

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

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

December 2022

UPDATED 09.February 2024

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

Event 21201001 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/01	11:02:42.96			-1.3900	-18.7930				33.0				16	54.87	60.22	m i ke	BGR
OrigID 21201007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	21201007
Ms	4.3		BGR	21201007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	56.29		P	11:12:22.374		216.5		7.07		TAS		16.9	0.79	m_e mb	5.1
BFO	54.87		P	11:12:11.514		216.5		7.07		TAS		35.6	1.18	m_e mb	5.3
BSEG	60.22		P	11:12:49.047	-0.1	216.5		7.07		TAS		30.5	0.92	m_e mb	5.3
FLT1	59.22		P	11:12:42.427	-0.1	216.5		7.07		TAS		19.6	1.13	m_e mb	5.0
FUR	55.88		P	11:12:19.183		216.5		7.07		TAS		61.9	1.08	m_e mb	5.6
GEC2	57.41		P	11:12:29.989		216.5		7.07		TAS		60.9	1.73	m_e mb	5.3
GRA1	57.08		P	11:12:27.259		216.5		7.07		TAS		28.3	1.11	m_e mb	5.2
GRA1	57.08		L	11:38:04.722						T__		177.7	19.70	a_e Ms	4.2
IBBN	58.01		P	11:12:33.904	0.0	216.5		7.07		TAS		28.0	1.07	m_e mb	5.2
MOX	58.00		P	11:12:34.084		216.5		7.07		TAS		32.7	1.32	m_e mb	5.2
MOX	58.00		L	11:38:08.057						T__		317.4	18.10	a_e Ms	4.5
NEUB	58.50		P	11:12:37.482	-0.2	216.5		7.07		TAS		28.1	0.95	m_e mb	5.3
PLN	58.08		P	11:12:34.393		216.5		7.07		TAS		4.9	0.91	m_e mb	4.5
STU	55.56		P	11:12:16.206		216.5		7.07		TAS		77.4	1.25	m_e mb	5.6
TANN	58.14		P	11:12:34.981		216.5		7.07		TAS		13.8	0.88	m_e mb	5.0
TNS	56.49		P	11:12:23.106		216.5		7.07		TAS		43.8	1.41	m_e mb	5.3
UBR	55.02		P	11:12:12.725		216.5		7.07		TAS		64.0	1.22	m_e mb	5.5
WET	57.31		P	11:12:29.273		216.5		7.07		TAS		44.5	1.18	m_e mb	5.4

Event 21202001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/02	00:29:50.44			50.1120	154.7420				33.0			26		73.23	78.25	m i ke	BGR
OrigID 21202007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	21202007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	75.87		P	00:41:31.691	-0.0	23.2		5.74		TAS		7.7	0.93	m_e mb	4.8
ARSA	76.70		P	00:41:36.250		23.2		5.74		TAS		5.1	1.00	m_e mb	4.6
ASSE	73.56		P	00:41:17.661	0.5	23.2		5.74		TAS		5.4	1.04	m_e mb	4.5
BFO	77.64		P	00:41:41.144		23.2		5.74		TAS		5.6	0.93	m_e mb	4.7
BRG	73.87		P	00:41:20.009	-0.2	23.2		5.74		TAS		4.0	1.28	m_e mb	4.3
CLL	73.72		P	00:41:18.964	0.1	23.2		5.74		TAS		8.3	1.13	m_e mb	4.7
CLZ	73.89		P	00:41:20.068	0.3	23.2		5.74		TAS		27.5	1.56	m_e mb	5.0
DAVA	78.22		P	00:41:45.202		23.2		5.74		TAS		15.0	0.89	m_e mb	5.1
FETA	78.25		P	00:41:45.010		23.2		5.74		TAS		7.9	1.00	m_e mb	4.8
FLT1	73.23		P	00:41:16.057	0.1	23.2		5.74		TAS		4.9	0.93	m_e mb	4.6
GEC2	75.78		P	00:41:31.104	-0.2	23.2		5.74		TAS		3.3	1.10	m_e mb	4.4
GRA1	75.66		P	00:41:31.456	-0.7	23.2		5.74		TAS		11.3	0.92	m_e mb	5.0
GTTG	74.26		P	00:41:22.864	-0.0	23.2		5.74		TAS		2.8	0.60	m_e mb	4.5
IBBN	74.07		P	00:41:21.488	0.9	23.2		5.74		TAS		5.7	0.78	m_e mb	4.7
KAST	74.95		P	00:41:26.701	-0.1	23.2		5.74		TAS		6.6	0.95	m_e mb	4.7
MOA	76.52		P	00:41:35.278	-0.3	23.2		5.74		TAS		6.2	0.97	m_e mb	4.7
MOTA	77.85		P	00:41:42.916		23.2		5.74		TAS		13.6	0.88	m_e mb	5.1
MOX	74.68		P	00:41:24.981	0.1	23.2		5.74		TAS		4.2	0.96	m_e mb	4.5
NEUB	74.14		P	00:41:21.837	0.8	23.2		5.74		TAS		5.9	0.88	m_e mb	4.6
PLN	74.69		P	00:41:24.748	-0.1	23.2		5.74		TAS		1.2	1.12	m_e mb	3.8
SQTA	77.94		P	00:41:43.527		23.2		5.74		TAS		9.8	0.84	m_e mb	5.0
STU	77.02		P	00:41:38.095		23.2		5.74		TAS		27.6	1.10	m_e mb	5.3
TANN	74.68		P	00:41:25.386	0.4	23.2		5.74		TAS		3.1	1.14	m_e mb	4.2
TNS	75.85		P	00:41:31.926	-0.0	23.2		5.74		TAS		4.7	0.77	m_e mb	4.7
UBR	77.80		P	00:41:43.442	0.1	23.2		5.74		TAS		3.0	0.90	m_e mb	4.4
WET	75.73		P	00:41:31.632	0.2	23.2		5.74		TAS		5.3	0.95	m_e mb	4.7
WTTA	77.78		P	00:41:42.916		23.2		5.74		TAS		20.3	1.05	m_e mb	5.2

Event 21202002 North Island, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/02	05:07:48.90			-38.3480	176.0110				168.0			17		161.54	166.59	m i ke	NEIC
OrigID 21202041																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	162.80		pPKPab	05:29:04.448	1.1	47.4		4.25		TAS				m_e		
BFO	166.59		PKPab	05:28:36.432		46.7		4.48		TAS				m_e		
BRG	162.17		PKPab	05:28:16.136	0.4	46.7		4.48		TAS				m_e		
BRG	162.17		pPKPab	05:29:02.169	-0.4	47.4		4.25		TAS				m_e		
BSEG	161.54		PKPab	05:28:13.397	-0.6	46.7		4.48		TAS				m_e		
BSEG	161.54		pPKPab	05:28:58.780	1.1	47.4		4.25		TAS				m_e		
CLL	162.34		PKPab	05:28:16.840	0.8	46.7		4.48		TAS				m_e		
CLL	162.34		pPKPab	05:29:01.810	0.2	47.4		4.25		TAS				m_e		
CLZ	163.13		PKPab	05:28:20.933	0.4	46.7		4.48		TAS				m_e		
CLZ	163.13		pPKPab	05:29:05.895	-1.1	47.4		4.25		TAS				m_e		
FLT1	162.41		PKPab	05:28:16.655	0.2	46.7		4.48		TAS				m_e		
FLT1	162.41		pPKPab	05:29:02.284	0.1	47.4		4.25		TAS				m_e		
GOR1	161.90		pPKPab	05:29:01.176	-0.3	47.4		4.25		TAS				m_e		
GRA1	164.27		PKPab	05:28:25.464		46.7		4.48		TAS				m_e		
GRA1	164.27		pPKPab	05:29:08.618		47.4		4.25		TAS				m_e		
GTTG	163.53		PKPab	05:28:22.850		46.7		4.48		TAS				m_e		
HLG	162.15		pPKPab	05:29:04.504	0.1	47.4		4.25		TAS				m_e		
IBBN	163.77		pPKPab	05:29:08.197		47.4		4.25		TAS				m_e		
KAST	164.41		PKPab	05:28:26.328		46.7		4.48		TAS				m_e		
KAST	164.41		pPKPab	05:29:11.127		47.4		4.25		TAS				m_e		
MOX	163.44		PKPab	05:28:21.841	0.7	46.7		4.48		TAS				m_e		
MOX	163.44		pPKPab	05:29:05.895	-0.0	47.4		4.25		TAS				m_e		
NEUB	162.99		PKPab	05:28:20.329	-0.1	46.7		4.48		TAS				m_e		
NEUB	162.99		pPKPab	05:29:05.097	-0.9	47.4		4.25		TAS				m_e		
PLN	163.29		PKPab	05:28:21.764	-0.2	46.7		4.48		TAS				m_e		
PLN	163.29		pPKPab	05:29:07.035	-0.3	47.4		4.25		TAS				m_e		
TANN	163.19		PKPab	05:28:21.115	-0.4	46.7		4.48		TAS				m_e		
TANN	163.19		pPKPab	05:29:06.797	-1.7	47.4		4.25		TAS				m_e		
TNS	165.15		PKPab	05:28:29.917		46.7		4.48		TAS				m_e		
TNS	165.15		pPKPab	05:29:14.238		47.4		4.25		TAS				m_e		
UBR	166.12		PKPab	05:28:33.640		46.7		4.48		TAS				m_e		
WLF	166.51		PKPab	05:28:35.734		46.7		4.48		TAS				m_e		
WLF	166.51		pPKPab	05:29:21.366		47.4		4.25		TAS				m_e		

Event 21202003 Northwestern Balkan Peninsula
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2022/12/02 20:05:08.06 0.56 1.07 43.1220 18.1790 13.3 8.9 24 10.0 29 243 4.26 9.74 m i ke BGR
 21202009

