

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

(produced by the Federal Seismological Survey/BGR - HANNOVER)

December 2020

UPDATED 22.March 2022

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

Event 1201003 South of Aleutian Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/01	16:22:40.62			52.8900	-165.4800				33.0				26	72.93	79.29	m i ke	BGR
OrigID 1201009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	1201009
Ms	5.9		BGR	1201009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	75.31		S	16:43:56.870		357.9		8.75		TAS				m_e	
ASSE	75.31		P	16:34:20.640	0.3	359.8		5.71		TAS		35.0	0.90	a_e mb	5.4
BFO	79.02		P	16:34:41.990		359.8		5.71		TAS		54.0	0.98	a_e mb	5.6
BRG	76.61		S	16:44:12.666		357.9		8.75		TAS				m_e	
BRG	76.61		P	16:34:27.740		359.8		5.71		TAS		41.1	0.99	a_e mb	5.4
BSEG	73.49		P	16:34:10.290	0.3	359.8		5.71		TAS		70.7	0.78	a_e mb	5.9
BUG	75.86		S	16:44:04.452		357.9		8.75		TAS				m_e	
BUG	75.86		P	16:34:24.040		359.8		5.71		TAS		50.9	0.80	a_e mb	5.6
CLL	76.17		S	16:44:07.295		357.9		8.75		TAS				m_e	
CLL	76.17		P	16:34:24.990		359.8		5.71		TAS		46.6	0.65	a_e mb	5.7
CLZ	75.58		S	16:44:02.241		357.9		8.75		TAS				m_e	
CLZ	75.58		P	16:34:22.690	-0.3	359.8		5.71		TAS		68.3	0.74	a_e mb	5.8
FLT1	75.12		S	16:43:59.081		357.9		8.75		TAS				m_e	
FLT1	75.12		P	16:34:19.090	0.2	359.8		5.71		TAS		41.5	0.82	a_e mb	5.5
FUR	79.29		P	16:34:43.340		359.8		5.71		TAS		100.3	1.14	a_e mb	5.8
GEC2	78.64		P	16:34:39.390		359.8		5.71		TAS		36.9	0.90	a_e mb	5.5
GOR1	74.46		P	16:34:16.090	0.1	359.8		5.71		TAS		55.2	0.95	a_e mb	5.7
GRA1	77.76		S	16:44:20.539		357.9		8.75		TAS				m_e	
GRA1	77.76		P	16:34:34.990		359.8		5.71		TAS		82.3	0.78	a_e mb	5.9
GRA1	77.76		L	17:15:57.555						T__		7180.0	22.00	a_e Ms	6.0

GTTG	75.87	S	16:44:11.086	357.9	8.75	TAS				m_e							
GTTG	75.87	P	16:34:24.240	359.8	5.71	TAS	99.7	0.92	a_e	mb	5.8						
IBBN	75.02	P	16:34:19.490	-0.0 359.8	5.71	TAS	178.7	1.21	a_e	mb	6.0						
KAST	76.15	S	16:44:07.927	357.9	8.75	TAS					m_e						
KAST	76.15	P	16:34:25.840	359.8	5.71	TAS	35.4	0.79	a_e	mb	5.5						
MOX	76.81	P	16:34:29.290	359.8	5.71	TAS	51.7	0.82	a_e	mb	5.6						
MOX	76.81	L	17:14:34.742			T__	6221.5	21.90	a_e	Ms	5.9						
NEUB	76.26	S	16:44:11.086	357.9	8.75	TAS					m_e						
NEUB	76.26	P	16:34:25.990	359.8	5.71	TAS	67.0	0.60	a_e	mb	5.8						
PLN	76.98	P	16:34:30.090	359.8	5.71	TAS	11.5	0.85	a_e	mb	5.0						
RETH	74.66	P	16:34:17.240	0.1 359.8	5.71	TAS	73.3	1.16	a_e	mb	5.7						
RGN	72.93	P	16:34:06.940	0.1 359.8	5.71	TAS	156.1	0.68	a_e	mb	6.3						
RUE	75.01	S	16:43:57.186	0.7 357.9	8.75	TAS					m_e						
RUE	75.01	P	16:34:18.740	-0.4 359.8	5.71	TAS	77.8	0.69	a_e	mb	5.8						
STU	78.62	S	16:44:29.068	357.9	8.75	TAS					m_e						
STU	78.62	P	16:34:39.540	359.8	5.71	TAS	109.7	0.79	a_e	mb	6.0						
TANN	77.06	P	16:34:30.740	359.8	5.71	TAS	16.9	0.89	a_e	mb	5.2						
TNS	77.14	P	16:34:31.390	359.8	5.71	TAS	37.6	0.85	a_e	mb	5.5						
WET	78.33	P	16:34:38.040	359.8	5.71	TAS	34.1	0.92	m_e	mb	5.5						
WLF	77.58	P	16:34:34.490	359.8	5.71	TAS	58.4	1.00	a_e	mb	5.7						

Event 1201004 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/01	16:35:49.38			53.5700	-151.4600				33.0			24		71.52	77.59	m i ke	BGR
OrigID 1201010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1201010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	73.62	P		16:47:20.112	-0.1	349.6		5.79		TAS		33.3	1.10	a_e	mb	5.3
BFO	77.04	P		16:47:39.712	-0.3	349.6		5.79		TAS		51.0	1.51	a_e	mb	5.4
BRG	75.21	P		16:47:29.412	0.1	349.6		5.79		TAS		117.8	1.79	a_e	mb	5.6
BSEG	71.80	P		16:47:09.412	-0.2	349.6		5.79		TAS		57.1	1.22	a_e	mb	5.6
CLL	74.68	P		16:47:26.012	-0.3	349.6		5.79		TAS		22.6	0.94	a_e	mb	5.2
CLZ	73.86	P		16:47:21.962	0.3	349.6		5.79		TAS		114.2	1.32	a_e	mb	5.7
FLT1	73.48	P		16:47:18.812	-0.6	349.6		5.79		TAS		30.7	1.13	a_e	mb	5.3
FUR	77.59	P		16:47:43.062	-0.1	349.6		5.79		TAS		32.9	0.89	a_e	mb	5.5
GEC2	77.19	P		16:47:40.812	-0.0	349.6		5.79		TAS		28.3	1.14	a_e	mb	5.3
GOR1	72.84	P		16:47:15.862	0.2	349.6		5.79		TAS		129.2	1.61	a_e	mb	5.8
GRA1	76.08	P		16:47:34.612	0.2	349.6		5.79		TAS		31.4	0.98	m_e	mb	5.4
GTTG	74.10	P		16:47:23.262	0.2	349.6		5.79		TAS		154.0	1.48	a_e	mb	5.8
IBBN	73.07	P		16:47:16.962	-0.1	349.6		5.79		TAS		39.1	1.14	a_e	mb	5.4
KAST	74.24	P		16:47:23.762	-0.0	349.6		5.79		TAS		70.0	1.25	a_e	mb	5.5
MOX	75.19	P		16:47:29.212	-0.1	349.6		5.79		TAS		65.7	1.13	a_e	mb	5.6

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NEUB	74.66	P	16:47:26.112	-0.1	349.6	5.79	TAS	98.2	1.15	a_e	mb	5.7
PLN	75.40	P	16:47:30.462	-0.1	349.6	5.79	TAS	13.7	1.14	a_e	mb	4.9
RGN	71.52	P	16:47:08.112	0.2	349.6	5.79	TAS			a_e		
RUE	73.61	P	16:47:20.112	0.1	349.6	5.79	TAS	79.4	1.07	a_e	mb	5.7
STU	76.73	P	16:47:38.012	-0.2	349.6	5.79	TAS	65.1	0.89	a_e	mb	5.8
TANN	75.51	P	16:47:31.312	0.2	349.6	5.79	TAS	127.6	1.93	a_e	mb	5.7
TNS	75.20	P	16:47:29.362	-0.0	349.6	5.79	TAS	33.4	1.03	a_e	mb	5.3
WET	76.81	P	16:47:38.912	0.3	349.6	5.79	TAS	28.2	1.25	a_e	mb	5.2
WLF	75.42	P	16:47:30.912	0.4	349.6	5.79	TAS	37.9	1.02	a_e	mb	5.4

Event 1201006 Balleny Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/01	20:52:57.50			-61.9500	154.7100				10.0					156.47	156.95	m i ke	EMSC
OrigID 1201038																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.9		BGR	1201012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	156.47		PKP	21:13:21.764		135.2		5.28		TAS				m_e		
GRA1	156.47		L	22:28:27.819						T__		2235.8	21.60	a_e	Ms	6.0
MOX	156.95		L	22:31:10.195						T__		1919.9	20.90	a_e	Ms	5.9

Event 1201007 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/01	21:07:37.20			-19.6900	-175.8800				182.0					149.53	149.53	m i ke	EMSC
OrigID 1201039																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	149.53		PKP	21:27:03.414		13.3		1.78		TAS				m_e	

Event 1202003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/02	09:40:22.40			-15.2000	-173.2200				10.0					144.43	145.41	m i ke	EMSC
OrigID 1202035																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	1202009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.41		PKP	10:00:00.788		7.6		3.15		TAS				m_e	
GRA1	145.41		L	11:05:26.248						T__		895.1	19.10	a_e Ms	5.6
MOX	144.43		L	11:05:47.046						T__		497.1	19.00	a_e Ms	5.3

Event 1203001 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/03	01:08:52.33			55.3790	-161.1220				33.0					75.11	75.11	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1203007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	75.11		P	01:20:29.331		351.2		5.17		TAS		13.4	0.90	m_e mb	5.0

Event 1203002 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/03	05:45:29.50			38.6610	41.2620				33.0					24.04	24.04	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1203008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	24.04		P	05:50:41.748		111.4		9.69		TAS		33.2	0.86	m_e mb	4.9

Event 1203004 Lake Baykal, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/03	12:37:09.90			55.9200	110.9700				10.0					55.49	55.49	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
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mb 4.8 BGR 1203010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	55.49		P	12:46:46.202		42.3		5.81		TAS		12.6	1.38	m_e mb	4.8

Event 1203006 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/03	17:07:34.10			-22.8500	170.5000				10.0			25		145.46	150.88	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
Ms 5.2		BGR		1203012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.91		PKPbc	17:27:14.454	0.2	34.0		2.65		TAS				a_e	
BFO	150.88		PKPbc	17:27:23.576		34.0		2.65		TAS				m_e	
BRG	146.61		PKPbc	17:27:13.804	0.1	34.0		2.65		TAS				m_e	
BSEG	145.54		PKPbc	17:27:09.904	-0.3	34.0		2.65		TAS				a_e	
BUG	148.64		PKPbc	17:27:18.604	-0.3	34.0		2.65		TAS				a_e	
CLL	146.67		PKPbc	17:27:13.654	0.2	34.0		2.65		TAS				a_e	
CLZ	147.25		PKPbc	17:27:15.354	0.3	34.0		2.65		TAS				a_e	
FLT1	146.54		PKPbc	17:27:13.004	-0.2	34.0		2.65		TAS				a_e	
FUR	149.79		PKPbc	17:27:22.104	0.3	34.0		2.65		TAS				a_e	
GEC2	148.21		PKPbc	17:27:18.354	0.4	34.0		2.65		TAS				a_e	
GOR1	145.98		PKPbc	17:27:11.454	-0.3	34.0		2.65		TAS				a_e	
GRA1	148.64		PKPbc	17:27:19.625	0.3	34.0		2.65		TAS				m_e	
GRA1	148.64		L	18:34:28.243						T__		428.0	19.90	a_e Ms	5.2
GTTG	147.64		PKPbc	17:27:16.454	0.1	34.0		2.65		TAS				a_e	
IBBN	147.74		PKPbc	17:27:16.254	0.1	34.0		2.65		TAS				a_e	
KAST	148.47		PKPbc	17:27:18.701	-0.2	34.0		2.65		TAS				m_e	
MOX	147.74		PKPbc	17:27:16.754	-0.1	34.0		2.65		TAS				a_e	
MOX	147.74		L	18:33:58.219						T__		393.0	20.20	a_e Ms	5.2
NEUB	147.24		PKPbc	17:27:16.554	0.1	34.0		2.65		TAS				a_e	
PLN	147.64		PKPbc	17:27:16.604	-0.1	34.0		2.65		TAS				a_e	
RETH	146.86		PKPbc	17:27:14.154	1.3	34.0		2.65		TAS				a_e	
RUE	145.46		PKPbc	17:27:09.854	-0.6	34.0		2.65		TAS				a_e	
STU	150.18		PKPbc	17:27:22.954	-1.3	34.0		2.65		TAS				a_e	
TANN	147.57		PKPbc	17:27:16.454	0.2	34.0		2.65		TAS				a_e	
TNS	149.27		PKPbc	17:27:20.754	-0.1	34.0		2.65		TAS				a_e	
WET	148.36		PKPbc	17:27:18.804	0.5	34.0		2.65		TAS				a_e	
WLF	150.53		PKPbc	17:27:24.104		34.0		2.65		TAS				a_e	

Event 1205001 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/05	06:43:21.92			-20.6810	-171.0100				33.0			14		146.79	152.52	m i ke	BGR
OrigID 1205007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	148.59		PKPbc	07:03:06.007	-1.3	4.3		2.47		TAS					m_e
BFO	152.41		PKPbc	07:03:15.170		4.3		2.47		TAS					m_e
BRG	149.62		PKPbc	07:03:08.152	1.1	4.3		2.47		TAS					m_e
BSEG	146.79		PKPbc	07:03:00.644	-1.3	4.3		2.47		TAS					m_e
BUG	149.27		PKPbc	07:03:07.810	-1.3	4.3		2.47		TAS					m_e
CLL	149.27		PKPbc	07:03:06.906	-1.1	4.3		2.47		TAS					m_e
CLZ	148.88		PKPbc	07:03:07.014	-0.7	4.3		2.47		TAS					m_e
FLT1	148.36		PKPbc	07:03:05.160	0.5	4.3		2.47		TAS					m_e
FUR	152.52		PKPbc	07:03:15.550		4.3		2.47		TAS					m_e
GEC2	151.65		PKPbc	07:03:13.350		4.3		2.47		TAS					m_e
GRA1	151.00		PKPbc	07:03:11.282	-1.1	4.3		2.47		TAS					m_e
GTTG	149.19		PKPbc	07:03:07.428	-0.9	4.3		2.47		TAS					m_e
IBBN	148.42		PKPbc	07:03:05.138	-1.3	4.3		2.47		TAS					m_e
KAST	149.54		PKPbc	07:03:07.394	-0.8	4.3		2.47		TAS					m_e
MOX	150.03		PKPbc	07:03:08.247	0.4	4.3		2.47		TAS					m_e
RUE	148.05		PKPbc	07:03:04.231	1.2	4.3		2.47		TAS					m_e
TANN	150.20		PKPbc	07:03:09.006	-0.2	4.3		2.47		TAS					m_e
TNS	150.52		PKPbc	07:03:10.019	0.0	4.3		2.47		TAS					m_e
WET	151.43		PKPbc	07:03:12.620	-1.1	4.3		2.47		TAS					m_e
WLF	150.99		PKPbc	07:03:11.577	-1.1	4.3		2.47		TAS					m_e

Event 1205002 Cyprus region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/05	12:44:35.84			35.7800	32.5200				118.8			25		19.02	24.11	m i ke	BGR
OrigID 1205008																	

Magnitude Err Nsta Author OrigID
mb 5.5 BGR 1205008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	22.54		P	12:49:24.930	-0.5	125.5		10.18		TAS		158.7	1.02	m_e mb	5.5
ASSE	22.54		pP	12:49:47.891						T__					m_e
BFO	21.80		P	12:49:18.055	1.6	125.5		10.18		TAS		249.3	1.02	m_e mb	5.6
BRG	20.17		P	12:49:01.363	0.2	125.5		10.18		TAS		286.1	0.89	m_e mb	5.5
BSEG	23.86		P	12:49:38.095	0.3	125.5		10.18		TAS		120.0	0.96	m_e mb	5.4
BUG	23.90		P	12:49:38.746	-0.7	125.5		10.18		TAS		344.8	1.17	m_e mb	5.8

