3	4.55	TAS			m_e		
MOA	96.45	P	14:46:52.460	-0.3	258.3	4.55	TAS	77.9	1.30	m_e	mb	6.1
MOX	95.24	P	14:46:47.303	0.4	258.3	4.55	TAS	65.5	2.08	m_e	mb	5.7
MOX	95.24	L	15:29:42.726				T__	556.3	20.00	a_e	Ms	5.0
NEUB	95.45	P	14:46:48.533	0.3	258.3	4.55	TAS	30.7	1.17	m_e	mb	5.6
NRDL	94.70	P	14:46:45.209	0.2	258.3	4.55	TAS	30.8	1.40	m_e	mb	5.5
OBKA	96.41	P	14:46:52.596	-0.0	258.3	4.55	TAS	126.9	2.16	m_e	mb	6.1
OBKA	96.41	pP	14:46:59.436				T__			m_e		
PLN	95.55	P	14:46:48.657	-0.5	258.3	4.55	TAS	13.8	1.44	m_e	mb	5.3
ROTZ	95.45	P	14:46:48.079	-0.0	258.3	4.55	TAS	10.0	1.23	m_e	mb	5.1
STU	93.31	P	14:46:38.320	-0.1	258.3	4.55	TAS	68.9	0.95	m_e	mb	6.1
TANN	95.73	P	14:46:48.956	-0.5	258.3	4.55	TAS	42.0	1.34	m_e	mb	5.8
TNS	93.18	P	14:46:37.590	-0.3	258.3	4.55	TAS	38.4	1.33	m_e	mb	5.7
TNS	93.18	pP	14:46:45.209				T__			m_e		
UBBA	94.28	P	14:46:42.755	-0.2	258.3	4.55	TAS	64.1	1.79	m_e	mb	5.7
UBR	93.66	P	14:46:40.214	0.2	258.3	4.55	TAS	88.8	1.30	m_e	mb	5.9
WLF	91.60	P	14:46:30.726	0.1	258.3	4.55	TAS	105.2	1.27	m_e	mb	6.0
WTTA	94.59	P	14:46:44.434	0.4	258.3	4.55	TAS	133.4	1.36	m_e	mb	6.2

Event 90214006 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/14	20:43:19.89			34.1700	-37.0000				10.0			21		36.14	40.50	m i ke	BGR
	90214012																

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90214012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	36.36		P	20:50:25.715	-0.1	263.7		8.46		TAS		38.1	1.71	m_e	mb	5.0
BRG	40.22		P	20:50:58.347		263.7		8.46		TAS		8.7	1.09	m_e	mb	4.3
BSEG	38.44		P	20:50:43.066	-0.4	263.7		8.46		TAS		43.7	1.02	m_e	mb	5.1

BUG	36.14	P	20:50:24.030	-0.1	263.7	8.46	TAS	69.8	1.75	m_e	mb	5.2
CLL	39.67	P	20:50:53.815		263.7	8.46	TAS	11.0	1.23	m_e	mb	4.3
CLZ	38.11	P	20:50:40.887	0.1	263.7	8.46	TAS	18.2	1.18	m_e	mb	4.7
FLT1	38.71	P	20:50:45.586	1.0	263.7	8.46	TAS	12.6	0.81	m_e	mb	4.6
GOR1	38.86	P	20:50:47.609		263.7	8.46	TAS	89.4	1.77	m_e	mb	5.1
IBBN	36.60	P	20:50:27.879	0.1	263.7	8.46	TAS	139.8	2.11	m_e	mb	5.3
KAST	36.80	P	20:50:29.817	0.8	263.7	8.46	TAS	25.1	1.80	m_e	mb	4.6
KBA	39.67	P	20:50:53.944		263.7	8.46	TAS	21.1	1.44	m_e	mb	4.6
MANZ	38.98	P	20:50:48.566		263.7	8.46	TAS	9.3	2.00	m_e	mb	4.1
MOX	38.73	P	20:50:46.201		263.7	8.46	TAS	38.2	1.74	m_e	mb	4.7
NEUB	38.89	P	20:50:47.477		263.7	8.46	TAS	8.4	1.15	m_e	mb	4.3
NRDL	38.05	P	20:50:40.591	-0.2	263.7	8.46	TAS	18.8	1.18	m_e	mb	4.7
OBKA	40.50	P	20:51:00.733		263.7	8.46	TAS	11.6	0.77	m_e	mb	4.7
PLN	39.06	P	20:50:48.701		263.7	8.46	TAS	2.7	0.96	m_e	mb	3.8
RETH	37.65	P	20:50:37.532	-0.3	263.7	8.46	TAS	60.4	1.17	m_e	mb	5.2
ROTZ	39.03	P	20:50:48.630		263.7	8.46	TAS	8.2	2.04	m_e	mb	4.0
TANN	39.24	P	20:50:50.325		263.7	8.46	TAS	10.5	1.13	m_e	mb	4.4
TNS	36.67	P	20:50:28.958	-0.1	263.7	8.46	TAS	27.2	1.63	m_e	mb	4.7
UBBA	37.73	P	20:50:37.592	-0.1	263.7	8.46	TAS	57.0	1.89	m_e	mb	5.0

Event 90215002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/15	03:47:28.40			-18.1900	-178.1000				580.0					147.69	147.69	m i ke	EMSC
OrigID 90215034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.69		PKP	04:06:08.729		16.7		2.18		TAS				m_e	

Event 90216001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/16	02:53:22.40			45.4100	151.4100				40.0					79.15	79.15	m i ke	EMSC
OrigID 90216033																	

Magnitude Err Nsta Author OrigID

mb	4.8		BGR	90216007
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	79.15		P	03:05:22.706		27.3		4.80		TAS		9.7	1.04	m_e	mb	4.8

Event 90216003 Azores Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/16	06:45:54.30			41.2000	-29.3800				2.0					29.42	29.42	m i ke	EMSC
OrigID 90216035																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90216009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	29.42		P	06:51:57.790		268.9		8.42		TAS		23.0	1.19	m_e mb	4.9

