

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

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

October 2020          UPDATED 18.March 2022

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

Event	Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
1001004 Andreanof Islands, Aleutian Islands, United States	2020/10/01	10:25:06.75			51.2610	-177.4190				33.0			22		74.84	81.09	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1001010
Ms	4.7		BGR	1001010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	76.63		P	10:36:52.894	-0.3	5.5		5.49		TAS		32.8	1.16	m_e mb	5.3
BFO	80.53		P	10:37:13.850		5.5		5.49		TAS		13.5	1.02	m_e mb	4.9
BRG	77.65		P	10:36:58.437	0.3	5.5		5.49		TAS		17.7	0.89	m_e mb	5.2
BSEG	74.84		P	10:36:43.121	0.1	5.5		5.49		TAS		36.2	0.84	m_e mb	5.4
BUG	77.46		P	10:36:57.310	-0.1	5.5		5.49		TAS				m_e	
CLL	77.29		P	10:36:56.258	-0.1	5.5		5.49		TAS		15.4	0.81	m_e mb	5.2
CLZ	76.93		P	10:36:54.789	-0.2	5.5		5.49		TAS		36.6	0.91	m_e mb	5.5
FLT1	76.39		P	10:36:50.715	-0.1	5.5		5.49		TAS		20.5	0.82	m_e mb	5.3
GEC2	79.69		P	10:37:09.884		5.5		5.49		TAS		10.6	0.90	m_e mb	4.8
GRA1	79.02		P	10:37:06.576		5.5		5.49		TAS		32.6	0.90	m_e mb	5.4
GRA1	79.02		L	11:24:41.763						T__		397.8	21.20	a_e Ms	4.7
GTTG	77.24		P	10:36:56.418	0.2	5.5		5.49		TAS		32.3	0.99	m_e mb	5.4
IBBN	76.58		P	10:36:52.670	0.1	5.5		5.49		TAS		61.6	0.86	m_e mb	5.8
KAST	77.66		P	10:36:58.309	0.3	5.5		5.49		TAS		15.9	1.03	m_e mb	5.1
MOX	78.05		P	10:37:00.584	0.5	5.5		5.49		TAS		16.1	0.92	m_e mb	5.1
MOX	78.05		L	11:16:16.707						T__		346.4	21.00	a_e Ms	4.7
NEUB	77.49		P	10:36:57.791	-0.2	5.5		5.49		TAS		44.8	0.86	m_e mb	5.6
PLN	78.17		P	10:37:01.673	0.2	5.5		5.49		TAS		4.3	1.07	m_e mb	4.5
RETH	76.09		P	10:36:50.074	0.0	5.5		5.49		TAS		22.4	1.12	m_e mb	5.2
TANN	78.22		P	10:37:01.416	0.2	5.5		5.49		TAS		36.8	1.85	m_e mb	5.2

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TNS	78.63	P	10:37:04.206	-0.5	5.5	5.49	TAS										m_e	
UBR	81.09	P	10:37:16.994		5.5	5.49	TAS					18.8	1.18	m_e	mb			5.0
WET	79.45	P	10:37:08.633		5.5	5.49	TAS					14.8	1.20	m_e	mb			4.8
WLF	79.27	P	10:37:07.575	-0.4	5.5	5.49	TAS					26.4	0.88	m_e	mb			5.3

Event 1002005 South Shetland Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/02	10:17:33.20			-62.1340	-57.9020				10.0			11		122.15	126.23	m i ke	NEIC
	1002044																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.3		BGR	1002011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	123.73		PKPdf	10:36:33.919		212.0		1.88		TAS					m_e	
BRG	126.20		PKPdf	10:36:38.467	0.4	212.0		1.88		TAS					m_e	
CLL	126.23		PKPdf	10:36:38.859	-0.6	212.0		1.88		TAS					m_e	
CLZ	125.79		PKPdf	10:36:38.338	0.1	212.0		1.88		TAS					m_e	
GEC2	124.41		PKPdf	10:36:34.853	-0.1	212.0		1.88		TAS					m_e	
GRA1	124.26		PKPdf	10:36:34.476		212.0		1.88		TAS					m_e	
GRA1	124.26		L	11:28:00.468						T__		659.9	20.80	a_e	Ms	5.3
MOA	123.78		PKPdf	10:36:33.703		212.0		1.88		TAS					m_e	
MOX	125.20		PKPdf	10:36:36.135		212.0		1.88		TAS					m_e	
MOX	125.20		L	11:29:43.497						T__		653.8	20.40	a_e	Ms	5.3
PLN	125.25		PKPdf	10:36:36.830		212.0		1.88		TAS					m_e	
SQTA	122.15		PKPdf	10:36:31.194		212.0		1.88		TAS					m_e	
TANN	125.30		PKPdf	10:36:37.085		212.0		1.88		TAS					m_e	

Event 1003002 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/03	09:31:32.56			33.3910	141.0670				52.7			23		82.82	88.24	m i ke	BGR
	1003008																

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	1003008
MBB	6.3		BGR	1003008
Ms	5.5		BGR	1003008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	84.33		P	09:44:00.310	0.2	40.0		4.95		TAS		52.2	1.23	m_e	MBB	6.3
ASSE	84.33		S	09:54:16.722		40.1		8.67		TAS					m_e	

BFO	88.24	P	09:44:19.054		40.0	4.95	TAS	42.4	1.22	m_e	MBB	6.1
BFO	88.24	pP	09:44:34.227	0.7			T__			m_e		
BFO	88.24	S	09:54:43.573		40.1	8.67	TAS			m_e		
BRG	83.95	P	09:43:57.788	0.6	40.0	4.95	TAS	51.5	1.09	m_e	MBB	6.3
BRG	83.95	S	09:54:16.229		40.1	8.67	TAS			m_e		
BSEG	83.08	P	09:43:54.135	0.5	40.0	4.95	TAS	42.1	0.96	m_e	MBB	6.2
BSEG	83.08	S	09:54:10.304		40.1	8.67	TAS			m_e		
BUG	86.18	P	09:44:09.318	-0.1	40.0	4.95	TAS	57.6	0.96	m_e	mb	5.7
BUG	86.18	S	09:54:37.423		40.1	8.67	TAS			m_e		
CLL	84.02	P	09:43:57.861	-0.3	40.0	4.95	TAS	81.5	1.08	m_e	MBB	6.2
CLL	84.02	S	09:54:09.318		40.1	8.67	TAS			m_e		
CLZ	84.67	P	09:44:01.660	-0.6	40.0	4.95	TAS	116.4	1.20	m_e	MBB	6.3
CLZ	84.67	S	09:54:17.215		40.1	8.67	TAS			m_e		
FLT1	83.95	P	09:43:57.630	-0.4	40.0	4.95	TAS	112.0	1.44	m_e	MBB	6.3
FLT1	83.95	S	09:54:09.822		40.1	8.67	TAS			m_e		
GEC2	85.56	P	09:44:05.614		40.0	4.95	TAS	79.1	1.53	m_e	MBB	5.8
GEC2	85.56	S	09:54:29.537		40.1	8.67	TAS			m_e		
GRA1	85.98	P	09:44:08.914	-0.3	40.0	4.95	TAS	105.3	1.12	m_e	mb	5.9
GRA1	85.98	S	09:54:36.194		40.1	8.67	TAS			m_e		
GRA1	85.98	SS	10:00:23.688				T__			m_e		
GRA1	85.98	L	10:26:08.676				T__	1864.1	20.30	a_e	Ms	5.5
GTTG	85.06	P	09:44:03.209	-0.3	40.0	4.95	TAS	67.9	1.00	m_e	MBB	6.2
GTTG	85.06	S	09:54:22.144		40.1	8.67	TAS			m_e		
HLG	83.78	S	09:54:09.822		40.1	8.67	TAS			m_e		
IBBN	85.31	P	09:44:04.440	0.0	40.0	4.95	TAS	85.8	1.03	m_e	MBB	6.3
IBBN	85.31	S	09:54:17.215		40.1	8.67	TAS			m_e		
KAST	85.93	P	09:44:07.611	-0.3	40.0	4.95	TAS	42.6	0.91	m_e	mb	5.6
MOX	85.09	P	09:44:03.467	0.4	40.0	4.95	TAS	100.7	1.48	m_e	MBB	6.3
MOX	85.09	S	09:54:14.258		40.1	8.67	TAS			m_e		
MOX	85.09	SS	10:00:21.293				T__			m_e		
MOX	85.09	L	10:25:31.075				T__	1968.7	21.00	a_e	Ms	5.5
NEUB	84.61	P	09:44:01.303	0.6	40.0	4.95	TAS	100.9	1.05	m_e	MBB	6.4
PLN	84.99	P	09:44:03.785	0.8	40.0	4.95	TAS	31.8	1.48	m_e	mb	5.3
PLN	84.99	S	09:54:17.215		40.1	8.67	TAS			m_e		
RETH	84.37	P	09:44:00.032	-0.5	40.0	4.95	TAS	86.4	1.42	m_e	mb	5.8
RUE	82.82	P	09:43:53.023	0.3	40.0	4.95	TAS	91.4	1.22	m_e	MBB	6.5
RUE	82.82	S	09:54:05.386		40.1	8.67	TAS			m_e		
STU	87.53	P	09:44:16.155		40.0	4.95	TAS	240.0	1.51	m_e	MBB	6.5
STU	87.53	S	09:54:44.817		40.1	8.67	TAS			m_e		
TANN	84.91	P	09:44:03.428	-0.1	40.0	4.95	TAS	83.9	1.59	m_e	MBB	6.3
TANN	84.91	S	09:54:19.186		40.1	8.67	TAS			m_e		
TNS	86.69	P	09:44:11.304	-0.5	40.0	4.95	TAS	86.3	1.49	m_e	MBB	6.2
TNS	86.69	S	09:54:40.874		40.1	8.67	TAS			m_e		
UBR	88.00	S	09:54:51.717		40.1	8.67	TAS			m_e		
WET	85.70	P	09:44:06.671		40.0	4.95	TAS	55.1	1.43	m_e	MBB	6.1
WET	85.70	S	09:54:23.130		40.1	8.67	TAS			m_e		
WLF	88.03	P	09:44:18.717	0.3	40.0	4.95	TAS	106.9	1.45	m_e	MBB	6.2

Event 1004002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/04	09:17:38.77			50.4350	153.1950				33.0			14		72.55	77.10	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1004008
Ms	4.6		BGR	1004008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	76.96		P	09:29:26.047		24.0		5.79		TAS		14.4	0.93	m_e mb	5.1
BRG	73.16		P	09:29:04.236		24.0		5.79		TAS		9.4	1.11	m_e mb	4.8
CLL	73.02		P	09:29:03.690	-0.5	24.0		5.79		TAS		30.0	1.20	m_e mb	5.3
CLZ	73.21		P	09:29:04.695	-0.2	24.0		5.79		TAS		51.4	1.49	m_e mb	5.4
FLT1	72.55		P	09:29:00.937	0.0	24.0		5.79		TAS		23.7	1.17	m_e mb	5.2
GEC2	75.06		P	09:29:15.542		24.0		5.79		TAS		6.2	0.73	m_e mb	4.7
GRA1	74.97		P	09:29:15.772		24.0		5.79		TAS		40.9	1.08	m_e mb	5.4
GRA1	74.97		L	10:07:04.404						T__		329.0	20.20	a_e Ms	4.6
KAST	74.28		P	09:29:10.866	-0.3	24.0		5.79		TAS		18.0	0.88	m_e mb	5.1
MOX	73.99		P	09:29:09.199		24.0		5.79		TAS		26.2	1.32	m_e mb	5.1
MOX	73.99		L	10:06:23.653						T__		315.7	20.80	a_e Ms	4.6
PLN	73.99		P	09:29:09.343		24.0		5.79		TAS				m_e	
STU	76.33		P	09:29:23.432		24.0		5.79		TAS		72.6	1.37	m_e mb	5.6
TNS	75.18		P	09:29:16.174		24.0		5.79		TAS		15.2	0.72	m_e mb	5.1
UBR	77.10		P	09:29:27.052		24.0		5.79		TAS		15.0	1.01	m_e mb	5.1
WET	75.01		P	09:29:14.968		24.0		5.79		TAS				m_e	

Event 1004003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/04	23:20:59.96			-19.8930	-173.6090				33.0			24		145.79	152.03	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
Ms	4.6		BGR	1004009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.49		PKPbc	23:40:50.556		9.1		2.57		TAS				m_e	
BRG	148.43		PKPbc	23:40:43.050	0.2	9.1		2.57		TAS				m_e	
BSEG	145.79		PKPbc	23:40:35.815	-0.3	9.1		2.57		TAS				m_e	
BUG	148.42		PKPbc	23:40:42.846	0.0	9.1		2.57		TAS				m_e	
CLL	148.13		PKPbc	23:40:42.258	0.4	9.1		2.57		TAS				m_e	
FLT1	147.32		PKPbc	23:40:39.889	-0.4	9.1		2.57		TAS				m_e	

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FUR	151.43	PKPbc	23:40:50.317	9.1	2.57	TAS	m_e													
GEC2	150.44	PKPbc	23:40:48.287	9.1	2.57	TAS	m_e													
GOR1	146.66	PKPbc	23:40:38.370	-0.3	9.1	2.57	TAS	m_e												
GRA1	149.93	PKPbc	23:40:46.848	-0.4	9.1	2.57	TAS	m_e												
GRA1	149.93	L	00:49:59.518			T__	a_e	Ms	82.7	18.60									4.6	
GTTG	148.20	PKPbc	23:40:42.846	0.4	9.1	2.57	TAS	m_e												
IBBN	147.54	PKPbc	23:40:41.153	0.4	9.1	2.57	TAS	m_e												
KAST	148.62	PKPbc	23:40:43.749	0.2	9.1	2.57	TAS	m_e												
MOX	148.94	PKPbc	23:40:44.723	0.0	9.1	2.57	TAS	m_e												
MOX	148.94	L	00:55:26.569			T__	a_e	Ms	90.2	20.30									4.6	
NEUB	148.39	PKPbc	23:40:43.298	0.3	9.1	2.57	TAS	m_e												
PLN	149.04	PKPbc	23:40:44.723	-0.2	9.1	2.57	TAS	m_e												
RETH	147.05	PKPbc	23:40:39.211	0.2	9.1	2.57	TAS	m_e												
RUE	146.89	PKPbc	23:40:38.760	-0.2	9.1	2.57	TAS	m_e												
STU	151.01	PKPbc	23:40:49.777		9.1	2.57	TAS	m_e												
TANN	149.08	PKPbc	23:40:44.968	0.1	9.1	2.57	TAS	m_e												
TNS	149.60	PKPbc	23:40:46.278	0.1	9.1	2.57	TAS	m_e												
UBR	152.03	PKPbc	23:40:51.945		9.1	2.57	TAS	m_e												
WET	150.27	PKPbc	23:40:47.497	-0.3	9.1	2.57	TAS	m_e												
WLF	150.20	PKPbc	23:40:48.242	-0.4	9.1	2.57	TAS	m_e												

Event 1005002 Kashmir-Xinjiang border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/05	23:43:37.91			36.2480	78.7640				33.0			11		47.64	50.00	m i ke	BGR
OrigID 1005008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1005008
Ms	4.2		BGR	1005008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude					
BRG	47.64		P	23:52:10.151		78.8		7.63		TAS		19.3	1.00	m_e	mb	5.2				
BSEG	49.40		P	23:52:22.080	0.7	78.8		7.63		TAS		38.1	0.77	m_e	mb	5.5				
CLL	48.17		P	23:52:13.741		78.8		7.63		TAS		21.7	1.26	m_e	mb	5.1				
CLZ	49.70		P	23:52:26.018	-0.3	78.8		7.63		TAS		29.9	1.05	m_e	mb	5.2				
FLT1	49.09		P	23:52:20.718	0.1	78.8		7.63		TAS		35.3	0.80	m_e	mb	5.5				
FUR	49.84		P	23:52:26.481		78.8		7.63		TAS		33.0	0.90	m_e	mb	5.3				
GEC2	48.13		P	23:52:13.242		78.8		7.63		TAS		16.2	1.18	m_e	mb	5.0				
GRA1	49.57		P	23:52:25.084		78.8		7.63		TAS		38.9	1.21	m_e	mb	5.2				
GRA1	49.57		L	00:14:35.654						T__		256.5	19.50	a_e	Ms	4.2				
GTTG	50.00		P	23:52:27.226	-0.1	78.8		7.63		TAS				m_e						
MOX	49.14		P	23:52:21.028		78.8		7.63		TAS		14.3	0.82	m_e	mb	5.0				
MOX	49.14		L	00:17:35.981						T__		238.4	19.14	a_e	Ms	4.2				
TANN	48.65		P	23:52:17.670		78.8		7.63		TAS		12.0	1.13	m_e	mb	4.8				