Station	Mag	Type	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
CLL	20.90	P	12:49:08.839	0.2	125.5			10.18		TAS	172.3	1.04	m_e	mb				5.3	
CLZ	22.52	P	12:49:25.337	-0.0	125.5			10.18		TAS	173.3	0.87	m_e	mb				5.6	
FLT1	22.40	P	12:49:23.224	-0.5	125.5			10.18		TAS	131.5	0.90	m_e	mb				5.4	
FUR	19.99	P	12:48:58.931	0.0	125.5			10.18		TAS	763.7	1.06	m_e	mb				5.9	
GEC2	19.02	P	12:48:49.083	-0.7	125.5			10.18		TAS	523.8	1.19	m_e	mb				5.6	
GOR1	22.79	P	12:49:27.937	0.6	125.5			10.18		TAS	241.0	1.06	m_e	mb				5.7	
GRA1	20.83	P	12:49:07.515	-0.7	125.5			10.18		TAS	173.6	0.92	m_e	mb				5.4	
GTTG	22.55	P	12:49:25.824	0.1	125.5			10.18		TAS	290.2	0.97	m_e	mb				5.8	
IBBN	24.11	P	12:49:41.184	-0.5	125.5			10.18		TAS	397.4	1.30	m_e	mb				5.8	
KAST	23.16	P	12:49:31.594	-0.4	125.5			10.18		TAS	84.4	0.79	m_e	mb				5.3	
MOX	21.17	P	12:49:12.253	0.5	125.5			10.18		TAS	394.0	1.03	m_e	mb				5.7	
NEUB	21.43	P	12:49:14.365	0.1	125.5			10.18		TAS	178.5	1.16	m_e	mb				5.3	
PLN	20.80	P	12:49:08.027	0.0	125.5			10.18		TAS	68.5	1.07	m_e	mb				4.9	
RETH	23.55	P	12:49:35.820	0.1	125.5			10.18		TAS	71.4	0.97	m_e	mb				5.2	
RUE	21.33	P	12:49:12.821	0.9	125.5			10.18		TAS	254.8	0.77	m_e	mb				5.6	
STU	21.49	P	12:49:14.365	0.3	125.5			10.18		TAS	620.5	0.89	m_e	mb				6.0	
TANN	20.61	P	12:49:06.076	0.1	125.5			10.18		TAS	262.9	0.92	m_e	mb				5.6	
TNS	22.63	P	12:49:25.848	-0.5	125.5			10.18		TAS	285.6	1.53	m_e	mb				5.6	
WET	19.63	P	12:48:55.276	-0.8	125.5			10.18		TAS	383.5	0.83	m_e	mb				5.7	
WLF	23.67	P	12:49:36.343	0.3	125.5			10.18		TAS	220.2	1.29	m_e	mb				5.5	

Event 1206002 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/06	04:06:37.92			32.3400	143.3700			50.7		1.4		19		84.97	90.19	m i ke	BGR
OrigID 1206008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1206008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	86.26	P		04:19:16.126	-0.3	38.9		4.80		TAS		8.6	0.99	m_e	mb	4.8
BFO	90.19	P		04:19:35.066	-0.3	38.9		4.80		TAS		6.9	0.81	m_e	mb	4.9
BRG	85.91	P		04:19:14.702	-0.1	38.9		4.80		TAS		13.9	0.86	m_e	mb	5.1
BRG	85.91	pP		04:19:29.750	0.2					T__				m_e		
BSEG	84.97	P		04:19:10.287	0.0	38.9		4.80		TAS		14.0	0.80	m_e	mb	5.2
BUG	88.08	P		04:19:25.141	-0.1	38.9		4.80		TAS		20.5	0.86	m_e	mb	5.5
CLL	85.97	P		04:19:14.987	-0.1	38.9		4.80		TAS		28.8	0.85	m_e	mb	5.4
CLZ	86.60	P		04:19:18.082	0.0	38.9		4.80		TAS		19.7	0.89	m_e	mb	5.2
FLT1	85.88	P		04:19:14.346	-0.3	38.9		4.80		TAS		16.3	0.95	m_e	mb	5.1
FUR	89.11	P		04:19:30.003	-0.2	38.9		4.80		TAS		12.1	0.79	m_e	mb	5.2
GEC2	87.55	P		04:19:22.890	0.2	38.9		4.80		TAS		9.6	0.93	m_e	mb	5.1
GRA1	87.94	P		04:19:24.528	-0.0	38.9		4.80		TAS		24.1	0.91	m_e	mb	5.5
GTTG	86.99	P		04:19:20.327	0.4	38.9		4.80		TAS		27.5	0.94	m_e	mb	5.4
IBBN	87.21	P		04:19:21.126	0.1	38.9		4.80		TAS		23.1	0.86	m_e	mb	5.3
KAST	87.85	P		04:19:24.200	0.1	38.9		4.80		TAS		15.7	0.83	m_e	mb	5.4

./bul2012.txt Wed Mar 30 12:17:24 2022 8

MOX	87.04	P	04:19:20.115	-0.1	38.9	4.80	TAS	7.8	0.97	m_e	mb	4.8
STU	89.49	P	04:19:31.901	-0.1	38.9	4.80	TAS	24.5	0.90	m_e	mb	5.4
TANN	86.88	P	04:19:19.829	0.4	38.9	4.80	TAS	5.2	0.84	m_e	mb	4.7
TANN	86.88	pP	04:19:34.257	0.2			T__				m_e	
TNS	88.62	P	04:19:28.085	0.3	38.9	4.80	TAS	11.0	0.99	m_e	mb	5.0
WET	87.68	P	04:19:23.346	0.1	38.9	4.80	TAS	4.6	0.84	m_e	mb	4.8
WET	87.68	pP	04:19:38.048	0.2			T__				m_e	

Event 1206003 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/06	06:41:34.90			-18.0370	-172.4290				33.0			16		144.11	149.80	m i ke	BGR
	1206009																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.90		PKPbc	07:01:10.547	-0.2	6.6		2.76		TAS				m_e	
BFO	149.78		PKPbc	07:01:21.282	-0.3	6.6		2.76		TAS				m_e	
BRG	146.85		PKPbc	07:01:13.743	0.3	6.6		2.76		TAS				m_e	
BSEG	144.11		PKPbc	07:01:05.643	-0.2	6.6		2.76		TAS				m_e	
BUG	146.67		PKPbc	07:01:13.516	0.4	6.6		2.76		TAS				m_e	
CLL	146.53		PKPbc	07:01:12.460	-0.0	6.6		2.76		TAS				m_e	
CLZ	146.20		PKPbc	07:01:11.850	0.3	6.6		2.76		TAS				m_e	
FLT1	145.66		PKPbc	07:01:09.894	-0.2	6.6		2.76		TAS				m_e	
FUR	149.80		PKPbc	07:01:21.763	0.3	6.6		2.76		TAS				m_e	
GEC2	148.87		PKPbc	07:01:18.876	-0.2	6.6		2.76		TAS				m_e	
KAST	146.90		PKPbc	07:01:13.583	-0.1	6.6		2.76		TAS				m_e	
MOX	147.31		PKPbc	07:01:14.477	-0.1	6.6		2.76		TAS				m_e	
RUE	145.29		PKPbc	07:01:09.197	0.1	6.6		2.76		TAS				m_e	
TANN	147.46		PKPbc	07:01:15.116	0.1	6.6		2.76		TAS				m_e	
TNS	147.88		PKPbc	07:01:15.981	-0.3	6.6		2.76		TAS				m_e	
WLF	148.43		PKPbc	07:01:18.315	0.2	6.6		2.76		TAS				m_e	

Event 1206004 Central Bolivia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/06	16:48:15.08			-14.6310	-64.5270				109.8					92.07	92.07	m i ke	BGR
	1206010																

Magnitude Err Nsta Author OrigID
mb 4.7 BGR 1206010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.07		P	17:01:12.828		245.3		5.42		TAS		3.3	0.84	m_e	mb 4.7
GRA1	92.07		pP	17:01:40.975						T__				m_e	

Event 1207002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/07	05:24:37.27			-21.6720	-178.0440				33.0			11		147.17	152.91	m i ke	BGR
OrigID 1207008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.91		PKPbc	05:44:31.117		18.0		2.46		TAS				m_e	
BRG	149.38		PKPbc	05:44:22.868	-0.1	18.0		2.46		TAS				m_e	
BSEG	147.17		PKPbc	05:44:17.280	-0.2	18.0		2.46		TAS				m_e	
BUG	150.00		PKPbc	05:44:24.851	-0.1	18.0		2.46		TAS				m_e	
CLL	149.19		PKPbc	05:44:22.255	0.1	18.0		2.46		TAS				m_e	
CLZ	149.18		PKPbc	05:44:22.364	0.1	18.0		2.46		TAS				m_e	
FLT1	148.56		PKPbc	05:44:20.664	0.1	18.0		2.46		TAS				m_e	
GEC2	151.31		PKPbc	05:44:27.519		18.0		2.46		TAS				m_e	
GRA1	151.09		PKPbc	05:44:26.882		18.0		2.46		TAS				m_e	
GTTG	149.53		PKPbc	05:44:23.131	0.0	18.0		2.46		TAS				m_e	
IBBN	149.09		PKPbc	05:44:22.261	0.1	18.0		2.46		TAS				m_e	
KAST	150.10		PKPbc	05:44:24.721	-0.1	18.0		2.46		TAS				m_e	
MOX	150.10		PKPbc	05:44:24.631	-0.2	18.0		2.46		TAS				m_e	
RUE	147.92		PKPbc	05:44:19.146	0.1	18.0		2.46		TAS				m_e	
TANN	150.15		PKPbc	05:44:24.365		18.0		2.46		TAS				m_e	
TNS	151.05		PKPbc	05:44:27.140		18.0		2.46		TAS				m_e	
WET	151.24		PKPbc	05:44:27.332		18.0		2.46		TAS				m_e	
WLF	151.87		PKPbc	05:44:29.207		18.0		2.46		TAS				m_e	

Event 1208001 Myanmar

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/08	05:14:31.38			22.6600	94.1200				33.0			21		66.56	71.79	m i ke	BGR
OrigID 1208007																	

Magnitude Err Nsta Author OrigID
mb 5.1 BGR 1208007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	68.49		P	05:25:30.655		80.4		6.24		TAS		6.0	0.84	m_e	mb 4.8

BFO	70.70	P	05:25:44.016		80.4	6.24	TAS	3.7	0.88	m_e	mb	4.5
BRG	66.66	P	05:25:19.176		80.4	6.24	TAS	12.5	0.80	m_e	mb	5.2
BSEG	68.42	P	05:25:30.134	0.5	80.4	6.24	TAS	21.9	0.79	m_e	mb	5.4
BUG	70.70	P	05:25:44.459		80.4	6.24	TAS	9.8	0.78	m_e	mb	5.0
CLL	67.19	P	05:25:22.467	0.3	80.4	6.24	TAS	9.3	0.89	m_e	mb	5.0
CLZ	68.73	P	05:25:31.911		80.4	6.24	TAS	17.4	0.84	m_e	mb	5.3
FLT1	68.12	P	05:25:28.052	-0.4	80.4	6.24	TAS	5.5	0.73	m_e	mb	4.9
GEC2	67.10	P	05:25:21.760		80.4	6.24	TAS	19.9	0.75	m_e	mb	5.4
GRA1	68.56	P	05:25:31.373		80.4	6.24	TAS	8.4	0.77	m_e	mb	5.0
GTTG	69.03	P	05:25:34.104		80.4	6.24	TAS	10.6	0.80	m_e	mb	5.1
IBBN	70.23	P	05:25:41.284		80.4	6.24	TAS	14.4	0.87	m_e	mb	5.1
KAST	70.05	P	05:25:40.264		80.4	6.24	TAS	4.9	0.76	m_e	mb	4.7
MOX	68.15	P	05:25:28.392		80.4	6.24	TAS	10.9	0.90	m_e	mb	5.1
NEUB	67.97	P	05:25:27.700		80.4	6.24	TAS	19.6	0.84	m_e	mb	5.4
RUE	66.56	P	05:25:18.687	0.1	80.4	6.24	TAS	22.4	0.73	m_e	mb	5.5
STU	70.05	P	05:25:40.154		80.4	6.24	TAS	48.3	0.83	m_e	mb	5.7
TANN	67.66	P	05:25:25.788		80.4	6.24	TAS	10.4	0.81	m_e	mb	5.1
TNS	70.22	P	05:25:41.239		80.4	6.24	TAS	12.1	0.81	m_e	mb	5.1
WET	67.59	P	05:25:24.924		80.4	6.24	TAS	10.4	0.87	m_e	mb	5.1
WLF	71.79	P	05:25:51.588		80.4	6.24	TAS	16.9	0.86	m_e	mb	5.2

Event 1209002 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/09	06:47:14.52			54.1900	169.8500				33.0			18		70.92	76.67	m i ke	BGR
OrigID 1209008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1209008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	72.64	P		06:58:39.259	-0.2	12.3		5.82		TAS		43.4	1.27	m_e	mb	5.4
BFO	76.67	P		06:59:02.349		12.3		5.82		TAS		11.2	0.86	m_e	mb	5.0
BRG	73.38	P		06:58:43.778	0.1	12.3		5.82		TAS		43.6	1.13	m_e	mb	5.5
BSEG	70.92	P		06:58:29.285	0.3	12.3		5.82		TAS		38.8	0.99	m_e	mb	5.5
CLL	73.10	P		06:58:41.673	-0.1	12.3		5.82		TAS		54.2	1.23	m_e	mb	5.5
CLZ	72.96	P		06:58:41.057	0.4	12.3		5.82		TAS		42.0	1.03	m_e	mb	5.5
FLT1	72.36	P		06:58:37.216	-0.7	12.3		5.82		TAS		29.1	1.13	m_e	mb	5.3
GEC2	75.39	P		06:58:55.422		12.3		5.82		TAS		34.0	0.85	m_e	mb	5.4
GRA1	74.94	P		06:58:52.692	0.4	12.3		5.82		TAS		34.1	0.88	m_e	mb	5.4
GTTG	73.30	P		06:58:42.869		12.3		5.82		TAS		29.3	1.10	m_e	mb	5.3
IBBN	72.83	P		06:58:40.323	0.5	12.3		5.82		TAS		75.8	1.07	m_e	mb	5.8
KAST	73.84	P		06:58:46.192	-0.4	12.3		5.82		TAS		17.8	1.13	m_e	mb	5.0
MOX	73.95	P		06:58:47.245	0.2	12.3		5.82		TAS		22.1	0.92	m_e	mb	5.2
NEUB	73.40	P		06:58:43.530	-0.1	12.3		5.82		TAS		26.6	0.86	m_e	mb	5.4
TANN	74.05	P		06:58:47.787	-0.2	12.3		5.82		TAS		29.6	1.10	m_e	mb	5.2

TNS	74.79	P	06:58:51.814	0.6	12.3	5.82	TAS	15.5	1.05	m_e mb	5.0
WET	75.23	P	06:58:54.340	-0.5	12.3	5.82	TAS	36.6	0.94	m_e mb	5.4
WLF	75.61	P	06:58:56.915		12.3	5.82	TAS	21.6	0.96	m_e mb	5.2

Event 1209003 Lake Baykal, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/09	21:44:38.28			54.2350	109.8890				18.9					56.07	56.07	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	1209009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	56.07		P	21:54:12.650		44.8		5.97		TAS		5.0	0.86	m_e mb	4.6
GRA1	56.07		pP	21:54:17.861						T__				m_e	

Event 1210001 Southeast of Taiwan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/10	05:29:30.68			22.8630	123.8170				33.0					86.35	86.35	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	1210007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	86.35		P	05:42:08.837		63.0		4.52		TAS		5.5	0.96	m_e mb	4.7

Event 1210002 Southwestern Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/10	13:19:51.93			24.2600	123.4900				86.5					85.06	85.06	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1210008
MBB	6.0		BGR	1210008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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GRA1	85.06	P	13:32:23.641	62.4	4.62	TAS	26.6	0.94	m_e	mb	5.5
GRA1	85.06	pP	13:32:46.298			T__				m_e	