Event 90217001 New Ireland, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/17	14:35:54.40			-1.9400	150.4600				33.0				32	117.01	123.57	m i ke	BGR
OrigID 90217007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.8		BGR	90217007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	119.80		PKPdf	14:53:35.154		49.2		1.95		TAS				a_e	
BFO	123.47		PKPdf	14:54:14.044	-0.4	49.2		1.95		TAS				m_e	
BFO	123.47		PPP	14:58:18.566	-1.2	45.1		7.30		TAS				m_e	
BFO	123.47		SS	15:12:44.035		48.3		12.63		TAS				m_e	
BRG	119.04		PKPdf	14:54:05.960	0.1	49.2		1.95		TAS				m_e	
BRG	119.04		PPP	14:57:46.445	0.4	45.1		7.30		TAS				m_e	
BRG	119.04		SS	15:11:53.999	2.0	48.3		12.63		TAS				m_e	
BSEG	118.73		PKPdf	14:54:05.391	0.1	49.2		1.95		TAS				m_e	
BSEG	118.73		PPP	14:57:42.215	0.2	45.1		7.30		TAS				m_e	
BSEG	118.73		SS	15:11:41.771	0.7	48.3		12.63		TAS				m_e	
BUG	121.81		PKPdf	14:54:10.932	-0.3	49.2		1.95		TAS				m_e	
BUG	121.81		PPP	14:58:04.281	-1.5	45.1		7.30		TAS				m_e	
BUG	121.81		SS	15:12:19.466		48.3		12.63		TAS				m_e	
CLL	119.23		PKPdf	14:54:06.089	-0.1	49.2		1.95		TAS				m_e	
CLL	119.23		PPP	14:57:47.548	0.5	45.1		7.30		TAS				m_e	
CLL	119.23		SS	15:11:50.070	-3.3	48.3		12.63		TAS				m_e	
CLZ	120.13		PKPdf	14:54:08.298	0.3	49.2		1.95		TAS				m_e	
CLZ	120.13		PPP	14:57:53.623	1.6	45.1		7.30		TAS				m_e	
FLT1	119.41		PKPdf	14:54:06.367	-0.2	49.2		1.95		TAS				m_e	
FLT1	119.41		PPP	14:57:48.423	0.9	45.1		7.30		TAS				m_e	
FLT1	119.41		SS	15:11:46.819	-2.0	48.3		12.63		TAS				m_e	

FUR	122.10	PKPdf	14:54:11.871	0.0	49.2	1.95	TAS	m_e		
FUR	122.10	PPP	14:58:07.406	-0.7	45.1	7.30	TAS	m_e		
FUR	122.10	SS	15:12:21.907		48.3	12.63	TAS	m_e		
GEC2	120.41	PKPdf	14:54:08.754	0.2	49.2	1.95	TAS	a_e		
GEC2	120.41	PPP	14:57:57.051	0.2	45.1	7.30	TAS	m_e		
GEC2	120.41	SS	15:12:04.320	-4.6	48.3	12.63	TAS	m_e		
GOR1	118.94	PKPdf	14:54:05.760	0.1	49.2	1.95	TAS	m_e		
GOR1	118.94	PPP	14:57:42.483	-1.4	45.1	7.30	TAS	m_e		
GOR1	118.94	SS	15:11:44.800	8.1	48.3	12.63	TAS	m_e		
GRA1	121.14	PKPdf	14:54:10.154	0.2	49.2	1.95	TAS	a_e		
GRA1	121.14	PPP	14:58:01.755	-0.3	45.1	7.30	TAS	m_e		
GRA1	121.14	SS	15:12:11.837	2.4	48.3	12.63	TAS	m_e		
GRA1	121.14	L	15:44:34.410				T__		2088.5	21.00 a_e Ms 5.8
GTTG	120.52	PKPdf	14:54:08.980	0.2	49.2	1.95	TAS	m_e		
GTTG	120.52	PPP	14:57:55.804	2.0	45.1	7.30	TAS	m_e		
GTTG	120.52	SS	15:12:04.769	-1.0	48.3	12.63	TAS	m_e		
HLG	119.59	PKPdf	14:54:06.975	-0.1	49.2	1.95	TAS	m_e		
HLG	119.59	PPP	14:57:49.098	1.2	45.1	7.30	TAS	m_e		
HLG	119.59	SS	15:11:50.746	2.1	48.3	12.63	TAS	m_e		
IBBN	120.98	PKPdf	14:54:09.553	-0.1	49.2	1.95	TAS	m_e		
IBBN	120.98	PPP	14:57:58.164	0.9	45.1	7.30	TAS	m_e		
IBBN	120.98	SS	15:12:08.471	-0.5	48.3	12.63	TAS	m_e		
KAST	121.46	PKPdf	14:54:10.545	-0.0	49.2	1.95	TAS	m_e		
KAST	121.46	PPP	14:58:02.067	-1.6	45.1	7.30	TAS	m_e		
KAST	121.46	SS	15:12:16.100	2.9	48.3	12.63	TAS	m_e		
MANZ	120.52	PKPdf	14:54:08.869	0.1	49.2	1.95	TAS	m_e		
MANZ	120.52	PPP	14:57:58.723	2.1	45.1	7.30	TAS	m_e		
MANZ	120.52	SS	15:12:04.320	-3.0	48.3	12.63	TAS	m_e		
MOX	120.33	PKPdf	14:54:08.298	-0.1	49.2	1.95	TAS	m_e		
MOX	120.33	PPP	14:57:54.308	0.1	45.1	7.30	TAS	m_e		
MOX	120.33	SS	15:12:04.124	0.1	48.3	12.63	TAS	m_e		
MOX	120.33	L	15:46:12.634				T__		1982.7	20.30 a_e Ms 5.8
NEUB	119.90	PKPdf	14:54:07.433	-0.1	49.2	1.95	TAS	m_e		
NEUB	119.90	PPP	14:57:52.272	1.0	45.1	7.30	TAS	m_e		
NRDL	119.81	PKPdf	14:54:07.472	0.1	49.2	1.95	TAS	m_e		
NRDL	119.81	PPP	14:57:48.837	0.6	45.1	7.30	TAS	m_e		
PLN	120.17	PKPdf	14:54:07.930	-0.1	49.2	1.95	TAS	m_e		
PLN	120.17	PPP	14:57:55.563	-0.7	45.1	7.30	TAS	m_e		
RETH	119.98	PKPdf	14:54:07.656	-0.1	49.2	1.95	TAS	m_e		
RETH	119.98	PPP	14:57:52.238	0.3	45.1	7.30	TAS	m_e		
RGN	117.01	PKPdf	14:54:02.022	0.1	49.2	1.95	TAS	m_e		
RGN	117.01	PPP	14:57:28.173	-1.5	45.1	7.30	TAS	m_e		
RJOB	121.57	PKPdf	14:54:10.654	-0.2	49.2	1.95	TAS	a_e		
RJOB	121.57	PPP	14:58:04.156	-0.3	45.1	7.30	TAS	m_e		
RJOB	121.57	SS	15:12:14.081		48.3	12.63	TAS	m_e		
ROTZ	120.61	PKPdf	14:54:08.777	-0.1	49.2	1.95	TAS	m_e		
ROTZ	120.61	PPP	14:57:59.541	-0.3	45.1	7.30	TAS	m_e		
ROTZ	120.61	SS	15:12:05.532	2.4	48.3	12.63	TAS	m_e		
RUE	118.12	PKPdf	14:54:04.102	0.0	49.2	1.95	TAS	m_e		

