

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

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

July 2021 UPDATED 8.November 2022

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

Event 10701002 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/01	15:06:43.93			-0.2240	78.4420				10.0			22		73.83	78.80	m i ke	BGR
OrigID 10701008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	10701008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.43		P	15:18:46.338		107.9		5.73		TAS		6.9	0.85	m_e mb	4.7
ASSE	76.71		P	15:18:35.998	0.3	107.9		5.73		TAS		14.9	1.14	m_e mb	5.0
BFO	77.08		P	15:18:37.928	0.5	107.9		5.73		TAS		15.2	1.18	m_e mb	5.0
BFO	77.08		X	15:18:51.549		108.8		5.68		TAS				m_e	
BRG	74.37		P	15:18:22.764	0.2	107.9		5.73		TAS		5.3	0.86	m_e mb	4.6
BSEG	77.47		P	15:18:39.922	0.3	107.9		5.73		TAS		15.3	1.30	m_e mb	5.0
CLL	75.08		P	15:18:26.873	0.3	107.9		5.73		TAS		11.6	0.79	m_e mb	5.1
CLL	75.08		X	15:18:40.487	-0.1	108.8		5.68		TAS				m_e	
CLZ	76.80		P	15:18:36.661	-0.4	107.9		5.73		TAS		9.0	0.70	m_e mb	5.0
CLZ	76.80		X	15:18:50.307		108.8		5.68		TAS				m_e	
FLT1	76.45		P	15:18:33.949	0.3	107.9		5.73		TAS		10.2	1.34	m_e mb	4.8
GEC2	73.83		P	15:18:19.239	-0.2	107.9		5.73		TAS		9.1	1.12	m_e mb	4.7
GOR1	76.61		P	15:18:34.913	-0.1	107.9		5.73		TAS		9.3	0.67	m_e mb	5.0
GRB1	75.28		P	15:18:27.863	0.3	107.9		5.73		TAS		10.4	0.90	m_e mb	5.0
GRC1	75.24		P	15:18:27.164	0.4	107.9		5.73		TAS		7.6	0.73	m_e mb	4.9
GTTG	76.96		P	15:18:37.712	-0.3	107.9		5.73		TAS		8.9	0.75	m_e mb	5.0
IBBN	78.48		P	15:18:46.478		107.9		5.73		TAS		13.0	0.85	m_e mb	5.0
IBBN	78.48		X	15:19:00.110		108.8		5.68		TAS				m_e	
KAST	77.79		P	15:18:41.928		107.9		5.73		TAS		6.3	1.02	m_e mb	4.7
KAST	77.79		X	15:18:55.746		108.8		5.68		TAS				m_e	
MOX	75.69		P	15:18:30.520	-0.5	107.9		5.73		TAS		5.7	0.76	m_e mb	4.8

./bul2107.txt

Wed Jan 11 09:16:11 2023

3

CLZ	146.94	PKPbc	16:01:06.778	0.3	35.6	2.79	TAS	a_e										
FLT1	146.24	PKPbc	16:01:04.128	-0.4	35.6	2.79	TAS	a_e										
GEC2	147.98	PKPbc	16:01:09.578	-0.1	35.6	2.79	TAS	m_e										
GOR1	145.67	PKPbc	16:01:02.878	-0.0	35.6	2.79	TAS	a_e										
GTTG	147.33	PKPbc	16:01:07.978	0.4	35.6	2.79	TAS	a_e										
IBBN	147.40	PKPbc	16:01:07.828	-0.1	35.6	2.79	TAS	a_e										
KAST	148.14	PKPbc	16:01:09.978	0.1	35.6	2.79	TAS	a_e										
MOX	147.46	PKPbc	16:01:08.170	0.2	35.6	2.79	TAS	m_e										
MOX	147.46	L	17:06:32.687				T__				140.4	21.60	a_e Ms				4.7	
NEUB	146.96	PKPbc	16:01:06.628	0.1	35.6	2.79	TAS	a_e										
PLN	147.38	PKPbc	16:01:07.928	0.2	35.6	2.79	TAS	a_e										
RETH	146.53	PKPbc	16:01:04.902	-0.5	35.6	2.79	TAS	m_e										
STU	149.90	PKPbc	16:01:14.578	-0.2	35.6	2.79	TAS	a_e										
TANN	147.31	PKPbc	16:01:07.828	0.3	35.6	2.79	TAS	a_e										
TNS	148.96	PKPbc	16:01:12.426	0.3	35.6	2.79	TAS	m_e										
WET	148.11	PKPbc	16:01:10.128	0.2	35.6	2.79	TAS	a_e										
WLF	150.20	PKPbc	16:01:15.878	0.2	35.6	2.79	TAS	a_e										

Event 10702001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/02	04:09:44.90			47.9230	151.8600				33.0			11		74.51	78.92	m i ke	BGR
10702007																	

Magnitude Err Nsta Author OrigID
mb 4.8 BGR 10702007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.92		P	04:21:44.384	-0.4	25.9		5.65		TAS		9.5	1.02	m_e mb	4.8
BRG	75.04		P	04:21:22.733	0.5	25.9		5.65		TAS				m_e	
CLL	74.93		P	04:21:21.906	-0.5	25.9		5.65		TAS		18.7	1.14	m_e mb	5.0
CLZ	75.18		P	04:21:24.138	0.2	25.9		5.65		TAS		13.3	0.96	m_e mb	4.9
FLT1	74.51		P	04:21:19.427	0.1	25.9		5.65		TAS		13.1	0.85	m_e mb	5.0
KAST	76.27		P	04:21:30.005		25.9		5.65		TAS		10.3	0.97	m_e mb	4.9
MOX	75.91		P	04:21:27.939		25.9		5.65		TAS		14.3	1.15	m_e mb	5.0
PLN	75.90		P	04:21:28.022		25.9		5.65		TAS		3.7	1.14	m_e mb	4.4
RETH	74.63		P	04:21:20.584		25.9		5.65		TAS		10.1	1.17	m_e mb	4.7
TNS	77.16		P	04:21:34.963		25.9		5.65		TAS		11.5	0.93	m_e mb	5.0
WET	76.89		P	04:21:33.806		25.9		5.65		TAS		6.6	0.95	m_e mb	4.8

Event 10702007 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
10702007																	

2021/07/02 17:38:39.32 47.9640 151.9920 33.0 24 73.30 78.92 m i ke BGR 10702013

Magnitude Err Nsta Author OrigID
mb 5.2 BGR 10702013
Ms 4.9 BGR 10702013

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, BSEG, BUG, CLL, CLZ, FLT1, FUR, GEC2, GOR1, GTTG, IBBN, KAST, MOX, NEUB, PLN, RETH, STU, TANN, TNS, WET, WLF.

Event 10702008 South of Fiji Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2021/07/02 20:13:30.20 -23.1240 -177.9540 33.0 21 148.52 154.27 m i ke BGR
10702014

Magnitude Err Nsta Author OrigID

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 ASSE, BFO, BRG.

BSEG	148.52	PKPbc	20:33:13.919	-0.4	18.5	2.33	TAS	m_e
CLL	150.54	PKPbc	20:33:18.991	0.2	18.5	2.33	TAS	m_e
CLZ	150.54	PKPbc	20:33:19.423	0.5	18.5	2.33	TAS	m_e
FLT1	149.92	PKPbc	20:33:17.292	-0.2	18.5	2.33	TAS	m_e
GEC2	152.65	PKPbc	20:33:23.658		18.5	2.33	TAS	m_e
GOR1	149.28	PKPbc	20:33:15.997	0.0	18.5	2.33	TAS	m_e
GTTG	150.89	PKPbc	20:33:20.106	0.3	18.5	2.33	TAS	m_e
HLG	148.59	PKPbc	20:33:14.648	-0.1	18.5	2.33	TAS	m_e
IBBN	150.45	PKPbc	20:33:18.937	-0.1	18.5	2.33	TAS	m_e
KAST	151.45	PKPbc	20:33:21.392	0.1	18.5	2.33	TAS	m_e
MOX	151.45	PKPbc	20:33:21.068	0.1	18.5	2.33	TAS	m_e
NEUB	150.90	PKPbc	20:33:19.827	0.1	18.5	2.33	TAS	m_e
PLN	151.49	PKPbc	20:33:21.257	0.2	18.5	2.33	TAS	m_e
RETH	149.82	PKPbc	20:33:17.319	-0.1	18.5	2.33	TAS	m_e
RUE	149.27	PKPbc	20:33:15.700	-0.2	18.5	2.33	TAS	m_e
TANN	151.49	PKPbc	20:33:21.284	0.1	18.5	2.33	TAS	m_e
TNS	152.41	PKPbc	20:33:23.469	-0.1	18.5	2.33	TAS	m_e
WET	152.58	PKPbc	20:33:23.550	-0.4	18.5	2.33	TAS	m_e

Event 10703001 Socotra region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/03	17:04:29.83			13.3680	55.4300				26.7	0.4		23		49.29	54.29	m i ke	BGR
OrigID 10703007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	10703007
Ms	4.7		BGR	10703007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	52.63		P	17:13:41.457	0.0	119.4		7.51		TAS		103.3	1.36	a_e mb	5.6
ASSE	52.63		pP	17:13:48.770						T__				m_e	
BFO	52.19		P	17:13:38.457		119.4		7.51		TAS		81.7	1.34	a_e mb	5.5
BRG	50.24		P	17:13:23.357	0.1	119.4		7.51		TAS		66.1	1.38	m_e mb	5.4
BSEG	53.75		P	17:13:49.007	-0.4	119.4		7.51		TAS		70.6	1.68	a_e mb	5.4
BUG	54.16		P	17:13:52.907	-0.2	119.4		7.51		TAS		104.9	1.62	a_e mb	5.6
CLL	50.97		P	17:13:29.207	0.3	119.4		7.51		TAS		141.9	1.45	a_e mb	5.7
CLL	50.97		pP	17:13:36.382						T__				m_e	
CLZ	52.65		P	17:13:41.907	0.3	119.4		7.51		TAS		120.3	1.36	a_e mb	5.7
FLT1	52.44		P	17:13:39.707	-0.2	119.4		7.51		TAS		145.1	1.47	a_e mb	5.7
FUR	50.35		P	17:13:24.557		119.4		7.51		TAS				a_e	
GEC2	49.29		P	17:13:16.407	0.5	119.4		7.51		TAS		55.9	1.53	a_e mb	5.4
GOR1	52.75		P	17:13:42.107	0.0	119.4		7.51		TAS		130.9	1.35	a_e mb	5.7
GTTG	52.73		P	17:13:42.407	0.1	119.4		7.51		TAS		100.9	1.22	a_e mb	5.6
IBBN	54.29		P	17:13:53.957	-0.1	119.4		7.51		TAS		87.0	1.26	a_e mb	5.6
MOX	51.38		P	17:13:32.257	0.2	119.4		7.51		TAS		83.7	1.59	a_e mb	5.4

MOX	51.38	L	17:38:49.481							T__	751.0	20.90	a_e	Ms	4.7
NEUB	51.57	P	17:13:33.707	-0.1	119.4			7.51		TAS	229.2	1.33	a_e	mb	5.9
NEUB	51.57	pP	17:13:40.992							T__			m_e		
PLN	51.00	P	17:13:29.507	-0.3	119.4			7.51		TAS	29.6	1.52	a_e	mb	5.0
RETH	53.64	P	17:13:49.107	0.1	119.4			7.51		TAS	133.5	1.30	a_e	mb	5.8
RETH	53.64	pP	17:13:56.432							T__			m_e		
RUE	51.21	P	17:13:30.607	0.2	119.4			7.51		TAS	222.3	1.27	a_e	mb	5.9
STU	51.86	P	17:13:35.057	0.2	119.4			7.51		TAS	162.0	1.78	a_e	mb	5.7
TANN	50.80	P	17:13:28.007	0.2	119.4			7.51		TAS	90.1	1.54	a_e	mb	5.5
TNS	52.95	P	17:13:43.707	-0.7	119.4			7.51		TAS	84.4	1.44	a_e	mb	5.5
WET	49.91	P	17:13:20.407	-0.6	119.4			7.51		TAS	35.6	1.39	a_e	mb	5.1
WLF	54.05	P	17:13:52.307	-0.1	119.4			7.51		TAS	81.7	1.27	a_e	mb	5.6

Event 10703002 Socotra region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/03	17:12:31.26			13.6040	54.7690				22.4	3.5		9		49.69	53.09	m i ke	BGR
OrigID 10703008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	10703008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	49.69		P	17:21:20.096			119.9	7.55		TAS		17.3	1.48	m_e	mb	4.8
BRG	49.69		pP	17:21:26.623						T__				m_e		
CLL	50.43		P	17:21:25.769	-0.2	119.9		7.55		TAS		34.5	1.50	m_e	mb	5.1
CLL	50.43		pP	17:21:32.399						T__				m_e		
CLZ	52.10		P	17:21:38.792	0.2	119.9		7.55		TAS		14.8	1.16	m_e	mb	4.8
FLT1	51.90		P	17:21:36.651	-0.2	119.9		7.55		TAS		18.2	1.14	m_e	mb	4.9
FLT1	51.90		pP	17:21:41.786						T__				m_e		
NEUB	51.02		P	17:21:30.129		119.9		7.55		TAS		60.8	1.34	m_e	mb	5.4
PLN	50.44		P	17:21:26.246		119.9		7.55		TAS		13.2	1.75	m_e	mb	4.6
RETH	53.09		P	17:21:45.948	0.3	119.9		7.55		TAS		29.0	1.27	m_e	mb	5.1
TANN	50.24		P	17:21:24.632		119.9		7.55		TAS		21.3	1.53	m_e	mb	4.8
TNS	52.38		P	17:21:40.581		119.9		7.55		TAS		15.0	1.32	m_e	mb	4.8

Event 10705004 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/05	18:46:21.60			-25.1350	179.8710				33.0			15		150.12	154.01	m i ke	BGR
OrigID 10705010																	

Magnitude	Err	Nsta	Author	OrigID
-----------	-----	------	--------	--------

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	151.75		PKPbc	19:06:13.570	0.1	23.9		2.20		TAS				a_e	
BRG	152.05		PKPbc	19:06:14.170	0.1	23.9		2.20		TAS				m_e	
BSEG	150.12		PKPbc	19:06:09.820	-0.2	23.9		2.20		TAS				a_e	
CLL	151.93		PKPbc	19:06:13.770	-0.1	23.9		2.20		TAS				a_e	
CLZ	152.08		PKPbc	19:06:14.520	0.3	23.9		2.20		TAS				a_e	
FLT1	151.43		PKPbc	19:06:12.520	-0.3	23.9		2.20		TAS				a_e	
GEC2	153.91		PKPbc	19:06:18.070	-0.2	23.9		2.20		TAS				a_e	
GOR1	150.80		PKPbc	19:06:11.620	0.2	23.9		2.20		TAS				a_e	
IBBN	152.13		PKPbc	19:06:14.570	-0.1	23.9		2.20		TAS				a_e	
KAST	153.08		PKPbc	19:06:16.570	0.0	23.9		2.20		TAS				a_e	
MOX	152.90		PKPbc	19:06:16.020	0.1	23.9		2.20		TAS				a_e	
PLN	152.90		PKPbc	19:06:16.020	0.1	23.9		2.20		TAS				a_e	
RETH	151.44		PKPbc	19:06:12.920	-0.0	23.9		2.20		TAS				a_e	
TANN	152.88		PKPbc	19:06:16.070	0.1	23.9		2.20		TAS				a_e	
TNS	154.01		PKPbc	19:06:18.520	-0.0	23.9		2.20		TAS				a_e	

Event 10707006 India-Bangladesh border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/07	03:15:32.77		25.8720	89.2020					26.1	0.1		23		61.16	66.35	m i ke	BGR
OrigID 10707012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	10707012
Ms	4.7		BGR	10707012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	65.58		P	03:26:12.312	-0.2	81.0		6.65		TAS		21.9	1.03	a_e mb	5.3
ASSE	63.09		P	03:25:55.562	-0.2	81.0		6.65		TAS		23.2	1.25	a_e mb	5.2
BRG	61.23		P	03:25:43.512	-0.0	81.0		6.65		TAS		21.0	1.05	m_e mb	4.9
BRG	61.23		pP	03:25:50.819						T__				m_e	
BSEG	63.05		P	03:25:55.812	0.6	81.0		6.65		TAS		56.4	1.15	a_e mb	5.6
CLL	61.76		P	03:25:46.612	-0.5	81.0		6.65		TAS		12.5	1.03	a_e mb	5.1
CLZ	63.31		P	03:25:57.512	0.2	81.0		6.65		TAS		35.9	0.95	a_e mb	5.5
CLZ	63.31		pP	03:26:04.818						T__				m_e	
FLT1	62.72		P	03:25:52.762	-0.6	81.0		6.65		TAS		17.4	0.96	a_e mb	5.2
GEC2	61.63		P	03:25:46.462	0.2	81.0		6.65		TAS		28.4	0.98	a_e mb	5.5
GOR1	62.59		P	03:25:52.712	0.4	81.0		6.65		TAS		50.7	1.11	a_e mb	5.6
GRA1	63.12		P	03:25:56.762	0.6	81.0		6.65		TAS		49.7	1.41	a_e mb	5.5
GRA1	63.12		L	03:56:19.156						T__		402.3	20.30	a_e Ms	4.6
GTTG	63.61		P	03:25:59.362	0.0	81.0		6.65		TAS		38.9	1.20	a_e mb	5.5
IBBN	64.83		P	03:26:07.262	-0.1	81.0		6.65		TAS		30.0	0.98	a_e mb	5.5
KAST	64.63		P	03:26:06.012	-0.1	81.0		6.65		TAS		18.2	1.10	a_e mb	5.2
MOX	62.72		P	03:25:53.412	-0.1	81.0		6.65		TAS		17.7	1.03	a_e mb	5.1

AHRW	47.85	P	08:29:10.935	0.3	85.6	7.87	TAS	29.8	0.69	a_e	mb	5.5
ASSE	45.43	P	08:28:51.269	-0.3	85.6	7.87	TAS	8.8	0.72	m_e	mb	4.8
BFO	47.40	P	08:29:06.735		85.6	7.87	TAS	11.9	0.91	a_e	mb	5.0
BRG	43.48	P	08:28:36.585	0.0	85.6	7.87	TAS	43.0	0.75	a_e	mb	5.3
BSEG	45.52	P	08:28:52.770	0.5	85.6	7.87	TAS	48.9	0.75	m_e	mb	5.6
BUG	47.60	P	08:29:08.623	-0.3	85.6	7.87	TAS	29.9	0.80	m_e	mb	5.5
CLL	44.04	P	08:28:40.399	-0.1	85.6	7.87	TAS	25.6	0.75	m_e	mb	5.0
CLZ	45.64	P	08:28:53.228	-0.4	85.6	7.87	TAS	25.5	0.79	m_e	mb	5.3
FLT1	45.07	P	08:28:48.485	-0.6	85.6	7.87	TAS	80.9	0.70	a_e	mb	5.8
GEC2	43.80	P	08:28:38.842		85.6	7.87	TAS	8.3	0.77	m_e	mb	4.5
HLG	46.94	P	08:29:03.810	0.5	85.6	7.87	TAS	138.1	1.33	m_e	mb	5.9
IBBN	47.19	P	08:29:05.507	-0.5	85.6	7.87	TAS	47.1	0.74	m_e	mb	5.7
KAST	46.92	P	08:29:03.292	0.2	85.6	7.87	TAS	5.7	0.79	m_e	mb	4.8
MOX	44.97	P	08:28:48.385	0.0	85.6	7.87	TAS	18.5	0.68	m_e	mb	5.1
NEUB	44.82	P	08:28:46.985	0.2	85.6	7.87	TAS	46.1	0.78	a_e	mb	5.5
PLN	44.64	P	08:28:45.531	0.2	85.6	7.87	TAS	6.1	0.82	m_e	mb	4.6
RETH	46.18	P	08:28:57.835	-0.7	85.6	7.87	TAS	13.2	0.97	a_e	mb	4.9
RGN	43.75	P	08:28:38.822	0.7	85.6	7.87	TAS	144.9	1.02	m_e	mb	5.7
RUE	43.51	P	08:28:36.001	-0.3	85.6	7.87	TAS	54.4	0.81	m_e	mb	5.3
TANN	44.45	P	08:28:44.385	0.3	85.6	7.87	TAS	14.8	0.92	a_e	mb	4.7
TNS	47.03	P	08:29:04.535	0.5	85.6	7.87	TAS	15.6	0.99	a_e	mb	5.1
WLF	48.58	P	08:29:16.835	0.1	85.6	7.87	TAS	46.2	0.79	a_e	mb	5.6

Event 10708006 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/08	11:17:34.93			32.2850	142.2230				33.0			9		84.50	87.42	m i ke	BGR
10708012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	10708012
Ms	4.9		BGR	10708012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	85.39		P	11:30:08.390		39.7		4.82		TAS		9.7	0.87	m_e	mb	5.0
BSEG	84.50		P	11:30:04.201	0.2	39.7		4.82		TAS		29.3	1.01	m_e	mb	5.5
CLL	85.45		P	11:30:08.587	0.1	39.7		4.82		TAS		24.8	0.96	m_e	mb	5.3
CLZ	86.10		P	11:30:12.252	-0.0	39.7		4.82		TAS		25.5	1.05	m_e	mb	5.3
FLT1	85.39		P	11:30:07.736	0.5	39.7		4.82		TAS		20.7	0.86	m_e	mb	5.4
GRA1	87.42		L	12:14:30.204						T__		530.9	21.20	a_e	Ms	4.9
IBBN	86.73		P	11:30:14.673	-0.6	39.7		4.82		TAS		26.4	0.89	m_e	mb	5.4
KAST	87.36		P	11:30:17.815	0.0	39.7		4.82		TAS		10.0	1.11	m_e	mb	4.9
MOX	86.53		P	11:30:13.822		39.7		4.82		TAS		10.6	1.20	m_e	mb	4.8
MOX	86.53		L	12:12:25.550						T__		476.8	21.70	a_e	Ms	4.9
RETH	85.79		P	11:30:10.223	-0.1	39.7		4.82		TAS		17.5	1.02	m_e	mb	5.1

Event 10708009 Qinghai, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/08	13:23:32.20			34.1430	97.3340				33.0			13		60.44	65.53	m i ke	BGR
OrigID 10708015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	10708015
Ms	4.5		BGR	10708015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	64.76		P	13:34:06.101		68.8		6.70		TAS		36.6	1.53	m_e	mb 5.4
BRG	60.44		P	13:33:37.381		68.8		6.70		TAS		54.2	1.68	m_e	mb 5.3
BSEG	61.52		P	13:33:44.786	0.3	68.8		6.70		TAS		16.4	0.99	m_e	mb 5.2
CLL	60.86		P	13:33:40.109	0.6	68.8		6.70		TAS		70.1	2.00	m_e	mb 5.1
CLZ	62.21		P	13:33:49.607	-0.2	68.8		6.70		TAS		16.0	0.84	m_e	mb 5.3
FLT1	61.55		P	13:33:44.006	-0.2	68.8		6.70		TAS		28.8	1.53	m_e	mb 5.3
GEC2	61.27		P	13:33:43.422		68.8		6.70		TAS		22.3	1.48	m_e	mb 4.8
GRA1	62.49		L	14:01:51.569						T__		258.3	21.10	a_e	Ms 4.4
MOX	61.91		P	13:33:47.514		68.8		6.70		TAS		30.1	1.48	m_e	mb 5.3
MOX	61.91		L	14:05:12.312						T__		364.1	18.30	a_e	Ms 4.6
PLN	61.64		P	13:33:45.468		68.8		6.70		TAS		28.2	2.20	m_e	mb 5.1
RETH	62.48		P	13:33:51.313	0.2	68.8		6.70		TAS		53.4	1.86	m_e	mb 5.4
TNS	63.94		P	13:34:01.057		68.8		6.70		TAS		16.1	1.24	m_e	mb 5.1
WET	61.67		P	13:33:46.442		68.8		6.70		TAS		286.8	3.46	m_e	mb 5.9
WLF	65.53		P	13:34:11.888		68.8		6.70		TAS				m_e	

Event 10708010 Northern California, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/08	22:49:57.67			39.4600	-120.1560				33.0			12		77.58	82.59	m i ke	BGR
OrigID 10708016																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	10708016
MBB	6.1		BGR	10708016
Ms	5.8		BGR	10708016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	79.04		P	23:01:57.332		324.1		5.31		TAS		188.3	1.83	m_e	MBB 6.1
BRG	81.36		P	23:02:09.873		324.1		5.31		TAS		56.6	1.23	m_e	MBB 6.1
BSEG	77.58		P	23:01:49.829	-0.0	324.1		5.31		TAS		539.8	2.64	m_e	MBB 6.3
FUR	82.59		P	23:02:16.518		324.1		5.31		TAS		330.6	1.66	m_e	MBB 6.6