Magnitude Err Nsta Author OrigID
 ML 4.6 BGR 21202009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	4.53		Pn	20:06:15.508	-0.9					T__				m_e	ML 4.0
BE1	6.84		Pn	20:06:47.863	0.3					T__				m_e	ML 5.1
BERGE	8.47		Pn	20:07:09.109	-0.6					T__				m_e	ML 4.6
BFO	8.63		Pn	20:07:10.758	-1.0					T__				m_e	ML 4.7
BUD	4.40		Pn	20:06:12.085	-2.5					T__				m_e	ML 4.6
EMING	8.10		Pn	20:07:03.782	-0.9					T__				m_e	ML 4.7
GEC2	6.51		Sn	20:07:56.187	1.3					T__				m_e	
GEC2	6.51		Pn	20:06:43.678	0.5					T__				m_e	ML 4.2
GRA1	8.13		Sn	20:08:32.108	-1.3					T__				m_e	
GRA1	8.13		Pn	20:07:04.923	-0.2					T__				m_e	ML 4.8
KBA	5.23		Pn	20:06:26.822	1.0					T__				m_e	ML 4.4
KW1	6.35		Pn	20:06:41.902	1.0					T__				m_e	ML 5.2
LESA	5.79		Pn	20:06:34.317	0.9					T__				m_e	ML 4.5
MANZ	8.03		Pn	20:07:04.099	0.4					T__				m_e	ML 4.3
METMA	8.35		Sn	20:08:35.616	-2.9					T__				m_e	
METMA	8.35		Pn	20:07:07.016	-1.0					T__				m_e	ML 4.5
MLR	6.05		Pn	20:06:37.907	0.9					T__				m_e	ML 4.2
MOA	5.47		Sn	20:07:31.062	1.0					T__				m_e	
MOA	5.47		Pn	20:06:29.953	0.9					T__				m_e	ML 4.6
MOX	8.76		Pn	20:07:13.865	0.4					T__				m_e	ML 4.3
NORI			Pn	20:06:58.137	-0.8					T__				m_e	
OBKA	4.26		Pn	20:06:13.058	0.3					T__				m_e	
PART	6.62		Pn	20:06:45.644	0.9					T__				m_e	ML 4.8
PSZ	4.94		Pn	20:06:20.059	-1.9					T__				m_e	ML 4.1
RJOB	5.97		Pn	20:06:36.765	1.0					T__				m_e	ML 4.2
ROTZ	7.81		Sn	20:08:26.198	0.4					T__				m_e	
ROTZ	7.81		Pn	20:07:01.499	0.7					T__				m_e	ML 4.3
SOP	4.70		Pn	20:06:17.434	-1.2					T__				m_e	ML 4.5
STU	8.42		Pn	20:07:09.933	0.9					T__				m_e	ML 4.8
TNS	9.74		Pn	20:07:27.120	0.3					T__				m_e	
UBR	7.28		Pn	20:06:53.191	-0.3					T__				m_e	ML 5.0
WALHA	7.87		Pn	20:07:01.308	-0.2					T__				m_e	ML 5.0
WET	7.05		Sn	20:08:08.517	0.8					T__				m_e	
WET	7.05		Pn	20:06:50.844	0.4					T__				m_e	ML 4.3
ZUGS	6.65		Pn	20:06:46.405	1.4					T__				m_e	ML 4.9

Event 21203004 Afghanistan-Tajikistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/03	02:59:39.00			36.5930	71.4590				102.0					44.68	44.68	m i ke	USGS
21203022																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	21203010

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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	44.68		P	03:07:43.400		83.3		6.49		TAS		3.6	0.67	m_e	mb 4.4

Event 21203005 Xizang

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/03	06:24:09.10			34.7900	85.7370				33.0			11		52.93	57.10	m i ke	BGR
OrigID 21203011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	21203011
Ms	4.7		BGR	21203011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	57.10		P	06:33:51.826	0.2	81.6		6.53		TAS		10.0	1.22	m_e	mb 4.7
BRG	52.93		P	06:33:20.061	0.1	81.6		6.53		TAS		12.6	1.41	m_e	mb 4.7
CLL	53.42		P	06:33:23.858	-0.1	81.6		6.53		TAS		3.5	0.92	m_e	mb 4.3
CLZ	54.90		P	06:33:35.001	0.7	81.6		6.53		TAS		9.0	1.13	m_e	mb 4.7
FLT1	54.27		P	06:33:29.468	-0.5	81.6		6.53		TAS		2.9	0.78	m_e	mb 4.4
FUR	55.25		P	06:33:37.727	0.1	81.6		6.53		TAS		8.6	0.77	m_e	mb 4.8
GEC2	53.52		P	06:33:24.519	0.5	81.6		6.53		TAS		12.3	1.38	m_e	mb 4.8
GRA1	54.90		P	06:33:35.859		81.6		6.53		TAS		24.5	1.36	m_e	mb 5.0
GRA1	54.90		L	06:58:35.656						T__		530.2	18.10	a_e	Ms 4.7
MOX	54.42		P	06:33:30.990		81.6		6.53		TAS		6.2	1.27	m_e	mb 4.5
MOX	54.42		L	07:00:13.166						T__		655.3	20.00	a_e	Ms 4.7
TANN	53.95		P	06:33:27.945		81.6		6.53		TAS		6.2	1.20	m_e	mb 4.5
TNS	56.48		P	06:33:47.820		81.6		6.53		TAS		4.0	0.85	m_e	mb 4.5

Event 21203006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/03	07:18:12.62			-18.6500	-179.3400				550.0			21		143.92	149.95	m i ke	BGR
OrigID 21203012																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.59		PKPbc	07:36:49.564	-0.1	17.7		2.86		TAS				m_e	
BFO	149.66		PKPbc	07:36:59.939		17.7		2.86		TAS				m_e	
BRG	146.08		PKPbc	07:36:50.806	0.1	17.7		2.86		TAS				m_e	
BSEG	143.92		PKPbc	07:36:43.514	-0.2	17.7		2.86		TAS				m_e	
CLL	145.90		PKPbc	07:36:49.977	-0.1	17.7		2.86		TAS				m_e	
CLZ	145.92		PKPbc	07:36:50.331	0.2	17.7		2.86		TAS				m_e	

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FLT1	145.30	PKPbc	07:36:47.721	0.3	17.7	2.86	TAS	m_e
FUR	149.24	PKPbc	07:37:00.151		17.7	2.86	TAS	m_e
GEC2	148.01	PKPbc	07:36:56.189		17.7	2.86	TAS	m_e
GOR1	144.66	PKPbc	07:36:46.332	0.5	17.7	2.86	TAS	m_e
GTTG	146.28	PKPbc	07:36:51.323	0.0	17.7	2.86	TAS	m_e
IBBN	145.87	PKPbc	07:36:50.657	0.3	17.7	2.86	TAS	m_e
KAST	146.85	PKPbc	07:36:52.643	0.0	17.7	2.86	TAS	m_e
MOX	146.82	PKPbc	07:36:52.659	-0.1	17.7	2.86	TAS	m_e
PLN	146.86	PKPbc	07:36:52.871	0.6	17.7	2.86	TAS	m_e
RUE	144.64	PKPbc	07:36:46.182	0.6	17.7	2.86	TAS	m_e
TANN	146.86	PKPbc	07:36:53.094	-0.8	17.7	2.86	TAS	m_e
TNS	147.80	PKPbc	07:36:55.813		17.7	2.86	TAS	m_e
UBR	149.95	PKPbc	07:37:01.083		17.7	2.86	TAS	m_e
WET	147.94	PKPbc	07:36:55.979		17.7	2.86	TAS	m_e
WLF	148.65	PKPbc	07:36:58.169		17.7	2.86	TAS	m_e

Event 21203007 Jawa, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/03	09:49:39.00			-7.2480	107.5880				112.5			16		97.90	102.92	m i ke	USGS
OrigID 21203025																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	102.26		SKSac	10:13:51.569		89.2		5.20		TAS				m_e	
ASSE	99.94		SKSac	10:13:38.569	-0.5	89.2		5.20		TAS				m_e	
ASSE	99.94		Pdiff	10:03:12.661		89.1		4.51		TAS				m_e	
BFO	101.56		SKSac	10:13:47.061		89.2		5.20		TAS				m_e	
BFO	101.56		Pdiff	10:03:19.916		89.1		4.51		TAS				m_e	
BRG	97.90		SKSac	10:13:28.400	0.1	89.2		5.20		TAS				m_e	
BRG	97.90		Pdiff	10:03:04.034	0.3	89.1		4.51		TAS				m_e	
BSEG	100.11		Pdiff	10:03:14.114		89.1		4.51		TAS				m_e	
BUG	102.08		Pdiff	10:03:22.430		89.1		4.51		TAS				m_e	
CLL	98.50		SKSac	10:13:31.126	0.5	89.2		5.20		TAS				m_e	
CLL	98.50		Pdiff	10:03:06.139	-0.0	89.1		4.51		TAS				m_e	
CLZ	100.13		SKSac	10:13:39.513		89.2		5.20		TAS				m_e	
CLZ	100.13		Pdiff	10:03:13.890		89.1		4.51		TAS				m_e	
FLT1	99.59		SKSac	10:13:36.368	-0.0	89.2		5.20		TAS				m_e	
FLT1	99.59		Pdiff	10:03:10.715		89.1		4.51		TAS				m_e	
FUR	99.59		Pdiff	10:03:11.535		89.1		4.51		TAS				m_e	
GEC2	97.99		SKSac	10:13:29.239	0.3	89.2		5.20		TAS				m_e	
GEC2	97.99		Pdiff	10:03:04.486	-0.3	89.1		4.51		TAS				m_e	
GOR1	99.54		Pdiff	10:03:11.076		89.1		4.51		TAS				m_e	
GRA1	99.63		SKSac	10:13:37.731	0.8	89.2		5.20		TAS				m_e	
GRA1	99.63		Pdiff	10:03:12.023		89.1		4.51		TAS				m_e	

GTTG	100.40	Pdiff	10:03:14.989		89.1	4.51	TAS	m_e
IBBN	101.73	Pdiff	10:03:21.078		89.1	4.51	TAS	m_e
KAST	101.38	Pdiff	10:03:19.512		89.1	4.51	TAS	m_e
MOX	99.37	SKSac	10:13:35.424	-0.4	89.2	5.20	TAS	m_e
MOX	99.37	Pdiff	10:03:10.444		89.1	4.51	TAS	m_e
NEUB	99.27	SKSac	10:13:34.795	0.3	89.2	5.20	TAS	m_e
NEUB	99.27	Pdiff	10:03:09.723		89.1	4.51	TAS	m_e
PLN	99.02	SKSac	10:13:34.166	-0.8	89.2	5.20	TAS	m_e
PLN	99.02	Pdiff	10:03:09.000	0.1	89.1	4.51	TAS	m_e
RUE	98.04	SKSac	10:13:28.533		89.2	5.20	TAS	m_e
RUE	98.04	Pdiff	10:03:04.628	0.2	89.1	4.51	TAS	m_e
SCHI	98.62	SKSac	10:13:33.223	-0.7	89.2	5.20	TAS	m_e
SCHI	98.62	Pdiff	10:03:07.237	-1.1	89.1	4.51	TAS	m_e
STU	100.97	Pdiff	10:03:17.953		89.1	4.51	TAS	m_e
TANN	98.83	SKSac	10:13:33.747	-0.6	89.2	5.20	TAS	m_e
TANN	98.83	Pdiff	10:03:08.160	0.1	89.1	4.51	TAS	m_e
TNS	101.40	SKSac	10:13:47.375		89.2	5.20	TAS	m_e
TNS	101.40	Pdiff	10:03:19.809		89.1	4.51	TAS	m_e
UBBA	100.39	Pdiff	10:03:13.932		89.1	4.51	TAS	m_e
UBR	100.38	SKSac	10:13:41.400		89.2	5.20	TAS	m_e
UBR	100.38	Pdiff	10:03:14.853		89.1	4.51	TAS	m_e
WET	98.54	Pdiff	10:03:06.943	0.4	89.1	4.51	TAS	m_e
WLF	102.92	Pdiff	10:03:27.375		89.1	4.51	TAS	m_e