Event 1006001 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/06	05:54:59.39			56.0680	-161.5300				33.0			27		69.54	76.25	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	1006007
MBB	6.2		BGR	1006007
Ms	5.5		BGR	1006007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	71.85		P	06:06:17.077	0.5	355.8		5.84		TAS		155.1	1.12	m_e	MBB 6.3
BFO	75.50		P	06:06:38.830	0.6	355.8		5.84		TAS		59.0	0.87	m_e	MBB 6.2
BRG	73.23		P	06:06:25.181	-0.3	355.8		5.84		TAS		166.2	1.02	m_e	MBB 6.3
BSEG	70.03		P	06:06:06.442	1.2	355.8		5.84		TAS		189.3	1.00	m_e	MBB 6.5
BUG	72.33		P	06:06:19.593	-0.5	355.8		5.84		TAS		211.7	0.97	m_e	MBB 6.4
CLL	72.77		P	06:06:22.373	-0.4	355.8		5.84		TAS		154.9	1.05	m_e	MBB 6.3
CLZ	72.12		P	06:06:19.622	0.0	355.8		5.84		TAS		322.6	1.10	m_e	MBB 6.5
FLT1	71.67		P	06:06:15.877	-0.5	355.8		5.84		TAS		200.0	1.11	m_e	MBB 6.5
FUR	75.83		P	06:06:41.463	-0.6	355.8		5.84		TAS		114.8	0.80	m_e	MBB 6.4
GEC2	75.25		P	06:06:37.396	0.1	355.8		5.84		TAS		296.3	1.71	m_e	MBB 6.0
GOR1	71.02		P	06:06:13.874	-0.1	355.8		5.84		TAS		1.7	1.13	m_e	MBB 4.5
GRA1	74.31		P	06:06:32.526	0.1	355.8		5.84		TAS		100.2	0.81	m_e	mb 5.9
GRA1	74.31		L	06:38:53.239						T__		2663.4	21.70	a_e	Ms 5.5
GTTG	72.39		P	06:06:20.734	-0.7	355.8		5.84		TAS		287.3	1.15	m_e	MBB 6.5
IBBN	71.50		P	06:06:15.789	-0.7	355.8		5.84		TAS		245.4	1.02	m_e	MBB 6.5
KAST	72.64		P	06:06:21.758	0.3	355.8		5.84		TAS		114.8	1.10	m_e	MBB 6.2
MOX	73.37		P	06:06:26.206	-0.3	355.8		5.84		TAS		191.8	1.01	m_e	MBB 6.3
MOX	73.37		L	06:39:03.868						T__		2353.1	22.00	m_e	Ms 5.4
NEUB	72.83		P	06:06:23.572	-0.4	355.8		5.84		TAS		256.5	0.90	m_e	MBB 6.4
PLN	73.56		P	06:06:27.259	-0.1	355.8		5.84		TAS		32.2	0.94	m_e	MBB 5.6
RETH	71.17		P	06:06:13.493	0.5	355.8		5.84		TAS		147.5	1.13	m_e	MBB 6.4
RGN	69.54		P	06:06:04.306	0.3	355.8		5.84		TAS		556.6	1.09	m_e	MBB 6.7
RUE	71.62		P	06:06:16.741	0.3	355.8		5.84		TAS		503.2	1.09	m_e	MBB 6.6
STU	75.11		P	06:06:36.694	-0.0	355.8		5.84		TAS		217.6	0.92	m_e	MBB 6.3
TANN	73.64		P	06:06:27.961	-0.3	355.8		5.84		TAS		80.5	1.12	m_e	MBB 6.2
TNS	73.62		P	06:06:27.551	0.9	355.8		5.84		TAS		128.9	1.03	m_e	MBB 6.2
UBR	76.25		P	06:06:42.751		355.8		5.84		TAS		80.1	0.90	m_e	MBB 6.3
WET	74.92		P	06:06:35.656	-0.0	355.8		5.84		TAS		144.8	1.30	m_e	MBB 6.3
WLF	74.01		P	06:06:30.916	0.6	355.8		5.84		TAS		172.9	1.07	m_e	MBB 6.3

Event 1007002 Leeward Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/07	18:24:34.17			17.1400	-63.5800				33.0			17		64.03	69.04	m i ke	BGR
OrigID 1007008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1007008
Ms	4.2		BGR	1007008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	67.00		P	18:35:24.489	-0.7	269.0		6.38		TAS		67.9	1.20	m_e	mb 5.8
BRG	69.04		P	18:35:37.198	0.0	269.0		6.38		TAS		20.1	1.00	m_e	mb 5.3
BSEG	66.84		P	18:35:23.623	-0.8	269.0		6.38		TAS		19.9	0.93	m_e	mb 5.3
CLL	68.44		P	18:35:33.285	-0.0	269.0		6.38		TAS		22.7	1.01	m_e	mb 5.3
CLZ	66.81		P	18:35:23.044	0.2	269.0		6.38		TAS				m_e	
FLT1	67.35		P	18:35:26.013	-0.1	269.0		6.38		TAS				m_e	
GEC2	68.96		P	18:35:36.422		269.0		6.38		TAS		60.3	1.93	m_e	mb 5.5
GRA1	67.32		P	18:35:26.111		269.0		6.38		TAS		30.1	1.20	m_e	mb 5.4
GRA1	67.32		L	19:00:19.384						T__		116.2	20.20	a_e	Ms 4.1
GTTG	66.54		P	18:35:21.780	-0.0	269.0		6.38		TAS		24.2	1.06	m_e	mb 5.4
IBBN	65.22		P	18:35:12.068	0.5	269.0		6.38		TAS		33.7	0.98	m_e	mb 5.5
KAST	65.56		P	18:35:14.310	0.2	269.0		6.38		TAS				m_e	
MOX	67.57		L	19:02:06.093						T__		152.8	19.10	a_e	Ms 4.2
NEUB	67.67		P	18:35:28.653	0.4	269.0		6.38		TAS		33.8	0.96	m_e	mb 5.5
PLN	67.92		P	18:35:29.898		269.0		6.38		TAS		7.2	1.26	m_e	mb 4.8
RETH	66.22		P	18:35:19.390	0.3	269.0		6.38		TAS		33.8	1.16	m_e	mb 5.5
TANN	68.11		P	18:35:31.193		269.0		6.38		TAS		19.5	1.11	m_e	mb 5.2
TNS	65.54		P	18:35:14.957		269.0		6.38		TAS		32.5	1.08	m_e	mb 5.5
WLF	64.03		P	18:35:05.492		269.0		6.38		TAS		50.2	1.30	m_e	mb 5.6

Event 1008005 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/08	14:22:46.16			53.6540	-169.2710				33.0			22		72.65	78.91	m i ke	BGR
OrigID 1008011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1008011
Ms	4.9		BGR	1008011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	74.46		P	14:34:19.344	-0.1	0.3		5.65		TAS				m_e	
BFO	78.24		P	14:34:40.587		0.3		5.65		TAS		30.8	1.04	m_e	mb 5.4
BRG	75.68		P	14:34:26.487	0.2	0.3		5.65		TAS		30.0	1.05	m_e	mb 5.4
BSEG	72.65		P	14:34:10.019	0.1	0.3		5.65		TAS		37.9	0.93	m_e	mb 5.5
BUG	75.10		P	14:34:23.476	-0.2	0.3		5.65		TAS		37.3	1.08	m_e	mb 5.3

Station	Mag	Err	Nsta	Author	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	75.26	P			14:34:24.245	0.1	0.3		5.65		TAS				m_e	
CLZ	74.74	P			14:34:22.116	-0.1	0.3		5.65		TAS	48.2	0.93		m_e mb	5.5
FLT1	74.25	P			14:34:18.246	0.0	0.3		5.65		TAS	29.7	0.90		m_e mb	5.3
GEC2	77.71	P			14:34:38.108		0.3		5.65		TAS	27.7	1.00		m_e mb	5.3
GRA1	76.90	P			14:34:34.146	-0.4	0.3		5.65		TAS	63.8	1.02		m_e mb	5.7
GRA1	76.90	L			15:15:53.198						T__	761.1	20.90		a_e Ms	5.0
GTTG	75.04	P			14:34:22.918	0.1	0.3		5.65		TAS				m_e	
IBBN	74.25	P			14:34:18.735	-0.2	0.3		5.65		TAS	64.4	1.07		m_e mb	5.6
KAST	75.37	P			14:34:24.854	0.3	0.3		5.65		TAS	28.3	1.10		m_e mb	5.2
MOX	75.94	P			14:34:28.282	0.2	0.3		5.65		TAS	37.0	0.96		m_e mb	5.5
MOX	75.94	L			15:11:13.376						T__	609.9	21.70		a_e Ms	4.9
NEUB	75.39	P			14:34:25.239	0.2	0.3		5.65		TAS	58.5	1.01		m_e mb	5.7
PLN	76.09	P			14:34:29.403	0.5	0.3		5.65		TAS	6.2	0.90		m_e mb	4.7
RETH	73.84	P			14:34:15.583	-0.5	0.3		5.65		TAS	35.2	1.08		m_e mb	5.3
STU	77.81	P			14:34:39.262		0.3		5.65		TAS	76.2	0.86		m_e mb	5.8
TANN	76.16	P			14:34:29.707	-0.1	0.3		5.65		TAS	20.9	1.15		m_e mb	5.2
TNS	76.35	P			14:34:30.669	0.5	0.3		5.65		TAS	21.1	0.83		m_e mb	5.3
UBR	78.91	P			14:34:44.613		0.3		5.65		TAS	48.2	1.17		m_e mb	5.4
WLF	76.85	P			14:34:33.430	-0.6	0.3		5.65		TAS	44.3	1.15		m_e mb	5.5

Event 1008006 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/08	18:24:51.80			52.6900	152.6300				523.0			20		69.09	74.75	m i ke	EMSC
	1008038																

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1008012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	70.67	P		18:35:15.899	-0.6	23.4		5.76		TAS		13.9	0.95	m_e mb	5.1
BFO	74.75	P		18:35:39.020		23.4		5.76		TAS		26.5	0.74	m_e mb	5.3
BRG	70.97	P		18:35:17.019	0.6	23.4		5.76		TAS		9.6	0.69	m_e mb	5.0
BSEG	69.09	P		18:35:07.497	-0.0	23.4		5.76		TAS		26.3	0.82	m_e mb	5.5
BUG	72.10	P		18:35:24.047	-0.1	23.4		5.76		TAS		23.6	0.79	m_e mb	5.4
CLL	70.83	P		18:35:16.076	0.1	23.4		5.76		TAS		43.2	0.63	m_e mb	5.7
CLZ	71.00	P		18:35:18.069	0.1	23.4		5.76		TAS		36.5	0.91	m_e mb	5.5
FLT1	70.34	P		18:35:13.373	-0.1	23.4		5.76		TAS		31.3	1.03	m_e mb	5.4
FUR	74.16	P		18:35:36.072		23.4		5.76		TAS		36.5	0.88	m_e mb	5.4
GEC2	72.88	P		18:35:28.641		23.4		5.76		TAS		18.1	0.61	m_e mb	5.4
GRA1	72.77	P		18:35:28.422		23.4		5.76		TAS		54.9	0.73	m_e mb	5.8
GTTG	71.37	P		18:35:19.896	-0.4	23.4		5.76		TAS		19.5	0.75	m_e mb	5.3
IBBN	71.19	P		18:35:18.872	-0.1	23.4		5.76		TAS		26.5	0.81	m_e mb	5.4
KAST	72.06	P		18:35:24.006	0.1	23.4		5.76		TAS		19.4	0.69	m_e mb	5.3
MOX	71.79	P		18:35:22.162	0.4	23.4		5.76		TAS		16.4	0.65	m_e mb	5.3
PLN	71.80	P		18:35:22.387	-0.1	23.4		5.76		TAS		6.7	0.73	m_e mb	4.9



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RUE	69.56	P	18:35:09.241	0.3	23.4	5.76	TAS	59.3	0.51	m_e	mb	6.0
STU	74.13	P	18:35:35.657		23.4	5.76	TAS	52.2	0.76	m_e	mb	5.6
TANN	71.78	P	18:35:22.262	-0.4	23.4	5.76	TAS	8.6	0.79	m_e	mb	4.9
TNS	72.96	P	18:35:29.139	0.3	23.4	5.76	TAS	37.7	0.67	m_e	mb	5.7

Event 1009003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/09	05:00:53.50			-18.0600	-178.4400				636.0			17		143.47	149.55	m i ke	EMSC
	1009035																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.17		PKPbc	05:19:21.836	0.1	17.3		2.76		TAS				m_e	
BFO	149.22		PKPbc	05:19:32.596		17.3		2.76		TAS				m_e	
BRG	145.73		PKPbc	05:19:23.668	-0.5	17.3		2.76		TAS				m_e	
BSEG	143.47		PKPbc	05:19:16.440	-0.4	17.3		2.76		TAS				m_e	
CLZ	145.49		PKPbc	05:19:23.169	0.1	17.3		2.76		TAS				m_e	
FLT1	144.88		PKPbc	05:19:20.728	0.3	17.3		2.76		TAS				m_e	
GEC2	147.67		PKPbc	05:19:28.888		17.3		2.76		TAS				m_e	
GTTG	145.84		PKPbc	05:19:24.236	0.2	17.3		2.76		TAS				m_e	
KAST	146.40		PKPbc	05:19:25.425	0.4	17.3		2.76		TAS				m_e	
MOX	146.43		PKPbc	05:19:25.472	-0.6	17.3		2.76		TAS				m_e	
NEUB	145.87		PKPbc	05:19:24.114	-0.1	17.3		2.76		TAS				m_e	
PLN	146.47		PKPbc	05:19:25.685		17.3		2.76		TAS				m_e	
RETH	144.77		PKPbc	05:19:20.644	0.4	17.3		2.76		TAS				m_e	
TANN	146.48		PKPbc	05:19:25.904		17.3		2.76		TAS				m_e	
TNS	147.35		PKPbc	05:19:28.178		17.3		2.76		TAS				m_e	
UBR	149.55		PKPbc	05:19:33.389		17.3		2.76		TAS				m_e	
WLF	148.16		PKPbc	05:19:30.759		17.3		2.76		TAS				m_e	

Event 1009004 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/09	21:22:23.40			-17.1900	167.4200				10.0			6		139.19	144.50	m i ke	NEIC
	1009043																

Magnitude Err Nsta Author OrigID  
Ms 5.1 BGR 1009010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	144.50		PKPbc	21:41:58.799		39.1		3.39		TAS				m_e	

BFO	144.50	L	22:47:00.791							T__	230.9	20.50	a_e Ms	4.9
BSEG	139.19	PKPbc	21:41:51.962	39.1	3.39					TAS			m_e	
BSEG	139.19	L	22:42:57.111							T__	523.9	21.40	a_e Ms	5.2
CLL	140.29	L	22:46:01.430							T__	408.6	22.00	a_e Ms	5.1
FLT1	140.17	PKPbc	21:41:53.129	39.1	3.39					TAS			m_e	
FUR	143.42	PKPbc	21:41:55.732	39.1	3.39					TAS			m_e	
FUR	143.42	L	22:48:10.851							T__	383.7	21.60	a_e Ms	5.1
GEC2	141.84	PKPbc	21:41:49.577	39.1	3.39					TAS			m_e	
GEC2	141.84	L	22:45:13.135							T__	406.1	21.70	a_e Ms	5.1
GRA1	142.27	PKPbc	21:41:52.458	39.1	3.39					TAS			m_e	
GRA1	142.27	L	22:45:29.086							T__	373.6	21.50	a_e Ms	5.1
MOX	141.36	L	22:51:54.851							T__	268.4	19.00	a_e Ms	5.0
PLN	141.27	PKPbc	21:41:48.205	39.1	3.39					TAS			m_e	
STU	143.81	PKPbc	21:41:56.692	39.1	3.39					TAS			m_e	
TNS	142.91	PKPbc	21:41:53.254	39.1	3.39					TAS			m_e	
TNS	142.91	L	22:48:32.203							T__	291.4	20.10	a_e Ms	5.0
UBR	144.29	PKPbc	21:41:58.600	39.1	3.39					TAS			m_e	
WLF	144.18	PKPbc	21:41:58.106	39.1	3.39					TAS			m_e	

Event 1010003 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/10	06:41:30.50			52.0100	-169.6800				40.0					74.29	80.55	m i ke	EMSC
	1010035																

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	1010009
Ms	4.1		BGR	1010009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	77.31		P	06:53:21.766		0.6		4.92		TAS		12.0	1.33	m_e mb	4.9
BSEG	74.29		P	06:53:05.797		0.6		4.92		TAS		6.0	0.63	m_e mb	4.8
CLL	76.90		P	06:53:19.149		0.6		4.92		TAS		4.5	0.90	m_e mb	4.6
CLZ	76.39		P	06:53:17.080		0.6		4.92		TAS		9.3	1.14	m_e mb	4.8
GEC2	79.35		P	06:53:33.219		0.6		4.92		TAS		11.4	1.36	m_e mb	4.7
GRA1	78.54		P	06:53:29.159		0.6		4.92		TAS		8.0	1.10	m_e mb	4.7
GRA1	78.54		L	07:31:05.946						T__		92.6	18.60	a_e Ms	4.1
IBBN	75.90		P	06:53:14.136		0.6		4.92		TAS		14.2	0.93	m_e mb	5.1
MOX	77.58		P	06:53:23.513		0.6		4.92		TAS		10.5	1.25	m_e mb	4.8
MOX	77.58		L	07:34:56.667						T__		89.9	18.00	a_e Ms	4.1
TNS	78.00		P	06:53:25.882		0.6		4.92		TAS		6.2	1.08	m_e mb	4.7
UBR	80.55		P	06:53:40.107		0.6		4.92		TAS		4.6	1.07	m_e mb	4.4