Event 1211007 Northeast of Taiwan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/11	09:48:48.15			25.0000	124.2800				36.2	2.0		18		82.74	85.93	m i ke	BGR
OrigID 1211013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1211013
Ms	5.1		BGR	1211013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	83.80		P	10:01:14.830		57.0		5.12		TAS		95.9	1.85	m_e	mb	5.7
BRG	82.74		P	10:01:10.055	0.8	57.0		5.12		TAS		12.7	1.14	m_e	mb	5.0
BSEG	82.98		P	10:01:10.369	-0.5	57.0		5.12		TAS		40.8	1.36	m_e	mb	5.5
BSEG	82.98		pP	10:01:21.466	-0.2	57.2		5.08		TAS				m_e		
BUG	85.93		pP	10:01:36.006		57.2		5.08		TAS				m_e		
CLL	83.02		P	10:01:10.258	-0.5	57.0		5.12		TAS		66.2	2.02	m_e	mb	5.5
CLZ	84.11		P	10:01:16.433	0.1	57.0		5.12		TAS		24.8	1.04	m_e	mb	5.4
CLZ	84.11		pP	10:01:26.562		57.2		5.08		TAS				m_e		
FLT1	83.40		P	10:01:12.181	0.0	57.0		5.12		TAS		14.8	1.01	m_e	mb	5.2
FLT1	83.40		pP	10:01:23.006	-0.1	57.2		5.08		TAS				m_e		
FUR	85.66		pP	10:01:34.920		57.2		5.08		TAS				m_e		
GEC2	83.93		P	10:01:15.240	-0.1	57.0		5.12		TAS		14.5	1.41	m_e	mb	5.0
GEC2	83.93		pP	10:01:25.454		57.2		5.08		TAS				m_e		
GRA1	84.85		P	10:01:20.179		57.0		5.12		TAS		58.0	1.72	m_e	mb	5.5
GRA1	84.85		L	10:44:07.247						T__		797.6	18.20	a_e	Ms	5.1
GTTG	84.49		P	10:01:18.300		57.0		5.12		TAS		27.0	1.06	m_e	mb	5.4
GTTG	84.49		pP	10:01:28.591		57.2		5.08		TAS				m_e		
IBBN	85.18		pP	10:01:31.905		57.2		5.08		TAS				m_e		
KAST	85.48		P	10:01:23.290		57.0		5.12		TAS		61.6	1.99	m_e	mb	5.4
MOX	84.12		P	10:01:16.248	0.5	57.0		5.12		TAS		13.3	1.25	m_e	mb	5.0
MOX	84.12		L	10:44:01.375						T__		837.9	19.10	a_e	Ms	5.1
NEUB	83.74		P	10:01:14.409	0.2	57.0		5.12		TAS		23.0	0.89	m_e	mb	5.4
PLN	83.91		P	10:01:14.915	0.1	57.0		5.12		TAS		10.2	1.46	m_e	mb	4.8
RETH	84.13		P	10:01:16.838	0.1	57.0		5.12		TAS		135.3	2.67	m_e	mb	5.7
TANN	83.79		P	10:01:14.801	-0.1	57.0		5.12		TAS		16.2	1.40	m_e	mb	5.1
WET	84.23		P	10:01:16.737	-0.0	57.0		5.12		TAS		24.9	1.76	m_e	mb	5.2

Event 1212001 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
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OrigID
 2020/12/12 07:18:56.92 40.7390 142.0950 33.0 25 75.46 82.33 m i ke BGR
 1212007

Magnitude Err Nsta Author OrigID
 mb 5.7 BGR 1212007
 Ms 5.0 BGR 1212007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	78.35		P	07:30:52.160	0.4	35.6		5.41		TAS		46.8	1.07	a_e	mb	5.5
BFO	82.33		P	07:31:13.410		35.6		5.41		TAS		54.4	1.04	a_e	mb	5.6
BRG	78.14		P	07:30:51.010	-0.0	35.6		5.41		TAS		39.9	0.84	a_e	mb	5.6
BSEG	77.00		P	07:30:44.910	0.4	35.6		5.41		TAS		73.9	0.98	a_e	mb	5.8
BUG	80.11		P	07:31:01.460	-0.4	35.6		5.41		TAS		68.1	1.13	a_e	mb	5.5
CLL	78.15		P	07:30:50.710	0.1	35.6		5.41		TAS		86.3	0.95	a_e	mb	5.9
CLZ	78.69		P	07:30:54.410	0.1	35.6		5.41		TAS		77.4	0.96	a_e	mb	5.7
FLT1	77.98		P	07:30:49.660	0.0	35.6		5.41		TAS		79.0	0.94	a_e	mb	5.8
FUR	81.35		P	07:31:08.560		35.6		5.41		TAS		147.7	0.95	m_e	mb	6.0
GEC2	79.85		P	07:31:00.210	-0.3	35.6		5.41		TAS		50.9	1.13	m_e	mb	5.4
GOR1	77.42		P	07:30:47.510	0.1	35.6		5.41		TAS		118.9	1.27	a_e	mb	5.9
GRA1	80.13		P	07:31:02.360	-0.1	35.6		5.41		TAS		163.5	1.19	a_e	mb	5.8
GRA1	80.13		L	08:08:51.469						T__		718.2	21.90	a_e	Ms	5.0
GTTG	79.08		P	07:30:56.260	-0.2	35.6		5.41		TAS		72.7	1.00	a_e	mb	5.7
IBBN	79.22		P	07:30:56.810	-0.5	35.6		5.41		TAS		77.0	1.01	a_e	mb	5.7
KAST	79.91		P	07:31:00.710	-0.3	35.6		5.41		TAS		37.3	1.18	a_e	mb	5.2
MOX	79.21		P	07:30:56.810	0.0	35.6		5.41		TAS		36.4	0.99	a_e	mb	5.4
MOX	79.21		L	08:08:45.648						T__		699.8	21.90	a_e	Ms	5.0
NEUB	78.71		P	07:30:53.860	-0.1	35.6		5.41		TAS		106.4	1.20	a_e	mb	5.8
PLN	79.13		P	07:30:56.460	-0.0	35.6		5.41		TAS		10.1	1.09	a_e	mb	4.8
RETH	78.31		P	07:30:52.010	-0.1	35.6		5.41		TAS		45.9	1.06	a_e	mb	5.5
RGN	75.46		P	07:30:36.360	-0.1	35.6		5.41		TAS		289.1	1.34	a_e	mb	6.1
RUE	76.93		P	07:30:44.460	0.0	35.6		5.41		TAS		148.3	1.27	a_e	mb	6.0
STU	81.65		P	07:31:09.860	0.1	35.6		5.41		TAS		264.5	1.04	a_e	mb	6.3
TANN	79.07		P	07:30:56.089	-0.1	35.6		5.41		TAS		92.6	1.84	m_e	mb	5.5
TNS	80.72		P	07:31:04.910	0.5	35.6		5.41		TAS		55.2	1.27	a_e	mb	5.4
WET	79.93		P	07:31:01.210	-0.2	35.6		5.41		TAS		76.8	1.03	a_e	mb	5.6

Event 1212002 Eastern Caucasus
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/12 21:29:46.57 43.1800 46.6400 33.0 15 23.43 27.40 m i ke BGR
 1212008

Magnitude Err Nsta Author OrigID
 mb 4.4 BGR 1212008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	25.60		P	21:35:13.947	-0.5	94.2		9.07		TAS		13.6	0.93	m_e	mb 4.6
BRG	23.43		P	21:34:53.304	-0.7	94.2		9.07		TAS		9.6	1.09	m_e	mb 4.2
BSEG	26.06		P	21:35:15.842		94.2		9.07		TAS		17.1	0.78	m_e	mb 4.7
CLL	24.07		P	21:34:59.430	-0.4	94.2		9.07		TAS		12.5	0.90	m_e	mb 4.4
CLZ	25.76		P	21:35:15.540		94.2		9.07		TAS		8.2	0.87	m_e	mb 4.4
FLT1	25.28		P	21:35:09.863	-1.5	94.2		9.07		TAS		8.5	0.88	m_e	mb 4.5
GEC2	23.45		P	21:34:53.587	0.1	94.2		9.07		TAS		5.7	0.80	m_e	mb 4.2
IBBN	27.40		P	21:35:30.430		94.2		9.07		TAS		7.3	0.76	m_e	mb 4.5
KAST	26.93		P	21:35:28.489		94.2		9.07		TAS		7.4	0.83	m_e	mb 4.5
MOX	24.88		P	21:35:06.343	-0.6	94.2		9.07		TAS		6.5	1.00	m_e	mb 4.3
RUE	23.76		P	21:34:57.552	1.0	94.2		9.07		TAS		67.9	1.05	m_e	mb 5.1
STU	26.43		P	21:35:20.004		94.2		9.07		TAS		21.5	0.88	m_e	mb 4.8
TANN	24.33		P	21:35:01.816	-0.3	94.2		9.07		TAS		6.7	1.01	m_e	mb 4.1
TNS	26.89		P	21:35:23.792		94.2		9.07		TAS		3.8	0.70	m_e	mb 4.2
WET	24.00		P	21:34:59.601	1.0	94.2		9.07		TAS		4.9	0.85	m_e	mb 4.1

Event 1213002 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/13	07:25:36.57			-23.9360	177.2850				33.0			27		147.17	154.13	m i ke	BGR
	1213008																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	150.04		PKPbc	07:45:23.944	0.2	28.0		2.37		TAS				a_e	
BFO	154.13		PKPbc	07:45:32.944	-0.5	28.0		2.37		TAS				a_e	
BRG	150.17		PKPbc	07:45:24.144	0.1	28.0		2.37		TAS				m_e	
BSEG	148.48		PKPbc	07:45:19.944	-0.2	28.0		2.37		TAS				a_e	
BUG	151.48		PKPbc	07:45:27.144	-0.3	28.0		2.37		TAS				a_e	
CLL	150.10		PKPbc	07:45:23.744	-0.1	28.0		2.37		TAS				a_e	
CLZ	150.38		PKPbc	07:45:24.994	0.5	28.0		2.37		TAS				a_e	
FLT1	149.71		PKPbc	07:45:22.844	-0.1	28.0		2.37		TAS				a_e	
FUR	153.39		PKPbc	07:45:31.294	-0.3	28.0		2.37		TAS				a_e	
GEC2	151.97		PKPbc	07:45:28.144	-0.2	28.0		2.37		TAS				a_e	
GOR1	149.10		PKPbc	07:45:21.794	0.3	28.0		2.37		TAS				a_e	
GRA1	152.07		PKPbc	07:45:28.594	0.1	28.0		2.37		TAS				a_e	
GTTG	150.76		PKPbc	07:45:25.694	0.2	28.0		2.37		TAS				a_e	
HLG	148.76		PKPbc	07:45:20.994	-0.1	28.0		2.37		TAS				a_e	
IBBN	150.56		PKPbc	07:45:25.244	-0.0	28.0		2.37		TAS				a_e	
KAST	151.45		PKPbc	07:45:27.344	0.1	28.0		2.37		TAS				a_e	
MOX	151.11		PKPbc	07:45:26.344	0.1	28.0		2.37		TAS				a_e	
NEUB	150.58		PKPbc	07:45:25.094	0.2	28.0		2.37		TAS				a_e	
PLN	151.08		PKPbc	07:45:26.294	0.2	28.0		2.37		TAS				a_e	
RETH	149.81		PKPbc	07:45:23.444	0.1	28.0		2.37		TAS				a_e	

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Wed Mar 30 12:17:24 2022

15

RGN	147.17	PKPbc	07:45:16.294	-0.6	28.0	2.37	TAS	a_e
RUE	148.85	PKPbc	07:45:20.694	-0.1	28.0	2.37	TAS	a_e
STU	153.49	PKPbc	07:45:31.694	-0.2	28.0	2.37	TAS	a_e
TANN	151.05	PKPbc	07:45:26.294	0.2	28.0	2.37	TAS	a_e
TNS	152.35	PKPbc	07:45:29.294	0.0	28.0	2.37	TAS	a_e
WET	152.01	PKPbc	07:45:28.444	0.1	28.0	2.37	TAS	a_e
WLF	153.40	PKPbc	07:45:32.144	0.2	28.0	2.37	TAS	a_e

Event 1214001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/14	04:19:45.15			-18.6270	-175.3070				200.0			14		144.49	150.22	m i ke	BGR
	1214007																

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.22		PKPbc	04:39:21.497		11.9		2.71		TAS				m_e	
BRG	147.00		PKPbc	04:39:13.663	-0.5	11.9		2.71		TAS				m_e	
BSEG	144.49		PKPbc	04:39:06.059	-0.2	11.9		2.71		TAS				m_e	
CLL	146.73		PKPbc	04:39:12.581	0.3	11.9		2.71		TAS				m_e	
CLZ	146.56		pPKPbc	04:39:12.549						T__				m_e	
FLT1	145.98		PKPbc	04:39:10.242	0.5	11.9		2.71		TAS				m_e	
FUR	150.06		PKPbc	04:39:21.276		11.9		2.71		TAS				m_e	
GEC2	148.99		PKPbc	04:39:18.760		11.9		2.71		TAS				m_e	
GRA1	148.57		PKPbc	04:39:17.715		11.9		2.71		TAS				m_e	
KAST	147.36		pPKPbc	04:39:14.568						T__				m_e	
MOX	147.58		PKPbc	04:39:15.138		11.9		2.71		TAS				m_e	
RUE	145.48		PKPbc	04:39:08.849	0.4	11.9		2.71		TAS				m_e	
TANN	147.68		PKPbc	04:39:15.588		11.9		2.71		TAS				m_e	
TNS	148.34		PKPbc	04:39:17.241		11.9		2.71		TAS				m_e	
WET	148.85		PKPbc	04:39:17.490		11.9		2.71		TAS				m_e	
WLF	149.01		PKPbc	04:39:19.330		11.9		2.71		TAS				m_e	

Event 1214002 Norwegian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/14	19:36:02.95			71.9500	1.9800				10.0			25		18.14	24.25	m i ke	BGR
	1214008																

Magnitude	Err	Nsta	Author	OrigID
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mb	5.6		BGR	1214008
Ms	5.6		BGR	1214008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	20.26		P	19:40:38.719	0.8	353.6		10.65		TAS		1303.9	1.99	m_e mb	5.8
BFO	23.88		P	19:41:16.304		353.6		10.65		TAS		171.8	1.27	m_e mb	5.4
BRG	21.82		P	19:40:54.390	-0.4	353.6		10.65		TAS		416.9	1.61	m_e mb	5.6
BSEG	18.44		P	19:40:18.678	-0.6	353.6		10.65		TAS		287.0	1.28	m_e mb	5.2
BUG	20.72		P	19:40:43.658	0.5	353.6		10.65		TAS		256.5	1.05	m_e mb	5.5
CLL	21.29		P	19:40:48.875	-0.4	353.6		10.65		TAS		857.1	1.86	m_e mb	5.8
CLZ	20.52		P	19:40:41.708	0.4	353.6		10.65		TAS		356.6	1.24	m_e mb	5.6
FLT1	20.11		P	19:40:36.896	-0.2	353.6		10.65		TAS		519.8	1.82	a_e mb	5.5
FUR	24.25		P	19:41:20.846		353.6		10.65		TAS		276.1	1.30	a_e mb	5.6
GEC2	23.80		P	19:41:17.279	-0.8	353.6		10.65		TAS		173.4	0.95	m_e mb	5.6
GOR1	19.46		P	19:40:29.885	1.5	353.6		10.65		TAS		1515.7	1.92	m_e mb	5.9
GRA1	22.73		P	19:41:06.492	1.3	353.6		10.65		TAS		188.1	1.17	m_e mb	5.5
GRA1	22.73		L	19:49:43.606						T__		22596.4	21.30	a_e Ms	5.6
GTTG	20.78		P	19:40:45.540	-0.6	353.6		10.65		TAS		1333.6	2.04	m_e mb	5.9
IBBN	19.88		P	19:40:34.185	-0.4	353.6		10.65		TAS		738.9	2.02	m_e mb	5.6
KAST	21.02		P	19:40:47.440	-0.2	353.6		10.65		TAS		308.8	1.32	m_e mb	5.5
MOX	21.82		P	19:40:55.546	0.0	353.6		10.65		TAS		190.1	1.05	m_e mb	5.5
MOX	21.82		L	19:49:05.102						T__		22414.0	21.60	a_e Ms	5.5
NEUB	21.29		P	19:40:49.428	-0.0	353.6		10.65		TAS		491.4	0.96	m_e mb	5.8
PLN	22.02		P	19:40:57.204	0.5	353.6		10.65		TAS		100.0	0.93	m_e mb	5.2
RGN	18.14		P	19:40:15.519	0.3	353.6		10.65		TAS		1015.0	1.62	m_e mb	5.7
RUE	20.23		P	19:40:38.896	-0.5	353.6		10.65		TAS		2422.4	2.07	a_e mb	6.1
STU	23.49		P	19:41:11.096	-0.8	353.6		10.65		TAS		501.0	1.35	a_e mb	5.9
TANN	22.12		P	19:40:58.609	2.0	353.6		10.65		TAS		438.7	1.50	m_e mb	5.7
TNS	22.00		P	19:40:57.761	1.1	353.6		10.65		TAS		257.2	1.18	m_e mb	5.5
WET	23.42		P	19:41:12.559	-2.3	353.6		10.65		TAS		208.8	1.20	m_e mb	5.5
WLF	22.44		P	19:41:02.567	0.2	353.6		10.65		TAS		166.2	1.07	m_e mb	5.4