Event 21203009 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/03	11:00:37.54			-23.1810	171.4590				33.0			34		145.75	151.73	m i k e	BGR
21203015																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	150.03		PKPbc	11:20:25.004	0.1	37.5		2.64		TAS					a_e
ASSE	147.50		PKPbc	11:20:18.204	0.3	37.5		2.64		TAS					a_e
BFO	151.49		PKPbc	11:20:28.104		37.5		2.64		TAS					a_e
BRG	147.26		PKPbc	11:20:17.554	0.1	37.5		2.64		TAS					a_e
BSEG	146.10		PKPbc	11:20:13.904	-0.4	37.5		2.64		TAS					a_e
BUG	149.19		PKPbc	11:20:22.504	-0.0	37.5		2.64		TAS					a_e
CLL	147.30		PKPbc	11:20:17.404	0.3	37.5		2.64		TAS					a_e
CLZ	147.84		PKPbc	11:20:19.354	-0.3	37.5		2.64		TAS					a_e
DAVA	151.73		PKPbc	11:20:29.085		37.5		2.64		TAS					m_e
FLT1	147.13		PKPbc	11:20:16.804	-0.1	37.5		2.64		TAS					a_e
FUR	150.46		PKPbc	11:20:25.962	-0.4	37.5		2.64		TAS					m_e
GEC2	148.90		PKPbc	11:20:22.054	-0.4	37.5		2.64		TAS					a_e
GOR1	146.57		PKPbc	11:20:15.754	0.1	37.5		2.64		TAS					a_e

GRA1	149.28	PKPbc	11:20:22.704	-0.3	37.5	2.64	TAS	m_e
GTTG	148.23	PKPbc	11:20:20.354	0.3	37.5	2.64	TAS	a_e
IBBN	148.29	PKPbc	11:20:20.204	0.1	37.5	2.64	TAS	a_e
KAST	149.03	PKPbc	11:20:22.354	-0.0	37.5	2.64	TAS	a_e
KBA	150.35	PKPbc	11:20:25.053	-0.2	37.5	2.64	TAS	m_e
LESA	150.41	PKPbc	11:20:25.559	-0.2	37.5	2.64	TAS	m_e
MOTA	151.17	PKPbc	11:20:27.576		37.5	2.64	TAS	m_e
MOX	148.36	PKPbc	11:20:20.454	0.0	37.5	2.64	TAS	a_e
NEUB	147.87	PKPbc	11:20:19.204	0.4	37.5	2.64	TAS	m_e
PLN	148.28	PKPbc	11:20:20.404	0.2	37.5	2.64	TAS	a_e
RUE	146.09	PKPbc	11:20:13.954	0.0	37.5	2.64	TAS	a_e
SCHI	145.75	PKPbc	11:20:12.954	-0.8	37.5	2.64	TAS	a_e
SQTA	151.22	PKPbc	11:20:27.740		37.5	2.64	TAS	m_e
STU	150.80	PKPbc	11:20:26.804	-0.5	37.5	2.64	TAS	a_e
TANN	148.22	PKPbc	11:20:20.354	2.1	37.5	2.64	TAS	a_e
TNS	149.86	PKPbc	11:20:24.604	0.0	37.5	2.64	TAS	a_e
UBBA	148.82	PKPbc	11:20:23.654	0.6	37.5	2.64	TAS	a_e
UBR	151.32	PKPbc	11:20:27.754		37.5	2.64	TAS	a_e
WET	149.03	PKPbc	11:20:22.654	0.2	37.5	2.64	TAS	a_e
WLF	151.09	PKPbc	11:20:27.954	-0.1	37.5	2.64	TAS	a_e
WTTA	151.00	PKPbc	11:20:27.421		37.5	2.64	TAS	m_e

Event 21203010 Northern Colombia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/03	11:41:43.70			7.5110	-75.5120				33.0			30		78.93	85.25	m i k e	BGR
OrigID 21203016																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	21203016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	79.54		P	11:53:47.489	0.0	272.4		5.23		TAS		50.3	1.41	m_e mb	5.2
ARSA	85.25		P	11:54:16.680		272.4		5.23		TAS		6.4	0.82	m_e mb	4.9
ASSE	81.78		P	11:53:59.076	0.2	272.4		5.23		TAS				m_e	
BFO	80.36		P	11:53:51.000	-0.3	272.4		5.23		TAS		7.3	0.87	m_e mb	4.6
BRG	83.89		P	11:54:10.217		272.4		5.23		TAS		37.0	1.75	m_e mb	5.3
BUG	79.68		P	11:53:47.916	-0.2	272.4		5.23		TAS		16.3	1.01	m_e mb	4.9
CLL	83.27		P	11:54:06.765		272.4		5.23		TAS		15.6	1.16	m_e mb	5.1
CLZ	81.61		P	11:53:58.499		272.4		5.23		TAS		6.2	0.89	m_e mb	4.7
DAVA	81.42		P	11:53:57.732	-0.1	272.4		5.23		TAS		19.4	0.89	m_e mb	5.1
FETA	82.01		P	11:54:00.505	0.3	272.4		5.23		TAS		14.0	0.93	m_e mb	5.1
FLT1	82.12		P	11:54:00.545	0.1	272.4		5.23		TAS		8.0	0.82	m_e mb	4.9
GEC2	83.89		P	11:54:10.055		272.4		5.23		TAS		11.8	0.99	m_e mb	5.1
GOR1	82.14		P	11:54:01.505	0.0	272.4		5.23		TAS		23.8	0.23	m_e mb	5.9
GRA1	82.22		P	11:54:01.704	-0.0	272.4		5.23		TAS		6.6	0.84	m_e mb	4.8

GTTG	81.36	P	11:53:57.344	0.5	272.4	5.23	TAS	6.7	0.87	m_e	mb	4.7
IBBN	79.99	P	11:53:49.612	-0.2	272.4	5.23	TAS	17.4	0.96	m_e	mb	5.0
KAST	80.39	P	11:53:51.621	0.1	272.4	5.23	TAS	16.7	1.38	m_e	mb	4.8
KBA	83.79	P	11:54:09.540		272.4	5.23	TAS	10.9	1.08	m_e	mb	5.0
MOA	84.35	P	11:54:12.454		272.4	5.23	TAS	7.5	0.76	m_e	mb	5.0
MOX	82.43	P	11:54:02.416	-0.1	272.4	5.23	TAS	3.2	0.77	m_e	mb	4.5
NEUB	82.50	P	11:54:03.094	-0.2	272.4	5.23	TAS	73.4	2.12	m_e	mb	5.5
PLN	82.78	P	11:54:04.460	-0.1	272.4	5.23	TAS	13.4	1.82	m_e	mb	4.9
SCHI	83.05	P	11:54:06.341		272.4	5.23	TAS	28.7	0.74	m_e	mb	5.6
SQTA	82.33	P	11:54:02.323	-0.2	272.4	5.23	TAS	13.9	1.18	m_e	mb	5.0
STU	80.92	P	11:53:55.005	0.4	272.4	5.23	TAS	32.4	0.93	m_e	mb	5.3
TANN	82.98	P	11:54:05.453	-0.6	272.4	5.23	TAS	9.0	1.11	m_e	mb	4.9
TNS	80.42	P	11:53:52.158	0.3	272.4	5.23	TAS	12.0	1.02	m_e	mb	4.8
UBBA	81.40	P	11:53:56.550	0.3	272.4	5.23	TAS	15.0	1.30	m_e	mb	4.9
UBR	81.56	P	11:53:58.324	-0.4	272.4	5.23	TAS	4.9	0.88	m_e	mb	4.7
WET	83.33	P	11:54:07.600		272.4	5.23	TAS	9.8	0.99	m_e	mb	5.0
WLF	78.93	P	11:53:44.146	-0.1	272.4	5.23	TAS	22.2	0.96	m_e	mb	5.2

Event 21204002 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	03:39:59.13			53.6330	-35.7440				10.0			26		25.91	30.78	m i ke	BGR
21204008																	

Magnitude Err Nsta Author OrigID
 mb 4.9 BGR 21204008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	26.17	P		03:45:32.602	-0.1	296.1		8.89		TAS		23.7	1.29	m_e	mb 4.7
ASSE	27.64	P		03:45:45.302	0.1	296.1		8.89		TAS		27.3	1.33	m_e	mb 4.9
BFO	27.87	P		03:45:47.544	0.3	296.1		8.89		TAS		22.7	1.22	m_e	mb 4.9
BRG	30.02	P		03:46:05.871	-0.6	296.1		8.89		TAS		12.9	0.99	m_e	mb 4.7
BSEG	26.82	P		03:45:37.234	0.7	296.1		8.89		TAS		32.9	1.18	m_e	mb 4.9
BUG	25.94	P		03:45:29.118	-1.5	296.1		8.89		TAS		33.7	1.22	m_e	mb 4.8
CLL	29.30	P		03:45:59.411	-0.6	296.1		8.89		TAS		35.0	0.99	m_e	mb 5.2
CLZ	27.58	P		03:45:44.997	0.2	296.1		8.89		TAS		28.2	1.11	m_e	mb 5.0
FLT1	27.89	P		03:45:46.595	-0.6	296.1		8.89		TAS		18.9	1.02	m_e	mb 4.9
FUR	29.68	P		03:46:03.816	0.1	296.1		8.89		TAS		30.8	1.03	m_e	mb 5.1
GEC2	30.78	P		03:46:13.425		296.1		8.89		TAS		24.4	1.11	m_e	mb 5.0
GOR1	27.69	P		03:45:45.297	0.4	296.1		8.89		TAS		35.4	1.23	m_e	mb 5.1
GRA1	28.95	P		03:45:57.978	0.5	296.1		8.89		TAS		36.6	1.31	m_e	mb 5.0
GTTG	27.46	P		03:45:43.993	0.1	296.1		8.89		TAS		48.6	0.97	m_e	mb 5.2
IBBN	25.91	P		03:45:29.516	-0.5	296.1		8.89		TAS		52.0	0.99	m_e	mb 5.1
KAST	26.69	P		03:45:36.475	-0.8	296.1		8.89		TAS		35.6	1.11	m_e	mb 5.0
MOX	28.77	P		03:45:55.037	-0.7	296.1		8.89		TAS		13.3	1.16	m_e	mb 4.7
NEUB	28.63	P		03:45:54.134	-0.2	296.1		8.89		TAS		18.6	0.99	m_e	mb 4.9

./bul2212.txt

Thu Feb 15 10:44:56 2024

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PLN	29.15	P	03:45:58.372	-0.7	296.1	8.89	TAS	10.2	1.05	m_e	mb	4.6
RUE	29.28	P	03:45:59.954	1.0	296.1	8.89	TAS	23.5	0.87	m_e	mb	5.0
SCHI	28.44	P	03:45:52.241	1.4	296.1	8.89	TAS	110.5	1.17	m_e	mb	5.6
STU	28.17	P	03:45:50.362	0.1	296.1	8.89	TAS	52.9	1.41	m_e	mb	5.2
TANN	29.36	P	03:46:00.389	-0.5	296.1	8.89	TAS	32.9	1.01	m_e	mb	5.1
TNS	27.10	P	03:45:40.871	-0.1	296.1	8.89	TAS	18.6	1.05	m_e	mb	4.8
UBR	29.23	P	03:46:00.372	1.1	296.1	8.89	TAS	12.4	1.05	m_e	mb	4.7
WET	30.16	P	03:46:07.952		296.1	8.89	TAS	14.8	1.16	m_e	mb	4.7
WLF	25.99	P	03:45:32.172	1.3	296.1	8.89	TAS	18.0	1.10	m_e	mb	4.6