./bul2107.txt

Wed Jan 11 09:16:11 2023

11

GRA1	81.33	P	23:02:10.087		324.1	5.31	TAS	79.1	1.28	m_e	MBB	6.3
GRA1	81.33	L	23:38:04.607				T__	5012.7	19.50	m_e	Ms	5.9
IBBN	77.92	P	23:01:51.544	-0.1	324.1	5.31	TAS	241.1	1.69	m_e	MBB	6.3
KAST	79.04	P	23:01:57.332		324.1	5.31	TAS	94.1	1.55	m_e	MBB	6.0
MOX	80.70	P	23:02:06.228		324.1	5.31	TAS	82.1	1.55	m_e	MBB	6.0
MOX	80.70	L	23:37:31.738				T__	3872.8	20.60	a_e	Ms	5.7
PLN	81.03	P	23:02:07.729		324.1	5.31	TAS	328.2	3.76	m_e	MBB	5.6
RETH	78.19	P	23:01:53.259	0.0	324.1	5.31	TAS	1245.7	3.13	m_e	MBB	6.4
TANN	81.20	P	23:02:08.908		324.1	5.31	TAS	65.7	1.59	m_e	MBB	6.0
WLF	79.34	P	23:01:59.154		324.1	5.31	TAS	156.1	1.42	m_e	MBB	6.1

Event 10709001 Pacific-Antarctic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	01:21:28.80			-56.2300	-143.2200				33.0					163.34	163.34	m i ke	NEIC
10709040																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	163.34		PP	01:46:06.581		237.1		1.66		TAS					m_e

Event 10709005 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	09:47:30.70			-15.9900	-173.1400				10.0					146.11	146.11	m i ke	NEIC
10709044																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.11		PKP	10:07:12.746		7.6		1.76		TAS					m_e

Event 10709006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	12:23:43.30			-15.9800	-177.6700				434.0					145.52	145.52	m i ke	NEIC
10709045																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.52		PKP	12:42:32.329		15.3		2.27		TAS				m_e	

Event 10709007 Minahassa Peninsula, Sulawesi, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	13:31:09.50		0.1500	123.6400					120.0			17		101.87	107.33	m i ke	NEIC
OrigID 10709046																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	106.45		SKS	13:55:34.584		73.8		4.95		TAS				m_e	
AHRW	106.45		Pdiff	13:45:08.666		73.2		4.65		TAS				m_e	
AHRW	106.45		PP	13:49:33.426		73.1		7.52		TAS				m_e	
ASSE	103.79		SKS	13:55:21.722		73.8		4.95		TAS				m_e	
ASSE	103.79		Pdiff	13:44:56.064	0.1	73.2		4.65		TAS				m_e	
ASSE	103.79		PP	13:49:14.115	-0.3	73.1		7.52		TAS				m_e	
BRG	102.21		SKS	13:55:13.185	-0.4	73.8		4.95		TAS				m_e	
BRG	102.21		Pdiff	13:44:49.019	-0.2	73.2		4.65		TAS				a_e	
BRG	102.21		PP	13:49:02.016	-1.2	73.1		7.52		TAS				m_e	
BSEG	103.40		SKS	13:55:20.843		73.8		4.95		TAS				m_e	
BSEG	103.40		Pdiff	13:44:55.019	-0.1	73.2		4.65		TAS				a_e	
BSEG	103.40		PP	13:49:12.253	1.9	73.1		7.52		TAS				m_e	
BUG	106.01		SKS	13:55:32.046		73.8		4.95		TAS				m_e	
BUG	106.01		PP	13:49:31.332		73.1		7.52		TAS				m_e	
CLL	102.66		Pdiff	13:44:50.769	0.1	73.2		4.65		TAS				a_e	
CLZ	104.06		SKS	13:55:23.819		73.8		4.95		TAS				m_e	
CLZ	104.06		Pdiff	13:44:57.719	-0.1	73.2		4.65		TAS				a_e	
FLT1	103.40		SKS	13:55:19.653		73.8		4.95		TAS				m_e	
FLT1	103.40		Pdiff	13:44:53.919	-0.1	73.2		4.65		TAS				a_e	
FUR	104.65		SKS	13:55:25.112		73.8		4.95		TAS				m_e	
FUR	104.65		PP	13:49:19.931		73.1		7.52		TAS				m_e	
GEC2	102.91		SKS	13:55:17.712	-0.3	73.8		4.95		TAS				m_e	
GEC2	102.91		Pdiff	13:44:52.019	0.4	73.2		4.65		TAS				a_e	
GEC2	102.91		PP	13:49:05.738	0.6	73.1		7.52		TAS				m_e	
GOR1	103.15		Pdiff	13:44:53.844	-0.1	73.2		4.65		TAS				m_e	
GOR1	103.15		PP	13:49:07.367	0.7	73.1		7.52		TAS				m_e	
GRA1	104.22		SKS	13:55:24.077		73.8		4.95		TAS				m_e	
GRA1	104.22		Pdiff	13:44:57.976	-0.2	73.2		4.65		TAS				m_e	
GRA1	104.22		PP	13:49:17.833	0.5	73.1		7.52		TAS				m_e	
GTTG	104.39		SKS	13:55:25.112		73.8		4.95		TAS				m_e	
GTTG	104.39		Pdiff	13:44:59.119	-0.1	73.2		4.65		TAS				a_e	
GTTG	104.39		PP	13:49:20.397	0.4	73.1		7.52		TAS				m_e	
IBBN	105.41		Pdiff	13:45:04.128	0.5	73.2		4.65		TAS				m_e	

IBBN	105.41	PP	13:49:25.614		73.1	7.52	TAS	m_e
KAST	105.42	Pdiff	13:45:03.761	0.0	73.2	4.65	TAS	m_e
KAST	105.42	PP	13:49:25.981		73.1	7.52	TAS	m_e
MOX	103.69	Pdiff	13:44:55.619	-0.3	73.2	4.65	TAS	a_e
MOX	103.69	PP	13:49:12.021	-0.8	73.1	7.52	TAS	m_e
NEUB	103.43	Pdiff	13:44:54.419	0.2	73.2	4.65	TAS	a_e
PLN	103.41	SKS	13:55:19.135		73.8	4.95	TAS	m_e
PLN	103.41	Pdiff	13:44:54.369	-0.6	73.2	4.65	TAS	a_e
PLN	103.41	PP	13:49:11.598	0.9	73.1	7.52	TAS	m_e
RETH	104.34	Pdiff	13:44:58.875	0.0	73.2	4.65	TAS	m_e
RUE	101.87	SKS	13:55:10.880	-0.7	73.8	4.95	TAS	m_e
RUE	101.87	Pdiff	13:44:47.769	0.2	73.2	4.65	TAS	a_e
RUE	101.87	PP	13:49:00.154	0.1	73.1	7.52	TAS	m_e
STU	105.77	SKS	13:55:29.900		73.8	4.95	TAS	m_e
TANN	103.24	SKS	13:55:17.996	-0.7	73.8	4.95	TAS	m_e
TANN	103.24	Pdiff	13:44:53.569	0.2	73.2	4.65	TAS	m_e
TNS	105.74	SKS	13:55:31.942		73.8	4.95	TAS	m_e
TNS	105.74	Pdiff	13:45:05.069		73.2	4.65	TAS	a_e
TNS	105.74	PP	13:49:28.075		73.1	7.52	TAS	m_e
WET	103.35	SKS	13:55:19.807		73.8	4.95	TAS	m_e
WET	103.35	Pdiff	13:44:54.219	-0.0	73.2	4.65	TAS	a_e
WET	103.35	PP	13:49:10.857	-1.0	73.1	7.52	TAS	m_e
WLF	107.33	Pdiff	13:45:13.113		73.2	4.65	TAS	m_e
WLF	107.33	PP	13:49:40.845		73.1	7.52	TAS	m_e

Event 10709008 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	15:41:08.28			35.0660	46.2920				33.0					29.42	29.42	m i ke	BGR
10709014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	10709014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	29.42		P	15:47:08.709		110.7		9.53		TAS		19.9	0.97	m_e mb	4.9

Event 10709009 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	19:58:29.00			-25.7000	-176.9500				33.0					155.15	155.15	m i ke	NEIC
10709048																	

Magnitude	Err	Nsta	Author	OrigID											
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	155.15		PKP	20:18:35.545		17.8		3.87		TAS					m_e

Event 10709010 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/09	20:23:48.86			37.5500	143.6100				33.0			26		80.19	85.59	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	10709016
Ms	5.0		BGR	10709016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	84.20		P	20:36:17.963		36.1		5.19		TAS		67.8	1.24	a_e mb	5.7
ASSE	81.61		P	20:36:04.463	-0.3	36.1		5.19		TAS		35.9	1.11	a_e mb	5.3
BFO	85.59		S	20:46:54.153		36.8		9.59		TAS				m_e	
BFO	85.59		P	20:36:24.727		36.1		5.19		TAS		68.9	1.16	m_e mb	5.8
BRG	81.39		S	20:46:12.785	2.5	36.8		5.59		TAS				m_e	
BRG	81.39		P	20:36:03.213	-0.1	36.1		5.19		TAS		38.9	1.24	m_e mb	5.3
BSEG	80.27		S	20:46:03.287	0.5	36.8		9.59		TAS				m_e	
BSEG	80.27		P	20:35:57.513	0.4	36.1		5.19		TAS		55.9	1.06	a_e mb	5.4
BUG	83.38		S	20:46:35.182		36.8		9.59		TAS				m_e	
BUG	83.38		P	20:36:13.313		36.1		5.19		TAS		42.7	1.18	a_e mb	5.6
CLL	81.41		P	20:36:03.013	0.0	36.1		5.19		TAS		60.9	1.05	a_e mb	5.6
CLZ	81.95		S	20:46:20.575		36.8		9.59		TAS				m_e	
CLZ	81.95		P	20:36:06.563		36.1		5.19		TAS		74.3	1.18	a_e mb	5.7
FLT1	81.24		S	20:46:12.908	1.5	36.8		9.59		TAS				m_e	
FLT1	81.24		P	20:36:02.013	0.0	36.1		5.19		TAS		59.4	1.00	a_e mb	5.6
FUR	84.59		S	20:46:47.058		36.8		9.59		TAS				m_e	
FUR	84.59		P	20:36:19.913		36.1		5.19		TAS		55.1	1.04	a_e mb	5.7
GEC2	83.08		S	20:46:29.595		36.8		9.59		TAS				m_e	
GEC2	83.08		P	20:36:11.913		36.1		5.19		TAS		31.2	1.35	a_e mb	5.4
GOR1	80.69		P	20:35:59.963	-0.0	36.1		5.19		TAS		105.0	1.29	a_e mb	5.7
GRA1	83.38		S	20:46:34.556		36.8		9.59		TAS				m_e	
GRA1	83.38		P	20:36:14.163		36.1		5.19		TAS		131.3	1.42	a_e mb	6.0
GRA1	83.38		L	21:17:05.119						T__		608.3	18.70	a_e Ms	5.0
GTTG	82.34		S	20:46:23.761		36.8		9.59		TAS				m_e	
GTTG	82.34		P	20:36:08.313		36.1		5.19		TAS		57.2	1.18	a_e mb	5.6
IBBN	82.49		S	20:46:24.634		36.8		9.59		TAS				m_e	
IBBN	82.49		P	20:36:08.963		36.1		5.19		TAS		61.2	0.98	a_e mb	5.7
KAST	83.18		S	20:46:29.895		36.8		9.59		TAS				m_e	
KAST	83.18		P	20:36:12.463		36.1		5.19		TAS		36.4	1.41	a_e mb	5.4
MOX	82.46		S	20:46:24.513		36.8		9.59		TAS				m_e	

MOX	82.46	P	20:36:08.913	36.1	5.19	TAS	36.1	1.23	a_e	mb	5.4	
MOX	82.46	L	21:19:35.920			T__	740.1	18.00	a_e	Ms	5.1	
NEUB	81.96	P	20:36:06.163	36.1	5.19	TAS	82.3	1.14	a_e	mb	5.8	
PLN	82.38	P	20:36:08.563	36.1	5.19	TAS	8.2	1.16	a_e	mb	4.8	
RETH	81.58	P	20:36:04.363	-0.0	36.1	5.19	TAS	60.7	1.23	a_e	mb	5.5
RUE	80.19	S	20:46:02.536	-1.0	36.8	9.59	TAS			m_e		
RUE	80.19	P	20:35:57.063	-0.1	36.1	5.19	TAS	118.0	1.35	a_e	mb	5.6
STU	84.90	P	20:36:21.263	36.1	5.19	TAS	105.0	0.93	a_e	mb	6.0	
TANN	82.32	S	20:46:21.176	36.8	9.59	TAS			m_e			
TANN	82.32	P	20:36:08.263	36.1	5.19	TAS	23.0	1.36	a_e	mb	5.1	
TNS	83.98	S	20:46:40.744	36.8	9.59	TAS			m_e			
TNS	83.98	P	20:36:16.713	36.1	5.19	TAS	45.2	1.38	a_e	mb	5.5	
WET	83.17	S	20:46:29.470	36.8	9.59	TAS			m_e			
WET	83.17	P	20:36:12.863	36.1	5.19	TAS	41.0	1.32	a_e	mb	5.5	
WLF	85.26	S	20:46:48.110	36.8	9.59	TAS			m_e			
WLF	85.26	P	20:36:23.563	36.1	5.19	TAS	100.7	1.48	a_e	mb	5.8	

Event 10710001 Northern Molucca Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	00:43:56.10			2.9400	126.5000				45.0			24		100.79	106.79	m i ke	NEIC
OrigID 10710040																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.7		BGR	10710007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	105.87		SKS	01:08:39.310		71.0		4.55		TAS				m_e	
AHRW	105.87		Pdiff	00:58:02.991	0.3	69.0		4.53		TAS				a_e	
ASSE	103.17		SKS	01:08:27.733		71.0		4.55		TAS				m_e	
ASSE	103.17		Pdiff	00:57:50.691	0.0	69.0		4.53		TAS				a_e	
ASSE	103.17		PP	01:02:01.005	2.2	66.6		7.27		TAS				m_e	
BFO	106.05		SKS	01:08:37.665		71.0		4.55		TAS				m_e	
BFO	106.05		Pdiff	00:58:02.941		69.0		4.53		TAS				a_e	
BFO	106.05		PP	01:02:24.302		66.6		7.27		TAS				m_e	
BRG	101.72		SKS	01:08:18.518	0.4	71.0		4.55		TAS				m_e	
BRG	101.72		Pdiff	00:57:43.991	-0.3	69.0		4.53		TAS				a_e	
BRG	101.72		PP	01:01:50.651	1.3	66.6		7.27		TAS				m_e	
BSEG	102.65		SKS	01:08:25.100	0.5	71.0		4.55		TAS				m_e	
BSEG	102.65		Pdiff	00:57:48.441	-0.0	69.0		4.53		TAS				a_e	
BSEG	102.65		PP	01:01:57.122	-0.9	66.6		7.27		TAS				m_e	
BUG	105.37		SKS	01:08:36.019		71.0		4.55		TAS				m_e	
BUG	105.37		Pdiff	00:58:00.541	-0.6	69.0		4.53		TAS				a_e	
BUG	105.37		PP	01:02:20.419		66.6		7.27		TAS				m_e	
CLL	102.12		Pdiff	00:57:45.491	0.2	69.0		4.53		TAS				a_e	
CLL	102.12		PP	01:01:55.828	0.3	66.6		7.27		TAS				m_e	

CLZ	103.45	SKS	01:08:27.733		71.0	4.55	TAS					m_e
CLZ	103.45	Pdiff	00:57:52.241	-0.0	69.0	4.53	TAS					a_e
CLZ	103.45	PP	01:02:01.005	-0.4	66.6	7.27	TAS					m_e
FLT1	102.77	SKS	01:08:23.784	0.9	71.0	4.55	TAS					m_e
FLT1	102.77	Pdiff	00:57:48.391	-0.1	69.0	4.53	TAS					a_e
FLT1	102.77	PP	01:01:58.417	1.0	66.6	7.27	TAS					m_e
FUR	104.30	SKS	01:08:31.024		71.0	4.55	TAS					m_e
FUR	104.30	Pdiff	00:57:55.491	0.1	69.0	4.53	TAS					a_e
GEC2	102.55	SKS	01:08:23.125	0.0	71.0	4.55	TAS					m_e
GEC2	102.55	Pdiff	00:57:47.641	-0.1	69.0	4.53	TAS					a_e
GEC2	102.55	PP	01:01:58.417	-0.8	66.6	7.27	TAS					m_e
GOR1	102.48	Pdiff	00:57:47.791	0.0	69.0	4.53	TAS					a_e
GOR1	102.48	PP	01:01:57.122	0.3	66.6	7.27	TAS					m_e
GRA1	103.77	SKS	01:08:28.391		71.0	4.55	TAS					m_e
GRA1	103.77	Pdiff	00:57:53.541	0.1	69.0	4.53	TAS					a_e
GRA1	103.77	PP	01:02:06.182	-1.6	66.6	7.27	TAS					m_e
GRA1	103.77	L	01:51:30.918				T__	2075.7	21.50	a_e Ms	5.6	
GTTG	103.80	SKS	01:08:27.733		71.0	4.55	TAS					m_e
GTTG	103.80	Pdiff	00:57:53.591	-0.1	69.0	4.53	TAS					a_e
GTTG	103.80	PP	01:02:08.771	0.9	66.6	7.27	TAS					m_e
HLG	103.85	SKS	01:08:30.695		71.0	4.55	TAS					m_e
HLG	103.85	Pdiff	00:57:53.939	-1.6	69.0	4.53	TAS					m_e
IBBN	104.73	SKS	01:08:32.670		71.0	4.55	TAS					m_e
IBBN	104.73	Pdiff	00:57:57.841	0.1	69.0	4.53	TAS					a_e
KAST	104.82	SKS	01:08:33.657		71.0	4.55	TAS					m_e
KAST	104.82	Pdiff	00:57:58.291	-0.1	69.0	4.53	TAS					a_e
KAST	104.82	PP	01:02:12.654		66.6	7.27	TAS					m_e
MOX	103.18	SKS	01:08:25.758		71.0	4.55	TAS					m_e
MOX	103.18	Pdiff	00:57:50.591	0.3	69.0	4.53	TAS					a_e
MOX	103.18	L	01:50:54.698				T__	3114.7	20.40	a_e Ms	5.8	
NEUB	102.89	SKS	01:08:25.100		71.0	4.55	TAS					m_e
NEUB	102.89	Pdiff	00:57:49.141	0.0	69.0	4.53	TAS					a_e
NEUB	102.89	PP	01:02:01.005	0.6	66.6	7.27	TAS					m_e
PLN	102.92	SKS	01:08:24.771		71.0	4.55	TAS					m_e
PLN	102.92	Pdiff	00:57:49.391	0.3	69.0	4.53	TAS					a_e
PLN	102.92	PP	01:02:01.005	-0.9	66.6	7.27	TAS					m_e
RETH	103.66	Pdiff	00:57:52.991	0.3	69.0	4.53	TAS					a_e
RGN	100.79	Pdiff	00:57:40.393	-1.6	69.0	4.53	TAS					m_e
RUE	101.27	SKS	01:08:15.884	0.7	71.0	4.55	TAS					m_e
RUE	101.27	Pdiff	00:57:42.091	0.1	69.0	4.53	TAS					a_e
RUE	101.27	PP	01:01:49.357	-1.0	66.6	7.27	TAS					m_e
STU	105.35	SKS	01:08:33.987		71.0	4.55	TAS					m_e
STU	105.35	Pdiff	00:58:00.241	0.1	69.0	4.53	TAS					a_e
STU	105.35	PP	01:02:16.537		66.6	7.27	TAS					m_e
TANN	102.76	SKS	01:08:23.784	0.4	71.0	4.55	TAS					m_e
TANN	102.76	Pdiff	00:57:48.641	-0.5	69.0	4.53	TAS					a_e
TANN	102.76	PP	01:01:58.417	-0.6	66.6	7.27	TAS					m_e
TNS	105.21	SKS	01:08:35.632		71.0	4.55	TAS					m_e
TNS	105.21	Pdiff	00:57:59.941	-0.2	69.0	4.53	TAS					a_e

TNS	105.21	PP	01:02:16.537	66.6	7.27	TAS	m_e	
WET	102.96	SKS	01:08:26.087	71.0	4.55	TAS	m_e	
WET	102.96	Pdiff	00:57:49.741	0.0	69.0	4.53	TAS	m_e
WLF	106.79	SKS	01:08:42.931	71.0	4.55	TAS	m_e	
WLF	106.79	Pdiff	00:58:07.341	69.0	4.53	TAS	a_e	

Event 10710002 Northern Molucca Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	00:51:04.60			2.9700	126.5500				12.0					103.78	103.78	m i ke	NEIC
OrigID 10710041																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	103.78		Pdiff	01:05:27.932						T__					m_e

Event 10710003 Tajikistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	02:14:45.36			39.0400	70.7000				33.0				28	40.84	46.00	m i ke	BGR
OrigID 10710009																	

Magnitude Err Nsta Author OrigID

mb	5.8		BGR	10710009
Ms	6.0		BGR	10710009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	45.24		P	02:23:00.542	-0.3	82.7		8.08		TAS		197.0	1.02	a_e mb	6.1
AHRW	45.24		PP	02:24:48.641		82.7		10.94		TAS				m_e	
ASSE	42.77		S	02:29:05.106		82.1		13.78		TAS				m_e	
ASSE	42.77		P	02:22:40.142	-0.7	82.7		8.08		TAS		70.2	1.18	a_e mb	5.3
ASSE	42.77		PP	02:24:21.418	1.3	82.7		10.94		TAS				m_e	
BFO	44.88		S	02:29:33.721		82.1		13.78		TAS				m_e	
BFO	44.88		P	02:22:57.192	-0.2	82.7		8.08		TAS		196.0	1.01	a_e mb	6.0
BRG	40.88		S	02:28:38.219	0.4	82.1		13.78		TAS				m_e	
BRG	40.88		P	02:22:25.192	-0.3	82.7		8.08		TAS		272.2	1.02	m_e mb	5.9
BRG	40.88		PP	02:23:58.849	-2.4	82.7		10.94		TAS				m_e	
BSEG	42.79		S	02:29:04.313		82.1		13.78		TAS				m_e	
BSEG	42.79		P	02:22:41.042	0.5	82.7		8.08		TAS		167.7	0.95	a_e mb	5.8
BSEG	42.79		PP	02:24:22.814	0.8	82.7		10.94		TAS				m_e	
BUG	44.96		S	02:29:34.910		82.1		13.78		TAS				m_e	
BUG	44.96		P	02:22:58.192	-0.3	82.7		8.08		TAS		164.4	1.01	a_e mb	6.0

BUG	44.96	PP	02:24:45.848		82.7	10.94	TAS				m_e	
CLL	41.42	S	02:28:44.624	1.5	82.1	13.78	TAS				m_e	
CLL	41.42	P	02:22:29.092	-0.9	82.7	8.08	TAS	131.2	1.01	a_e	mb	5.6
CLL	41.42	PP	02:24:06.294	-1.0	82.7	10.94	TAS				m_e	
CLZ	42.98	S	02:29:05.503		82.1	13.78	TAS				m_e	
CLZ	42.98	P	02:22:45.292	2.7	82.7	8.08	TAS	88.1	0.96	a_e	mb	5.5
CLZ	42.98	PP	02:24:25.141	0.0	82.7	10.94	TAS				m_e	
FLT1	42.40	S	02:28:57.706		82.1	13.78	TAS				m_e	
FLT1	42.40	P	02:22:36.942	-0.9	82.7	8.08	TAS	267.5	0.97	a_e	mb	5.9
FLT1	42.40	PP	02:24:18.626	0.7	82.7	10.94	TAS				m_e	
FUR	42.99	P	02:22:42.592	0.7	82.7	8.08	TAS	295.5	1.06	a_e	mb	6.0
GEC2	41.29	S	02:28:44.360	-0.0	82.1	13.78	TAS				m_e	
GEC2	41.29	P	02:22:28.792	0.5	82.7	8.08	TAS	127.0	1.10	a_e	mb	5.6
GEC2	41.29	PP	02:24:06.527	1.5	82.7	10.94	TAS				m_e	
GOR1	42.29	P	02:22:36.942	0.2	82.7	8.08	TAS	243.6	1.12	a_e	mb	5.8
GOR1	42.29	PP	02:24:15.601	-0.9	82.7	10.94	TAS				m_e	
GRA1	42.76	S	02:29:04.710		82.1	13.78	TAS				m_e	
GRA1	42.76	P	02:22:41.342	0.8	82.7	8.08	TAS	334.9	1.02	a_e	mb	6.0
GRA1	42.76	L	02:42:54.009				T__	20425.7	19.20	a_e	Ms	6.0
GTTG	43.28	S	02:29:05.635		82.1	13.78	TAS				m_e	
GTTG	43.28	P	02:22:44.942	-0.0	82.7	8.08	TAS	385.3	0.99	a_e	mb	6.1
HLG	44.19	S	02:29:23.210		82.1	13.78	TAS				m_e	
HLG	44.19	P	02:22:52.292	0.6	82.7	8.08	TAS	331.0	0.98	a_e	mb	6.2
IBBN	44.52	S	02:29:27.510		82.1	13.78	TAS				m_e	
IBBN	44.52	P	02:22:54.742	-0.2	82.7	8.08	TAS	396.9	1.13	a_e	mb	6.2
IBBN	44.52	PP	02:24:43.056		82.7	10.94	TAS				m_e	
KAST	44.29	S	02:29:25.853		82.1	13.78	TAS				m_e	
KAST	44.29	P	02:22:52.305	-0.8	82.7	8.08	TAS	106.7	1.63	m_e	mb	5.5
MOX	42.37	S	02:28:58.367		82.1	13.78	TAS				m_e	
MOX	42.37	P	02:22:37.342	-0.2	82.7	8.08	TAS	127.9	0.99	a_e	mb	5.6
MOX	42.37	PP	02:24:19.091	1.5	82.7	10.94	TAS				m_e	
MOX	42.37	L	02:42:29.473				T__	16711.0	20.10	a_e	Ms	5.9
NEUB	42.20	S	02:28:55.063		82.1	13.78	TAS				m_e	
NEUB	42.20	P	02:22:35.742	-0.5	82.7	8.08	TAS	217.4	0.97	a_e	mb	5.8
NEUB	42.20	PP	02:24:15.834	0.0	82.7	10.94	TAS				m_e	
PLN	42.05	S	02:28:53.478	1.2	82.1	13.78	TAS				m_e	
PLN	42.05	P	02:22:34.742	-0.2	82.7	8.08	TAS	31.0	0.99	a_e	mb	5.0
PLN	42.05	PP	02:24:14.438	0.4	82.7	10.94	TAS				m_e	
RETH	43.49	P	02:22:46.542	0.0	82.7	8.08	TAS	103.6	1.15	a_e	mb	5.5
RGN	40.99	S	02:28:38.810	0.7	82.1	13.78	TAS				m_e	
RGN	40.99	P	02:22:26.242	0.5	82.7	8.08	TAS	649.1	0.98	a_e	mb	6.3
RGN	40.99	PP	02:24:01.408	-0.2	82.7	10.94	TAS				m_e	
RUE	40.84	S	02:28:34.185	1.5	82.1	13.78	TAS				m_e	
RUE	40.84	P	02:22:24.242	-0.9	82.7	8.08	TAS	103.9	0.93	a_e	mb	5.5
RUE	40.84	PP	02:23:58.616	-2.1	82.7	10.94	TAS				m_e	
STU	44.23	S	02:29:21.624		82.1	13.78	TAS				m_e	
STU	44.23	P	02:22:52.442	0.2	82.7	8.08	TAS	407.7	1.03	a_e	mb	6.3
STU	44.23	PP	02:24:35.378	-0.4	82.7	10.94	TAS				m_e	
TANN	41.87	S	02:28:52.156	1.1	82.1	13.78	TAS				m_e	