Event 1215004 South China Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/15	23:23:11.37			19.5000	115.5000				54.9	7.6		13		81.65	85.21	m i ke	BGR
1215010																	

Magnitude Err Nsta Author
mb 4.9 BGR

OrigID
1215010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	83.54		P	23:35:45.778	-0.5	66.9		5.08		TAS		5.7	0.86	m_e mb	4.8
ASSE	83.54		pP	23:36:01.001						T__				m_e	
BRG	82.13		P	23:35:38.349	-1.2	66.9		5.08		TAS		11.1	1.07	m_e mb	4.9
BRG	82.13		pP	23:35:52.976						T__				m_e	
BSEG	83.02		P	23:35:41.281	0.3	66.9		5.08		TAS		7.5	0.95	m_e mb	4.9
CLZ	83.83		P	23:35:46.974		66.9		5.08		TAS		9.7	1.06	m_e mb	5.0

Station	Mag	Type	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
CLZ	83.83	pP	23:36:02.824																	
FLT1	83.15	P	23:35:42.701	0.6	66.9				5.08			4.8	0.89			m_e mb		4.7		
GEC2	83.01	P	23:35:42.130	-0.7	66.9				5.08			6.6	1.17			m_e mb		4.8		
GEC2	83.01	pP	23:35:58.508																	
GTTG	84.18	P	23:35:48.483		66.9				5.08			9.8	0.99			m_e mb		5.0		
IBBN	85.10	P	23:35:53.748		66.9				5.08			4.8	0.74			m_e mb		4.8		
IBBN	85.10	pP	23:36:08.128																	
KAST	85.21	P	23:35:53.110		66.9				5.08			10.1	1.25			m_e mb		4.9		
MOX	83.58	P	23:35:45.665		66.9				5.08			4.0	0.99			m_e mb		4.6		
RUE	81.65	P	23:35:35.936	0.4	66.9				5.08			62.9	1.29			m_e mb		5.6		
TANN	83.17	P	23:35:43.561	0.3	66.9				5.08			6.8	1.11			m_e mb		4.8		
WET	83.40	P	23:35:43.704	0.7	66.9				5.08			4.3	1.14			m_e mb		4.6		
WET	83.40	pP	23:36:01.113																	

Event 1216001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/16	01:28:15.42			44.0700	142.6400				44.2	1.8		21		74.22	79.62	m i ke	BGR
OrigID 1216007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1216007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	75.61		P	01:39:56.196	0.4	33.7		5.63		TAS		9.3	1.00	a_e mb	4.9
BFO	79.62		P	01:40:18.046		33.7		5.63		TAS		5.5	0.84	a_e mb	4.5
BRG	75.48		P	01:39:55.496	-0.2	33.7		5.63		TAS		7.0	0.94	a_e mb	4.7
BSEG	74.22		P	01:39:48.446	-0.1	33.7		5.63		TAS		15.8	0.87	a_e mb	5.1
BUG	77.32		P	01:40:05.485	0.4	33.7		5.63		TAS		17.3	0.97	m_e mb	5.2
CLL	75.47		P	01:39:55.146	0.0	33.7		5.63		TAS		21.9	0.89	a_e mb	5.2
CLL	75.47		pP	01:40:07.674	6.7					T__					m_e
CLZ	75.95		P	01:39:58.496	-0.1	33.7		5.63		TAS		29.9	1.17	a_e mb	5.3
FLT1	75.24		P	01:39:53.746	0.0	33.7		5.63		TAS		15.4	0.87	a_e mb	5.0
FLT1	75.24		pP	01:40:06.002	6.7					T__					m_e
FUR	78.70		P	01:40:13.596	-0.7	33.7		5.63		TAS		22.2	0.86	a_e mb	5.2
GEC2	77.23		P	01:40:05.346	-0.2	33.7		5.63		TAS		5.4	0.88	a_e mb	4.7
GRA1	77.45		P	01:40:06.946	-0.5	33.7		5.63		TAS		22.1	0.92	a_e mb	5.3
GTTG	76.33		P	01:40:00.396	-0.1	33.7		5.63		TAS		15.3	0.97	a_e mb	5.1
IBBN	76.42		P	01:40:00.546	0.0	33.7		5.63		TAS		18.5	0.90	a_e mb	5.2
KAST	77.15		P	01:40:04.696	0.5	33.7		5.63		TAS		9.3	0.93	a_e mb	4.9
MOX	76.51		P	01:40:01.296	0.1	33.7		5.63		TAS		7.6	0.95	a_e mb	4.8
NEUB	76.00		P	01:39:58.196	0.1	33.7		5.63		TAS		20.5	0.92	a_e mb	5.2
NEUB	76.00		pP	01:40:11.398	6.7					T__					m_e
RUE	74.24		P	01:39:48.416	-0.4	33.7		5.63		TAS		32.3	1.14	m_e mb	5.2
STU	78.94		P	01:40:14.446		33.7		5.63		TAS		33.3	0.88	a_e mb	5.4
TNS	77.97		P	01:40:09.246	1.1	33.7		5.63		TAS		11.9	1.08	a_e mb	4.9

WET	77.29	P	01:40:06.146	0.0	33.7	5.63	TAS	15.7	0.95	m_e	mb	5.1
WET	77.29	pP	01:40:18.945	6.7			T__			m_e		
WLF	79.21	P	01:40:17.528		33.7	5.63	TAS	7.1	0.85	m_e	mb	4.7

Event 1216002 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/16	05:49:33.79			54.3480	-160.2790				45.1	0.9		27		71.34	77.62	m i ke	BGR
OrigID 1216008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	1216008
Ms	4.4		BGR	1216008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	73.63	P		06:01:02.051	-0.1	354.9		5.72		TAS		54.8	0.98	a_e	mb 5.5
BFO	77.25	P		06:01:22.451	-0.4	354.9		5.72		TAS		28.0	0.78	a_e	mb 5.5
BRG	75.04	P		06:01:10.201	0.0	354.9		5.72		TAS		54.9	1.08	a_e	mb 5.5
BRG	75.04	pP		06:01:23.323						T__				m_e	
BSEG	71.80	P		06:00:51.601	-0.1	354.9		5.72		TAS		54.8	0.82	a_e	mb 5.7
BUG	74.07	P		06:01:04.351	-0.3	354.9		5.72		TAS		97.5	0.81	a_e	mb 5.9
CLL	74.57	P		06:01:07.151	-0.3	354.9		5.72		TAS		53.4	0.87	a_e	mb 5.6
CLL	74.57	pP		06:01:20.093						T__				m_e	
CLZ	73.89	P		06:01:04.051	0.4	354.9		5.72		TAS		74.9	0.88	a_e	mb 5.7
FLT1	73.46	P		06:01:00.601	-0.6	354.9		5.72		TAS		72.8	1.05	a_e	mb 5.7
FLT1	73.46	pP		06:01:13.425						T__				m_e	
FUR	77.62	P		06:01:24.851	-0.1	354.9		5.72		TAS		55.6	0.79	a_e	mb 5.7
GEC2	77.06	P		06:01:21.701	-0.1	354.9		5.72		TAS		26.9	0.78	m_e	mb 5.4
GEC2	77.06	pP		06:01:34.536						T__				m_e	
GOR1	72.80	P		06:00:57.551	0.1	354.9		5.72		TAS		62.8	1.12	a_e	mb 5.7
GRA1	76.09	P		06:01:16.451	0.2	354.9		5.72		TAS		50.3	0.77	a_e	mb 5.7
GRA1	76.09	L		06:29:19.862						T__		175.4	20.40	a_e	Ms 4.4
GTTG	74.16	P		06:01:05.501	0.3	354.9		5.72		TAS		123.7	0.85	a_e	mb 6.0
GTTG	74.16	pP		06:01:18.489						T__				m_e	
HLG	71.39	P		06:00:49.201	-0.1	354.9		5.72		TAS		257.6	0.92	a_e	mb 6.3
IBBN	73.25	P		06:01:00.001	0.1	354.9		5.72		TAS		70.5	0.79	a_e	mb 5.8
KAST	74.40	P		06:01:06.601	0.1	354.9		5.72		TAS		48.5	1.03	a_e	mb 5.5
MOX	75.16	P		06:01:10.951	0.0	354.9		5.72		TAS		117.9	1.21	a_e	mb 5.8
MOX	75.16	L		06:36:31.342						T__		166.4	19.10	a_e	Ms 4.3
NEUB	74.62	P		06:01:07.801	-0.0	354.9		5.72		TAS		103.0	0.76	a_e	mb 5.9
PLN	75.35	P		06:01:11.951	-0.0	354.9		5.72		TAS		11.0	0.80	a_e	mb 4.9
RETH	72.94	P		06:00:58.251	0.1	354.9		5.72		TAS		62.5	1.10	a_e	mb 5.7
RETH	72.94	pP		06:01:10.898						T__				m_e	
RGN	71.34	P		06:00:49.151	0.1	354.9		5.72		TAS		116.5	0.76	a_e	mb 6.1
RUE	73.43	P		06:01:01.051	0.1	354.9		5.72		TAS		162.2	0.93	a_e	mb 6.1
STU	76.87	P		06:01:20.501	-0.2	354.9		5.72		TAS		104.3	0.90	a_e	mb 6.0

STU	76.87	pP	06:01:33.469							T__							m_e
TANN	75.43	P	06:01:12.601	0.1	354.9			5.72		TAS	18.2	0.89	a_e	mb			5.1
TNS	75.37	P	06:01:12.151	0.0	354.9			5.72		TAS	49.0	0.80	a_e	mb			5.6
TNS	75.37	pP	06:01:25.064							T__							m_e
WET	76.72	P	06:01:20.151	0.3	354.9			5.72		TAS	47.0	1.14	a_e	mb			5.5
WLF	75.73	P	06:01:14.501	0.4	354.9			5.72		TAS	97.3	1.09	a_e	mb			5.8

Event 1216003 New Guinea, Papua New Guinea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/16	16:08:26.70			-6.3800	143.1600				14.0			18		118.92	123.80	m i ke	EMSC
	1216035																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	120.05		PKPdf	16:27:16.637	0.2	59.6		1.96		TAS					m_e
BFO	123.35		PKPdf	16:27:22.793		59.6		1.96		TAS					m_e
BRG	118.92		PKPdf	16:27:14.709	0.4	59.6		1.96		TAS					m_e
BSEG	119.25		PKPdf	16:27:15.811	0.0	59.6		1.96		TAS					m_e
BUG	122.19		PKPdf	16:27:20.678		59.6		1.96		TAS					m_e
CLL	119.23		PKPdf	16:27:14.868	-0.4	59.6		1.96		TAS					m_e
CLZ	120.36		PKPdf	16:27:17.595	0.1	59.6		1.96		TAS					m_e
FLT1	119.65		PKPdf	16:27:15.646	-0.2	59.6		1.96		TAS					m_e
FUR	121.75		PKPdf	16:27:19.822		59.6		1.96		TAS					m_e
GEC2	120.01		PKPdf	16:27:16.680	0.2	59.6		1.96		TAS					m_e
GRA1	121.02		PKPdf	16:27:18.767		59.6		1.96		TAS					m_e
GTTG	120.73		PKPdf	16:27:18.382	0.6	59.6		1.96		TAS					m_e
IBBN	121.44		PKPdf	16:27:19.566		59.6		1.96		TAS					m_e
MOX	120.32		PKPdf	16:27:16.992	-0.2	59.6		1.96		TAS					m_e
TANN	119.97		PKPdf	16:27:16.557	0.2	59.6		1.96		TAS					m_e
TNS	122.26		PKPdf	16:27:21.260		59.6		1.96		TAS					m_e
WET	120.35		PKPdf	16:27:17.498	-0.4	59.6		1.96		TAS					m_e
WLF	123.80		PKPdf	16:27:24.739		59.6		1.96		TAS					m_e

Event 1217002 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/17	13:36:27.49	2.61	1.51	34.0740	27.7080	89.0	78.9	4	33.0			24	343	16.06	23.35	m i ke	BGR
	1217008																

Magnitude Err Nsta Author OrigID

mb	4.3		BGR	1217008
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	16.06		P	13:40:08.552	-0.7					T__		7.3	0.78	m_e	mb 3.9
BALST	20.07		P	13:40:56.453	-1.1					T__		21.0	0.80	m_e	mb 4.4
BRG	19.56		P	13:40:52.494	0.7					T__		13.6	0.81	m_e	mb 4.2
BSEG	23.35		P	13:41:31.305	-0.3					T__		11.3	0.66	m_e	mb 4.5
BUG	22.82		P	13:41:27.184	0.8					T__		12.6	0.75	m_e	mb 4.5
CLL	20.27		P	13:40:59.277	-0.4					T__		12.5	0.87	m_e	mb 4.2
CLZ	21.73		P	13:41:14.635	-0.7					T__		8.0	0.82	m_e	mb 4.2
DAVA	18.84		P	13:40:43.718	0.3					T__		15.8	0.80	m_e	mb 4.3
FLT1	21.75		P	13:41:14.296	-1.3					T__		10.7	0.83	m_e	mb 4.3
GEC2	18.07		P	13:40:35.358	1.1					T__		11.2	0.81	m_e	mb 4.0
GRA1	19.78		P	13:40:53.192	-1.1					T__		15.3	0.83	m_e	mb 4.3
GTTG	21.68		P	13:41:14.805	-0.1					T__		30.1	0.76	m_e	mb 4.8
IBBN	23.18		P	13:41:30.986	1.0					T__		19.5	0.72	m_e	mb 4.7
KAST	22.12		P	13:41:18.829	-0.6					T__		12.9	0.75	m_e	mb 4.4
KBA	16.93		P	13:40:21.643	1.4					T__		16.3	0.79	m_e	mb 4.2
MOA	17.06		P	13:40:24.138	2.1					T__		14.3	0.87	m_e	mb 4.1
MOX	20.31		P	13:40:59.632	-0.6					T__		12.8	0.75	m_e	mb 4.2
SLE	19.87		P	13:40:52.720	-2.6					T__		26.9	0.74	m_e	mb 4.6
SULZ	19.94		P	13:40:53.877	-2.3					T__		78.0	0.83	m_e	mb 5.0
TANN	19.79		P	13:40:53.564	-0.8					T__		11.3	0.81	m_e	mb 4.1
TNS	21.45		P	13:41:13.499	1.1					T__		18.2	0.69	m_e	mb 4.5
WET	18.65		P	13:40:39.717	-1.5					T__		7.3	0.83	m_e	mb 4.0
WLF	22.25		P	13:41:25.389	4.7					T__		20.1	0.85	m_e	mb 4.6
WTTA	17.90		P	13:40:33.414	1.1					T__		10.7	0.69	m_e	mb 4.1

Event 1218002 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/18	09:10:00.54			33.5280	139.4490				33.0					84.39	85.28	m i ke	BGR
OrigID 1218008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1218008
Ms	4.6		BGR	1218008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	85.28		P	09:22:32.923		44.8		4.15		TAS		20.9	1.08	m_e	mb 5.3
GRA1	85.28		L	10:04:25.785						T__		315.5	20.80	a_e	Ms 4.7
MOX	84.39		L	10:00:20.145						T__		221.6	21.50	a_e	Ms 4.5