Event 1010002 Myanmar-India border region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/10 17:38:00.10 24.6200 93.7100 40.0 64.95 69.03 m i ke EMSC  
 1010034

Magnitude Err Nsta Author OrigID  
 mb 4.7 BGR 1010008  
 Ms 4.5 BGR 1010008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	69.03		L	18:21:59.438						T__		285.3	20.30	a_e	Ms 4.5
BRG	64.95		P	17:48:36.001		78.8		5.19		TAS		4.5	0.83	m_e	mb 4.7
FUR	67.15		L	18:25:17.028						T__		223.1	20.30	a_e	Ms 4.4
GEC2	65.44		P	17:48:39.182		78.8		5.19		TAS		9.5	0.91	m_e	mb 5.0
GEC2	65.44		L	18:20:15.368						T__		334.4	21.10	a_e	Ms 4.5
GRA1	66.88		P	17:48:49.972		78.8		5.19		TAS		4.2	0.78	m_e	mb 4.7
GRA1	66.88		L	18:20:32.871						T__		379.9	21.20	a_e	Ms 4.6
MOX	66.45		L	18:20:19.291						T__		429.4	20.80	a_e	Ms 4.6
PLN	66.14		P	17:48:43.549		78.8		5.19		TAS		1.6	0.96	m_e	mb 4.2
TNS	68.51		L	18:22:26.803						T__		249.0	21.70	a_e	Ms 4.4

Event 1011003 Northern Sumatera, Indonesia  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/11 11:09:09.13 4.1820 96.7480 33.0 15 82.24 86.44 m i ke BGR  
 1011009

Magnitude Err Nsta Author OrigID  
 mb 5.0 BGR 1011009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	84.32		P	11:21:37.453	-0.1	90.7		5.09		TAS		5.8	0.73	m_e	mb 4.9
BFO	85.87		P	11:21:44.983		90.7		5.09		TAS		5.3	1.03	m_e	mb 4.6
BRG	82.24		P	11:21:26.994		90.7		5.09		TAS		5.2	0.90	m_e	mb 4.7
BSEG	84.54		P	11:21:38.855	0.2	90.7		5.09		TAS		17.7	1.14	m_e	mb 5.2
BUG	86.44		P	11:21:48.345	0.5	90.7		5.09		TAS		11.5	0.84	m_e	mb 5.0
CLL	82.85		P	11:21:29.797	0.1	90.7		5.09		TAS		6.3	1.09	m_e	mb 4.8
CLZ	84.50		P	11:21:38.752	0.0	90.7		5.09		TAS		12.1	0.69	m_e	mb 5.2
FLT1	83.97		P	11:21:35.145	-0.3	90.7		5.09		TAS		6.2	0.64	m_e	mb 5.0
GEC2	82.31		P	11:21:27.438		90.7		5.09		TAS		3.9	0.71	m_e	mb 4.6
GRA1	83.95		P	11:21:36.159		90.7		5.09		TAS		11.1	1.00	m_e	mb 5.0
IBBN	86.10		P	11:21:46.888	-0.0	90.7		5.09		TAS		16.1	0.76	m_e	mb 5.2
NEUB	83.62		P	11:21:33.915	-0.4	90.7		5.09		TAS		11.1	0.95	m_e	mb 5.1
PLN	83.36		P	11:21:32.639		90.7		5.09		TAS		1.9	0.98	m_e	mb 4.3
RUE	82.42		P	11:21:27.985	0.3	90.7		5.09		TAS		28.1	0.74	m_e	mb 5.5

STU 85.28 P 11:21:42.645 90.7 5.09 TAS 16.4 0.54 m\_e mb 5.5

Event 1012002 Crete, Greece

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2020/10/12 00:30:45.60 35.1420 24.5010 33.0 15.84 21.25 m i ke BGR
1012008

Magnitude Err Nsta Author OrigID
mb 4.5 BGR 1012008
Ms 4.1 BGR 1012008

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Lists station data for event 1012002.

Event 1012004 Crete, Greece

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2020/10/12 04:11:36.86 35.4290 24.2970 33.0 15.51 20.92 m i ke BGR
1012010

Magnitude Err Nsta Author OrigID
mb 4.8 BGR 1012010

Ms 4.4 BGR 1012010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	19.31		P	04:15:58.541		142.5		12.42		TAS		335.6	2.51	m_e	mb 5.1
BRG	17.15		P	04:15:34.561		142.5		12.42		TAS		28.5	0.87	m_e	mb 4.4
BSEG	20.92		P	04:16:14.003		142.5		12.42		TAS		42.6	0.89	m_e	mb 4.8
CLL	17.83		P	04:15:42.820		142.5		12.42		TAS		142.5	1.57	m_e	mb 4.9
CLZ	19.19		P	04:15:57.438		142.5		12.42		TAS		27.0	0.88	m_e	mb 4.5
FLT1	19.28		P	04:15:57.336		142.5		12.42		TAS		200.0	1.94	m_e	mb 5.0
FUR	15.97		P	04:15:22.754		142.5		12.42		TAS		71.3	0.99	m_e	mb 4.8
GEC2	15.51		P	04:15:15.598		142.5		12.42		TAS		33.3	0.93	m_e	mb 4.5
GRA1	17.16		P	04:15:35.638		142.5		12.42		TAS		283.9	1.76	m_e	mb 5.1
GRA1	17.16		L	04:23:05.933						T__		2337.3	20.40	a_e	Ms 4.4
GTTG	19.11		P	04:15:57.539		142.5		12.42		TAS		100.0	0.90	m_e	mb 5.0
IBBN	20.57		P	04:16:13.195		142.5		12.42		TAS		52.9	0.74	m_e	mb 5.0
KAST	19.47		P	04:16:01.979		142.5		12.42		TAS		30.4	0.98	m_e	mb 4.5
MOX	17.76		P	04:15:42.619		142.5		12.42		TAS		53.6	1.04	m_e	mb 4.6
MOX	17.76		L	04:23:02.348						T__		1987.2	21.00	a_e	Ms 4.3
PLN	17.43		P	04:15:39.163		142.5		12.42		TAS		31.0	1.13	m_e	mb 4.3
RETH	20.28		P	04:16:09.470		142.5		12.42		TAS		183.7	1.45	m_e	mb 5.1
TANN	17.26		P	04:15:36.526		142.5		12.42		TAS		50.4	1.07	m_e	mb 4.6
TNS	18.74		P	04:15:55.318		142.5		12.42		TAS		120.0	1.35	m_e	mb 5.0
UBR	16.17		P	04:15:26.338		142.5		12.42		TAS		65.3	0.92	m_e	mb 4.8

Event 1012005 Off coast of Chiapas, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/12	04:13:55.26			14.4600	-94.3680				33.0					86.65	90.67	m i ke	BGR
OrigID 1012011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1012011
Ms	5.3		BGR	1012011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	87.53		P	04:26:35.405		281.4		5.27		TAS		52.0	2.09	m_e	mb 5.5
BFO	87.53		L	05:05:54.644						T__		979.2	20.00	a_e	Ms 5.2
BRG	90.02		P	04:26:48.297		281.4		5.27		TAS		11.7	1.06	m_e	mb 5.0
BSEG	86.82		L	05:06:42.980						T__		1395.1	19.40	a_e	Ms 5.4
CLL	89.30		P	04:26:45.258		281.4		5.27		TAS		9.1	0.97	m_e	mb 5.0
CLL	89.30		L	05:06:14.599						T__		1284.4	22.00	a_e	Ms 5.3
CLZ	87.58		P	04:26:38.570		281.4		5.27		TAS		183.0	2.55	m_e	mb 6.0
FUR	89.44		L	05:09:33.431						T__		1091.2	18.80	a_e	Ms 5.3
GEC2	90.67		L	05:03:32.607						T__		1652.4	21.70	a_e	Ms 5.4
GRA1	88.85		P	04:26:45.118		281.4		5.27		TAS		110.6	2.16	m_e	mb 5.7
GRA1	88.85		L	05:04:09.724						T__		1249.2	21.30	a_e	Ms 5.3

GTTG	87.44	P	04:26:38.104	281.4	5.27	TAS	27.0	1.24	m_e	mb	5.2
KAST	86.65	P	04:26:32.540	281.4	5.27	TAS	122.6	2.41	m_e	mb	5.6
MOX	88.74	P	04:26:42.553	281.4	5.27	TAS	28.8	1.76	m_e	mb	5.2
MOX	88.74	L	05:06:44.557			T__	1849.8	20.10	a_e	Ms	5.5
RETH	86.69	P	04:26:34.483	281.4	5.27	TAS	35.5	1.15	m_e	mb	5.4
TANN	89.32	P	04:26:45.342	281.4	5.27	TAS	7.5	0.88	m_e	mb	4.9
TNS	86.99	P	04:26:32.732	281.4	5.27	TAS	21.6	0.77	m_e	mb	5.3
TNS	86.99	L	05:01:42.603			T__	1011.9	21.00	a_e	Ms	5.2

Event 1012006 Honduras

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/12	06:06:55.99			15.0370	-88.9500				33.0			15		82.94	86.90	m i k e	BGR
OrigID 1012012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1012012
Ms	4.1		BGR	1012012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	84.04		P	06:19:23.002	-0.1	287.4		5.01		TAS		16.9	1.09	m_e	mb	5.2
BFO	83.65		P	06:19:20.769		287.4		5.01		TAS		18.5	1.31	m_e	mb	5.2
BFO	83.65		L	06:48:47.014						T__		100.9	20.40	a_e	Ms	4.2
BRG	86.37		P	06:19:34.138		287.4		5.01		TAS		4.9	0.96	m_e	mb	4.6
BSEG	83.31		P	06:19:19.208	-0.4	287.4		5.01		TAS		41.1	1.15	m_e	mb	5.5
BSEG	83.31		L	06:47:44.193						T__		94.8	22.00	a_e	Ms	4.1
CLL	85.67		L	06:58:10.565						T__		65.3	18.00	a_e	Ms	4.1
CLZ	83.94		P	06:19:23.002	-0.1	287.4		5.01		TAS		40.9	1.53	m_e	mb	5.4
FLT1	84.31		P	06:19:23.741	-0.4	287.4		5.01		TAS		12.4	1.00	m_e	mb	5.1
FUR	85.58		L	06:49:44.536						T__		65.8	21.10	a_e	Ms	4.0
GEC2	86.90		L	06:51:04.891						T__		76.0	20.30	a_e	Ms	4.1
GRA1	85.09		P	06:19:28.376		287.4		5.01		TAS		65.6	1.80	m_e	mb	5.6
GRA1	85.09		L	06:50:17.805						T__		80.2	20.90	a_e	Ms	4.1
GTTG	83.78		P	06:19:22.141	-0.0	287.4		5.01		TAS		68.6	1.59	m_e	mb	5.6
KAST	82.94		P	06:19:16.426	-0.1	287.4		5.01		TAS		52.0	2.09	m_e	mb	5.4
MOX	85.04		P	06:19:27.792		287.4		5.01		TAS		28.0	1.59	m_e	mb	5.2
MOX	85.04		L	06:49:14.682						T__		78.1	19.80	a_e	Ms	4.1
PLN	85.42		P	06:19:29.695		287.4		5.01		TAS		6.2	1.37	m_e	mb	4.7
RETH	83.09		P	06:19:18.055	0.7	287.4		5.01		TAS		29.3	1.11	m_e	mb	5.4
TANN	85.62		P	06:19:30.772		287.4		5.01		TAS		11.2	1.28	m_e	mb	4.8
TNS	83.22		P	06:19:18.788		287.4		5.01		TAS		13.3	0.87	m_e	mb	5.2
TNS	83.22		L	06:49:09.409						T__		83.6	22.00	a_e	Ms	4.1
UBR	84.98		P	06:19:27.574		287.4		5.01		TAS		16.9	1.31	m_e	mb	5.1

Event 1012007 Iran-Armenia-Azerbaijan border region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/12 11:47:42.21 39.9400 48.0970 33.0 21 25.94 30.93 m i ke BGR  
 1012013

Magnitude Err Nsta Author OrigID  
 mb 4.9 BGR 1012013  
 Ms 3.3 BGR 1012013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	28.35		P	11:53:31.824	0.2	96.5		8.95		TAS		15.5	1.01	m_e	mb 4.8
BFO	29.46		L	12:06:20.427						T__		39.9	20.80	a_e	Ms 3.0
BRG	26.11		P	11:53:13.223	-0.4	96.5		8.95		TAS		22.6	1.01	m_e	mb 4.8
BSEG	28.94		P	11:53:36.600	-0.0	96.5		8.95		TAS		53.8	0.82	m_e	mb 5.4
BSEG	28.94		L	12:10:17.569						T__		146.7	18.00	a_e	Ms 3.6
BUG	30.34		P	11:53:50.436	0.0	96.5		8.95		TAS		19.2	0.80	m_e	mb 5.0
CLL	26.78		P	11:53:18.292	0.1	96.5		8.95		TAS		14.5	0.79	m_e	mb 4.8
CLL	26.78		L	12:09:12.442						T__		66.0	18.60	a_e	Ms 3.2
CLZ	28.49		P	11:53:33.784	-0.3	96.5		8.95		TAS		22.8	0.88	m_e	mb 5.0
FLT1	28.05		P	11:53:29.021	0.0	96.5		8.95		TAS		32.0	0.78	m_e	mb 5.2
FUR	27.48		L	12:07:53.733						T__		90.9	20.70	a_e	Ms 3.3
GEC2	25.94		P	11:53:11.775		96.5		8.95		TAS		8.4	0.86	m_e	mb 4.4
GEC2	25.94		L	12:07:26.330						T__		79.1	21.40	a_e	Ms 3.2
GOR1	28.15		P	11:53:30.420	-0.1	96.5		8.95		TAS		0.3	0.91	m_e	mb 3.1
GRA1	27.65		P	11:53:26.750		96.5		8.95		TAS		13.8	0.87	m_e	mb 4.8
GRA1	27.65		L	12:08:27.337						T__		77.5	21.30	a_e	Ms 3.2
GTTG	28.69		P	11:53:36.004	-0.3	96.5		8.95		TAS		50.0	1.27	m_e	mb 5.2
IBBN	30.15		P	11:53:48.090	-0.6	96.5		8.95		TAS		31.1	0.79	m_e	mb 5.2
KAST	29.60		P	11:53:44.178	0.4	96.5		8.95		TAS		30.8	1.43	m_e	mb 4.9
MOX	27.52		P	11:53:25.504	0.4	96.5		8.95		TAS		15.7	0.93	m_e	mb 4.8
MOX	27.52		L	12:08:57.238						T__		109.5	19.60	a_e	Ms 3.4
NEUB	27.52		P	11:53:25.448	-0.1	96.5		8.95		TAS		54.2	1.01	m_e	mb 5.3
RETH	29.25		P	11:53:40.057	-0.4	96.5		8.95		TAS		14.9	1.03	m_e	mb 4.8
RUE	26.57		P	11:53:15.801	-0.5	96.5		8.95		TAS		35.3	0.58	m_e	mb 5.3
STU	28.90		P	11:53:38.034		96.5		8.95		TAS		129.5	0.91	m_e	mb 5.8
TANN	26.96		P	11:53:20.161	0.3	96.5		8.95		TAS		9.8	1.13	m_e	mb 4.4
TNS	29.48		P	11:53:43.470	0.1	96.5		8.95		TAS		22.6	1.20	m_e	mb 4.9
TNS	29.48		L	12:10:08.991						T__		106.6	20.90	a_e	Ms 3.5
WLF	30.93		P	11:53:56.604		96.5		8.95		TAS		31.8	1.25	m_e	mb 5.1

Event 1013005 Vanuatu Islands  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/12 23:49:46.90 -19.2600 169.4100 200.0 18 142.80 147.15 m i ke EMSC

