

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

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

April 2022 UPDATED 25.July 2023

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

Event 20401004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/01	13:05:18.00			-22.5840	170.2660				10.0				6	145.16	150.15	m i ke	USGS

Magnitude	Err	Nsta	Author	OrigID
Ms 5.3			BGR	20401010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	145.16		PKPbc	13:24:54.754	-0.3	39.0		2.86		TAS				m_e	
CLL	146.29		PKPbc	13:24:57.163		39.0		2.86		TAS				m_e	
CLZ	146.87		PKPbc	13:25:00.174	-0.2	39.0		2.86		TAS				m_e	
GOR1	145.60		PKPbc	13:24:56.320	0.2	39.0		2.86		TAS				m_e	
GRA1	148.27		L	14:53:35.256						T__		527.2	19.20	a_e Ms	5.3
MOX	147.36		L	14:54:47.435						T__		446.7	20.30	m_e Ms	5.2
NEUB	146.87		PKPbc	13:25:00.054		39.0		2.86		TAS				m_e	
WLF	150.15		PKPbc	13:25:09.088		39.0		2.86		TAS				m_e	

Event 20402001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/02	04:15:02.43			-23.1560	170.6400				10.0				19	145.75	151.16	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
Ms 5.1			BGR	20402007

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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.16		PKPbc	04:34:55.199		38.8		2.68		TAS				m_e	
BSEG	145.81		PKPbc	04:34:40.654	0.7	38.8		2.68		TAS				m_e	
CLL	146.96		PKPbc	04:34:44.393	0.4	38.8		2.68		TAS				m_e	
CLZ	147.53		PKPbc	04:34:45.543	0.7	38.8		2.68		TAS				m_e	
FLT1	146.82		PKPbc	04:34:43.578	0.5	38.8		2.68		TAS				m_e	
FUR	150.09		PKPbc	04:34:52.832		38.8		2.68		TAS				m_e	
GEC2	148.51		PKPbc	04:34:49.751		38.8		2.68		TAS				m_e	
GOR1	146.26		PKPbc	04:34:41.805	-0.6	38.8		2.68		TAS				m_e	
GRA1	148.93		PKPbc	04:34:50.144		38.8		2.68		TAS				m_e	
GRA1	148.93		L	05:40:59.331						T__		331.8	22.00	a_e Ms	5.1
MOX	148.02		PKPbc	04:34:47.712	0.1	38.8		2.68		TAS				m_e	
MOX	148.02		L	05:41:02.565						T__		397.1	21.60	a_e Ms	5.2
NEUB	147.53		PKPbc	04:34:46.490	0.5	38.8		2.68		TAS				m_e	
PLN	147.93		PKPbc	04:34:47.839	-0.4	38.8		2.68		TAS				m_e	
RETH	147.13		PKPbc	04:34:45.351	-0.3	38.8		2.68		TAS				m_e	
RUE	145.75		PKPbc	04:34:40.624	-0.2	38.8		2.68		TAS				m_e	
STU	150.47		PKPbc	04:34:53.949		38.8		2.68		TAS				m_e	
TANN	147.86		PKPbc	04:34:47.356	-1.1	38.8		2.68		TAS				m_e	
TNS	149.55		PKPbc	04:34:51.582		38.8		2.68		TAS				m_e	
UBR	150.96		PKPbc	04:34:54.286		38.8		2.68		TAS				m_e	
WLF	150.81		PKPbc	04:34:54.887		38.8		2.68		TAS				m_e	

Event 20402002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/02	10:45:56.05			-22.7540	172.4670				33.0			12		146.00	151.35	m i ke	BGR
20402008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	20402008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	146.00		PKPbc	11:05:32.901	-0.6	35.5		2.64		TAS				m_e	
CLZ	147.78		PKPbc	11:05:38.383	0.2	35.5		2.64		TAS				m_e	
FLT1	147.08		PKPbc	11:05:35.803	0.2	35.5		2.64		TAS				m_e	
GEC2	148.96		PKPbc	11:05:40.801		35.5		2.64		TAS				m_e	
GOR1	146.50		PKPbc	11:05:34.675	0.0	35.5		2.64		TAS				m_e	
GRA1	149.28		L	12:10:30.368						T__		730.5	19.80	a_e Ms	5.5
GTTG	148.17		PKPbc	11:05:39.350	0.1	35.5		2.64		TAS				m_e	
MOX	148.35		L	12:09:41.646						T__		637.5	20.10	a_e Ms	5.4
NEUB	147.84		PKPbc	11:05:38.302		35.5		2.64		TAS				m_e	
PLN	148.28		PKPbc	11:05:39.431		35.5		2.64		TAS				m_e	
STU	150.78		PKPbc	11:05:45.879		35.5		2.64		TAS				m_e	
TANN	148.22		PKPbc	11:05:39.269		35.5		2.64		TAS				m_e	
TNS	149.80		PKPbc	11:05:43.380		35.5		2.64		TAS				m_e	

UBR 151.35 PKPbc 11:05:46.847 35.5 2.64 TAS m_e

Event 20402003 Southeast of Loyalty Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2022/04/02 18:45:00.00 -22.6830 170.5360 10.0 14 145.28 149.08 m i ke USGS
20402021

Magnitude Err Nsta Author OrigID
Ms 5.2 BGR 20402009

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, BSEG, CLL, CLZ, FLT1, GOR1, GRA1, GTTG, IBBN, MOX, NEUB, PLN, RUE, TANN, TNS.

Event 20402004 Tonga Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2022/04/02 22:05:22.53 -16.1790 -173.8580 33.0 13 143.84 147.79 m i ke BGR
20402010

Magnitude Err Nsta Author OrigID
Ms 4.6 BGR 20402010

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Rows include station data for BFO, BUG, CLL, CLZ.

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FUR	147.73	PKPbc	22:25:03.846	8.8	3.03	TAS	m_e	
GEC2	146.75	PKPbc	22:25:00.935	8.8	3.03	TAS	m_e	
GRA1	146.23	L	23:34:21.037			T__	140.5 19.60 a_e Ms 4.8	
GTTG	144.49	PKPbc	22:24:54.102	0.1	8.8	3.03	TAS	m_e
IBBN	143.84	PKPbc	22:24:52.077	-0.1	8.8	3.03	TAS	m_e
KAST	144.92	PKPbc	22:24:55.367	-0.0	8.8	3.03	TAS	m_e
MOX	145.24	PKPbc	22:24:56.379	0.1	8.8	3.03	TAS	m_e
MOX	145.24	L	23:28:13.591			T__	87.5 21.60 a_e Ms 4.5	
PLN	145.34	PKPbc	22:24:56.633	0.3	8.8	3.03	TAS	m_e
TANN	145.38	PKPbc	22:24:56.886	0.0	8.8	3.03	TAS	m_e
WLF	146.50	PKPbc	22:25:00.809	0.1	8.8	3.03	TAS	m_e

Event 20402005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/02	23:06:22.92			-22.9940	172.8830				33.0			13		146.35	151.83	m i ke	BGR
20402011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	147.80		PKPbc	23:26:05.048	-0.1	35.0		2.60		TAS					m_e
BFO	151.83		PKPbc	23:26:14.893		35.0		2.60		TAS					m_e
BSEG	146.35		PKPbc	23:26:00.806	-0.6	35.0		2.60		TAS					m_e
CLL	147.68		PKPbc	23:26:04.417	0.3	35.0		2.60		TAS					m_e
CLZ	148.14		PKPbc	23:26:06.283	0.0	35.0		2.60		TAS					m_e
FLT1	147.44		PKPbc	23:26:03.786	0.4	35.0		2.60		TAS					m_e
GEC2	149.35		PKPbc	23:26:09.174		35.0		2.60		TAS					m_e
GOR1	146.86		PKPbc	23:26:02.622	0.1	35.0		2.60		TAS					m_e
KAST	149.31		PKPbc	23:26:09.046	0.5	35.0		2.60		TAS					m_e
NEUB	148.21		PKPbc	23:26:06.272	0.2	35.0		2.60		TAS					m_e
PLN	148.66		PKPbc	23:26:07.363	-0.5	35.0		2.60		TAS					m_e
UBR	151.72		PKPbc	23:26:14.636		35.0		2.60		TAS					m_e
WLF	151.34		PKPbc	23:26:14.938		35.0		2.60		TAS					m_e

Event 20404001 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/04	10:29:06.66			37.5590	141.0760				49.6	1.2		12		79.37	84.61	m i ke	BGR
20404007																	

Magnitude Err Nsta Author OrigID
mb 5.6 BGR 20404007

Ms 5.2 BGR 20404007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	83.28		P	10:41:28.895	0.1	37.9		5.23		TAS		43.2	1.13	m_e mb	5.6
AHRW	83.28		pP	10:41:43.232						T__				m_e	
ASSE	80.67		P	10:41:15.287	0.4	37.9		5.23		TAS		40.8	1.21	m_e mb	5.3
BFO	84.61		P	10:41:35.527		37.9		5.23		TAS		66.4	0.99	m_e mb	5.8
BFO	84.61		pP	10:41:50.184						T__				m_e	
BSEG	79.37		P	10:41:08.426	0.1	37.9		5.23		TAS		62.6	1.06	m_e mb	5.6
CLL	80.41		P	10:41:13.572	0.5	37.9		5.23		TAS		60.2	0.94	m_e mb	5.6
CLL	80.41		pP	10:41:27.684						T__				m_e	
CLZ	81.01		P	10:41:17.345	-0.3	37.9		5.23		TAS		64.9	1.05	m_e mb	5.6
FLT1	80.30		P	10:41:12.771	0.1	37.9		5.23		TAS		57.5	1.02	m_e mb	5.5
FUR	83.57		P	10:41:30.496		37.9		5.23		TAS		87.9	1.04	m_e mb	5.9
GEC2	82.03		P	10:41:22.262		37.9		5.23		TAS		25.2	0.94	m_e mb	5.3
GEC2	82.03		pP	10:41:36.523						T__				m_e	
GRA1	82.38		P	10:41:24.664		37.9		5.23		TAS		75.1	1.04	m_e mb	5.8
GRA1	82.38		L	11:22:43.843						T__		936.6	18.80	a_e Ms	5.2
IBBN	81.60		P	10:41:19.763		37.9		5.23		TAS		60.9	0.99	m_e mb	5.7
MOX	81.48		P	10:41:19.518	-0.3	37.9		5.23		TAS		23.5	1.10	m_e mb	5.2
MOX	81.48		L	11:22:14.243						T__		893.2	20.00	a_e Ms	5.1
STU	83.92		P	10:41:32.211		37.9		5.23		TAS		203.7	1.17	m_e mb	6.2

Event 20404002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/04	14:13:34.00			47.6300	154.1380				30.0			15		75.38	79.92	m i ke	USGS
	20404020																

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	20404008
Ms	5.1		BGR	20404008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.05		P	14:25:31.765	0.1	24.7		5.68		TAS		51.0	0.98	m_e mb	5.6
BFO	79.79		P	14:25:41.111	-0.4	24.7		5.68		TAS		52.6	0.99	m_e mb	5.4
BUG	77.17		P	14:25:26.524	-0.1	24.7		5.68		TAS		54.7	1.11	m_e mb	5.6
CLL	75.83		P	14:25:18.575	-0.4	24.7		5.68		TAS		81.9	0.94	m_e mb	5.8
CLZ	76.04		P	14:25:20.671	0.4	24.7		5.68		TAS		54.4	0.98	m_e mb	5.7
FLT1	75.38		P	14:25:15.867	-0.6	24.7		5.68		TAS		28.8	0.80	m_e mb	5.4
FUR	79.15		P	14:25:37.967	0.1	24.7		5.68		TAS		84.2	0.82	m_e mb	5.8
GEC2	77.85		P	14:25:30.367	0.0	24.7		5.68		TAS		30.7	0.90	m_e mb	5.4
GRA1	77.78		P	14:25:30.629	0.6	24.7		5.68		TAS		106.4	0.83	m_e mb	6.0
GRA1	77.78		L	15:02:48.639						T__		898.8	21.20	m_e Ms	5.1
KAST	77.12		P	14:25:26.611	0.3	24.7		5.68		TAS		41.4	0.87	m_e mb	5.6
MOX	76.81		P	14:25:24.602	0.1	24.7		5.68		TAS		44.2	1.04	m_e mb	5.5

MOX	76.81	L	15:02:20.303							T__	936.7	20.80	a_e	Ms	5.1
PLN	76.81	P	14:25:24.515	0.0	24.7	5.68				TAS	10.0	0.81	m_e	mb	5.0
TANN	76.79	P	14:25:24.428	0.1	24.7	5.68				TAS	13.6	0.78	m_e	mb	5.1
TNS	78.01	P	14:25:31.503	0.1	24.7	5.68				TAS	46.8	0.79	m_e	mb	5.7
UBR	79.92	P	14:25:41.985	-0.2	24.7	5.68				TAS	26.6	0.83	m_e	mb	5.2

Event 20405001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/05	00:46:04.64			-22.3640	172.2780				0.0			8		145.58	150.92	m i ke	BGR
OrigID 20405007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	145.58		PKPbc	01:05:45.164	0.1	35.5		2.69		TAS				m_e	
CLL	146.88		PKPbc	01:05:48.651	0.5	35.5		2.69		TAS				m_e	
FLT1	146.66		PKPbc	01:05:47.604		35.5		2.69		TAS				m_e	
GEC2	148.53		PKPbc	01:05:53.267		35.5		2.69		TAS				m_e	
IBBN	147.75		PKPbc	01:05:51.410		35.5		2.69		TAS				m_e	
TANN	147.80		PKPbc	01:05:51.159		35.5		2.69		TAS				m_e	
TNS	149.37		PKPbc	01:05:55.881		35.5		2.69		TAS				m_e	
UBR	150.92		PKPbc	01:05:58.831		35.5		2.69		TAS				m_e	

Event 20405002 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/05	15:03:52.12			37.7440	141.8070				33.0			22		79.47	84.74	m i ke	BGR
OrigID 20405008																	

Magnitude Err Nsta Author OrigID

mb	5.5		BGR	20405008
Ms	4.2		BGR	20405008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	83.39		P	15:16:14.709	0.1	37.2		5.21		TAS		34.0	1.04	m_e	mb	5.5
ASSE	80.78		P	15:16:01.038	-0.1	37.2		5.21		TAS		24.9	0.96	m_e	mb	5.2
BFO	84.74		P	15:16:21.592	-0.4	37.2		5.21		TAS		66.6	0.92	m_e	mb	5.9
BSEG	79.47		P	15:15:54.251	0.0	37.2		5.21		TAS		70.1	1.03	m_e	mb	5.5
BUG	82.57		P	15:16:10.311	-0.1	37.2		5.21		TAS		30.6	0.76	m_e	mb	5.6
CLL	80.54		P	15:15:59.509	-0.4	37.2		5.21		TAS		64.3	0.98	m_e	mb	5.6
CLZ	81.12		P	15:16:03.237	0.3	37.2		5.21		TAS		49.2	0.87	m_e	mb	5.5
FLT1	80.41		P	15:15:58.744	-0.5	37.2		5.21		TAS		58.9	0.97	m_e	mb	5.6