TANN	41.87	P	02:22:33.392	-0.1	82.7	8.08	TAS	97.7	1.03	a_e mb	5.5
TANN	41.87	PP	02:24:13.042	1.0	82.7	10.94	TAS			m_e	
TNS	44.43	S	02:29:27.510		82.1	13.78	TAS			m_e	
TNS	44.43	P	02:22:54.042	-0.2	82.7	8.08	TAS	96.8	0.88	a_e mb	5.7
TNS	44.43	PP	02:24:40.264		82.7	10.94	TAS			m_e	
WET	41.78	S	02:28:51.496	-5.2	82.1	13.78	TAS			m_e	
WET	41.78	P	02:22:32.692	0.3	82.7	8.08	TAS	154.9	1.08	a_e mb	5.7
WET	41.78	PP	02:24:12.576	1.9	82.7	10.94	TAS			m_e	
WLF	46.00	S	02:29:47.596		82.1	13.78	TAS			m_e	
WLF	46.00	P	02:23:06.742	-0.1	82.7	8.08	TAS	274.3	0.92	a_e mb	6.4
WLF	46.00	PP	02:24:56.086		82.7	10.94	TAS			m_e	

Event 10710004 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	02:41:04.94			1.3450	98.5080				33.0					87.24	87.24	m i ke	BGR
OrigID 10710010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	10710010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	87.24		P	02:53:48.339		109.6		4.22		TAS		16.5	0.88	m_e mb	5.2

Event 10710005 Tajikistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	05:48:07.88			39.7070	71.8420				33.0					43.12	43.12	m i ke	BGR
OrigID 10710011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.1		BGR	10710011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	43.12		P	05:56:04.405		88.4		6.76		TAS		4.3	1.04	m_e mb	4.1

Event 10710006 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	12:03:24.57			-20.0950	170.2990				33.0				19	143.88	148.24	m i ke	BGR
OrigID																	

10710012

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	146.78		PKPbc	12:23:03.781		36.9		3.06		TAS					m_e	
BFO	148.24		PKPbc	12:23:05.821		36.9		3.06		TAS					m_e	
BUG	145.93		PKPbc	12:22:59.141		36.9		3.06		TAS					m_e	
CLL	144.06		PKPbc	12:22:53.636	0.1	36.9		3.06		TAS					m_e	
CLZ	144.58		PKPbc	12:22:56.234	-0.1	36.9		3.06		TAS					m_e	
FLT1	143.88		PKPbc	12:22:53.294	0.1	36.9		3.06		TAS					m_e	
FUR	147.23		PKPbc	12:23:04.536		36.9		3.06		TAS					m_e	
GEC2	145.68		PKPbc	12:22:58.823	-0.1	36.9		3.06		TAS					m_e	
GRA1	146.04		PKPbc	12:23:00.546		36.9		3.06		TAS					m_e	
GTTG	144.97		PKPbc	12:22:57.633	1.0	36.9		3.06		TAS					m_e	
IBBN	145.03		PKPbc	12:22:57.423	-1.1	36.9		3.06		TAS					m_e	
MOX	145.12		PKPbc	12:22:57.563	0.7	36.9		3.06		TAS					m_e	
NEUB	144.62		PKPbc	12:22:56.024	-0.2	36.9		3.06		TAS					m_e	
PLN	145.04		PKPbc	12:22:57.213	-1.1	36.9		3.06		TAS					m_e	
RETH	144.16		PKPbc	12:22:54.694	-0.3	36.9		3.06		TAS					m_e	
STU	147.56		PKPbc	12:23:04.792		36.9		3.06		TAS					m_e	
TANN	144.98		PKPbc	12:22:57.073	0.4	36.9		3.06		TAS					m_e	
WET	145.80		PKPbc	12:22:59.255	0.3	36.9		3.06		TAS					m_e	
WLF	147.83		PKPbc	12:23:06.327		36.9		3.06		TAS					m_e	

Event 10710007 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	14:39:57.54			-21.8480	172.4010				96.2	7.2		24		145.13	150.60	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	
AHRW	149.06		PKPbc	14:59:34.779	-0.7	34.9		2.72		TAS					m_e	
ASSE	146.57		PKPbc	14:59:27.974	-0.3	34.9		2.72		TAS					a_e	
ASSE	146.57		pPKPbc	14:59:54.458						T__					m_e	
BFO	150.60		PKPbc	14:59:37.924		34.9		2.72		TAS					a_e	
BRG	146.44		PKPbc	14:59:27.324	-0.3	34.9		2.72		TAS					m_e	
BSEG	145.13		PKPbc	14:59:23.579	-0.3	34.9		2.72		TAS					m_e	
BSEG	145.13		pPKPbc	14:59:48.125	-0.4					T__					m_e	
CLL	146.45		PKPbc	14:59:27.124	0.2	34.9		2.72		TAS					a_e	
CLL	146.45		pPKPbc	14:59:54.080						T__					m_e	
CLZ	146.91		PKPbc	14:59:28.748	-0.0	34.9		2.72		TAS					m_e	
FLT1	146.22		PKPbc	14:59:26.524	-0.1	34.9		2.72		TAS					a_e	
FLT1	146.22		pPKPbc	14:59:52.831						T__					m_e	

FUR	149.65	PKPbc	14:59:35.823		34.9	2.72	TAS	m_e
GEC2	148.13	PKPbc	14:59:31.924	0.2	34.9	2.72	TAS	a_e
GOR1	145.64	PKPbc	14:59:25.474	0.1	34.9	2.72	TAS	a_e
GTTG	147.30	PKPbc	14:59:30.124	0.3	34.9	2.72	TAS	a_e
GTTG	147.30	pPKPbc	14:59:56.715				T__	m_e
IBBN	147.30	PKPbc	14:59:29.967	0.3	34.9	2.72	TAS	m_e
KAST	148.08	PKPbc	14:59:32.224	0.2	34.9	2.72	TAS	a_e
MOX	147.50	PKPbc	14:59:30.274	-0.0	34.9	2.72	TAS	a_e
NEUB	146.99	PKPbc	14:59:28.469	0.4	34.9	2.72	TAS	m_e
PLN	147.43	PKPbc	14:59:30.224	0.3	34.9	2.72	TAS	a_e
PLN	147.43	pPKPbc	14:59:57.060				T__	m_e
RETH	146.46	PKPbc	14:59:27.288	0.1	34.9	2.72	TAS	m_e
RUE	145.22	PKPbc	14:59:23.618	0.3	34.9	2.72	TAS	m_e
STU	149.93	PKPbc	14:59:36.624		34.9	2.72	TAS	a_e
TANN	147.38	PKPbc	14:59:30.124	0.1	34.9	2.72	TAS	a_e
TNS	148.93	PKPbc	14:59:34.324	0.2	34.9	2.72	TAS	a_e
WET	148.23	PKPbc	14:59:32.374	-0.2	34.9	2.72	TAS	a_e
WLF	150.11	PKPbc	14:59:37.824		34.9	2.72	TAS	a_e

Event 10710008 Afghanistan-Tajikistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	15:22:42.52			38.6220	71.2340				33.0					43.34	43.34	m i ke	BGR
OrigID 10710014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.0		BGR	10710014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	43.34		P	15:30:40.902		88.6		7.01		TAS		3.6	1.01	m_e mb	4.0

Event 10710010 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/10	19:58:06.86			-21.4660	168.9650				24.2	2.1		10		145.37	148.98	m i ke	BGR
OrigID 10710016																	

Magnitude	Err	Nsta	Author	OrigID
-----------	-----	------	--------	--------

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.62		PKPbc	20:17:47.988		40.0		2.95		TAS				m_e	
BFO	148.98		PKPbc	20:17:51.053		40.0		2.95		TAS				m_e	
CLZ	145.37		PKPbc	20:17:40.487		40.0		2.95		TAS				m_e	

CLZ	145.37	pPKPbc	20:17:47.754							T__		m_e
GEC2	146.28	pPKPbc	20:17:50.275							T__		m_e
GRA1	146.74	PKPbc	20:17:44.933	40.0		2.95				TAS		m_e
GTTG	145.76	PKPbc	20:17:41.938	40.0		2.95				TAS		m_e
GTTG	145.76	pPKPbc	20:17:48.909							T__		m_e
KAST	146.60	pPKPbc	20:17:51.859							T__		m_e
MOX	145.84	PKPbc	20:17:41.858	40.0		2.95				TAS		m_e
MOX	145.84	pPKPbc	20:17:48.990							T__		m_e
PLN	145.74	PKPbc	20:17:41.777	40.0		2.95				TAS		m_e
PLN	145.74	pPKPbc	20:17:48.771							T__		m_e
STU	148.28	pPKPbc	20:17:56.960							T__		m_e
TANN	145.66	PKPbc	20:17:41.696	40.0		2.95				TAS		m_e
TNS	147.40	PKPbc	20:17:46.858	40.0		2.95				TAS		m_e
WET	146.43	pPKPbc	20:17:51.043							T__		m_e
WLF	148.68	PKPbc	20:17:50.649	40.0		2.95				TAS		m_e
WLF	148.68	pPKPbc	20:17:58.546							T__		m_e

Event 10711001 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/11	00:00:16.70			38.3300	23.3100				5.0					14.28	14.28	m i ke	NOA
OrigID 10711070																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	14.28		P	00:03:47.837		138.1		11.90		TAS		4.5	0.88	m_e	

Event 10711002 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/11	00:08:12.03			52.8450	175.9670				33.0				25	72.79	78.52	m i ke	BGR
OrigID 10711008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	76.43		P	00:19:57.060	-0.1	9.4		5.65		TAS		38.2	1.40	a_e mb	5.3
ASSE	74.54		P	00:19:46.410	-0.3	9.4		5.65		TAS		55.3	1.73	a_e mb	5.3
BFO	78.52		P	00:20:08.310		9.4		5.65		TAS		21.3	1.34	a_e mb	5.0
BRG	75.42		P	00:19:51.110	0.2	9.4		5.65		TAS		38.4	2.08	a_e mb	5.2
BSEG	72.79		P	00:19:36.410	-0.2	9.4		5.65		TAS		33.2	1.35	a_e mb	5.3

BUG	75.52	P	00:19:51.510	-0.2	9.4	5.65	TAS	17.1	0.78	a_e	mb	5.2
CLL	75.10	P	00:19:49.160	-0.1	9.4	5.65	TAS	25.7	1.72	a_e	mb	5.0
CLZ	74.85	P	00:19:48.360	-0.3	9.4	5.65	TAS	51.1	1.63	m_e	mb	5.3
FLT1	74.29	P	00:19:44.360	0.2	9.4	5.65	TAS	14.6	1.25	a_e	mb	4.9
FUR	78.39	P	00:20:08.010		9.4	5.65	TAS	40.3	1.44	a_e	mb	5.2
GEC2	77.44	P	00:20:02.810	-0.1	9.4	5.65	TAS	13.5	1.55	a_e	mb	4.8
GOR1	73.63	P	00:19:41.151		9.4	5.65	TAS	57.5	1.56	m_e	mb	5.4
GRA1	76.89	P	00:20:00.010	-0.4	9.4	5.65	TAS	35.3	1.47	a_e	mb	5.3
GTTG	75.19	P	00:19:50.110	0.2	9.4	5.65	TAS	38.1	1.57	a_e	mb	5.2
IBBN	74.62	P	00:19:46.860	0.3	9.4	5.65	TAS	75.9	1.30	a_e	mb	5.6
KAST	75.67	P	00:19:52.810	-0.1	9.4	5.65	TAS	22.9	1.40	a_e	mb	5.1
MOX	75.91	P	00:19:54.010	0.3	9.4	5.65	TAS	11.7	1.29	a_e	mb	4.9
NEUB	75.35	P	00:19:50.710	0.2	9.4	5.65	TAS	32.1	1.50	a_e	mb	5.1
PLN	76.01	P	00:19:54.760	0.2	9.4	5.65	TAS	9.1	1.78	a_e	mb	4.6
RETH	74.06	P	00:19:43.610	-0.5	9.4	5.65	TAS	62.9	1.83	a_e	mb	5.3
RUE	73.87	P	00:19:42.260	0.1	9.4	5.65	TAS			a_e		
STU	78.00	P	00:20:05.460		9.4	5.65	TAS	29.4	1.07	a_e	mb	5.3
TANN	76.04	P	00:19:55.110	0.4	9.4	5.65	TAS	26.8	1.74	a_e	mb	5.1
TNS	76.63	P	00:19:58.060	0.4	9.4	5.65	TAS	24.6	1.37	a_e	mb	5.2
WET	77.25	P	00:20:02.010	-0.5	9.4	5.65	TAS	22.3	1.60	a_e	mb	5.0
WLF	77.37	P	00:20:02.410	0.1	9.4	5.65	TAS	21.6	1.26	a_e	mb	5.1

Event 10711003 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/11	02:11:47.07			52.8280	175.8080				33.0			27		72.76	78.52	m i k e	BGR
OrigID 10711009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	10711009
Ms	4.8		BGR	10711009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	76.43		P	02:23:32.100	0.2	9.5		5.65		TAS		37.7	1.57	m_e	mb	5.3
ASSE	74.54		P	02:23:21.350	0.3	9.5		5.65		TAS		34.6	1.62	a_e	mb	5.1
BFO	78.52		P	02:23:43.400	-0.0	9.5		5.65		TAS		44.8	1.95	a_e	mb	5.2
BRG	75.42		P	02:23:26.100	-0.0	9.5		5.65		TAS		10.6	1.41	a_e	mb	4.8
BSEG	72.79		P	02:23:11.450	0.3	9.5		5.65		TAS		18.0	1.04	a_e	mb	5.1
BUG	75.53		P	02:23:26.662	-0.4	9.5		5.65		TAS				m_e		
CLL	75.10		P	02:23:24.150	0.1	9.5		5.65		TAS		8.7	1.23	a_e	mb	4.7
CLZ	74.86		P	02:23:23.450	0.1	9.5		5.65		TAS		23.9	1.21	a_e	mb	5.1
FLT1	74.29		P	02:23:19.300	-0.0	9.5		5.65		TAS		8.1	1.02	a_e	mb	4.7
FUR	78.39		P	02:23:43.100		9.5		5.65		TAS		20.7	0.96	a_e	mb	5.1
GEC2	77.44		P	02:23:37.900	-0.4	9.5		5.65		TAS		11.7	1.50	a_e	mb	4.8
GOR1	73.63		P	02:23:16.500	0.0	9.5		5.65		TAS		53.9	1.64	a_e	mb	5.3
GRA1	76.89		P	02:23:35.050	0.4	9.5		5.65		TAS		18.3	1.15	a_e	mb	5.1

GRA1	76.89	L	03:00:55.962							T__	490.3	20.50	a_e	Ms	4.8
GTTG	75.19	P	02:23:25.150	-0.2	9.5	5.65				TAS	20.0	1.31	a_e	mb	5.0
HLG	72.76	P	02:23:11.250	0.0	9.5	5.65				TAS	85.2	1.08	a_e	mb	5.8
IBBN	74.63	P	02:23:21.900	-0.6	9.5	5.65				TAS	42.1	1.24	a_e	mb	5.3
KAST	75.67	P	02:23:27.800	-0.2	9.5	5.65				TAS	15.1	1.31	a_e	mb	5.0
MOX	75.91	P	02:23:29.050	0.1	9.5	5.65				TAS	14.4	1.63	a_e	mb	4.8
MOX	75.91	L	03:00:27.037							T__	427.4	20.80	a_e	Ms	4.7
NEUB	75.35	P	02:23:25.700	-0.2	9.5	5.65				TAS	25.4	1.30	a_e	mb	5.1
PLN	76.01	P	02:23:29.800	0.2	9.5	5.65				TAS	35.5	2.69	a_e	mb	5.0
RETH	74.07	P	02:23:18.650	-0.3	9.5	5.65				TAS	23.8	1.37	a_e	mb	5.0
RUE	73.86	P	02:23:17.200	0.1	9.5	5.65				TAS	16.8	1.07	a_e	mb	5.0
STU	78.01	P	02:23:40.550	-0.4	9.5	5.65				TAS	21.0	0.98	a_e	mb	5.2
TANN	76.04	P	02:23:30.050	-0.1	9.5	5.65				TAS	25.3	1.81	a_e	mb	5.0
TNS	76.64	P	02:23:33.100	0.2	9.5	5.65				TAS	18.6	1.42	a_e	mb	5.0
WET	77.24	P	02:23:37.000	0.2	9.5	5.65				TAS	26.4	1.86	a_e	mb	5.0
WLF	77.37	P	02:23:37.450	0.4	9.5	5.65				TAS	30.9	1.44	a_e	mb	5.2

Event 10711004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/11	10:24:29.80			-15.7600	-173.3700				40.0					145.86	145.86	m i ke	EMSC
OrigID 10711036																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.86		PKP	10:44:05.365		7.9		2.84		TAS					m_e

Event 10711007 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/11	17:04:29.22			50.6270	-179.0340				33.0					79.54	79.54	m i ke	BGR
OrigID 10711013																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.54		P	17:16:31.888		8.2		4.73		TAS		3.4	0.95	m_e mb	4.2

./bul2107.txt Wed Jan 11 09:16:11 2023 25

Event 10711008 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/11	21:07:10.67			44.7500	151.1730				33.0					79.56	79.56	m i ke	BGR
OrigID 10711014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	10711014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.56		P	21:19:13.499		28.3		4.75		TAS		12.2	1.31	m_e mb	4.7

Event 10712001 Chagos Archipelago region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/12	01:28:03.10			-5.1600	68.4400				33.0					73.64	73.64	m i ke	NEIC
OrigID 10712040																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	10712007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	73.64		P	01:39:35.765		119.2		7.55		TAS		8.8	1.43	m_e mb	4.6

Event 10712002 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/12	03:19:15.45			-8.3860	64.4090				33.0					74.08	74.08	m i ke	BGR
OrigID 10712008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	10712008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	74.08		P	03:30:49.356		124.8		6.83		TAS		2.5	1.03	m_e mb	4.2

Event 10712006 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/12	22:52:02.15			-20.4770	170.2250				33.0				11	144.34	148.17	m i ke	BGR
OrigID																	

2021/07/12 23:26:35.80
10712040

11.6900 -86.3900

109.0

23

82.82 87.82 m i ke EMSC

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 10712014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	83.26		P	23:38:48.858	-1.2	286.1		4.98		TAS		21.8	1.20	m_e	mb 5.3
ASSE	85.15		P	23:38:58.097	0.4	286.1		4.98		TAS		20.2	1.42	m_e	mb 5.2
ASSE	85.15		PP	23:42:24.324		288.1		7.76		TAS				m_e	
BFO	84.48		P	23:38:55.370	0.1	286.1		4.98		TAS		8.8	1.00	m_e	mb 4.9
BFO	84.48		PP	23:42:21.067	-0.9	288.1		7.76		TAS				m_e	
BRG	87.44		P	23:39:09.566		286.1		4.98		TAS		10.9	1.18	m_e	mb 4.9
BRG	87.44		PP	23:42:41.775		288.1		7.76		TAS				m_e	
BSEG	84.54		P	23:38:55.114	-0.0	286.1		4.98		TAS		18.4	1.47	m_e	mb 5.1
CLL	86.75		P	23:39:06.330		286.1		4.98		TAS		11.0	0.91	m_e	mb 5.0
CLL	86.75		PP	23:42:35.493		288.1		7.76		TAS				m_e	
CLZ	85.03		P	23:38:57.375	0.0	286.1		4.98		TAS		12.6	0.90	m_e	mb 5.1
CLZ	85.03		PP	23:42:23.161	0.3	288.1		7.76		TAS				m_e	
FLT1	85.44		P	23:38:59.219	0.4	286.1		4.98		TAS		6.8	0.99	m_e	mb 4.8
FLT1	85.44		PP	23:42:25.022		288.1		7.76		TAS				m_e	
FUR	86.43		P	23:39:04.994	0.2	286.1		4.98		TAS		11.4	0.94	m_e	mb 5.0
GEC2	87.82		P	23:39:11.250		286.1		4.98		TAS		12.1	1.34	m_e	mb 5.1
GOR1	85.33		PP	23:42:24.091		288.1		7.76		TAS				m_e	
GRA1	86.04		P	23:39:03.149	0.4	286.1		4.98		TAS		9.2	0.89	m_e	mb 4.9
GTTG	84.85		P	23:38:56.412	0.3	286.1		4.98		TAS		13.0	0.94	m_e	mb 5.1
GTTG	84.85		PP	23:42:21.532	-0.5	288.1		7.76		TAS				m_e	
IBBN	83.36		P	23:38:48.953	-0.2	286.1		4.98		TAS		7.3	0.72	m_e	mb 5.0
IBBN	83.36		PP	23:42:09.200	0.2	288.1		7.76		TAS				m_e	
KAST	83.97		P	23:38:51.039	-0.3	286.1		4.98		TAS		4.4	0.88	m_e	mb 4.7
KAST	83.97		PP	23:42:13.854	0.6	288.1		7.76		TAS				m_e	
MOX	86.06		P	23:39:02.665	0.3	286.1		4.98		TAS		9.4	0.97	m_e	mb 4.9
NEUB	86.03		P	23:39:02.737	-0.1	286.1		4.98		TAS		10.8	0.96	m_e	mb 5.0
NEUB	86.03		PP	23:42:29.676		288.1		7.76		TAS				m_e	
PLN	86.44		P	23:39:04.452	-0.1	286.1		4.98		TAS		6.6	0.91	m_e	mb 4.8
RETH	84.23		P	23:38:52.964	0.8	286.1		4.98		TAS		14.9	1.14	m_e	mb 5.1
RETH	84.23		PP	23:42:16.413	1.1	288.1		7.76		TAS				m_e	
RGN	86.11		P	23:39:01.064	-0.1	286.1		4.98		TAS		87.9	0.98	m_e	mb 5.8
TANN	86.64		P	23:39:05.848	-0.5	286.1		4.98		TAS		14.5	0.94	m_e	mb 5.1
TNS	84.18		P	23:38:53.204	-0.0	286.1		4.98		TAS		10.6	0.96	m_e	mb 5.0
WET	87.22		P	23:39:08.683		286.1		4.98		TAS		16.8	1.12	m_e	mb 5.1
WLF	82.82		P	23:38:47.349	0.4	286.1		4.98		TAS		17.6	1.04	m_e	mb 5.2