1013037

Magnitude	Err	Nsta	Author	OrigID
Ms	3.9		BGR	1013011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.15		PKPbc	00:09:05.727		37.7		3.13		TAS				m_e	
BRG	142.92		PKPbc	00:08:52.516	-0.4	37.7		3.13		TAS				m_e	
BUG	144.87		PKPbc	00:08:58.775	0.2	37.7		3.13		TAS				m_e	
CLL	142.96		PKPbc	00:08:52.680	0.4	37.7		3.13		TAS				m_e	
CLZ	143.50		PKPbc	00:08:54.976	0.0	37.7		3.13		TAS				m_e	
FLT1	142.80		PKPbc	00:08:52.598	0.0	37.7		3.13		TAS				m_e	
FUR	146.11		PKPbc	00:09:03.099		37.7		3.13		TAS				m_e	
GEC2	144.55		PKPbc	00:08:58.216		37.7		3.13		TAS				m_e	
GRA1	144.93		PKPbc	00:08:59.701		37.7		3.13		TAS				m_e	
GRA1	144.93		L	01:07:07.443						T__		22.4	21.50	a_e Ms	3.9
GTTG	143.89		PKPbc	00:08:56.223	0.2	37.7		3.13		TAS				m_e	
IBBN	143.97		PKPbc	00:08:56.038	0.0	37.7		3.13		TAS				m_e	
KAST	144.71		PKPbc	00:08:58.551	0.5	37.7		3.13		TAS				m_e	
MOX	144.02		PKPbc	00:08:56.330	-0.3	37.7		3.13		TAS				m_e	
MOX	144.02		L	01:18:06.488						T__		18.3	20.50	a_e Ms	3.8
NEUB	143.52		PKPbc	00:08:54.764	-0.0	37.7		3.13		TAS				m_e	
PLN	143.94		PKPbc	00:08:56.240		37.7		3.13		TAS				m_e	
TANN	143.87		PKPbc	00:08:56.051		37.7		3.13		TAS				m_e	
UBR	146.98		PKPbc	00:09:05.383		37.7		3.13		TAS				m_e	
WLF	146.77		PKPbc	00:09:05.502		37.7		3.13		TAS				m_e	

Event 1014005 Mid-Indian Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/14	15:28:44.07			-9.7230	65.9740				33.0					74.22	79.10	m i ke	BGR
OrigID 1014011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1014011
Ms	3.7		BGR	1014011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	76.91		P	15:40:34.220		124.5		6.62		TAS		13.5	1.08	m_e mb	5.0
BFO	76.91		L	16:11:58.871						T__		48.4	19.20	a_e Ms	3.8
BRG	75.29		P	15:40:25.334		124.5		6.62		TAS		13.9	1.13	m_e mb	4.9
BUG	79.10		P	15:40:46.660		124.5		6.62		TAS		12.7	1.05	m_e mb	4.9
CLL	76.03		L	16:10:30.642						T__		46.0	19.80	a_e Ms	3.8
CLZ	77.68		P	15:40:39.060		124.5		6.62		TAS		22.8	1.03	m_e mb	5.2
GEC2	74.22		P	15:40:17.665		124.5		6.62		TAS		8.7	1.18	m_e mb	4.7
GRA1	76.04		P	15:40:29.195		124.5		6.62		TAS		24.8	0.98	m_e mb	5.3



GRA1	76.04	L	16:14:17.309						T__	29.8	21.60	a_e	Ms	3.6
KAST	78.36	P	15:40:42.844	124.5		6.62			TAS	26.5	1.65	m_e	mb	5.1
MOX	76.37	P	15:40:31.311	124.5		6.62			TAS	17.1	1.17	m_e	mb	5.1
MOX	76.37	L	16:14:14.323						T__	37.4	20.80	a_e	Ms	3.7
TANN	75.79	P	15:40:28.091	124.5		6.62			TAS	23.2	1.52	m_e	mb	5.1
UBBA	77.31	P	15:40:36.662	124.5		6.62			TAS			m_e		
UBR	75.56	P	15:40:26.691	124.5		6.62			TAS	34.0	1.00	m_e	mb	5.4
WET	74.84	P	15:40:20.927	124.5		6.62			TAS	11.5	1.31	m_e	mb	4.7

Event 1014006 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/14	18:37:25.35			-15.6830	-174.6230				33.0			10		141.54	147.76	m i ke	IDCSEL3
	1014044																

Magnitude	Err	Nsta	Author	OrigID
Ms	4.7		BGR	1014012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	147.26		PKPbc	18:57:11.458		10.0		3.00		TAS				m_e		
BFO	147.26		L	19:59:53.017						T__		81.8	21.80	a_e	Ms	4.5
BSEG	141.54		L	19:57:44.735						T__		161.6	20.90	a_e	Ms	4.8
CLL	143.85		L	19:59:13.990						T__		180.4	21.00	a_e	Ms	4.8
FUR	147.15		PKPbc	18:57:11.337		10.0		3.00		TAS				m_e		
FUR	147.15		L	20:02:10.144						T__		141.5	21.90	a_e	Ms	4.7
GEC2	146.14		PKPbc	18:57:08.188		10.0		3.00		TAS				m_e		
GEC2	146.14		L	19:59:10.803						T__		205.1	21.90	a_e	Ms	4.9
GRA1	145.66		PKPbc	18:57:07.276		10.0		3.00		TAS				m_e		
GRA1	145.66		L	20:00:10.821						T__		143.2	21.60	a_e	Ms	4.7
MOX	144.67		PKPbc	18:57:03.465		10.0		3.00		TAS				m_e		
MOX	144.67		L	19:58:57.944						T__		137.5	21.70	a_e	Ms	4.7
PLN	144.76		PKPbc	18:57:03.708		10.0		3.00		TAS				m_e		
TANN	144.79		PKPbc	18:57:04.192		10.0		3.00		TAS				m_e		
TNS	145.36		PKPbc	18:57:05.887		10.0		3.00		TAS				m_e		
TNS	145.36		L	19:58:30.211						T__		163.7	21.20	a_e	Ms	4.8
UBR	147.76		PKPbc	18:57:12.790		10.0		3.00		TAS				m_e		
WET	145.98		PKPbc	18:57:07.946		10.0		3.00		TAS				m_e		
WET	145.98		L	20:01:29.028						T__		189.2	21.40	a_e	Ms	4.8

Event 1015003 Kermadec Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/15	07:00:17.90			-31.4800	-177.5900				10.0					158.63	162.50	m i ke	EMSC

1015035

Magnitude Err Nsta Author OrigID  
 Ms 5.0 BGR 1015009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	162.50		L	08:43:59.832						T__		235.3	18.20	a_e	Ms 5.1
BRG	158.76		PKPab	07:20:50.261		23.3		4.04		TAS				m_e	
BUG	159.65		PKPab	07:20:56.592		23.3		4.04		TAS				m_e	
CLL	158.63		PKPab	07:20:49.377		23.3		4.04		TAS				m_e	
GEC2	160.61		PKPab	07:20:58.218		23.3		4.04		TAS				m_e	
GRA1	160.57		PKPab	07:20:57.526		23.3		4.04		TAS				m_e	
GRA1	160.57		L	08:38:12.975						T__		170.9	19.20	a_e	Ms 4.9
GTTG	159.12		PKPab	07:20:51.993		23.3		4.04		TAS				m_e	
MOX	159.59		L	08:42:38.480						T__		178.7	18.90	a_e	Ms 4.9
WET	160.61		PKPab	07:20:57.860		23.3		4.04		TAS				m_e	

Event 1015004 Southern Sumatera, Indonesia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/15 09:41:17.70 -3.2200 100.4000 28.0 90.25 93.79 m i ke EMSC  
 1015036

Magnitude Err Nsta Author OrigID  
 mb 5.3 BGR 1015010  
 Ms 5.0 BGR 1015010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	93.79		L	10:46:51.378						T__		394.5	19.10	a_e	Ms 4.9
BSEG	92.64		L	10:40:46.283						T__		651.3	21.80	a_e	Ms 5.0
CLL	90.88		L	10:44:32.163						T__		666.9	18.80	a_e	Ms 5.1
FUR	91.82		L	10:48:32.138						T__		556.0	19.40	a_e	Ms 5.0
GEC2	90.25		P	09:54:16.020		92.7		4.06		TAS		14.5	1.19	m_e	mb 5.1
GEC2	90.25		L	10:41:38.265						T__		736.2	21.60	a_e	Ms 5.1
GRA1	91.92		P	09:54:24.349		92.7		4.06		TAS				m_e	
GRA1	91.92		L	10:44:11.543						T__		638.6	19.30	a_e	Ms 5.1
GRA2	91.83		P	09:54:23.444		92.7		4.06		TAS				m_e	
GRB3	91.53		P	09:54:22.486		92.7		4.06		TAS		16.4	0.99	m_e	mb 5.3
MOX	91.71		L	10:43:15.864						T__		672.1	20.80	a_e	Ms 5.1
TNS	93.72		L	10:44:18.150						T__		624.2	20.60	a_e	Ms 5.0
WET	90.81		P	09:54:18.759		92.7		4.06		TAS		40.7	1.80	m_e	mb 5.5
WET	90.81		L	10:45:29.740						T__		636.0	18.80	a_e	Ms 5.1

Event 1016001 Central Mid-Atlantic Ridge  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/16 00:08:18.70 6.8990 -38.0030 10.0 17 56.90 61.97 m i ke BGR  
 1016007

Magnitude Err Nsta Author OrigID  
 mb 5.1 BGR 1016007  
 Ms 4.0 BGR 1016007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	56.90		P	00:18:01.810	0.2	241.0		6.92		TAS		32.7	1.27	m_e	mb 5.2
BRG	61.32		P	00:18:32.725		241.0		6.92		TAS		11.0	1.24	m_e	mb 4.5
BSEG	60.89		P	00:18:28.604		241.0		6.92		TAS		69.3	1.27	m_e	mb 5.3
FLT1	60.54		P	00:18:26.552		241.0		6.92		TAS		28.0	1.21	m_e	mb 5.0
FUR	58.53		P	00:18:13.561	0.6	241.0		6.92		TAS		36.1	1.16	m_e	mb 5.3
GEC2	60.28		P	00:18:24.341		241.0		6.92		TAS		7.7	1.19	m_e	mb 4.6
GRA1	59.23		P	00:18:17.358	-0.1	241.0		6.92		TAS		45.5	1.28	m_e	mb 5.3
GRA1	59.23		L	00:42:36.007						T__		104.0	18.30	a_e	Ms 4.0
IBBN	58.71		P	00:18:14.275	0.0	241.0		6.92		TAS		29.7	1.20	m_e	mb 5.2
KAST	58.46		P	00:18:12.042	-0.6	241.0		6.92		TAS		29.8	1.36	m_e	mb 5.1
MOX	59.91		P	00:18:22.681	0.3	241.0		6.92		TAS		28.8	1.44	m_e	mb 5.1
MOX	59.91		L	00:43:14.977						T__		104.8	18.50	a_e	Ms 4.0
PLN	60.14		P	00:18:24.127		241.0		6.92		TAS		8.4	1.22	m_e	mb 4.6
RETH	59.77		P	00:18:21.950	-0.5	241.0		6.92		TAS		28.5	1.32	m_e	mb 5.1
RUE	61.97		P	00:18:37.299		241.0		6.92		TAS		51.0	1.22	m_e	mb 5.6
TANN	60.27		P	00:18:24.635		241.0		6.92		TAS		33.8	1.39	m_e	mb 5.2
TNS	57.95		P	00:18:08.861	0.6	241.0		6.92		TAS		16.6	1.05	m_e	mb 5.0
UBR	57.61		P	00:18:06.843	-0.2	241.0		6.92		TAS		31.6	1.31	m_e	mb 5.2
WET	59.93		P	00:18:23.334	0.5	241.0		6.92		TAS		8.8	1.12	m_e	mb 4.7

Event 1016003 Afghanistan-Tajikistan border region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/16 10:10:35.86 36.4740 71.1750 220.0 44.56 44.56 m i ke BGR  
 1016009

Magnitude Err Nsta Author OrigID  
 mb 4.8 BGR 1016009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	44.56		P	10:18:44.086		92.3		6.94		TAS		11.7	0.84	m_e	mb 4.8

./bul2010.txt Wed Mar 30 12:17:24 2022 20

Event 1016004 Mindoro, Philippine Islands  
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2020/10/16 20:06:22.97 13.5890 120.9010 33.0 91.37 91.98 m i ke BGR  
1016010

Magnitude Err Nsta Author OrigID  
mb 5.6 BGR 1016010  
Ms 5.2 BGR 1016010

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
GRA1 91.98 P 20:19:28.136 67.1 4.19 TAS 30.9 0.90 m\_e mb 5.6  
GRA1 91.98 L 21:02:51.741 T\_\_ 922.1 18.90 a\_e Ms 5.2  
MOX 91.37 L 21:04:15.879 T\_\_ 602.1 19.60 a\_e Ms 5.0

Event 1017001 Kuril Islands, Russia  
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2020/10/17 04:48:01.42 44.8610 149.2730 33.0 77.91 78.87 m i ke BGR  
1017007

Magnitude Err Nsta Author OrigID  
mb 4.9 BGR 1017007  
Ms 4.4 BGR 1017007

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
GRA1 78.87 P 05:00:00.501 27.8 4.76 TAS 10.7 0.94 m\_e mb 4.9  
GRA1 78.87 L 05:37:32.233 T\_\_ 191.2 20.70 a\_e Ms 4.4  
MOX 77.91 L 05:37:13.450 T\_\_ 211.8 20.00 a\_e Ms 4.5

Event 1018001 Kermadec Islands, New Zealand  
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2020/10/18 03:28:37.20 -29.0300 -178.4200 216.0 158.03 158.03 m i ke EMSC  
1018033

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
GRA1 158.03 PKPab 03:48:42.706 23.1 3.86 TAS m\_e

Event 1018002 Off coast of northern Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/18	06:58:31.03			-3.8610	-82.4590				33.0					95.33	95.57	m i ke	BGR
OrigID 1018008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	1018008
Ms	4.5		BGR	1018008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	95.33		P	07:11:52.037		261.2		5.46		TAS		34.8	1.19	m_e	mb 5.7
GRA1	95.33		L	07:48:20.635						T__		177.3	20.10	a_e	Ms 4.5
MOX	95.57		L	07:53:16.244						T__		182.2	20.60	a_e	Ms 4.5

Event 1019005 Southern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/19	07:31:30.00			-3.2800	100.4000				10.0					91.76	91.97	m i ke	EMSC
OrigID 1019037																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.7		BGR	1019011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	91.97		PcP	07:44:39.416		92.7		4.05		TAS					m_e
GRA1	91.97		L	08:34:19.942						T__		2385.8	19.20	a_e	Ms 5.7
MOX	91.76		L	08:33:33.658						T__		2602.7	20.70	a_e	Ms 5.7

Event 1019008 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/19	09:38:43.67			2.1670	96.7790				10.0					85.27	85.49	m i ke	BGR
OrigID 1019014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1019014
Ms	4.7		BGR	1019014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	85.49		P	09:51:21.852		106.8		4.23		TAS		37.1	1.47	m_e	mb 5.4
GRA1	85.49		L	10:35:52.099						T__		337.3	18.70	a_e	Ms 4.8

MOX 85.27 L 10:34:40.420 T\_\_ 258.7 21.80 a\_e Ms 4.6

Event 1019010 Alaska Peninsula, United States

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2020/10/19 20:54:46.35 55.4570 -160.0850 33.0 25 70.56 76.77 m i ke BGR
1019016

Magnitude Err Nsta Author OrigID
mb 7.4 BGR 1019016
MBB 7.7 BGR 1019016
Ms 7.4 BGR 1019016

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

Event 1019011 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/19	21:45:28.52			54.1930	-159.8460				33.0					75.16	76.08	m i ke	BGR
OrigID 1019017																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	1019017
Ms	6.6		BGR	1019017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	76.08		P	21:57:11.916		351.6		5.16		TAS		53.0	1.01	m_e	mb 5.6
GRA1	76.08		L	22:32:26.146						T__		32266.6	20.90	a_e	Ms 6.6
MOX	75.16		L	22:28:26.202						T__		27075.5	18.60	a_e	Ms 6.6

Event 1020001 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/20	04:07:09.50			53.9870	-161.3350				33.0				24	72.09	78.32	m i ke	BGR
OrigID 1020007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	1020007
Ms	5.1		BGR	1020007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	73.91		P	04:18:40.269	0.3	354.8		5.73		TAS		302.0	2.16	m_e	mb 6.0
BFO	77.55		P	04:19:00.706		354.8		5.73		TAS		23.6	0.94	m_e	mb 5.3
BRG	75.30		P	04:18:48.305	0.2	354.8		5.73		TAS		37.5	1.10	m_e	mb 5.3
BSEG	72.09		P	04:18:29.558	-0.3	354.8		5.73		TAS		303.8	2.02	m_e	mb 6.1
BUG	74.38		P	04:18:42.580	-0.0	354.8		5.73		TAS		398.3	2.13	m_e	mb 6.1
CLL	74.84		P	04:18:44.981	0.0	354.8		5.73		TAS		35.0	1.00	m_e	mb 5.3
CLZ	74.18		P	04:18:41.724	-0.1	354.8		5.73		TAS		236.0	1.77	m_e	mb 5.9
FLT1	73.74		P	04:18:38.849	0.0	354.8		5.73		TAS		199.5	1.88	m_e	mb 5.8
GEC2	77.32		P	04:18:59.969	-0.1	354.8		5.73		TAS		198.3	2.20	m_e	mb 5.9
GRA1	76.37		P	04:18:54.346	-0.5	354.8		5.73		TAS		36.6	0.80	m_e	mb 5.5
GRA1	76.37		L	05:01:50.426						T__		1217.5	18.80	a_e	Ms 5.2
GTTG	74.46		P	04:18:43.584	-0.6	354.8		5.73		TAS		59.8	1.10	m_e	mb 5.6
IBBN	73.56		P	04:18:38.176	0.1	354.8		5.73		TAS		135.0	1.34	m_e	mb 5.8
KAST	74.70		P	04:18:44.516	0.1	354.8		5.73		TAS		162.9	2.00	m_e	mb 5.7
MOX	75.44		P	04:18:49.053	0.1	354.8		5.73		TAS		40.0	0.90	m_e	mb 5.6