RUE	118.12	PPP	14:57:36.263	-2.3	45.1	7.30	TAS	m_e
RUE	118.12	SS	15:11:30.664	0.1	48.3	12.63	TAS	m_e
STU	122.75	PKPdf	14:54:13.354	0.3	49.2	1.95	TAS	m_e
STU	122.75	PPP	14:58:13.474	-1.3	45.1	7.30	TAS	m_e
STU	122.75	SS	15:12:32.143		48.3	12.63	TAS	m_e
TANN	120.07	PKPdf	14:54:07.912	0.1	49.2	1.95	TAS	m_e
TANN	120.07	PPP	14:57:53.590	0.8	45.1	7.30	TAS	m_e
TNS	122.12	PKPdf	14:54:11.815	-0.1	49.2	1.95	TAS	m_e
TNS	122.12	PPP	14:58:06.801	0.7	45.1	7.30	TAS	m_e
TNS	122.12	SS	15:12:26.798		48.3	12.63	TAS	m_e
UBBA	120.99	PKPdf	14:54:09.311	-0.3	49.2	1.95	TAS	m_e
UBBA	120.99	PPP	14:58:00.218	0.6	45.1	7.30	TAS	m_e
UBBA	120.99	SS	15:12:09.481	-1.4	48.3	12.63	TAS	m_e
UBR	123.01	PKPdf	14:54:13.654	0.0	49.2	1.95	TAS	a_e
UBR	123.01	PPP	14:58:14.084	0.6	45.1	7.30	TAS	m_e
UBR	123.01	SS	15:12:34.948		48.3	12.63	TAS	m_e
WLF	123.57	PKPdf	14:54:15.296	0.6	49.2	1.95	TAS	m_e
WLF	123.57	PPP	14:58:16.574		45.1	7.30	TAS	m_e
WLF	123.57	SS	15:12:45.606		48.3	12.63	TAS	m_e

Event 90217002 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/17	19:21:25.00			36.4000	142.0500				31.0					83.87	83.87	m i ke	EMSC
OrigID 90217034																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90217008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	83.87		P	19:33:51.780		37.9		4.52		TAS		17.1	1.11	m_e mb	5.2

Event 90217003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/17	19:22:27.40			-20.3400	-177.7000				540.0					149.86	149.86	m i ke	EMSC
OrigID 90217035																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	149.86		PKPab	19:41:25.563		16.8		3.81		TAS				m_e	

Event 90217004 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/17	20:36:56.80			20.6700	122.1900				174.0					87.18	87.18	m i ke	EMSC
OrigID 90217036																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90217010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	87.18		P	20:49:23.004		61.1		4.37		TAS		5.3	0.71	m_e mb	4.8

Event 90220002 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/20	18:23:29.49			39.3950	26.6310				33.0					32	11.27	18.29	m i ke BGR
OrigID 90220008																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	11.27		P	18:26:06.870		127.5		13.73		TAS				m_e	
ASSE	16.86		P	18:27:24.880	3.4	127.5		13.73		TAS				m_e	
BALST	15.87		P	18:27:09.299		127.5		13.73		TAS				m_e	
BFO	15.91		P	18:27:11.926	-1.2	127.5		13.73		TAS				m_e	
BRG	14.53		P	18:26:59.734	5.2	127.5		13.73		TAS				m_e	
BSEG	18.29		P	18:27:41.465	-2.2	127.5		13.73		TAS				m_e	
CLL	15.25		P	18:27:02.641	-3.5	127.5		13.73		TAS				m_e	
CLZ	16.81		P	18:27:24.685	7.4	127.5		13.73		TAS				m_e	
FLT1	16.75		P	18:27:20.206	-1.8	127.5		13.73		TAS				m_e	
GEC2	13.23		P	18:26:34.000	-2.4	127.5		13.73		TAS				m_e	
GOR1	17.19		P	18:27:28.353	-3.9	127.5		13.73		TAS				m_e	
GRA1	15.03		P	18:27:04.662	1.4	127.5		13.73		TAS				m_e	
KAST	17.37		P	18:27:31.225	0.2	127.5		13.73		TAS				m_e	
KBA	12.35		P	18:26:22.183		127.5		13.73		TAS				m_e	
MANZ	14.76		P	18:26:53.990	-2.6	127.5		13.73		TAS				m_e	
MOA	12.30		P	18:26:20.906	-1.0	127.5		13.73		TAS				m_e	
MOX	15.43		P	18:27:11.006	3.7	127.5		13.73		TAS				m_e	
NEUB	15.73		P	18:27:13.183	-3.2	127.5		13.73		TAS				m_e	
NRDL	17.37		P	18:27:27.979	-0.1	127.5		13.73		TAS				m_e	
OBKA	11.35		P	18:26:08.696		127.5		13.73		TAS				m_e	
PLN	15.07		P	18:27:05.688	-3.0	127.5		13.73		TAS				m_e	
PLONS	14.70		P	18:26:55.075		127.5		13.73		TAS				m_e	