Event 10713001 Northwest of Kuril Islands, Russia

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

OrigID

2021/07/13 00:30:24.20
10713007

47.2400 149.9400

33.0

28

72.05 79.01 m i ke BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	10713007
Ms	5.4		BGR	10713007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	77.35		S	00:52:04.486	0.3	28.1		11.04		TAS				m_e	
AHRW	77.35		P	00:42:16.306	-0.0	27.6		5.67		TAS		66.2	1.00	a_e mb	5.7
ASSE	74.93		S	00:51:39.006	0.3	28.1		11.04		TAS				m_e	
ASSE	74.93		P	00:42:02.706	-0.5	27.6		5.67		TAS		61.0	1.24	a_e mb	5.5
BFO	79.01		S	00:52:23.694	0.3	28.1		11.04		TAS				m_e	
BFO	79.01		P	00:42:25.256		27.6		5.67		TAS		79.4	1.13	a_e mb	5.7
BRG	75.07		S	00:51:37.830	0.3	28.1		11.04		TAS				m_e	
BRG	75.07		P	00:42:03.356	0.4	27.6		5.67		TAS		115.0	1.78	a_e mb	5.6
BSEG	73.43		S	00:51:22.541	0.3	28.1		11.04		TAS				m_e	
BSEG	73.43		P	00:41:54.156	-0.0	27.6		5.67		TAS		59.7	1.39	a_e mb	5.4
BUG	76.48		S	00:51:56.646	0.3	28.1		11.04		TAS				m_e	
BUG	76.48		P	00:42:11.306	0.1	27.6		5.67		TAS		76.8	1.13	a_e mb	5.7
CLL	74.98		S	00:51:37.242	0.3	28.1		11.04		TAS				m_e	
CLL	74.98		P	00:42:02.556	-0.1	27.6		5.67		TAS		80.0	1.12	a_e mb	5.7
CLZ	75.27		S	00:51:43.318	0.3	28.1		11.04		TAS				m_e	
CLZ	75.27		P	00:42:05.106	-0.2	27.6		5.67		TAS		289.3	1.68	a_e mb	6.0
FLT1	74.59		S	00:51:34.694	0.3	28.1		11.04		TAS				m_e	
FLT1	74.59		P	00:42:00.306	0.1	27.6		5.67		TAS		75.8	1.28	a_e mb	5.6
FUR	78.28		S	00:52:16.638	0.3	28.1		11.04		TAS				m_e	
FUR	78.28		P	00:42:21.706	-0.4	27.6		5.67		TAS		129.1	1.13	a_e mb	6.0
GEC2	76.92		S	00:52:00.370	0.3	28.1		11.04		TAS				m_e	
GEC2	76.92		P	00:42:14.006	0.5	27.6		5.67		TAS		39.4	1.08	a_e mb	5.5
GOR1	73.99		P	00:41:57.756	-0.5	27.6		5.67		TAS		140.6	1.46	a_e mb	5.8
GRA1	76.94		S	00:52:02.330	0.3	28.1		11.04		TAS				m_e	
GRA1	76.94		P	00:42:14.456	-0.1	27.6		5.67		TAS		219.3	1.41	a_e mb	6.1
GRA1	76.94		L	01:20:25.814						T__		1829.4	19.70	a_e Ms	5.4
GTTG	75.65		S	00:51:47.630	0.3	28.1		11.04		TAS				m_e	
GTTG	75.65		P	00:42:07.006	0.1	27.6		5.67		TAS		130.7	1.44	a_e mb	5.9
HLG	73.85		S	00:51:26.854	0.3	28.1		11.04		TAS				m_e	
IBBN	75.57		S	00:51:45.278	0.3	28.1		11.04		TAS				m_e	
IBBN	75.57		P	00:42:06.206	0.2	27.6		5.67		TAS		87.5	1.23	a_e mb	5.8
KAST	76.39		S	00:51:56.646	0.3	28.1		11.04		TAS				m_e	
KAST	76.39		P	00:42:11.106	-0.2	27.6		5.67		TAS		72.0	1.18	a_e mb	5.7
MOX	75.98		S	00:51:50.766	0.3	28.1		11.04		TAS				m_e	
MOX	75.98		P	00:42:08.706	0.1	27.6		5.67		TAS		179.0	1.80	a_e mb	5.9
MOX	75.98		L	01:21:20.386						T__		2023.6	18.90	a_e Ms	5.5
NEUB	75.45		S	00:51:44.298	0.3	28.1		11.04		TAS				m_e	
NEUB	75.45		P	00:42:05.456	-0.1	27.6		5.67		TAS		198.4	1.59	a_e mb	6.0
PLN	75.96		S	00:51:49.982	0.3	28.1		11.04		TAS				m_e	
PLN	75.96		P	00:42:08.656	0.0	27.6		5.67		TAS		61.9	1.81	m_e mb	5.4
RETH	74.75		P	00:42:01.756	-0.1	27.6		5.67		TAS		203.3	1.85	a_e mb	5.8

RGN	72.05	S	00:51:08.233	0.3	28.1	11.04	TAS							m_e	
RGN	72.05	P	00:41:46.356	-0.1	27.6	5.67	TAS	136.9	1.20	a_e	mb	6.0			
RUE	73.72	S	00:51:25.874	0.3	28.1	11.04	TAS							m_e	
RUE	73.72	P	00:41:55.856	-0.0	27.6	5.67	TAS	222.0	1.67	a_e	mb	5.9			
STU	78.36	S	00:52:16.050	0.3	28.1	11.04	TAS							m_e	
STU	78.36	P	00:42:21.806	0.6	27.6	5.67	TAS	154.4	1.00	a_e	mb	6.1			
TANN	75.93	S	00:51:48.806	0.3	28.1	11.04	TAS							m_e	
TANN	75.93	P	00:42:08.506	0.1	27.6	5.67	TAS	61.2	1.47	a_e	mb	5.5			
TNS	77.26	S	00:52:02.526	0.3	28.1	11.04	TAS							m_e	
TNS	77.26	P	00:42:15.906	-0.1	27.6	5.67	TAS	99.1	1.26	a_e	mb	5.8			
WET	76.92	S	00:52:02.526	0.3	28.1	11.04	TAS							m_e	
WET	76.92	P	00:42:14.456	0.3	27.6	5.67	TAS	98.3	1.20	a_e	mb	5.8			
WLF	78.40	S	00:52:18.010	0.3	28.1	11.04	TAS							m_e	
WLF	78.40	P	00:42:22.956	-0.6	27.6	5.67	TAS	122.3	1.54	a_e	mb	5.7			

Event 10713002 Off east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/13	02:28:59.70			52.7400	159.5100				33.0			28		69.34	76.24	m i ke	BGR
	10713008																

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	10713008
Ms	5.0		BGR	10713008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	74.37		P	02:40:35.373	0.2	19.6		5.93		TAS		40.2	1.20	a_e	mb	5.4
ASSE	72.16		S	02:49:41.978		18.3		12.50		TAS				m_e		
ASSE	72.16		P	02:40:22.173	0.4	19.6		5.93		TAS		52.4	1.14	a_e	mb	5.6
BFO	76.24		P	02:40:45.873	-0.1	19.6		5.93		TAS		30.2	1.09	a_e	mb	5.2
BRG	72.63		P	02:40:24.723	0.0	19.6		5.93		TAS		98.3	1.81	a_e	mb	5.6
BSEG	70.52		P	02:40:12.423	0.3	19.6		5.93		TAS		39.1	0.88	a_e	mb	5.7
BUG	73.47		P	02:40:29.623	-0.4	19.6		5.93		TAS		32.3	0.88	a_e	mb	5.5
CLL	72.44		P	02:40:23.323	0.1	19.6		5.93		TAS		54.2	0.85	a_e	mb	5.7
CLZ	72.49		S	02:49:48.341		18.3		12.50		TAS				m_e		
CLZ	72.49		P	02:40:24.523	0.1	19.6		5.93		TAS		89.3	1.17	a_e	mb	5.8
FLT1	71.85		P	02:40:19.773	0.1	19.6		5.93		TAS		47.9	0.96	a_e	mb	5.6
FUR	75.78		P	02:40:43.473		19.6		5.93		TAS		64.8	1.21	a_e	mb	5.5
GEC2	74.59		P	02:40:36.473	-0.2	19.6		5.93		TAS		32.4	1.13	a_e	mb	5.4
GOR1	71.22		P	02:40:16.873	0.1	19.6		5.93		TAS		198.5	1.51	a_e	mb	6.0
GRA1	74.35		P	02:40:35.423	0.4	19.6		5.93		TAS		68.6	1.00	a_e	mb	5.7
GRA1	74.35		L	03:15:23.511						T__		890.6	21.20	a_e	Ms	5.0
GTTG	72.85		P	02:40:26.323	-0.2	19.6		5.93		TAS		33.3	0.91	a_e	mb	5.5
HLG	70.74		P	02:40:13.390		19.6		5.93		TAS		75.5	0.82	m_e	mb	5.9
IBBN	72.55		P	02:40:24.423	-0.5	19.6		5.93		TAS		47.3	0.85	a_e	mb	5.7
KAST	73.48		S	02:50:00.170		18.3		12.50		TAS				m_e		

KAST	73.48	P	02:40:30.023	-0.3	19.6	5.93	TAS	31.1	1.10	a_e	mb	5.3
MOX	73.36	P	02:40:29.273	0.2	19.6	5.93	TAS	39.4	0.99	a_e	mb	5.5
MOX	73.36	L	03:14:43.588				T__	797.0	21.60	a_e	Ms	5.0
NEUB	72.81	S	02:49:50.748		18.3	12.50	TAS			m_e		
NEUB	72.81	P	02:40:25.723	-0.1	19.6	5.93	TAS	35.0	1.03	a_e	mb	5.4
PLN	73.39	S	02:49:55.622		18.3	12.50	TAS			m_e		
PLN	73.39	P	02:40:29.623	0.2	19.6	5.93	TAS	15.0	1.06	a_e	mb	5.0
RETH	71.84	P	02:40:20.273	-0.1	19.6	5.93	TAS	33.7	1.08	a_e	mb	5.4
RGN	69.34	P	02:40:05.273	-0.1	19.6	5.93	TAS	196.7	1.06	a_e	mb	6.3
RUE	71.17	S	02:49:32.199		18.3	12.50	TAS			m_e		
RUE	71.17	P	02:40:16.173	0.0	19.6	5.93	TAS	104.5	1.08	a_e	mb	5.9
STU	75.64	P	02:40:42.573	-0.5	19.6	5.93	TAS	61.7	0.98	a_e	mb	5.6
TANN	73.39	S	02:50:00.529		18.3	12.50	TAS			m_e		
TANN	73.39	P	02:40:29.623	-0.0	19.6	5.93	TAS	43.0	1.32	m_e	mb	5.4
TNS	74.41	P	02:40:35.473	0.2	19.6	5.93	TAS	36.1	1.09	a_e	mb	5.4
WET	74.49	S	02:50:13.895		18.3	12.50	TAS			m_e		
WET	74.49	P	02:40:36.323	0.1	19.6	5.93	TAS	47.7	1.03	a_e	mb	5.6
WLF	75.38	P	02:40:41.373	0.3	19.6	5.93	TAS	53.7	1.51	a_e	mb	5.3

Event 10713004 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/13	11:11:51.70			29.7700	50.8600				10.0					35.85	35.85	m i ke	EMSC
10713036																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	10713010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	35.85		P	11:18:51.106		108.8		9.63		TAS		14.1	1.05	m_e	mb	4.7

Event 10713005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/13	11:26:51.30			-23.3100	172.2600				10.0					149.71	149.71	m i ke	EMSC
10713037																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	149.71		PKP	11:46:40.976		36.4		1.82		TAS				m_e		

Event 10713006 Sicily, Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/13	13:07:21.67	5.79	0.40	38.5640	13.5740	84.5	31.1	168	470.0			20	340	9.74	14.47	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	10713012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	12.83		P	13:10:10.207	0.4					T__		19.6	0.69	m_e	mb	4.3
ASSE	13.71		P	13:10:19.679	0.5					T__		14.1	0.99	m_e	mb	4.0
BRG	12.30		P	13:10:04.219	0.0					T__		10.0	0.66	m_e	mb	4.1
BUG	13.61		P	13:10:18.699	0.5					T__		7.3	0.53	m_e	mb	4.0
CLL	12.74		P	13:10:09.445	0.5					T__		26.0	0.67	m_e	mb	4.5
CLZ	13.46		P	13:10:16.957	0.4					T__		16.2	0.73	m_e	mb	4.2
FLT1	13.86		P	13:10:20.549	-0.2					T__		4.4	0.69	m_e	mb	3.8
FUR	9.74		P	13:09:35.126	-1.2					T__				m_e		
GEC2	10.27		P	13:09:42.024	-0.0					T__				m_e		
GRA1	11.25		P	13:09:52.680	0.1					T__		63.4	0.81	m_e	mb	4.8
GTTG	13.22		P	13:10:13.909	-0.1					T__		14.9	0.66	m_e	mb	4.2
IBBN	14.32		P	13:10:25.775	0.1					T__		19.6	0.80	m_e	mb	4.4
KAST	13.14		P	13:10:12.493	-0.7					T__		11.7	0.74	m_e	mb	4.1
MOX	12.15		P	13:10:02.586	0.0					T__		33.6	0.69	m_e	mb	4.6
PLN	11.96		P	13:10:00.627	0.2					T__		4.9	0.59	m_e	mb	3.8
RETH	14.47		P	13:10:26.973	-0.2					T__		8.5	1.06	m_e	mb	3.9
RUE	13.91		P	13:10:21.094	-0.2					T__		46.2	0.95	m_e	mb	4.7
TANN	11.87		P	13:09:59.647	0.2					T__		32.7	0.85	m_e	mb	4.5
TNS	12.21		P	13:10:03.022	-0.2					T__		26.9	0.72	m_e	mb	4.5
WET	10.58		P	13:09:45.273	-0.1					T__				m_e		

Event 10713007 Southwest Indian Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/13	20:45:22.80			-27.8000	63.8500				10.0					90.26	90.26	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	10713013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	90.26		P	20:58:23.470		135.2		5.54		TAS		6.1	1.05	m_e	mb	4.8

Event 10713008 Hindu Kush, Afghanistan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/13	21:10:35.10			36.5900	70.9800				200.0					44.37	44.37	m i ke	EMSC
OrigID 10713040																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	10713014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	44.37		P	21:18:26.530		83.7		6.76		TAS		4.3	0.88	m_e mb	4.2

Event 10714001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/14	02:08:12.02			-18.2300	-174.5200				52.9	8.1		25		144.92	149.79	m i ke	BGR
OrigID 10714007																	

Magnitude	Err	Nsta	Author	OrigID
-----------	-----	------	--------	--------

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.64		PKPbc	02:27:50.183	-0.1	9.4		2.88		TAS				m_e	
ASSE	145.84		PKPbc	02:27:44.632	0.1	9.4		2.88		TAS				m_e	
ASSE	145.84		pPKPbc	02:28:00.335	-0.9	8.0		2.93		TAS				m_e	
BFO	149.79		PKPbc	02:27:55.393		9.4		2.88		TAS				m_e	
BRG	146.65		PKPbc	02:27:47.482	0.3	9.4		2.88		TAS				m_e	
BUG	146.74		PKPbc	02:27:47.282	0.4	9.4		2.88		TAS				a_e	
CLL	146.37		PKPbc	02:27:46.382	0.3	9.4		2.88		TAS				a_e	
CLL	146.37		pPKPbc	02:28:01.960	-0.9	8.0		2.93		TAS				m_e	
CLZ	146.15		PKPbc	02:27:46.132	0.3	9.4		2.88		TAS				a_e	
FLT1	145.58		PKPbc	02:27:43.682	0.6	9.4		2.88		TAS				a_e	
FUR	149.68		PKPbc	02:27:55.423		9.4		2.88		TAS				m_e	
FUR	149.68		pPKPbc	02:28:11.654	-0.9	8.0		2.93		TAS				m_e	
GEC2	148.66		PKPbc	02:27:52.982	-0.7	9.4		2.88		TAS				a_e	
GEC2	148.66		pPKPbc	02:28:09.821	-0.9	8.0		2.93		TAS				m_e	
GOR1	144.92		PKPbc	02:27:41.120	-0.3	9.4		2.88		TAS				m_e	
GRA1	148.19		PKPbc	02:27:51.503	-0.0	9.4		2.88		TAS				m_e	
GTTG	146.48		PKPbc	02:27:46.838	-0.2	9.4		2.88		TAS				m_e	
IBBN	145.86		PKPbc	02:27:45.032	0.4	9.4		2.88		TAS				a_e	
IBBN	145.86		pPKPbc	02:28:01.238	-0.9	8.0		2.93		TAS				m_e	
KAST	146.93		PKPbc	02:27:47.747	0.3	9.4		2.88		TAS				m_e	
MOX	147.20		PKPbc	02:27:48.932	0.1	9.4		2.88		TAS				a_e	
MOX	147.20		pPKPbc	02:28:05.073	-0.9	8.0		2.93		TAS				m_e	
NEUB	146.64		PKPbc	02:27:47.282	-0.1	9.4		2.88		TAS				a_e	

./bul2107.txt

Wed Jan 11 09:16:11 2023

33

PLN	147.29	PKPbc	02:27:49.282	0.2	9.4	2.88	TAS	a_e
RETH	145.34	PKPbc	02:27:43.232	0.2	9.4	2.88	TAS	a_e
RUE	145.12	PKPbc	02:27:42.182	-0.1	9.4	2.88	TAS	a_e
STU	149.29	PKPbc	02:27:54.532		9.4	2.88	TAS	a_e
TANN	147.32	PKPbc	02:27:49.343	0.1	9.4	2.88	TAS	m_e
TANN	147.32	pPKPbc	02:28:06.195	-0.9	8.0	2.93	TAS	m_e
TNS	147.90	PKPbc	02:27:50.882	0.3	9.4	2.88	TAS	a_e
WET	148.50	PKPbc	02:27:52.382	-0.1	9.4	2.88	TAS	m_e
WLF	148.54	PKPbc	02:27:53.032	-0.4	9.4	2.88	TAS	a_e

Event 10714002 Off east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/14	02:43:04.09			52.8210	160.3470				30.0					74.45	74.45	m i ke	BGR
10714008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	10714008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	74.45		P	02:54:38.499		18.9		4.98		TAS		9.2	1.05	m_e mb	4.7

Event 10714003 Near east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/14	03:34:43.80			53.1660	159.9640				33.0					74.04	74.04	m i ke	BGR
10714009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	10714009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	74.04		P	03:46:15.428		19.0		5.05		TAS		6.3	1.02	m_e mb	4.6

Event 10714006 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/14	15:36:07.80			31.0200	103.5300				10.0					68.40	68.40	m i ke	EMSC
10714038																	

Magnitude Err Nsta Author OrigID
mb 4.9 BGR 10714012

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 68.40 P 15:47:10.501 67.3 5.82 TAS 8.8 1.13 m_e mb 4.9

Event 10714005 Near east coast of Kamchatka Peninsula, Russia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2021/07/14 23:05:25.20 51.8400 157.9230 33.0 74.83 74.83 m i ke BGR
10714011

Magnitude Err Nsta Author OrigID
mb 4.5 BGR 10714011

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 74.83 P 23:17:01.431 23.9 5.20 TAS 5.6 1.02 m_e mb 4.5

Event 10715001 South of Fiji Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2021/07/14 23:54:17.93 -22.2300 -180.6300 651.0 4.7 25 147.19 152.91 m i ke BGR
10715007

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
ASSE 148.83 PKPbc 00:12:53.837 -0.1 21.5 2.30 TAS a_e
ASSE 148.83 PKPab 00:12:59.843 -0.6 20.8 4.27 TAS m_e
BFO 152.91 PKPbc 00:13:02.787 21.5 2.30 TAS a_e
BFO 152.91 PKPab 00:13:17.278 20.8 4.27 TAS m_e
BRG 149.16 PKPbc 00:12:54.737 0.2 21.5 2.30 TAS a_e
BSEG 147.19 PKPbc 00:12:49.687 -0.2 21.5 2.30 TAS a_e
BUG 150.12 PKPbc 00:12:56.587 0.3 21.5 2.30 TAS a_e
CLL 149.03 PKPbc 00:12:54.187 0.4 21.5 2.30 TAS a_e
CLL 149.03 PKPab 00:13:01.001 0.1 20.8 4.27 TAS m_e
CLL 149.03 pPKPbc 00:15:20.970 0.1 T__ m_e
CLZ 149.16 PKPbc 00:12:54.937 0.2 21.5 2.30 TAS a_e
CLZ 149.16 PKPab 00:13:02.040 0.3 20.8 4.27 TAS m_e
FLT1 148.51 PKPbc 00:12:52.737 -0.0 21.5 2.30 TAS a_e
FLT1 148.51 PKPab 00:12:58.763 0.4 20.8 4.27 TAS m_e
FUR 152.35 PKPbc 00:13:01.702 21.5 2.30 TAS m_e
FUR 152.35 PKPab 00:13:15.629 20.8 4.27 TAS m_e

GEC2	151.03	PKPbc	00:12:58.837	-0.1	21.5	2.30	TAS	a_e
GEC2	151.03	pPKPbc	00:15:26.034	0.1			T__	m_e
GOR1	147.88	PKPbc	00:12:51.587	-0.3	21.5	2.30	TAS	a_e
GRA1	150.97	PKPbc	00:12:58.941	-0.2	21.5	2.30	TAS	m_e
GRA1	150.97	PKPab	00:13:09.448		20.8	4.27	TAS	m_e
GTTG	149.52	PKPbc	00:12:55.587	0.2	21.5	2.30	TAS	a_e
GTTG	149.52	PKPab	00:13:03.557	-0.3	20.8	4.27	TAS	m_e
IBBN	149.20	PKPbc	00:12:54.687	0.1	21.5	2.30	TAS	a_e
IBBN	149.20	PKPab	00:13:01.809	0.0	20.8	4.27	TAS	m_e
KAST	150.15	PKPbc	00:12:56.937	0.1	21.5	2.30	TAS	a_e
MOX	149.99	PKPbc	00:12:56.537	0.2	21.5	2.30	TAS	m_e
MOX	149.99	PKPab	00:13:04.661		20.8	4.27	TAS	m_e
NEUB	149.44	PKPbc	00:12:55.391	0.1	21.5	2.30	TAS	m_e
NEUB	149.44	PKPab	00:13:03.004	0.2	20.8	4.27	TAS	m_e
PLN	150.00	PKPbc	00:12:56.637	0.1	21.5	2.30	TAS	a_e
PLN	150.00	PKPab	00:13:05.375		20.8	4.27	TAS	m_e
RETH	148.51	PKPbc	00:12:52.987	0.1	21.5	2.30	TAS	a_e
RETH	148.51	pPKPbc	00:15:21.277	0.1			T__	m_e
RUE	147.76	PKPbc	00:12:51.087	-0.1	21.5	2.30	TAS	a_e
STU	152.30	PKPbc	00:13:01.687	-0.4	21.5	2.30	TAS	a_e
TANN	149.98	PKPbc	00:12:56.637	-0.3	21.5	2.30	TAS	a_e
TANN	149.98	pPKPbc	00:15:24.125	0.1			T__	m_e
TNS	151.08	PKPbc	00:12:59.111	-0.2	21.5	2.30	TAS	m_e
TNS	151.08	PKPab	00:13:10.121		20.8	4.27	TAS	m_e
WET	151.01	PKPbc	00:12:58.719	0.3	21.5	2.30	TAS	m_e
WET	151.01	PKPab	00:13:10.019		20.8	4.27	TAS	m_e
WLF	152.01	PKPbc	00:13:01.587	-0.2	21.5	2.30	TAS	a_e

Event 10716002 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/16	04:20:01.29			33.5220	140.7010				14.1	1.1		24		82.56	87.97	m i ke	BGR
10716008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	10716008
MBB	5.8		BGR	10716008
Ms	5.1		BGR	10716008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	84.07		P	04:32:27.816	-0.0	40.2		4.97		TAS		122.6	2.00	m_e	MBB 5.9
BFO	87.97		P	04:32:46.380		40.2		4.97		TAS		17.8	1.08	m_e	MBB 5.8
BRG	83.68		P	04:32:25.756	-0.4	40.2		4.97		TAS		124.7	2.01	m_e	MBB 5.8
BSEG	82.82		P	04:32:21.554	0.2	40.2		4.97		TAS		14.7	0.94	m_e	MBB 5.7
BUG	85.93		P	04:32:36.809	0.1	40.2		4.97		TAS		12.9	0.98	m_e	MBB 5.4
CLL	83.75		P	04:32:25.673	-0.4	40.2		4.97		TAS		34.9	1.05	m_e	MBB 5.7