Event 21204003 Chagos Archipelago region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	06:44:50.21			-7.6250	68.2240				33.0				4	74.73	76.23	m i ke	BGR
OrigID 21204009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	21204009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
FUR	74.73		P	06:56:28.556		120.0		7.08		TAS		18.9	0.74	m_e	mb	5.2
GRA1	75.54		P	06:56:32.438		120.0		7.08		TAS		11.0	1.07	m_e	mb	4.9
PLN	75.43		P	06:56:33.901		120.0		7.08		TAS		2.0	0.95	m_e	mb	4.1
STU	76.23		P	06:56:36.925		120.0		7.08		TAS		20.1	0.73	m_e	mb	5.3
UBR	75.17		P	06:56:30.489		120.0		7.08		TAS		17.3	0.97	m_e	mb	5.0

Event 21204004 Sicily, Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2022/12/04	07:12:45.40	5.50	1.02	38.3860	14.8550	112.3	48.9	169	3.0				19	341	8.12	12.98	m i ke	INGV
OrigID 21204094																		

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	8.87		Pn	07:14:54.028	0.5					T__					m_e	
BFO	11.01		Pn	07:15:23.369	-1.9					T__					m_e	
BRG	12.50		Pn	07:15:43.087	0.4					T__					m_e	
CLL	12.98		Pn	07:15:50.222	0.9					T__					m_e	
DAVA	9.61		Pn	07:15:07.340	0.7					T__					m_e	
FETA	9.14		Pn	07:14:59.680	-0.7					T__					m_e	
GEC2	10.48		Pn	07:15:15.905	-0.8					T__					m_e	
GRA1	11.59		Pn	07:15:33.733	1.2					T__					m_e	

KBA	8.75	Pn	07:14:54.314	0.3	T__	m_e
LESA	9.17	Pn	07:14:59.611	-0.4	T__	m_e
MOA	9.47	Pn	07:15:02.887	0.1	T__	m_e
MOTA	9.36	Pn	07:15:03.223	0.0	T__	m_e
MOX	12.47	Pn	07:15:42.484	-1.0	T__	m_e
OBKA	8.12	Pn	07:14:44.157	-0.4	T__	m_e
RETA	9.57	Pn	07:15:06.602	0.5	T__	m_e
SQTA	9.22	Pn	07:15:00.325	-1.0	T__	m_e
UBR	9.91	Pn	07:15:13.293	2.6	T__	m_e
WET	10.84	Pn	07:15:20.402	-1.6	T__	m_e
WTTA	9.18	Pn	07:15:01.175	0.6	T__	m_e

Event 21204005 Gabon

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	09:53:17.10			-0.8900	10.5600				33.0			29		48.40	54.95	m i ke	BGR
OrigID 21204011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	21204011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	51.35	P		10:02:19.199	0.4	180.5		7.46		TAS		88.5	1.33	m_e mb	5.5
ASSE	52.85	P		10:02:30.753	0.5	180.5		7.46		TAS		63.2	1.33	m_e mb	5.4
BFO	49.09	P		10:02:02.084	0.0	180.5		7.46		TAS		136.1	1.09	m_e mb	5.9
BRG	51.67	P		10:02:21.547	0.3	180.5		7.46		TAS		52.1	0.88	m_e mb	5.5
BSEG	54.66	P		10:02:42.896	-0.9	180.5		7.46		TAS				m_e	
BUG	52.23	P		10:02:25.761	0.2	180.5		7.46		TAS		78.8	1.30	m_e mb	5.5
CLL	52.07	P		10:02:24.337	0.0	180.5		7.46		TAS		69.3	1.17	m_e mb	5.5
CLZ	52.56	P		10:02:27.945	-0.2	180.5		7.46		TAS		59.9	1.07	m_e mb	5.5
FLT1	53.05	P		10:02:31.281	-0.5	180.5		7.46		TAS		85.8	1.11	m_e mb	5.6
FUR	48.88	P		10:02:00.408	-0.3	180.5		7.46		TAS		70.8	0.81	m_e mb	5.7
GEC2	49.64	P		10:02:06.529	0.5	180.5		7.46		TAS		125.2	1.32	m_e mb	5.7
GOR1	53.71	P		10:02:37.439	0.7	180.5		7.46		TAS		92.5	1.30	m_e mb	5.7
GRA1	50.41	P		10:02:12.190	0.1	180.5		7.46		TAS		124.1	0.95	m_e mb	5.8
GTTG	52.27	P		10:02:26.378	0.4	180.5		7.46		TAS		122.7	1.14	m_e mb	5.7
HLG	54.95	P		10:02:45.703	-0.2	180.5		7.46		TAS		273.3	1.02	m_e mb	6.2
IBBN	53.08	P		10:02:32.061	0.2	180.5		7.46		TAS		154.6	1.09	m_e mb	5.8
KAST	51.95	P		10:02:23.691	0.2	180.5		7.46		TAS		92.9	1.28	m_e mb	5.6
MOX	51.37	P		10:02:19.123	-0.1	180.5		7.46		TAS		40.7	0.92	m_e mb	5.3
NEUB	51.92	P		10:02:23.555	0.2	180.5		7.46		TAS		124.6	1.07	m_e mb	5.8
PLN	51.22	P		10:02:17.794	-0.3	180.5		7.46		TAS		10.9	1.07	m_e mb	4.7
RUE	53.26	P		10:02:33.394	0.2	180.5		7.46		TAS		112.8	1.22	m_e mb	5.7
SCHI	54.09	P		10:02:39.473	-0.0	180.5		7.46		TAS		171.3	1.01	m_e mb	6.0
STU	49.50	P		10:02:05.430	0.2	180.5		7.46		TAS		402.1	1.20	m_e mb	6.3
TANN	51.16	P		10:02:17.678	0.1	180.5		7.46		TAS		41.4	1.19	m_e mb	5.2

TNS	50.97	P	10:02:16.191	-0.0	180.5	7.46	TAS	100.2	0.89	m_e	mb	5.8
UBBA	51.54	P	10:02:19.298	-1.2	180.5	7.46	TAS	210.8	1.42	m_e	mb	5.9
UBR	48.40	P	10:01:56.167	-0.9	180.5	7.46	TAS	116.5	1.08	m_e	mb	5.9
WET	49.90	P	10:02:08.431	0.3	180.5	7.46	TAS	185.6	1.17	m_e	mb	5.9
WLF	50.52	P	10:02:12.960	0.4	180.5	7.46	TAS	216.0	1.16	m_e	mb	6.0

Event 21204006 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	11:14:07.79	4.38	0.33	54.2420	-34.2300	66.7	38.9	81	10.0			32	346	24.89	31.65	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	21204012
Ms	5.0		BGR	21204012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	25.19	P		11:19:32.729	0.3					T__		159.2	1.89	m_e	mb	5.4
ARSA	31.65	P		11:20:30.315	-0.1					T__		18.8	1.05	m_e	mb	5.0
ASSE	26.62	P		11:19:45.608	0.1					T__		62.7	1.48	m_e	mb	5.1
BFO	26.91	P		11:19:47.750	-0.5					T__		123.4	1.67	m_e	mb	5.4
BRG	29.00	P		11:20:06.490	-0.4					T__		23.9	1.03	m_e	mb	5.0
BSEG	25.78	P		11:19:37.763	-0.1					T__		378.8	1.83	m_e	mb	5.7
BUG	24.94	P		11:19:30.411	0.3					T__		164.9	1.68	m_e	mb	5.5
CLL	28.28	P		11:20:00.119	-0.3					T__		62.8	1.11	m_e	mb	5.3
CLZ	26.56	P		11:19:45.121	0.1					T__		92.7	1.41	m_e	mb	5.3
FETA	28.97	P		11:20:07.370	0.7					T__		102.5	1.68	m_e	mb	5.4
FLT1	26.86	P		11:19:47.207	-0.5					T__		34.1	1.14	m_e	mb	5.0
FUR	28.71	P		11:20:04.577	0.2					T__		189.3	1.75	m_e	mb	5.6
GEC2	29.79	P		11:20:13.705	-0.2					T__		77.9	1.42	m_e	mb	5.3
GOR1	26.66	P		11:19:45.917	0.0					T__		236.7	1.78	m_e	mb	5.6
GRA1	27.96	P		11:19:57.863	0.3					T__		115.8	1.47	m_e	mb	5.5
GRA1	27.96	L		11:30:41.538						T__		4420.6	18.20	a_e	Ms	5.1
GTTG	26.44	P		11:19:44.508	0.6					T__		98.1	1.17	m_e	mb	5.3
IBBN	24.89	P		11:19:29.892	0.2					T__		113.7	1.16	m_e	mb	5.5
KAST	25.69	P		11:19:36.632	-0.5					T__		86.7	1.33	m_e	mb	5.2
LESA	29.90	P		11:20:15.101	0.2					T__		125.2	1.70	m_e	mb	5.5
MOA	30.61	P		11:20:21.146	-0.0					T__		77.1	1.48	m_e	mb	5.4
MOTA	29.02	P		11:20:07.230	0.1					T__		103.2	1.66	m_e	mb	5.4
MOX	27.76	P		11:19:55.685	-0.2					T__		167.1	2.11	m_e	mb	5.5
MOX	27.76	L		11:29:47.672						T__		3569.5	21.90	a_e	Ms	4.9
NEUB	27.62	P		11:19:54.767	0.2					T__		182.0	1.75	m_e	mb	5.6
PLN	28.14	P		11:19:59.264	0.0					T__		26.2	1.21	m_e	mb	4.9
RUE	28.24	P		11:20:00.293	0.2					T__		92.9	1.35	m_e	mb	5.4
SCHI	27.39	P		11:19:52.670	0.1					T__		345.8	1.48	m_e	mb	5.9
STU	27.21	P		11:19:51.010	0.2					T__		88.9	1.30	m_e	mb	5.3

TANN	28.35	P	11:20:00.962	-0.1	T__	69.5	1.18	m_e	mb	5.4
TNS	26.12	P	11:19:41.367	0.4	T__	115.6	1.54	m_e	mb	5.3
UBR	28.27	P	11:19:59.877	-0.5	T__	90.6	1.77	m_e	mb	5.3
WET	29.17	P	11:20:08.226	-0.2	T__	74.8	1.58	m_e	mb	5.3
WLF	25.03	P	11:19:30.109	-0.8	T__	64.2	1.43	m_e	mb	5.2

Event 21204007 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	19:00:08.38			-22.1380	171.2400				146.5	4.2		28		144.71	150.46	m i ke	BGR
	21204013																