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FUR	83.71	P	15:16:16.717		37.2	5.21	TAS	85.0	0.76	m_e	mb	6.0
GEC2	82.18	P	15:16:08.399	-0.2	37.2	5.21	TAS	16.3	0.71	m_e	mb	5.3
GOR1	79.86	P	15:15:56.545	0.2	37.2	5.21	TAS	34.3	0.94	m_e	mb	5.3
GRA1	82.51	P	15:16:10.789	0.1	37.2	5.21	TAS	65.6	0.97	m_e	mb	5.8
GRA1	82.51	L	15:57:06.448				T__	100.8	20.70	a_e	Ms	4.2
GTTG	81.51	P	15:16:05.149	0.2	37.2	5.21	TAS	51.5	0.97	m_e	mb	5.6
IBBN	81.69	P	15:16:05.818	0.0	37.2	5.21	TAS	66.0	0.70	m_e	mb	5.9
KAST	82.36	P	15:16:09.355	0.0	37.2	5.21	TAS	22.9	0.90	m_e	mb	5.3
MOX	81.60	P	15:16:05.436	0.0	37.2	5.21	TAS	14.7	0.76	m_e	mb	5.2
MOX	81.60	L	15:56:36.752				T__	135.1	18.50	a_e	Ms	4.3
NEUB	81.11	P	15:16:02.663	-0.2	37.2	5.21	TAS	59.3	0.99	m_e	mb	5.6
PLN	81.52	P	15:16:05.053	0.0	37.2	5.21	TAS	5.1	0.92	m_e	mb	4.7
STU	84.04	P	15:16:18.246	0.3	37.2	5.21	TAS	256.6	1.37	m_e	mb	6.3
TANN	81.45	P	15:16:04.671	0.0	37.2	5.21	TAS	11.2	0.96	m_e	mb	5.0
TNS	83.14	P	15:16:13.466	0.6	37.2	5.21	TAS	16.2	0.81	m_e	mb	5.3
UBR	84.57	P	15:16:20.540		37.2	5.21	TAS	18.2	0.99	m_e	mb	5.3

Event 20405003 South of Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/05	20:24:28.00			-24.6830	-175.0310				33.0			8		150.43	153.30	m i ke	BGR
20405009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	152.17		PKPbc	20:44:20.775	0.2	13.3		2.17		TAS					m_e
BSEG	150.43		PKPbc	20:44:16.911	-0.1	13.3		2.17		TAS					m_e
CLL	152.63		PKPbc	20:44:21.623		13.3		2.17		TAS					m_e
CLZ	152.48		PKPbc	20:44:21.623	-0.1	13.3		2.17		TAS					m_e
FLT1	151.90		PKPbc	20:44:19.927	0.1	13.3		2.17		TAS					m_e
GOR1	151.25		PKPbc	20:44:18.796	0.1	13.3		2.17		TAS					m_e
KAST	153.30		PKPbc	20:44:23.225		13.3		2.17		TAS					m_e
RUE	151.37		PKPbc	20:44:18.984	0.0	13.3		2.17		TAS					m_e

Event 20406001 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/05	23:50:18.92			28.6660	103.4690				33.0			8		68.01	73.10	m i ke	BGR
20406007																	

Magnitude Err Nsta Author OrigID

mb	5.3		BGR	20406007
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Ms 4.1 BGR 20406007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	68.01		P	00:01:14.264	-0.6	69.0		6.15		TAS		11.6	0.76	m_e	mb 5.2
BSEG	69.08		P	00:01:21.262	-0.1	69.0		6.15		TAS		30.9	0.82	m_e	mb 5.6
CLL	68.43		P	00:01:16.457	0.4	69.0		6.15		TAS		9.6	0.77	m_e	mb 5.1
CLZ	69.78		P	00:01:25.231	0.2	69.0		6.15		TAS		19.5	0.72	m_e	mb 5.3
FUR	70.57		P	00:01:30.662	-0.3	69.0		6.15		TAS		26.7	0.70	m_e	mb 5.5
GEC2	68.83		P	00:01:19.651		69.0		6.15		TAS		8.8	0.80	m_e	mb 5.0
GRA1	70.05		P	00:01:27.097		69.0		6.15		TAS		15.6	0.93	m_e	mb 5.1
GRA1	70.05		L	00:34:32.873						T__		132.7	18.00	a_e	Ms 4.2
MOX	69.48		L	00:34:22.914						T__		74.8	18.70	a_e	Ms 4.0
WLF	73.10		P	00:01:45.503		69.0		6.15		TAS		33.4	0.83	m_e	mb 5.5

Event 20406002 Off west coast of northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/06	05:29:40.10			5.4810	93.9360				25.5	0.5		16		79.46	83.67	m i ke	BGR
OrigID 20406008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	20406008
Ms	5.0		BGR	20406008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	81.57		P	05:41:54.047	-0.5	92.0		5.31		TAS		45.1	1.38	m_e	mb 5.4
BFO	83.03		P	05:42:01.817		92.0		5.31		TAS		14.6	0.96	m_e	mb 5.2
BFO	83.03		pP	05:42:09.206						T__				m_e	
BRG	79.46		P	05:41:42.809	0.2	92.0		5.31		TAS		39.5	1.43	m_e	mb 5.2
BSEG	81.84		P	05:41:55.573	-0.0	92.0		5.31		TAS		82.9	1.20	m_e	mb 5.7
BUG	83.67		P	05:42:05.286	-0.2	92.0		5.31		TAS		28.3	0.92	m_e	mb 5.5
CLL	80.08		P	05:41:45.861	0.0	92.0		5.31		TAS		26.4	1.30	m_e	mb 5.0
CLZ	81.74		P	05:41:55.157	-0.2	92.0		5.31		TAS		21.2	0.86	m_e	mb 5.3
CLZ	81.74		pP	05:42:02.597						T__				m_e	
GEC2	79.48		P	05:41:43.364		92.0		5.31		TAS		32.1	0.97	m_e	mb 5.3
GEC2	79.48		pP	05:41:50.757						T__				m_e	
GOR1	81.21		P	05:41:53.215	0.9	92.0		5.31		TAS		64.2	1.27	m_e	mb 5.5
GRA1	81.14		P	05:41:52.521		92.0		5.31		TAS		28.7	1.00	m_e	mb 5.3
GRA1	81.14		pP	05:41:59.734						T__				m_e	
GRA1	81.14		L	06:25:15.875						T__		463.4	21.60	a_e	Ms 4.8
GTTG	81.99		P	05:41:56.267	-0.2	92.0		5.31		TAS		29.4	0.97	m_e	mb 5.4
MOX	80.92		P	05:41:50.579	-0.2	92.0		5.31		TAS		17.1	1.17	m_e	mb 5.0
MOX	80.92		L	06:23:24.413						T__		866.8	18.40	a_e	Ms 5.1
PLN	80.57		P	05:41:48.775		92.0		5.31		TAS		4.1	1.03	m_e	mb 4.4
TANN	80.38		P	05:41:47.942		92.0		5.31		TAS		21.0	1.33	m_e	mb 4.9
TNS	82.94		P	05:42:01.678		92.0		5.31		TAS		15.9	0.95	m_e	mb 5.2

UBR 81.84 P 05:41:55.712 92.0 5.31 TAS 13.5 0.83 m_e mb 5.1

Event 20407008 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/07	16:58:47.00	0.42	1.01	51.4450	16.0570	6.7	2.2	16	1.0		16	197	0.62	3.56	m i ki	BGR
OrigID 20407014																

Magnitude	Err	Nsta	Author	OrigID
ML	4.2		BGR	20407014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	1.45		Sg	16:59:33.290	0.3					T__				m_e	
BRG	1.45		Pn	16:59:12.495	-1.0					T__				m_e ML	3.9
CLL	1.92		Sg	16:59:48.808	0.9					T__				m_e	
CLL	1.92		Pn	16:59:18.525	-1.3					T__				m_e ML	4.0
CLZ	3.56		Pn	16:59:42.684	0.7					T__				m_e ML	4.4
DPC	1.11		Sg	16:59:22.850	0.6					T__				m_e	
DPC	1.11		Pg	16:59:07.387	-0.5					T__				m_e ML	4.2
FBE	1.78		Sg	16:59:42.113	-1.4					T__				m_e	
FBE	1.78		Pn	16:59:15.990	-2.0					T__				m_e ML	3.9
GEC2	3.01		Sg	17:00:21.218	-1.4					T__				m_e	
GEC2	3.01		Pn	16:59:35.526	1.0					T__				m_e ML	4.3
GEC2	3.01		Pg	16:59:42.581	-1.1					T__				m_e	
GRA1	3.55		Sg	17:00:40.824	1.3					T__				m_e	
GRA1	3.55		Pn	16:59:43.112	1.3					T__				m_e ML	4.8
KSP	0.62		Sg	16:59:07.918	1.2					T__				m_e	
KSP	0.62		Pg	16:58:58.648	-0.1					T__				m_e ML	3.9
MANZ	2.90		Sg	17:00:20.685	1.5					T__				m_e ML	4.4
MORC	1.92		Sg	16:59:47.240	-0.7					T__				m_e	
MORC	1.92		Pn	16:59:19.140	-0.7					T__				m_e ML	4.4
MOX	2.91		Sg	17:00:20.559	1.0					T__				m_e ML	4.4
OJC	2.67		Sg	17:00:13.371	1.6					T__				m_e ML	4.3
OKC	2.09		Sg	16:59:53.086	-0.2					T__				m_e	
OKC	2.09		Pn	16:59:21.131	-1.0					T__				m_e ML	3.8
ROTZ	2.97		Sg	17:00:20.024	-1.3					T__				m_e	
ROTZ	2.97		Pn	16:59:34.110	0.1					T__				m_e ML	4.2
ROTZ	2.97		Pg	16:59:43.714	0.7					T__				m_e	
TANN	2.50		Sg	17:00:06.477	0.2					T__				m_e	
TANN	2.50		Pn	16:59:27.636						T__				m_e ML	4.2
WERD	2.57		Sg	17:00:07.878	-0.8					T__				m_e	
WERD	2.57		Pn	16:59:28.650	-0.0					T__				m_e ML	4.3
WERD	2.57		Pg	16:59:36.638	1.2					T__				m_e	

Event 20408002 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/08	18:59:42.23			-22.8310	-177.0450				33.0			23		148.36	154.47	m i ke	BGR
OrigID 20408008																	

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
AHRW	152.07		PKPbc	19:19:34.944	0.2	16.6		2.34		TAS					m_e
ASSE	150.07		PKPbc	19:19:29.610	-0.2	16.6		2.34		TAS					m_e
BFO	154.11		PKPbc	19:19:39.316	0.0	16.6		2.34		TAS					m_e
BRG	150.65		PKPbc	19:19:31.215	0.1	16.6		2.34		TAS					m_e
BSEG	148.36		PKPbc	19:19:25.682	-0.1	16.6		2.34		TAS					m_e
BUG	151.16		PKPbc	19:19:32.650	0.1	16.6		2.34		TAS					m_e
CLL	150.44		PKPbc	19:19:30.770	0.2	16.6		2.34		TAS					m_e
CLZ	150.39		PKPbc	19:19:30.414	-0.1	16.6		2.34		TAS					m_e
FLT1	149.79		PKPbc	19:19:29.091	0.0	16.6		2.34		TAS					m_e
FUR	153.78		PKPbc	19:19:38.223	-0.2	16.6		2.34		TAS					m_e
GEC2	152.60		PKPbc	19:19:35.835	0.1	16.6		2.34		TAS					m_e
GRA1	152.33		PKPbc	19:19:35.019	0.0	16.6		2.34		TAS					m_e
GTTG	150.74		PKPbc	19:19:31.281	-0.1	16.6		2.34		TAS					m_e
IBBN	150.26		PKPbc	19:19:30.267	-0.2	16.6		2.34		TAS					m_e
KAST	151.28		PKPbc	19:19:32.818	0.1	16.6		2.34		TAS					m_e
MOX	151.34		PKPbc	19:19:32.853	0.1	16.6		2.34		TAS					m_e
NEUB	150.79		PKPbc	19:19:31.430	0.0	16.6		2.34		TAS					m_e
RUE	149.18		PKPbc	19:19:27.719	0.1	16.6		2.34		TAS					m_e
STU	153.56		PKPbc	19:19:37.717	-0.2	16.6		2.34		TAS					m_e
TANN	151.40		PKPbc	19:19:32.913	0.1	16.6		2.34		TAS					m_e
TNS	152.24		PKPbc	19:19:35.092	0.1	16.6		2.34		TAS					m_e
UBR	154.47		PKPbc	19:19:39.895	-0.1	16.6		2.34		TAS					m_e
WLF	153.01		PKPbc	19:19:37.148	0.1	16.6		2.34		TAS					m_e

Event 20408003 Taiwan region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/08	19:19:38.71			22.4960	121.6780				33.0					85.40	85.40	m i ke	BGR
OrigID 20408009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	20408009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	85.40		P	19:32:12.410		64.1		4.37		TAS		7.1	0.79	m_e mb	5.0

Event 20409001 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	14:02:15.66			37.5290	38.9090				33.0			19		21.47	26.41	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	20409007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	26.09		P	14:07:46.894	0.5	111.0		9.94		TAS		16.4	0.96	m_e mb	4.6
BFO	24.69		P	14:07:33.919		111.0		9.94		TAS		15.5	0.91	m_e mb	4.7
BRG	22.18		P	14:07:06.950	-0.5	111.0		9.94		TAS				m_e	
BSEG	25.57		P	14:07:41.154	1.5	111.0		9.94		TAS		55.5	0.94	m_e mb	5.2
BUG	26.26		P	14:07:47.911	0.5	111.0		9.94		TAS		26.6	1.00	m_e mb	4.8
CLL	22.90		P	14:07:15.441	-0.9	111.0		9.94		TAS		33.2	0.94	m_e mb	4.8
CLZ	24.61		P	14:07:32.424	0.1	111.0		9.94		TAS		51.6	0.88	m_e mb	5.3
FLT1	24.34		P	14:07:28.896	0.0	111.0		9.94		TAS		10.5	0.82	m_e mb	4.4
FUR	22.75		P	14:07:15.441		111.0		9.94		TAS		92.6	0.97	m_e mb	5.3
GEC2	21.47		P	14:06:59.535	1.2	111.0		9.94		TAS		17.6	0.79	m_e mb	4.5
GRA1	23.29		P	14:07:20.584	-0.1	111.0		9.94		TAS		52.6	0.86	m_e mb	5.1
GTTG	24.73		P	14:07:33.620	-1.1	111.0		9.94		TAS		40.9	1.00	m_e mb	5.1
IBBN	26.28		P	14:07:48.509	-0.3	111.0		9.94		TAS		26.8	0.84	m_e mb	4.9
KAST	25.50		P	14:07:40.556	-0.9	111.0		9.94		TAS		51.7	0.94	m_e mb	5.1
MOX	23.41		P	14:07:20.644	-0.4	111.0		9.94		TAS		10.6	0.89	m_e mb	4.4
NEUB	23.55		P	14:07:20.441		111.0		9.94		TAS				m_e	
STU	24.25		P	14:07:28.656	1.7	111.0		9.94		TAS		66.8	0.83	m_e mb	5.2
TANN	22.83		P	14:07:14.425	-0.8	111.0		9.94		TAS				m_e	
TNS	25.15		P	14:07:38.583	1.0	111.0		9.94		TAS		17.6	1.05	m_e mb	4.7
UBR	23.37		P	14:07:20.468		111.0		9.94		TAS		15.6	0.86	m_e mb	4.6
WLF	26.41		P	14:07:49.645	-1.9	111.0		9.94		TAS		18.3	0.90	m_e mb	4.7