CLZ	84.41	P	04:32:29.850	0.2	40.2	4.97	TAS	222.2	1.92	m_e	MBB	6.0
FLT1	83.69	P	04:32:25.165	0.1	40.2	4.97	TAS	93.2	1.74	m_e	MBB	5.9
FUR	86.86	P	04:32:41.726	-0.7	40.2	4.97	TAS	24.7	0.87	m_e	mb	5.3
GEC2	85.29	P	04:32:33.717	0.2	40.2	4.97	TAS	15.6	0.99	m_e	MBB	5.7
GEC2	85.29	pP	04:32:37.612	0.1	40.8	4.83	TAS			m_e		
GOR1	83.16	P	04:32:23.386	0.0	40.2	4.97	TAS	71.5	1.51	m_e	MBB	6.0
GRA1	85.72	P	04:32:36.318	-0.1	40.2	4.97	TAS	43.2	0.99	m_e	mb	5.5
GRA1	85.72	S	04:43:10.846				T__			m_e		
GRA1	85.72	L	05:10:37.978				T__	672.3	19.80	a_e	Ms	5.0
GTTG	84.80	P	04:32:31.707	-0.1	40.2	4.97	TAS	26.9	0.86	m_e	MBB	6.0
IBBN	85.06	P	04:32:32.510	0.1	40.2	4.97	TAS	146.6	1.67	m_e	MBB	6.0
IBBN	85.06	pP	04:32:36.738	0.1	40.8	4.83	TAS			m_e		
KAST	85.68	P	04:32:35.935	-0.1	40.2	4.97	TAS	19.7	0.95	m_e	MBB	5.7
MOX	84.83	P	04:32:31.203	-0.0	40.2	4.97	TAS	22.3	1.14	m_e	MBB	5.8
MOX	84.83	pP	04:32:35.628	0.1	40.8	4.83	TAS			m_e		
MOX	84.83	S	04:43:02.077				T__			m_e		
MOX	84.83	L	05:17:36.253				T__	991.3	18.50	a_e	Ms	5.2
NEUB	84.34	P	04:32:29.028	0.1	40.2	4.97	TAS	46.4	0.99	m_e	MBB	6.0
PLN	84.72	P	04:32:31.086	-0.2	40.2	4.97	TAS	41.6	1.98	m_e	MBB	5.4
RETH	84.11	P	04:32:27.537	0.5	40.2	4.97	TAS	114.3	1.79	m_e	MBB	5.9
RUE	82.56	P	04:32:20.209	0.1	40.2	4.97	TAS	21.2	0.81	m_e	MBB	6.0
TANN	84.65	P	04:32:30.698	0.4	40.2	4.97	TAS	82.2	1.94	m_e	MBB	5.7
TANN	84.65	pP	04:32:34.553	0.1	40.8	4.83	TAS			m_e		
TNS	86.43	P	04:32:39.333	0.4	40.2	4.97	TAS	94.7	2.03	m_e	MBB	5.5
WET	85.43	P	04:32:34.507	0.4	40.2	4.97	TAS	75.0	1.86	m_e	MBB	5.7
WLF	87.78	P	04:32:46.492		40.2	4.97	TAS	77.2	1.65	m_e	MBB	6.0

Event 10717002 Shikoku, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/17	11:49:59.26		33.6600	132.7000				77.4		1.4		22		78.98	84.37	m i ke	BGR
10717008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	10717008
Ms	4.6		BGR	10717008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	80.61		P	12:02:02.566	0.6	45.7		5.23		TAS		7.9	0.86	m_e	mb	4.8
BFO	84.37		P	12:02:22.146		45.7		5.23		TAS		17.6	1.04	m_e	mb	5.2
BSEG	79.50		P	12:01:56.572	-0.2	45.7		5.23		TAS		10.9	0.92	m_e	mb	4.8
BUG	82.58		pP	12:02:33.894		44.6		5.51		TAS				m_e		
CLL	80.12		P	12:01:59.830	0.0	45.7		5.23		TAS		13.3	0.91	m_e	mb	4.9
CLZ	80.94		P	12:02:04.887	-0.4	45.7		5.23		TAS		23.8	1.23	m_e	mb	5.1
FLT1	80.22		P	12:02:00.062	-0.0	45.7		5.23		TAS		8.0	0.82	m_e	mb	4.7
FUR	83.10		P	12:02:15.617		45.7		5.23		TAS		30.0	1.10	m_e	mb	5.4

GEC2	81.47	P	12:02:06.930	-0.4	45.7	5.23	TAS	4.8	0.87	m_e	mb	4.7
GRA1	82.06	P	12:02:10.533	-0.3	45.7	5.23	TAS	31.5	1.02	m_e	mb	5.4
GRA1	82.06	L	12:41:10.392				T__	313.3	21.60	a_e	Ms	4.6
GTTG	81.33	P	12:02:06.644	0.3	45.7	5.23	TAS	13.0	1.00	m_e	mb	4.9
GTTG	81.33	pP	12:02:26.397		44.6	5.51	TAS			m_e		
KAST	82.25	P	12:02:10.765	0.3	45.7	5.23	TAS	16.2	1.57	m_e	mb	4.9
MOX	81.22	P	12:02:05.342	0.1	45.7	5.23	TAS	12.6	1.33	m_e	mb	4.8
MOX	81.22	L	12:39:20.034				T__	222.7	21.80	a_e	Ms	4.5
NEUB	80.77	P	12:02:03.694	0.3	45.7	5.23	TAS	17.4	0.88	m_e	mb	5.1
PLN	81.08	P	12:02:05.299	-0.1	45.7	5.23	TAS	5.0	1.42	m_e	mb	4.3
RETH	80.75	P	12:02:03.223	0.2	45.7	5.23	TAS	8.1	1.00	m_e	mb	4.7
RUE	78.98	P	12:01:53.976	-0.1	45.7	5.23	TAS	20.7	0.97	m_e	mb	5.1
STU	83.65	P	12:02:18.211		45.7	5.23	TAS	49.6	1.07	m_e	mb	5.7
TANN	80.99	P	12:02:04.756	0.3	45.7	5.23	TAS	20.0	1.68	m_e	mb	4.9
TNS	82.95	P	12:02:14.612		45.7	5.23	TAS	21.2	1.40	m_e	mb	5.2
WET	81.66	P	12:02:08.148	-0.2	45.7	5.23	TAS	12.3	1.46	m_e	mb	4.8
WET	81.66	pP	12:02:29.047		44.6	5.51	TAS			m_e		
WLF	84.37	P	12:02:22.450		45.7	5.23	TAS	20.3	1.17	m_e	mb	5.2
WLF	84.37	pP	12:02:43.253		44.6	5.51	TAS			m_e		

Event 10717004 South of Panama

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/17	20:56:37.28			7.7100	-82.6100				33.0	0.5		25		83.39	88.39	m i ke	BGR
OrigID 10717010																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	10717010
MBB	6.3		BGR	10717010
Ms	5.7		BGR	10717010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	85.98	P		21:08:55.643	0.6	277.6		4.89		TAS		194.3	1.25	m_e	MBB 6.4
BFO	84.93	P		21:08:49.438	0.1	277.6		4.89		TAS		70.1	1.02	m_e	MBB 6.2
BSEG	85.54	P		21:08:52.984	-0.1	277.6		4.89		TAS		142.9	1.28	m_e	MBB 6.2
BUG	83.96	P		21:08:44.988	0.1	277.6		4.89		TAS		42.5	1.10	m_e	MBB 5.8
CLL	87.53	P		21:09:02.874	-0.2	277.6		4.89		TAS		117.3	1.11	m_e	MBB 6.3
CLZ	85.84	P		21:08:55.039	0.4	277.6		4.89		TAS		162.5	1.07	m_e	MBB 6.3
FLT1	86.30	P		21:08:56.503	0.4	277.6		4.89		TAS		126.2	1.07	m_e	MBB 6.1
FUR	86.91	P		21:08:59.737		277.6		4.89		TAS		208.2	1.65	m_e	MBB 6.2
GEC2	88.39	P		21:09:06.498	-0.0	277.6		4.89		TAS		69.5	1.19	m_e	MBB 6.2
GOR1	86.25	P		21:08:56.489	0.5	277.6		4.89		TAS		219.1	1.64	m_e	MBB 6.3
GRA1	86.65	P		21:08:58.759	0.3	277.6		4.89		TAS		99.1	0.98	m_e	mb 5.9
GRA1	86.65	L		21:42:07.520						T__		4367.8	21.80	a_e	Ms 5.8
GTTG	85.62	P		21:08:53.828	-0.3	277.6		4.89		TAS		112.3	1.06	m_e	MBB 6.2
IBBN	84.18	P		21:08:46.213	-0.3	277.6		4.89		TAS		113.8	1.07	m_e	MBB 6.3

KAST	84.69	P	21:08:48.635	0.3	277.6	4.89	TAS	91.7	1.12	m_e	MBB	6.2
MOX	86.77	P	21:08:58.704	-0.2	277.6	4.89	TAS	77.5	1.15	m_e	MBB	6.0
MOX	86.77	L	21:45:28.692				T__	2695.6	20.50	a_e	Ms	5.6
NEUB	86.79	P	21:08:59.489	-0.3	277.6	4.89	TAS	111.0	1.12	m_e	MBB	6.3
PLN	87.14	P	21:09:00.645	0.1	277.6	4.89	TAS	38.5	1.07	m_e	MBB	5.7
RETH	85.11	P	21:08:51.447	-0.3	277.6	4.89	TAS	201.9	1.29	m_e	MBB	6.4
RGN	87.20	P	21:09:00.766	-0.4	277.6	4.89	TAS	219.5	0.97	m_e	MBB	6.5
RUE	87.81	P	21:09:03.937	-0.2	277.6	4.89	TAS	154.1	1.46	m_e	MBB	6.3
STU	85.46	P	21:08:52.507	-0.5	277.6	4.89	TAS	389.7	1.07	m_e	MBB	6.7
TANN	87.34	P	21:09:01.938	-0.0	277.6	4.89	TAS	116.6	1.12	m_e	mb	5.9
TNS	84.81	P	21:08:49.387	0.0	277.6	4.89	TAS	140.7	1.19	m_e	MBB	6.4
WET	87.81	P	21:09:04.379	-0.4	277.6	4.89	TAS	87.1	0.95	m_e	MBB	6.4
WLF	83.39	P	21:08:42.452	0.3	277.6	4.89	TAS	125.0	1.00	m_e	MBB	6.4

Event 10717005 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/17	21:31:22.41			27.5890	-43.0830				35.1				21	43.37	48.15	m i ke	BGR
OrigID 10717011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	10717011
Ms	5.2		BGR	10717011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude		
ASSE	46.65		P	21:39:46.308	-1.4	262.5		7.84		TAS		47.7	1.80	m_e	mb	5.3	
BFO	44.55		P	21:39:28.990		262.5		7.84		TAS		19.0	1.07	m_e	mb	5.0	
BSEG	46.79		P	21:39:45.989	0.7	262.5		7.84		TAS		32.3	1.28	m_e	mb	5.3	
BUG	44.45		P	21:39:27.346	-0.3	262.5		7.84		TAS		4.8	1.33	m_e	mb	4.1	
CLL	47.96		P	21:39:55.297	0.0	262.5		7.84		TAS		49.4	2.12	m_e	mb	5.3	
CLZ	46.42		P	21:39:44.568	-1.2	262.5		7.84		TAS		16.1	1.43	m_e	mb	4.8	
FLT1	47.03		P	21:39:48.076	4.7	262.5		7.84		TAS		91.1	2.46	m_e	mb	5.5	
FUR	46.48		P	21:39:46.287		262.5		7.84		TAS		52.5	1.83	m_e	mb	5.3	
GEC2	48.15		P	21:39:57.092		262.5		7.84		TAS		80.6	2.12	m_e	mb	5.5	
GOR1	47.19		P	21:39:49.758	-1.0	262.5		7.84		TAS		101.7	2.10	m_e	mb	5.6	
GRA1	46.62		P	21:39:47.204	1.4	262.5		7.84		TAS		12.6	0.92	m_e	mb	5.0	
GRA1	46.62		L	21:56:05.096						T__		2337.8	19.40	a_e	Ms	5.2	
GTTG	46.12		P	21:39:46.658	0.1	262.5		7.84		TAS		24.7	1.31	m_e	mb	5.1	
IBBN	44.93		P	21:39:31.347	0.3	262.5		7.84		TAS		8.0	0.95	m_e	mb	4.6	
MOX	47.00		P	21:39:49.207	1.0	262.5		7.84		TAS		50.5	2.24	m_e	mb	5.2	
MOX	47.00		L	21:56:08.272						T__		2490.7	19.50	a_e	Ms	5.2	
PLN	47.32		P	21:39:51.313	-0.9	262.5		7.84		TAS		8.8	1.76	m_e	mb	4.6	
RETH	45.98		P	21:39:41.146	-0.9	262.5		7.84		TAS		63.7	1.88	m_e	mb	5.3	
STU	45.18		P	21:39:35.146		262.5		7.84		TAS		31.7	1.00	m_e	mb	5.2	
STU	45.18		pP	21:39:44.578						T__				m_e			
TANN	47.51		P	21:39:53.090	-1.0	262.5		7.84		TAS		52.1	2.12	m_e	mb	5.3	

TNS	44.94	P	21:39:32.336	0.3	262.5	7.84	TAS	72.6	2.07	m_e	mb	5.2
WET	47.64	P	21:39:53.206		262.5	7.84	TAS	47.9	1.95	m_e	mb	5.3
WLF	43.37	P	21:39:20.463	-0.8	262.5	7.84	TAS	83.2	2.04	m_e	mb	5.1

Event 10718001 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/18	14:34:43.48			30.4160	48.0000				33.0			24		31.82	36.76	m i ke	BGR
OrigID 10718007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	10718007
MBB	5.8		BGR	10718007
Ms	4.8		BGR	10718007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	34.89		P	14:41:30.762	0.2	111.1		8.68		TAS		382.6	2.40	m_e	MBB 6.0
BFO	35.02		P	14:41:32.581		111.1		8.68		TAS		13.1	1.10	m_e	MBB 5.5
BSEG	35.84		P	14:41:38.326	0.5	111.1		8.68		TAS		251.5	2.09	m_e	MBB 5.8
BUG	36.61		P	14:41:46.142	0.1	111.1		8.68		TAS		116.6	2.00	m_e	MBB 5.3
CLL	33.23		P	14:41:16.332	0.1	111.1		8.68		TAS		55.8	1.14	m_e	MBB 5.8
CLZ	34.95		P	14:41:31.672	-0.2	111.1		8.68		TAS		282.6	1.65	m_e	MBB 6.1
FLT1	34.66		P	14:41:28.794	0.0	111.1		8.68		TAS		370.3	1.83	m_e	MBB 6.2
FUR	33.09		P	14:41:16.343		111.1		8.68		TAS		1654.9	2.71	m_e	MBB 6.2
GEC2	31.82		P	14:41:05.073	0.5	111.1		8.68		TAS		90.0	1.84	m_e	MBB 5.8
GOR1	34.90		P	14:41:31.004	-0.2	111.1		8.68		TAS		585.8	1.97	m_e	MBB 6.3
GRA1	33.64		P	14:41:21.075	0.3	111.1		8.68		TAS		189.4	1.54	m_e	mb 5.8
GRA1	33.64		L	14:58:01.737						T__		1667.7	20.80	a_e	Ms 4.7
GTTG	35.07		P	14:41:32.979	-0.3	111.1		8.68		TAS		154.3	1.59	m_e	MBB 5.9
IBBN	36.62		P	14:41:46.356	-0.2	111.1		8.68		TAS		458.6	1.77	m_e	MBB 6.1
KAST	35.85		P	14:41:39.868	-0.3	111.1		8.68		TAS		310.4	1.89	m_e	MBB 5.7
MOX	33.76		P	14:41:21.282	-0.3	111.1		8.68		TAS		42.5	1.20	m_e	MBB 5.5
MOX	33.76		L	14:59:39.949						T__		2233.6	18.80	a_e	Ms 4.9
NEUB	33.89		P	14:41:22.611	-0.2	111.1		8.68		TAS		57.8	0.88	m_e	MBB 5.8
PLN	33.38		P	14:41:18.053	-0.1	111.1		8.68		TAS		20.4	1.75	m_e	MBB 5.2
RETH	35.87		P	14:41:39.862	0.1	111.1		8.68		TAS		598.2	2.17	m_e	MBB 6.2
RUE	33.33		P	14:41:16.530	-0.0	111.1		8.68		TAS		74.7	1.19	m_e	MBB 6.1
STU	34.59		P	14:41:28.264	0.8	111.1		8.68		TAS		354.7	2.43	m_e	MBB 6.0
TANN	33.18		P	14:41:16.153	-0.6	111.1		8.68		TAS		126.7	1.99	m_e	MBB 5.7
TNS	35.51		P	14:41:36.697	0.4	111.1		8.68		TAS		189.3	1.86	m_e	MBB 5.8
WET	32.44		P	14:41:09.735	-0.4	111.1		8.68		TAS		147.0	2.10	m_e	MBB 5.7
WLF	36.76		P	14:41:46.971	-0.4	111.1		8.68		TAS		26.4	0.86	m_e	MBB 5.5

Event 10719004 New Britain, Papua New Guinea, region
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2021/07/19 23:02:08.30 -5.0100 152.2000 32.0 24 122.19 127.03 m i ke EMSC
 10719036

Magnitude Err Nsta Author OrigID
 Ms 5.3 BGR 10719010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	123.26		PKPdf	23:21:01.030	-0.5	49.7		2.00		TAS				m_e	
BFO	126.94		PKPdf	23:21:07.807		49.7		2.00		TAS				m_e	
BRG	122.52		PKPdf	23:20:59.952	-0.2	49.7		2.00		TAS				m_e	
BSEG	122.19		PKPdf	23:20:59.952	0.0	49.7		2.00		TAS				m_e	
BUG	125.26		PKPdf	23:21:05.189	-0.4	49.7		2.00		TAS				m_e	
CLL	122.71		PKPdf	23:20:59.798	-0.0	49.7		2.00		TAS				m_e	
CLZ	123.59		PKPdf	23:21:02.878	-0.6	49.7		2.00		TAS				m_e	
FLT1	122.87		PKPdf	23:21:00.876	-0.2	49.7		2.00		TAS				m_e	
FUR	125.57		PKPdf	23:21:06.269		49.7		2.00		TAS				m_e	
GEC2	123.89		PKPdf	23:21:03.061	0.2	49.7		2.00		TAS				m_e	
GOR1	122.40		PKPdf	23:21:00.106	0.1	49.7		2.00		TAS				m_e	
GRA1	124.62		PKPdf	23:21:04.687	-0.2	49.7		2.00		TAS				m_e	
GRA1	124.62		L	00:16:47.026						T__		711.6	21.40	a_e Ms	5.3
GTTG	123.98		PKPdf	23:21:02.878	0.1	49.7		2.00		TAS				m_e	
IBBN	124.43		PKPdf	23:21:04.265	0.6	49.7		2.00		TAS				m_e	
KAST	124.92		PKPdf	23:21:05.035	-0.2	49.7		2.00		TAS				m_e	
MOX	123.80		PKPdf	23:21:02.416	0.4	49.7		2.00		TAS				m_e	
MOX	123.80		L	00:16:44.305						T__		682.8	21.80	a_e Ms	5.3
NEUB	123.37		PKPdf	23:21:01.338	0.0	49.7		2.00		TAS				m_e	
PLN	123.64		PKPdf	23:21:02.262	0.7	49.7		2.00		TAS				m_e	
RETH	123.43		PKPdf	23:21:02.108	0.0	49.7		2.00		TAS				m_e	
STU	126.22		PKPdf	23:21:07.191		49.7		2.00		TAS				m_e	
TANN	123.54		PKPdf	23:21:01.800	0.5	49.7		2.00		TAS				m_e	
TNS	125.58		PKPdf	23:21:06.609	0.4	49.7		2.00		TAS				m_e	
WET	124.13		PKPdf	23:21:03.599	-1.0	49.7		2.00		TAS				m_e	
WLF	127.03		PKPdf	23:21:09.891	0.4	49.7		2.00		TAS				m_e	

Event 10720006 Mindanao, Philippine Islands
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2021/07/20 20:26:46.30 5.6200 126.7500 89.0 19 99.22 104.76 m i ke EMSC
 10720038

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
-----	------	------	-------	------	------	------	-------	------	------	-----	-----	-----	-----	------	-----------

ASSE	101.11	Pdiff	20:40:27.736	-0.2	66.8	4.54	TAS	m_e
BSEG	100.54	Pdiff	20:40:24.944	0.2	66.8	4.54	TAS	m_e
BUG	103.31	Pdiff	20:40:36.810		66.8	4.54	TAS	m_e
CLL	100.11	Pdiff	20:40:21.686	-1.1	66.8	4.54	TAS	m_e
CLZ	101.39	Pdiff	20:40:28.389	-0.1	66.8	4.54	TAS	m_e
FLT1	100.71	Pdiff	20:40:25.409	-0.6	66.8	4.54	TAS	m_e
GEC2	100.61	Pdiff	20:40:24.927	-0.9	66.8	4.54	TAS	m_e
GOR1	100.40	Pdiff	20:40:24.557	-0.7	66.8	4.54	TAS	m_e
IBBN	102.64	Pdiff	20:40:34.159		66.8	4.54	TAS	m_e
KAST	102.77	Pdiff	20:40:34.506		66.8	4.54	TAS	m_e
MOX	101.17	Pdiff	20:40:27.409	-0.4	66.8	4.54	TAS	m_e
NEUB	100.86	Pdiff	20:40:25.176	0.0	66.8	4.54	TAS	m_e
RETH	101.58	Pdiff	20:40:29.216	0.0	66.8	4.54	TAS	m_e
RUE	99.22	Pdiff	20:40:18.894	6.2	66.8	4.54	TAS	m_e
TANN	100.77	Pdiff	20:40:25.465	0.1	66.8	4.54	TAS	m_e
TNS	103.19	Pdiff	20:40:37.275		66.8	4.54	TAS	m_e
WET	101.00	Pdiff	20:40:26.888	-1.5	66.8	4.54	TAS	m_e
WLF	104.76	Pdiff	20:40:43.790		66.8	4.54	TAS	m_e

Event 10721002 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/20	23:54:26.10			29.3200	70.1000				10.0			23		46.74	51.70	m i ke	EMSC
	10721034																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	10721008
Ms	4.3		BGR	10721008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	48.88		P	00:03:12.500	-0.5	92.1		7.21		TAS		46.5	1.76	m_e	mb 5.2
BFO	50.30		P	00:03:22.370		92.1		7.21		TAS		18.4	1.06	m_e	mb 4.9
BRG	46.74		P	00:03:03.540	-0.6	92.1		7.21		TAS		18.6	1.13	m_e	mb 5.1
BSEG	49.23		P	00:03:15.273	0.2	92.1		7.21		TAS		77.9	1.45	m_e	mb 5.5
BUG	50.96		P	00:03:27.654	-0.8	92.1		7.21		TAS		16.9	1.38	m_e	mb 4.8
CLL	47.37		P	00:03:00.775	5.9	92.1		7.21		TAS		9.4	1.13	m_e	mb 4.8
CLZ	49.04		P	00:03:14.068	-1.4	92.1		7.21		TAS		54.1	1.46	m_e	mb 5.4
FLT1	48.54		P	00:03:09.516	0.2	92.1		7.21		TAS		20.2	1.06	m_e	mb 5.1
FUR	48.34		P	00:03:08.170		92.1		7.21		TAS		21.6	1.08	m_e	mb 5.2
GEC2	46.75		P	00:02:55.424		92.1		7.21		TAS		22.4	1.26	m_e	mb 5.2
GOR1	48.55		P	00:03:10.785	-0.0	92.1		7.21		TAS		55.9	1.44	m_e	mb 5.4
GRA1	48.41		P	00:03:09.283	-1.1	92.1		7.21		TAS		43.9	1.14	m_e	mb 5.5
GRA1	48.41		L	00:26:03.640						T_		401.0	21.20	a_e	Ms 4.4
GTTG	49.28		P	00:03:16.248	0.3	92.1		7.21		TAS		32.3	1.25	m_e	mb 5.2
IBBN	50.67		P	00:03:26.077	-0.3	92.1		7.21		TAS		53.2	1.14	m_e	mb 5.4
KAST	50.24		P	00:03:23.238	-0.3	92.1		7.21		TAS		7.1	1.04	m_e	mb 4.5

MOX	48.20	P	00:03:07.821	1.0	92.1	7.21	TAS	62.8	1.53	m_e	mb	5.5
MOX	48.20	L	00:25:28.130				T__	310.6	20.60	a_e	Ms	4.3
NEUB	48.13	P	00:03:06.924	-0.7	92.1	7.21	TAS	50.5	1.50	m_e	mb	5.4
PLN	47.84	P	00:03:04.779	1.5	92.1	7.21	TAS	13.4	1.51	m_e	mb	4.8
RETH	49.71	P	00:03:19.355	-1.2	92.1	7.21	TAS	56.9	1.70	m_e	mb	5.2
STU	49.72	P	00:03:18.987		92.1	7.21	TAS	245.3	1.74	m_e	mb	5.8
TANN	47.65	P	00:03:03.508	-0.1	92.1	7.21	TAS	39.2	1.62	m_e	mb	5.3
TNS	50.21	P	00:03:23.434	-1.7	92.1	7.21	TAS	25.2	1.40	m_e	mb	5.0
WLF	51.70	P	00:03:34.576	0.5	92.1	7.21	TAS	55.5	1.42	m_e	mb	5.3