Event 1219002 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/19	00:10:42.22			54.6000	-160.2900				33.0			22		71.55	77.00	m i ke	BGR
1219008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1219008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	73.38		P	00:22:10.519	-0.2	354.8		5.82		TAS		21.0	1.16	m_e	mb 5.2
BFO	77.00		P	00:22:31.417		354.8		5.82		TAS		6.5	0.94	m_e	mb 4.7
BRG	74.79		P	00:22:18.711	0.1	354.8		5.82		TAS		19.2	1.03	m_e	mb 5.1
BSEG	71.55		P	00:21:59.952	0.1	354.8		5.82		TAS		35.7	1.13	m_e	mb 5.4
BUG	73.82		P	00:22:12.912	-0.0	354.8		5.82		TAS		20.1	0.97	m_e	mb 5.1
CLL	74.31		P	00:22:15.778	-0.1	354.8		5.82		TAS		19.4	0.93	m_e	mb 5.1
CLZ	73.64		P	00:22:12.474	-0.3	354.8		5.82		TAS		30.2	1.10	m_e	mb 5.2
FLT1	73.21		P	00:22:09.105	0.4	354.8		5.82		TAS		20.4	0.99	m_e	mb 5.2
GEC2	76.81		P	00:22:30.534		354.8		5.82		TAS		9.3	0.88	m_e	mb 4.9
GRA1	75.84		P	00:22:25.249	-0.2	354.8		5.82		TAS		17.0	0.94	m_e	mb 5.2
GTTG	73.91		P	00:22:14.157	0.1	354.8		5.82		TAS		30.4	1.03	m_e	mb 5.3
IBBN	73.00		P	00:22:08.501	0.3	354.8		5.82		TAS		21.4	0.82	m_e	mb 5.3
KAST	74.15		P	00:22:15.206	0.0	354.8		5.82		TAS		17.2	1.09	m_e	mb 5.0
MOX	74.91		P	00:22:19.592	0.1	354.8		5.82		TAS		23.2	1.04	m_e	mb 5.2
NEUB	74.37		P	00:22:16.407	0.1	354.8		5.82		TAS		32.6	0.92	m_e	mb 5.3
PLN	75.09		P	00:22:20.736	0.3	354.8		5.82		TAS		4.7	1.09	m_e	mb 4.4
RETH	72.69		P	00:22:06.669	-0.6	354.8		5.82		TAS		16.6	1.11	m_e	mb 5.1
RUE	73.18		P	00:22:09.624	-0.1	354.8		5.82		TAS		48.7	0.97	m_e	mb 5.6
STU	76.62		P	00:22:29.282		354.8		5.82		TAS		37.9	1.01	m_e	mb 5.5
TANN	75.18		P	00:22:21.244	0.1	354.8		5.82		TAS		10.8	1.11	m_e	mb 4.8
TNS	75.12		P	00:22:20.894	-0.0	354.8		5.82		TAS		14.2	1.02	m_e	mb 4.9
WET	76.47		P	00:22:28.753		354.8		5.82		TAS		13.4	1.15	m_e	mb 5.0

Event 1220003 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/20	01:54:32.63			34.4460	142.0020				33.0			24		82.38	87.79	m i ke	BGR
1220009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1220009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	83.86		P	02:06:57.143	-0.1	38.8		4.99		TAS		25.0	1.23	m_e	mb 5.3
BFO	87.79		P	02:07:16.178		38.8		4.99		TAS		6.1	0.89	m_e	mb 4.9
BRG	83.52		P	02:06:55.716	-0.3	38.8		4.99		TAS		15.8	0.83	m_e	mb 5.3
BSEG	82.58		P	02:06:50.952	0.3	38.8		4.99		TAS		21.4	1.04	m_e	mb 5.3

BUG	85.69	P	02:07:06.330	0.9	38.8	4.99	TAS	26.1	0.94	m_e	mb	5.3
CLL	83.58	P	02:06:55.814	-0.0	38.8	4.99	TAS	33.6	0.86	m_e	mb	5.6
CLZ	84.21	P	02:06:59.446	0.0	38.8	4.99	TAS	45.2	1.15	m_e	mb	5.6
FLT1	83.49	P	02:06:55.140	-0.2	38.8	4.99	TAS	34.2	1.11	m_e	mb	5.5
GEC2	85.16	P	02:07:03.664	0.0	38.8	4.99	TAS	8.4	0.97	m_e	mb	4.9
GOR1	82.95	P	02:06:53.127	-0.4	38.8	4.99	TAS	27.2	1.25	m_e	mb	5.3
GRA1	85.55	P	02:07:06.330	0.0	38.8	4.99	TAS	43.0	1.07	m_e	mb	5.5
GTTG	84.59	P	02:07:01.262	0.1	38.8	4.99	TAS	34.3	0.97	m_e	mb	5.5
IBBN	84.82	P	02:07:02.200	0.1	38.8	4.99	TAS	52.2	1.15	m_e	mb	5.7
KAST	85.46	P	02:07:05.393	-0.2	38.8	4.99	TAS	21.8	1.00	m_e	mb	5.3
MOX	84.65	P	02:07:01.366	-0.3	38.8	4.99	TAS	27.2	1.32	m_e	mb	5.3
NEUB	84.16	P	02:06:58.831	0.0	38.8	4.99	TAS	43.8	0.95	m_e	mb	5.7
PLN	84.55	P	02:07:00.897	0.0	38.8	4.99	TAS	8.8	1.37	m_e	mb	4.8
RETH	83.88	P	02:06:57.454	0.3	38.8	4.99	TAS	31.5	1.41	m_e	mb	5.3
RUE	82.38	P	02:06:50.015	-0.0	38.8	4.99	TAS	17.3	0.95	m_e	mb	5.2
STU	87.10	P	02:07:14.469		38.8	4.99	TAS	33.5	1.03	m_e	mb	5.4
TANN	84.48	P	02:07:00.559	0.2	38.8	4.99	TAS	12.0	1.13	m_e	mb	5.0
TNS	86.23	P	02:07:09.255	-0.1	38.8	4.99	TAS	13.2	0.99	m_e	mb	5.0
WET	85.29	P	02:07:04.660	0.5	38.8	4.99	TAS	6.8	1.11	m_e	mb	4.8
WLF	87.56	P	02:07:15.773		38.8	4.99	TAS	34.2	1.39	m_e	mb	5.5

Event 1220006 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
2020/12/20	09:35:49.58			38.9560	142.3430				33.0					81.77	81.77	m i ke	BGR
OrigID 1220012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1220012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	81.77		P	09:48:03.805		36.3		4.29		TAS		11.5	0.85	m_e	mb	5.0

Event 1220008 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/20	17:23:28.15			41.2800	142.3300				60.2	1.1		27		75.06	81.95	m i ke	BGR
OrigID 1220014																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.3		BGR	1220014
MBB	6.7		BGR	1220014
Ms	6.4		BGR	1220014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	77.96		P	17:35:20.222	0.0	35.3		5.47		TAS		261.6	1.28	a_e	MBB	6.8
ASSE	77.96		pP	17:35:36.883	0.3	35.8		5.49		TAS				m_e		
BFO	81.95		P	17:35:41.672	-0.4	35.3		5.47		TAS		421.3	1.43	a_e	MBB	6.8
BFO	81.95		pP	17:35:58.442		35.8		5.49		TAS				m_e		
BRG	77.76		P	17:35:19.122	-0.1	35.3		5.47		TAS		181.1	1.20	m_e	MBB	6.7
BRG	77.76		pP	17:35:35.826	-0.6	35.8		5.49		TAS				m_e		
BSEG	76.60		P	17:35:12.822	0.1	35.3		5.47		TAS		415.2	1.18	a_e	MBB	6.9
BSEG	76.60		pP	17:35:29.643	0.1	35.8		5.49		TAS				m_e		
BUG	79.71		P	17:35:29.522	-0.2	35.3		5.47		TAS		419.4	1.34	a_e	MBB	6.6
BUG	79.71		pP	17:35:46.472	0.3	35.8		5.49		TAS				m_e		
CLL	77.77		P	17:35:18.822	-0.4	35.3		5.47		TAS		260.7	1.08	a_e	MBB	6.7
CLL	77.77		pP	17:35:35.306	0.1	35.8		5.49		TAS				m_e		
CLZ	78.30		P	17:35:22.422	0.3	35.3		5.47		TAS		598.2	1.42	a_e	MBB	6.8
CLZ	78.30		pP	17:35:39.166	-0.3	35.8		5.49		TAS				m_e		
FLT1	77.59		P	17:35:17.672	-0.6	35.3		5.47		TAS		326.7	1.09	a_e	MBB	6.8
FLT1	77.59		pP	17:35:34.527	0.0	35.8		5.49		TAS				m_e		
FUR	80.98		P	17:35:36.872	0.1	35.3		5.47		TAS		423.5	1.12	a_e	MBB	6.8
FUR	80.98		pP	17:35:53.657	-0.2	35.8		5.49		TAS				m_e		
GEC2	79.48		P	17:35:28.522	-0.0	35.3		5.47		TAS		156.4	1.19	a_e	MBB	6.6
GEC2	79.48		pP	17:35:45.113	0.1	35.8		5.49		TAS				m_e		
GOR1	77.03		P	17:35:15.472	0.3	35.3		5.47		TAS		690.4	1.44	a_e	MBB	7.0
GRA1	79.75		S	17:45:34.142						T__				m_e		
GRA1	79.75		P	17:35:30.472	0.4	35.3		5.47		TAS		477.1	1.16	a_e	MBB	6.8
GRA1	79.75		pP	17:35:47.001	0.0	35.8		5.49		TAS				m_e		
GRA1	79.75		L	18:13:57.631						T__		12930.2	20.00	a_e	Ms	6.3
GTTG	78.69		P	17:35:24.322	0.1	35.3		5.47		TAS		261.9	1.13	a_e	MBB	6.7
GTTG	78.69		pP	17:35:41.178	0.2	35.8		5.49		TAS				m_e		
HLG	77.20		P	17:35:16.184	0.2	35.3		5.47		TAS		373.7	1.00	m_e	MBB	6.9
HLG	77.20		pP	17:35:33.024	-0.4	35.8		5.49		TAS				m_e		
IBBN	78.82		P	17:35:24.822	-0.0	35.3		5.47		TAS		362.7	1.12	a_e	MBB	6.8
IBBN	78.82		pP	17:35:41.718	0.0	35.8		5.49		TAS				m_e		
KAST	79.51		P	17:35:28.772	0.1	35.3		5.47		TAS		200.5	1.21	a_e	MBB	6.4
KAST	79.51		pP	17:35:45.632	0.4	35.8		5.49		TAS				m_e		
MOX	78.83		S	17:45:23.294						T__				m_e		
MOX	78.83		P	17:35:25.022	0.0	35.3		5.47		TAS		210.1	1.22	a_e	MBB	6.6
MOX	78.83		pP	17:35:41.695	-0.0	35.8		5.49		TAS				m_e		
MOX	78.83		L	18:15:40.415						T__		23368.1	18.80	a_e	Ms	6.5
NEUB	78.32		P	17:35:22.022	-0.2	35.3		5.47		TAS		329.0	1.11	a_e	MBB	6.8
NEUB	78.32		pP	17:35:38.612	0.2	35.8		5.49		TAS				m_e		
PLN	78.75		P	17:35:24.772	0.2	35.3		5.47		TAS		77.5	1.36	a_e	MBB	6.2
PLN	78.75		pP	17:35:41.387	0.0	35.8		5.49		TAS				m_e		
RETH	77.91		P	17:35:20.072	0.1	35.3		5.47		TAS		587.3	1.55	a_e	MBB	6.8
RETH	77.91		pP	17:35:36.824	-0.1	35.8		5.49		TAS				m_e		
RGN	75.06		P	17:35:04.122	-0.2	35.3		5.47		TAS		843.2	1.31	a_e	MBB	7.0
RGN	75.06		pP	17:35:20.882	-0.2	35.8		5.49		TAS				m_e		
RUE	76.55		P	17:35:12.372	-0.2	35.3		5.47		TAS		658.9	1.39	a_e	MBB	7.0
RUE	76.55		pP	17:35:29.096	-0.1	35.8		5.49		TAS				m_e		

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STU	81.26	P	17:35:38.072	-0.3	35.3	5.47	TAS	837.1	1.22	a_e	MBB	7.0
STU	81.26	pP	17:35:54.911	-0.1	35.8	5.49	TAS			m_e		
TANN	78.70	P	17:35:24.422	0.1	35.3	5.47	TAS	220.3	1.54	a_e	MBB	6.6
TANN	78.70	pP	17:35:41.096	0.1	35.8	5.49	TAS			m_e		
TNS	80.32	P	17:35:33.172	0.0	35.3	5.47	TAS	226.0	1.27	a_e	MBB	6.5
TNS	80.32	pP	17:35:49.980	0.2	35.8	5.49	TAS			m_e		
WET	79.56	P	17:35:29.422	0.4	35.3	5.47	TAS	313.8	1.24	a_e	MBB	6.6
WET	79.56	pP	17:35:46.006	-0.1	35.8	5.49	TAS			m_e		
WLF	81.59	P	17:35:40.122	0.0	35.3	5.47	TAS	351.7	1.53	a_e	MBB	6.7
WLF	81.59	pP	17:35:56.778	-0.4	35.8	5.49	TAS			m_e		

Event 1220009 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/20	20:43:48.30			-19.1600	167.6000				10.0					144.15	144.15	m i ke	NEIC
	1220104																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	144.15		PKPbc	21:03:24.272		49.3		3.43		TAS					m_e

Event 1220011 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/20	22:48:30.78			-20.6500	-178.5040				500.0				23	146.09	151.44	m i ke	BGR
	1220017																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	147.78		PKPbc	23:07:18.767	0.3	18.4		2.48		TAS					m_e
BRG	148.28		PKPbc	23:07:20.333	0.2	18.4		2.48		TAS					m_e
BSEG	146.09		PKPbc	23:07:14.350	-0.1	18.4		2.48		TAS					m_e
BUG	148.94		PKPbc	23:07:22.666	-0.1	18.4		2.48		TAS					m_e
CLL	148.10		PKPbc	23:07:19.798	-0.2	18.4		2.48		TAS					m_e
CLZ	148.11		PKPbc	23:07:20.041	0.1	18.4		2.48		TAS					m_e
FLT1	147.49		PKPbc	23:07:17.932	0.1	18.4		2.48		TAS					m_e
FUR	151.44		PKPbc	23:07:27.544		18.4		2.48		TAS					m_e
GEC2	150.21		PKPbc	23:07:24.912	-0.4	18.4		2.48		TAS					m_e
GOR1	146.84		PKPbc	23:07:16.553	-0.2	18.4		2.48		TAS					m_e
GTTG	148.46		PKPbc	23:07:20.783	0.2	18.4		2.48		TAS					m_e
IBBN	148.03		PKPbc	23:07:19.554	0.2	18.4		2.48		TAS					m_e

KAST	149.03	PKPbc	23:07:22.102	-0.1	18.4	2.48	TAS	m_e
MOX	149.02	PKPbc	23:07:22.110	0.3	18.4	2.48	TAS	m_e
NEUB	148.47	PKPbc	23:07:20.789	0.2	18.4	2.48	TAS	m_e
PLN	149.06	PKPbc	23:07:22.231	0.6	18.4	2.48	TAS	m_e
RETH	147.40	PKPbc	23:07:17.893	-0.1	18.4	2.48	TAS	m_e
RUE	146.83	PKPbc	23:07:16.439	-0.2	18.4	2.48	TAS	m_e
STU	151.27	PKPbc	23:07:27.385		18.4	2.48	TAS	m_e
TANN	149.06	PKPbc	23:07:22.321	-0.0	18.4	2.48	TAS	m_e
TNS	149.98	PKPbc	23:07:24.334	-0.0	18.4	2.48	TAS	m_e
WET	150.15	PKPbc	23:07:24.703	-0.2	18.4	2.48	TAS	m_e
WLF	150.81	PKPbc	23:07:26.754		18.4	2.48	TAS	m_e