Event 20409002 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	16:29:22.96			52.1600	177.0000				33.0			20		73.56	79.77	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	20409008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	77.19		P	16:41:14.828	-0.1	9.0		5.59		TAS		22.7	1.09	m_e mb	5.2

BFO	79.29	P	16:41:26.397		9.0	5.59	TAS	10.6	0.92	m_e mb	4.9
BRG	76.22	P	16:41:09.023	-0.0	9.0	5.59	TAS	10.6	0.99	m_e mb	4.9
BSEG	73.56	P	16:40:54.355	-0.1	9.0	5.59	TAS	30.9	0.99	m_e mb	5.3
BUG	76.28	P	16:41:09.355	-0.3	9.0	5.59	TAS	14.6	1.02	m_e mb	5.0
CLL	75.89	P	16:41:07.528	-0.3	9.0	5.59	TAS	20.1	1.24	m_e mb	5.1
CLZ	75.63	P	16:41:05.659	-0.1	9.0	5.59	TAS	26.8	1.03	m_e mb	5.3
FLT1	75.07	P	16:41:02.563	-0.3	9.0	5.59	TAS	20.1	1.10	m_e mb	5.1
GEC2	78.24	P	16:41:20.772		9.0	5.59	TAS	7.9	0.96	m_e mb	4.8
GRA1	77.68	P	16:41:17.568		9.0	5.59	TAS	22.9	1.03	m_e mb	5.2
GTTG	75.96	P	16:41:07.728	0.1	9.0	5.59	TAS	43.1	1.20	m_e mb	5.5
IBBN	75.38	P	16:41:04.625	0.3	9.0	5.59	TAS	54.3	1.05	m_e mb	5.6
KAST	76.43	P	16:41:10.336	0.1	9.0	5.59	TAS	9.4	0.94	m_e mb	4.9
MOX	76.69	P	16:41:11.733	0.1	9.0	5.59	TAS	12.6	1.09	m_e mb	5.0
NEUB	76.14	P	16:41:08.473	0.1	9.0	5.59	TAS	29.1	0.97	m_e mb	5.4
STU	78.78	P	16:41:23.549		9.0	5.59	TAS	30.6	0.85	m_e mb	5.4
TANN	76.83	P	16:41:12.671	-0.1	9.0	5.59	TAS	8.0	1.03	m_e mb	4.8
TNS	77.40	P	16:41:15.763	-0.1	9.0	5.59	TAS	9.7	0.78	m_e mb	5.0
UBR	79.77	P	16:41:29.103		9.0	5.59	TAS	13.2	1.05	m_e mb	4.8
WLF	78.12	P	16:41:19.876		9.0	5.59	TAS	15.1	1.03	m_e mb	5.1

Event 20409003 Taiwan region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	16:44:04.12			22.6770	118.5180				33.0			9		81.37	86.34	m i ke	BGR
OrigID 20409009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	20409009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	81.37		P	16:56:17.657	0.1	62.5		5.14		TAS		16.0	1.22	m_e mb	4.9
CLL	81.71		P	16:56:19.178	-0.2	62.5		5.14		TAS		14.0	0.98	m_e mb	5.0
CLZ	82.93		P	16:56:25.804	0.2	62.5		5.14		TAS		10.2	0.99	m_e mb	5.0
FLT1	82.23		P	16:56:21.701	-0.3	62.5		5.14		TAS		10.2	0.88	m_e mb	5.0
GEC2	82.39		P	16:56:23.225	0.4	62.5		5.14		TAS		11.4	0.93	m_e mb	5.0
MOX	82.79		P	16:56:25.226	0.3	62.5		5.14		TAS		5.9	0.92	m_e mb	4.8
TANN	82.42		P	16:56:22.588	-0.4	62.5		5.14		TAS		9.5	1.14	m_e mb	4.8
UBR	85.06		P	16:56:36.115	-0.4	62.5		5.14		TAS		6.5	1.01	m_e mb	4.8
WLF	86.34		P	16:56:43.344	0.2	62.5		5.14		TAS		11.8	0.91	m_e mb	5.0

Event 20409004 South of Fiji Islands

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

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2022/04/09 19:35:10.10
20409010

-23.4020 175.4010

33.0

8

148.61 153.02 m i ke BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	153.02		PKPbc	19:55:04.570	-0.3	31.0		2.47		TAS				m_e	
BRG	148.98		PKPbc	19:54:54.739	-0.2	31.0		2.47		TAS				m_e	
CLL	148.94		PKPbc	19:54:54.788	-0.1	31.0		2.47		TAS				m_e	
FLT1	148.61		PKPbc	19:54:53.850	-0.3	31.0		2.47		TAS				m_e	
FUR	152.19		PKPbc	19:55:02.426	-0.4	31.0		2.47		TAS				m_e	
GEC2	150.73		PKPbc	19:54:58.852	-2.0	31.0		2.47		TAS				m_e	
MOX	149.96		PKPbc	19:54:56.998	0.2	31.0		2.47		TAS				m_e	
STU	152.36		PKPbc	19:55:03.182	-0.4	31.0		2.47		TAS				m_e	
TANN	149.88		PKPbc	19:54:56.798	0.3	31.0		2.47		TAS				m_e	
UBR	153.02		PKPbc	19:55:04.619		31.0		2.47		TAS				m_e	

Event 20409005 Vanuatu

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	20:52:37.10		-16.2460	166.8320					10.0					138.00	143.41	m i ke	EMSC
20409041																	

Magnitude Err Nsta Author OrigID
Ms 6.2 BGR 20409011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	142.04		PKPdf	21:12:07.342		38.1		1.22		TAS				m_e	
ASSE	139.46		PKPdf	21:12:04.776		38.1		1.22		TAS				m_e	
BFO	143.41		PKPdf	21:12:08.664		38.1		1.22		TAS				m_e	
BRG	139.15		PKPdf	21:12:03.845		38.1		1.22		TAS				m_e	
BSEG	138.11		PKPdf	21:12:01.844		38.1		1.22		TAS				m_e	
BUG	141.22		PKPdf	21:12:08.166		38.1		1.22		TAS				m_e	
CLL	139.21		PKPdf	21:12:04.678		38.1		1.22		TAS				m_e	
CLZ	139.80		PKPdf	21:12:05.487		38.1		1.22		TAS				m_e	
FLT1	139.09		PKPdf	21:12:04.470		38.1		1.22		TAS				m_e	
FUR	142.33		PKPdf	21:12:08.247		38.1		1.22		TAS				m_e	
GEC2	140.75		PKPdf	21:12:07.917		38.1		1.22		TAS				m_e	
GOR1	138.53		PKPdf	21:12:03.444		38.1		1.22		TAS				m_e	
GRA1	141.18		PKPdf	21:12:07.095		38.1		1.22		TAS				m_e	
GRA1	141.18		L	22:15:17.524						T__		5835.4	21.50	a_e Ms	6.3
GTTG	140.19		PKPdf	21:12:07.344		38.1		1.22		TAS				m_e	
IBBN	140.32		PKPdf	21:12:07.193		38.1		1.22		TAS				m_e	
KAST	141.03		PKPdf	21:12:07.958		38.1		1.22		TAS				m_e	
MOX	140.27		PKPdf	21:12:06.431		38.1		1.22		TAS				m_e	
MOX	140.27		L	22:16:53.284						T__		4618.3	21.40	a_e Ms	6.2

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NEUB	139.78	PKPdf	21:12:06.621	38.1	1.22	TAS	m_e
PLN	140.18	PKPdf	21:12:06.129	38.1	1.22	TAS	m_e
RUE	138.00	PKPdf	21:12:02.259	38.1	1.22	TAS	m_e
STU	142.72	PKPdf	21:12:08.725	38.1	1.22	TAS	m_e
TANN	140.11	PKPdf	21:12:05.341	38.1	1.22	TAS	m_e
TNS	141.82	PKPdf	21:12:07.343	38.1	1.22	TAS	m_e
UBR	143.20	PKPdf	21:12:09.172	38.1	1.22	TAS	m_e
WLF	143.10	PKPdf	21:12:09.033	38.1	1.22	TAS	m_e

Event 20409007 Azores Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	22:34:32.85			37.0090	-32.0880				10.0					33.47	33.47	m i ke	BGR
OrigID 20409013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	20409013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	33.47		P	22:41:11.611		262.9		8.40		TAS		12.5	1.08	m_e mb	4.6

Event 20409008 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	23:09:12.38			27.8800	-43.1800				10.0				21	43.23	48.44	m i ke	BGR
OrigID 20409014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	20409014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	43.99		P	23:17:17.528	-0.0	262.4		7.89		TAS		13.1	0.98	m_e mb	4.6
ASSE	46.50		P	23:17:36.842	0.1	262.4		7.89		TAS		19.8	0.89	m_e mb	5.2
BFO	44.42		P	23:17:20.276		262.4		7.89		TAS		14.0	0.95	m_e mb	4.7
BRG	48.35		P	23:17:51.307	-1.0	262.4		7.89		TAS		5.9	0.83	m_e mb	4.8
BSEG	46.63		P	23:17:37.084	0.0	262.4		7.89		TAS		69.1	0.97	m_e mb	5.8
BUG	44.30		P	23:17:19.319	-0.0	262.4		7.89		TAS		15.3	0.91	m_e mb	4.7
CLL	47.81		P	23:17:47.186	-0.2	262.4		7.89		TAS		15.9	0.84	m_e mb	5.2
CLZ	46.27		P	23:17:34.983	0.3	262.4		7.89		TAS		36.4	0.99	m_e mb	5.4
FLT1	46.88		P	23:17:39.589	0.1	262.4		7.89		TAS		18.3	0.97	m_e mb	5.2
GEC2	48.02		P	23:17:48.479		262.4		7.89		TAS		3.9	0.77	m_e mb	4.6
GRA1	46.49		P	23:17:36.357		262.4		7.89		TAS		14.3	0.88	m_e mb	5.0
GTTG	45.97		P	23:17:32.882	0.4	262.4		7.89		TAS		20.6	0.97	m_e mb	5.1

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IBBN	44.78	P	23:17:23.185	-0.6	262.4	7.89	TAS	39.5	0.93	m_e	mb	5.3
KAST	44.95	P	23:17:24.348		262.4	7.89	TAS	8.6	0.96	m_e	mb	4.7
MOX	46.86	P	23:17:39.709		262.4	7.89	TAS	9.4	0.86	m_e	mb	4.9
RUE	48.44	P	23:17:51.934	0.1	262.4	7.89	TAS	34.6	0.97	m_e	mb	5.5
STU	45.05	P	23:17:24.860		262.4	7.89	TAS	24.5	0.78	m_e	mb	5.2
TANN	47.37	P	23:17:44.096		262.4	7.89	TAS	6.3	0.79	m_e	mb	4.8
TNS	44.79	P	23:17:23.594		262.4	7.89	TAS	8.2	0.91	m_e	mb	4.7
UBR	45.52	P	23:17:28.793		262.4	7.89	TAS	7.8	0.77	m_e	mb	4.8
WLF	43.23	P	23:17:10.749		262.4	7.89	TAS			m_e		

Event 20409009 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/09	23:16:09.86			30.5300	-41.3200				10.0			11		41.46	45.35	m i ke	BGR
OrigID 20409015																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	20409015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	41.46		P	23:23:54.304		263.3		8.12		TAS		3.9	0.83	m_e	mb	4.2
BRG	45.35		P	23:24:25.742		263.3		8.12		TAS		2.8	0.73	m_e	mb	4.3
BSEG	43.57		P	23:24:11.150	0.5	263.3		8.12		TAS		13.8	0.86	m_e	mb	4.7
CLZ	43.24		P	23:24:08.970	-0.5	263.3		8.12		TAS		5.0	0.89	m_e	mb	4.2
GEC2	45.06		P	23:24:23.525		263.3		8.12		TAS		2.0	0.72	m_e	mb	4.2
GRA1	43.50		P	23:24:10.970	1.0	263.3		8.12		TAS		5.2	0.87	m_e	mb	4.3
IBBN	41.74		P	23:23:56.973	0.2	263.3		8.12		TAS		10.6	0.81	m_e	mb	4.6
MOX	43.86		P	23:24:14.083		263.3		8.12		TAS		2.5	0.79	m_e	mb	4.0
STU	42.08		P	23:23:59.382		263.3		8.12		TAS		12.8	0.80	m_e	mb	4.7
TANN	44.37		P	23:24:17.959		263.3		8.12		TAS		1.8	0.76	m_e	mb	3.9
UBR	42.58		P	23:24:03.338		263.3		8.12		TAS		3.3	0.74	m_e	mb	4.2

Event 20410001 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2022/04/10	00:58:08.16	5.59	0.74	42.2800	20.1500	89.0	18.9	140	5.0				26	324	5.96	10.28	m i ke	BGR
OrigID 20410007																		

Magnitude	Err	Nsta	Author	OrigID
ML	4.5		BGR	20410007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	5.96		Pn	00:59:33.157	-1.9					T__				m_e	ML	3.9

BALST	10.18	Pn	01:00:31.005	-0.9	T__	m_e		
BE1	8.45	Pn	01:00:08.905	0.3	T__	m_e ML	5.0	
BERGE	10.14	Pn	01:00:30.237	-1.1	T__	m_e		
BFO	10.28	Pn	01:00:33.042	-0.2	T__	m_e		
BIOA	7.11	Pn	00:59:50.111	-0.4	T__	m_e ML	4.5	
DAVA	8.85	Pn	01:00:14.387	0.5	T__	m_e		
FETA	8.21	Pn	01:00:05.747	0.3	T__	m_e		
GEC2	7.97	Pn	01:00:02.002	-0.1	T__	m_e		
KBA	6.82	Pn	00:59:46.022	-0.6	T__	m_e ML	4.4	
KHC	8.24	Pn	01:00:05.899	0.1	T__	m_e ML	4.0	
KRUC	7.27	Pn	00:59:53.596	0.9	T__	m_e		
LESA	7.39	Pn	00:59:54.962	0.7	T__	m_e ML	4.4	
MOA	6.95	Pn	00:59:47.670	-0.7	T__	m_e ML	4.2	
MOTA	8.18	Pn	01:00:05.289	0.3	T__	m_e ML	4.7	
PART	8.26	Pn	01:00:06.895	0.8	T__	m_e		
PLONS	9.03	Pn	01:00:16.998	0.6	T__	m_e		
RETA	8.45	Pn	01:00:08.745	0.1	T__	m_e ML	4.7	
RJOB	7.54	Pn	00:59:56.968	0.6	T__	m_e		
SLE	9.90	Pn	01:00:26.794	-1.3	T__	m_e		
SQTA	8.05	Pn	01:00:03.806	0.6	T__	m_e		
SULZ	10.01	Pn	01:00:28.726	-0.9	T__	m_e		
UBR	8.93	Pn	01:00:15.080	0.1	T__	m_e		
WALHA	9.53	Pn	01:00:23.899	0.8	T__	m_e		
WTTA	7.84	Pn	01:00:00.555	0.2	T__	m_e ML	4.7	
ZUGS	8.29	Pn	01:00:07.344	0.9	T__	m_e ML	4.9	