Event 10721004 Near north coast of Colombia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/21	21:15:51.66			7.3680	-82.8620				18.7			25		83.81	88.81	m i ke	EMSC
10721040																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.1		BGR	10721010
MBB	6.5		BGR	10721010
Ms	6.7		BGR	10721010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	86.40		P	21:27:58.775	-2.7	273.7		5.38		TAS		378.5	1.84	m_e	MBB 6.6
BFO	85.35		P	21:27:53.114	-0.2	273.7		5.38		TAS		74.4	1.47	m_e	MBB 6.5
BRG	88.61		P	21:28:14.467		273.7		5.38		TAS		191.2	1.58	m_e	MBB 6.5
BSEG	85.96		P	21:27:58.959	0.9	273.7		5.38		TAS		382.6	1.71	m_e	MBB 6.6
BUG	84.38		P	21:27:48.797	0.7	273.7		5.38		TAS		34.2	1.22	m_e	MBB 6.2
CLL	87.96		P	21:28:05.994	1.0	273.7		5.38		TAS		336.8	1.73	m_e	MBB 6.6
CLZ	86.26		P	21:27:58.712	-0.6	273.7		5.38		TAS		235.0	1.61	m_e	MBB 6.5
FLT1	86.72		P	21:27:58.993	-2.8	273.7		5.38		TAS		322.6	1.73	m_e	MBB 6.4
GEC2	88.81		P	21:28:11.062		273.7		5.38		TAS		212.4	1.69	m_e	MBB 6.4
GOR1	86.67		P	21:27:58.494	-2.2	273.7		5.38		TAS		255.6	1.66	m_e	MBB 6.6
GRA1	87.08		P	21:27:59.192	-0.9	273.7		5.38		TAS		290.7	1.65	m_e	mb 6.2
GRA1	87.08		L	22:01:24.351						T__	31937.9	21.20	a_e	Ms 6.7	
GTTG	86.04		P	21:27:58.108	0.3	273.7		5.38		TAS		323.5	1.84	m_e	MBB 6.4
IBBN	84.60		P	21:27:49.800	-0.7	273.7		5.38		TAS		262.5	1.70	m_e	MBB 6.7
KAST	85.12		P	21:27:51.352	-0.3	273.7		5.38		TAS		111.6	1.51	m_e	MBB 6.5
MOX	87.19		P	21:28:02.164	2.3	273.7		5.38		TAS		309.5	1.93	m_e	MBB 6.3
MOX	87.19		L	22:02:01.339						T__	30807.6	21.00	a_e	Ms 6.7	
NEUB	87.21		P	21:28:05.687	-1.4	273.7		5.38		TAS		333.0	1.74	m_e	MBB 6.6
PLN	87.56		P	21:28:03.534	-0.4	273.7		5.38		TAS		99.4	1.73	m_e	MBB 6.1
RETH	85.53		P	21:27:54.627	1.0	273.7		5.38		TAS		438.1	1.72	m_e	MBB 6.6
RGN	87.62		P	21:28:04.295	-1.5	273.7		5.38		TAS		493.0	1.41	m_e	MBB 6.8
RUE	88.24		P	21:28:10.482	-0.1	273.7		5.38		TAS		243.4	1.59	m_e	MBB 6.6
STU	85.88		P	21:27:56.174	1.3	273.7		5.38		TAS		632.3	1.63	m_e	mb 6.5
TANN	87.76		P	21:28:05.648	-0.1	273.7		5.38		TAS		227.7	1.57	m_e	MBB 6.6

./bul2107.txt

Wed Jan 11 09:16:11 2023

43

TNS	85.24	P	21:27:51.929	1.0	273.7	5.38	TAS	278.6	1.78	m_e	MBB	6.5
WET	88.23	P	21:28:07.979	3.6	273.7	5.38	TAS	243.6	1.46	m_e	MBB	6.7
WLF	83.81	P	21:27:44.832	0.5	273.7	5.38	TAS	158.7	1.38	m_e	MBB	6.5

Event 10722004 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/22	14:16:26.20			36.4000	27.0200				3.0			23		15.80	21.02	m i ke	EMSC
OrigID 10722036																	

Magnitude	Err	Nsta	Author	OrigID
Ms	3.4		BGR	10722010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	19.52		P	14:20:54.733	-0.7	133.3		10.65		TAS				m_e	
BFO	18.18		P	14:20:42.092		133.3		10.65		TAS				m_e	
BRG	17.24		P	14:20:38.887	-0.8	133.3		10.65		TAS				m_e	
BSEG	21.02		P	14:21:12.546	-0.4	133.3		10.65		TAS				m_e	
BUG	20.59		P	14:21:06.805	8.0	133.3		10.65		TAS				m_e	
CLL	17.95		P	14:20:39.178	0.5	133.3		10.65		TAS				m_e	
CLZ	19.44		P	14:20:53.965	0.6	133.3		10.65		TAS				m_e	
FLT1	19.44		P	14:20:53.496	-0.7	133.3		10.65		TAS				m_e	
FUR	16.51		P	14:20:24.934		133.3		10.65		TAS				m_e	
GEC2	15.80		P	14:20:14.327		133.3		10.65		TAS				m_e	
GOR1	19.91		P	14:20:58.608	0.4	133.3		10.65		TAS				m_e	
GRA1	17.54		P	14:20:33.926	1.9	133.3		10.65		TAS				m_e	
GRA1	17.54		L	14:27:28.561						T__		188.9	19.90	a_e Ms	3.3
GTTG	19.41		P	14:20:54.271	-1.5	133.3		10.65		TAS				m_e	
IBBN	20.92		P	14:21:11.612	-1.1	133.3		10.65		TAS				m_e	
KAST	19.89		P	14:20:58.599	-1.6	133.3		10.65		TAS				m_e	
MOX	18.04		P	14:20:40.720	1.4	133.3		10.65		TAS				m_e	
MOX	18.04		L	14:28:05.527						T__		200.8	21.00	a_e Ms	3.4
PLN	17.68		P	14:20:34.880	-1.2	133.3		10.65		TAS				m_e	
RETH	20.52		P	14:21:06.091	-1.1	133.3		10.65		TAS				m_e	
STU	17.97		P	14:20:40.476		133.3		10.65		TAS				m_e	
TANN	17.50		P	14:20:33.443	-4.1	133.3		10.65		TAS				m_e	
TNS	19.24		P	14:20:52.216	-2.2	133.3		10.65		TAS				m_e	
WET	16.39		P	14:20:18.742	1.4	133.3		10.65		TAS				m_e	
WLF	20.11		P	14:21:02.389	1.7	133.3		10.65		TAS				m_e	

Event 10723001 Tonga Islands

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

OrigID

2021/07/23 01:16:36.84 -16.4390 -173.8870 33.0 15 144.42 148.05 m i ke BGR
10723007

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.05		PKPbc	01:36:18.846	-0.3	8.9		2.99		TAS				m_e	
BUG	144.97		PKPbc	01:36:09.755	-0.0	8.9		2.99		TAS				m_e	
CLL	144.69		PKPbc	01:36:08.630	-0.2	8.9		2.99		TAS				m_e	
CLZ	144.42		PKPbc	01:36:07.941	0.0	8.9		2.99		TAS				m_e	
FUR	147.98		PKPbc	01:36:18.347		8.9		2.99		TAS				m_e	
GEC2	147.00		PKPbc	01:36:15.787	0.0	8.9		2.99		TAS				m_e	
GRA1	146.48		PKPbc	01:36:14.152	0.2	8.9		2.99		TAS				m_e	
GTTG	144.75		PKPbc	01:36:08.861	-0.1	8.9		2.99		TAS				m_e	
KAST	145.18		PKPbc	01:36:10.088	-0.0	8.9		2.99		TAS				m_e	
MOX	145.50		PKPbc	01:36:11.078	0.1	8.9		2.99		TAS				m_e	
NEUB	144.94		PKPbc	01:36:09.433	-0.0	8.9		2.99		TAS				m_e	
STU	147.56		PKPbc	01:36:17.357	-0.1	8.9		2.99		TAS				m_e	
TANN	145.63		PKPbc	01:36:11.638	0.1	8.9		2.99		TAS				m_e	
TNS	146.15		PKPbc	01:36:13.333	0.2	8.9		2.99		TAS				m_e	
WET	146.82		PKPbc	01:36:15.308	0.1	8.9		2.99		TAS				m_e	
WLF	146.76		PKPbc	01:36:15.559	0.2	8.9		2.99		TAS				m_e	

Event 10723002 Svalbard, Norway, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/23	04:06:10.35			77.1970	5.7820				10.0					27.65	27.65	m i ke	BGR

OrigID
10723008

Magnitude Err Nsta Author OrigID

mb	4.5		BGR	10723008
Ms	4.0		BGR	10723008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	27.65		P	04:11:54.892		356.8		8.85		TAS		9.5	1.07	m_e mb	4.5
GRA1	27.65		L	04:23:36.690						T__		369.9	19.70	a_e Ms	4.0

Event 10723004 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2021/07/23	20:48:21.67			8.9840	124.2220				124.0					12	94.51	100.58	m i ke	BGR

OrigID
10723010

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	10723010
MBB	7.4		BGR	10723010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	96.93		P	21:01:49.212	0.0	66.5		4.48		TAS		18.2	1.30	m_e	MBB 7.5
BFO	99.90		P	21:02:02.298	0.1	66.5		4.48		TAS		7.7	1.03	m_e	MBB 7.3
BFO	99.90		pP	21:02:35.277		66.7		4.59		TAS				m_e	
BSEG	96.37		P	21:01:46.246		66.5		4.48		TAS		9.1	0.83	m_e	MBB 7.2
BSEG	96.37		pP	21:02:19.422		66.7		4.59		TAS				m_e	
BUG	99.13		P	21:01:58.964		66.5		4.48		TAS		3.1	0.98	m_e	MBB 7.0
BUG	99.13		pP	21:02:32.139		66.7		4.59		TAS				m_e	
CLL	95.93		P	21:01:44.229	0.3	66.5		4.48		TAS		5.8	0.81	m_e	MBB 7.3
CLL	95.93		pP	21:02:17.222		66.7		4.59		TAS				m_e	
CLZ	97.22		P	21:01:50.478	0.1	66.5		4.48		TAS		8.0	0.94	m_e	MBB 7.5
FLT1	96.53		P	21:01:46.852	-0.4	66.5		4.48		TAS		4.2	0.81	m_e	MBB 7.3
FUR	98.18		P	21:01:54.223		66.5		4.48		TAS		5.8	0.70	m_e	MBB 7.8
GEC2	96.43		P	21:01:47.049		66.5		4.48		TAS		8.6	0.89	m_e	MBB 7.3
GRA1	97.60		P	21:01:52.490		66.5		4.48		TAS		6.9	0.86	m_e	MBB 7.7
GTTG	97.57		P	21:01:52.163	-0.1	66.5		4.48		TAS		8.5	0.92	m_e	MBB 7.6
IBBN	98.47		P	21:01:55.736		66.5		4.48		TAS		13.5	0.90	m_e	MBB 7.6
KAST	98.59		P	21:01:56.751		66.5		4.48		TAS		4.5	0.94	m_e	MBB 7.5
MOX	96.99		P	21:01:49.409		66.5		4.48		TAS		7.1	0.96	m_e	MBB 7.4
NEUB	96.68		P	21:01:48.128		66.5		4.48		TAS		21.8	1.12	m_e	MBB 7.5
NEUB	96.68		pP	21:02:20.648		66.7		4.59		TAS				m_e	
RGN	94.51		P	21:01:37.829		66.5		4.48		TAS		18.2	1.00	m_e	MBB 7.3
RUE	95.04		P	21:01:40.394		66.5		4.48		TAS		24.5	0.91	m_e	MBB 7.4
STU	99.19		P	21:01:58.842	0.1	66.5		4.48		TAS		31.8	0.82	m_e	MBB 7.9
STU	99.19		pP	21:02:32.410		66.7		4.59		TAS				m_e	
TANN	96.58		P	21:01:47.639		66.5		4.48		TAS		7.6	1.02	m_e	MBB 7.4
TNS	99.01		P	21:01:58.326		66.5		4.48		TAS		9.5	1.09	m_e	MBB 7.5
WET	96.82		P	21:01:48.884		66.5		4.48		TAS		4.5	0.81	m_e	MBB 7.5
WLF	100.58		P	21:02:06.019	0.1	66.5		4.48		TAS		14.3	1.04	m_e	MBB 7.3
WLF	100.58		pP	21:02:38.539		66.7		4.59		TAS				m_e	

Event 10723005 Central Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/23	22:52:26.70			39.3800	15.0000				272.0					10.65	10.65	m i ke	emsc
				10723041													

Magnitude	Err	Nsta	Author	OrigID
GRA1	10.65		P	22:54:53.575

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	10.65		P	22:54:53.575		160.8		12.72		TAS		15.0	0.83	m_e	

Event 10724002 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/24	02:07:38.10			35.1310	25.2260				10.0					17.80	17.80	m i ke	emsc
OrigID 10724038																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	10724008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	17.80		P	02:11:47.258		131.5		11.54		TAS		21.3	1.05	m_e mb	4.2

Event 10724004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/24	03:09:12.18			-18.2110	-175.7070				33.0				13	143.95	149.69	m i ke	BGR
OrigID 10724010																	

Magnitude	Err	Nsta	Author	OrigID
-----------	-----	------	--------	--------

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.69		PKPbc	03:28:47.420	0.3	12.5		2.78		TAS				m_e	
BFO	149.69		PKPbc	03:28:58.376		12.5		2.78		TAS				m_e	
BSEG	143.95		PKPbc	03:28:42.389	-0.4	12.5		2.78		TAS				m_e	
BUG	146.67		PKPbc	03:28:50.618	0.3	12.5		2.78		TAS				m_e	
CLL	146.17		PKPbc	03:28:48.928	-0.0	12.5		2.78		TAS				m_e	
CLZ	146.01		PKPbc	03:28:48.414	0.3	12.5		2.78		TAS				m_e	
FLT1	145.43		PKPbc	03:28:46.731	0.2	12.5		2.78		TAS				m_e	
FUR	149.50		PKPbc	03:28:57.550		12.5		2.78		TAS				m_e	
GEC2	148.42		PKPbc	03:28:54.954		12.5		2.78		TAS				m_e	
GRA1	148.01		PKPbc	03:28:53.932		12.5		2.78		TAS				m_e	
GTTG	146.35		PKPbc	03:28:49.319	0.3	12.5		2.78		TAS				m_e	
IBBN	145.78		PKPbc	03:28:47.956	0.3	12.5		2.78		TAS				m_e	
KAST	146.83		PKPbc	03:28:51.196	0.3	12.5		2.78		TAS				m_e	
MOX	147.03		PKPbc	03:28:50.992	-0.1	12.5		2.78		TAS				m_e	
NEUB	146.47		PKPbc	03:28:49.699	0.3	12.5		2.78		TAS				m_e	
RUE	144.92		PKPbc	03:28:45.132	-0.3	12.5		2.78		TAS				m_e	
STU	149.16		PKPbc	03:28:57.032		12.5		2.78		TAS				m_e	
TANN	147.12		PKPbc	03:28:51.481		12.5		2.78		TAS				m_e	
TNS	147.80		PKPbc	03:28:53.663	-0.1	12.5		2.78		TAS				m_e	
WET	148.28		PKPbc	03:28:54.563	-0.1	12.5		2.78		TAS				m_e	
WLF	148.49		PKPbc	03:28:55.930	-0.1	12.5		2.78		TAS				m_e	

Event 10724007 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/24	16:36:33.31			-22.2300	172.2760				33.0			14		145.45	150.91	m i ke	BGR
OrigID 10724013																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.89		PKPbc	16:56:12.351	0.3	35.4		2.70		TAS					m_e
BFO	150.91		PKPbc	16:56:22.896		35.4		2.70		TAS					m_e
BSEG	145.45		PKPbc	16:56:08.493	-0.5	35.4		2.70		TAS					m_e
BUG	148.53		PKPbc	16:56:17.324	0.0	35.4		2.70		TAS					m_e
CLL	146.75		PKPbc	16:56:12.094	0.5	35.4		2.70		TAS					m_e
CLZ	147.23		PKPbc	16:56:13.277	-0.1	35.4		2.70		TAS					m_e
FLT1	146.53		PKPbc	16:56:11.321	0.4	35.4		2.70		TAS					m_e
GEC2	148.41		PKPbc	16:56:16.617		35.4		2.70		TAS					m_e
GTTG	147.62		PKPbc	16:56:14.505	0.0	35.4		2.70		TAS					m_e
IBBN	147.62		PKPbc	16:56:14.701	0.4	35.4		2.70		TAS					m_e
KAST	148.40		PKPbc	16:56:16.831	0.0	35.4		2.70		TAS					m_e
MOX	147.80		PKPbc	16:56:14.772	-0.1	35.4		2.70		TAS					m_e
NEUB	147.29		PKPbc	16:56:13.474	0.0	35.4		2.70		TAS					m_e
RUE	145.53		PKPbc	16:56:08.404	-0.5	35.4		2.70		TAS					m_e
STU	150.23		PKPbc	16:56:21.535		35.4		2.70		TAS					m_e
TANN	147.68		PKPbc	16:56:14.537	-0.1	35.4		2.70		TAS					m_e
TNS	149.25		PKPbc	16:56:19.191	-0.6	35.4		2.70		TAS					m_e
WET	148.52		PKPbc	16:56:17.012		35.4		2.70		TAS					m_e
WLF	150.44		PKPbc	16:56:22.511		35.4		2.70		TAS					m_e

Event 10725001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/25	05:04:56.65			-17.2000	-178.6020				33.0			16		142.60	148.35	m i ke	BGR
OrigID 10725007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.35		PKPbc	05:24:39.416	-0.2	17.2		2.98		TAS					m_e
BSEG	142.60		PKPbc	05:24:22.356	-0.1	17.2		2.98		TAS					m_e
CLL	144.65		PKPbc	05:24:28.547	0.1	17.2		2.98		TAS					m_e
CLZ	144.62		PKPbc	05:24:28.412	-0.0	17.2		2.98		TAS					m_e
FLT1	144.01		PKPbc	05:24:26.648	0.1	17.2		2.98		TAS					m_e

FUR	147.99	PKPbc	05:24:38.195	-0.2	17.2	2.98	TAS	m_e
GEC2	146.81	PKPbc	05:24:35.071	0.1	17.2	2.98	TAS	m_e
GRA1	146.54	PKPbc	05:24:34.155	0.0	17.2	2.98	TAS	m_e
GTTG	144.97	PKPbc	05:24:29.649	0.1	17.2	2.98	TAS	m_e
IBBN	144.52	PKPbc	05:24:28.296	-0.1	17.2	2.98	TAS	m_e
KAST	145.53	PKPbc	05:24:31.276	0.0	17.2	2.98	TAS	m_e
MOX	145.56	PKPbc	05:24:31.278	0.1	17.2	2.98	TAS	m_e
TANN	145.61	PKPbc	05:24:31.201	-0.1	17.2	2.98	TAS	m_e
TNS	146.48	PKPbc	05:24:34.074	-0.0	17.2	2.98	TAS	m_e
WET	146.72	PKPbc	05:24:34.878	0.2	17.2	2.98	TAS	m_e
WLF	147.30	PKPbc	05:24:37.045	0.3	17.2	2.98	TAS	m_e

Event 10725006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/25	16:08:36.77			-18.9280	173.1220				33.0					145.99	145.99	m i ke	BGR
OrigID																	
10725012																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.99		PKPbc	16:28:12.618		25.4		3.96		TAS					m_e

Event 10725007 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/25	18:48:15.24			-15.9510	-173.9410				33.0				10	143.63	147.56	m i ke	BGR
OrigID																	
10725013																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	143.63		PKPbc	19:07:43.490	0.5	8.9		3.16		TAS					m_e
BFO	147.56		PKPbc	19:07:56.224		8.9		3.16		TAS					m_e
BUG	144.49		PKPbc	19:07:46.577	0.5	8.9		3.16		TAS					m_e
CLL	144.20		PKPbc	19:07:45.308	-0.0	8.9		3.16		TAS					m_e
CLZ	143.94		PKPbc	19:07:44.544	0.5	8.9		3.16		TAS					m_e
FUR	147.50		PKPbc	19:07:55.855		8.9		3.16		TAS					m_e
GEC2	146.51		PKPbc	19:07:52.945		8.9		3.16		TAS					m_e
GRA1	145.99		PKPbc	19:07:51.099		8.9		3.16		TAS					m_e
GTTG	144.26		PKPbc	19:07:45.424	0.5	8.9		3.16		TAS					m_e
MOX	145.01		PKPbc	19:07:47.946	-0.0	8.9		3.16		TAS					m_e
NEUB	144.45		PKPbc	19:07:46.040	0.5	8.9		3.16		TAS					m_e

./bul2107.txt

Wed Jan 11 09:16:11 2023

49

STU	147.07	PKPbc	19:07:54.628	8.9	3.16	TAS	m_e
TANN	145.14	PKPbc	19:07:48.514 -0.2	8.9	3.16	TAS	m_e
TNS	145.66	PKPbc	19:07:50.317 -0.3	8.9	3.16	TAS	m_e
WET	146.34	PKPbc	19:07:52.320	8.9	3.16	TAS	m_e
WLF	146.28	PKPbc	19:07:52.788	8.9	3.16	TAS	m_e

Event 10726001 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/26	00:13:08.67			39.2340	147.4040				33.0					83.28	83.28	m i ke	BGR
OrigID 10726007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	10726007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	83.28		P	00:25:31.305		26.4		4.03		TAS		5.9	0.98	m_e mb	4.8

Event 10726002 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/26	02:16:16.30			41.9080	142.4100				71.5	1.4		21		75.93	81.32	m i ke	BGR
OrigID 10726008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	10726008
MBB	5.8		BGR	10726008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	77.33		P	02:28:06.181	0.1	34.8		5.48		TAS		24.7	0.92	m_e MBB	5.8
ASSE	77.33		pP	02:28:25.561	0.2	37.5		5.84		TAS				m_e	
BFO	81.32		P	02:28:27.802	0.2	34.8		5.48		TAS		34.1	0.83	m_e MBB	5.8
BSEG	75.96		P	02:27:58.889	0.2	34.8		5.48		TAS		65.0	0.82	m_e MBB	6.0
BSEG	75.96		pP	02:28:17.866	0.2	37.5		5.84		TAS				m_e	
BUG	79.06		P	02:28:15.824	-0.0	34.8		5.48		TAS		14.3	0.87	m_e MBB	5.3
CLL	77.16		P	02:28:05.085	-0.4	34.8		5.48		TAS		50.5	0.84	m_e MBB	5.9
CLZ	77.67		P	02:28:08.566	0.4	34.8		5.48		TAS		50.9	0.79	m_e MBB	6.0
FLT1	76.96		P	02:28:03.846	-0.5	34.8		5.48		TAS		69.2	0.80	m_e MBB	6.0
FLT1	76.96		pP	02:28:23.392	0.2	37.5		5.84		TAS				m_e	
FUR	80.37		P	02:28:23.376		34.8		5.48		TAS		73.1	0.80	m_e MBB	5.9
GEC2	78.88		P	02:28:14.880	-0.0	34.8		5.48		TAS		19.9	0.88	m_e MBB	5.5
GRA1	79.13		P	02:28:16.859	0.1	34.8		5.48		TAS		75.3	0.82	m_e mb	5.8
GTTG	78.05		P	02:28:10.665	0.2	34.8		5.48		TAS		43.7	0.82	m_e MBB	5.9

IBBN	78.17	P	02:28:10.690	0.1	34.8	5.48	TAS	65.4	0.83	m_e	MBB	6.0
KAST	78.88	P	02:28:14.998	0.2	34.8	5.48	TAS	22.8	0.85	m_e	MBB	5.5
MOX	78.20	P	02:28:11.339	-0.1	34.8	5.48	TAS	28.4	1.01	m_e	MBB	5.7
NEUB	77.70	P	02:28:08.271	-0.1	34.8	5.48	TAS	60.5	0.83	m_e	MBB	6.0
RUE	75.93	P	02:27:58.594	-0.1	34.8	5.48	TAS	82.1	1.06	m_e	MBB	6.1
STU	80.64	P	02:28:24.379	-0.1	34.8	5.48	TAS	129.3	0.81	m_e	MBB	6.2
TANN	78.08	P	02:28:10.513	-0.3	34.8	5.48	TAS	8.4	0.89	m_e	MBB	5.6
TNS	79.69	P	02:28:19.395	-0.2	34.8	5.48	TAS	15.9	0.84	m_e	MBB	5.5
WET	78.95	P	02:28:15.775	0.0	34.8	5.48	TAS	36.6	0.87	m_e	MBB	5.7
WLF	80.95	P	02:28:25.914	0.2	34.8	5.48	TAS	19.8	0.82	m_e	MBB	5.7