Event 1221006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/21	17:08:54.90			-16.6300	-177.4400				2.0			12		145.07	148.03	m i ke	EMSC
	1221038																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	1221012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.03		PKPbc	17:28:41.992		13.9		3.13		TAS					m_e
BUG	145.07		PKPbc	17:28:33.557		13.9		3.13		TAS					m_e
BUG	145.07		PKPab	17:28:36.117		13.7		3.53		TAS					m_e
FUR	147.75		PKPbc	17:28:41.573		13.9		3.13		TAS					m_e
GEC2	146.61		PKPbc	17:28:38.067		13.9		3.13		TAS					m_e
GEC2	146.61		PKPab	17:28:41.639		13.7		3.53		TAS					m_e
GRA1	146.28		PKPbc	17:28:37.434		13.9		3.13		TAS					m_e
GRA1	146.28		PKPab	17:28:41.156		13.7		3.53		TAS					m_e
GRA1	146.28		L	18:38:27.367						T__		641.1	19.90	a_e Ms	5.4
KAST	145.19		PKPbc	17:28:33.215		13.9		3.13		TAS					m_e
KAST	145.19		PKPab	17:28:36.780		13.7		3.53		TAS					m_e
MOX	145.30		PKPbc	17:28:33.640		13.9		3.13		TAS					m_e
MOX	145.30		PKPab	17:28:37.166		13.7		3.53		TAS					m_e
MOX	145.30		L	18:35:06.547						T__		548.1	20.80	a_e Ms	5.3
PLN	145.35		PKPbc	17:28:33.788		13.9		3.13		TAS					m_e
PLN	145.35		PKPab	17:28:37.387		13.7		3.53		TAS					m_e
TANN	145.37		PKPbc	17:28:33.989		13.9		3.13		TAS					m_e
TANN	145.37		PKPab	17:28:37.663		13.7		3.53		TAS					m_e
TNS	146.16		PKPbc	17:28:36.739		13.9		3.13		TAS					m_e
TNS	146.16		PKPab	17:28:40.312		13.7		3.53		TAS					m_e
WET	146.50		PKPbc	17:28:38.151		13.9		3.13		TAS					m_e
WET	146.50		PKPab	17:28:41.474		13.7		3.53		TAS					m_e
WLF	146.92		PKPbc	17:28:39.276		13.9		3.13		TAS					m_e

Event 1222005 Northwest of Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/22	18:24:47.70			28.9270	126.9630				33.0					83.19	83.19	m i ke	BGR
OrigID 1222011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1222011
Ms	5.0		BGR	1222011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	83.19		P	18:37:09.703		59.6		4.87		TAS		12.5	1.16	m_e	mb	5.0
GRA1	83.19		L	19:18:38.144						T__		535.8	18.20	a_e	Ms	5.0

Event 1223001 Luzon, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/23	18:11:47.70			6.2700	133.6300				10.0					104.59	105.28	m i ke	NEIC
OrigID 1223040																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	1223007
Ms	5.9		BGR	1223007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	105.28		P	18:25:54.803		65.3		4.55		TAS		19.8	1.34	m_e	mb	5.9
GRA1	105.28		L	19:17:47.683						T__		3336.3	18.30	a_e	Ms	5.9
MOX	104.59		L	19:16:56.051						T__		3445.4	18.20	a_e	Ms	5.9

Event 1224002 Mindoro, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2020/12/24	23:43:28.100			13.6210	121.5340				33.0					26	89.78	95.33	m i ke	BGR
OrigID 1224008																		

Magnitude	Err	Nsta	Author	OrigID
mb	6.3		BGR	1224008
MBB	6.7		BGR	1224008
Ms	5.7		BGR	1224008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	91.67		P	23:56:33.012	0.3	65.8		4.61		TAS		540.0	2.15	m_e	MBB 6.8
BFO	94.67		P	23:56:46.406		65.8		4.61		TAS		186.7	1.72	m_e	MBB 6.7
BRG	90.29		P	23:56:26.190	-0.7	65.8		4.61		TAS		219.0	1.45	m_e	MBB 6.7
BSEG	91.11		P	23:56:29.652	-0.2	65.8		4.61		TAS		74.6	1.09	m_e	MBB 6.6
BUG	93.87		P	23:56:42.426	0.0	65.8		4.61		TAS		147.0	1.48	m_e	MBB 6.6
CLL	90.68		P	23:56:27.232	0.5	65.8		4.61		TAS		228.4	1.59	m_e	MBB 6.6
CLZ	91.96		P	23:56:34.650	0.2	65.8		4.61		TAS		363.4	1.80	m_e	MBB 6.8
FLT1	91.27		P	23:56:30.459	1.0	65.8		4.61		TAS		284.9	1.89	m_e	MBB 6.7
FUR	92.96		P	23:56:38.443	-0.6	65.8		4.61		TAS		570.4	1.75	m_e	MBB 7.0
GEC2	91.20		P	23:56:30.240	-0.3	65.8		4.61		TAS		238.3	1.56	m_e	MBB 6.7
GOR1	90.96		P	23:56:29.773	-0.3	65.8		4.61		TAS		464.5	1.87	m_e	MBB 6.9
GRA1	92.36		P	23:56:35.780	-0.2	65.8		4.61		TAS		369.6	1.82	m_e	mb 6.4
GRA1	92.36		L	00:42:25.256						T__		3410.5	21.60	a_e	Ms 5.8
GTTG	92.32		P	23:56:36.044	-0.1	65.8		4.61		TAS		222.2	1.54	m_e	MBB 6.7
IBBN	93.21		P	23:56:39.456	-0.2	65.8		4.61		TAS		285.0	1.58	m_e	MBB 6.8
KAST	93.34		P	23:56:39.653	-0.3	65.8		4.61		TAS		285.5	1.94	m_e	MBB 6.8
MOX	91.74		P	23:56:33.255	0.7	65.8		4.61		TAS		254.1	1.73	m_e	MBB 6.7
MOX	91.74		L	00:38:19.182						T__		2901.4	21.70	a_e	Ms 5.7
NEUB	91.43		P	23:56:30.674	-0.2	65.8		4.61		TAS		340.0	1.73	m_e	MBB 6.8
PLN	91.49		P	23:56:31.565	0.0	65.8		4.61		TAS		98.7	1.72	m_e	MBB 6.3
RETH	92.14		P	23:56:34.982	0.5	65.8		4.61		TAS		239.6	1.83	m_e	MBB 6.7
RUE	89.78		P	23:56:23.685	-0.0	65.8		4.61		TAS		237.2	1.18	m_e	MBB 6.8
STU	93.96		P	23:56:43.556	0.1	65.8		4.61		TAS		655.3	1.70	m_e	MBB 7.0
TANN	91.34		P	23:56:32.057	-0.8	65.8		4.61		TAS		186.4	1.60	m_e	MBB 6.6
TNS	93.76		P	23:56:42.002	-0.3	65.8		4.61		TAS		225.7	1.68	m_e	MBB 6.7
UBR	93.87		P	23:56:42.467	0.4	65.8		4.61		TAS		322.3	1.61	m_e	MBB 6.8
WET	91.59		P	23:56:32.217	0.4	65.8		4.61		TAS		343.7	1.83	m_e	MBB 6.8
WLF	95.33		P	23:56:49.564		65.8		4.61		TAS		156.2	1.32	m_e	MBB 6.8

Event 1226001 Tajikistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/26	10:28:41.56			40.8710	71.4490				21.3					41.82	42.25	m i ke	BGR
	1226007																

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1226007
Ms	4.4		BGR	1226007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	42.25		P	10:36:32.368		84.5		6.95		TAS		29.8	0.97	m_e	mb 5.0
GRA1	42.25		pP	10:36:38.233		84.4		7.11		TAS				m_e	
GRA1	42.25		L	10:54:38.673						T__		334.9	19.80	a_e	Ms 4.2
MOX	41.82		L	10:56:16.840						T__		687.9	20.20	a_e	Ms 4.5

Event 1227002 New Ireland, Papua New Guinea, region
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/27 02:32:08.30 -4.6100 153.1900 60.0 124.79 124.79 m i ke EMSC
 1227034

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	124.79		PKPdf	02:51:01.238		48.4		1.13		TAS		35.8	0.86	m_e	

Event 1227003 Turkey
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/27 06:37:29.95 37.8650 39.5720 33.0 17 21.67 26.64 m i ke BGR
 1227009

Magnitude Err Nsta Author OrigID

mb	5.3		BGR	1227009
Ms	4.7		BGR	1227009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	24.94		P	06:42:50.428		109.5		9.80		TAS		57.9	1.27	m_e mb	5.2
BRG	22.33		P	06:42:24.569	-0.1	109.5		9.80		TAS		99.0	1.32	m_e mb	5.1
CLL	23.05		P	06:42:31.835	0.2	109.5		9.80		TAS		184.0	1.71	m_e mb	5.3
CLZ	24.77		P	06:42:49.231		109.5		9.80		TAS		32.5	0.89	m_e mb	5.1
FLT1	24.48		P	06:42:44.924	0.3	109.5		9.80		TAS		34.6	1.01	m_e mb	4.8
FUR	22.99		P	06:42:31.845	0.6	109.5		9.80		TAS		210.2	0.89	m_e mb	5.7
GEC2	21.67		P	06:42:18.005	-0.8	109.5		9.80		TAS		197.3	1.45	m_e mb	5.3
GRA1	23.49		P	06:42:36.743	0.2	109.5		9.80		TAS		209.1	0.99	m_e mb	5.6
GRA1	23.49		L	06:47:10.256						T__		2428.5	20.70	a_e Ms	4.6
KAST	25.68		P	06:42:58.409		109.5		9.80		TAS		53.4	1.06	m_e mb	5.1
MOX	23.59		P	06:42:37.608	0.8	109.5		9.80		TAS		173.8	2.02	m_e mb	5.2
MOX	23.59		L	06:53:46.358						T__		3081.2	19.50	a_e Ms	4.8
PLN	23.21		P	06:42:33.596	0.1	109.5		9.80		TAS		175.2	2.42	m_e mb	5.2
STU	24.49		P	06:42:46.092	0.0	109.5		9.80		TAS		689.6	1.94	m_e mb	5.8
TANN	23.00		P	06:42:31.850	0.2	109.5		9.80		TAS		63.9	1.25	m_e mb	5.0
TNS	25.36		P	06:42:54.913		109.5		9.80		TAS		118.0	1.57	m_e mb	5.4
UBR	23.62		P	06:42:37.806	-0.2	109.5		9.80		TAS		1177.4	2.62	m_e mb	6.0
WET	22.29		P	06:42:23.864	-0.9	109.5		9.80		TAS		324.7	1.90	m_e mb	5.4
WLF	26.64		P	06:43:05.906		109.5		9.80		TAS		67.5	1.10	m_e mb	5.3

Event 1227005 Near coast of Peru
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/27 07:11:11.40 -16.0600 -74.3500 44.0 99.26 99.73 m i ke EMSC
 1227037

Magnitude Err Nsta Author OrigID
 Ms 5.4 BGR 1227011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	99.26		Pdiff	07:24:48.446		256.2		5.36		TAS				m_e	
GRA1	99.26		L	08:05:16.680						T__		1134.9	21.80	a_e Ms	5.3
MOX	99.73		L	08:09:49.280						T__		1536.5	19.90	a_e Ms	5.5

Event 1227007 Off coast of central Chile
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/27 21:39:14.70 -39.3400 -74.9900 10.0 116.54 117.23 m i ke NEIC
 1227046

Magnitude Err Nsta Author OrigID
 Ms 6.6 BGR 1227013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	116.54		PKPdf	21:57:59.258		221.9		2.37		TAS				m_e	
GRA1	116.54		L	22:50:32.036						T__		13747.5	20.10	a_e Ms	6.6
MOX	117.23		L	22:43:30.337						T__		14099.8	21.40	a_e Ms	6.5

Event 1228001 Northwestern Balkan Peninsula
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/28 05:28:08.85 0.40 0.74 45.5420 16.2860 5.6 4.4 35 10.0 33 248 1.55 8.51 m i ke BGR
 1228007

Magnitude Err Nsta Author OrigID
 ML 5.2 BGR 1228007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	1.79		Sg	05:29:06.641	1.0					T__				m_e	
ARSA	1.79		Pn	05:28:39.902	0.2					T__				m_e ML	4.6
BFO	6.12		Pn	05:29:37.721	-0.9					T__				m_e	

BIOA		Pn	05:28:53.917	-0.1	T__	m_e ML	5.0
BRG	5.56	Pn	05:29:31.408	0.4	T__	m_e ML	5.2
BUG	8.40	Pn	05:30:10.270	0.8	T__	m_e	
CLL	6.17	Pn	05:29:39.475	0.2	T__	m_e	
DAVA	4.76	Pn	05:29:20.865	0.6	T__	m_e ML	5.3
FETA		Pn	05:29:12.781	1.1	T__	m_e ML	5.1
FUR	4.32	Sn	05:30:03.217	-0.4	T__	m_e	
FUR	4.32	Sg	05:30:25.365	-0.8	T__	m_e	
FUR	4.32	Pn	05:29:14.169	-0.2	T__	m_e ML	5.6
GEC2	3.74	Sn	05:29:49.502	-0.4	T__	m_e	
GEC2	3.74	Pn	05:29:07.163	0.6	T__	m_e ML	5.2
GOR1	8.13	Pn	05:30:05.396	-0.4	T__	m_e	
GRA1	5.38	Pn	05:29:27.918	-0.7	T__	m_e ML	5.6
GTTG	7.33	Pn	05:29:55.713	0.8	T__	m_e	
KAST	7.71	Pn	05:30:00.353	0.2	T__	m_e	
KBA	2.55	Sg	05:29:29.584	-0.3	T__	m_e	
KBA	2.55	Pn	05:28:49.900	-0.6	T__	m_e ML	4.9
LESA		Sn	05:29:35.655	0.5	T__	m_e	
LESA		Pn	05:28:57.964	-0.2	T__	m_e ML	5.0
MOA	2.69	Sn	05:29:24.708	-0.2	T__	m_e	
MOA	2.69	Pn	05:28:52.879	0.5	T__	m_e ML	5.0
MOTA		Pn	05:29:09.768	-0.4	T__	m_e ML	5.1
MOX	5.99	Sg	05:31:20.852	1.9	T__	m_e	
MOX	5.99	Pn	05:29:36.533	-0.3	T__	m_e	
OBKA	1.55	Sg	05:28:58.434	0.3	T__	m_e	
OBKA	1.55	Pn	05:28:36.200	-0.2	T__	m_e	
PLN	5.67	Sn	05:30:33.878	-1.7	T__	m_e	
PLN	5.67	Pn	05:29:32.695	0.2	T__	m_e ML	5.0
PSZ		Pn	05:29:00.876	-1.5	T__	m_e ML	5.1
RETA		Pn	05:29:13.892	0.1	T__	m_e ML	5.2
RETH	8.51	Pn	05:30:11.923	1.1	T__	m_e	
SOP		Pn	05:28:44.941	0.2	T__	m_e	
SQTA		Pn	05:29:09.227	0.7	T__	m_e ML	5.2
STU	5.82	Sn	05:30:37.616	-1.4	T__	m_e	
STU	5.82	Pn	05:29:33.598	-0.9	T__	m_e ML	5.5
TANN	5.51	Pn	05:29:30.666	0.3	T__	m_e ML	5.4
TNS	7.05	Pn	05:29:51.369	0.2	T__	m_e	
UBR	4.76	Pn	05:29:20.389	0.1	T__	m_e ML	5.4
WET	4.28	Sn	05:30:01.039	-1.6	T__	m_e	
WET	4.28	Pn	05:29:13.806	-0.0	T__	m_e ML	5.4
WLF	7.99	Pn	05:30:04.518	0.6	T__	m_e	
WTTA	3.65	Sn	05:29:47.716	0.1	T__	m_e	
WTTA	3.65	Pn	05:29:05.921	0.7	T__	m_e ML	5.2

OrigID
 2020/12/28 05:46:46.80 14.1500 56.8400 10.0 51.29 51.51 m i ke EMSC
 1228034

Magnitude Err Nsta Author OrigID
 mb 4.9 BGR 1228008
 Ms 4.4 BGR 1228008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	51.29		P	05:55:49.133		117.3		8.81		TAS		14.2	0.91	m_e	mb 4.9
GRA1	51.29		L	06:20:17.098						T__		390.2	19.90	a_e	Ms 4.4
MOX	51.51		L	06:19:08.167						T__		377.2	20.10	a_e	Ms 4.4

Event 1228003 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/28	06:49:57.81	0.40	0.60	45.4570	16.3290	4.4	3.3	154	10.0				41 247	1.63	8.07	m i ke	BGR