Event 20410003 Off west coast of northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/10	01:32:33.49			5.6700	90.6500				33.0			13		77.18	82.16	m i ke	BGR
OrigID 20410009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	20410009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	79.40		P	01:44:37.253	0.4	95.0		5.32		TAS		12.9	1.09	m_e mb	4.9
BFO	80.70		P	01:44:45.514	-1.1	95.0		5.32		TAS		7.1	0.96	m_e mb	4.7
BRG	77.25		P	01:44:24.553	1.1	95.0		5.32		TAS		4.8	0.86	m_e mb	4.6
BSEG	79.75		P	01:44:39.136	0.4	95.0		5.32		TAS		21.8	1.00	m_e mb	5.0
BUG	81.47		P	01:44:46.517	-1.4	95.0		5.32		TAS		30.8	1.26	m_e mb	5.2
CLZ	79.56		P	01:44:37.195	-0.5	95.0		5.32		TAS		9.5	0.96	m_e mb	4.7
GEC2	77.18		P	01:44:24.158	2.0	95.0		5.32		TAS		8.4	0.90	m_e mb	4.9
GRA1	78.87		P	01:44:33.873	-0.7	95.0		5.32		TAS		18.4	1.18	m_e mb	5.0
MOX	78.69		P	01:44:31.474	-1.6	95.0		5.32		TAS		8.9	1.21	m_e mb	4.7
TANN	78.14		P	01:44:30.865	0.8	95.0		5.32		TAS		8.9	1.21	m_e mb	4.8

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TNS	80.69	P	01:44:44.357	0.7	95.0	5.32	TAS	4.5	0.85	m_e	mb	4.5
UBR	79.48	P	01:44:35.917		95.0	5.32	TAS	8.8	1.02	m_e	mb	4.7
WLF	82.16	P	01:44:50.732		95.0	5.32	TAS	5.8	0.94	m_e	mb	4.7

Event 20410006 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/10	09:43:15.35		36.2020	143.1770					33.0					84.39	84.39	m i ke	BGR
OrigID																	
20410012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	20410012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	84.39		P	09:55:43.690		41.8		4.34		TAS		8.9	0.95	m_e	mb	5.0

Event 20410007 Nicobar Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/10	13:34:30.18		6.6900	93.7300					33.0				22	78.40	83.39	m i ke	BGR
OrigID																	
20410013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	20410013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	82.76		P	13:46:51.572	-0.9	91.9		5.33		TAS		13.8	0.92	m_e	mb	5.2
ASSE	80.50		P	13:46:39.260	-0.9	91.9		5.33		TAS		11.5	0.96	m_e	mb	4.8
BFO	82.00		P	13:46:47.287		91.9		5.33		TAS		11.6	0.82	m_e	mb	5.0
BRG	78.40		P	13:46:28.244	-0.3	91.9		5.33		TAS		10.1	0.81	m_e	mb	5.0
BSEG	80.75		P	13:46:40.800	0.3	91.9		5.33		TAS		35.3	0.78	m_e	mb	5.5
BUG	82.61		P	13:46:50.762	-0.9	91.9		5.33		TAS		19.3	0.84	m_e	mb	5.4
CLL	79.02		P	13:46:31.680	0.1	91.9		5.33		TAS		9.1	0.88	m_e	mb	4.8
CLZ	80.68		P	13:46:40.620	-0.9	91.9		5.33		TAS		17.5	0.76	m_e	mb	5.2
FLT1	80.16		P	13:46:37.221	-0.9	91.9		5.33		TAS		6.2	0.73	m_e	mb	4.6
FUR	80.03		P	13:46:36.694		91.9		5.33		TAS		17.4	0.83	m_e	mb	5.0
GEC2	78.45		P	13:46:28.652		91.9		5.33		TAS		20.6	0.79	m_e	mb	5.3
GRA1	80.10		P	13:46:37.329		91.9		5.33		TAS		22.4	0.88	m_e	mb	5.1
GTTG	80.93		P	13:46:41.764	-0.9	91.9		5.33		TAS		14.4	0.80	m_e	mb	5.0
IBBN	82.29		P	13:46:49.136	0.2	91.9		5.33		TAS		36.6	0.75	m_e	mb	5.6
KAST	81.90		P	13:46:47.076	-0.9	91.9		5.33		TAS		9.1	0.81	m_e	mb	5.0
MOX	79.87		P	13:46:35.875	-0.9	91.9		5.33		TAS		6.1	0.78	m_e	mb	4.6
NEUB	79.79		P	13:46:35.641		91.9		5.33		TAS		23.0	0.93	m_e	mb	5.1

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RUE	78.61	P	13:46:29.345	0.1	91.9	5.33	TAS	54.5	0.78	m_e mb	5.6
STU	81.42	P	13:46:44.288		91.9	5.33	TAS	7.9	0.75	m_e mb	4.8
TANN	79.32	P	13:46:33.369		91.9	5.33	TAS	5.8	0.95	m_e mb	4.6
TNS	81.89	P	13:46:46.937	-0.9	91.9	5.33	TAS	9.7	0.78	m_e mb	5.0
UBR	80.81	P	13:46:40.913		91.9	5.33	TAS	13.3	0.77	m_e mb	5.0
WLF	83.39	P	13:46:54.977	-0.9	91.9	5.33	TAS	13.9	0.88	m_e mb	5.2

Event 20410008 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/10	14:17:18.36			5.7800	96.8300				26.1	2.1		14		81.06	85.43	m i ke	BGR
OrigID 20410014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	20410014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	85.43	P		14:29:53.015		90.7		5.16		TAS		6.0	0.69	m_e mb	4.9
ASSE	83.12	P		14:29:41.173		90.7		5.16		TAS		7.5	1.02	m_e mb	4.9
BFO	84.74	P		14:29:49.374		90.7		5.16		TAS		4.9	0.76	m_e mb	4.8
BFO	84.74	pP		14:29:56.541	0.1					T__				m_e	
BRG	81.06	P		14:29:30.415		90.7		5.16		TAS		3.0	0.81	m_e mb	4.4
BRG	81.06	pP		14:29:37.754	0.1					T__				m_e	
BSEG	83.31	P		14:29:42.216	0.1	90.7		5.16		TAS		16.7	0.83	m_e mb	5.3
BSEG	83.31	pP		14:29:50.305	0.1					T__				m_e	
BUG	85.25	P		14:29:52.189		90.7		5.16		TAS		5.9	0.82	m_e mb	4.9
BUG	85.25	pP		14:29:59.694	0.1					T__				m_e	
CLZ	83.31	P		14:29:42.203	-0.1	90.7		5.16		TAS		6.0	0.68	m_e mb	5.0
GEC2	81.17	P		14:29:31.028		90.7		5.16		TAS		8.0	0.82	m_e mb	4.8
GEC2	81.17	pP		14:29:38.149	0.1					T__				m_e	
GRA1	82.80	P		14:29:39.784		90.7		5.16		TAS		4.8	0.80	m_e mb	4.8
IBBN	84.90	P		14:29:50.380		90.7		5.16		TAS		14.2	0.82	m_e mb	5.2
IBBN	84.90	pP		14:29:58.553	0.1					T__				m_e	
KAST	84.55	P		14:29:48.366		90.7		5.16		TAS		3.6	0.81	m_e mb	4.7
MOX	82.54	P		14:29:38.139		90.7		5.16		TAS		2.3	0.70	m_e mb	4.5
TNS	84.57	P		14:29:48.643		90.7		5.16		TAS		4.9	0.92	m_e mb	4.7
TNS	84.57	pP		14:29:56.232	0.1					T__				m_e	
UBR	83.57	P		14:29:43.454		90.7		5.16		TAS		5.3	0.78	m_e mb	4.8

Event 20410009 Azores Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/10	23:42:33.23			35.9930	-33.7790				10.0					35.16	35.16	m i ke	BGR
OrigID																	

20410015

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	20410015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	35.16		P	23:49:23.668		262.9		8.30		TAS		3.7	0.74	m_e	mb	4.4

Event 20411001 Taiwan region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/11	13:47:38.72			21.9250	119.7070				33.0			19		82.64	87.59	m i ke	BGR

OrigID
20411007

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	20411007
Ms	5.7		BGR	20411007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	83.89		P	14:00:04.576	-0.0	62.1		5.04		TAS		13.0	0.76	m_e	mb	5.2
BFO	87.05		P	14:00:20.123	-0.5	62.1		5.04		TAS		7.5	1.09	m_e	mb	4.7
BRG	82.64		P	13:59:58.250	-0.1	62.1		5.04		TAS		16.1	0.87	m_e	mb	5.3
BSEG	83.22		P	14:00:01.364	0.1	62.1		5.04		TAS		27.3	0.82	m_e	mb	5.5
BUG	86.06		P	14:00:15.633	0.0	62.1		5.04		TAS		9.9	0.78	m_e	mb	5.0
CLL	82.98		P	13:59:59.816	-0.2	62.1		5.04		TAS		43.5	0.75	m_e	mb	5.8
CLZ	84.18		P	14:00:05.938	-0.2	62.1		5.04		TAS		41.8	0.83	m_e	mb	5.7
FLT1	83.49		P	14:00:02.835	0.2	62.1		5.04		TAS		42.3	0.77	m_e	mb	5.7
GEC2	83.67		P	14:00:03.864	0.3	62.1		5.04		TAS		41.4	0.85	m_e	mb	5.7
GRA1	84.73		P	14:00:09.080	0.2	62.1		5.04		TAS		15.6	0.78	m_e	mb	5.3
GRA1	84.73		L	14:45:05.632						T__		2535.8	19.40	a_e	Ms	5.6
GTTG	84.55		P	14:00:07.967	-0.0	62.1		5.04		TAS		33.5	0.82	m_e	mb	5.6
IBBN	85.36		P	14:00:12.121	0.1	62.1		5.04		TAS		55.2	0.75	m_e	mb	5.9
KAST	85.56		P	14:00:13.056	-0.0	62.1		5.04		TAS		8.1	0.96	m_e	mb	4.8
MOX	84.06		P	14:00:05.447	-0.1	62.1		5.04		TAS		16.4	0.86	m_e	mb	5.3
MOX	84.06		L	14:43:32.787						T__		3541.9	18.20	a_e	Ms	5.8
NEUB	83.72		P	14:00:03.543	-0.2	62.1		5.04		TAS		51.8	0.82	m_e	mb	5.8
TANN	83.69		P	14:00:03.636	0.0	62.1		5.04		TAS		12.9	0.86	m_e	mb	5.2
TNS	86.03		P	14:00:15.281	-0.2	62.1		5.04		TAS		5.4	0.67	m_e	mb	4.8
UBR	86.34		P	14:00:17.130	0.1	62.1		5.04		TAS		12.3	0.79	m_e	mb	5.1
WLF	87.59		P	14:00:23.717	0.4	62.1		5.04		TAS		45.1	0.86	m_e	mb	5.8

Event 20411002 Taiwan region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID
 2022/04/11 19:15:33.73 21.7400 121.2700 33.0 15 83.67 88.60 m i ke BGR
 20411008

Magnitude Err Nsta Author OrigID
 mb 5.1 BGR 20411008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	84.88		P	19:28:07.270		61.4		4.85		TAS		5.5	0.85	m_e mb	4.8
BRG	83.67		P	19:28:00.922		61.4		4.85		TAS		10.2	0.97	m_e mb	5.0
BSEG	84.18		P	19:28:03.318	0.2	61.4		4.85		TAS		9.6	0.85	m_e mb	5.0
CLL	84.00		P	19:28:02.602	-0.1	61.4		4.85		TAS		16.4	0.83	m_e mb	5.3
CLZ	85.18		P	19:28:08.441		61.4		4.85		TAS		15.9	0.86	m_e mb	5.3
FLT1	84.48		P	19:28:04.924	-0.1	61.4		4.85		TAS		14.7	0.78	m_e mb	5.3
GEC2	84.73		P	19:28:06.214		61.4		4.85		TAS		17.2	0.93	m_e mb	5.3
GRA1	85.77		P	19:28:11.099		61.4		4.85		TAS		4.4	0.93	m_e mb	4.6
GTTG	85.55		P	19:28:10.173		61.4		4.85		TAS		14.0	0.77	m_e mb	5.2
IBBN	86.34		P	19:28:14.098	0.2	61.4		4.85		TAS		17.4	0.77	m_e mb	5.2
MOX	85.08		P	19:28:07.378		61.4		4.85		TAS		8.1	0.95	m_e mb	4.9
NEUB	84.73		P	19:28:05.896		61.4		4.85		TAS		23.4	0.93	m_e mb	5.4
TANN	84.72		P	19:28:05.958		61.4		4.85		TAS		6.7	0.94	m_e mb	4.8
UBR	87.40		P	19:28:19.052		61.4		4.85		TAS		5.4	0.89	m_e mb	4.7
WLF	88.60		P	19:28:25.133		61.4		4.85		TAS		19.7	0.90	m_e mb	5.3

Event 20411003 North Atlantic Ocean
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2022/04/11 22:12:11.03 50.2060 -41.3020 10.0 33.19 33.19 m i ke BGR
 20411009

Magnitude Err Nsta Author OrigID
 mb 4.7 BGR 20411009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	33.19		P	22:18:44.149		291.5		8.41		TAS		9.9	1.10	m_e mb	4.7

Event 20411004 South of Fiji Islands
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2022/04/11 22:28:57.08 -23.2200 -176.7100 24.6 2.3 17 148.79 154.91 m i ke BGR
 20411010

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	150.50		PKPbc	22:47:35.038	0.4	13.4		2.18		TAS				m_e	
ASSE	150.50		pPKPbc	22:47:42.787	0.4					T__				m_e	
BRG	151.10		PKPbc	22:47:36.782	-0.0	13.4		2.18		TAS				m_e	
BRG	151.10		pPKPbc	22:47:44.111	0.4					T__				m_e	
BSEG	148.79		PKPbc	22:47:31.804	0.1	13.4		2.18		TAS				m_e	
BSEG	148.79		pPKPbc	22:47:38.754	0.4					T__				m_e	
BUG	151.57		PKPbc	22:47:37.571	0.4	13.4		2.18		TAS				m_e	
BUG	151.57		pPKPbc	22:47:45.200	0.4					T__				m_e	
CLL	150.89		PKPbc	22:47:36.045		13.4		2.18		TAS				m_e	
CLZ	150.82		PKPbc	22:47:35.981	-0.0	13.4		2.18		TAS				m_e	
CLZ	150.82		pPKPbc	22:47:43.731	0.4					T__				m_e	
FLT1	150.22		PKPbc	22:47:34.508	0.2	13.4		2.18		TAS				m_e	
FLT1	150.22		pPKPbc	22:47:42.063	0.4					T__				m_e	
GEC2	153.06		PKPbc	22:47:41.006	-0.0	13.4		2.18		TAS				m_e	
GEC2	153.06		pPKPbc	22:47:47.734	0.4					T__				m_e	
GTTG	151.17		PKPbc	22:47:36.677	-0.6	13.4		2.18		TAS				m_e	
IBBN	150.67		PKPbc	22:47:35.499	-0.0	13.4		2.18		TAS				m_e	
IBBN	150.67		pPKPbc	22:47:43.248	0.4					T__				m_e	
KAST	151.70		PKPbc	22:47:37.779		13.4		2.18		TAS				m_e	
KAST	151.70		pPKPbc	22:47:45.708	0.4					T__				m_e	
MOX	151.78		PKPbc	22:47:38.188	-0.0	13.4		2.18		TAS				m_e	
MOX	151.78		pPKPbc	22:47:45.637	0.4					T__				m_e	
NEUB	151.23		PKPbc	22:47:36.734	-0.0	13.4		2.18		TAS				m_e	
RUE	149.63		PKPbc	22:47:33.426	-0.2	13.4		2.18		TAS				m_e	
RUE	149.63		pPKPbc	22:47:40.312	0.4					T__				m_e	
TANN	151.85		PKPbc	22:47:38.042	-0.0	13.4		2.18		TAS				m_e	
TANN	151.85		pPKPbc	22:47:45.731	0.4					T__				m_e	
TNS	152.66		PKPbc	22:47:39.866	-0.0	13.4		2.18		TAS				m_e	
UBR	154.91		PKPbc	22:47:44.740	-0.0	13.4		2.18		TAS				m_e	
UBR	154.91		pPKPbc	22:47:51.949	0.4					T__				m_e	