RETH	17.87	P	18:27:36.695	-2.7	127.5	13.73	TAS	m_e
RJOB	13.03	P	18:26:31.203		127.5	13.73	TAS	m_e
ROTZ	14.57	P	18:26:59.805	-1.9	127.5	13.73	TAS	m_e
TANN	14.88	P	18:26:54.948	-2.2	127.5	13.73	TAS	m_e
TNS	16.80	P	18:27:25.199	1.1	127.5	13.73	TAS	m_e
UBR	14.55	P	18:26:50.961		127.5	13.73	TAS	m_e
WET	13.84	P	18:26:41.552	1.5	127.5	13.73	TAS	m_e
WILA	15.15	P	18:27:00.622		127.5	13.73	TAS	m_e
WLF	17.79	P	18:27:34.413	-1.4	127.5	13.73	TAS	m_e
WTTA	13.44	P	18:26:38.131		127.5	13.73	TAS	m_e

Event 90221001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/21	12:22:45.12			43.4720	142.1080				35.8	3.8		30		74.56	79.95	m i ke	BGR
90221007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	90221007
MBB	5.9		BGR	90221007
Ms	5.4		BGR	90221007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	75.95		P	12:34:26.830	0.3	34.2		5.59		TAS					m_e
ASSE	75.95		pP	12:34:37.112						T__					m_e
BFO	79.95		P	12:34:48.857	-0.3	34.2		5.59		TAS		43.6	1.02	m_e	mb 5.3
BRG	75.80		P	12:34:25.644	-0.1	34.2		5.59		TAS		17.5	0.85	m_e	MBB 5.6
BSEG	74.57		P	12:34:19.299	0.1	34.2		5.59		TAS		57.8	0.69	m_e	MBB 5.9
BSEG	74.57		pP	12:34:30.670						T__					m_e
BUG	77.68		P	12:34:36.486	0.2	34.2		5.59		TAS		56.3	0.85	m_e	mb 5.7
BUG	77.68		pP	12:34:46.285						T__					m_e
CLL	75.79		P	12:34:25.742	-0.1	34.2		5.59		TAS		50.1	0.80	m_e	MBB 5.9
CLZ	76.29		P	12:34:29.158	0.0	34.2		5.59		TAS		70.9	0.70	m_e	MBB 6.0
CLZ	76.29		pP	12:34:39.030						T__					m_e
FLT1	75.59		P	12:34:24.346	0.4	34.2		5.59		TAS		72.6	0.66	m_e	MBB 6.1
FUR	79.02		P	12:34:44.561		34.2		5.59		TAS		231.5	1.65	m_e	mb 6.0
GEC2	77.53		P	12:34:35.693	0.5	34.2		5.59		TAS		19.4	1.04	m_e	MBB 5.7
GOR1	75.02		P	12:34:21.921	-0.1	34.2		5.59		TAS		185.8	1.47	m_e	MBB 6.0
GOR1	75.02		pP	12:34:32.288						T__					m_e
GRA1	77.77		P	12:34:37.551	-0.1	34.2		5.59		TAS		66.3	1.56	m_e	mb 5.5
GRA1	77.77		L	13:10:46.375						T__		1606.2	20.90	a_e	Ms 5.3
GTTG	76.68		P	12:34:31.290	-0.3	34.2		5.59		TAS		45.7	0.82	m_e	mb 5.6
IBBN	76.78		P	12:34:31.564	-0.0	34.2		5.59		TAS		64.1	0.71	m_e	MBB 6.1
IBBN	76.78		pP	12:34:41.661						T__					m_e
KAST	77.50		P	12:34:35.679	-0.4	34.2		5.59		TAS		32.0	0.83	m_e	MBB 5.9
MANZ	77.20		P	12:34:33.952	0.5	34.2		5.59		TAS		11.0	1.16	m_e	MBB 5.2

MOX	76.84	P	12:34:31.806	-0.2	34.2	5.59	TAS	28.6	1.01	m_e	MBB	5.8
MOX	76.84	L	13:11:52.370				T__	2337.8	18.70	a_e	Ms	5.5
NEUB	76.33	P	12:34:28.967	-0.6	34.2	5.59	TAS	71.0	0.83	m_e	MBB	6.0
NRDL	75.84	P	12:34:26.146	0.1	34.2	5.59	TAS	34.0	0.78	m_e	MBB	5.6
PLN	76.77	P	12:34:31.438	-0.2	34.2	5.59	TAS	8.3	0.84	m_e	mb	4.9
RETH	75.89	P	12:34:26.576	-0.1	34.2	5.59	TAS	263.2	1.03	m_e	MBB	6.6
RJOB	78.79	P	12:34:43.059		34.2	5.59	TAS	33.2	0.97	m_e	MBB	5.6
ROTZ	77.35	P	12:34:34.934	0.2	34.2	5.59	TAS	34.4	1.82	m_e	MBB	5.3
RUE	74.56	P	12:34:19.084	-0.5	34.2	5.59	TAS	73.8	0.68	m_e	MBB	6.3
RUE	74.56	pP	12:34:29.311				T__			m_e		
STU	79.27	P	12:34:45.440	0.3	34.2	5.59	TAS	117.1	0.96	m_e	mb	5.9
TANN	76.72	P	12:34:31.028	0.1	34.2	5.59	TAS	26.1	1.19	m_e	mb	5.2
TNS	78.31	P	12:34:39.894	0.2	34.2	5.59	TAS	37.8	1.10	m_e	mb	5.4
UBBA	77.27	P	12:34:33.704	-0.1	34.2	5.59	TAS	23.8	0.70	m_e	mb	5.4
UBR	79.85	P	12:34:48.427		34.2	5.59	TAS	74.0	1.80	m_e	mb	5.3
WET	77.60	P	12:34:36.299	-0.4	34.2	5.59	TAS	122.6	1.70	m_e	MBB	5.7

Event 90222001 Peru-Ecuador border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/22	10:17:26.91			-2.4600	-75.9900				162.7	1.1		30		86.77	91.85	m i ke	BGR
	90222007																