Event 10726003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/26	06:29:28.29			-15.9750	-174.1720				33.0			11		143.38	147.57	m i ke	BGR
OrigID 10726009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	143.63		PKPbc	06:48:56.239	0.3	9.3		3.28		TAS					m_e
BFO	147.57		PKPbc	06:49:09.342		9.3		3.28		TAS					m_e
BUG	144.50		PKPbc	06:48:59.692	0.3	9.3		3.28		TAS					m_e
CLL	144.20		PKPbc	06:48:58.127	0.3	9.3		3.28		TAS					m_e
CLZ	143.94		PKPbc	06:48:57.366	0.3	9.3		3.28		TAS					m_e
FLT1	143.38		PKPbc	06:48:55.253	-0.4	9.3		3.28		TAS					m_e
FUR	147.49		PKPbc	06:49:08.779		9.3		3.28		TAS					m_e
GEC2	146.50		PKPbc	06:49:05.759		9.3		3.28		TAS					m_e
GRA1	145.99		PKPbc	06:49:04.145		9.3		3.28		TAS					m_e
GTTG	144.27		PKPbc	06:48:58.524	0.3	9.3		3.28		TAS					m_e
KAST	144.70		PKPbc	06:49:00.219	-0.2	9.3		3.28		TAS					m_e
MOX	145.01		PKPbc	06:49:01.049	0.2	9.3		3.28		TAS					m_e
NEUB	144.45		PKPbc	06:48:59.231	-0.2	9.3		3.28		TAS					m_e
STU	147.08		PKPbc	06:49:07.637		9.3		3.28		TAS					m_e
TANN	145.14		PKPbc	06:49:01.452	-0.8	9.3		3.28		TAS					m_e
TNS	145.68		PKPbc	06:49:03.500	0.1	9.3		3.28		TAS					m_e
WET	146.33		PKPbc	06:49:05.311		9.3		3.28		TAS					m_e
WLF	146.30		PKPbc	06:49:06.005		9.3		3.28		TAS					m_e

Event 10726004 Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/26	16:11:19.77			53.8440	156.7470				33.0			17		68.92	74.63	m i ke	BGR
OrigID																	

10726010

Magnitude Err Nsta Author OrigID
 mb 4.8 BGR 10726010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.63		P	16:22:54.227	0.8	20.5		5.96		TAS		4.4	0.75	m_e	mb 4.6
BSEG	68.92		P	16:22:20.712	-0.1	20.5		5.96		TAS		8.5	0.95	m_e	mb 5.0
BUG	71.90		P	16:22:38.363	-0.0	20.5		5.96		TAS		4.0	0.83	m_e	mb 4.6
CLL	70.79		P	16:22:31.932	-0.0	20.5		5.96		TAS		9.2	0.99	m_e	mb 4.9
CLZ	70.88		P	16:22:32.356	-0.1	20.5		5.96		TAS		10.0	0.87	m_e	mb 5.0
FLT1	70.23		P	16:22:28.544	-0.1	20.5		5.96		TAS		6.9	0.83	m_e	mb 4.8
FUR	74.13		P	16:22:52.691		20.5		5.96		TAS		10.9	0.71	m_e	mb 5.0
GEC2	72.91		P	16:22:44.395	-0.6	20.5		5.96		TAS		2.1	0.85	m_e	mb 4.3
GRA1	72.71		P	16:22:43.509	0.0	20.5		5.96		TAS		12.4	1.03	m_e	mb 5.0
GTTG	71.24		P	16:22:34.397	-0.2	20.5		5.96		TAS		4.9	0.84	m_e	mb 4.7
HLG	69.18		P	16:22:22.499	0.4	20.5		5.96		TAS		27.5	0.78	m_e	mb 5.5
IBBN	70.98		P	16:22:32.916	-0.0	20.5		5.96		TAS		11.0	0.73	m_e	mb 5.1
KAST	71.89		P	16:22:38.451	0.0	20.5		5.96		TAS		8.6	0.99	m_e	mb 4.8
MOX	71.72		P	16:22:37.408	-0.1	20.5		5.96		TAS		4.1	0.87	m_e	mb 4.6
TANN	71.75		P	16:22:37.536	0.2	20.5		5.96		TAS		1.6	0.94	m_e	mb 4.1
TNS	72.81		P	16:22:44.180	0.1	20.5		5.96		TAS		6.4	0.79	m_e	mb 4.8
WET	72.83		P	16:22:44.155	-0.2	20.5		5.96		TAS		5.9	0.92	m_e	mb 4.7

Event 10726005 Tonga Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2021/07/26 19:19:45.81 -22.6320 -175.9090 33.0 10 148.28 152.88 m i ke BGR
 10726011

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	150.03		PKPbc	19:39:33.755	0.1	14.3		2.34		TAS				m_e	
BSEG	148.31		PKPbc	19:39:29.336	-0.1	14.3		2.34		TAS				m_e	
BUG	151.05		PKPbc	19:39:36.209		14.3		2.34		TAS				m_e	
CLL	150.47		PKPbc	19:39:34.558	0.2	14.3		2.34		TAS				m_e	
CLZ	150.35		PKPbc	19:39:34.408	0.2	14.3		2.34		TAS				m_e	
FLT1	149.76		PKPbc	19:39:32.794	0.1	14.3		2.34		TAS				m_e	
GEC2	152.67		PKPbc	19:39:39.919		14.3		2.34		TAS				m_e	
GTTG	150.69		PKPbc	19:39:35.112	-0.1	14.3		2.34		TAS				m_e	
HLG	148.28		PKPbc	19:39:29.422		14.3		2.34		TAS				m_e	
IBBN	150.15		PKPbc	19:39:33.891		14.3		2.34		TAS				m_e	
KAST	151.19		PKPbc	19:39:36.532	-0.3	14.3		2.34		TAS				m_e	
MOX	151.34		PKPbc	19:39:36.637		14.3		2.34		TAS				m_e	
TANN	151.42		PKPbc	19:39:37.021		14.3		2.34		TAS				m_e	

TNS	152.16	PKPbc	19:39:38.726	14.3	2.34	TAS	m_e
WLF	152.88	PKPbc	19:39:40.977	14.3	2.34	TAS	m_e

Event 10726006 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/26	19:49:37.88			-23.5000	179.9660				33.0			10		148.54	153.35	m i ke	BGR
OrigID 10726012																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	150.18		PKPbc	20:09:25.958	0.2	22.7		2.34		TAS					m_e
BSEG	148.54		PKPbc	20:09:21.967	-0.1	22.7		2.34		TAS					m_e
BUG	151.46		PKPbc	20:09:28.944	0.0	22.7		2.34		TAS					m_e
CLL	150.40		PKPbc	20:09:26.291	0.0	22.7		2.34		TAS					m_e
CLZ	150.51		PKPbc	20:09:26.836	0.2	22.7		2.34		TAS					m_e
FLT1	149.87		PKPbc	20:09:24.826	0.1	22.7		2.34		TAS					m_e
GEC2	152.41		PKPbc	20:09:30.966		22.7		2.34		TAS					m_e
GTTG	150.88		PKPbc	20:09:27.488	0.0	22.7		2.34		TAS					m_e
IBBN	150.54		PKPbc	20:09:26.834	0.1	22.7		2.34		TAS					m_e
KAST	151.50		PKPbc	20:09:28.929	-0.2	22.7		2.34		TAS					m_e
MOX	151.35		PKPbc	20:09:28.317		22.7		2.34		TAS					m_e
NEUB	150.81		PKPbc	20:09:27.085	-0.2	22.7		2.34		TAS					m_e
TANN	151.35		PKPbc	20:09:28.535		22.7		2.34		TAS					m_e
TNS	152.43		PKPbc	20:09:31.184		22.7		2.34		TAS					m_e
WLF	153.35		PKPbc	20:09:33.734		22.7		2.34		TAS					m_e

Event 10727001 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/27	05:37:07.80			33.6040	138.9770				33.0					84.92	84.92	m i ke	BGR
OrigID 10727007																	

Magnitude Err Nsta Author OrigID
mb 5.3 BGR 10727007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.92		P	05:49:38.832		46.8		4.30		TAS		16.0	0.76	m_e mb	5.3

Event 10727003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/27	19:02:00.22			-20.6880	-174.5180				33.0				5	146.52	152.23	m i ke	BGR
OrigID 10727009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.23		PKPbc	19:21:52.785		11.0		2.50		TAS					m_e
BRG	149.06		PKPbc	19:21:44.713		11.0		2.50		TAS					m_e
BSEG	146.52		PKPbc	19:21:38.358	-0.1	11.0		2.50		TAS					m_e
CLL	148.79		PKPbc	19:21:44.028	-0.2	11.0		2.50		TAS					m_e
CLZ	148.58		PKPbc	19:21:43.558		11.0		2.50		TAS					m_e
FLT1	148.01		PKPbc	19:21:41.951		11.0		2.50		TAS					m_e
FUR	152.10		PKPbc	19:21:52.470		11.0		2.50		TAS					m_e
GEC2	151.06		PKPbc	19:21:49.680		11.0		2.50		TAS					m_e
GRA1	150.61		PKPbc	19:21:48.836		11.0		2.50		TAS					m_e
MOX	149.63		PKPbc	19:21:46.227		11.0		2.50		TAS					m_e
NEUB	149.07		PKPbc	19:21:44.580		11.0		2.50		TAS					m_e
TANN	149.74		PKPbc	19:21:46.584		11.0		2.50		TAS					m_e
TNS	150.34		PKPbc	19:21:48.381		11.0		2.50		TAS					m_e
WET	150.91		PKPbc	19:21:49.360		11.0		2.50		TAS					m_e
WLF	150.99		PKPbc	19:21:50.772		11.0		2.50		TAS					m_e

Event 10727004 Iceland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/27	22:12:18.02			64.0320	-18.0360				10.0				21	16.41	22.84	m i ke	BGR
OrigID 10727010																	

Magnitude Err Nsta Author OrigID

mb 4.7 BGR 10727010
Ms 4.2 BGR 10727010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	19.07		P	22:16:36.440	-0.8	323.6		10.76		TAS					m_e
BFO	21.24		P	22:17:00.304		323.6		10.76		TAS		37.1	1.10	m_e	mb 4.6
BRG	21.34		P	22:16:59.518	-0.6	323.6		10.76		TAS		42.0	1.09	m_e	mb 4.7
BSEG	17.58		P	22:16:17.181	0.5	323.6		10.76		TAS					m_e
BUG	18.29		P	22:16:29.133	-1.4	323.6		10.76		TAS		44.3	1.91	m_e	mb 4.3
CLL	20.63		P	22:16:51.798	-0.6	323.6		10.76		TAS		47.9	1.31	m_e	mb 4.7
CLZ	19.17		P	22:16:37.431	1.0	323.6		10.76		TAS		26.1	1.14	m_e	mb 4.4
FLT1	19.14		P	22:16:37.555	-0.5	323.6		10.76		TAS		50.2	1.45	m_e	mb 4.5
FUR	22.46		P	22:17:14.515	0.9	323.6		10.76		TAS		34.2	1.12	m_e	mb 4.7
GEC2	22.84		P	22:17:19.077	0.9	323.6		10.76		TAS		38.3	1.42	m_e	mb 4.7

GOR1	18.67	P	22:16:30.863	-2.0	323.6	10.76	TAS										m_e	
GRA1	21.19	P	22:17:00.645	1.6	323.6	10.76	TAS										m_e	
GRA1	21.19	L	22:26:30.915				T__			1025.8	18.80	a_e	Ms					4.2
GTTG	19.24	P	22:16:40.032	0.4	323.6	10.76	TAS			58.9	1.41	m_e	mb					4.6
HLG	16.41	P	22:16:06.049	-2.0	323.6	10.76	TAS			182.8	1.14	m_e	mb					5.1
KAST	18.91	P	22:16:35.016	-0.0	323.6	10.76	TAS			455.7	3.38	m_e	mb					5.1
MOX	20.59	P	22:16:52.954	-1.3	323.6	10.76	TAS			50.3	1.30	m_e	mb					4.7
MOX	20.59	L	22:25:05.791				T__			1281.6	21.50	a_e	Ms					4.3
NEUB	20.22	P	22:16:49.368	-1.2	323.6	10.76	TAS			1925.3	3.93	m_e	mb					5.7
PLN	20.93	P	22:16:55.865	0.2	323.6	10.76	TAS			23.7	1.27	m_e	mb					4.4
RETH	18.08	P	22:16:24.427	0.2	323.6	10.76	TAS			32.6	1.13	m_e	mb					4.4
RGN	18.39	P	22:16:26.211	4.6	323.6	10.76	TAS			195.9	1.31	m_e	mb					5.1
TANN	21.10	P	22:16:59.158	2.0	323.6	10.76	TAS			63.9	1.25	m_e	mb					4.8
TNS	19.71	P	22:16:45.961	0.4	323.6	10.76	TAS			34.4	1.34	m_e	mb					4.4
WET	22.28	P	22:17:13.452	-0.7	323.6	10.76	TAS			14.4	1.12	m_e	mb					4.3

Event 10728001 Turkmenistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/28	00:40:23.70			38.0010	53.3770				33.0			6		30.45	34.06	m i ke	BGR
10728007																	

Magnitude Err Nsta Author OrigID
mb 4.6 BGR 10728007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	30.56		P	00:46:33.909		95.1		8.76		TAS		8.9	0.78	m_e	mb	4.8
BSEG	33.29		P	00:46:55.970		95.1		8.76		TAS		4.3	0.71	m_e	mb	4.5
CLL	31.22		P	00:46:39.234	0.1	95.1		8.76		TAS		9.0	0.78	m_e	mb	4.8
CLZ	32.92		P	00:46:54.107		95.1		8.76		TAS		3.4	0.71	m_e	mb	4.4
FLT1	32.46		P	00:46:49.905	0.0	95.1		8.76		TAS		10.4	0.95	m_e	mb	4.7
FUR	32.01		P	00:46:46.352		95.1		8.76		TAS		9.6	0.77	m_e	mb	4.8
GEC2	30.45		P	00:46:32.709		95.1		8.76		TAS		7.0	0.75	m_e	mb	4.6
GRA1	32.15		P	00:46:47.936		95.1		8.76		TAS		6.0	0.80	m_e	mb	4.6
KAST	34.06		P	00:47:04.204		95.1		8.76		TAS		5.0	0.69	m_e	mb	4.6
MOX	31.99		P	00:46:46.624		95.1		8.76		TAS		11.2	0.71	m_e	mb	4.9
NEUB	31.96		P	00:46:46.262		95.1		8.76		TAS		36.9	0.77	m_e	mb	5.4
TANN	31.43		P	00:46:41.538		95.1		8.76		TAS		7.5	0.85	m_e	mb	4.6
TNS	33.97		P	00:47:03.838		95.1		8.76		TAS		3.3	0.78	m_e	mb	4.3
WET	31.02		P	00:46:37.398		95.1		8.76		TAS		1.8	0.84	m_e	mb	4.0

Event 10729001 Alaska Peninsula, United States

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

OrigID
 2021/07/29 06:15:44.93 54.6420 -160.3970 33.0 27 70.92 77.19 m i ke BGR
 10729007

Magnitude	Err	Nsta	Author	OrigID
mb	7.0		BGR	10729007
MBB	8.0		BGR	10729007
Ms	7.7		BGR	10729007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	73.21		P	06:27:10.901	-0.4	355.0		5.74		TAS		1965.7	1.31	m_e	MBB 8.0
BFO	76.83		P	06:27:31.695	-0.4	355.0		5.74		TAS		1031.8	1.34	m_e	MBB 7.9
BRG	74.62		P	06:27:19.230	-0.1	355.0		5.74		TAS		1374.8	1.26	m_e	MBB 7.8
BSEG	71.39		P	06:27:00.348	-0.5	355.0		5.74		TAS		2601.5	1.29	m_e	MBB 8.1
BUG	73.66		P	06:27:13.436	-0.4	355.0		5.74		TAS		625.6	1.11	m_e	MBB 7.5
CLL	74.15		P	06:27:16.045	-0.6	355.0		5.74		TAS		1716.6	1.35	m_e	MBB 7.8
CLZ	73.48		P	06:27:12.898	0.1	355.0		5.74		TAS		2597.2	1.22	m_e	MBB 8.0
FLT1	73.04		P	06:27:09.600	-0.7	355.0		5.74		TAS		2022.2	1.29	m_e	MBB 8.0
FUR	77.19		P	06:27:34.246	0.0	355.0		5.74		TAS		2033.9	1.45	m_e	MBB 8.0
GEC2	76.63		P	06:27:31.381	0.4	355.0		5.74		TAS		856.8	1.25	m_e	MBB 7.9
GOR1	72.39		P	06:27:06.654	0.1	355.0		5.74		TAS		83233.4	4.32	m_e	MBB 8.2
GRA1	75.67		P	06:27:25.948	0.5	355.0		5.74		TAS		2538.2	1.66	m_e	mb 7.1
GRA1	75.67		L	07:03:23.854						T__		441063.0	21.90	a_e	Ms 7.7
GTTG	73.75		P	06:27:14.709	0.3	355.0		5.74		TAS		2406.3	1.21	m_e	MBB 7.9
HLG	70.98		P	06:27:00.530	2.1	355.0		5.74		TAS		3651.4	1.09	m_e	MBB 8.2
IBBN	72.84		P	06:27:08.688	-0.4	355.0		5.74		TAS		3397.8	1.30	m_e	MBB 8.2
KAST	73.98		P	06:27:15.406	-0.3	355.0		5.74		TAS		1055.2	1.20	m_e	MBB 7.8
MOX	74.74		P	06:27:20.303	0.2	355.0		5.74		TAS		1819.0	1.18	m_e	MBB 7.8
MOX	74.74		L	07:05:52.540						T__		384116.0	21.90	a_e	Ms 7.7
NEUB	74.20		P	06:27:17.094	0.1	355.0		5.74		TAS		3205.5	1.32	m_e	MBB 8.0
PLN	74.93		P	06:27:21.392	0.2	355.0		5.74		TAS		302.0	1.13	m_e	MBB 7.4
RETH	72.52		P	06:27:06.897	-0.5	355.0		5.74		TAS		1960.8	1.47	m_e	MBB 8.1
RGN	70.92		P	06:26:57.909	-0.2	355.0		5.74		TAS		5255.1	1.15	m_e	MBB 8.2
RUE	73.01		P	06:27:10.471	0.3	355.0		5.74		TAS		3319.1	1.41	m_e	MBB 8.2
STU	76.46		P	06:27:29.978	0.0	355.0		5.74		TAS		3089.5	1.37	m_e	MBB 8.2
TANN	75.01		P	06:27:21.163	-0.5	355.0		5.74		TAS		841.6	1.18	m_e	MBB 7.9
TNS	74.96		P	06:27:21.276	-0.1	355.0		5.74		TAS		1590.9	1.31	m_e	MBB 7.8
WET	76.30		P	06:27:29.713	0.7	355.0		5.74		TAS		2063.8	1.52	m_e	MBB 8.0
WLF	75.32		P	06:27:23.402	0.1	355.0		5.74		TAS		1510.7	1.14	m_e	MBB 7.9

Event 10729002 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/29	06:23:33.51			55.9020	-158.6230				33.0			18		69.59	75.83	m i ke	BGR
OrigID 10729008																	

Magnitude Err Nsta Author OrigID
 mb 5.9 BGR 10729008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	71.84		P	06:34:52.240	0.3	354.1		5.84		TAS		80.4	1.11	m_e	mb 5.8
BFO	75.44		P	06:35:13.709		354.1		5.84		TAS		57.6	0.92	m_e	mb 5.7
BRG	73.28		P	06:35:01.203	0.0	354.1		5.84		TAS		114.4	0.98	m_e	mb 6.0
BSEG	70.02		P	06:34:41.917	-0.2	354.1		5.84		TAS		110.3	0.96	m_e	mb 6.0
BUG	72.26		P	06:34:54.871	-0.3	354.1		5.84		TAS		37.5	0.83	m_e	mb 5.6
CLL	72.80		P	06:34:57.965	-0.1	354.1		5.84		TAS		67.1	0.93	m_e	mb 5.8
CLZ	72.11		P	06:34:54.100	-0.3	354.1		5.84		TAS		96.3	0.97	m_e	mb 5.9
FLT1	71.68		P	06:34:51.183	0.1	354.1		5.84		TAS		108.1	1.00	m_e	mb 5.9
FUR	75.83		P	06:35:15.949		354.1		5.84		TAS		85.3	0.79	m_e	mb 5.9
GEC2	75.30		P	06:35:12.714		354.1		5.84		TAS		65.2	1.01	m_e	mb 5.6
GRA1	74.31		P	06:35:06.639	-0.1	354.1		5.84		TAS		63.8	0.82	m_e	mb 5.7
GTTG	72.37		P	06:34:55.704	-0.1	354.1		5.84		TAS		108.4	0.88	m_e	mb 6.0
IBBN	71.44		P	06:34:50.304	-0.6	354.1		5.84		TAS		171.8	1.05	m_e	mb 6.1
KAST	72.59		P	06:34:56.895	-0.1	354.1		5.84		TAS		115.6	1.11	m_e	mb 5.9
MOX	73.38		P	06:35:01.677	0.4	354.1		5.84		TAS		190.7	1.08	m_e	mb 6.0
NEUB	72.84		P	06:34:58.340	-0.1	354.1		5.84		TAS		92.9	0.78	m_e	mb 6.0
RGN	69.59		P	06:34:39.514	0.3	354.1		5.84		TAS		279.8	0.98	m_e	mb 6.4
RUE	71.68		P	06:34:51.710	0.3	354.1		5.84		TAS		152.6	0.84	m_e	mb 6.2
STU	75.07		P	06:35:11.426		354.1		5.84		TAS		239.9	1.01	m_e	mb 6.2
TANN	73.66		P	06:35:03.346	0.2	354.1		5.84		TAS		122.4	1.20	m_e	mb 5.8
TNS	73.57		P	06:35:02.863	-0.2	354.1		5.84		TAS		69.2	0.83	m_e	mb 5.7
WET	74.95		P	06:35:10.736		354.1		5.84		TAS		64.6	1.06	m_e	mb 5.6
WLF	73.91		P	06:35:05.146	-0.0	354.1		5.84		TAS		193.6	1.08	m_e	mb 6.0

Event 10729003 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/29	06:32:38.06			55.4580	-158.0320				33.0			16		70.00	76.23	m i ke	BGR

Magnitude Err Nsta Author OrigID
 mb 5.5 BGR 10729009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	72.24		P	06:43:59.250	-0.3	353.7		5.81		TAS		27.3	0.89	m_e	mb 5.4
BFO	75.82		P	06:44:20.407		353.7		5.81		TAS		23.2	0.93	m_e	mb 5.3
BRG	73.70		P	06:44:07.751	0.6	353.7		5.81		TAS		37.6	0.92	m_e	mb 5.4
BSEG	70.42		P	06:43:48.688	-0.2	353.7		5.81		TAS		50.6	0.95	m_e	mb 5.6
BUG	72.64		P	06:44:01.805	-0.1	353.7		5.81		TAS		26.3	0.95	m_e	mb 5.3
CLL	73.21		P	06:44:04.979	0.4	353.7		5.81		TAS		32.6	0.88	m_e	mb 5.5
CLZ	72.51		P	06:44:00.935	-0.1	353.7		5.81		TAS		36.9	0.87	m_e	mb 5.5
FLT1	72.08		P	06:43:58.031	-0.2	353.7		5.81		TAS		27.1	0.87	m_e	mb 5.4

FUR	76.23	P	06:44:22.690		353.7		5.81	TAS		37.0	0.83	m_e	mb	5.5
GEC2	75.71	P	06:44:19.699		353.7		5.81	TAS		31.6	0.98	m_e	mb	5.4
GRA1	74.71	P	06:44:13.516		353.7		5.81	TAS		32.8	0.74	m_e	mb	5.5
GTTG	72.77	P	06:44:02.518	-0.1	353.7		5.81	TAS		87.8	0.98	m_e	mb	5.8
IBBN	71.83	P	06:43:56.978	-0.7	353.7		5.81	TAS		93.5	1.05	m_e	mb	5.8
KAST	72.98	P	06:44:04.005	0.1	353.7		5.81	TAS		33.9	1.00	m_e	mb	5.4
MOX	73.78	P	06:44:08.340	0.1	353.7		5.81	TAS		57.5	0.97	m_e	mb	5.6
NEUB	73.25	P	06:44:05.352	0.2	353.7		5.81	TAS		54.0	0.79	m_e	mb	5.7
RGN	70.00	P	06:43:46.503	0.4	353.7		5.81	TAS		141.6	0.98	m_e	mb	6.1
RUE	72.09	P	06:43:58.222	-0.7	353.7		5.81	TAS		144.9	1.06	m_e	mb	6.0
STU	75.46	P	06:44:18.229		353.7		5.81	TAS		74.5	0.92	m_e	mb	5.8
TANN	74.07	P	06:44:09.970		353.7		5.81	TAS		27.7	1.10	m_e	mb	5.2
TNS	73.96	P	06:44:09.476	0.0	353.7		5.81	TAS		35.0	0.84	m_e	mb	5.4
WET	75.36	P	06:44:17.665		353.7		5.81	TAS		32.6	1.12	m_e	mb	5.3
WLF	74.29	P	06:44:11.624		353.7		5.81	TAS		45.8	0.94	m_e	mb	5.5

Event 10729005 Myanmar

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/29	08:39:38.87			23.9480	95.2350				33.0					68.33	68.33	m i ke	BGR
10729011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	10729011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	68.33		P	08:50:36.517		86.0		5.37		TAS		18.7	1.42	m_e	mb	5.1

Event 10729004 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/29	11:00:33.16			-19.6040	171.3670				33.0				8	143.79	148.17	m i ke	BGR
10729010																	