Event 20413001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/13	02:35:16.20			-23.0100	170.2400				33.0			21		145.46	150.87	m i ke	BGR
OrigID 20413007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.91		PKPbc	02:54:54.831	0.2	37.6		2.75		TAS				m_e	
BFO	150.87		PKPbc	02:55:05.718		37.6		2.75		TAS				m_e	
BRG	146.60		PKPbc	02:54:54.019		37.6		2.75		TAS				m_e	
BSEG	145.55		PKPbc	02:54:51.172	0.1	37.6		2.75		TAS				m_e	

./bul2204.txt

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BUG	148.65	PKPbc	02:54:59.696	-0.1	37.6	2.75	TAS	m_e
CLL	146.67	PKPbc	02:54:54.085	-0.1	37.6	2.75	TAS	m_e
CLZ	147.25	PKPbc	02:54:55.721	-0.1	37.6	2.75	TAS	m_e
FLT1	146.54	PKPbc	02:54:53.602	0.1	37.6	2.75	TAS	m_e
GEC2	148.20	PKPbc	02:54:58.765		37.6	2.75	TAS	m_e
GRA1	148.64	PKPbc	02:54:59.575		37.6	2.75	TAS	m_e
GTTG	147.64	PKPbc	02:54:56.998	0.2	37.6	2.75	TAS	m_e
IBBN	147.75	PKPbc	02:54:57.280	0.2	37.6	2.75	TAS	m_e
KAST	148.47	PKPbc	02:54:59.131		37.6	2.75	TAS	m_e
MOX	147.73	PKPbc	02:54:56.776		37.6	2.75	TAS	m_e
NEUB	147.24	PKPbc	02:54:55.521		37.6	2.75	TAS	m_e
RUE	145.46	PKPbc	02:54:50.945	-0.3	37.6	2.75	TAS	m_e
STU	150.18	PKPbc	02:55:03.724		37.6	2.75	TAS	m_e
TANN	147.57	PKPbc	02:54:56.573		37.6	2.75	TAS	m_e
TNS	149.27	PKPbc	02:55:01.397		37.6	2.75	TAS	m_e
UBR	150.66	PKPbc	02:55:05.244		37.6	2.75	TAS	m_e
WLF	150.54	PKPbc	02:55:05.089		37.6	2.75	TAS	m_e

Event 20413003 Sea of Okhotsk

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/13	20:49:47.67			50.5700	149.1100				33.0			15		71.35	75.12	m i ke	BGR
20413009																	

Magnitude Err Nsta Author OrigID
 mb 4.7 BGR 20413009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	74.08		P	21:01:21.823	-0.3	26.9		5.83		TAS		27.5	1.39	m_e mb	5.1
ASSE	71.68		P	21:01:07.049	-0.3	26.9		5.83		TAS		3.1	0.87	m_e mb	4.5
BRG	71.86		P	21:01:08.733	-0.1	26.9		5.83		TAS		2.9	0.80	m_e mb	4.5
CLL	71.76		P	21:01:07.618	0.3	26.9		5.83		TAS		12.1	0.66	m_e mb	5.2
CLZ	72.02		P	21:01:09.102	-0.3	26.9		5.83		TAS		6.1	0.84	m_e mb	4.8
FLT1	71.35		P	21:01:05.061	-0.5	26.9		5.83		TAS		7.0	0.84	m_e mb	4.8
GEC2	73.73		P	21:01:19.157		26.9		5.83		TAS		2.2	0.87	m_e mb	4.2
GRA1	73.72		P	21:01:19.157		26.9		5.83		TAS		7.6	0.76	m_e mb	4.8
IBBN	72.29		P	21:01:10.886	0.1	26.9		5.83		TAS		6.3	0.82	m_e mb	4.8
KAST	73.13		P	21:01:15.742	0.1	26.9		5.83		TAS		4.0	0.82	m_e mb	4.6
MOX	72.75		P	21:01:13.741	-0.3	26.9		5.83		TAS		8.6	1.13	m_e mb	4.8
NEUB	72.21		P	21:01:10.371	0.1	26.9		5.83		TAS		7.7	0.73	m_e mb	4.9
STU	75.12		P	21:01:27.287		26.9		5.83		TAS		12.5	0.94	m_e mb	4.9
TANN	72.71		P	21:01:13.446	-0.3	26.9		5.83		TAS		1.3	0.83	m_e mb	4.1
TNS	74.01		P	21:01:20.949	-0.3	26.9		5.83		TAS		4.0	0.72	m_e mb	4.5

Event 20415001 Qinghai, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/15	01:26:22.11			38.0790	96.6370				33.0			26		56.40	62.40	m i ke	BGR
OrigID 20415007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	20415007
Ms	5.1		BGR	20415007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	61.47		P	01:36:34.338	-0.0	65.9		6.92		TAS		90.0	1.00	m_e	mb	6.0
ASSE	58.76		P	01:36:15.113	-0.4	65.9		6.92		TAS		42.7	1.16	m_e	mb	5.4
BFO	61.73		P	01:36:35.751	-0.5	65.9		6.92		TAS		78.4	1.00	m_e	mb	5.9
BRG	57.36		P	01:36:05.760	-0.2	65.9		6.92		TAS		89.5	0.88	m_e	mb	5.8
BSEG	58.26		P	01:36:12.287	0.6	65.9		6.92		TAS		123.5	0.90	m_e	mb	5.9
BUG	60.97		P	01:36:30.699	-0.1	65.9		6.92		TAS		77.4	0.80	m_e	mb	5.6
CLL	57.74		P	01:36:08.091	-0.5	65.9		6.92		TAS		100.3	0.86	m_e	mb	5.9
CLZ	59.05		P	01:36:17.725	0.2	65.9		6.92		TAS		172.2	0.79	m_e	mb	6.1
FLT1	58.37		P	01:36:12.115	-0.7	65.9		6.92		TAS		100.2	0.76	m_e	mb	5.9
FUR	60.02		P	01:36:25.074	0.7	65.9		6.92		TAS		229.3	0.92	m_e	mb	6.2
GEC2	58.28		P	01:36:12.629	0.3	65.9		6.92		TAS		72.2	1.08	m_e	mb	5.6
GOR1	58.07		P	01:36:11.045	0.4	65.9		6.92		TAS		167.0	1.13	m_e	mb	6.0
GRA1	59.42		P	01:36:20.765	0.5	65.9		6.92		TAS		169.9	0.90	m_e	mb	6.1
GRA1	59.42		L	02:03:13.090						T__		1653.6	20.90	a_e	Ms	5.1
GTTG	59.40		P	01:36:20.294	0.3	65.9		6.92		TAS		184.9	0.86	m_e	mb	6.1
IBBN	60.33		P	01:36:26.160	-0.0	65.9		6.92		TAS		92.9	0.77	m_e	mb	5.9
KAST	60.42		P	01:36:26.973	-0.1	65.9		6.92		TAS		37.5	0.91	m_e	mb	5.4
MOX	58.81		P	01:36:15.969	-0.1	65.9		6.92		TAS		82.3	1.20	m_e	mb	5.6
MOX	58.81		L	02:02:31.114						T__		1075.0	19.30	a_e	Ms	5.0
NEUB	58.50		P	01:36:13.528	-0.3	65.9		6.92		TAS		130.8	0.95	m_e	mb	5.9
PLN	58.55		P	01:36:14.256	0.0	65.9		6.92		TAS		22.9	0.98	m_e	mb	5.2
RGN	56.40		P	01:35:59.013	0.2	65.9		6.92		TAS		296.4	1.27	m_e	mb	6.2
RUE	56.87		P	01:36:02.096	-0.4	65.9		6.92		TAS		152.5	0.77	m_e	mb	6.1
STU	61.02		P	01:36:31.041	-0.3	65.9		6.92		TAS		225.4	0.97	m_e	mb	6.0
TANN	58.40		P	01:36:13.272	0.0	65.9		6.92		TAS		69.6	0.93	m_e	mb	5.7
TNS	60.82		P	01:36:29.842	-0.1	65.9		6.92		TAS		62.0	1.15	m_e	mb	5.3
UBR	60.94		P	01:36:30.827	0.1	65.9		6.92		TAS		147.0	0.99	m_e	mb	5.8
WLF	62.40		P	01:36:41.018	0.2	65.9		6.92		TAS		150.9	0.96	m_e	mb	6.2

Event 20416001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/16	21:57:39.63			-21.9710	171.7180				33.0			17		145.04	150.35	m i ke	BGR
OrigID 20416007																	

Magnitude Err Nsta Author OrigID
 Ms 5.0 BGR 20416007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	146.28		PKPbc	22:17:17.216	0.3	36.1		2.75		TAS				m_e	
BSEG	145.04		PKPbc	22:17:13.527	-0.5	36.1		2.75		TAS				m_e	
CLL	146.31		PKPbc	22:17:17.121	0.2	36.1		2.75		TAS				m_e	
CLZ	146.81		PKPbc	22:17:19.042	0.3	36.1		2.75		TAS				m_e	
FLT1	146.11		PKPbc	22:17:16.449	-0.2	36.1		2.75		TAS				m_e	
GEC2	147.94		PKPbc	22:17:21.745		36.1		2.75		TAS				m_e	
GOR1	145.53		PKPbc	22:17:15.134	-0.0	36.1		2.75		TAS				m_e	
GRA1	148.28		L	23:23:11.517						T___		283.3	21.70	a_e Ms	5.0
GTTG	147.19		PKPbc	22:17:20.065	-0.0	36.1		2.75		TAS				m_e	
IBBN	147.22		PKPbc	22:17:19.992	-0.1	36.1		2.75		TAS				m_e	
KAST	147.99		PKPbc	22:17:22.147	0.1	36.1		2.75		TAS				m_e	
MOX	147.36		PKPbc	22:17:20.175	0.3	36.1		2.75		TAS				m_e	
MOX	147.36		L	23:23:05.753						T___		271.3	21.20	a_e Ms	5.0
NEUB	146.86		PKPbc	22:17:18.896	0.1	36.1		2.75		TAS				m_e	
PLN	147.29		PKPbc	22:17:20.101	-0.0	36.1		2.75		TAS				m_e	
RUE	145.09		PKPbc	22:17:13.418	-0.4	36.1		2.75		TAS				m_e	
TANN	147.23		PKPbc	22:17:19.992	-0.7	36.1		2.75		TAS				m_e	
UBR	150.35		PKPbc	22:17:27.552		36.1		2.75		TAS				m_e	
WLF	150.03		PKPbc	22:17:27.881		36.1		2.75		TAS				m_e	

Event 20417001 Fiji Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 2022/04/17 07:46:01.23 -15.6700 167.8500 206.0 3 142.25 143.28 m i ke EMSC
 20417037

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	143.28		PKPbc	08:05:44.922		28.1		2.98		TAS				m_e	
FUR	142.25		PKPbc	08:05:42.699		28.1		2.98		TAS				m_e	
UBR	143.11		PKPbc	08:05:45.062		28.1		2.98		TAS				m_e	

Event 20418001 Taiwan region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 2022/04/18 11:38:41.74 21.4930 121.2890 31.3 12 83.24 88.81 m i ke BGR
 20418007

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	20418007
Ms	5.4		BGR	20418007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	83.88		P	11:51:07.948	0.1	61.8		4.95		TAS		12.3	1.07	m_e	mb	5.1
BSEG	84.40		P	11:51:10.701	0.0	61.8		4.95		TAS		14.8	0.91	m_e	mb	5.2
BSEG	84.40		pP	11:51:19.859	0.1	61.2		4.96		TAS				m_e		
CLL	84.21		P	11:51:09.288	0.0	61.8		4.95		TAS		22.5	0.95	m_e	mb	5.4
CLZ	85.39		P	11:51:15.984	-0.3	61.8		4.95		TAS		20.8	0.93	m_e	mb	5.3
CLZ	85.39		pP	11:51:25.125	-0.1	61.2		4.96		TAS				m_e		
FLT1	84.69		P	11:51:11.594	0.4	61.8		4.95		TAS		18.6	0.87	m_e	mb	5.3
FLT1	84.69		pP	11:51:20.641	-0.2	61.2		4.96		TAS				m_e		
GEC2	84.94		P	11:51:13.375		61.8		4.95		TAS		18.0	0.92	m_e	mb	5.3
GEC2	84.94		pP	11:51:22.466		61.2		4.96		TAS				m_e		
GOR1	84.34		P	11:51:10.627	0.3	61.8		4.95		TAS		28.5	0.99	m_e	mb	5.5
GOR1	84.34		pP	11:51:19.650	0.2	61.2		4.96		TAS				m_e		
GRA1	85.97		pP	11:51:27.911		61.2		4.96		TAS				m_e		
GRA1	85.97		L	12:35:23.542						T__		1810.5	18.70	a_e	Ms	5.5
GTTG	85.76		P	11:51:17.547	-0.0	61.8		4.95		TAS		17.5	0.97	m_e	mb	5.2
IBBN	86.55		P	11:51:21.341	-0.5	61.8		4.95		TAS		24.9	0.87	m_e	mb	5.4
IBBN	86.55		pP	11:51:30.444	0.4	61.2		4.96		TAS				m_e		
MOX	85.29		P	11:51:14.124	-0.0	61.8		4.95		TAS		9.0	0.99	m_e	mb	5.0
MOX	85.29		pP	11:51:24.082		61.2		4.96		TAS				m_e		
MOX	85.29		L	12:35:06.062						T__		1368.2	18.60	a_e	Ms	5.4
NEUB	84.94		P	11:51:13.231	0.1	61.8		4.95		TAS		29.1	0.91	m_e	mb	5.5
NEUB	84.94		pP	11:51:22.309	0.1	61.2		4.96		TAS				m_e		
PLN	85.06		P	11:51:13.901	0.3	61.8		4.95		TAS		4.1	0.94	m_e	mb	4.6
PLN	85.06		pP	11:51:22.935		61.2		4.96		TAS				m_e		
RUE	83.24		P	11:51:04.898	0.0	61.8		4.95		TAS		27.7	1.06	m_e	mb	5.4
TANN	84.92		P	11:51:13.231		61.8		4.95		TAS		9.1	0.97	m_e	mb	5.0
TANN	84.92		pP	11:51:22.309		61.2		4.96		TAS				m_e		
WLF	88.81		P	11:51:32.428		61.8		4.95		TAS		21.4	0.95	m_e	mb	5.3
WLF	88.81		pP	11:51:41.551		61.2		4.96		TAS				m_e		