MOX	75.44	L	04:58:12.851						T__	839.3	21.70	a_e	Ms	5.0
NEUB	74.90	P	04:18:45.898	0.1	354.8		5.73		TAS	53.4	0.90	m_e	mb	5.6
RETH	73.23	P	04:18:35.907	0.2	354.8		5.73		TAS	277.1	2.26	m_e	mb	6.0
RUE	73.70	P	04:18:39.436	-0.4	354.8		5.73		TAS	199.1	1.36	m_e	mb	6.0
STU	77.17	P	04:18:58.227		354.8		5.73		TAS	85.9	0.90	m_e	mb	5.9
TANN	75.71	P	04:18:50.410	0.1	354.8		5.73		TAS	59.5	1.50	m_e	mb	5.5
TNS	75.68	P	04:18:50.224	0.3	354.8		5.73		TAS	32.4	0.90	m_e	mb	5.5
UBR	78.32	P	04:19:05.211		354.8		5.73		TAS	31.3	1.05	m_e	mb	5.4
WET	76.99	P	04:18:58.204	-0.1	354.8		5.73		TAS	82.5	1.50	m_e	mb	5.6
WLF	76.05	P	04:18:52.503	0.1	354.8		5.73		TAS	67.3	1.2	m_e	mb	5.6

Event 1020003 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/20	08:18:43.42			54.3190	-159.8360				33.0					75.03	75.96	m i ke	BGR
	1020009																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1020009
Ms	4.0		BGR	1020009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	75.96		P	08:30:26.094		352.3		5.16		TAS		27.7	1.23	m_e	mb	5.2
GRA1	75.96		L	08:59:57.902						T__		93.8	18.80	a_e	Ms	4.1
MOX	75.03		L	09:02:33.419						T__		63.5	21.80	a_e	Ms	3.9

Event 1020005 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/20	12:32:12.30			54.4400	-159.8200				20.0					74.91	75.84	m i ke	EMSC
	1020037																

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1020011
Ms	4.7		BGR	1020011



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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	75.84		P	12:43:57.737		354.6		5.18		TAS		16.7	1.04	m_e	mb 5.1
GRA1	75.84		L	13:16:41.311						T__		453.3	21.90	a_e	Ms 4.7
MOX	74.91		L	13:19:15.354						T__		324.5	21.90	a_e	Ms 4.6

Event 1020007 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/20	14:01:21.14		7.1550	-36.5340					10.0					58.19	58.19	m i ke	BGR
OrigID 1020013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1020013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	58.19		P	14:11:12.588		235.9		6.72		TAS		13.1	1.12	m_e	mb 4.9

Event 1020008 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/20	18:57:55.40		-19.4400	-174.1200					35.0					149.43	149.43	m i ke	EMSC
OrigID 1020040																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	149.43		PKP	19:17:41.753		10.0		1.82		TAS				m_e	

Event 1021002 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/21	00:22:34.40		-19.3200	-172.3900					10.0					148.49	149.47	m i ke	EMSC
OrigID 1021034																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.6		BGR	1021008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	149.47		PKPdf	00:42:22.822		10.0		1.69		TAS				m_e	
GRA1	149.47		PKPab	00:42:27.964		17.6		3.77		TAS				m_e	

GRA1	149.47	L	01:50:14.821	T__	1090.3	20.80	a_e	Ms	5.6
MOX	148.49	L	01:52:25.061	T__	885.4	19.60	a_e	Ms	5.6

Event 1021004 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/21	01:18:03.29			54.1130	-159.7600				33.0					76.16	76.16	m i ke	BGR
OrigID 1021010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1021010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	76.16		P	01:29:47.113		350.8		5.14		TAS		14.5	1.24	m_e mb	5.0

Event 1021005 Unimak Island, Alaska, United States, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/21	03:35:27.01			53.0560	-163.6460				33.0					77.40	77.40	m i ke	BGR
OrigID 1021011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1021011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	77.40		P	03:47:17.852		358.6		5.12		TAS		13.5	1.13	m_e mb	5.0

Event 1022001 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/22	03:03:42.33			32.5980	104.3200				16.0	1.2				67.12	67.74	m i ke	BGR
OrigID 1022007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1022007
Ms	4.9		BGR	1022007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	67.74		P	03:14:37.939		70.0		5.72		TAS		28.5	1.27	m_e mb	5.3
GRA1	67.74		pP	03:14:42.108		69.0		5.56		TAS				m_e	

GRA1	67.74	sP	03:14:44.825	T__												m_e
GRA1	67.74	L	03:46:10.333	T__	799.3	19.50	a_e Ms	5.0								
MOX	67.12	L	03:45:16.437	T__	492.4	18.30	a_e Ms	4.8								

Event 1022005 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/22	23:06:32.50			52.7000	-34.9800				10.0					28.55	28.70	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	1022011
Ms	3.8		BGR	1022011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	28.70		P	23:12:36.925		293.9		7.93		TAS		9.5	0.89	m_e mb	4.6
GRA1	28.70		L	23:22:55.917						T__		253.1	19.00	a_e Ms	3.9
MOX	28.55		L	23:21:48.717						T__		267.1	20.60	a_e Ms	3.8

Event 1023003 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/23	07:04:35.49			-24.8900	-179.3100				492.2	8.8		5		150.03	155.99	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	151.68		PKPbc	07:23:33.625	-0.1	22.2		2.11		TAS				m_e	
ASSE	151.68		PKPab	07:23:45.703	-0.3	20.9		4.24		TAS				m_e	
BFO	155.76		PKPab	07:24:03.164	-0.2	20.9		4.24		TAS				m_e	
BFO	155.76		pPKPab	07:25:53.216		32.7		3.97		TAS				m_e	
BRG	152.05		PKPdf	07:23:26.504		53.0		1.77		TAS				m_e	
BRG	152.05		PKPbc	07:23:34.466	-0.1	22.2		2.11		TAS				m_e	
BRG	152.05		PKPab	07:23:47.583	-0.2	20.9		4.24		TAS				m_e	
BSEG	150.03		PKPbc	07:23:30.392	0.0	22.2		2.11		TAS				m_e	
BSEG	150.03		PKPab	07:23:39.230	0.1	20.9		4.24		TAS				m_e	
CLL	151.91		PKPdf	07:23:26.690	0.2	53.0		1.77		TAS				m_e	
CLL	151.91		PKPbc	07:23:33.782	-0.4	22.2		2.11		TAS				m_e	
CLL	151.91		PKPab	07:23:46.686	-0.3	20.9		4.24		TAS				m_e	
CLZ	152.01		PKPbc	07:23:34.844	0.4	22.2		2.11		TAS				m_e	
CLZ	152.01		PKPab	07:23:47.814	0.4	20.9		4.24		TAS				m_e	
FLT1	151.37		PKPbc	07:23:32.947	-0.2	22.2		2.11		TAS				m_e	

FLT1	151.37	PKPab	07:23:44.212	-0.5	20.9	4.24	TAS	m_e
FUR	155.24	PKPab	07:24:01.530	0.3	20.9	4.24	TAS	m_e
GEC2	153.94	PKPdf	07:23:28.920		53.0	1.77	TAS	m_e
GEC2	153.94	PKPbc	07:23:38.477		22.2	2.11	TAS	m_e
GEC2	153.94	PKPab	07:23:55.128	-0.8	20.9	4.24	TAS	m_e
GRA1	153.84	PKPab	07:23:55.746	0.6	20.9	4.24	TAS	m_e
GTTG	152.37	PKPab	07:23:49.281	0.3	20.9	4.24	TAS	m_e
IBBN	152.02	PKPbc	07:23:34.933	0.2	22.2	2.11	TAS	m_e
IBBN	152.02	PKPab	07:23:47.633	-0.2	20.9	4.24	TAS	m_e
IBBN	152.02	pPKPab	07:25:39.382		32.7	3.97	TAS	m_e
KAST	152.98	PKPbc	07:23:36.400	-0.1	22.2	2.11	TAS	m_e
KAST	152.98	PKPab	07:23:51.021	-0.7	20.9	4.24	TAS	m_e
MOX	152.86	PKPbc	07:23:36.377	-0.2	22.2	2.11	TAS	m_e
MOX	152.86	PKPab	07:23:51.005	-0.0	20.9	4.24	TAS	m_e
NEUB	152.32	PKPbc	07:23:35.353	0.3	22.2	2.11	TAS	m_e
NEUB	152.32	PKPab	07:23:49.076	0.4	20.9	4.24	TAS	m_e
PLN	152.88	PKPdf	07:23:28.835		53.0	1.77	TAS	m_e
PLN	152.88	PKPbc	07:23:36.056	-0.3	22.2	2.11	TAS	m_e
PLN	152.88	PKPab	07:23:51.126	0.0	20.9	4.24	TAS	m_e
RETH	151.35	PKPbc	07:23:33.114	-0.1	22.2	2.11	TAS	m_e
RETH	151.35	PKPab	07:23:44.660	-0.1	20.9	4.24	TAS	m_e
RETH	151.35	pPKPab	07:25:37.769	-0.5	32.7	3.97	TAS	m_e
RUE	150.65	PKPbc	07:23:31.573	0.1	22.2	2.11	TAS	m_e
RUE	150.65	PKPab	07:23:42.413	0.7	20.9	4.24	TAS	m_e
STU	155.16	PKPab	07:24:00.714	-0.1	20.9	4.24	TAS	m_e
TANN	152.87	PKPdf	07:23:28.146		53.0	1.77	TAS	m_e
TANN	152.87	PKPbc	07:23:36.752	0.2	22.2	2.11	TAS	m_e
TANN	152.87	PKPab	07:23:51.163	0.1	20.9	4.24	TAS	m_e
TNS	153.92	PKPbc	07:23:38.498		22.2	2.11	TAS	m_e
TNS	153.92	PKPab	07:23:55.612	-0.0	20.9	4.24	TAS	m_e
TNS	153.92	pPKPab	07:25:46.151		32.7	3.97	TAS	m_e
UBR	155.99	PKPab	07:24:04.215	-0.1	20.9	4.24	TAS	m_e
WET	153.91	PKPdf	07:23:28.903		53.0	1.77	TAS	m_e
WET	153.91	PKPab	07:23:55.994	0.3	20.9	4.24	TAS	m_e
WLF	154.82	PKPab	07:24:00.374	0.5	20.9	4.24	TAS	m_e
WLF	154.82	pPKPab	07:25:52.084		32.7	3.97	TAS	m_e

Event 1024001 Western Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/24	11:34:29.58			35.4810	47.2680				33.0				9	27.98	32.98	m i ke	BGR
	1024007																

Magnitude Err Nsta Author OrigID  
mb 5.0 BGR 1024007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BUG	32.63		P	11:40:59.619		104.8		8.85		TAS		28.8	0.97	m_e	mb 5.2
CLZ	30.88		P	11:40:42.472		104.8		8.85		TAS		34.1	1.11	m_e	mb 5.2
FLT1	30.52		P	11:40:38.915	0.2	104.8		8.85		TAS		25.0	0.81	m_e	mb 5.2
FUR	29.37		P	11:40:29.674		104.8		8.85		TAS		32.6	0.89	m_e	mb 5.2
GEC2	27.98		P	11:40:17.257		104.8		8.85		TAS		8.5	0.84	m_e	mb 4.6
TNS	31.63		P	11:40:49.628		104.8		8.85		TAS		22.2	0.98	m_e	mb 5.0
UBR	30.05		P	11:40:35.486		104.8		8.85		TAS		37.1	0.79	m_e	mb 5.3
WET	28.58		P	11:40:22.585		104.8		8.85		TAS		13.6	0.97	m_e	mb 4.8
WLF	32.98		P	11:41:00.684		104.8		8.85		TAS		18.9	0.96	m_e	mb 5.0

Event 1024002 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/24	22:23:08.03			55.4470	-159.9160				33.0			9		72.82	75.99	m i ke	BGR
OrigID 1024008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1024008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	75.99		P	22:34:50.294		354.8		5.80		TAS		3.5	0.61	m_e	mb 4.7
BRG	73.80		P	22:34:37.773		354.8		5.80		TAS		27.6	1.37	m_e	mb 5.1
BUG	72.82		P	22:34:31.799		354.8		5.80		TAS		9.2	0.60	m_e	mb 5.1
CLL	73.32		P	22:34:34.691		354.8		5.80		TAS		2.2	0.37	m_e	mb 4.7
GEC2	75.81		P	22:34:49.073		354.8		5.80		TAS		3.3	0.67	m_e	mb 4.6
GRA1	74.84		P	22:34:44.258		354.8		5.80		TAS		7.5	0.52	m_e	mb 5.0
MOX	73.91		P	22:34:38.410		354.8		5.80		TAS		6.5	0.54	m_e	mb 4.9
TANN	74.19		P	22:34:39.934		354.8		5.80		TAS		1.4	0.49	m_e	mb 4.2
TNS	74.12		P	22:34:39.639		354.8		5.80		TAS		4.6	0.53	m_e	mb 4.7

Event 1025002 Switzerland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/25	19:35:44.69	0.28	1.24	46.8760	9.1390	4.4	2.2	14	1.0			35	212	0.24	3.14	m i ke	BGR
OrigID 1025008																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.4		BGR	1025008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	1.09		Sg	19:36:20.225	1.0					T__				m_e	
BALST	1.09		Pg	19:36:04.288	-0.9					T__				m_e ML	4.2

BFO	1.55	Sg	19:36:32.591	-1.4	T__	m_e	
BFO	1.55	Pg	19:36:11.947	-2.0	T__	m_e ML	4.3
CIEL		Sn	19:36:48.106	-1.6	T__	m_e ML	4.5
CIEL		Sg	19:36:57.861	0.4	T__	m_e	
DAVA	0.65	Sg	19:36:05.651	0.2	T__	m_e	
DAVA	0.65	Pg	19:35:55.952	-1.0	T__	m_e ML	4.0
ECH		Sg	19:36:44.199	-0.7	T__	m_e	
ECH		Pn	19:36:16.335	-0.9	T__	m_e ML	3.8
ECH		Pg	19:36:21.102	0.7	T__	m_e	
EMING	1.04	Sg	19:36:18.183	0.5	T__	m_e	
EMING	1.04	Pg	19:36:04.458	0.2	T__	m_e ML	4.4
FETA	1.10	Sg	19:36:21.702	2.1	T__	m_e	
FETA	1.10	Pg	19:36:05.027	-0.4	T__	m_e	
FETA	1.10	Pn	19:36:08.203	1.7	T__	m_e ML	4.1
FUR	1.94	Sg	19:36:46.438	0.2	T__	m_e	
FUR	1.94	Pn	19:36:17.453	-0.3	T__	m_e ML	4.6
FUR	1.94	Pg	19:36:19.835	-1.4	T__	m_e	
GRA1	3.14	Sg	19:37:23.307	-1.1	T__	m_e ML	4.7
GRFO		Pg	19:36:42.394	-1.4	T__	m_e	
HOHE		Pn	19:36:19.147	-0.9	T__	m_e	
ILLK		Pn	19:36:16.992	-0.3	T__	m_e	
ILLK		Pg	19:36:22.607	2.1	T__	m_e	
KBA	2.88	Sg	19:37:14.170	-2.2	T__	m_e ML	4.2
LDE	2.40	Sn	19:36:52.196	0.1	T__	m_e	
LDE	2.40	Sg	19:37:02.860	2.1	T__	m_e	
LEMB		Sg	19:36:59.279	0.0	T__	m_e	
LEMB		Sn	19:36:51.396	0.4	T__	m_e	
LEMB		Pn	19:36:22.357	-1.0	T__	m_e ML	4.5
LEMB		Pg	19:36:30.637	1.7	T__	m_e	
LESA	2.47	Sg	19:37:02.803	-0.5	T__	m_e	
LESA	2.47	Pn	19:36:26.784	1.7	T__	m_e ML	4.2
METMA	1.03	Sg	19:36:18.750	1.3	T__	m_e	
METMA	1.03	Pg	19:36:04.288	0.2	T__	m_e ML	4.2
MILB	2.95	Sg	19:37:18.764	0.2	T__	m_e	
MILB	2.95	Pn	19:36:29.534	-2.0	T__	m_e ML	5.2
MOTA	1.42	Sg	19:36:31.456	1.6	T__	m_e	
MOTA	1.42	Pg	19:36:11.323	-0.1	T__	m_e ML	4.2
NEEW		Pn	19:36:20.735	-0.5	T__	m_e	
NEEW		Pg	19:36:28.165	2.1	T__	m_e	
NORI	2.10	Sg	19:36:50.680	-0.7	T__	m_e	
NORI	2.10	Pn	19:36:18.126	-1.8	T__	m_e ML	4.4
NORI	2.10	Pg	19:36:26.066	1.8	T__	m_e	
OBER	0.95	Sg	19:36:15.801	0.9	T__	m_e	
OBER	0.95	Pg	19:36:01.906	-0.7	T__	m_e	
OBER	0.95	Pn	19:36:04.799	0.3	T__	m_e ML	3.7
PLONS	0.24	Sg	19:35:50.847	-1.6	T__	m_e	
PLONS	0.24	Pg	19:35:47.898	-1.3	T__	m_e	
RETA	1.26	Sg	19:36:26.863	2.0	T__	m_e	
RETA	1.26	Pg	19:36:07.976	-0.5	T__	m_e ML	4.0