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	148.99		PKPbc	19:19:38.155	-0.1	37.0		2.73		TAS				a_e	
ASSE	146.46		PKPbc	19:19:31.190	0.1	37.0		2.73		TAS				m_e	
BFO	150.46		PKPbc	19:19:41.405		37.0		2.73		TAS				m_e	
BRG	146.24		PKPbc	19:19:30.505	0.0	37.0		2.73		TAS				a_e	
BSEG	145.05		PKPbc	19:19:27.655	-0.2	37.0		2.73		TAS				a_e	
BUG	148.14		PKPbc	19:19:36.855	0.4	37.0		2.73		TAS				a_e	
CLL	146.28		PKPbc	19:19:30.355	0.3	37.0		2.73		TAS				a_e	
CLZ	146.80		PKPbc	19:19:32.405	0.3	37.0		2.73		TAS				a_e	
CLZ	146.80		pPKPbc	19:20:11.008		37.5		2.85		TAS				m_e	
FLT1	146.10		PKPbc	19:19:29.755	-0.2	37.0		2.73		TAS				a_e	
FUR	149.44		PKPbc	19:19:39.418	0.1	37.0		2.73		TAS				m_e	
GEC2	147.88		PKPbc	19:19:35.155	0.1	37.0		2.73		TAS				a_e	
GOR1	145.53		PKPbc	19:19:28.455	-0.4	37.0		2.73		TAS				a_e	
GRA1	148.25		PKPbc	19:19:36.493	-0.1	37.0		2.73		TAS				m_e	
GTTG	147.19		PKPbc	19:19:33.455	-0.3	37.0		2.73		TAS				a_e	
GTTG	147.19		pPKPbc	19:20:12.473		37.5		2.85		TAS				m_e	
IBBN	147.24		PKPbc	19:19:33.305	-1.2	37.0		2.73		TAS				a_e	
IBBN	147.24		pPKPbc	19:20:11.982		37.5		2.85		TAS				m_e	
KAST	147.99		PKPbc	19:19:35.555	0.6	37.0		2.73		TAS				a_e	
KAST	147.99		pPKPbc	19:20:14.137		37.5		2.85		TAS				m_e	
MOX	147.33		PKPbc	19:19:33.605	0.1	37.0		2.73		TAS				a_e	
NEUB	146.83		PKPbc	19:19:32.155	0.3	37.0		2.73		TAS				a_e	
PLN	147.25		PKPbc	19:19:33.505	0.1	37.0		2.73		TAS				a_e	
RUE	145.06		PKPbc	19:19:26.605	0.1	37.0		2.73		TAS				a_e	
SCHI	144.71		PKPbc	19:19:26.555	-0.6	37.0		2.73		TAS				a_e	
STU	149.77		PKPbc	19:19:40.055	-0.6	37.0		2.73		TAS				a_e	
TANN	147.19		PKPbc	19:19:33.405	0.3	37.0		2.73		TAS				m_e	
TANN	147.19		pPKPbc	19:20:10.896		37.5		2.85		TAS				m_e	
TNS	148.82		PKPbc	19:19:37.999	0.2	37.0		2.73		TAS				m_e	
UBBA	147.78		PKPbc	19:19:33.555	0.3	37.0		2.73		TAS				a_e	
UBR	150.30		PKPbc	19:19:41.005		37.0		2.73		TAS				a_e	

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WET	148.01	PKPbc	19:19:35.655	0.8	37.0	2.73	TAS	a_e
WET	148.01	pPKPbc	19:20:14.303		37.5	2.85	TAS	m_e
WLF	150.04	PKPbc	19:19:41.305	-0.6	37.0	2.73	TAS	a_e

Event 21204008 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	19:24:14.40			-15.8260	-172.4930				33.0			18		141.63	148.07	m i ke	BGR
OrigID 21204014																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.9		BGR	21204014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	145.28		PKPbc	19:43:47.570	0.8	6.5		3.14		TAS				m_e	
AHRW	145.28		PP	19:47:14.178		6.4		5.89		TAS				m_e	
ASSE	143.60		PKPbc	19:43:42.218	0.2	6.5		3.14		TAS				m_e	
ASSE	143.60		PP	19:47:03.764	-1.2	6.4		5.89		TAS				m_e	
BFO	147.48		PKPbc	19:43:54.512	-1.6	6.5		3.14		TAS				a_e	
BRG	144.57		PKPbc	19:43:44.312	-1.3	6.5		3.14		TAS				m_e	
BSEG	141.82		PKPbc	19:43:36.439	0.1	6.5		3.14		TAS				m_e	
BSEG	141.82		PP	19:46:53.098	0.0	6.4		5.89		TAS				m_e	
BUG	144.38		PKPbc	19:43:44.062	-0.7	6.5		3.14		TAS				a_e	
CLL	144.24		PKPbc	19:43:42.916	-0.5	6.5		3.14		TAS				m_e	
CLL	144.24		PP	19:47:07.026	0.2	6.4		5.89		TAS				m_e	
CLZ	143.90		PKPbc	19:43:43.614	-1.0	6.5		3.14		TAS				m_e	
CLZ	143.90		PP	19:47:05.771	0.1	6.4		5.89		TAS				m_e	
FLT1	143.37		PKPbc	19:43:41.288	0.3	6.5		3.14		TAS				m_e	
FLT1	143.37		PP	19:47:01.882	-0.2	6.4		5.89		TAS				m_e	
FUR	147.51		PKPbc	19:43:54.562		6.5		3.14		TAS				a_e	
FUR	147.51		PP	19:47:26.224		6.4		5.89		TAS				m_e	
GEC2	146.59		PKPbc	19:43:51.912	0.2	6.5		3.14		TAS				a_e	
GOR1	142.71		PKPbc	19:43:39.020	0.7	6.5		3.14		TAS				m_e	
GOR1	142.71		PP	19:46:58.243	0.2	6.4		5.89		TAS				m_e	
GRA1	145.99		PKPbc	19:43:50.262	0.8	6.5		3.14		TAS				a_e	
GRA1	145.99		PP	19:47:18.068		6.4		5.89		TAS				m_e	
GRA1	145.99		L	20:42:26.154						T__		21872.0	21.80	a_e Ms	6.9
GTTG	144.22		PKPbc	19:43:44.080	-0.6	6.5		3.14		TAS				m_e	
HLG	141.63		PKPbc	19:43:36.169	0.1	6.5		3.14		TAS				m_e	
IBBN	143.51		PKPbc	19:43:41.288	0.7	6.5		3.14		TAS				m_e	
KAST	144.61		PKPbc	19:43:45.162	0.1	6.5		3.14		TAS				a_e	
KAST	144.61		PP	19:47:09.661	0.1	6.4		5.89		TAS				m_e	
MOX	145.01		PKPbc	19:43:46.512	0.2	6.5		3.14		TAS				m_e	
MOX	145.01		PP	19:47:11.920		6.4		5.89		TAS				m_e	
MOX	145.01		L	20:45:59.511						T__		20118.6	21.60	a_e Ms	6.9
NEUB	144.46		PKPbc	19:43:44.080	-0.1	6.5		3.14		TAS				m_e	

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NEUB	144.46	PP	19:47:08.406	0.5	6.4	5.89	TAS	m_e
PLN	145.13	PKPbc	19:43:46.174	0.1	6.5	3.14	TAS	m_e
PLN	145.13	PP	19:47:12.924		6.4	5.89	TAS	m_e
RUE	143.01	PKPbc	19:43:40.822	0.1	6.5	3.14	TAS	m_e
RUE	143.01	PP	19:47:00.125	0.4	6.4	5.89	TAS	m_e
SCHI	142.24	PKPbc	19:43:37.797	-0.1	6.5	3.14	TAS	m_e
STU	147.02	PKPbc	19:43:53.154	0.4	6.5	3.14	TAS	m_e
STU	147.02	PP	19:47:23.840		6.4	5.89	TAS	m_e
TANN	145.17	PKPbc	19:43:47.112	0.5	6.5	3.14	TAS	a_e
TANN	145.17	PP	19:47:13.049		6.4	5.89	TAS	m_e
TNS	145.59	PKPbc	19:43:48.762	0.7	6.5	3.14	TAS	a_e
UBBA	144.94	PKPbc	19:43:44.862	-0.6	6.5	3.14	TAS	a_e
UBBA	144.94	PP	19:47:10.289	-0.3	6.4	5.89	TAS	m_e
UBR	148.07	PKPbc	19:43:54.317		6.5	3.14	TAS	m_e
WET	146.39	PKPbc	19:43:51.562	0.4	6.5	3.14	TAS	a_e
WET	146.39	PP	19:47:20.076		6.4	5.89	TAS	m_e
WLF	146.13	PKPbc	19:43:51.062	0.5	6.5	3.14	TAS	a_e

Event 21204009 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/04	23:38:24.05			-16.6020	-171.9740				33.0			27		144.17	149.27	m i ke	BGR
	21204015																

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.04		PKPbc	23:58:00.014	0.0	5.6		2.94		TAS					m_e
BFO	148.26		PKPbc	23:58:05.594		5.6		2.94		TAS					m_e
BUG	145.14		PKPbc	23:57:56.412	0.7	5.6		2.94		TAS					m_e
CLL	145.06		PKPbc	23:57:56.480	-0.0	5.6		2.94		TAS					m_e
CLZ	144.70		PKPbc	23:57:56.141	-0.0	5.6		2.94		TAS					m_e
DAVA	149.27		PKPbc	23:58:08.560		5.6		2.94		TAS					m_e
FLT1	144.17		PKPbc	23:57:54.169	-1.6	5.6		2.94		TAS					m_e
FUR	148.31		PKPbc	23:58:06.636		5.6		2.94		TAS					m_e
GEC2	147.42		PKPbc	23:58:03.615	-0.4	5.6		2.94		TAS					m_e
GRA1	146.80		PKPbc	23:58:02.310	-0.4	5.6		2.94		TAS					m_e
GTTG	145.01		PKPbc	23:57:57.279	0.3	5.6		2.94		TAS					m_e
KAST	145.38		PKPbc	23:57:57.309	0.0	5.6		2.94		TAS					m_e
KBA	149.20		PKPbc	23:58:08.413		5.6		2.94		TAS					m_e
LESA	148.93		PKPbc	23:58:07.988		5.6		2.94		TAS					m_e
MOX	145.82		PKPbc	23:57:58.250	-0.5	5.6		2.94		TAS					m_e
NEUB	145.27		PKPbc	23:57:57.076	0.4	5.6		2.94		TAS					m_e
PLN	145.94		PKPbc	23:57:58.922	0.5	5.6		2.94		TAS					m_e
RETA	149.02		PKPbc	23:58:08.340		5.6		2.94		TAS					m_e
SQTA	149.26		PKPbc	23:58:08.957		5.6		2.94		TAS					m_e

STU	147.80	PKPbc	23:58:05.340		5.6	2.94	TAS	m_e
TANN	145.99	PKPbc	23:57:59.252	-0.2	5.6	2.94	TAS	m_e
TNS	146.37	PKPbc	23:58:00.480	0.1	5.6	2.94	TAS	m_e
UBBA	145.73	PKPbc	23:57:56.951	0.7	5.6	2.94	TAS	m_e
UBR	148.86	PKPbc	23:58:07.544		5.6	2.94	TAS	m_e
WET	147.21	PKPbc	23:58:03.066	0.1	5.6	2.94	TAS	m_e
WLF	146.89	PKPbc	23:58:02.783	0.2	5.6	2.94	TAS	m_e
WTTA	149.18	PKPbc	23:58:08.901		5.6	2.94	TAS	m_e