OrigID
1228009

Magnitude Err Nsta Author OrigID
 ML 4.6 BGR 1228009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	1.88		Pn	06:50:28.562	-0.2					T__				m_e	ML 4.2
BFO	6.19		Pn	06:51:26.627	-1.4					T__				m_e	
BIOA			Sn	06:51:17.622	1.7					T__				m_e	
BIOA			Pn	06:50:42.978	0.1					T__				m_e	ML 4.6
BRG	5.65		Sn	06:52:20.708	-0.5					T__				m_e	
BRG	5.65		Pn	06:51:20.246	-0.4					T__				m_e	
BUD			Pn	06:50:39.538	-1.2					T__				m_e	ML 5.0
CKRC			Sn	06:51:32.695	-0.6					T__				m_e	
CKRC			Pn	06:50:53.510	0.6					T__				m_e	ML 4.8
CLL	6.26		Pn	06:51:28.661	-0.3					T__				m_e	
DAVA	4.82		Pn	06:51:09.589	0.3					T__				m_e	ML 4.8
DPC	4.90		Pn	06:51:10.336	-0.0					T__				m_e	ML 4.9
FETA			Pn	06:51:01.485	0.9					T__				m_e	ML 4.5
FUR	4.40		Pn	06:51:02.743	-0.7					T__				m_e	ML 5.1
GEC2	3.83		Sn	06:51:38.709	0.7					T__				m_e	
GEC2	3.83		Pn	06:50:56.035	0.4					T__				m_e	ML 4.7
GRA1	5.47		Pn	06:51:17.372	-0.7					T__				m_e	ML 5.1
JAVC			Pn	06:50:52.588	1.2					T__				m_e	ML 4.4
KAST	7.80		Sn	06:53:11.746	-0.6					T__				m_e	
KAST	7.80		Pn	06:51:50.339	0.2					T__				m_e	
KBA	2.63		Pn	06:50:38.851	-0.3					T__				m_e	ML 4.5
KHC	4.12		Sn	06:51:45.308	0.4					T__				m_e	
KHC	4.12		Pn	06:51:00.171	0.5					T__				m_e	ML 4.6

KRUC		Sn	06:51:32.695	0.1	T__	m_e		
KRUC		Pn	06:50:52.746	0.2	T__	m_e ML	4.3	
LESA		Sn	06:51:22.831	-0.1	T__	m_e		
LESA		Pn	06:50:46.881	-0.1	T__	m_e ML	4.5	
MOA	2.78	Sn	06:51:13.412	0.4	T__	m_e		
MOA	2.78	Pn	06:50:41.626	0.4	T__	m_e ML	4.5	
MORC	4.40	Sn	06:51:51.394	-0.1	T__	m_e		
MORC	4.40	Pn	06:51:04.523	1.1	T__	m_e ML	4.9	
MOTA		Pn	06:50:59.412	0.4	T__	m_e ML	4.6	
MOX	6.08	Sn	06:52:31.481	0.1	T__	m_e		
MOX	6.08	Pn	06:51:25.924	-0.5	T__	m_e		
NKC	5.45	Sn	06:52:15.684	-0.7	T__	m_e		
NKC	5.45	Pn	06:51:17.776	-0.0	T__	m_e ML	5.1	
OBKA	1.63	Sn	06:50:45.213	-0.3	T__	m_e		
OBKA	1.63	Pn	06:50:24.923	-0.4	T__	m_e		
OKC	4.55	Sn	06:51:55.605	0.5	T__	m_e		
OKC	4.55	Pn	06:51:06.167	0.6	T__	m_e ML	4.1	
PLN	5.76	Sn	06:52:22.580	-1.2	T__	m_e		
PLN	5.76	Pn	06:51:22.449	0.3	T__	m_e		
PLONS	5.08	Pn	06:51:12.411	-0.3	T__	m_e ML	4.5	
PSZ		Pn	06:50:49.808	-0.9	T__	m_e ML	4.7	
RETA		Pn	06:51:02.963	0.2	T__	m_e ML	4.7	
SOP		Sn	06:50:59.376	-0.5	T__	m_e		
SOP		Pn	06:50:33.696	0.0	T__	m_e ML	4.6	
SQTA		Pn	06:50:58.436	1.0	T__	m_e ML	4.6	
TANN	5.60	Sn	06:52:19.575	-0.5	T__	m_e		
TANN	5.60	Pn	06:51:19.674	-0.2	T__	m_e		
TNS	7.13	Pn	06:51:40.702	-0.2	T__	m_e		
TREC		Pn	06:50:57.170	0.8	T__	m_e ML	4.6	
UBR	4.83	Pn	06:51:08.998	-0.4	T__	m_e ML	4.9	
VRAC		Pn	06:50:56.043	0.1	T__	m_e ML	3.8	
WET	4.37	Sn	06:51:51.075	0.3	T__	m_e		
WET	4.37	Pn	06:51:02.753	-0.3	T__	m_e ML	4.8	
WILA	5.49	Pn	06:51:18.204	-0.2	T__	m_e		
WLF	8.07	Pn	06:51:53.964	0.2	T__	m_e		
WTTA	3.72	Pn	06:50:54.147	0.1	T__	m_e ML	4.7	

Event 1229002 East of Lake Baykal, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/29	00:31:52.90			56.1700	114.1100				10.0					55.79	56.68	m i ke	EMSC
	1229034																

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1229008
Ms	4.0		BGR	1229008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	56.68		P	00:41:36.265		40.7		6.10		TAS		12.7	0.94	m_e	mb 4.9
GRA1	56.68		L	01:08:02.389						T__		287.1	19.50	a_e	Ms 4.4
MOX	55.79		L	01:09:45.889						T__		63.8	21.00	a_e	Ms 3.7

Event 1229003 Off coast of Oregon, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/29	07:10:31.23			43.5600	-127.4200				17.9					79.63	80.34	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1229009
Ms	5.2		BGR	1229009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	80.34		P	07:22:39.886		335.9		4.83		TAS		22.6	0.94	m_e	mb 5.1
GRA1	80.34		pP	07:22:45.060						T__		22.6	0.94	m_e	
GRA1	80.34		L	07:56:40.563						T__		1014.3	21.30	a_e	Ms 5.1
MOX	79.63		L	07:58:58.697						T__		1346.0	19.10	a_e	Ms 5.3

Event 1229005 Crete, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/29	08:06:10.10			34.7400	24.0700				10.0					17.67	17.67	m i ke	NEIC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	17.67		P	08:10:17.959						T__				m_e	

Event 1229001 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2020/12/29	11:19:56.48	0.31	0.78	45.4430	16.2950	4.4	3.3	11	10.0					61	199	1.62	10.29 m i ke	BGR

Magnitude Err Nsta Author OrigID

ML	6.5	BGR	1229007													
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	1.89		Sn	11:20:50.861	0.7					T__				m_e		
ARSA	1.89		Pn	11:20:26.779	-1.0					T__				m_e	ML	5.8
ASSE	7.65		Pn	11:21:45.986	0.5					T__				m_e		
BALST	6.24		Pn	11:21:26.211	-0.3					T__				m_e		
BFO	6.18		Pn	11:21:24.796	-0.8					T__				m_e		
BIOA			Sn	11:21:12.448	-1.5					T__				m_e		
BIOA			Pn	11:20:40.754	-0.7					T__				m_e	ML	6.4
BRG	5.66		Pn	11:21:18.274	-0.4					T__				m_e		
BSEG	9.34		Pn	11:22:08.710	0.6					T__				m_e		
BUD			Pn	11:20:38.154	-1.6					T__				m_e	ML	6.7
BUG	8.48		Pn	11:21:57.012	0.3					T__				m_e		
CKRC			Sn	11:21:32.393	1.2					T__				m_e		
CKRC			Pn	11:20:51.314	-0.1					T__				m_e	ML	6.7
CLL	6.26		Pn	11:21:26.347	-0.5					T__				m_e		
CLZ	7.51		Pn	11:21:43.615	0.1					T__				m_e		
DAVA	4.81		Pn	11:21:07.525	0.3					T__				m_e	ML	6.8
DPC	4.92		Pn	11:21:08.097	-0.6					T__				m_e	ML	6.8
FETA			Sn	11:21:44.287	0.7					T__				m_e		
FETA			Pn	11:20:59.047	0.4					T__				m_e	ML	6.4
FLT1	7.65		Pn	11:21:46.018	0.5					T__				m_e		
FUR	4.39		Sn	11:21:50.040	1.3					T__				m_e		
FUR	4.39		Pn	11:21:01.168	-0.4					T__				m_e	ML	6.9
GEC2	3.84		Sn	11:21:35.362	-0.4					T__				m_e		
GEC2	3.84		Pn	11:20:54.034	-0.1					T__				m_e	ML	6.4
GOR1	8.23		Pn	11:21:53.940	0.7					T__				m_e		
GRA1	5.46		Sn	11:22:13.389	-0.4					T__				m_e		
GRA1	5.46		Pn	11:21:15.188	-0.8					T__				m_e	ML	6.9
GTTG	7.41		Pn	11:21:42.590	0.3					T__				m_e		
HLG	10.29		Pn	11:22:22.602	1.6					T__				m_e		
IBBN	8.87		Pn	11:22:03.233	1.3					T__				m_e		
JAVC			Pn	11:20:50.062	-0.1					T__				m_e	ML	6.5
KAST	7.79		Pn	11:21:47.299	-0.1					T__				m_e		
KBA	2.62		Pn	11:20:36.836	-0.9					T__				m_e	ML	6.2
KHC	4.13		Sn	11:21:43.528	1.0					T__				m_e		
KHC	4.13		Pn	11:20:57.898	-0.1					T__				m_e	ML	6.4
KRUC			Pn	11:20:50.585	-0.6					T__				m_e	ML	6.2
LESA			Sn	11:21:19.719	-1.0					T__				m_e		
LESA			Pn	11:20:44.875	-0.5					T__				m_e	ML	6.3
MLR			Pn	11:21:36.131	2.2					T__				m_e		
MOA	2.78		Sn	11:21:11.293	0.1					T__				m_e		
MOA	2.78		Pn	11:20:39.435	-0.5					T__				m_e	ML	6.4
MORC	4.42		Pn	11:21:01.785	-0.1					T__				m_e	ML	6.7
MOTA			Pn	11:20:57.721	0.5					T__				m_e	ML	6.5
MOX	6.08		Sn	11:22:27.878	-0.2					T__				m_e		
MOX	6.08		Pn	11:21:23.849	-0.4					T__				m_e		
NEUB	6.50		Pn	11:21:30.408	0.5					T__				m_e		

NKC	5.45	Sn	11:22:15.332	1.9	T__	m_e		
NKC	5.45	Pn	11:21:15.050	-0.8	T__	m_e ML	6.9	
OBKA	1.62	Sn	11:20:43.657	-0.3	T__	m_e		
OBKA	1.62	Pn	11:20:22.898	-1.3	T__	m_e		
OKC	4.57	Pn	11:21:04.071	0.1	T__	m_e ML	6.1	
PLN	5.76	Sn	11:22:20.819	0.1	T__	m_e		
PLN	5.76	Pn	11:21:19.815	-0.2	T__	m_e		
PLONS	5.06	Pn	11:21:11.181	0.6	T__	m_e ML	6.4	
PSZ		Pn	11:20:47.858	-1.8	T__	m_e ML	6.5	
PVCC	5.22	Pn	11:21:12.761	0.0	T__	m_e ML	7.0	
RETA		Pn	11:21:01.013	0.2	T__	m_e ML	6.7	
RETH	8.60	Pn	11:21:59.650	1.4	T__	m_e		
RGN	9.31	Pn	11:22:07.909	0.1	T__	m_e		
RUE	7.23	Pn	11:21:39.887	0.1	T__	m_e		
SLE	5.86	Sn	11:22:22.662	-0.3	T__	m_e		
SLE	5.86	Pn	11:21:20.560	-0.8	T__	m_e		
SOP		Pn	11:20:31.858	-0.8	T__	m_e ML	6.3	
SQTA		Pn	11:20:56.383	0.8	T__	m_e ML	6.5	
STU	5.88	Sn	11:22:23.124	-0.4	T__	m_e		
STU	5.88	Pn	11:21:20.528	-1.1	T__	m_e		
SULZ	6.02	Pn	11:21:23.202	-0.4	T__	m_e		
TANN	5.60	Sn	11:22:17.583	0.6	T__	m_e		
TANN	5.60	Pn	11:21:17.649	-0.2	T__	m_e		
TIRR		Pn	11:22:00.746	1.8	T__	m_e		
TNS	7.12	Sn	11:22:52.393	-0.1	T__	m_e		
TNS	7.12	Pn	11:21:37.822	-0.6	T__	m_e		
TREC		Pn	11:20:54.797	-0.1	T__	m_e ML	6.5	
UBR	4.82	Sn	11:21:59.083	0.3	T__	m_e		
UBR	4.82	Pn	11:21:07.294	-0.1	T__	m_e ML	6.9	
VRAC		Pn	11:20:53.963	-0.6	T__	m_e ML	5.7	
WET	4.37	Sn	11:21:48.853	0.6	T__	m_e		
WET	4.37	Pn	11:21:00.611	-0.7	T__	m_e ML	6.6	
WILA	5.47	Pn	11:21:16.246	0.1	T__	m_e		
WLF	8.05	Pn	11:21:51.056	0.1	T__	m_e		
WTTA	3.70	Sn	11:21:33.361	0.7	T__	m_e		
WTTA	3.70	Pn	11:20:52.806	0.5	T__	m_e ML	6.5	

Event 1229007 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/29	12:34:44.09	0.48	0.49	45.3970	16.2840	4.4	2.2	160	10.0				36 248	1.64	7.82	m i ke	BGR
	1229013																

Magnitude	Err	Nsta	Author	OrigID
ML	4.2		BGR	1229013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	1.93		Pn	12:35:15.317	-0.7					T__				m_e	ML 3.8
BALST	6.25		Pn	12:36:14.469	0.2					T__				m_e	
BFO	6.19		Pn	12:36:12.935	-0.5					T__				m_e	
BIOA			Pn	12:35:29.260	-0.3					T__				m_e	ML 4.0
BRG	5.70		Pn	12:36:06.870	0.1					T__				m_e	
BUD			Sn	12:35:59.630	0.1					T__				m_e	
BUD			Pn	12:35:27.009	-0.9					T__				m_e	ML 4.7
CKRC			Pn	12:35:39.904	0.3					T__				m_e	ML 4.4
CLL	6.31		Pn	12:36:14.808	-0.2					T__				m_e	
DAVA	4.82		Pn	12:35:56.149	1.2					T__				m_e	ML 4.4
DPC	4.97		Pn	12:35:56.912	-0.0					T__				m_e	ML 4.6
GEC2	3.87		Sn	12:36:24.349	0.1					T__				m_e	ML 4.2
GRA1	5.50		Sn	12:37:01.930	-0.2					T__				m_e	
GRA1	5.50		Pn	12:36:03.631	-0.4					T__				m_e	ML 4.5
JAVC			Pn	12:35:38.666	0.3					T__				m_e	ML 4.2
KAST	7.82		Pn	12:36:35.067	-0.3					T__				m_e	
KBA	2.64		Pn	12:35:25.220	-0.4					T__				m_e	ML 3.8
KHC	4.16		Sn	12:36:31.035	-0.0					T__				m_e	
KHC	4.16		Pn	12:35:46.485	0.3					T__				m_e	ML 4.1
KRUC			Sn	12:36:19.179	-0.3					T__				m_e	
KRUC			Pn	12:35:39.215	-0.2					T__				m_e	ML 4.0
LESA			Pn	12:35:33.253	-0.1					T__				m_e	ML 4.0
MOA	2.82		Sn	12:35:58.944	-0.7					T__				m_e	
MOA	2.82		Pn	12:35:28.263	0.3					T__				m_e	ML 4.0
MORC	4.46		Sn	12:36:38.995	0.9					T__				m_e	
MORC	4.46		Pn	12:35:50.729	0.6					T__				m_e	ML 4.6
MOX	6.11		Sn	12:37:16.894	0.3					T__				m_e	
MOX	6.11		Pn	12:36:12.068	-0.3					T__				m_e	
NKC	5.48		Pn	12:36:03.707	-0.2					T__				m_e	ML 4.6
OBKA	1.64		Pn	12:35:11.387	-0.8					T__				m_e	
OKC	4.62		Sn	12:36:41.786	0.1					T__				m_e	
OKC	4.62		Pn	12:35:52.716	0.5					T__				m_e	ML 3.7
PLONS	5.07		Sn	12:36:51.818	-0.3					T__				m_e	
PLONS	5.07		Pn	12:35:59.388	1.1					T__				m_e	ML 4.0
PSZ			Sn	12:36:16.864	0.4					T__				m_e	
PSZ			Pn	12:35:36.723	-1.0					T__				m_e	ML 4.5
PVCC	5.26		Pn	12:36:01.632	0.7					T__				m_e	ML 4.8
SLE	5.87		Pn	12:36:08.985	-0.1					T__				m_e	
SOP			Pn	12:35:20.557	-0.4					T__				m_e	
SULZ	6.03		Pn	12:36:11.259	-0.1					T__				m_e	
TANN	5.64		Pn	12:36:06.091	0.1					T__				m_e	
TREC			Pn	12:35:43.392	0.3					T__				m_e	ML 4.1
UBR	4.83		Pn	12:35:55.562	0.4					T__				m_e	ML 4.4
VRAC			Pn	12:35:42.738	-0.1					T__				m_e	ML 3.4
WET	4.41		Pn	12:35:48.874	-0.5					T__				m_e	ML 4.1
WILA	5.49		Pn	12:36:04.737	0.8					T__				m_e	ML 4.5