Magnitude Err Nsta Author OrigID
 mb 6.7 BGR 90222007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	89.87		P	10:30:07.822	0.0	266.0		4.76		TAS		397.0	1.00	a_e	mb 6.6
ASSE	89.87		PP	10:33:42.859						T__				m_e	
BFO	88.04		P	10:29:58.072	-0.7	266.0		4.76		TAS		238.1	0.86	a_e	mb 6.5
BRG	91.85		P	10:30:16.922		266.0		4.76		TAS		422.7	0.89	a_e	mb 6.8
BSEG	89.79		P	10:30:07.213	0.3	266.0		4.76		TAS		376.3	0.95	m_e	mb 6.6
BUG	87.70		P	10:29:57.307	0.1	266.0		4.76		TAS		885.8	0.86	m_e	mb 7.1
BUG	87.70		pP	10:30:37.849						T__				m_e	
CLL	91.27		P	10:30:14.022	0.0	266.0		4.76		TAS		337.3	0.93	a_e	mb 6.7
CLZ	89.66		P	10:30:06.722	-0.0	266.0		4.76		TAS		617.0	0.95	a_e	mb 6.8
FLT1	90.23		P	10:30:08.822	0.0	266.0		4.76		TAS		284.7	0.92	a_e	mb 6.5
FLT1	90.23		pP	10:30:49.696						T__				m_e	
FLT1	90.23		PP	10:33:44.741						T__				m_e	
FUR	89.99		P	10:30:08.022	0.2	266.0		4.76		TAS		489.4	0.87	a_e	mb 6.8
GEC2	91.63		P	10:30:15.619	-0.4	266.0		4.76		TAS		133.4	0.78	m_e	mb 6.3
GEC2	91.63		pP	10:30:56.198						T__				m_e	
GRA1	90.05		P	10:30:08.522	-0.5	266.0		4.76		TAS		498.4	0.90	a_e	mb 6.7
GTTG	89.39		P	10:30:05.322	0.3	266.0		4.76		TAS		374.4	0.89	a_e	mb 6.6
GTTG	89.39		pP	10:30:46.052						T__				m_e	
HLG	88.39		P	10:30:00.622	0.1	266.0		4.76		TAS		997.2	0.93	a_e	mb 7.1

IBBN	88.10	P	10:29:58.972	-0.2	266.0	4.76	TAS	1342.8	0.90	a_e	mb	7.3
KAST	88.39	P	10:30:00.222	-0.3	266.0	4.76	TAS	413.4	0.91	a_e	mb	6.8
MANZ	90.64	P	10:30:11.422	0.3	266.0	4.76	TAS	80.2	0.86	a_e	mb	6.1
MOX	90.36	P	10:30:09.872	-0.1	266.0	4.76	TAS	249.5	1.01	a_e	mb	6.4
NEUB	90.49	P	10:30:10.422	0.3	266.0	4.76	TAS	305.9	0.83	a_e	mb	6.6
NRDL	89.55	P	10:30:06.322	0.2	266.0	4.76	TAS	297.4	0.95	a_e	mb	6.5
NRDL	89.55	pP	10:30:46.891				T__				m_e	
NRDL	89.55	PP	10:33:38.570				T__				m_e	
RGN	91.58	P	10:30:15.822	-0.2	266.0	4.76	TAS				a_e	
RGN	91.58	PP	10:33:55.674				T__				m_e	
RJOB	90.98	P	10:30:12.719	0.0	266.0	4.76	TAS	436.2	0.97	m_e	mb	6.8
ROTZ	90.69	P	10:30:11.672	0.3	266.0	4.76	TAS	81.0	0.87	a_e	mb	6.1
ROTZ	90.69	pP	10:30:52.454				T__				m_e	
RUE	91.79	P	10:30:16.322	-0.0	266.0	4.76	TAS	531.9	0.90	a_e	mb	6.9
STU	88.65	P	10:30:01.555	-0.1	266.0	4.76	TAS	1404.8	0.88	m_e	mb	7.2
TANN	90.89	P	10:30:12.672	-0.0	266.0	4.76	TAS	643.3	1.00	a_e	mb	6.9
TANN	90.89	pP	10:30:53.638				T__				m_e	
TNS	88.31	P	10:30:00.122	0.0	266.0	4.76	TAS	671.9	0.86	a_e	mb	7.0
TNS	88.31	pP	10:30:40.725				T__				m_e	
UBBA	89.35	PP	10:33:38.786				T__				m_e	
UBR	89.17	P	10:30:04.422	0.3	266.0	4.76	TAS	815.6	0.82	m_e	mb	7.0
WET	91.10	P	10:30:13.370	-0.2	266.0	4.76	TAS	345.5	0.94	m_e	mb	6.7
WET	91.10	PP	10:33:53.637				T__				m_e	
WLF	86.77	P	10:29:52.972	0.2	266.0	4.76	TAS	2120.4	0.89	a_e	mb	7.3

Event 90222002 Southern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/22	21:16:05.36			-17.0410	-12.8380				33.0				18	67.63	73.43	m i ke	BGR
90222008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90222008
Ms	4.9		BGR	90222008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	67.76		P	21:27:01.624	-0.3	204.5		6.14		TAS		12.9	0.85	m_e	mb	5.2
BRG	71.59		P	21:27:25.390		204.5		6.14		TAS		8.8	0.98	m_e	mb	4.8
BSEG	73.43		P	21:27:36.357		204.5		6.14		TAS		22.4	0.84	m_e	mb	5.3
FLT1	72.18		P	21:27:29.287		204.5		6.14		TAS		8.8	0.90	m_e	mb	4.9
FUR	68.39		P	21:27:06.060	0.2	204.5		6.14		TAS		17.5	0.88	m_e	mb	5.3
GEC2	69.71		P	21:27:14.018	0.1	204.5		6.14		TAS		45.7	1.51	m_e	mb	5.4
GRA1	69.77		P	21:27:14.392	0.1	204.5		6.14		TAS		34.7	1.26	m_e	mb	5.3
GRA1	69.77		L	21:56:45.773						T__		631.4	20.50	a_e	Ms	4.8
IBBN	71.34		P	21:27:23.382		204.5		6.14		TAS		22.0	1.04	m_e	mb	5.2
MANZ	70.28		P	21:27:17.484	0.1	204.5		6.14		TAS		6.9	1.26	m_e	mb	4.6