Event 21205002 Bay of Bengal

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/05	03:02:56.63			18.5800	89.9800				56.5	1.8		27		67.03	72.11	m i k e	BGR
OrigID 21205008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	21205008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	71.40		P	03:14:10.450		86.5		6.19		TAS		32.2	1.40	m_e mb	5.3
AHRW	71.40		pP	03:14:26.646	-0.3	86.4		6.29		TAS				m_e	
ASSE	69.01		P	03:13:56.042	-0.3	86.5		6.19		TAS		13.1	0.96	m_e mb	5.1
ASSE	69.01		pP	03:14:11.526	-0.4	86.4		6.29		TAS				m_e	
BFO	70.85		P	03:14:07.784	-0.1	86.5		6.19		TAS		7.0	0.97	m_e mb	4.8
BFO	70.85		pP	03:14:23.027	-0.4	86.4		6.29		TAS				m_e	
BRG	67.03		P	03:13:43.720	-0.3	86.5		6.19		TAS		14.6	0.85	m_e mb	5.2
BRG	67.03		pP	03:13:59.296	-0.2	86.4		6.29		TAS				m_e	
BSEG	69.12		P	03:13:57.080	0.2	86.5		6.19		TAS		42.5	0.94	m_e mb	5.7
BSEG	69.12		pP	03:14:12.931	0.5	86.4		6.29		TAS				m_e	
BUG	71.18		P	03:14:09.718		86.5		6.19		TAS		29.9	0.99	m_e mb	5.4
BUG	71.18		pP	03:14:25.515	-0.1	86.4		6.29		TAS				m_e	
CLL	67.61		P	03:13:47.115	-0.5	86.5		6.19		TAS		12.5	0.93	m_e mb	5.1
CLL	67.61		pP	03:14:03.014	-0.1	86.4		6.29		TAS				m_e	
CLZ	69.22		P	03:13:57.805	0.2	86.5		6.19		TAS		31.7	1.09	m_e mb	5.5
CLZ	69.22		pP	03:14:13.406	0.2	86.4		6.29		TAS				m_e	
FLT1	68.66		P	03:13:53.381	-0.7	86.5		6.19		TAS		13.5	1.00	m_e mb	5.1
FLT1	68.66		pP	03:14:09.082	-0.6	86.4		6.29		TAS				m_e	
FUR	68.91		P	03:13:55.839	0.3	86.5		6.19		TAS		13.0	0.64	m_e mb	5.3
GEC2	67.26		P	03:13:45.358	0.0	86.5		6.19		TAS		19.6	0.96	m_e mb	5.3
GEC2	67.26		pP	03:14:01.075	-0.0	86.4		6.29		TAS				m_e	
GRA1	68.83		P	03:13:55.129	0.0	86.5		6.19		TAS		26.9	1.16	m_e mb	5.4
GTTG	69.49		P	03:13:59.253	-0.0	86.5		6.19		TAS		41.2	1.08	m_e mb	5.5
GTTG	69.49		pP	03:14:14.919	-0.2	86.4		6.29		TAS				m_e	
IBBN	70.78		P	03:14:07.395	-0.7	86.5		6.19		TAS		36.0	0.91	m_e mb	5.5
IBBN	70.78		pP	03:14:23.224	-0.3	86.4		6.29		TAS				m_e	
KAST	70.49		P	03:14:05.569	0.1	86.5		6.19		TAS		9.6	0.74	m_e mb	5.0

KAST	70.49	pP	03:14:21.035	0.1	86.4	6.29	TAS											m_e
MOX	68.52	P	03:13:53.216	-0.0	86.5	6.19	TAS	16.0	0.91	m_e	mb							5.2
MOX	68.52	pP	03:14:08.784	0.0	86.4	6.29	TAS											m_e
NEUB	68.39	P	03:13:52.138	-0.3	86.5	6.19	TAS	19.6	0.92	m_e	mb							5.3
NEUB	68.39	pP	03:14:07.711	0.1	86.4	6.29	TAS											m_e
PLN	68.18	P	03:13:50.932	-0.2	86.5	6.19	TAS	4.1	0.89	m_e	mb							4.7
PLN	68.18	pP	03:14:06.755	0.2	86.4	6.29	TAS											m_e
RGN	67.34	P	03:13:46.249	0.5	86.5	6.19	TAS	77.0	0.98	m_e	mb							5.9
RUE	67.10	P	03:13:44.392	-0.0	86.5	6.19	TAS	59.4	1.09	m_e	mb							5.7
RUE	67.10	pP	03:13:59.879	0.5	86.4	6.29	TAS											m_e
SCHI	67.64	P	03:13:48.074	0.3	86.5	6.19	TAS	37.1	0.88	m_e	mb							5.6
STU	70.23	P	03:14:04.392	0.5	86.5	6.19	TAS	25.6	0.82	m_e	mb							5.4
STU	70.23	pP	03:14:19.628		86.4	6.29	TAS											m_e
TANN	67.99	P	03:13:49.912	-0.1	86.5	6.19	TAS	13.9	1.08	m_e	mb							5.1
TANN	67.99	pP	03:14:05.752		86.4	6.29	TAS											m_e
TNS	70.57	P	03:14:06.449	-0.0	86.5	6.19	TAS	24.0	0.85	m_e	mb							5.3
TNS	70.57	pP	03:14:22.000		86.4	6.29	TAS											m_e
UBR	69.74	P	03:14:00.111	0.6	86.5	6.19	TAS	22.2	0.70	m_e	mb							5.4
UBR	69.74	pP	03:14:15.908		86.4	6.29	TAS											m_e
WET	67.79	P	03:13:48.994	0.4	86.5	6.19	TAS	18.7	1.00	m_e	mb							5.3
WET	67.79	pP	03:14:04.654		86.4	6.29	TAS											m_e
WLF	72.11	P	03:14:15.331		86.5	6.19	TAS	22.4	0.97	m_e	mb							5.3
WLF	72.11	pP	03:14:31.972		86.4	6.29	TAS											m_e

Event 21205003 Santa Cruz Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/05	05:35:08.00			-11.3270	166.2040				93.0			20		133.30	138.67	m i ke	USGS
OrigID 21205021																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	21205009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	137.24		PKPdf	05:54:22.064	-0.1	37.1		1.80		TAS					m_e	
ASSE	134.68		PKPdf	05:54:17.401	-0.0	37.1		1.80		TAS					m_e	
BFO	138.67		PKPdf	05:54:24.399		37.1		1.80		TAS					m_e	
BRG	134.45		PKPdf	05:54:17.298	1.1	37.1		1.80		TAS					m_e	
BSEG	133.30		PKPdf	05:54:16.156	-0.4	37.1		1.80		TAS					m_e	
BUG	136.40		PKPdf	05:54:20.284	-0.6	37.1		1.80		TAS					m_e	
CLL	134.49		PKPdf	05:54:16.326	-0.7	37.1		1.80		TAS					m_e	
CLZ	135.02		PKPdf	05:54:17.326	-0.1	37.1		1.80		TAS					m_e	
FLT1	134.32		PKPdf	05:54:16.630	0.4	37.1		1.80		TAS					m_e	
FUR	137.65		PKPdf	05:54:23.000	0.2	37.1		1.80		TAS					m_e	
GEC2	136.11		PKPdf	05:54:20.026	-0.0	37.1		1.80		TAS					m_e	
GRA1	136.46		L	06:59:21.552						T__		563.3	20.50	a_e	Ms	5.3

GTTG	135.41	PKPdf	05:54:18.709	-0.2	37.1	1.80	TAS										m_e
IBBN	135.50	PKPdf	05:54:18.053		37.1	1.80	TAS										m_e
KAST	136.23	PKPdf	05:54:19.629	0.4	37.1	1.80	TAS										m_e
MOX	135.54	PKPdf	05:54:18.685	-0.3	37.1	1.80	TAS										m_e
MOX	135.54	L	06:58:24.158				T__				519.0	21.50	a_e	Ms		5.2	
NEUB	135.04	PKPdf	05:54:17.791	-0.7	37.1	1.80	TAS										m_e
PLN	135.46	PKPdf	05:54:18.757	0.3	37.1	1.80	TAS										m_e
STU	137.98	PKPdf	05:54:23.611		37.1	1.80	TAS										m_e
TNS	137.04	PKPdf	05:54:21.415		37.1	1.80	TAS										m_e
UBR	138.51	PKPdf	05:54:23.438		37.1	1.80	TAS										m_e
WET	136.22	PKPdf	05:54:20.288		37.1	1.80	TAS										m_e
WLF	138.29	PKPdf	05:54:25.094		37.1	1.80	TAS										m_e

Event 21205004 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/05	07:11:25.57			53.9140	-169.4380				33.0			24		72.39	78.65	m i ke	BGR
	21205010																

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	21205010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	75.74		P	07:23:06.727	0.2	0.4		5.67		TAS		10.4	0.88	m_e	mb	5.0
ASSE	74.20		P	07:22:57.510	-0.3	0.4		5.67		TAS		7.4	1.00	m_e	mb	4.7
BFO	77.98		P	07:23:18.797		0.4		5.67		TAS		13.7	1.01	m_e	mb	5.0
BRG	75.41		P	07:23:04.901	0.1	0.4		5.67		TAS		13.0	1.25	m_e	mb	4.9
BSEG	72.39		P	07:22:47.910	-0.6	0.4		5.67		TAS		12.8	0.96	m_e	mb	5.0
BUG	74.85		P	07:23:01.454	0.1	0.4		5.67		TAS		33.2	1.35	m_e	mb	5.2
CLL	75.00		P	07:23:01.964	0.2	0.4		5.67		TAS		9.7	1.13	m_e	mb	4.7
CLZ	74.48		P	07:22:59.759	0.4	0.4		5.67		TAS		14.3	0.97	m_e	mb	5.0
FLT1	73.99		P	07:22:56.115	-0.4	0.4		5.67		TAS		7.3	0.98	m_e	mb	4.7
FUR	78.16		P	07:23:20.777		0.4		5.67		TAS		18.8	0.43	m_e	mb	5.5
GEC2	77.45		P	07:23:16.028		0.4		5.67		TAS		15.3	1.33	m_e	mb	5.0
GRA1	76.63		P	07:23:12.071	-0.3	0.4		5.67		TAS		27.7	1.17	m_e	mb	5.3
GTTG	74.78		P	07:23:01.604	0.1	0.4		5.67		TAS		27.2	1.24	m_e	mb	5.1
IBBN	73.99		P	07:22:56.308	-0.0	0.4		5.67		TAS		23.9	1.10	m_e	mb	5.1
KAST	75.11		P	07:23:02.737	0.1	0.4		5.67		TAS		4.0	0.80	m_e	mb	4.5
MOX	75.68		P	07:23:06.334	0.4	0.4		5.67		TAS		13.4	1.13	m_e	mb	5.0
NEUB	75.13		P	07:23:03.539	-0.1	0.4		5.67		TAS		19.1	1.07	m_e	mb	5.0
PLN	75.83		P	07:23:07.196	-0.3	0.4		5.67		TAS		2.4	1.01	m_e	mb	4.3
STU	77.55		P	07:23:16.928		0.4		5.67		TAS		30.6	0.46	m_e	mb	5.7
TANN	75.90		P	07:23:07.409	0.1	0.4		5.67		TAS		10.3	1.24	m_e	mb	4.8
TNS	76.09		P	07:23:08.620	-0.5	0.4		5.67		TAS		6.3	0.70	m_e	mb	4.8
UBR	78.65		P	07:23:22.758		0.4		5.67		TAS		13.3	1.13	m_e	mb	4.9
WET	77.16		P	07:23:14.887		0.4		5.67		TAS		7.7	1.13	m_e	mb	4.7

WLF 76.60 P 07:23:11.623 0.4 0.4 5.67 TAS 7.0 0.61 m_e mb 5.0

Event 21205005 Tonga Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2022/12/05 14:21:27.51 -16.0460 -174.8080 162.4 2.5 29 143.39 148.68 m i ke BGR
21205011

Magnitude Err Nsta Author OrigID

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Rows include station names like AHRW, ARSA, ASSE, BFO, BRG, BUG, CLL, CLZ, DAVA, FETA, FLT1, FUR, GEC2, GRA1, GTTG, IBBN, KAST, KBA, MOA, MOX, NEUB, PLN, STU, TANN, TNS, UBR, WET, WLF, WTTA.