Event 20419001 Luzon, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/19	01:23:42.61			7.2400	126.8800				31.0			18		98.50	103.52	m i ke	EMSC
				20419037													

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	20419007
Ms	6.3		BGR	20419007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	99.85		P	01:36:49.772	-0.1	64.7		4.59		TAS		31.3	1.52	m_e	mb 5.7
BRG	98.50		P	01:36:43.781	0.3	64.7		4.59		TAS		13.2	0.78	m_e	mb 5.7
BSEG	99.25		P	01:36:47.019	-0.5	64.7		4.59		TAS		11.7	0.99	m_e	mb 5.6
BUG	102.04		P	01:36:59.595	0.1	64.7		4.59		TAS		23.6	1.16	m_e	mb 5.7
CLL	98.87		P	01:36:45.022	0.1	64.7		4.59		TAS		12.4	1.05	m_e	mb 5.6
CLZ	100.14		P	01:36:51.499	0.2	64.7		4.59		TAS		23.0	1.01	m_e	mb 5.8
FLT1	99.45		P	01:36:47.397	0.1	64.7		4.59		TAS		12.3	0.89	m_e	mb 5.6
GEC2	99.42		P	01:36:48.045		64.7		4.59		TAS		17.6	1.02	m_e	mb 5.7
GRA1	100.57		P	01:36:53.388		64.7		4.59		TAS		19.8	1.46	m_e	mb 5.4
GRA1	100.57		L	02:25:36.240						T__		10904.1	21.00	a_e	Ms 6.3
IBBN	101.36		P	01:36:56.681	-0.3	64.7		4.59		TAS		38.5	1.37	m_e	mb 5.8
KAST	101.52		P	01:36:57.490	0.1	64.7		4.59		TAS		9.7	1.06	m_e	mb 5.4
MOX	99.94		P	01:36:50.204	0.1	64.7		4.59		TAS		8.9	1.07	m_e	mb 5.3
MOX	99.94		L	02:29:59.042						T__		8728.0	19.90	a_e	Ms 6.3
NEUB	99.62		P	01:36:48.693	0.3	64.7		4.59		TAS		20.4	1.21	m_e	mb 5.6
PLN	99.69		P	01:36:49.232		64.7		4.59		TAS		6.2	1.28	m_e	mb 5.1
TANN	99.54		P	01:36:48.531		64.7		4.59		TAS		9.0	1.02	m_e	mb 5.3
TNS	101.95		P	01:36:59.542		64.7		4.59		TAS		15.3	1.16	m_e	mb 5.5
UBR	102.09		P	01:36:59.649		64.7		4.59		TAS		13.3	1.12	m_e	mb 5.5
WLF	103.52		P	01:37:06.936		64.7		4.59		TAS		21.4	1.10	m_e	mb 5.9

Event 20419002 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/19	04:33:43.08			-22.3680	-173.0150				33.0			21		149.82	154.53	m i ke	BGR
OrigID 20419008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.2		BGR	20419008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	151.79		PKPbc	04:53:34.567	0.4	8.5		2.33		TAS				m_e	
ASSE	150.07		PKPbc	04:53:30.191	-0.1	8.5		2.33		TAS				m_e	
BFO	153.98		PKPbc	04:53:39.297		8.5		2.33		TAS				m_e	
BRG	150.95		PKPbc	04:53:32.450	0.2	8.5		2.33		TAS				m_e	
BUG	150.89		PKPbc	04:53:32.167	0.1	8.5		2.33		TAS				m_e	
CLL	150.65		PKPbc	04:53:31.532	0.1	8.5		2.33		TAS				m_e	
CLZ	150.37		PKPbc	04:53:31.249	0.0	8.5		2.33		TAS				m_e	
FLT1	149.82		PKPbc	04:53:29.273	-0.3	8.5		2.33		TAS				m_e	
FUR	153.94		PKPbc	04:53:39.227		8.5		2.33		TAS				m_e	
GEC2	152.96		PKPbc	04:53:37.025		8.5		2.33		TAS				m_e	
GRA1	152.44		PKPbc	04:53:36.120	-0.3	8.5		2.33		TAS				m_e	
GRA1	152.44		L	06:00:25.980						T__		3345.4	21.90	a_e	Ms 6.1
GTTG	150.69		PKPbc	04:53:31.885	0.0	8.5		2.33		TAS				m_e	
IBBN	150.02		PKPbc	04:53:30.191	0.1	8.5		2.33		TAS				m_e	

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KAST	151.11	PKPbc	04:53:32.873	-0.0	8.5	2.33	TAS	m_e									
MOX	151.46	PKPbc	04:53:33.579	0.2	8.5	2.33	TAS	m_e									
MOX	151.46	L	06:00:43.506				T__				4104.6	22.00	a_e Ms		6.2		
NEUB	150.90	PKPbc	04:53:32.238	0.1	8.5	2.33	TAS	m_e									
PLN	151.56	PKPbc	04:53:33.861	0.3	8.5	2.33	TAS	m_e									
TANN	151.59	PKPbc	04:53:34.073	-0.1	8.5	2.33	TAS	m_e									
TNS	152.08	PKPbc	04:53:35.344	-0.2	8.5	2.33	TAS	m_e									
UBR	154.53	PKPbc	04:53:40.356		8.5	2.33	TAS	m_e									
WLF	152.66	PKPbc	04:53:37.109	-0.1	8.5	2.33	TAS	m_e									

Event 20420001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/20	05:13:07.80			-22.6070	172.5770				33.0			24		145.90	151.37	m i ke	BGR
20420007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.7		BGR	20420007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.83		PKPbc	05:32:55.252	0.3	35.2		2.65		TAS					m_e
ASSE	147.34		PKPbc	05:32:48.525	0.5	35.2		2.65		TAS					m_e
BFO	151.37		PKPbc	05:32:58.572		35.2		2.65		TAS					m_e
BRG	147.20		PKPbc	05:32:47.913	0.1	35.2		2.65		TAS					m_e
BSEG	145.90		PKPbc	05:32:44.331	0.1	35.2		2.65		TAS					m_e
BUG	148.97		PKPbc	05:32:52.893	-0.2	35.2		2.65		TAS					m_e
CLL	147.21		PKPbc	05:32:47.738	0.1	35.2		2.65		TAS					m_e
CLZ	147.68		PKPbc	05:32:49.835	0.4	35.2		2.65		TAS					m_e
FLT1	146.98		PKPbc	05:32:47.127	0.1	35.2		2.65		TAS					m_e
GEC2	148.87		PKPbc	05:32:52.543	-0.6	35.2		2.65		TAS					m_e
GOR1	146.40		PKPbc	05:32:46.058	-0.0	35.2		2.65		TAS					m_e
GRA1	149.19		L	06:43:47.840						T__		1247.5	19.50	a_e Ms	5.7
GTTG	148.07		PKPbc	05:32:50.709	-0.1	35.2		2.65		TAS					m_e
IBBN	148.07		PKPbc	05:32:50.534	-0.3	35.2		2.65		TAS					m_e
KAST	148.85		PKPbc	05:32:52.631	0.1	35.2		2.65		TAS					m_e
MOX	148.26		PKPbc	05:32:50.796	0.0	35.2		2.65		TAS					m_e
MOX	148.26		L	06:38:58.774						T__		1239.7	20.40	a_e Ms	5.7
NEUB	147.75		PKPbc	05:32:49.486	0.0	35.2		2.65		TAS					m_e
PLN	148.19		PKPbc	05:32:50.796	0.2	35.2		2.65		TAS					m_e
RETH	147.22		PKPbc	05:32:48.262	-0.4	35.2		2.65		TAS					m_e
RUE	145.98		PKPbc	05:32:44.331	-0.1	35.2		2.65		TAS					m_e
TANN	148.13		PKPbc	05:32:50.621	0.3	35.2		2.65		TAS					m_e
TNS	149.69		PKPbc	05:32:54.990	0.3	35.2		2.65		TAS					m_e
UBR	151.26		PKPbc	05:32:58.135		35.2		2.65		TAS					m_e
WET	148.98		PKPbc	05:32:52.893	-0.5	35.2		2.65		TAS					m_e
WLF	150.88		PKPbc	05:32:58.310	0.2	35.2		2.65		TAS					m_e

Event 20420004 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/20	15:16:36.77			-19.7070	-172.6110				33.0			11		146.91	151.91	m i ke	BGR
OrigID 20420010																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.0		BGR	20420010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	147.45		PKPbc	15:36:17.469	0.3	7.2		2.58		TAS					m_e
BFO	151.34		PKPbc	15:36:27.405		7.2		2.58		TAS					m_e
CLL	148.07		PKPbc	15:36:19.040	-0.2	7.2		2.58		TAS					m_e
FLT1	147.21		PKPbc	15:36:16.567	0.2	7.2		2.58		TAS					m_e
GEC2	150.40		PKPbc	15:36:25.138		7.2		2.58		TAS					m_e
GRA1	149.84		L	16:44:09.157						T__		248.7	20.00	a_e Ms	5.0
MOX	148.85		L	16:46:39.763						T__		196.1	20.00	a_e Ms	4.9
PLN	148.97		PKPbc	15:36:21.547		7.2		2.58		TAS					m_e
RETH	146.91		PKPbc	15:36:15.932	0.0	7.2		2.58		TAS					m_e
TANN	149.00		PKPbc	15:36:21.747		7.2		2.58		TAS					m_e
UBR	151.91		PKPbc	15:36:28.601		7.2		2.58		TAS					m_e
WET	150.21		PKPbc	15:36:24.823		7.2		2.58		TAS					m_e
WLF	150.00		PKPbc	15:36:24.856		7.2		2.58		TAS					m_e

Event 20421001 South Of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/21	01:53:26.40			-24.8900	179.8500				513.0			10		151.69	153.76	m i ke	EMSC
OrigID 20421037																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	151.81		PKPab	02:12:35.769		21.5		4.41		TAS					m_e
CLL	151.69		PKPab	02:12:34.978	-0.5	21.5		4.41		TAS					m_e
GEC2	153.67		PKPab	02:12:43.860		21.5		4.41		TAS					m_e
GRA1	153.63		PKPab	02:12:44.043		21.5		4.41		TAS					m_e
IBBN	151.89		PKPab	02:12:36.013	0.1	21.5		4.41		TAS					m_e
MOX	152.66		PKPab	02:12:39.359		21.5		4.41		TAS					m_e
NEUB	152.11		PKPab	02:12:36.925		21.5		4.41		TAS					m_e
TANN	152.64		PKPab	02:12:39.541		21.5		4.41		TAS					m_e
TNS	153.76		PKPab	02:12:43.921		21.5		4.41		TAS					m_e

WET 153.66 PKPab 02:12:44.225 21.5 4.41 TAS m_e

Event 20421003 Kuril Islands, Russia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2022/04/21 12:38:54.00 46.0800 152.8700 33.0 18 76.47 80.88 m i ke EMSC
20421039

Magnitude Err Nsta Author OrigID
mb 5.4 BGR 20421009
Ms 4.8 BGR 20421009

Table with 16 columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Rows include station data for AHRW, ASSE, BFO, BRG, BUG, CLL, CLZ, FLT1, FUR, GEC2, GRA1, IBBN, KAST, MOX, PLN, TANN, TNS, WET.

Event 20421004 Near north coast of Kalaallit Nunaat

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2022/04/21 20:32:38.80 83.0400 -27.8900 10.0 17 32.35 37.14 m i ke EMSC
20421040

Magnitude Err Nsta Author OrigID
mb 5.3 BGR 20421010
Ms 4.1 BGR 20421010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	32.77		P	20:39:12.899	0.1	352.3		8.89		TAS		21.0	1.10	m_e mb	5.0
BRG	34.31		P	20:39:26.198	-0.1	352.3		8.89		TAS		36.6	1.89	m_e mb	5.0
BUG	33.17		P	20:39:16.635	-0.1	352.3		8.89		TAS		64.5	1.77	m_e mb	5.3
CLL	33.79		P	20:39:21.640	0.2	352.3		8.89		TAS		60.7	1.75	m_e mb	5.2
CLZ	33.03		P	20:39:15.589	0.1	352.3		8.89		TAS		48.3	1.72	m_e mb	5.2
FLT1	32.62		P	20:39:11.330	-0.3	352.3		8.89		TAS		10.0	1.22	m_e mb	4.6
GEC2	36.29		P	20:39:44.352		352.3		8.89		TAS		86.8	2.03	m_e mb	5.2
GRA1	35.24		P	20:39:34.939		352.3		8.89		TAS		32.3	0.80	m_e mb	5.3
GRA1	35.24		L	20:54:35.713						T__		417.0	18.70	a_e Ms	4.2
GTTG	33.29		P	20:39:17.980	0.0	352.3		8.89		TAS		46.6	1.28	m_e mb	5.3
IBBN	32.35		P	20:39:09.388	-0.4	352.3		8.89		TAS		145.1	2.26	m_e mb	5.5
KAST	33.50		P	20:39:19.922	0.2	352.3		8.89		TAS		125.0	2.03	m_e mb	5.5
MOX	34.32		P	20:39:26.646	0.1	352.3		8.89		TAS		35.4	1.53	m_e mb	5.1
MOX	34.32		L	20:52:00.563						T__		293.6	21.70	a_e Ms	4.0
PLN	34.53		P	20:39:28.439	-0.1	352.3		8.89		TAS		13.4	1.42	m_e mb	4.7
TANN	34.63		P	20:39:29.410	0.3	352.3		8.89		TAS		48.0	1.56	m_e mb	5.2
UBR	37.14		P	20:39:51.300		352.3		8.89		TAS		141.0	2.08	m_e mb	5.3
WET	35.92		P	20:39:41.141		352.3		8.89		TAS		51.2	1.86	m_e mb	5.0
WLF	34.85		P	20:39:31.577	-0.8	352.3		8.89		TAS		44.7	1.46	m_e mb	5.2

Event 20422003 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/22	05:27:36.98			56.2390	-161.8420				212.3					74.15	74.15	m i ke	BGR
OrigID 20422009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	20422009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	74.15		P	05:38:48.773		352.1		5.21		TAS		36.1	1.03	m_e mb	5.3
GRA1	74.15		pP	05:39:38.968		353.5		5.23		TAS				m_e	

Event 20422001 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/22	06:15:23.00			-30.0420	-177.8420				37.0					158.16	159.14	m i ke	USGS
OrigID 20422019																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.9		BGR	20422007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	159.14		PKPab	06:35:54.260		22.6		3.92		TAS		29.1	0.95	m_e	
GRA1	159.14		L	07:57:39.864						T__		159.5	20.10	a_e Ms	4.8
MOX	158.16		L	07:39:15.490						T__		167.0	20.80	a_e Ms	4.9

Event 20422006 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/22	21:07:51.25	0.52	0.91	43.0670	18.2490	11.1	5.6	14	10.0			48	227	4.33	12.06	m i ke	BGR
OrigID 20422012																	