MOX	70.74	P	21:27:20.717	0.1	204.5	6.14	TAS	15.1	1.02	m_e	mb	5.1
MOX	70.74	L	21:57:23.834				T__	739.5	19.90	a_e	Ms	4.9
NEUB	71.28	P	21:27:23.237		204.5	6.14	TAS	28.4	0.81	m_e	mb	5.4
NRDL	72.05	P	21:27:28.364		204.5	6.14	TAS	23.7	1.02	m_e	mb	5.3
RJOB	68.45	P	21:27:05.496	0.3	204.5	6.14	TAS	7.2	0.78	m_e	mb	5.0
ROTZ	70.11	P	21:27:16.347	0.5	204.5	6.14	TAS	15.7	1.39	m_e	mb	5.0
TANN	70.76	P	21:27:20.460	-0.3	204.5	6.14	TAS	22.7	1.20	m_e	mb	5.2
UBR	67.63	P	21:27:01.161	0.0	204.5	6.14	TAS	35.4	1.03	m_e	mb	5.5
WET	69.74	P	21:27:13.978	0.0	204.5	6.14	TAS	53.0	1.41	m_e	mb	5.5
WLF	68.51	P	21:27:06.674	0.2	204.5	6.14	TAS	67.0	1.43	m_e	mb	5.7

Event 90224001 South of New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/24	06:00:16.20			-56.4800	165.9000				41.7	1.3		23		161.41	166.62	m i ke	BGR
90224007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	164.93		PKPab	06:21:10.258		124.0		4.45		TAS				m_e	
BFO	164.12		PKPab	06:21:06.798		124.0		4.45		TAS				m_e	
BRG	162.54		PKPab	06:21:00.302		124.0		4.45		TAS				m_e	
BRG	162.54		pPKPab	06:21:12.694						T__				m_e	
BUG	166.47		PKPab	06:21:17.476		124.0		4.45		TAS				m_e	
CLL	163.27		PKPab	06:21:03.468		124.0		4.45		TAS				m_e	
CLL	163.27		pPKPab	06:21:15.606						T__				m_e	
CLZ	164.97		PKPab	06:21:10.856	0.0	124.0		4.45		TAS				m_e	
CLZ	164.97		pPKPab	06:21:23.334						T__				m_e	
FLT1	164.71		PKPab	06:21:09.276	0.2	124.0		4.45		TAS				m_e	
FLT1	164.71		pPKPab	06:21:21.652						T__				m_e	
FUR	162.48		PKPab	06:20:59.891		124.0		4.45		TAS				m_e	
GEC2	161.59		PKPab	06:20:55.509		124.0		4.45		TAS				m_e	
GRA1	163.40		PKPab	06:21:03.595		124.0		4.45		TAS				m_e	
GRA1	163.40		pPKPab	06:21:15.911						T__				m_e	
IBBN	166.62		PKPab	06:21:18.238	0.5	124.0		4.45		TAS				m_e	
KAST	165.73		PKPab	06:21:14.025		124.0		4.45		TAS				m_e	
MANZ	163.09		PKPab	06:21:02.158		124.0		4.45		TAS				m_e	
MOX	163.70		PKPab	06:21:05.374		124.0		4.45		TAS				m_e	
NEUB	163.89		PKPab	06:21:05.961		124.0		4.45		TAS				m_e	
NEUB	163.89		pPKPab	06:21:17.950						T__				m_e	
NRDL	165.41		PKPab	06:21:12.712	0.1	124.0		4.45		TAS				m_e	
RJOB	161.41		PKPab	06:20:54.918		124.0		4.45		TAS				m_e	
STU	163.95		PKPab	06:21:06.148		124.0		4.45		TAS				m_e	
STU	163.95		pPKPab	06:21:18.700						T__				m_e	
TNS	165.19		PKPab	06:21:11.905		124.0		4.45		TAS				m_e	

TNS	165.19	pPKPab	06:21:24.181							T__						m_e
UBBA	164.67	PKPab	06:21:09.283	124.0	4.45					TAS						m_e
UBR	162.79	PKPab	06:21:01.507	124.0	4.45					TAS						m_e
UBR	162.79	pPKPab	06:21:14.068							T__						m_e
WET	162.20	PKPab	06:20:57.520	124.0	4.45					TAS						m_e
WET	162.20	pPKPab	06:21:10.246							T__						m_e
WLF	166.08	PKPab	06:21:15.520	124.0	4.45					TAS						m_e

Event 90225006 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/25	15:05:19.47			1.8600	-32.7930				25.2	3.6		20		58.23	62.78	m i ke	BGR
OrigID 90225012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90225012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	61.80		pP	15:15:43.749						T__					m_e
BFO	58.23		P	15:15:12.949	0.2	232.8		6.82		TAS		7.6	0.98	m_e mb	4.7
BRG	62.68		P	15:15:43.324		232.8		6.82		TAS		5.1	0.84	m_e mb	4.7
BRG	62.68		pP	15:15:50.315						T__					m_e
BSEG	62.78		P	15:15:43.110		232.8		6.82		TAS		14.1	0.80	m_e mb	5.2
BSEG	62.78		pP	15:15:50.050						T__					m_e
BUG	59.74		P	15:15:22.776	-0.2	232.8		6.82		TAS		9.0	0.77	m_e mb	4.9
BUG	59.74		pP	15:15:29.216						T__					m_e
FLT1	62.20		P	15:15:39.543		232.8		6.82		TAS		6.4	0.84	m_e mb	4.9
GEC2	61.40		P	15:15:33.500		232.8		6.82		TAS		10.6	0.96	m_e mb	5.0
GEC2	61.40		pP	15:15:41.509						T__					m_e
GTTG	61.09		P	15:15:32.263	0.4	232.8		6.82		TAS		13.3	0.80	m_e mb	4.8
GTTG	61.09		pP	15:15:39.314						T__					m_e
IBBN	60.54		P	15:15:27.933	0.1	232.8		6.82		TAS		15.7	0.94	m_e mb	4.8
IBBN	60.54		pP	15:15:34.892						T__					m_e
KAST	60.12		P	15:15:25.423	0.1	232.8		6.82		TAS		8.0	1.05	m_e mb	4.7
KAST	60.12		pP	15:15:32.126						T__					m_e
MANZ	61.21		P	15:15:33.079	0.3	232.8		6.82		TAS		2.1	0.88	m_e mb	4.0
MANZ	61.21		pP	15:15:40.066						T__					m_e
MOX	61.35		pP	15:15:40.941						T__					m_e
NEUB	61.76		P	15:15:36.892		232.8		6.82		TAS		6.1	0.81	m_e mb	4.9
NEUB	61.76		pP	15:15:43.845						T__					m_e
NRDL	61.76		P	15:15:36.931		232.8		6.82		TAS		10.0	1.03	m_e mb	5.0
NRDL	61.76		pP	15:15:43.878						T__					m_e
RJOB	60.27		P	15:15:26.465	0.2	232.8		6.82		TAS		3.4	0.76	m_e mb	4.5
ROTZ	61.13		P	15:15:32.399	-0.1	232.8		6.82		TAS		3.1	0.86	m_e mb	4.2
ROTZ	61.13		pP	15:15:39.589						T__					m_e
TANN	61.65		P	15:15:36.284		232.8		6.82		TAS		19.4	0.92	m_e mb	5.3