Event 21205006 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/05	16:19:25.23			-15.7900	-171.9710				46.3	1.2		18		143.36	148.06	m i ke	BGR
OrigID 21205012																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	21205012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	145.23		PKPbc	16:38:56.548		5.5		3.59		TAS				m_e	
ASSE	143.59		PKPbc	16:38:50.269	0.1	5.5		3.59		TAS				m_e	
BFO	147.45		PKPbc	16:39:03.672		5.5		3.59		TAS				m_e	
BFO	147.45		pPKPbc	16:39:17.906		6.5		3.43		TAS				m_e	
BUG	144.34		PKPbc	16:38:52.760	-0.1	5.5		3.59		TAS				m_e	
CLL	144.25		PKPbc	16:38:52.689	0.3	5.5		3.59		TAS				m_e	
FLT1	143.36		PKPbc	16:38:49.095	0.2	5.5		3.59		TAS				m_e	
FUR	147.51		PKPbc	16:39:04.402		5.5		3.59		TAS				m_e	
GEC2	146.62		PKPbc	16:39:00.865		5.5		3.59		TAS				m_e	
GRA1	145.99		PKPbc	16:38:59.099		5.5		3.59		TAS				m_e	
GRA1	145.99		pPKPbc	16:39:12.639		6.5		3.43		TAS				m_e	
GRA1	145.99		L	17:43:33.996						T__		719.9	20.80	a_e Ms	5.4
KAST	144.58		PKPbc	16:38:53.932	-0.1	5.5		3.59		TAS				m_e	
MOX	145.02		PKPbc	16:38:55.305	0.1	5.5		3.59		TAS				m_e	
MOX	145.02		L	17:40:32.467						T__		733.7	21.80	a_e Ms	5.4
PLN	145.14		PKPbc	16:38:55.894		5.5		3.59		TAS				m_e	
STU	147.00		PKPbc	16:39:02.342		5.5		3.59		TAS				m_e	
STU	147.00		pPKPbc	16:39:16.325		6.5		3.43		TAS				m_e	
TANN	145.18		PKPbc	16:38:55.959		5.5		3.59		TAS				m_e	
TNS	145.56		PKPbc	16:38:57.595		5.5		3.59		TAS				m_e	
UBR	148.06		PKPbc	16:39:06.360		5.5		3.59		TAS				m_e	
WET	146.40		PKPbc	16:39:00.277		5.5		3.59		TAS				m_e	
WET	146.40		pPKPbc	16:39:14.094		6.5		3.43		TAS				m_e	
WLF	146.08		PKPbc	16:38:59.903		5.5		3.59		TAS				m_e	
WLF	146.08		pPKPbc	16:39:13.670		6.5		3.43		TAS				m_e	

Event 21206002 Tajikistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/06	16:03:50.41			39.0630	71.3100				33.0					43.14	43.14	m i ke	BGR
OrigID 21206008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	21206008

./bul2212.txt

Thu Feb 15 10:44:56 2024

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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	43.14		P	16:11:47.141		89.0		6.86		TAS		5.9	0.95	m_e	mb 4.3

Event 21207002 Taiwan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/07	16:54:28.51			23.6600	121.6620				33.0			23		81.70	87.26	m i ke	BGR
OrigID 21207008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	21207008
Ms	4.9		BGR	21207008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	86.28		P	17:07:06.703	-0.0	59.6		5.06		TAS		25.8	1.21	a_e	mb 5.2
ASSE	83.53		P	17:06:53.117	0.3	59.6		5.06		TAS		31.6	1.57	m_e	mb 5.3
BFO	86.80		P	17:07:09.273	-0.1	59.6		5.06		TAS		50.0	2.24	m_e	mb 5.2
BRG	82.37		P	17:06:46.727	-0.2	59.6		5.06		TAS		12.6	1.29	m_e	mb 4.9
BSEG	82.79		P	17:06:49.003	0.0	59.6		5.06		TAS		15.2	1.07	a_e	mb 5.2
BUG	85.68		P	17:07:03.603	-0.1	59.6		5.06		TAS		35.4	1.11	a_e	mb 5.4
CLL	82.68		P	17:06:48.053	-0.4	59.6		5.06		TAS		26.4	1.25	a_e	mb 5.3
CLZ	83.83		P	17:06:54.803	0.5	59.6		5.06		TAS		22.3	0.89	a_e	mb 5.4
FLT1	83.13		P	17:06:50.303	-0.4	59.6		5.06		TAS		22.8	1.28	a_e	mb 5.2
FUR	85.21		P	17:07:01.703	0.4	59.6		5.06		TAS		60.9	0.98	a_e	mb 5.8
GEC2	83.48		P	17:06:52.603	0.1	59.6		5.06		TAS		25.1	0.95	m_e	mb 5.4
GRA2	84.41		L	17:48:01.539						T__		522.2	20.00	a_e	Ms 4.9
GTTG	84.20		P	17:06:56.353	0.1	59.6		5.06		TAS		20.8	0.78	a_e	mb 5.4
IBBN	84.96		P	17:07:00.053	0.1	59.6		5.06		TAS		32.1	0.88	a_e	mb 5.6
KAST	85.21		P	17:07:01.353	0.1	59.6		5.06		TAS		13.2	1.08	a_e	mb 5.1
NEUB	83.41		P	17:06:52.103	-0.1	59.6		5.06		TAS		33.3	1.02	a_e	mb 5.5
PLN	83.55		P	17:06:52.853	-0.0	59.6		5.06		TAS		6.8	1.13	a_e	mb 4.8
RUE	81.70		P	17:06:43.403	-0.1	59.6		5.06		TAS		39.3	1.05	a_e	mb 5.5
STU	86.08		P	17:07:05.353	-0.4	59.6		5.06		TAS		40.9	1.00	a_e	mb 5.5
TANN	83.42		P	17:06:52.253	0.0	59.6		5.06		TAS		12.3	1.16	a_e	mb 5.0
TNS	85.72		P	17:07:04.030	0.1	59.6		5.06		TAS		27.2	1.49	m_e	mb 5.2
UBR	86.14		P	17:07:05.703	-0.3	59.6		5.06		TAS		14.4	0.86	a_e	mb 5.1
WET	83.80		P	17:06:54.503	0.3	59.6		5.06		TAS		13.0	1.11	a_e	mb 5.1
WLF	87.26		P	17:07:11.653	-0.1	59.6		5.06		TAS		46.5	0.97	a_e	mb 5.6

Event 21208001 Jawa, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/08	00:50:57.00			-6.7380	107.1590				123.7			10		97.23	100.90	m i ke	USGS
OrigID																	

21208019

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	100.90		Pdiff	01:04:31.735		89.9		4.40		TAS					m_e	
BRG	97.23		Pdiff	01:04:16.054	-0.1	89.9		4.40		TAS					m_e	
BSEG	99.45		Pdiff	01:04:25.756		89.9		4.40		TAS					m_e	
CLZ	99.47		Pdiff	01:04:25.987		89.9		4.40		TAS					m_e	
FUR	98.93		Pdiff	01:04:23.369		89.9		4.40		TAS					m_e	
GEC2	97.33		Pdiff	01:04:16.593	0.1	89.9		4.40		TAS					m_e	
GRA2	98.88		Pdiff	01:04:23.376		89.9		4.40		TAS					m_e	
RUE	97.38		Pdiff	01:04:16.708	-0.1	89.9		4.40		TAS					m_e	
TNS	100.74		Pdiff	01:04:32.330		89.9		4.40		TAS					m_e	
UBR	99.72		Pdiff	01:04:26.903		89.9		4.40		TAS					m_e	
WET	97.88		Pdiff	01:04:19.211	-0.3	89.9		4.40		TAS					m_e	

Event 21208002 Central Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2022/12/08	05:30:06.61	0.60	0.71	43.8600	13.4440	7.8	6.7	34	10.0			23	300	2.76	7.22	m i ke	BGR
21208008																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.1		BGR	21208008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	3.69		Sn	05:31:46.176	-0.2					T__					m_e
ARSA	3.69		Pn	05:31:03.593	-0.0					T__					m_e ML 3.7
BE1	4.34		Pn	05:31:12.615	0.3					T__					m_e ML 4.4
BFO	5.71		Pn	05:31:30.594	-0.3					T__					m_e ML 4.0
DAVA	4.24		Sn	05:32:00.671	1.2					T__					m_e
DAVA	4.24		Pn	05:31:11.276	0.2					T__					m_e ML 4.1
FETA	3.69		Sg	05:32:02.038	-1.9					T__					m_e
FETA	3.69		Pn	05:31:03.870	0.2					T__					m_e ML 4.0
GEC2	4.99		Pn	05:31:20.244	-0.9					T__					m_e ML 4.0
GRA2	5.97		Sn	05:32:35.298						T__					m_e ML 4.3
KBA	3.22		Sn	05:31:34.871	-0.3					T__					m_e ML 3.9
KW1	4.30		Sn	05:32:01.491	0.6					T__					m_e
KW1	4.30		Pn	05:31:11.990	0.1					T__					m_e ML 4.7
LESA	3.60		Sn	05:31:45.993	1.7					T__					m_e
LESA	3.60		Pn	05:31:02.342	-0.1					T__					m_e ML 4.0
MOA	4.03		Pn	05:31:08.552	0.4					T__					m_e ML 3.7
MOTA	3.85		Pn	05:31:06.349	0.6					T__					m_e ML 4.0
OBKA	2.76		Pn	05:30:50.500	-0.6					T__					m_e
PART	3.98		Sn	05:31:53.651	0.2					T__					m_e