Magnitude	Err	Nsta	Author	OrigID
ML	6.1		BGR	20422012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	10.69		Pn	21:10:23.744	1.0					T__				m_e	
ARSA	4.60		Pn	21:08:59.870	-0.7					T__				m_e ML	5.9
ASSE	10.40		Pn	21:10:19.162	0.3					T__				m_e	
BALST	8.58		Pn	21:09:53.547	-0.8					T__				m_e	
BFO	8.70		Pn	21:09:54.457	-1.5					T__				m_e	
BIOA	5.65		Pn	21:09:15.139	0.5					T__				m_e ML	6.3
BRG	8.34		Pn	21:09:51.059	0.0					T__				m_e	
BSEG	12.06		Pn	21:10:42.345	1.0					T__				m_e	
BUD	4.45		Pn	21:08:56.324	-2.1					T__				m_e ML	6.1
BUG	11.20		Pn	21:10:29.247	-0.5					T__				m_e	
CLL	8.98		Pn	21:09:59.876	0.2					T__				m_e	
CLZ	10.26		Pn	21:10:16.826	-0.1					T__				m_e	
DAVA	7.26		Pn	21:09:37.004	0.5					T__				m_e	
FETA	6.63		Pn	21:09:28.108	0.2					T__				m_e	
FLT1	10.39		Pn	21:10:18.715	-0.1					T__				m_e	
FUR	7.06		Pn	21:09:33.298	-0.4					T__				m_e	
GEC2	6.59		Sn	21:10:39.688	-0.1					T__				m_e	
GEC2	6.59		Pn	21:09:27.672	0.3					T__				m_e	
GOR1	10.95		Pn	21:10:28.567	2.3					T__				m_e	
GRA1	8.21		Pn	21:09:48.330	-0.9					T__				m_e	
GTTG	10.17		Pn	21:10:16.479	0.8					T__				m_e	
IBBN	11.62		Pn	21:10:34.683	-0.7					T__				m_e	
KAST	10.53		Pn	21:10:20.119	-0.5					T__				m_e	
KBA	5.30		Pn	21:09:10.657	0.6					T__				m_e ML	6.2
LESA	5.87		Pn	21:09:18.017	0.4					T__				m_e	
MLR	6.03		Pn	21:09:20.963	1.1					T__				m_e	
MOA	5.54		Sn	21:10:14.538	-0.4					T__				m_e	
MOA	5.54		Pn	21:09:14.002	0.8					T__				m_e ML	6.2
MOTA	6.61		Sn	21:10:42.085	1.6					T__				m_e	
MOTA	6.61		Pn	21:09:28.211	0.5					T__				m_e	

MOX	8.83	Pn	21:09:57.353	-0.3	T__	m_e		
NEUB	9.24	Pn	21:10:03.379	0.1	T__	m_e		
OBKA	4.33	Pn	21:08:57.302	0.4	T__	m_e		
PLN	8.51	Pn	21:09:52.888	-0.5	T__	m_e		
PLONS	7.43	Pn	21:09:39.363	0.6	T__	m_e		
PSZ	4.99	Pn	21:09:04.135	-1.6	T__	m_e	ML	5.8
RETA	6.88	Sn	21:10:45.470	-1.4	T__	m_e		
RETA	6.88	Pn	21:09:31.244	-0.1	T__	m_e		
RUE	9.87	Pn	21:10:13.774	2.0	T__	m_e		
SLE	8.31	Pn	21:09:49.840	-0.8	T__	m_e		
SOP	4.76	Pn	21:09:01.462	-1.3	T__	m_e	ML	6.2
SQTA	6.48	Pn	21:09:26.863	0.9	T__	m_e		
STU	8.50	Pn	21:09:52.290	-0.9	T__	m_e		
SULZ	8.42	Pn	21:09:51.421	-0.7	T__	m_e		
TANN	8.35	Pn	21:09:50.659	-0.5	T__	m_e		
TIRR	7.49	Pn	21:09:40.258	0.7	T__	m_e		
TNS	9.82	Pn	21:10:10.959	-0.1	T__	m_e		
UBR	7.35	Pn	21:09:37.160	-0.6	T__	m_e		
WET	7.13	Pn	21:09:34.492	-0.2	T__	m_e		
WILA	7.89	Pn	21:09:44.652	-0.3	T__	m_e		
WLF	10.64	Pn	21:10:20.987	-1.1	T__	m_e		
WTTA	6.28	Sn	21:10:34.407	1.9	T__	m_e		
WTTA	6.28	Pn	21:09:23.775	0.6	T__	m_e		

Event 20424001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/24	01:35:10.58			46.9190	151.9130				33.0			26		74.25	79.94	m i ke	BGR
20424007																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.1		BGR	20424007
MBB	6.6		BGR	20424007
Ms	5.7		BGR	20424007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.17		P	01:47:05.269	0.2	26.3		5.58		TAS		346.7	0.97	m_e	MBB 6.7
ASSE	75.77		P	01:46:51.875	0.1	26.3		5.58		TAS		143.7	0.94	m_e	MBB 6.8
BFO	79.85		P	01:47:14.294		26.3		5.58		TAS		225.1	0.94	m_e	MBB 6.3
BRG	75.96		P	01:46:52.706	0.1	26.3		5.58		TAS		86.1	1.06	m_e	MBB 6.5
BSEG	74.25		P	01:46:43.045	-0.1	26.3		5.58		TAS		134.0	0.86	m_e	MBB 6.6
BUG	77.29		P	01:47:00.282	-0.3	26.3		5.58		TAS		190.9	0.84	m_e	MBB 6.6
CLL	75.85		P	01:46:51.946	-0.1	26.3		5.58		TAS		137.8	0.70	m_e	MBB 6.8
CLZ	76.11		P	01:46:54.145	-0.3	26.3		5.58		TAS		304.8	1.07	m_e	MBB 6.9
FLT1	75.44		P	01:46:49.297	0.3	26.3		5.58		TAS		201.6	0.95	m_e	MBB 6.7
FUR	79.16		P	01:47:10.847		26.3		5.58		TAS		244.5	0.88	m_e	MBB 6.6

GEC2	77.83	P	01:47:03.341	0.1	26.3	5.58	TAS	55.5	0.69	m_e	MBB	6.3
GOR1	74.83	P	01:46:46.700	-0.1	26.3	5.58	TAS		1.20	m_e		
GRA1	77.81	P	01:47:03.752	-0.1	26.3	5.58	TAS	274.3	0.85	m_e	mb	6.4
GRA1	77.81	L	02:25:32.674				T__	3927.8	19.10	a_e	Ms	5.8
GTTG	76.49	P	01:46:56.123	0.3	26.3	5.58	TAS	253.8	1.23	m_e	MBB	6.7
IBBN	76.38	P	01:46:55.011	0.4	26.3	5.58	TAS	190.0	0.83	m_e	MBB	6.7
KAST	77.21	P	01:47:00.078	0.0	26.3	5.58	TAS	188.8	0.89	m_e	MBB	6.5
MOX	76.84	P	01:46:57.796	0.0	26.3	5.58	TAS	100.2	0.88	m_e	MBB	6.7
MOX	76.84	L	02:27:45.124				T__	3599.4	20.00	a_e	Ms	5.7
NEUB	76.31	P	01:46:54.482	0.2	26.3	5.58	TAS	135.0	0.92	m_e	MBB	6.8
PLN	76.83	P	01:46:57.820	-0.2	26.3	5.58	TAS		0.95	m_e		
RUE	74.59	P	01:46:45.107	0.1	26.3	5.58	TAS	435.6	1.12	m_e	MBB	6.8
STU	79.21	P	01:47:10.933	-0.6	26.3	5.58	TAS	436.1	0.90	m_e	MBB	6.8
TANN	76.80	P	01:46:57.611	0.6	26.3	5.58	TAS	104.8	1.19	m_e	MBB	6.5
TNS	78.10	P	01:47:04.934	0.5	26.3	5.58	TAS	230.7	0.86	m_e	MBB	6.6
UBR	79.94	P	01:47:14.546		26.3	5.58	TAS	59.2	0.87	m_e	MBB	6.2
WET	77.81	P	01:47:03.649	-0.3	26.3	5.58	TAS	162.1	0.93	m_e	MBB	6.6
WLF	79.21	P	01:47:10.739	0.1	26.3	5.58	TAS	131.6	0.98	m_e	MBB	6.5

Event 20424002 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/24	04:27:58.27	1.11	0.81	43.2590	18.1900	18.9	7.8	174	10.0			43	243	4.15	11.87	m i ke	BGR
	20424008																

Magnitude	Err	Nsta	Author	OrigID
ML	5.1		BGR	20424008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	10.52		Pn	04:30:28.774	0.8					T__				m_e	
ARSA	4.41		Pn	04:29:04.485	0.4					T__				m_e	ML 4.8
BFO	8.55		Pn	04:29:58.908	-2.0					T__				m_e	
BIOA	5.46		Pn	04:29:19.620	1.1					T__				m_e	ML 5.2
BRG	8.14		Pn	04:29:55.020	-0.4					T__				m_e	
BSEG	11.87		Pn	04:30:47.222	0.8					T__				m_e	
BUD	4.26		Pn	04:29:00.896	-1.1					T__				m_e	ML 5.5
BUG	11.02		Pn	04:30:33.332	-1.5					T__				m_e	
CKRC	6.18		Pn	04:29:28.855	0.5					T__				m_e	
CLL	8.78		Pn	04:30:03.329	-0.8					T__				m_e	
CLZ	10.07		Pn	04:30:21.251	-0.6					T__				m_e	
FETA	6.48		Pn	04:29:32.323	-0.2					T__				m_e	
FLT1	10.20		Pn	04:30:25.517	1.9					T__				m_e	
FUR	6.88		Pn	04:29:37.171	-0.9					T__				m_e	
GEC2	6.40		Pn	04:29:31.924	0.5					T__				m_e	
GRA1	8.02		Pn	04:29:53.383	-0.4					T__				m_e	
GTTG	9.98		Pn	04:30:20.569	0.0					T__				m_e	

IBBN	11.43	Pn	04:30:40.508	-0.0	T__	m_e		
JAVC	5.61	Pn	04:29:20.572	0.0	T__	m_e ML	4.9	
KAST	10.34	Pn	04:30:24.146	-1.4	T__	m_e		
KBA	5.13	Pn	04:29:15.196	1.2	T__	m_e ML	5.2	
KHC	6.68	Pn	04:29:35.946	0.6	T__	m_e		
KRUC	5.93	Pn	04:29:24.830	-0.2	T__	m_e		
LESA	5.69	Pn	04:29:22.665	0.9	T__	m_e ML	5.1	
MLR	5.99	Pn	04:29:26.278	0.5	T__	m_e		
MOA	5.35	Pn	04:29:18.265	1.2	T__	m_e ML	5.2	
MORC	6.53	Pn	04:29:33.114	-0.1	T__	m_e		
MOTA	6.45	Pn	04:29:32.727	0.6	T__	m_e		
MOX	8.64	Pn	04:30:02.074	-0.1	T__	m_e		
NEUB	9.05	Pn	04:30:08.017	0.2	T__	m_e		
OBKA	4.15	Pn	04:29:01.534	1.0	T__	m_e		
PLN	8.32	Pn	04:29:57.162	-0.6	T__	m_e		
PSZ	4.81	Pn	04:29:08.852	-0.7	T__	m_e ML	4.9	
RETA	6.72	Pn	04:29:35.677	-0.2	T__	m_e		
SOP	4.57	Pn	04:29:06.089	-0.2	T__	m_e ML	5.2	
SQTA	6.32	Pn	04:29:31.086	0.8	T__	m_e		
STU	8.33	Pn	04:29:57.029	-1.0	T__	m_e		
TANN	8.16	Pn	04:29:55.554	-0.0	T__	m_e		
TNS	9.64	Pn	04:30:15.401	-0.6	T__	m_e		
UBR	7.19	Pn	04:29:41.600	-0.8	T__	m_e		
WET	6.94	Pn	04:29:38.863	0.0	T__	m_e		
WLF	10.47	Pn	04:30:27.727	0.4	T__	m_e		
WTTA	6.11	Pn	04:29:27.780	0.3	T__	m_e		

Event 20424003 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/24	04:30:37.00			43.6710	148.6900				41.4					79.75	79.75	m i ke	USGS
OrigID 20424021																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	20424009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.75		P	04:42:41.246		29.9		4.63		TAS		8.9	0.96	m_e mb	4.7

Event 20424004 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/24	08:16:15.94			41.8160	143.0420				30.1					78.51	79.45	m i ke	BGR
OrigID																	

20424010

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	20424010
Ms	5.3		BGR	20424010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.45		P	08:28:18.594		33.3		4.61		TAS		55.1	0.88	m_e	mb 5.5
GRA1	79.45		pP	08:28:27.281		31.8		4.51		TAS				m_e	
GRA1	79.45		L	09:06:48.537						T__		1627.6	20.10	a_e	Ms 5.4
MOX	78.51		L	09:06:10.068						T__		1552.4	20.10	a_e	Ms 5.3

Event 20424005 Southwestern Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/24	10:23:52.33			23.5120	123.1950				33.0					84.73	85.44	m i ke	BGR
OrigID 20424011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	20424011
Ms	5.2		BGR	20424011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	85.44		P	10:36:26.206		63.3		4.62		TAS		52.1	1.57	m_e	mb 5.5
GRA1	85.44		L	11:21:57.846						T__		776.9	19.20	a_e	Ms 5.1
MOX	84.73		L	11:19:27.340						T__		974.1	20.20	a_e	Ms 5.2

Event 20425001 Norwegian Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/25	00:28:02.79			72.5290	2.8440				33.0					22.27	23.19	m i ke	BGR
OrigID 20425007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	20425007
Ms	4.1		BGR	20425007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	23.19		P	00:33:06.651		352.3		9.84		TAS		33.9	1.11	m_e	mb 4.8
GRA1	23.19		L	00:41:37.259						T__		887.2	21.70	a_e	Ms 4.2
MOX	22.27		L	00:41:09.379						T__		751.4	21.60	a_e	Ms 4.1

Event 20425002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/25	05:35:57.89			46.4000	152.5220				33.0					77.49	78.46	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	20425008
Ms	5.1		BGR	20425008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.46		P	05:47:54.663		26.6		4.82		TAS		54.1	1.00	m_e	mb 5.5
GRA1	78.46		L	06:26:24.045						T__		830.0	18.60	a_e	Ms 5.1
MOX	77.49		L	06:25:17.904						T__		855.5	19.60	a_e	Ms 5.1

Event 20426001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/26	00:43:22.00			-17.8140	-180.0000				599.2					146.86	146.86	m i ke	USGS

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.86		PKPdf	01:01:58.210		19.9		1.93		TAS		4.4	0.80	m_e	

Event 20426004 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/26	19:11:21.09			33.5130	33.3080				10.0				23	21.17	26.28	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	20426010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	25.66		P	19:16:50.812	-0.8	126.5		10.15		TAS		18.0	0.86	m_e	mb 4.7
ASSE	24.75		P	19:16:41.079	0.1	126.5		10.15		TAS		14.2	1.03	m_e	mb 4.6
BFO	23.83		P	19:16:34.780		126.5		10.15		TAS		26.5	0.71	m_e	mb 4.9
BRG	22.39		P	19:16:17.363	-0.8	126.5		10.15		TAS		35.6	0.85	m_e	mb 4.8
BSEG	26.10		P	19:16:54.270	-0.5	126.5		10.15		TAS		36.2	1.11	m_e	mb 4.9