RONF		Sg	19:36:42.914	-1.8	T__	m_e		
RONF		Pn	19:36:16.484	-0.7	T__	m_e ML	4.0	
RONF		Pg	19:36:22.496	2.2	T__	m_e		
ROTT	2.35	Pn	19:36:22.810	-0.5	T__	m_e		
SLE	0.99	Sg	19:36:17.729	1.5	T__	m_e		
SLE	0.99	Pg	19:36:03.154	-0.2	T__	m_e ML	5.2	
SQTA	1.46	Pg	19:36:12.400	0.3	T__	m_e		
STU	1.90	Sg	19:36:43.481	-1.4	T__	m_e		
STU	1.90	Pn	19:36:15.463	-1.8	T__	m_e ML	4.6	
STU	1.90	Pg	19:36:22.439	2.0	T__	m_e		
SULZ	0.96	Sg	19:36:17.332	2.2	T__	m_e		
SULZ	0.96	Pg	19:36:03.664	0.9	T__	m_e ML	5.2	
UBR	1.04	Sn	19:36:21.158	0.8	T__	m_e		
UBR	1.04	Pg	19:36:03.723	-0.6	T__	m_e ML	4.5	
WALHA	0.88	Sg	19:36:12.171	-0.4	T__	m_e		
WALHA	0.88	Sn	19:36:15.801	-0.8	T__	m_e		
WALHA	0.88	Pg	19:36:00.375	-0.8	T__	m_e		
WALHA	0.88	Pn	19:36:02.473	-1.0	T__	m_e ML	4.6	
WILA	0.56	Sg	19:36:02.587	0.0	T__	m_e		
WILA	0.56	Pg	19:35:54.931	-0.3	T__	m_e ML	4.4	
WTTA	1.75	Sg	19:36:42.669	2.4	T__	m_e		
WTTA	1.75	Pg	19:36:17.200	-0.5	T__	m_e ML	4.5	
ZELS		Pn	19:36:15.064	-0.2	T__	m_e		

Event 1026001 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/26	21:35:21.87			32.8710	52.2210				33.0			19		32.80	37.42	m i ke	BGR
1026007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1026007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	35.54		P	21:42:14.996	-0.2	103.5		8.63		TAS		31.4	1.21	m_e mb	5.0
BRG	33.22		P	21:41:55.080	-0.3	103.5		8.63		TAS		19.0	1.26	m_e mb	4.9
BSEG	36.28		P	21:42:20.629	-0.2	103.5		8.63		TAS		42.7	1.04	m_e mb	5.2
BUG	37.42		P	21:42:31.560	-0.3	103.5		8.63		TAS		72.4	1.23	m_e mb	5.3
CLL	33.91		P	21:42:01.456	-0.2	103.5		8.63		TAS		72.8	1.07	m_e mb	5.5
CLZ	35.64		P	21:42:16.483	0.2	103.5		8.63		TAS		69.7	1.19	m_e mb	5.4
FLT1	35.26		P	21:42:12.470	0.2	103.5		8.63		TAS		74.5	1.16	m_e mb	5.5
FUR	34.22		P	21:42:03.884		103.5		8.63		TAS		36.7	1.21	m_e mb	5.2
GEC2	32.80		P	21:41:52.176		103.5		8.63		TAS		44.6	1.25	m_e mb	5.2
GRA1	34.58		P	21:42:07.389		103.5		8.63		TAS		37.0	1.19	m_e mb	5.2
GTTG	35.80		P	21:42:17.833	-0.1	103.5		8.63		TAS		47.9	1.25	m_e mb	5.2
IBBN	37.31		P	21:42:30.194	0.4	103.5		8.63		TAS		62.9	1.17	m_e mb	5.2

Station	Mag	Phase	Time	Lat	Lon	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
KAST	36.66	P	21:42:25.171	0.1	103.5			8.63	TAS			45.0	1.43	m_e mb		5.0	
NEUB	34.62	P	21:42:07.157	0.1	103.5			8.63	TAS			142.1	2.07	m_e mb		5.5	
RETH	36.48	P	21:42:23.098	-0.1	103.5			8.63	TAS			54.3	1.40	m_e mb		5.2	
RUE	33.83	P	21:41:59.664	-0.1	103.5			8.63	TAS			62.5	1.16	m_e mb		5.4	
TNS	36.44	P	21:42:23.526		103.5			8.63	TAS			47.6	1.16	m_e mb		5.2	
UBR	34.90	P	21:42:09.692		103.5			8.63	TAS			37.1	1.08	m_e mb		5.2	
WET	33.40	P	21:41:56.757		103.5			8.63	TAS			28.9	1.21	m_e mb		5.1	

## Event 1027005 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/27	06:47:55.30			49.1940	155.9450				33.0					76.81	76.81	m i ke	BGR
OrigID 1027011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1027011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	76.81		P	06:59:42.864		19.7		4.73		TAS		7.1	0.95	m_e mb	4.8

## Event 1028004 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2020/10/28	04:13:16.19			52.3700	-173.9060				33.0					22	73.87	80.13	m i ke	BGR
OrigID 1028010																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1028010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	79.52		P	04:25:17.903		3.2		5.56		TAS		24.7	0.87	m_e mb	5.2
BRG	76.78		P	04:25:02.930	0.6	3.2		5.56		TAS		31.8	0.87	m_e mb	5.5
BSEG	73.87		P	04:24:46.834	-0.1	3.2		5.56		TAS		44.7	0.95	m_e mb	5.5
CLL	76.40		P	04:25:00.419	0.1	3.2		5.56		TAS		21.9	0.70	m_e mb	5.4
CLZ	75.97		P	04:24:58.743	0.1	3.2		5.56		TAS		37.6	0.75	m_e mb	5.6
FLT1	75.45		P	04:24:55.050	-0.5	3.2		5.56		TAS		32.0	0.69	m_e mb	5.6
FUR	79.61		P	04:25:18.600		3.2		5.56		TAS		100.8	1.61	m_e mb	5.5
GEC2	78.82		P	04:25:14.347		3.2		5.56		TAS		25.4	0.95	m_e mb	5.2
GRA1	78.09		P	04:25:10.859		3.2		5.56		TAS		58.4	0.80	m_e mb	5.8
GTTG	76.27		P	04:25:00.402	-0.1	3.2		5.56		TAS		37.5	0.88	m_e mb	5.5
IBBN	75.55		P	04:24:56.155	0.2	3.2		5.56		TAS		47.8	0.67	m_e mb	5.8
KAST	76.65		P	04:25:02.315	0.1	3.2		5.56		TAS		34.7	1.31	m_e mb	5.3
MOX	77.12		P	04:25:05.063	0.0	3.2		5.56		TAS		27.5	0.82	m_e mb	5.4



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NEUB	76.57	P	04:25:01.920	0.2	3.2	5.56	TAS	68.8	1.00	m_e	mb	5.7
PLN	77.26	P	04:25:05.774	-0.2	3.2	5.56	TAS	13.6	1.28	m_e	mb	4.9
RETH	75.10	P	04:24:53.549	-0.6	3.2	5.56	TAS	24.9	1.02	m_e	mb	5.2
RUE	75.20	P	04:24:54.023	0.3	3.2	5.56	TAS	107.4	1.38	m_e	mb	5.7
STU	79.07	P	04:25:15.520		3.2	5.56	TAS	74.3	0.80	m_e	mb	5.8
TANN	77.32	P	04:25:06.119	-0.3	3.2	5.56	TAS	33.9	1.32	m_e	mb	5.3
TNS	77.63	P	04:25:07.945	-0.2	3.2	5.56	TAS	29.8	0.82	m_e	mb	5.5
UBR	80.13	P	04:25:21.381		3.2	5.56	TAS	59.1	1.32	m_e	mb	5.3
WET	78.56	P	04:25:13.241		3.2	5.56	TAS	21.6	1.10	m_e	mb	5.1

Event 1028005 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/28	14:12:56.20			-14.4200	167.4500				182.0			15		136.58	141.98	m i ke	EMSC
	1028037																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	137.99		PKPdf	14:31:58.960	1.9	37.3		0.95		TAS				m_e	
BFO	141.98		PKPdf	14:32:01.957		37.3		0.95		TAS				m_e	
BSEG	136.61		PKPdf	14:31:56.348	-0.2	37.3		0.95		TAS				m_e	
BUG	139.71		PKPdf	14:32:01.968	2.5	37.3		0.95		TAS				m_e	
CLL	137.79		PKPdf	14:31:59.345	-1.2	37.3		0.95		TAS				m_e	
FLT1	137.63		PKPdf	14:31:56.348	0.8	37.3		0.95		TAS				m_e	
FUR	140.96		PKPdf	14:31:58.971		37.3		0.95		TAS				m_e	
IBBN	138.81		PKPdf	14:31:59.720	1.3	37.3		0.95		TAS				m_e	
KAST	139.54		PKPdf	14:32:02.343	1.9	37.3		0.95		TAS				m_e	
RUE	136.58		PKPdf	14:31:56.910	0.1	37.3		0.95		TAS				m_e	
STU	141.29		PKPdf	14:32:00.844		37.3		0.95		TAS				m_e	
TANN	138.71		PKPdf	14:32:00.844	-2.5	37.3		0.95		TAS				m_e	
TNS	140.35		PKPdf	14:32:03.655		37.3		0.95		TAS				m_e	
WET	139.53		PKPdf	14:32:01.968		37.3		0.95		TAS				m_e	
WLF	141.60		PKPdf	14:32:01.219		37.3		0.95		TAS				m_e	

Event 1028007 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/28	14:12:56.30			-14.4960	167.3930				178.0			20		136.63	142.03	m i ke	NEIC
	1028046																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	138.04		PKPdf	14:31:59.207	-0.2	37.3		1.87		TAS				m_e	
ASSE	138.04		SKPbc	14:35:18.946	0.2	35.7		2.75		TAS				m_e	
BFO	142.03		SKPbc	14:35:29.762		35.7		2.75		TAS				m_e	
BSEG	136.66		PKPdf	14:31:56.999	-0.2	37.3		1.87		TAS				m_e	
BSEG	136.66		SKPbc	14:35:14.928	-0.1	35.7		2.75		TAS				m_e	
BUG	139.76		PKPdf	14:32:02.544	0.1	37.3		1.87		TAS				m_e	
BUG	139.76		SKPbc	14:35:23.544	0.2	35.7		2.75		TAS				m_e	
CLL	137.84		PKPdf	14:31:58.988	0.1	37.3		1.87		TAS				m_e	
CLL	137.84		SKPbc	14:35:18.266	0.1	35.7		2.75		TAS				m_e	
CLZ	138.38		PKPdf	14:32:00.058	-0.2	37.3		1.87		TAS				m_e	
CLZ	138.38		SKPbc	14:35:19.931	0.3	35.7		2.75		TAS				m_e	
FLT1	137.68		SKPbc	14:35:17.693	0.1	35.7		2.75		TAS				m_e	
FUR	141.00		PKPdf	14:32:04.635	0.0	37.3		1.87		TAS				m_e	
GEC2	139.45		PKPdf	14:32:02.045	-0.0	37.3		1.87		TAS				m_e	
GEC2	139.45		SKPbc	14:35:22.807	-0.1	35.7		2.75		TAS				m_e	
GRA1	139.81		SKPbc	14:35:23.699	-0.1	35.7		2.75		TAS				m_e	
GTTG	138.77		SKPbc	14:35:21.093	0.1	35.7		2.75		TAS				m_e	
IBBN	138.86		SKPbc	14:35:21.217	-0.1	35.7		2.75		TAS				m_e	
KAST	139.59		PKPdf	14:32:02.325	0.2	37.3		1.87		TAS				m_e	
KAST	139.59		SKPbc	14:35:23.271	-0.2	35.7		2.75		TAS				m_e	
NEUB	138.40		SKPbc	14:35:19.952	-0.0	35.7		2.75		TAS				m_e	
PLN	138.82		PKPdf	14:32:00.757		37.3		1.87		TAS				m_e	
PLN	138.82		SKPbc	14:35:21.323	0.1	35.7		2.75		TAS				m_e	
RETH	137.98		PKPdf	14:31:59.333		37.3		1.87		TAS				m_e	
RETH	137.98		SKPbc	14:35:18.763	0.2	35.7		2.75		TAS				m_e	
RUE	136.63		PKPdf	14:31:56.558		37.3		1.87		TAS				m_e	
STU	141.34		SKPbc	14:35:27.705		35.7		2.75		TAS				m_e	
TANN	138.75		PKPdf	14:32:00.789		37.3		1.87		TAS				m_e	
TANN	138.75		SKPbc	14:35:21.038	-0.2	35.7		2.75		TAS				m_e	
TNS	140.40		PKPdf	14:32:03.803		37.3		1.87		TAS				m_e	
TNS	140.40		SKPbc	14:35:25.325		35.7		2.75		TAS				m_e	
WET	139.57		PKPdf	14:32:02.332		37.3		1.87		TAS				m_e	
WET	139.57		SKPbc	14:35:23.286	-0.1	35.7		2.75		TAS				m_e	
WLF	141.65		PKPdf	14:32:06.432		37.3		1.87		TAS				m_e	
WLF	141.65		SKPbc	14:35:29.053		35.7		2.75		TAS				m_e	

Event 1030003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	02:34:22.33			-20.9800	-178.1600				591.2	5.9		24		146.38	152.45	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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ASSE	148.08	PKPbc	02:53:01.584	0.2	17.5	2.42	TAS	m_e
ASSE	148.08	PKPab	02:53:06.686	-0.3	16.6	4.21	TAS	m_e
BFO	152.13	PKPbc	02:53:11.237		17.5	2.42	TAS	m_e
BFO	152.13	PKPab	02:53:23.538		16.6	4.21	TAS	m_e
BRG	148.61	PKPdf	02:52:59.043	0.1	20.3	1.49	TAS	m_e
BRG	148.61	PKPbc	02:53:03.184	-0.1	17.5	2.42	TAS	m_e
BRG	148.61	PKPab	02:53:09.372	-0.0	16.6	4.21	TAS	m_e
BSEG	146.38	PKPbc	02:52:57.563	0.0	17.5	2.42	TAS	m_e
BUG	149.21	PKPdf	02:53:00.101	-0.2	20.3	1.49	TAS	m_e
BUG	149.21	PKPbc	02:53:04.763	0.1	17.5	2.42	TAS	m_e
BUG	149.21	PKPab	02:53:12.076	0.1	16.6	4.21	TAS	m_e
CLL	148.41	PKPbc	02:53:02.792	0.2	17.5	2.42	TAS	m_e
CLL	148.41	PKPab	02:53:08.136	0.1	16.6	4.21	TAS	m_e
CLL	148.41	pPKPab	02:55:19.458		14.4	4.68	TAS	m_e
CLZ	148.40	PKPdf	02:52:59.008	-0.2	20.3	1.49	TAS	m_e
CLZ	148.40	PKPbc	02:53:02.857	0.0	17.5	2.42	TAS	m_e
CLZ	148.40	PKPab	02:53:08.427	0.1	16.6	4.21	TAS	m_e
FLT1	147.79	PKPdf	02:52:57.479	-0.0	20.3	1.49	TAS	m_e
FLT1	147.79	PKPbc	02:53:00.919	-0.2	17.5	2.42	TAS	m_e
FLT1	147.79	PKPab	02:53:05.191	0.2	16.6	4.21	TAS	m_e
FUR	151.75	PKPbc	02:53:10.712	-0.5	17.5	2.42	TAS	m_e
FUR	151.75	PKPab	02:53:22.520		16.6	4.21	TAS	m_e
GEC2	150.55	PKPdf	02:53:01.863		20.3	1.49	TAS	m_e
GEC2	150.55	PKPbc	02:53:07.814	0.0	17.5	2.42	TAS	m_e
GEC2	150.55	PKPab	02:53:17.226		16.6	4.21	TAS	m_e
GEC2	150.55	pPKPab	02:55:26.716		14.4	4.68	TAS	m_e
GRA1	150.31	PKPdf	02:53:01.742		20.3	1.49	TAS	m_e
GRA1	150.31	PKPbc	02:53:07.341	-0.1	17.5	2.42	TAS	m_e
GRA1	150.31	PKPab	02:53:16.275	-0.3	16.6	4.21	TAS	m_e
HLG	146.45	PKPbc	02:52:58.164	-0.2	17.5	2.42	TAS	m_e
IBBN	148.31	PKPdf	02:52:58.898	-0.2	20.3	1.49	TAS	m_e
IBBN	148.31	PKPbc	02:53:02.369	0.1	17.5	2.42	TAS	m_e
IBBN	148.31	PKPab	02:53:07.960	0.3	16.6	4.21	TAS	m_e
KAST	149.31	PKPdf	02:52:59.848	0.2	20.3	1.49	TAS	m_e
KAST	149.31	PKPbc	02:53:05.089	0.3	17.5	2.42	TAS	m_e
MOX	149.33	PKPdf	02:52:59.750	0.2	20.3	1.49	TAS	m_e
MOX	149.33	PKPbc	02:53:04.933	0.3	17.5	2.42	TAS	m_e
MOX	149.33	PKPab	02:53:12.083	-0.3	16.6	4.21	TAS	m_e
NEUB	148.78	PKPdf	02:52:59.331	0.3	20.3	1.49	TAS	m_e
NEUB	148.78	PKPbc	02:53:03.678	0.1	17.5	2.42	TAS	m_e
NEUB	148.78	PKPab	02:53:09.403	-0.2	16.6	4.21	TAS	m_e
PLN	149.37	PKPdf	02:52:59.772	-0.1	20.3	1.49	TAS	m_e
PLN	149.37	PKPbc	02:53:05.206	0.3	17.5	2.42	TAS	m_e
PLN	149.37	PKPab	02:53:12.338	-0.1	16.6	4.21	TAS	m_e
RUE	147.15	PKPbc	02:52:59.402	-0.3	17.5	2.42	TAS	m_e
STU	151.56	PKPdf	02:53:03.546		20.3	1.49	TAS	m_e
STU	151.56	PKPbc	02:53:10.340	-0.5	17.5	2.42	TAS	m_e
STU	151.56	PKPab	02:53:21.582		16.6	4.21	TAS	m_e
TANN	149.37	PKPdf	02:52:59.581		20.3	1.49	TAS	m_e