Event 1229008 Northern Italy
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2020/12/29 14:37:01.92 0.47 0.64 45.4930 11.1200 5.6 4.4 169 10.0 26 256 1.81 6.37 m i ke BGR
 1229014

Magnitude Err Nsta Author OrigID
 ML 4.4 BGR 1229014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	3.42		Sn	14:38:31.462	-0.1					T__				m_e	
BFO	3.42		Pn	14:37:53.158	-0.8					T__				m_e ML	4.5
BIOA			Pn	14:37:45.807	0.2					T__				m_e ML	4.3
BRG	5.70		Pn	14:38:24.050	-0.7					T__				m_e ML	4.4
CLL	5.95		Pn	14:38:28.128	0.1					T__				m_e ML	4.7
CLZ	6.37		Pn	14:38:33.118	-0.6					T__				m_e ML	4.7
DAVA	1.99		Pn	14:37:35.605	1.0					T__				m_e ML	4.3
FETA			Pn	14:37:29.297	0.6					T__				m_e ML	3.9
FUR	2.67		Sg	14:38:27.312	0.6					T__				m_e	
FUR	2.67		Pn	14:37:43.634	-0.2					T__				m_e ML	4.7
GEC2	3.79		Pn	14:37:58.331	-0.6					T__				m_e ML	4.3
GRA1	4.20		Pn	14:38:03.121	-1.4					T__				m_e ML	4.8
GTTG	6.11		Pn	14:38:28.892	-1.2					T__				m_e ML	4.9
KAST	5.99		Pn	14:38:28.814	0.2					T__				m_e ML	4.6
LESA			Pn	14:37:38.619	1.0					T__				m_e ML	4.0
MOTA			Pn	14:37:33.654	0.9					T__				m_e ML	4.0
OBKA	2.60		Sg	14:38:24.550	0.2					T__				m_e	
PLN	5.05		Sg	14:39:41.468	-0.5					T__				m_e ML	4.0
PLONS	1.97		Pn	14:37:35.068	0.7					T__				m_e ML	3.9
RETA			Pn	14:37:35.930	1.0					T__				m_e ML	3.9
SQTA			Sg	14:37:56.734	-0.1					T__				m_e	
SQTA			Pn	14:37:31.528	0.4					T__				m_e ML	4.4
STU	3.53		Pn	14:37:54.921	-0.5					T__				m_e ML	4.8
TANN	5.01		Pn	14:38:14.901	-0.4					T__				m_e ML	4.5
TNS	5.06		Pn	14:38:16.008	-0.1					T__				m_e ML	4.7
UBR	2.30		Pn	14:37:39.051	0.3					T__				m_e ML	4.6
WET	3.84		Pn	14:37:58.898	-0.7					T__				m_e ML	4.3
WILA	2.46		Sn	14:38:09.257	0.3					T__				m_e	
WILA	2.46		Pn	14:37:40.481	-0.5					T__				m_e ML	4.7
WTTA	1.81		Sg	14:37:59.308	0.0					T__				m_e	
WTTA	1.81		Pn	14:37:33.088	0.9					T__				m_e ML	4.2

Event 1229012 Central Mid-Atlantic Ridge
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author

OrigID
 2020/12/29 23:34:53.100 -0.6930 -21.6740 10.0 57.58 58.47 m i ke BGR
 1229018

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1229018
Ms	4.9		BGR	1229018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	57.58		P	23:44:45.102		217.6		7.34		TAS		21.1	1.15	m_e	mb	5.1
GRA1	57.58		L	00:08:07.718						T__		800.2	21.00	a_e	Ms	4.8
MOX	58.47		L	00:08:23.558						T__		897.2	19.00	a_e	Ms	4.9

Event 1230001 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
 2020/12/30 00:35:28.28 36.7630 140.9360 34.6 2.7 24 79.94 85.35 m i ke BGR
 1230007

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	1230007
Ms	4.4		BGR	1230007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	81.42		P	00:47:39.960	0.4	38.4		5.18		TAS		23.8	0.96	m_e	mb	5.2
BFO	85.35		P	00:48:00.062		38.4		5.18		TAS				m_e	mb	5.8
BFO	85.35		sP	00:48:14.760		38.0		5.14		TAS				m_e		
BRG	81.09		P	00:47:38.242	0.2	38.4		5.18		TAS		35.7	0.95	m_e	mb	5.4
BRG	81.09		sP	00:47:52.814		38.0		5.14		TAS				m_e		
BSEG	80.13		P	00:47:33.315	0.1	38.4		5.18		TAS		70.5	1.00	m_e	mb	5.5
BSEG	80.13		sP	00:47:47.234	0.1	38.0		5.14		TAS				m_e		
BUG	83.24		P	00:47:48.965	-0.3	38.4		5.18		TAS		28.7	0.78	m_e	mb	5.6
CLL	81.14		P	00:47:37.970	-0.4	38.4		5.18		TAS		71.5	0.81	m_e	mb	5.8
CLZ	81.76		P	00:47:42.053	-0.4	38.4		5.18		TAS		62.2	1.01	m_e	mb	5.7
FLT1	81.04		P	00:47:37.469	0.4	38.4		5.18		TAS		66.7	0.82	m_e	mb	5.7
FLT1	81.04		sP	00:47:52.183	0.5	38.0		5.14		TAS				m_e		
FUR	84.29		P	00:47:55.100		38.4		5.18		TAS		76.5	0.74	m_e	mb	6.0
FUR	84.29		sP	00:48:08.809		38.0		5.14		TAS				m_e		
GEC2	82.74		P	00:47:46.740	0.2	38.4		5.18		TAS		40.1	1.21	m_e	mb	5.5
GOR1	80.50		P	00:47:35.416	-0.0	38.4		5.18		TAS		62.4	1.12	m_e	mb	5.5
GRA1	83.11		P	00:47:49.354	-0.2	38.4		5.18		TAS		89.1	0.84	m_e	mb	6.0
GRA1	83.11		sP	00:48:02.359		38.0		5.14		TAS				m_e		
GRA1	83.11		L	01:30:40.835						T__		134.4	18.50	a_e	Ms	4.3
GTTG	82.15		P	00:47:44.094	-0.6	38.4		5.18		TAS		45.6	0.89	m_e	mb	5.6
IBBN	82.36		P	00:47:45.025	0.0	38.4		5.18		TAS		73.5	0.87	m_e	mb	5.8
KAST	83.01		P	00:47:47.855	-0.0	38.4		5.18		TAS		19.0	0.83	m_e	mb	5.4

KAST	83.01	sP	00:48:02.270		38.0	5.14	TAS										m_e	
MOX	82.21	P	00:47:43.696	0.0	38.4	5.18	TAS					21.2	0.75	m_e	mb			5.3
MOX	82.21	L	01:29:29.403				T__					214.5	18.70	a_e	Ms			4.5
NEUB	81.72	P	00:47:41.122	-0.4	38.4	5.18	TAS					79.4	0.91	m_e	mb			5.8
PLN	82.11	P	00:47:43.767	0.1	38.4	5.18	TAS					5.6	0.72	m_e	mb			4.8
RETH	81.43	P	00:47:40.083	0.3	38.4	5.18	TAS					48.4	1.04	m_e	mb			5.5
RETH	81.43	sP	00:47:53.947	0.3	38.0	5.14	TAS										m_e	
RUE	79.94	P	00:47:32.240	-0.5	38.4	5.18	TAS					116.7	1.37	m_e	mb			5.6
STU	84.66	P	00:47:56.588		38.4	5.18	TAS					155.2	0.97	m_e	mb			6.2
STU	84.66	sP	00:48:10.459		38.0	5.14	TAS										m_e	
TANN	82.05	P	00:47:43.266	0.6	38.4	5.18	TAS					13.3	0.85	m_e	mb			5.1
TNS	83.78	P	00:47:52.327	0.3	38.4	5.18	TAS					49.7	1.41	m_e	mb			5.5
WET	82.86	P	00:47:47.743	-0.3	38.4	5.18	TAS					29.3	1.13	m_e	mb			5.4

Event 1230002 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/30	05:15:06.52	0.63	0.51	45.5370	16.1930	6.7	5.6	130	10.0				35 302	1.50	9.22	m i ke	BGR
OrigID 1230008																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.9		BGR	1230008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	1.78		Pn	05:15:36.927	-0.2					T__				m_e	ML 4.3
BALST	6.14		Pn	05:16:36.105	-0.5					T__				m_e	
BFO	6.07		Pn	05:16:34.806	-0.8					T__				m_e	
BIOA			Pn	05:15:51.056	-0.2					T__				m_e	ML 4.7
BRG	5.55		Pn	05:16:28.500	-0.1					T__				m_e	
BSEG	9.22		Pn	05:17:18.898	0.7					T__				m_e	
BUG	8.36		Pn	05:17:07.113	0.5					T__				m_e	
CLL	6.15		Pn	05:16:36.497	-0.2					T__				m_e	
CLZ	7.39		Pn	05:16:53.751	0.3					T__				m_e	
DAVA	4.70		Pn	05:16:18.025	0.9					T__				m_e	ML 5.1
FLT1	7.54		Pn	05:16:56.086	0.6					T__				m_e	
FUR	4.28		Pn	05:16:11.039	-0.3					T__				m_e	ML 5.4
GEC2	3.72		Sn	05:16:46.766	-0.2					T__				m_e	
GEC2	3.72		Pn	05:16:04.155	0.3					T__				m_e	ML 4.9
GRA1	5.35		Pn	05:16:25.188	-0.6					T__				m_e	ML 5.3
KAST	7.68		Pn	05:16:56.877	-0.4					T__				m_e	
KBA	2.50		Pn	05:15:46.956	-0.5					T__				m_e	ML 4.7
LESA			Sn	05:16:32.707	1.0					T__				m_e	
LESA			Pn	05:15:55.002	-0.2					T__				m_e	ML 4.7
MOA	2.67		Sn	05:16:21.830	-0.1					T__				m_e	
MOA	2.67		Pn	05:15:49.727	0.1					T__				m_e	ML 4.6
MOTA			Sn	05:16:51.928	-0.6					T__				m_e	

MOTA		Pn	05:16:07.620	0.6	T__	m_e ML	4.9
MOX	5.96	Pn	05:16:33.787	-0.3	T__	m_e	
NEUB	6.38	Pn	05:16:40.627	0.8	T__	m_e	
OBKA	1.50	Sn	05:15:54.312	0.9	T__	m_e	
OBKA	1.50	Pn	05:15:33.081	-0.3	T__	m_e	
PLN	5.64	Pn	05:16:29.922	0.1	T__	m_e	
PLONS	4.96	Pn	05:16:20.734	0.1	T__	m_e ML	4.6
RETA		Pn	05:16:10.946	0.2	T__	m_e ML	4.8
RUE	7.12	Pn	05:16:49.989	0.2	T__	m_e	
SLE	5.75	Pn	05:16:30.656	-0.6	T__	m_e	
SQTA		Pn	05:16:06.257	0.8	T__	m_e ML	4.8
STU	5.77	Pn	05:16:30.725	-0.8	T__	m_e	
TANN	5.49	Pn	05:16:27.712	-0.0	T__	m_e	
TNS	7.01	Pn	05:16:48.361	0.1	T__	m_e	
UBR	4.71	Pn	05:16:17.096	-0.1	T__	m_e ML	5.2
WET	4.25	Sn	05:16:58.610	-1.0	T__	m_e	
WET	4.25	Pn	05:16:10.823	-0.3	T__	m_e ML	5.0
WILA	5.37	Pn	05:16:26.293	0.1	T__	m_e	
WTTA	3.59	Pn	05:16:02.280	0.1	T__	m_e ML	5.0

Event 1230003 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/12/30	05:26:42.71	0.66	0.56	45.4550	16.2810	7.8	5.6	102	10.0			37	306	1.87	8.58	m i ke	BGR
OrigID 1230009																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.8		BGR	1230009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	1.87		Pn	05:27:13.008	-0.8					T__				m_e ML	4.4
ASSE	7.63		Pn	05:28:32.434	0.9					T__				m_e	
BALST	6.23		Pn	05:28:12.275	-0.3					T__				m_e	
BFO	6.16		Pn	05:28:10.795	-0.9					T__				m_e	
BIOA			Pn	05:27:27.036	-0.5					T__				m_e ML	4.5
BRG	5.64		Pn	05:28:04.551	-0.1					T__				m_e	
BUG	8.47		Pn	05:28:43.084	0.4					T__				m_e	
CLL	6.25		Pn	05:28:12.437	-0.4					T__				m_e	
CLZ	7.49		Pn	05:28:29.058	-0.5					T__				m_e	
DAVA	4.79		Pn	05:27:53.600	0.3					T__				m_e ML	5.1
FETA			Pn	05:27:45.223	0.5					T__				m_e ML	4.6
FLT1	7.64		Pn	05:28:31.880	0.3					T__				m_e	
FUR	4.38		Sn	05:28:34.094	-0.5					T__				m_e	
FUR	4.38		Pn	05:27:47.262	-0.3					T__				m_e ML	5.1
GEC2	3.82		Sn	05:28:21.829	0.2					T__				m_e	
GEC2	3.82		Pn	05:27:40.197	0.1					T__				m_e ML	4.8

GRA1	5.45	Sn	05:28:59.749	0.1	T__	m_e	
GRA1	5.45	Pn	05:28:01.136	-0.9	T__	m_e ML	5.1
GTTG	7.40	Pn	05:28:28.954	0.7	T__	m_e	
KAST	7.78	Pn	05:28:33.829	0.4	T__	m_e	
KBA	2.60	Pn	05:27:23.093	-0.6	T__	m_e ML	4.5
LESA		Pn	05:27:31.006	-0.4	T__	m_e ML	4.5
MOA	2.77	Sn	05:27:57.969	0.9	T__	m_e	
MOA	2.77	Pn	05:27:25.791	-0.1	T__	m_e ML	4.7
MOTA		Pn	05:27:43.625	0.4	T__	m_e ML	4.8
MOX	6.06	Pn	05:28:09.854	-0.5	T__	m_e	
NEUB	6.48	Pn	05:28:16.490	0.5	T__	m_e	
PLN	5.74	Sn	05:29:06.000	-0.6	T__	m_e	
PLN	5.74	Pn	05:28:06.478	0.4	T__	m_e	
PLONS	5.04	Pn	05:27:57.204	0.6	T__	m_e ML	4.6
RETA		Pn	05:27:46.962	0.1	T__	m_e ML	4.7
RETH	8.58	Pn	05:28:45.411	1.1	T__	m_e	
SLE	5.84	Pn	05:28:06.651	-0.7	T__	m_e	
SQTA		Pn	05:27:42.391	0.8	T__	m_e ML	4.8
STU	5.86	Pn	05:28:06.747	-0.9	T__	m_e	
SULZ	6.01	Pn	05:28:09.417	-0.2	T__	m_e	
TANN	5.59	Sn	05:29:02.841	-0.1	T__	m_e	
TANN	5.59	Pn	05:28:03.761	-0.2	T__	m_e	
UBR	4.80	Pn	05:27:53.320	-0.1	T__	m_e ML	5.1
WET	4.36	Sn	05:28:34.260	0.1	T__	m_e	
WET	4.36	Pn	05:27:46.916	-0.4	T__	m_e ML	4.8
WILA	5.46	Pn	05:28:02.391	0.1	T__	m_e	
WLF	8.04	Pn	05:28:38.165	1.2	T__	m_e	
WTTA	3.69	Pn	05:27:38.477	0.1	T__	m_e ML	4.8