TANN	61.65	pP	15:15:43.441							T__						m_e	
TNS	59.50	P	15:15:20.728	-0.0	232.8			6.82		TAS	6.9	0.93	m_e	mb		4.7	
TNS	59.50	pP	15:15:28.130							T__						m_e	
UBR	58.77	P	15:15:16.522	-0.6	232.8			6.82		TAS	7.6	0.82	m_e	mb		4.8	
UBR	58.77	pP	15:15:23.211							T__						m_e	
WET	61.12	P	15:15:32.430	0.3	232.8			6.82		TAS	7.0	0.88	m_e	mb		4.5	
WET	61.12	pP	15:15:39.301							T__						m_e	

Event 90225008 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/25	17:13:58.55			45.3160	146.9260				94.0			21		75.54	79.95	m i ke	BGR
OrigID 90225014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90225014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	79.95		P	17:25:53.943		30.2		5.57		TAS		7.0	0.93	m_e	mb	4.7
BRG	75.91		P	17:25:32.417	0.4	30.2		5.57		TAS		3.0	0.89	m_e	mb	4.4
BUG	77.52		P	17:25:41.311		30.2		5.57		TAS		9.4	0.75	m_e	mb	5.0
CLL	75.85		P	17:25:30.999	-0.0	30.2		5.57		TAS		12.2	0.72	m_e	mb	5.1
CLZ	76.24		P	17:25:34.434	0.4	30.2		5.57		TAS		7.5	0.82	m_e	mb	4.9
FLT1	75.54		P	17:25:29.067	-0.0	30.2		5.57		TAS		7.5	0.82	m_e	mb	4.9
GEC2	77.72		P	17:25:41.936		30.2		5.57		TAS		2.0	0.70	m_e	mb	4.4
GRA1	77.83		P	17:25:43.799		30.2		5.57		TAS		13.7	0.82	m_e	mb	5.1
GTTG	76.62		P	17:25:36.296	-0.3	30.2		5.57		TAS		8.0	0.82	m_e	mb	4.9
IBBN	76.61		P	17:25:36.000	0.2	30.2		5.57		TAS		18.3	0.77	m_e	mb	5.3
KAST	77.39		P	17:25:40.810	-0.8	30.2		5.57		TAS		5.8	0.78	m_e	mb	4.8
MANZ	77.28		P	17:25:40.228	-0.6	30.2		5.57		TAS		1.1	1.01	m_e	mb	3.9
MOX	76.88		P	17:25:37.583	0.2	30.2		5.57		TAS		3.4	0.82	m_e	mb	4.5
NEUB	76.35		P	17:25:34.996	0.7	30.2		5.57		TAS		7.0	0.74	m_e	mb	4.9
RJOB	78.98		P	17:25:49.512		30.2		5.57		TAS		3.8	0.81	m_e	mb	4.4
ROTZ	77.44		P	17:25:41.412		30.2		5.57		TAS		1.0	0.91	m_e	mb	4.0
TANN	76.80		P	17:25:37.043	0.1	30.2		5.57		TAS		2.4	0.87	m_e	mb	4.3
TNS	78.24		P	17:25:45.401		30.2		5.57		TAS		5.6	0.74	m_e	mb	4.7
UBBA	77.24		P	17:25:39.355	0.2	30.2		5.57		TAS		2.4	0.75	m_e	mb	4.4
UBR	79.94		P	17:25:54.123		30.2		5.57		TAS		3.3	0.69	m_e	mb	4.5
WET	77.74		P	17:25:42.588		30.2		5.57		TAS		7.5	0.98	m_e	mb	4.8

Event 90226001 Hindu Kush, Afghanistan, region

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

2019/02/26 00:23:46.00 36.0600 70.6500 147.4 17 42.68 47.77 m i ke BGR
90226007

Magnitude Err Nsta Author OrigID
mb 4.3 BGR 90226007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	42.68		P	00:31:27.995	-0.2	85.3		7.94		TAS		5.8	0.87	m_e	mb	4.3
BSEG	44.78		P	00:31:44.747		85.3		7.94		TAS		7.7	0.81	m_e	mb	4.7
CLL	43.25		P	00:31:32.165	0.1	85.3		7.94		TAS		2.9	0.71	m_e	mb	4.1
CLZ	44.86		P	00:31:45.613		85.3		7.94		TAS		5.0	0.79	m_e	mb	4.5
FLT1	44.30		P	00:31:40.211	-0.0	85.3		7.94		TAS		13.2	0.82	m_e	mb	4.7
GEC2	42.95		P	00:31:30.165	-0.5	85.3		7.94		TAS		2.0	0.93	m_e	mb	3.8
GRA1	44.50		P	00:31:42.419		85.3		7.94		TAS		3.4	0.79	m_e	mb	4.1
GTTG	45.13		P	00:31:47.698		85.3		7.94		TAS		10.6	0.84	m_e	mb	4.8
IBBN	46.43		P	00:31:57.379		85.3		7.94		TAS		9.6	0.73	m_e	mb	4.9
MANZ	43.90		P	00:31:38.201	0.7	85.3		7.94		TAS		1.3	1.11	m_e	mb	3.6
MOX	44.16		P	00:31:40.015	0.1	85.3		7.94		TAS		4.2	1.00	m_e	mb	4.1
NEUB	44.03		P	00:31:38.623	0.2	85.3		7.94		TAS		15.2	1.07	m_e	mb	4.7
NRDL	44.98		P	00:31:46.293		85.3		7.94		TAS		4.8	0.85	m_e	mb	4.5
RJOB	43.66		P	00:31:35.538	0.3	85.3		7.94		TAS		2.7	0.81	m_e	mb	4.0
ROTZ	43.85		P	00:31:37.860	-0.6	85.3		7.94		TAS		1.4	1.13	m_e	mb	3.6
RUE	42.73		P	00:31:28.065		85.3		7.94		TAS		13.9	0.92	m_e	mb	4.7
TANN	43.64		P	00:31:35.911	-0.3	85.3		7.94		TAS		2.0	0.89	m_e	mb	3.9
UBR	45.47		P	00:31:49.829		85.3		7.94		TAS		3.9	0.72	m_e	mb	4.4
UBR	45.47		pP	00:32:22.809						T__				m_e		
WLF	47.77		P	00:32:08.491		85.3		7.94		TAS		7.7	0.76	m_e	mb	4.9