TANN	149.37	PKPbc	02:53:05.238	0.1	17.5	2.42	TAS	m_e
TANN	149.37	PKPab	02:53:12.251	0.1	16.6	4.21	TAS	m_e
TNS	150.26	PKPdf	02:53:01.621		20.3	1.49	TAS	m_e
TNS	150.26	PKPbc	02:53:07.514	0.1	17.5	2.42	TAS	m_e
TNS	150.26	PKPab	02:53:15.826	0.2	16.6	4.21	TAS	m_e
UBR	152.45	PKPdf	02:53:04.463		20.3	1.49	TAS	m_e
UBR	152.45	PKPbc	02:53:11.967		17.5	2.42	TAS	m_e
UBR	152.45	pPKPab	02:55:32.847		14.4	4.68	TAS	m_e
WET	150.47	PKPdf	02:53:01.437		20.3	1.49	TAS	m_e
WET	150.47	PKPbc	02:53:07.748	0.4	17.5	2.42	TAS	m_e
WET	150.47	PKPab	02:53:17.202		16.6	4.21	TAS	m_e
WET	150.47	pPKPab	02:55:27.889		14.4	4.68	TAS	m_e
WLF	151.08	PKPbc	02:53:09.864	-0.0	17.5	2.42	TAS	m_e
WLF	151.08	PKPab	02:53:19.715		16.6	4.21	TAS	m_e
WLF	151.08	pPKPab	02:55:29.132		14.4	4.68	TAS	m_e

Event 1030004 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	04:36:35.35			55.5800	-160.3600				33.0			27		70.45	77.44	m i ke	BGR
OrigID 1030010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1030010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	77.35		P	04:48:27.866		355.2		5.81		TAS		14.7	0.84	m_e mb	5.1
ASSE	72.27		P	04:47:58.706	0.0	355.2		5.81		TAS		30.1	1.14	m_e mb	5.3
BFO	75.90		P	04:48:18.922	-0.4	355.2		5.81		TAS		18.2	0.81	m_e mb	5.2
BRG	73.68		P	04:48:06.407	0.2	355.2		5.81		TAS		23.0	1.04	m_e mb	5.2
BSEG	70.45		P	04:47:47.289	0.0	355.2		5.81		TAS		19.7	0.80	m_e mb	5.3
BUG	72.72		P	04:48:00.843	0.1	355.2		5.81		TAS		33.5	0.76	m_e mb	5.5
CLL	73.21		P	04:48:03.606	-0.1	355.2		5.81		TAS		17.8	0.85	m_e mb	5.2
CLZ	72.54		P	04:48:00.251	-0.2	355.2		5.81		TAS		31.5	0.99	m_e mb	5.4
DAVA	77.04		P	04:48:25.711		355.2		5.81		TAS		13.9	0.81	m_e mb	5.1
FLT1	72.10		P	04:47:56.954	-0.1	355.2		5.81		TAS		36.7	1.21	m_e mb	5.4
FUR	76.26		P	04:48:21.682	-0.1	355.2		5.81		TAS		32.8	0.75	m_e mb	5.5
GEC2	75.70		P	04:48:18.156	-0.2	355.2		5.81		TAS		14.8	0.85	m_e mb	5.1
GRA1	74.73		P	04:48:12.615	-0.1	355.2		5.81		TAS		28.7	0.72	m_e mb	5.4
IBBN	71.90		P	04:47:56.694	0.3	355.2		5.81		TAS		33.1	0.82	m_e mb	5.5
KAST	73.05		P	04:48:02.891	-0.1	355.2		5.81		TAS		13.2	0.85	m_e mb	5.1
KBA	77.44		P	04:48:28.881		355.2		5.81		TAS		40.2	0.68	m_e mb	5.7
MOX	73.80		P	04:48:07.150	0.1	355.2		5.81		TAS		26.6	0.75	m_e mb	5.3
NEUB	73.26		P	04:48:04.206	-0.1	355.2		5.81		TAS		39.4	0.71	m_e mb	5.6
PLN	73.99		P	04:48:08.254	0.4	355.2		5.81		TAS		5.2	0.78	m_e mb	4.6
RUE	72.07		P	04:47:57.144	0.3	355.2		5.81		TAS		57.7	1.04	m_e mb	5.6

STU	75.52	P	04:48:17.140	0.1	355.2	5.81	TAS	49.2	0.83	m_e	mb	5.7
TANN	74.07	P	04:48:08.985	0.2	355.2	5.81	TAS	25.6	1.32	m_e	mb	5.1
TNS	74.02	P	04:48:08.740	-0.1	355.2	5.81	TAS	21.6	0.72	m_e	mb	5.3
UBR	76.67	P	04:48:23.693	0.1	355.2	5.81	TAS	20.3	0.78	m_e	mb	5.3
WET	75.36	P	04:48:16.564	-0.5	355.2	5.81	TAS	20.3	1.07	m_e	mb	5.1
WLF	74.39	P	04:48:11.037	-0.1	355.2	5.81	TAS	23.9	0.77	m_e	mb	5.3
WTTA	77.17	P	04:48:26.808		355.2	5.81	TAS	43.3	0.70	m_e	mb	5.7

Event 1030005 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	08:38:41.53			10.6920	-43.8500				33.0			24		56.60	62.60	m i ke	BGR
OrigID 1030011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1030011
Ms	5.2		BGR	1030011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	60.22		S	08:57:08.641	-2.2	247.2		13.84		TAS				a_e		
BFO	57.36		S	08:56:27.941	-0.1	247.2		13.84		TAS				a_e		
BRG	61.68		S	08:57:27.241	-2.3	247.2		13.84		TAS				a_e		
BSEG	60.74		S	08:57:13.391	-0.8	247.2		13.84		TAS				a_e		
BUG	58.01		S	08:56:36.941	-1.0	247.2		13.84		TAS				a_e		
CLL	61.27		S	08:57:21.341	-1.0	247.2		13.84		TAS				a_e		
CLZ	59.94		S	08:57:04.441	-1.0	247.2		13.84		TAS				a_e		
FLT1	60.62		S	08:57:13.891	-0.7	247.2		13.84		TAS				a_e		
FUR	59.14		S	08:56:50.541	-0.6	247.2		13.84		TAS				a_e		
GEC2	60.88		S	08:57:15.441	-1.4	247.2		13.84		TAS				a_e		
GRA1	59.64		S	08:56:59.491	-0.1	247.2		13.84		TAS				a_e		
GRA1	59.64		P	08:48:42.762		247.4		6.74		TAS		23.8	1.04	m_e	mb	5.2
GRA1	59.64		L	09:09:55.265						T__		1616.3	21.20	a_e	Ms	5.1
HLG	59.54		S	08:56:58.441	-0.2	247.2		13.84		TAS				a_e		
KAST	58.56		S	08:56:46.391	0.9	247.2		13.84		TAS				a_e		
MOX	60.21		S	08:57:07.091	0.1	247.2		13.84		TAS				m_e		
MOX	60.21		L	09:10:03.734						T__		2710.6	21.20	a_e	Ms	5.4
NEUB	60.50		S	08:57:32.741	-0.1	247.2		13.84		TAS				a_e		
PLN	60.48		S	08:57:09.741	20.5	247.2		13.84		TAS				a_e		
RGN	62.60		S	08:57:39.541		247.2		13.84		TAS				a_e		
RUE	62.12		S	08:57:32.541	-2.0	247.2		13.84		TAS				a_e		
STU	58.06		S	08:56:37.541	-0.2	247.2		13.84		TAS				a_e		
TANN	60.64		S	08:57:13.091	-2.3	247.2		13.84		TAS				a_e		
TNS	58.18		S	08:56:39.591	-0.4	247.2		13.84		TAS				a_e		
UBR	58.23		S	08:56:38.591	-0.8	247.2		13.84		TAS				a_e		
WET	60.47		S	08:57:08.541	-1.9	247.2		13.84		TAS				a_e		
WLF	56.60		S	08:56:17.341	-0.8	247.2		13.84		TAS				a_e		

Event 1030008 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	11:10:09.90			-8.8910	161.0550				14.0			11		130.09	134.22	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
ASSE	130.52		PKPdf	11:29:21.160	-0.1	43.1		2.04		TAS				m_e	
BRG	130.09		PKPdf	11:29:19.603		43.1		2.04		TAS				m_e	
CLL	130.18		PKPdf	11:29:20.212	0.2	43.1		2.04		TAS				m_e	
CLZ	130.86		PKPdf	11:29:22.040	0.1	43.1		2.04		TAS				m_e	
FLT1	130.14		PKPdf	11:29:20.550	0.1	43.1		2.04		TAS				m_e	
GEC2	131.64		PKPdf	11:29:23.326		43.1		2.04		TAS				m_e	
KAST	132.12		PKPdf	11:29:23.791		43.1		2.04		TAS				m_e	
PLN	131.15		PKPdf	11:29:22.243		43.1		2.04		TAS				m_e	
TANN	131.07		PKPdf	11:29:21.904		43.1		2.04		TAS				m_e	
WET	131.80		PKPdf	11:29:23.597		43.1		2.04		TAS				m_e	
WLF	134.22		PKPdf	11:29:28.820		43.1		2.04		TAS				m_e	

Event 1030001 Aegean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	11:51:30.02	2.96	0.87	38.0720	26.8330	56.7	41.1	146	10.0			23	341	14.35	20.67	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb	6.3		BGR	1030007
MBB	6.9		BGR	1030007
Ms	6.9		BGR	1030007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	18.03		P	11:55:39.521	0.6					T__		3991.7	1.91	m_e mb	6.2
BFO	16.90		P	11:55:24.084	-0.7					T__		803.5	1.04	m_e mb	5.8
BRG	15.72		P	11:55:09.023	-0.7					T__		3028.2	1.55	m_e mb	6.2
BSEG	19.49		P	11:55:54.122	-2.1					T__		3150.2	1.25	m_e mb	6.4
BUG	19.19		P	11:55:52.452	-0.2					T__		4688.0	1.72	m_e mb	6.4
CLL	16.44		P	11:55:18.579	-0.4					T__		1907.3	1.44	m_e mb	6.0
CLZ	17.97		P	11:55:39.477	1.4					T__		4332.0	1.75	m_e mb	6.3
FLT1	17.93		P	11:55:39.414	1.7					T__		5150.3	1.74	m_e mb	6.4
FUR	15.16		P	11:55:01.182	0.1					T__				m_e	

Station	Mag	Type	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
GEC2	14.35	P	11:54:53.868	0.1																
GRA1	16.13	P	11:55:14.853	-0.1																
GRA1	16.13	L	12:02:16.883																	
HLG	20.67	P	11:56:09.459	0.1																
IBBN	19.48	P	11:55:55.414	-0.7																
KAST	18.47	P	11:55:45.085	0.9																
MOX	16.58	P	11:55:20.302	-0.4																
MOX	16.58	L	12:01:54.613																	
NEUB	16.89	P	11:55:25.619	0.9																
PLN	16.22	P	11:55:15.449	-0.7																
RUE	17.03	P	11:55:26.916	0.4																
STU	16.64	P	11:55:21.110	-0.5																
TANN	16.03	P	11:55:12.873	-0.8																
TNS	17.87	P	11:55:38.522	1.6																
WET	14.95	P	11:55:00.238	-0.0																
WLF	18.81	P	11:55:48.032	-0.2																

Event 1030009 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author		
2020/10/30	15:14:56.30	2.37	2.10	37.8630	26.8820	97.8	71.2	164	13.0					29	342	12.56	19.69	m i ke	KAN
1030030																			

Magnitude Err Nsta Author OrigID  
 mb 4.5 BGR 1030015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	12.56		P	15:17:54.815	-7.3	130.6		12.63		TAS					
ASSE	18.23		P	15:19:11.977		130.6		12.63		TAS		29.0	1.12	m_e mb	4.3
BFO	17.07		P	15:18:59.461	-1.5	130.6		12.63		TAS		21.2	1.06	m_e mb	4.2
BIOA	13.80		P	15:18:17.849	-2.0	130.6		12.63		TAS				m_e	
BRG	15.92		P	15:18:45.343	1.9	130.6		12.63		TAS		49.4	1.18	m_e mb	4.5
BSEG	19.69		P	15:19:26.287		130.6		12.63		TAS		76.9	1.14	m_e mb	4.8
BUG	19.37		P	15:19:25.588		130.6		12.63		TAS		106.9	1.64	m_e mb	4.8
CLL	16.64		P	15:18:54.233	2.3	130.6		12.63		TAS		22.7	0.97	m_e mb	4.3
CLZ	18.16		P	15:19:12.105	-3.5	130.6		12.63		TAS		26.9	1.05	m_e mb	4.3
DAVA	15.63		P	15:18:39.955	0.8	130.6		12.63		TAS				m_e	
FETA	15.00		P	15:18:33.341	1.3	130.6		12.63		TAS				m_e	
FUR	15.34		P	15:18:39.247	1.1	130.6		12.63		TAS		64.1	0.91	m_e	
GEC2	14.54		P	15:18:26.458	2.3	130.6		12.63		TAS				m_e	
GRA1	16.31		P	15:18:50.406	1.6	130.6		12.63		TAS		30.3	1.04	m_e	
IBBN	19.67		P	15:19:28.449		130.6		12.63		TAS		240.0	1.89	m_e	
KAST	18.66		P	15:19:18.168		130.6		12.63		TAS		26.8	1.38	m_e	
LESA	14.14		P	15:18:19.526	3.7	130.6		12.63		TAS				m_e	
MOA	13.59		P	15:18:10.636	0.1	130.6		12.63		TAS				m_e	
MOX	16.77		P	15:18:56.232	-3.5	130.6		12.63		TAS		53.7	1.14	m_e	

OBKA	12.56	P	15:17:56.676	-5.1	130.6	12.63	TAS									m_e
PLN	16.41	P	15:18:51.470	5.9	130.6	12.63	TAS			27.2	1.07					m_e
RUE	17.24	P	15:19:03.645	-1.0	130.6	12.63	TAS			53.1	0.96					m_e
SQTA	14.83	P	15:18:31.667	2.1	130.6	12.63	TAS									m_e
STU	16.82	P	15:18:56.614	-0.3	130.6	12.63	TAS			67.3	1.00					m_e
TANN	16.22	P	15:18:49.093	1.2	130.6	12.63	TAS			31.4	0.98					m_e
TNS	18.05	P	15:19:08.804	-3.5	130.6	12.63	TAS			70.4	1.23					m_e
UBR	15.71	P	15:18:43.524	1.0	130.6	12.63	TAS			82.4	1.13					m_e
WET	15.14	P	15:18:36.909	3.2	130.6	12.63	TAS			59.2	1.14					m_e
WLF	18.98	P	15:19:20.328		130.6	12.63	TAS			126.9	1.79					m_e

Event 1030011 Central Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	18:24:42.90			-10.1280	-75.1780				45.0			19		92.12	97.25	m i ke	NEIC
	1030050																