Magnitude	Err	Nsta	Author	OrigID
-----------	-----	------	--------	--------

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.17		PKPbc	11:20:15.789		34.9		3.25		TAS				m_e	
BRG	144.01		PKPbc	11:20:02.373	-0.4	34.9		3.25		TAS				m_e	
BUG	145.78		PKPbc	11:20:08.678		34.9		3.25		TAS				m_e	
CLZ	144.48		PKPbc	11:20:04.091		34.9		3.25		TAS				m_e	
FLT1	143.79		PKPbc	11:20:01.664		34.9		3.25		TAS				m_e	
FUR	147.22		PKPbc	11:20:12.767		34.9		3.25		TAS				m_e	

GEC2	145.69	PKPbc	11:20:07.886	34.9	3.25	TAS	m_e
GRA1	145.99	PKPbc	11:20:09.020	34.9	3.25	TAS	m_e
GTTG	144.87	PKPbc	11:20:05.357	34.9	3.25	TAS	m_e
IBBN	144.88	PKPbc	11:20:05.793	-0.2 34.9	3.25	TAS	m_e
KAST	145.66	PKPbc	11:20:08.349	34.9	3.25	TAS	m_e
MOX	145.06	PKPbc	11:20:05.880	34.9	3.25	TAS	m_e
NEUB	144.55	PKPbc	11:20:04.287	34.9	3.25	TAS	m_e
STU	147.49	PKPbc	11:20:13.481	34.9	3.25	TAS	m_e
TANN	144.94	PKPbc	11:20:05.450	34.9	3.25	TAS	m_e
TNS	146.50	PKPbc	11:20:10.982	34.9	3.25	TAS	m_e
WET	145.79	PKPbc	11:20:08.453	34.9	3.25	TAS	m_e
WLF	147.69	PKPbc	11:20:14.888	34.9	3.25	TAS	m_e

Event 10730002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2021/07/30	02:40:26.39			-20.2760	-175.4870				280.0		17		146.02	151.75	m	i ke	BGR	10
730008																		

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.75		PKPbc	02:59:46.783		12.7		2.51		TAS					m_e
BRG	148.49		PKPbc	02:59:39.065	0.9	12.7		2.51		TAS					m_e
BSEG	146.02		PKPbc	02:59:32.398	-0.3	12.7		2.51		TAS					m_e
BUG	148.73		PKPbc	02:59:39.389	0.5	12.7		2.51		TAS					m_e
CLL	148.24		PKPbc	02:59:38.343	0.4	12.7		2.51		TAS					m_e
FLT1	147.49		PKPbc	02:59:36.204	-0.5	12.7		2.51		TAS					m_e
FUR	151.56		PKPbc	02:59:45.905		12.7		2.51		TAS					m_e
GEC2	150.47		PKPbc	02:59:43.728		12.7		2.51		TAS					m_e
GRA1	150.08		PKPbc	02:59:43.839		12.7		2.51		TAS					m_e
GTTG	148.41		PKPbc	02:59:39.076	-0.0	12.7		2.51		TAS					m_e
KAST	148.89		PKPbc	02:59:40.010	-0.8	12.7		2.51		TAS					m_e
MOX	149.09		PKPbc	02:59:40.544	-0.5	12.7		2.51		TAS					m_e
NEUB	148.53		PKPbc	02:59:39.132	-0.3	12.7		2.51		TAS					m_e
TANN	149.19		PKPbc	02:59:41.224		12.7		2.51		TAS					m_e
TNS	149.86		PKPbc	02:59:42.946		12.7		2.51		TAS					m_e
WET	150.34		PKPbc	02:59:43.618		12.7		2.51		TAS					m_e
WLF	150.55		PKPbc	02:59:45.019		12.7		2.51		TAS					m_e

Event 10730001 Alaska Peninsula, United States

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

2021/07/30 03:52:13.67
10730007

55.2400 -157.9700

33.0

25

70.63 76.44 m i ke BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	10730007
Ms	4.9		BGR	10730007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	72.46		P	04:03:38.022	0.3	353.8		5.86		TAS		42.3	1.11	m_e	mb 5.5
BFO	76.03		P	04:03:58.674		353.8		5.86		TAS		27.3	0.96	m_e	mb 5.3
BRG	73.91		P	04:03:46.550	0.1	353.8		5.86		TAS		47.7	1.07	m_e	mb 5.5
BSEG	70.63		P	04:03:27.253	-0.0	353.8		5.86		TAS		69.9	1.17	m_e	mb 5.7
BUG	72.85		P	04:03:40.203	-0.1	353.8		5.86		TAS		25.8	0.91	m_e	mb 5.3
CLL	73.43		P	04:03:43.420	0.0	353.8		5.86		TAS		44.3	1.01	m_e	mb 5.4
CLZ	72.72		P	04:03:39.919	-0.2	353.8		5.86		TAS		59.0	1.06	m_e	mb 5.6
FLT1	72.30		P	04:03:36.581	0.3	353.8		5.86		TAS		38.2	1.02	m_e	mb 5.5
FUR	76.44		P	04:04:01.390		353.8		5.86		TAS		56.7	0.97	m_e	mb 5.7
GEC2	75.92		P	04:03:58.371	-0.4	353.8		5.86		TAS		28.1	0.95	m_e	mb 5.4
GOR1	71.64		P	04:03:33.436	0.3	353.8		5.86		TAS		93.7	1.44	m_e	mb 5.7
GRA1	74.92		P	04:03:52.807	0.0	353.8		5.86		TAS		44.9	0.94	m_e	mb 5.5
GRA1	74.92		L	04:39:37.619						T__		702.5	21.20	a_e	Ms 4.9
GTTG	72.98		P	04:03:41.526	-0.3	353.8		5.86		TAS		63.3	0.98	m_e	mb 5.7
IBBN	72.04		P	04:03:35.702	-0.1	353.8		5.86		TAS		71.2	1.00	m_e	mb 5.8
KAST	73.19		P	04:03:42.331	-0.0	353.8		5.86		TAS		39.9	1.01	m_e	mb 5.5
MOX	74.00		P	04:03:47.180	-0.0	353.8		5.86		TAS		51.1	0.94	m_e	mb 5.5
MOX	74.00		L	04:41:28.930						T__		534.3	19.70	a_e	Ms 4.8
NEUB	73.46		P	04:03:44.015	0.0	353.8		5.86		TAS		62.3	0.87	m_e	mb 5.7
PLN	74.19		P	04:03:48.366	0.1	353.8		5.86		TAS		11.7	0.94	m_e	mb 4.9
RETH	71.75		P	04:03:33.941	0.1	353.8		5.86		TAS		51.4	1.11	m_e	mb 5.6
RUE	72.30		P	04:03:37.461	-0.6	353.8		5.86		TAS		82.6	0.84	m_e	mb 5.9
STU	75.67		P	04:03:56.839	-0.1	353.8		5.86		TAS		92.3	0.94	m_e	mb 5.9
TANN	74.28		P	04:03:48.773	0.3	353.8		5.86		TAS		35.1	1.25	m_e	mb 5.2
TNS	74.17		P	04:03:48.268	0.3	353.8		5.86		TAS		45.4	0.92	m_e	mb 5.5
WET	75.57		P	04:03:56.445	-0.1	353.8		5.86		TAS		60.0	1.37	m_e	mb 5.5
WLF	74.50		P	04:03:50.303	0.1	353.8		5.86		TAS		51.5	0.99	m_e	mb 5.5

Event 10730008 Ecuador

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/30	17:10:44.12			-1.9980	-76.2760				41.0	1.6		24		86.63	91.69	m i ke	BGR
10730014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	10730014
Ms	5.6		BGR	10730014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	89.70		P	17:23:37.887	0.4	266.8		4.66		TAS		479.4	2.20	m_e	mb 6.3
BFO	87.91		P	17:23:28.585	-0.7	266.8		4.66		TAS		30.6	1.37	m_e	mb 5.5
BFO	87.91		pP	17:23:40.711		267.6		4.66		TAS				m_e	
BRG	91.69		P	17:23:46.962		266.8		4.66		TAS		30.6	1.11	m_e	mb 5.5
BRG	91.69		pP	17:23:58.884		267.6		4.66		TAS				m_e	
BSEG	89.60		P	17:23:36.863	0.2	266.8		4.66		TAS		284.1	1.71	m_e	mb 6.2
BSEG	89.60		pP	17:23:48.956		267.6		4.66		TAS				m_e	
BUG	87.54		P	17:23:27.530	-0.1	266.8		4.66		TAS		128.6	1.96	m_e	mb 5.9
CLL	91.11		P	17:23:44.017	0.1	266.8		4.66		TAS		307.2	2.42	m_e	mb 6.2
CLZ	89.50		P	17:23:36.947	-0.3	266.8		4.66		TAS		70.9	1.05	m_e	mb 5.8
FLT1	90.06		P	17:23:39.080	0.1	266.8		4.66		TAS		246.6	1.87	m_e	mb 6.1
FLT1	90.06		pP	17:23:50.945		267.6		4.66		TAS				m_e	
GEC2	91.50		P	17:23:45.532		266.8		4.66		TAS		16.2	1.09	m_e	mb 5.3
GOR1	90.13		P	17:23:39.231	0.2	266.8		4.66		TAS		251.9	1.53	m_e	mb 6.2
GRA1	89.91		P	17:23:39.038	-0.5	266.8		4.66		TAS				m_e	
GRA1	89.91		L	18:03:25.253						T__		2887.4	21.80	a_e	Ms 5.7
GTTG	89.22		P	17:23:35.796	0.2	266.8		4.66		TAS		86.5	1.34	m_e	mb 5.8
IBBN	87.93		P	17:23:29.314	-0.1	266.8		4.66		TAS		95.2	1.15	m_e	mb 6.0
KAST	88.23		P	17:23:30.510	0.2	266.8		4.66		TAS		51.5	1.25	m_e	mb 5.7
MOX	90.21		P	17:23:40.124	0.1	266.8		4.66		TAS		31.2	1.20	m_e	mb 5.4
MOX	90.21		L	18:04:00.992						T__		2088.8	21.80	a_e	Ms 5.5
NEUB	90.33		P	17:23:40.838	0.3	266.8		4.66		TAS		65.0	1.31	m_e	mb 5.7
PLN	90.55		P	17:23:41.651	0.0	266.8		4.66		TAS		12.8	1.01	m_e	mb 5.2
RETH	88.94		P	17:23:34.404	0.4	266.8		4.66		TAS		391.1	1.76	m_e	mb 6.3
RUE	91.62		P	17:23:46.718		266.8		4.66		TAS		53.2	0.81	m_e	mb 5.9
RUE	91.62		pP	17:23:58.256		267.6		4.66		TAS				m_e	
STU	88.52		P	17:23:32.315	0.3	266.8		4.66		TAS		176.8	1.21	m_e	mb 6.3
TANN	90.74		P	17:23:42.755	-0.2	266.8		4.66		TAS		46.3	1.09	m_e	mb 5.7
TANN	90.74		pP	17:23:54.890		267.6		4.66		TAS				m_e	
TNS	88.16		P	17:23:30.544	0.1	266.8		4.66		TAS		68.5	1.34	m_e	mb 5.8
WET	90.97		P	17:23:43.528	-0.5	266.8		4.66		TAS		114.0	1.91	m_e	mb 5.9
WET	90.97		pP	17:23:55.733		267.6		4.66		TAS				m_e	
WLF	86.63		P	17:23:23.560	0.2	266.8		4.66		TAS		116.8	1.10	m_e	mb 5.9
WLF	86.63		pP	17:23:35.729		267.6		4.66		TAS				m_e	

Event 10730009 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/30	22:11:46.62			56.6390	-155.1220				24.0	2.7		21		68.65	74.37	m i ke	BGR
10730015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	10730015
Ms	4.5		BGR	10730015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.37		P	22:23:20.788		352.2		5.92		TAS		12.5	0.90	m_e	mb 4.9
BRG	72.34		P	22:23:09.128	-0.0	352.2		5.92		TAS		16.3	0.94	m_e	mb 5.1
BSEG	69.02		P	22:22:49.431	0.2	352.2		5.92		TAS		22.5	0.93	m_e	mb 5.4
BSEG	69.02		pP	22:22:56.091		352.4		6.01		TAS				m_e	
BUG	71.18		P	22:23:01.936	-0.0	352.2		5.92		TAS		12.8	0.91	m_e	mb 5.0
BUG	71.18		pP	22:23:09.538		352.4		6.01		TAS				m_e	
CLL	71.84		P	22:23:06.054	0.0	352.2		5.92		TAS		13.0	0.95	m_e	mb 5.0
CLZ	71.10		P	22:23:02.189	-0.2	352.2		5.92		TAS		27.7	0.93	m_e	mb 5.4
FLT1	70.69		P	22:22:58.902	0.3	352.2		5.92		TAS		15.8	0.89	m_e	mb 5.2
GEC2	74.34		P	22:23:20.988		352.2		5.92		TAS		12.5	0.89	m_e	mb 5.0
GRA1	73.30		P	22:23:15.153		352.2		5.92		TAS		16.9	0.84	m_e	mb 5.2
GRA1	73.30		L	23:02:47.561						T__		247.5	18.70	a_e	Ms 4.5
GTTG	71.35		P	22:23:03.915		352.2		5.92		TAS		37.1	0.91	m_e	mb 5.5
IBBN	70.38		P	22:22:57.659	0.3	352.2		5.92		TAS		28.3	0.88	m_e	mb 5.4
IBBN	70.38		pP	22:23:03.726		352.4		6.01		TAS				m_e	
KAST	71.54		P	22:23:04.334	-0.1	352.2		5.92		TAS		17.0	0.96	m_e	mb 5.2
KAST	71.54		pP	22:23:11.865		352.4		6.01		TAS				m_e	
MOX	72.39		P	22:23:09.411	0.4	352.2		5.92		TAS		23.9	0.91	m_e	mb 5.3
MOX	72.39		pP	22:23:16.136		352.4		6.01		TAS				m_e	
MOX	72.39		L	23:00:47.785						T__		190.8	18.10	a_e	Ms 4.4
NEUB	71.86		P	22:23:06.353	0.0	352.2		5.92		TAS		31.7	0.90	m_e	mb 5.5
PLN	72.60		P	22:23:10.721	0.2	352.2		5.92		TAS		4.2	0.87	m_e	mb 4.6
RETH	70.12		P	22:22:56.249	-0.5	352.2		5.92		TAS		21.7	1.02	m_e	mb 5.2
RGN	68.65		P	22:22:47.361	-0.1	352.2		5.92		TAS		85.1	0.98	m_e	mb 5.9
RUE	70.74		P	22:23:00.021	-0.3	352.2		5.92		TAS		54.4	1.06	m_e	mb 5.6
RUE	70.74		pP	22:23:06.618		352.4		6.01		TAS				m_e	
TANN	72.69		P	22:23:11.254	-0.3	352.2		5.92		TAS		7.6	1.01	m_e	mb 4.8
TNS	72.51		P	22:23:10.217	0.2	352.2		5.92		TAS		22.4	0.83	m_e	mb 5.3
TNS	72.51		pP	22:23:16.836		352.4		6.01		TAS				m_e	
WET	73.98		P	22:23:19.184		352.2		5.92		TAS		14.2	1.12	m_e	mb 4.9
WLF	72.80		P	22:23:12.215	-0.1	352.2		5.92		TAS		21.0	1.00	m_e	mb 5.2

Event 10730010 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/30	22:39:22.65			-16.0080	-173.4090				33.0			18		143.48	147.64	m i ke	BGR
	10730016																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	143.72		PKPbc	22:58:50.782	-0.2	8.0		3.05		TAS				m_e	
BFO	147.64		PKPbc	22:59:02.760		8.0		3.05		TAS				m_e	
BRG	144.63		PKPbc	22:58:53.828	0.2	8.0		3.05		TAS				m_e	
BUG	144.55		PKPbc	22:58:53.689	0.0	8.0		3.05		TAS				m_e	

CLL	144.32	PKPbc	22:58:52.637	0.1	8.0	3.05	TAS	m_e
CLZ	144.03	PKPbc	22:58:52.291	0.0	8.0	3.05	TAS	m_e
FLT1	143.48	PKPbc	22:58:50.832	0.1	8.0	3.05	TAS	m_e
GEC2	146.65	PKPbc	22:59:00.105		8.0	3.05	TAS	m_e
GTTG	144.35	PKPbc	22:58:53.379	0.0	8.0	3.05	TAS	m_e
IBBN	143.68	PKPbc	22:58:50.845	-0.3	8.0	3.05	TAS	m_e
KAST	144.76	PKPbc	22:58:54.518	0.5	8.0	3.05	TAS	m_e
MOX	145.12	PKPbc	22:58:55.505	-0.1	8.0	3.05	TAS	m_e
NEUB	144.56	PKPbc	22:58:53.767	0.4	8.0	3.05	TAS	m_e
PLN	145.22	PKPbc	22:58:55.765	-0.5	8.0	3.05	TAS	m_e
TANN	145.26	PKPbc	22:58:56.252		8.0	3.05	TAS	m_e
TNS	145.74	PKPbc	22:58:57.616		8.0	3.05	TAS	m_e
WET	146.46	PKPbc	22:58:59.598		8.0	3.05	TAS	m_e
WLF	146.33	PKPbc	22:59:00.012		8.0	3.05	TAS	m_e

Event 10731001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/31	05:26:10.48			43.8690	141.7890				177.5	1.5		22		74.00	79.39	m i ke	BGR
OrigID 10731007																	

Magnitude Err Nsta Author OrigID
mb 5.4 BGR 10731007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	75.38		P	05:37:32.484	-0.1	34.2		5.58		TAS		23.5	1.02	m_e mb	5.2
BFO	79.39		P	05:37:54.825		34.2		5.58		TAS		35.5	1.28	m_e mb	5.2
BRG	75.24		P	05:37:31.819	-0.4	34.2		5.58		TAS		19.3	1.04	m_e mb	5.1
BSEG	74.01		P	05:37:25.272	0.4	34.2		5.58		TAS		44.7	0.87	m_e mb	5.5
BUG	77.11		P	05:37:42.488		34.2		5.58		TAS		14.7	0.79	m_e mb	5.2
CLL	75.23		P	05:37:31.670	0.1	34.2		5.58		TAS		45.7	0.87	m_e mb	5.5
CLL	75.23		pP	05:38:14.800		34.8		5.68		TAS				m_e	
CLZ	75.72		P	05:37:35.152	0.2	34.2		5.58		TAS		53.2	0.95	m_e mb	5.7
FLT1	75.02		P	05:37:30.418	-0.3	34.2		5.58		TAS		55.5	0.83	m_e mb	5.6
FUR	78.45		P	05:37:50.446		34.2		5.58		TAS		80.6	1.19	m_e mb	5.6
GEC2	76.97		P	05:37:41.694	0.1	34.2		5.58		TAS		12.4	1.00	m_e mb	5.0
GOR1	74.45		P	05:37:28.052	-0.5	34.2		5.58		TAS		81.1	1.19	m_e mb	5.6
GRA1	77.21		P	05:37:43.581	-0.5	34.2		5.58		TAS		61.5	0.90	m_e mb	5.7
GTTG	76.11		P	05:37:37.160	0.0	34.2		5.58		TAS		45.4	0.97	m_e mb	5.6
KAST	76.93		P	05:37:41.445	0.5	34.2		5.58		TAS		24.1	0.86	m_e mb	5.3
KAST	76.93		pP	05:38:24.878		34.8		5.68		TAS				m_e	
MOX	76.28		P	05:37:37.819	0.3	34.2		5.58		TAS		25.3	1.08	m_e mb	5.3
NEUB	75.77		P	05:37:34.943	-0.1	34.2		5.58		TAS		52.7	0.90	m_e mb	5.7
PLN	76.21		P	05:37:37.527	-0.1	34.2		5.58		TAS		6.7	1.11	m_e mb	4.7
RETH	75.32		P	05:37:32.618	0.3	34.2		5.58		TAS		56.4	1.15	m_e mb	5.5
RUE	74.00		P	05:37:25.297	0.1	34.2		5.58		TAS		50.2	0.91	m_e mb	5.5

./bul2107.txt

Wed Jan 11 09:16:11 2023

63

STU	78.71	P	05:37:51.269	34.2	5.58	TAS	90.4	0.88	m_e	mb	5.8
STU	78.71	pP	05:38:34.654	34.8	5.68	TAS			m_e		
TANN	76.16	P	05:37:37.124	-0.1 34.2	5.58	TAS	12.7	1.18	m_e	mb	4.9
TNS	77.75	P	05:37:46.221	34.2	5.58	TAS	29.1	1.13	m_e	mb	5.3
TNS	77.75	pP	05:38:29.154	34.8	5.68	TAS			m_e		
WET	77.04	P	05:37:42.496	0.4 34.2	5.58	TAS	33.1	1.00	m_e	mb	5.4
WET	77.04	pP	05:38:25.278	34.8	5.68	TAS			m_e		

Event 10731004 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/31	19:58:01.23			36.5760	27.1060				33.0			18		15.69	20.90	m i ke	BGR
OrigID 10731010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	10731010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	19.41	P		20:02:23.827	0.2	132.8		11.04		TAS		9.3	0.80	m_e	mb	4.1
BFO	18.10	P		20:02:10.071	-0.7	132.8		11.04		TAS		11.8	0.88	m_e	mb	4.0
BRG	17.12	P		20:01:59.716	1.4	132.8		11.04		TAS		7.3	0.90	m_e	mb	3.8
BSEG	20.90	P		20:02:39.676		132.8		11.04		TAS				m_e		
CLL	17.83	P		20:02:07.729	1.1	132.8		11.04		TAS		9.4	0.81	m_e	mb	4.0
CLZ	19.33	P		20:02:23.194	-1.2	132.8		11.04		TAS		9.0	0.84	m_e	mb	4.0
FLT1	19.32	P		20:02:22.666	0.3	132.8		11.04		TAS		10.9	0.93	m_e	mb	4.1
FUR	16.42	P		20:01:50.442	-1.0	132.8		11.04		TAS		22.3	0.86	m_e	mb	4.3
GEC2	15.69	P		20:01:42.550	-1.2	132.8		11.04		TAS		12.7	0.87	m_e	mb	4.1
GRA1	17.44	P		20:02:03.356	0.2	132.8		11.04		TAS		22.7	0.82	m_e	mb	4.3
GTTG	19.30	P		20:02:23.096	-0.4	132.8		11.04		TAS		32.8	0.85	m_e	mb	4.6
KAST	19.79	P		20:02:27.893		132.8		11.04		TAS		7.7	0.81	m_e	mb	4.0
MOX	17.93	P		20:02:09.000	1.2	132.8		11.04		TAS		13.4	0.85	m_e	mb	4.1
STU	17.88	P		20:02:08.359	0.7	132.8		11.04		TAS		51.2	0.78	m_e	mb	4.7
TANN	17.39	P		20:02:01.973	-0.3	132.8		11.04		TAS		12.9	0.95	m_e	mb	4.0
TNS	19.15	P		20:02:21.181	-0.3	132.8		11.04		TAS		16.1	0.74	m_e	mb	4.3
WET	16.28	P		20:01:49.717	-0.6	132.8		11.04		TAS		16.9	0.84	m_e	mb	4.2
WLF	20.03	P		20:02:30.804		132.8		11.04		TAS		28.3	0.95	m_e	mb	4.5

Event 10731006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2021/07/31	23:26:02.56			-18.1170	-178.1160				580.0			14		143.57	149.32	m i ke	BGR
OrigID 10731012																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	149.32		PKPbc	23:44:46.782		16.7		2.70		TAS				m_e		
BRG	145.85		PKPbc	23:44:38.121	-0.1	16.7		2.70		TAS				m_e		
BSEG	143.57		PKPbc	23:44:31.006	0.9	16.7		2.70		TAS				m_e		
CLL	145.65		PKPbc	23:44:37.391	-0.1	16.7		2.70		TAS				m_e		
CLZ	145.60		PKPbc	23:44:37.466	0.1	16.7		2.70		TAS				m_e		
FLT1	144.99		PKPbc	23:44:35.164	0.4	16.7		2.70		TAS				m_e		
GEC2	147.81		PKPbc	23:44:43.258		16.7		2.70		TAS				m_e		
GRA1	147.53		PKPbc	23:44:42.770	0.0	16.7		2.70		TAS				m_e		
GTTG	145.95		PKPbc	23:44:38.458	0.0	16.7		2.70		TAS				m_e		
IBBN	145.48		PKPbc	23:44:38.072	0.3	16.7		2.70		TAS				m_e		
MOX	146.54		PKPbc	23:44:39.766	0.0	16.7		2.70		TAS				m_e		
NEUB	145.99		PKPbc	23:44:38.682	-0.6	16.7		2.70		TAS				m_e		
PLN	146.59		PKPbc	23:44:39.978		16.7		2.70		TAS				m_e		
STU	148.76		PKPbc	23:44:45.705		16.7		2.70		TAS				m_e		
TANN	146.60		PKPbc	23:44:40.211		16.7		2.70		TAS				m_e		
TNS	147.45		PKPbc	23:44:42.443		16.7		2.70		TAS				m_e		
WLF	148.25		PKPbc	23:44:44.878		16.7		2.70		TAS				m_e		