BUG	26.04	P	19:16:54.252	0.3	126.5	10.15	TAS	21.7	1.00	m_e	mb	4.7
CLL	23.12	P	19:16:24.572	-0.1	126.5	10.15	TAS	16.5	0.58	m_e	mb	4.8
CLZ	24.71	P	19:16:40.898	-0.5	126.5	10.15	TAS	21.2	0.80	m_e	mb	4.9
FLT1	24.62	P	19:16:37.948	-0.7	126.5	10.15	TAS	13.5	0.83	m_e	mb	4.7
FUR	22.07	P	19:16:13.858		126.5	10.15	TAS	42.2	0.69	m_e	mb	5.0
GEC2	21.17	P	19:16:05.035		126.5	10.15	TAS	31.8	0.83	m_e	mb	4.7
GRA1	22.97	P	19:16:23.089	0.6	126.5	10.15	TAS	18.0	0.73	m_e	mb	4.7
GTTG	24.73	P	19:16:41.203	0.1	126.5	10.15	TAS	25.8	0.79	m_e	mb	5.0
IBBN	26.28	P	19:16:56.793	-0.2	126.5	10.15	TAS	35.6	1.24	m_e	mb	4.9
KAST	25.31	P	19:16:46.993	-0.2	126.5	10.15	TAS	9.9	0.82	m_e	mb	4.6
NEUB	23.63	P	19:16:30.103	-0.1	126.5	10.15	TAS	31.8	0.93	m_e	mb	4.8
PLN	22.98	P	19:16:23.552	-0.4	126.5	10.15	TAS	8.9	0.84	m_e	mb	4.3
RGN	25.29	P	19:16:45.624	2.4	126.5	10.15	TAS	109.4	1.19	m_e	mb	5.5
STU	23.56	P	19:16:29.474		126.5	10.15	TAS	100.3	0.80	m_e	mb	5.4
TANN	22.79	P	19:16:21.578	0.2	126.5	10.15	TAS	24.3	0.88	m_e	mb	4.7
TNS	24.75	P	19:16:40.927	3.3	126.5	10.15	TAS	16.7	0.72	m_e	mb	4.9
UBR	22.48	P	19:16:18.382		126.5	10.15	TAS	27.1	0.80	m_e	mb	4.7
WET	21.78	P	19:16:10.877		126.5	10.15	TAS	70.5	0.74	m_e	mb	5.2

Event 20427001 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/27	01:51:54.35	1.72	1.41	36.9520	22.1960	47.8	41.1	109	10.0			27	346	13.40	19.85	m i ke	BGR
OrigID 20427007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	20427007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	17.38		P	01:56:05.230	1.5	144.0		12.49		TAS				m_e		
ASSE	17.21		P	01:56:03.191	1.0	144.0		12.49		TAS				m_e		
BFO	15.24		P	01:55:36.316	0.6	144.0		12.49		TAS				m_e		
BRG	15.11		P	01:55:35.693	1.1	144.0		12.49		TAS				m_e		
BSEG	18.86		P	01:56:20.203		144.0		12.49		TAS		81.8	0.79	m_e	mb	5.0
BUG	17.95		P	01:56:10.861	-0.7	144.0		12.49		TAS				m_e		
CLL	15.77		P	01:55:44.547	1.2	144.0		12.49		TAS				m_e		
CLZ	17.07		P	01:56:01.380	0.7	144.0		12.49		TAS				m_e		
FLT1	17.20		P	01:56:02.129	0.5	144.0		12.49		TAS				m_e		
FUR	13.77		P	01:55:17.040	-2.2	144.0		12.49		TAS				m_e		
GEC2	13.40		P	01:55:12.019	-2.7	144.0		12.49		TAS				m_e		
GOR1	17.75		P	01:56:09.366	1.3	144.0		12.49		TAS				m_e		
GRA1	15.00		P	01:55:32.132	-2.9	144.0		12.49		TAS				m_e		
GTTG	16.98		P	01:56:00.320	0.7	144.0		12.49		TAS				m_e		
HLG	19.85		P	01:56:30.665		144.0		12.49		TAS		85.7	0.51	m_e	mb	5.2
IBBN	18.41		P	01:56:15.757	-1.7	144.0		12.49		TAS				m_e		
KAST	17.30		P	01:56:03.381	-0.2	144.0		12.49		TAS				m_e		

MOX	15.64	P	01:55:42.253	-0.6	144.0	12.49	TAS	m_e
NEUB	16.06	P	01:55:48.786	1.1	144.0	12.49	TAS	m_e
PLN	15.32	P	01:55:39.701	1.0	144.0	12.49	TAS	m_e
RUE	16.61	P	01:55:55.592	3.6	144.0	12.49	TAS	m_e
STU	15.15	P	01:55:35.851	0.1	144.0	12.49	TAS	m_e
TANN	15.16	P	01:55:37.217	0.6	144.0	12.49	TAS	m_e
TNS	16.54	P	01:55:55.422	1.6	144.0	12.49	TAS	m_e
UBR	13.94	P	01:55:20.435	0.2	144.0	12.49	TAS	m_e
WET	13.94	P	01:55:19.210	-2.4	144.0	12.49	TAS	m_e
WLF	17.20	P	01:56:02.933	2.9	144.0	12.49	TAS	m_e

Event 20427005 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/27	18:53:26.39	0.29	0.58	51.5140	16.2090	3.3	2.2	22	1.0			19	149	0.67	3.66	m i k i	BGR
20427011																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.1		BGR	20427011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	3.49		Pn	18:54:21.112	0.7					T__				m_e	ML 4.0
BRG	1.56		Sg	18:54:16.140	0.1					T__				m_e	
BRG	1.56		Pn	18:53:54.820	0.4					T__				m_e	ML 3.9
CLL	2.02		Sg	18:54:29.600	-0.9					T__				m_e	
CLL	2.02		Pn	18:53:59.930	-0.6					T__				m_e	ML 3.9
CLZ	3.64		Pn	18:54:23.169	0.6					T__				m_e	ML 4.2
DPC	1.17		Sg	18:54:03.550	0.2					T__				m_e	
DPC	1.17		Pg	18:53:48.372	0.1					T__				m_e	ML 4.0
GEC2	3.12		Sg	18:55:04.356	-1.1					T__				m_e	
GEC2	3.12		Pn	18:54:16.145	0.7					T__				m_e	ML 4.2
GRA1	3.66		Sg	18:55:22.679	0.0					T__				m_e	
GRA1	3.66		Pn	18:54:23.575	0.8					T__				m_e	ML 4.6
KSP	0.67		Sg	18:53:47.564	-0.2					T__				m_e	
KSP	0.67		Pg	18:53:39.517	0.4					T__				m_e	ML 3.2
LNIZ	2.33		Pn	18:54:03.778	-1.0					T__				m_e	ML 4.5
MANZ	3.02		Sg	18:55:02.427	0.2					T__				m_e	
MANZ	3.02		Pn	18:54:14.638	0.6					T__				m_e	ML 4.3
MORC	1.93		Pn	18:53:59.672	0.2					T__				m_e	ML 4.2
MOX	3.02		Sg	18:55:02.686	0.3					T__				m_e	
MOX	3.02		Pn	18:54:14.159	0.0					T__				m_e	ML 4.4
MOX	3.02		Pg	18:54:23.126	-0.2					T__				m_e	
OJC	2.62		Sg	18:54:49.881	0.4					T__				m_e	
OJC	2.62		Pn	18:54:07.772	-0.9					T__				m_e	ML 4.1
OKC	2.08		Sg	18:54:31.879	-0.6					T__				m_e	
OKC	2.08		Pn	18:54:01.120	-0.3					T__				m_e	ML 3.6

ROTZ	3.09	Sg	18:55:03.748	-0.7	T__	m_e													
ROTZ	3.09	Pn	18:54:15.246	0.2	T__	m_e ML	4.0												
RUE	1.78	Sg	18:54:22.889	-0.1	T__	m_e													
RUE	1.78	Pn	18:53:56.641	-0.8	T__	m_e ML	4.0												
TANN	2.61	Sg	18:54:48.393	-0.9	T__	m_e													
TANN	2.61	Pn	18:54:09.099	0.5	T__	m_e ML	4.3												
WERD	2.68	Sg	18:54:52.722	1.0	T__	m_e													
WERD	2.68	Pn	18:54:09.836	0.2	T__	m_e ML	4.1												
WET	3.19	Pn	18:54:16.785	0.4	T__	m_e ML	4.0												

Event 20427004 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/27	23:09:23.90			-19.2900	167.5400				10.0					143.30	144.20	m i ke	NEIC
20427043																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.7		BGR	20427010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	144.20		PKPbc	23:28:56.835		50.0		3.55		TAS		29.3	1.05	m_e	
GRA1	144.20		L	00:35:50.362						T__		112.8	20.80	a_e Ms	4.6
MOX	143.30		L	00:40:54.188						T__		135.8	19.50	a_e Ms	4.7

Event 20428001 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/28	03:33:40.68			56.4650	-156.1480				33.0					72.65	73.56	m i ke	BGR
20428007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	20428007
Ms	4.1		BGR	20428007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	73.56		P	03:45:09.456		349.2		5.32		TAS		56.4	0.87	m_e mb	5.6
GRA1	73.56		L	04:16:11.966						T__		109.7	21.60	a_e Ms	4.1
MOX	72.65		L	04:22:49.257						T__		95.2	21.30	a_e Ms	4.0

Event 20429008 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/29	14:00:34.44			-16.1900	-173.3920				10.0			16		144.21	148.37	m i ke	BGR
OrigID 20429014																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.82		PKPbc	14:20:19.026		8.0		3.03		TAS				m_e	
BRG	144.81		PKPbc	14:20:09.816	-0.5	8.0		3.03		TAS				m_e	
BUG	144.73		PKPbc	14:20:09.676	0.2	8.0		3.03		TAS				m_e	
CLL	144.50		PKPbc	14:20:08.558	0.1	8.0		3.03		TAS				m_e	
CLZ	144.21		PKPbc	14:20:07.855		8.0		3.03		TAS				m_e	
FUR	147.79		PKPbc	14:20:19.069		8.0		3.03		TAS				m_e	
GEC2	146.83		PKPbc	14:20:16.339		8.0		3.03		TAS				m_e	
GTTG	144.53		PKPbc	14:20:09.339	0.4	8.0		3.03		TAS				m_e	
KAST	144.95		PKPbc	14:20:10.367	-0.2	8.0		3.03		TAS				m_e	
MOX	145.30		PKPbc	14:20:11.741		8.0		3.03		TAS				m_e	
NEUB	144.74		PKPbc	14:20:09.684	0.1	8.0		3.03		TAS				m_e	
PLN	145.41		PKPbc	14:20:12.062		8.0		3.03		TAS				m_e	
TANN	145.44		PKPbc	14:20:12.215		8.0		3.03		TAS				m_e	
TNS	145.92		PKPbc	14:20:13.728		8.0		3.03		TAS				m_e	
UBR	148.37		PKPbc	14:20:20.260		8.0		3.03		TAS				m_e	
WET	146.64		PKPbc	14:20:15.784		8.0		3.03		TAS				m_e	
WLF	146.51		PKPbc	14:20:15.940		8.0		3.03		TAS				m_e	

Event 20429007 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/29	14:01:43.46	2.68	1.19	37.9920	24.3360	72.3	71.2	152	10.0			21	346	13.30	18.62	m i ke	BGR
OrigID 20429013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.0		BGR	20429013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	17.55		P	14:05:52.777		136.3		11.21		TAS		13.1	0.85	m_e mb	4.1
ASSE	17.06		P	14:05:44.824	-1.5	136.3		11.21		TAS		5.4	0.83	m_e mb	3.7
BFO	15.56		P	14:05:25.066	-1.8	136.3		11.21		TAS				m_e	
BRG	14.84		P	14:05:18.892	1.4	136.3		11.21		TAS				m_e	
BSEG	18.62		P	14:05:59.404		136.3		11.21		TAS		14.2	0.80	m_e mb	4.2
BUG	18.04		P	14:05:53.323		136.3		11.21		TAS		15.1	0.99	m_e mb	4.1
CLL	15.53		P	14:05:26.301	0.3	136.3		11.21		TAS				m_e	
FLT1	17.01		P	14:05:42.910	3.8	136.3		11.21		TAS		8.9	0.70	m_e mb	4.0
FUR	13.92		P	14:05:08.306	0.0	136.3		11.21		TAS				m_e	
GEC2	13.30		P	14:05:00.387	-1.2	136.3		11.21		TAS		7.7	0.68	m_e	

GRA1	15.01	P	14:05:21.241	0.3	136.3	11.21	TAS									m_e
GTTG	16.91	P	14:05:41.297	-0.7	136.3	11.21	TAS				11.7	0.84				m_e
IBBN	18.41	P	14:05:57.221		136.3	11.21	TAS				10.0	0.85				m_e
KAST	17.35	P	14:05:46.521	-1.9	136.3	11.21	TAS				8.2	0.79				m_e
MOX	15.55	P	14:05:27.051	-0.3	136.3	11.21	TAS				4.3	0.72				m_e
NEUB	15.91	P	14:05:28.727	-0.9	136.3	11.21	TAS				14.9	0.86				m_e
TANN	15.03	P	14:05:21.255	0.5	136.3	11.21	TAS									m_e
TNS	16.67	P	14:05:39.015	1.4	136.3	11.21	TAS				14.0	0.73				m_e
UBR	14.21	P	14:05:10.473	-0.1	136.3	11.21	TAS									m_e
WET	13.88	P	14:05:07.494	-0.7	136.3	11.21	TAS									m_e
WLF	17.50	P	14:05:47.293	-0.2	136.3	11.21	TAS				17.4	0.78				m_e

Event 20430001 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/04/30	00:47:05.74			-23.1520	-172.7780				599.3	3.2		13		149.09	155.32	m i ke	BGR
	20430007																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	151.75		PKPbc	01:05:54.137		8.2		2.36		TAS					m_e
BSEG	149.09		PKPbc	01:05:48.770	-0.1	8.2		2.36		TAS					m_e
CLL	151.45		PKPbc	01:05:53.650	0.1	8.2		2.36		TAS					m_e
CLL	151.45		pPKPbc	01:08:10.145						T__					m_e
CLZ	151.17		PKPbc	01:05:54.006	0.2	8.2		2.36		TAS					m_e
FLT1	150.62		PKPbc	01:05:51.916	-0.2	8.2		2.36		TAS					m_e
GEC2	153.76		PKPbc	01:05:58.851		8.2		2.36		TAS					m_e
GOR1	149.96		PKPbc	01:05:50.454	0.1	8.2		2.36		TAS					m_e
IBBN	150.80		PKPbc	01:05:51.162	-0.5	8.2		2.36		TAS					m_e
MOX	152.25		PKPbc	01:05:55.880		8.2		2.36		TAS					m_e
PLN	152.36		PKPbc	01:05:56.111		8.2		2.36		TAS					m_e
RUE	150.21		PKPbc	01:05:50.844	-1.3	8.2		2.36		TAS					m_e
TANN	152.39		PKPbc	01:05:56.144		8.2		2.36		TAS					m_e
TANN	152.39		pPKPbc	01:08:13.891						T__					m_e
UBR	155.32		PKPbc	01:06:03.482		8.2		2.36		TAS					m_e