Event 90227001 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
OrigID
2019/02/27 00:55:57.74 39.0420 142.6110 44.8 0.7 16 78.69 84.01 m i ke BGR
90227007

Magnitude Err Nsta Author OrigID
mb 4.5 BGR 90227007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	80.03		P	01:08:00.332	0.3	36.1		5.28		TAS		2.3	0.86	m_e	mb	4.1
BFO	84.01		P	01:08:21.124		36.1		5.28		TAS		3.8	0.81	m_e	mb	4.7
BFO	84.01		pP	01:08:34.096						T__				m_e		
BRG	79.80		P	01:07:59.320	0.4	36.1		5.28		TAS		3.6	0.91	m_e	mb	4.3
BSEG	78.69		P	01:07:53.691	-0.1	36.1		5.28		TAS		6.8	0.88	m_e	mb	4.7
CLL	79.82		P	01:07:59.145	0.3	36.1		5.28		TAS		8.1	0.96	m_e	mb	4.6
CLZ	80.37		P	01:08:02.735	0.2	36.1		5.28		TAS		5.4	0.85	m_e	mb	4.5
FLT1	79.66		P	01:07:58.136	-0.1	36.1		5.28		TAS		6.1	0.87	m_e	mb	4.5

GEC2	81.50	P	01:08:08.165		36.1	5.28	TAS	2.4	0.92	m_e	mb	4.2
GRA1	81.80	P	01:08:10.398		36.1	5.28	TAS	6.8	0.87	m_e	mb	4.8
GTTG	80.76	P	01:08:04.738	-0.5	36.1	5.28	TAS	4.7	0.82	m_e	mb	4.6
IBBN	80.92	P	01:08:05.224		36.1	5.28	TAS	4.6	0.69	m_e	mb	4.6
IBBN	80.92	pP	01:08:17.987				T__				m_e	
MOX	80.88	P	01:08:04.958		36.1	5.28	TAS	1.9	0.78	m_e	mb	4.2
NEUB	80.38	P	01:08:02.323	-0.2	36.1	5.28	TAS	6.9	0.78	m_e	mb	4.7
RJOB	82.75	P	01:08:15.184		36.1	5.28	TAS	5.5	0.84	m_e	mb	4.8
RJOB	82.75	pP	01:08:28.353				T__				m_e	
ROTZ	81.36	P	01:08:07.898		36.1	5.28	TAS	0.5	0.76	m_e	mb	3.6
WET	81.59	P	01:08:09.011		36.1	5.28	TAS	2.4	0.92	m_e	mb	4.3

Event 90227003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/02/27	02:00:03.07			-21.5800	-179.1420				603.7	3.7		26		146.90	152.91	m i ke	BGR
	90227009																

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	148.57		PKPbc	02:18:43.097	0.3	20.0		2.39		TAS					m_e
ASSE	148.57		pPKPbc	02:21:01.684						T__					m_e
BFO	152.65		PKPbc	02:18:52.964		20.0		2.39		TAS					m_e
BRG	149.01		PKPbc	02:18:44.367	-0.4	20.0		2.39		TAS					m_e
BSEG	146.90		PKPbc	02:18:38.850	0.4	20.0		2.39		TAS					m_e
BSEG	146.90		pPKPbc	02:20:56.501						T__					m_e
BUG	149.78		PKPbc	02:18:45.952	0.1	20.0		2.39		TAS					m_e
CLL	148.85		PKPbc	02:18:43.790	0.0	20.0		2.39		TAS					m_e
CLL	148.85		pPKPbc	02:21:01.399						T__					m_e
CLZ	148.90		PKPbc	02:18:44.240	0.1	20.0		2.39		TAS					m_e
FLT1	148.27		PKPbc	02:18:42.143	-0.1	20.0		2.39		TAS					m_e
GEC2	150.93		PKPbc	02:18:48.513		20.0		2.39		TAS					m_e
GEC2	150.93		pPKPbc	02:21:06.382						T__					m_e
GOR1	147.63		PKPbc	02:18:41.318	-0.1	20.0		2.39		TAS					m_e
GTTG	149.26		PKPbc	02:18:44.826	-0.1	20.0		2.39		TAS					m_e
IBBN	148.87		PKPbc	02:18:44.054	0.1	20.0		2.39		TAS					m_e
KAST	149.85		PKPbc	02:18:46.303	0.5	20.0		2.39		TAS					m_e
MANZ	150.29		PKPbc	02:18:47.284	-0.5	20.0		2.39		TAS					m_e
MOX	149.78		PKPbc	02:18:45.908	0.6	20.0		2.39		TAS					m_e
NEUB	149.24		PKPbc	02:18:44.828	-0.0	20.0		2.39		TAS					m_e
NRDL	148.32		PKPbc	02:18:42.533	0.0	20.0		2.39		TAS					m_e
PLN	149.81		PKPbc	02:18:46.231	0.1	20.0		2.39		TAS					m_e
RETH	148.21		PKPbc	02:18:42.194	-0.1	20.0		2.39		TAS					m_e
ROTZ	150.47		PKPbc	02:18:47.951	-0.4	20.0		2.39		TAS					m_e
ROTZ	150.47		pPKPbc	02:21:05.615						T__					m_e

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TANN	149.81	PKPbc	02:18:46.662	0.3	20.0	2.39	TAS	m_e
TNS	150.79	PKPbc	02:18:48.371	0.5	20.0	2.39	TAS	m_e
UBBA	149.95	PKPbc	02:18:46.991	-0.2	20.0	2.39	TAS	m_e
UBR	152.91	PKPbc	02:18:53.116		20.0	2.39	TAS	m_e
WET	150.88	PKPbc	02:18:48.213	-0.4	20.0	2.39	TAS	m_e
WLF	151.66	PKPbc	02:18:51.353		20.0	2.39	TAS	m_e