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	1030017
Ms	5.2		BGR	1030017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	95.40		P	18:38:03.444		260.7		4.62		TAS		22.7	1.24	m_e	mb 5.5
BERGE	93.05		P	18:37:51.736	-0.6	260.7		4.62		TAS		72.4	1.47	m_e	mb 5.9
BFO	93.24		P	18:37:51.955	0.3	260.7		4.62		TAS		32.1	1.62	m_e	mb 5.5
BRG	97.25		P	18:38:11.426		260.7		4.62		TAS		18.3	1.24	m_e	mb 5.6
BSEG	95.49		P	18:38:03.464	0.0	260.7		4.62		TAS		49.2	1.55	m_e	mb 5.7
BUG	93.20		P	18:37:52.721	-0.2	260.7		4.62		TAS		57.9	1.35	m_e	mb 5.8
CLL	96.72		P	18:38:08.700		260.7		4.62		TAS		15.8	1.24	m_e	mb 5.5
CLZ	95.17		P	18:38:02.250		260.7		4.62		TAS		17.2	1.14	m_e	mb 5.4
ECH			P	18:37:48.602	-0.3	260.7		4.62		TAS		129.3	1.45	m_e	mb 6.0
FLT1	95.78		P	18:38:04.039		260.7		4.62		TAS		16.7	1.13	m_e	mb 5.5
GEC2	96.84		P	18:38:08.803		260.7		4.62		TAS		11.3	1.04	m_e	mb 5.4
GRA1	95.35		P	18:38:03.143	0.0	260.7		4.62		TAS		49.3	1.64	m_e	mb 5.7
GRA1	95.35		L	19:17:27.154						T__		904.9	22.00	a_e	Ms 5.2
METMA	93.07		P	18:37:51.727	-0.0	260.7		4.62		TAS		76.4	1.46	m_e	mb 5.9
MILB	94.15		P	18:37:56.729	0.1	260.7		4.62		TAS		153.9	2.09	m_e	mb 6.0
MOX	95.75		P	18:38:04.331		260.7		4.62		TAS		18.4	1.41	m_e	mb 5.4
MOX	95.75		L	19:18:19.554						T__		789.2	20.60	a_e	Ms 5.2
PLN	96.07		P	18:38:06.288	0.0	260.7		4.62		TAS		11.3	1.56	m_e	mb 5.2
STU	93.89		P	18:37:55.924	-0.7	260.7		4.62		TAS		35.3	0.80	m_e	mb 5.8
TANN	96.25		P	18:38:06.783		260.7		4.62		TAS		26.2	1.29	m_e	mb 5.6
TNS	93.69		P	18:37:54.852	0.5	260.7		4.62		TAS		20.9	1.15	m_e	mb 5.4
UBR	94.29		P	18:37:57.777	-0.4	260.7		4.62		TAS		58.9	1.19	m_e	mb 5.8
WET	96.34		P	18:38:06.986		260.7		4.62		TAS		25.1	1.34	m_e	mb 5.6
WLF	92.12		P	18:37:47.587	0.0	260.7		4.62		TAS		99.4	1.43	m_e	mb 5.9



Event 1030012 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	22:44:11.62			71.9030	-3.1170				10.0					23.19	23.19	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	1030018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	23.19		P	22:49:15.493		345.2		9.39		TAS		10.1	1.04	m_e mb	4.3

Event 1030013 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	22:56:51.81			71.1400	-2.9400				10.0				24	18.08	24.30	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1030019
Ms	4.7		BGR	1030019

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	20.02		P	23:01:24.770	-1.0	348.9		10.52		TAS		93.3	0.93	m_e mb	5.0
BFO	23.46		P	23:02:01.868	0.4	348.9		10.52		TAS		75.2	0.97	m_e mb	5.2
BRG	21.72		P	23:01:42.818	0.2	348.9		10.52		TAS				m_e	
BSEG	18.21		P	23:01:05.720	-1.0	348.9		10.52		TAS		215.9	1.14	m_e mb	5.2
BUG	20.28		P	23:01:28.028	0.1	348.9		10.52		TAS		69.0	0.88	m_e mb	4.9
CLL	21.15		P	23:01:37.052	-0.1	348.9		10.52		TAS		135.1	0.91	m_e mb	5.3
CLZ	20.25		P	23:01:28.279	-0.1	348.9		10.52		TAS		132.2	0.96	m_e mb	5.1
FLT1	19.90		P	23:01:23.517	-0.9	348.9		10.52		TAS		50.5	0.88	m_e mb	4.8
FUR	23.98		P	23:02:06.756	-0.8	348.9		10.52		TAS		104.9	0.86	m_e mb	5.4
GEC2	23.65		P	23:02:03.873	0.4	348.9		10.52		TAS		78.1	1.14	m_e mb	5.1
GRA1	22.47		P	23:01:51.340	-0.3	348.9		10.52		TAS		89.0	1.00	m_e mb	5.2
GRA1	22.47		L	23:10:13.998						T__		2906.3	22.00	a_e Ms	4.7
IBBN	19.48		P	23:01:19.631	-0.2	348.9		10.52		TAS		80.9	0.98	m_e mb	4.9
KAST	20.64		P	23:01:32.426	0.3	348.9		10.52		TAS		107.9	1.02	m_e mb	5.1
MOX	21.59		P	23:01:41.940	-0.4	348.9		10.52		TAS		65.7	0.84	m_e mb	5.1
MOX	21.59		L	23:09:46.463						T__		3113.8	21.10	a_e Ms	4.7
NEUB	21.08		P	23:01:36.802	-0.0	348.9		10.52		TAS		328.8	0.81	m_e mb	5.7
PLN	21.83		P	23:01:44.823	0.2	348.9		10.52		TAS		662.8	2.54	m_e mb	5.6
RGN	18.08		P	23:01:04.592	0.8	348.9		10.52		TAS		594.8	0.97	m_e mb	5.7

RUE	20.15	P	23:01:27.026	1.2	348.9	10.52	TAS	240.4	0.94	m_e	mb	5.4
STU	23.12	P	23:01:58.859	0.6	348.9	10.52	TAS	167.5	1.14	m_e	mb	5.5
TANN	21.94	P	23:01:45.826	0.1	348.9	10.52	TAS	89.2	0.80	m_e	mb	5.2
TNS	21.61	P	23:01:42.442	0.2	348.9	10.52	TAS	70.9	0.82	m_e	mb	5.1
UBR	24.30	P	23:02:10.015	-0.9	348.9	10.52	TAS	60.4	0.88	m_e	mb	5.1
WET	23.24	P	23:01:59.612	0.2	348.9	10.52	TAS	96.8	1.41	m_e	mb	5.1
WLF	21.93	P	23:01:45.049	0.9	348.9	10.52	TAS	55.1	0.99	m_e	mb	4.9

Event 1030014 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/30	23:46:50.89			71.3600	-1.8400				33.0			24		18.09	24.38	m i ke	BGR
	1030020																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1030020

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	20.07	P		23:51:22.847	-0.3	350.0		10.44		TAS		633.7	2.13	m_e	mb	5.5
BFO	23.56	P		23:51:59.471	-1.0	350.0		10.44		TAS		213.7	1.54	m_e	mb	5.4
BRG	21.75	P		23:51:40.599	-0.2	350.0		10.44		TAS		119.4	1.19	m_e	mb	5.2
BSEG	18.26	P		23:51:03.396	1.2	350.0		10.44		TAS		113.2	1.22	m_e	mb	4.9
BUG	20.38	P		23:51:25.873	-0.6	350.0		10.44		TAS		108.3	1.25	m_e	mb	4.9
CLL	21.19	P		23:51:35.003	-0.2	350.0		10.44		TAS		199.8	1.58	m_e	mb	5.2
CLZ	20.32	P		23:51:25.810	0.4	350.0		10.44		TAS		129.9	1.16	m_e	mb	5.0
FLT1	19.95	P		23:51:21.241	-0.5	350.0		10.44		TAS		59.9	0.98	m_e	mb	4.8
FUR	24.04	P		23:52:04.440		350.0		10.44		TAS		304.7	1.49	m_e	mb	5.6
GEC2	23.69	P		23:52:01.343	-0.0	350.0		10.44		TAS		158.8	1.58	m_e	mb	5.3
GRA1	22.53	P		23:51:49.000	0.6	350.0		10.44		TAS		84.5	1.05	m_e	mb	5.2
IBBN	19.57	P		23:51:20.078	-0.8	350.0		10.44		TAS		31.7	1.00	m_e	mb	4.5
KAST	20.73	P		23:51:29.674	0.6	350.0		10.44		TAS		34.8	0.98	m_e	mb	4.7
MOX	21.65	P		23:51:40.117	-0.2	350.0		10.44		TAS		434.3	1.70	m_e	mb	5.6
NEUB	21.13	P		23:51:34.329	0.1	350.0		10.44		TAS		161.4	0.87	m_e	mb	5.4
PLN	21.87	P		23:51:42.072	-0.1	350.0		10.44		TAS		87.7	1.25	m_e	mb	5.0
RGN	18.09	P		23:51:01.650	0.2	350.0		10.44		TAS		266.4	1.05	m_e	mb	5.3
RUE	20.17	P		23:51:24.458	-1.0	350.0		10.44		TAS		187.5	1.10	m_e	mb	5.2
STU	23.21	P		23:51:56.784	-0.7	350.0		10.44		TAS		420.8	1.62	m_e	mb	5.7
TANN	21.98	P		23:51:43.129	1.2	350.0		10.44		TAS		178.6	1.28	m_e	mb	5.3
TNS	21.70	P		23:51:40.212	-0.4	350.0		10.44		TAS		180.9	1.48	m_e	mb	5.3
UBR	24.38	P		23:52:07.650		350.0		10.44		TAS		36.5	0.99	m_e	mb	4.9
WET	23.28	P		23:51:57.334	0.6	350.0		10.44		TAS		159.0	1.49	m_e	mb	5.3
WLF	22.05	P		23:51:43.757	0.5	350.0		10.44		TAS		105.0	1.33	m_e	mb	5.1

Event 1031001 Jan Mayen Island region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/31 03:54:31.20 72.0850 -3.4490 10.0 23.40 23.40 m i ke BGR  
 1031007

Magnitude Err Nsta Author OrigID  
 mb 4.2 BGR 1031007

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 23.40 P 03:59:39.852 345.9 9.12 TAS 10.8 1.24 m\_e mb 4.2

Event 1031004 Fiji Islands region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/10/31 05:22:10.95 -17.8960 -177.7000 564.1 23 143.41 149.94 m i ke BGR  
 1031010

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 BFO 149.16 PKPbc 05:40:55.012 15.4 2.77 TAS m\_e  
 BRG 145.73 PKPbc 05:40:46.423 0.2 15.4 2.77 TAS m\_e  
 BSEG 143.41 PKPbc 05:40:39.296 -0.4 15.4 2.77 TAS m\_e  
 CLL 145.51 PKPbc 05:40:45.769 0.2 15.4 2.77 TAS m\_e  
 CLL 145.51 pPKPbc 05:42:55.255 T\_\_ m\_e  
 CLZ 145.44 PKPbc 05:40:45.980 0.3 15.4 2.77 TAS m\_e  
 DAVA 149.94 PKPbc 05:40:57.484 15.4 2.77 TAS m\_e  
 FLT1 144.84 PKPbc 05:40:43.518 0.1 15.4 2.77 TAS m\_e  
 FUR 148.85 PKPbc 05:40:54.794 15.4 2.77 TAS m\_e  
 GEC2 147.69 PKPbc 05:40:51.662 -0.2 15.4 2.77 TAS m\_e  
 GRA1 147.39 PKPbc 05:40:51.138 0.0 15.4 2.77 TAS m\_e  
 IBBN 145.31 PKPbc 05:40:44.793 0.5 15.4 2.77 TAS m\_e  
 KAST 146.32 PKPbc 05:40:48.397 0.3 15.4 2.77 TAS m\_e  
 MOX 146.40 PKPbc 05:40:48.280 0.2 15.4 2.77 TAS m\_e  
 NEUB 145.85 PKPbc 05:40:47.124 0.4 15.4 2.77 TAS m\_e  
 PLN 146.46 PKPbc 05:40:48.451 -0.1 15.4 2.77 TAS m\_e  
 RUE 144.25 PKPbc 05:40:41.850 0.4 15.4 2.77 TAS m\_e  
 STU 148.61 PKPbc 05:40:54.066 15.4 2.77 TAS m\_e  
 TANN 146.47 PKPbc 05:40:48.659 0.6 15.4 2.77 TAS m\_e  
 TNS 147.28 PKPbc 05:40:51.121 -0.1 15.4 2.77 TAS m\_e  
 UBR 149.53 PKPbc 05:40:56.394 15.4 2.77 TAS m\_e  
 WET 147.59 PKPbc 05:40:51.634 -0.7 15.4 2.77 TAS m\_e  
 WLF 148.06 PKPbc 05:40:53.655 -0.6 15.4 2.77 TAS m\_e  
 WTTA 149.64 PKPbc 05:40:56.367 15.4 2.77 TAS m\_e

Event 1031003 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/31	05:31:30.20	1.91	220.03	37.8450	26.8540	99.0	76.7	80	7.0			23	352	14.55	19.69	m i ke	KAN

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	1031009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	18.23		P	05:35:45.478	-1.3					T__		35.1	1.41	m_e	mb 4.3
BFO	17.06		P	05:35:31.366	-0.3					T__		37.9	1.38	m_e	mb 4.3
BRG	15.92		P	05:35:19.302	2.7					T__		22.8	1.04	m_e	mb 4.2
BSEG	19.69		P	05:35:59.825	-99.9					T__		36.2	1.05	m_e	mb 4.5
BUG	19.37		P	05:36:00.132	-99.9					T__		61.5	1.39	m_e	mb 4.6
CLL	16.64		P	05:35:27.803	1.8					T__		21.9	0.99	m_e	mb 4.2
CLZ	18.16		P	05:35:44.447	-1.8					T__		20.5	1.18	m_e	mb 4.1
FLT1	18.13		P	05:35:44.660	-0.6					T__		71.9	1.88	m_e	mb 4.5
FUR	15.33		P	05:35:13.074	2.9					T__		50.6	0.93	m_e	
GEC2	14.55		P	05:35:03.592	3.7					T__				m_e	
GRA1	16.32		P	05:35:22.595	-0.4					T__		212.9	2.51	m_e	
IBBN	19.67		P	05:36:01.207	-99.9					T__		51.0	1.18	m_e	
KAST	18.66		P	05:35:51.153	-2.0					T__		8.5	0.98	m_e	
MOX	16.77		P	05:35:29.943	1.4					T__		32.9	1.12	m_e	
NEUB	17.08		P	05:35:33.271	1.0					T__		21.9	1.06	m_e	
PLN	16.41		P	05:35:24.836	1.0					T__		13.3	0.98	m_e	
RUE	17.24		P	05:35:34.230	2.1					T__		30.1	1.07	m_e	
STU	16.82		P	05:35:28.584	-0.5					T__		24.4	0.71	m_e	
TANN	16.22		P	05:35:22.111	0.7					T__		22.3	0.86	m_e	
TNS	18.05		P	05:35:43.006	-2.2					T__		81.8	1.57	m_e	
UBR	15.71		P	05:35:16.852	2.5					T__		40.2	0.90	m_e	
WET	15.14		P	05:35:10.698	2.8					T__		37.2	1.21	m_e	
WLF	18.98		P	05:35:54.415	-2.1					T__		38.9	1.04	m_e	

Event 1031008 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/10/31	10:15:24.07			-22.7000	-179.1300				550.0			22		147.92	153.92	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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ASSE	149.59	PKPbc	10:34:11.522	0.4	18.4	2.33	TAS	m_e
BFO	153.66	PKPbc	10:34:20.353		18.4	2.33	TAS	m_e
BRG	150.02	PKPbc	10:34:12.668	-0.3	18.4	2.33	TAS	m_e
BSEG	147.92	PKPbc	10:34:07.350	0.0	18.4	2.33	TAS	m_e
BUG	150.80	PKPbc	10:34:14.104	0.2	18.4	2.33	TAS	m_e
CLL	149.85	PKPbc	10:34:12.167	0.0	18.4	2.33	TAS	m_e
CLZ	149.91	PKPbc	10:34:12.642	0.2	18.4	2.33	TAS	m_e
FLT1	149.28	PKPbc	10:34:10.554	0.2	18.4	2.33	TAS	m_e
GEC2	151.92	PKPbc	10:34:16.890		18.4	2.33	TAS	m_e
GRA1	151.78	PKPbc	10:34:17.169	-0.3	18.4	2.33	TAS	m_e
IBBN	149.89	PKPbc	10:34:12.526	0.0	18.4	2.33	TAS	m_e
KAST	150.87	PKPbc	10:34:14.660	-0.2	18.4	2.33	TAS	m_e
MOX	150.79	PKPbc	10:34:14.508	0.0	18.4	2.33	TAS	m_e
NEUB	150.24	PKPbc	10:34:13.031	0.3	18.4	2.33	TAS	m_e
PLN	150.82	PKPbc	10:34:14.439	0.3	18.4	2.33	TAS	m_e
RETH	149.23	PKPbc	10:34:10.127	-0.0	18.4	2.33	TAS	m_e
RUE	148.59	PKPbc	10:34:09.225	-0.2	18.4	2.33	TAS	m_e
TANN	150.81	PKPbc	10:34:14.667	0.6	18.4	2.33	TAS	m_e
TNS	151.81	PKPbc	10:34:16.990	0.2	18.4	2.33	TAS	m_e
UBR	153.92	PKPbc	10:34:21.250		18.4	2.33	TAS	m_e
WET	151.88	PKPbc	10:34:16.806	-0.6	18.4	2.33	TAS	m_e
WLF	152.68	PKPbc	10:34:19.041		18.4	2.33	TAS	m_e