PART	3.98	Pn	05:31:08.011	0.4	T__	m_e	ML	3.9
RETA	4.08	Pn	05:31:08.986	0.1	T__	m_e	ML	3.9
RJOB	3.90	Sn	05:31:52.010	0.6	T__	m_e		
RJOB	3.90	Pn	05:31:06.620	0.1	T__	m_e	ML	3.8
ROTZ	5.97	Pn	05:31:32.945	-1.4	T__	m_e	ML	3.9
SQTA	3.71	Pn	05:31:03.678	-0.2	T__	m_e	ML	4.3
TNS	7.22	Pn	05:31:51.582	0.3	T__	m_e	ML	4.2
UBR	4.47	Sn	05:32:04.318	-0.7	T__	m_e		
UBR	4.47	Pn	05:31:13.846	-0.4	T__	m_e	ML	4.3
WALHA	4.92	Pn	05:31:19.842	-0.4	T__	m_e	ML	4.3
WET	5.30	Pn	05:31:24.177	-1.1	T__	m_e	ML	4.0
WTTA	3.63	Pn	05:31:03.492	0.7	T__	m_e	ML	4.4
ZUGS	3.95	Pn	05:31:07.856	0.7	T__	m_e	ML	4.2

Event 21208003 Eastern Caucasus

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/08	06:42:20.30			42.3300	46.3700				69.7			26		23.63	28.59	m i ke	BGR
OrigID 21208009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	21208009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	28.00		P	06:48:05.071		95.6		9.05		TAS		30.3	0.98	m_e	mb 5.1
ASSE	25.89		P	06:47:45.371	-0.6	95.6		9.05		TAS		105.2	1.03	m_e	mb 5.4
BFO	27.19		P	06:47:56.134	-0.1	95.6		9.05		TAS		28.9	1.11	m_e	mb 4.9
BRG	23.69		P	06:47:25.335	-0.4	95.6		9.05		TAS		523.9	1.82	m_e	mb 5.8
BSEG	26.40		P	06:47:49.884	0.2	95.6		9.05		TAS		301.9	1.28	m_e	mb 5.8
BUG	27.92		P	06:48:03.938		95.6		9.05		TAS		33.3	0.91	m_e	mb 5.2
CLL	24.34		P	06:47:31.128	-0.5	95.6		9.05		TAS		154.8	1.07	m_e	mb 5.5
CLZ	26.03		P	06:47:46.228	0.1	95.6		9.05		TAS		119.0	1.13	m_e	mb 5.4
FLT1	25.57		P	06:47:42.231	0.5	95.6		9.05		TAS		80.5	0.83	m_e	mb 5.4
FUR	25.22		P	06:47:39.278	-0.0	95.6		9.05		TAS				m_e	
GEC2	23.63		P	06:47:24.915	0.2	95.6		9.05		TAS		96.6	0.87	m_e	mb 5.3
GRA2	25.21		P	06:47:40.989		95.6		9.05		TAS		99.6	0.98	m_e	mb 5.5
GRA2	25.21		pP	06:47:57.440						T__				m_e	
GTTG	26.25		P	06:47:49.022	0.3	95.6		9.05		TAS		164.8	1.18	m_e	mb 5.5
IBBN	27.69		P	06:48:01.563	0.7	95.6		9.05		TAS		95.8	1.06	m_e	mb 5.6
KAST	27.19		P	06:47:57.178	0.2	95.6		9.05		TAS		136.4	1.25	m_e	mb 5.5
NEUB	25.09		P	06:47:38.387	0.7	95.6		9.05		TAS		255.7	0.96	m_e	mb 5.9
PLN	24.77		P	06:47:35.312	-0.2	95.6		9.05		TAS		23.8	0.79	m_e	mb 5.0
RUE	24.07		P	06:47:28.954	0.4	95.6		9.05		TAS		577.8	1.18	m_e	mb 6.0
SCHI	24.81		P	06:47:35.682	1.0	95.6		9.05		TAS		379.0	0.71	m_e	mb 6.2
STU	26.60		P	06:47:51.798	-0.3	95.6		9.05		TAS		215.9	0.88	m_e	mb 5.9
TANN	24.57		P	06:47:33.423	-0.3	95.6		9.05		TAS		81.0	0.90	m_e	mb 5.5

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TNS	27.12	P	06:47:56.955	-0.2	95.6	9.05	TAS	98.1	1.36	m_e	mb	5.4
UBBA	26.16	P	06:47:45.782	1.1	95.6	9.05	TAS	276.4	1.68	m_e	mb	5.6
UBR	26.01	P	06:47:45.744	-2.4	95.6	9.05	TAS	166.7	1.25	m_e	mb	5.5
WET	24.19	P	06:47:30.217	0.3	95.6	9.05	TAS	156.9	1.41	m_e	mb	5.3
WLF	28.59	P	06:48:10.588		95.6	9.05	TAS	23.3	0.76	m_e	mb	5.1

Event 21208004 Central Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2022/12/08	07:08:19.88	0.62	0.87	43.8720	13.3200	8.9	6.7	170	10.0			28	295	2.78	7.17	m i ke	BGR
21208010																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.3		BGR	21208010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	3.71		Sn	07:09:59.443	-0.8					T__				m_e	
ARSA	3.71		Pn	07:09:16.682	-0.5					T__				m_e	ML 4.1
BE1	4.29		Pn	07:09:25.594	0.6					T__				m_e	ML 4.6
BERGE	5.37		Pn	07:09:39.306	-0.3					T__				m_e	ML 4.0
BFO	5.65		Sn	07:10:45.135	-1.0					T__				m_e	
BFO	5.65		Pn	07:09:42.615	-0.7					T__				m_e	ML 4.1
DAVA	4.18		Sn	07:10:12.238	0.9					T__				m_e	
DAVA	4.18		Pn	07:09:24.392	0.9					T__				m_e	ML 4.3
EMING	5.09		Pn	07:09:35.556	-0.2					T__				m_e	ML 4.4
FETA	3.64		Pn	07:09:16.283	0.1					T__				m_e	ML 4.1
GEC2	4.98		Pn	07:09:33.761	-0.5					T__				m_e	ML 4.3
GRA2	5.94		Sn	07:10:50.624	-0.9					T__				m_e	ML 4.5
KBA	3.21		Sn	07:09:49.207	1.1					T__				m_e	
KBA	3.21		Pn	07:09:10.372	0.1					T__				m_e	ML 4.2
KW1	4.28		Pn	07:09:24.931	0.1					T__				m_e	ML 5.0
LESA	3.58		Pn	07:09:15.182	-0.2					T__				m_e	ML 4.2
MANZ	6.17		Pn	07:09:50.249	-0.1					T__				m_e	ML 4.2
METMA	5.22		Sn	07:10:34.339	-1.7					T__				m_e	
METMA	5.22		Pn	07:09:37.065	-0.5					T__				m_e	ML 4.0
MOA	4.03		Sn	07:10:08.749	1.0					T__				m_e	
MOA	4.03		Pn	07:09:21.597	0.1					T__				m_e	ML 4.2
MOTA	3.80		Pn	07:09:19.386	1.0					T__				m_e	ML 4.2
OBKA	2.78		Pn	07:09:03.817	-0.7					T__				m_e	
PART	3.94		Pn	07:09:21.166	0.9					T__				m_e	ML 4.2
RETA	4.03		Pn	07:09:21.406	-0.1					T__				m_e	ML 4.2
RJOB	3.88		Sn	07:10:05.724	1.5					T__				m_e	
RJOB	3.88		Pn	07:09:19.792	0.3					T__				m_e	ML 4.0
ROTZ	5.94		Pn	07:09:46.367	-0.9					T__				m_e	ML 4.2
SQTA	3.66		Pn	07:09:17.169	0.7					T__				m_e	ML 4.5
STU	5.67		Sn	07:10:45.743	-0.9					T__				m_e	ML 4.5

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TNS	7.17	Pn	07:10:03.741	-0.1	T__	m_e	ML	4.5
UBR	4.42	Sn	07:10:18.054	1.1	T__	m_e		
UBR	4.42	Pn	07:09:26.895	0.2	T__	m_e	ML	4.4
WALHA	4.86	Pn	07:09:32.297	-0.4	T__	m_e	ML	4.5
WET	5.28	Sn	07:10:35.270	-2.2	T__	m_e		
WET	5.28	Pn	07:09:37.103	-1.2	T__	m_e	ML	4.1
WTTA	3.59	Pn	07:09:16.848	1.3	T__	m_e	ML	4.6
ZUGS	3.90	Pn	07:09:21.056	1.3	T__	m_e	ML	4.4

Event 21208005 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/08	10:06:39.51			-15.7970	-172.0870				33.0			12		145.56	148.68	m i ke	BGR
	21208011																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.46		PKPbc	10:26:20.288		5.7		3.71		TAS				m_e	
DAVA	148.46		PKPbc	10:26:24.322		5.7		3.71		TAS				m_e	
FETA	148.68		PKPbc	10:26:25.158		5.7		3.71		TAS				m_e	
GEC2	146.61		PKPbc	10:26:16.983		5.7		3.71		TAS				m_e	
KBA	148.39		PKPbc	10:26:24.743		5.7		3.71		TAS				m_e	
MOTA	148.34		PKPbc	10:26:23.497		5.7		3.71		TAS				m_e	
SQTA	148.45		PKPbc	10:26:24.258		5.7		3.71		TAS				m_e	
TNS	145.56		PKPbc	10:26:13.938		5.7		3.71		TAS				m_e	
UBR	148.06		PKPbc	10:26:21.856		5.7		3.71		TAS				m_e	
WET	146.40		PKPbc	10:26:16.594		5.7		3.71		TAS				m_e	
WLF	146.09		PKPbc	10:26:16.206		5.7		3.71		TAS				m_e	
WTTA	148.38		PKPbc	10:26:24.258		5.7		3.71		TAS				m_e	

Event 21208009 Pacific-Antarctic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/08	14:45:26.00			-63.1470	-163.6690				10.0					166.13	166.13	m i ke	USGS
	21208027																

Magnitude Err Nsta Author OrigID

Ms	5.3	BGR	21208015												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA2	166.13		PKPab	15:06:30.386		189.8		4.62		TAS				m_e	
GRA2	166.13		L	16:23:25.489						T__	432.8	20.00	a_e	Ms	5.3

Event 21209004 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/09	06:32:59.00			13.1590	125.8250				9.0			15		92.52	98.09	m i ke	USGS

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	21209010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	94.38		P	06:46:19.727		62.8		4.79		TAS		25.9	1.48	m_e mb	5.3
BRG	93.12		P	06:46:14.052	-0.0	62.8		4.79		TAS		10.0	1.03	m_e mb	5.2
BUG	96.56		P	06:46:30.959	1.3	62.8		4.79		TAS		33.6	1.57	m_e mb	5.7
CLL	93.46		P	06:46:14.870	0.4	62.8		4.79		TAS		5.6	0.75	m_e mb	5.0
CLZ	94.68		P	06:46:21.467	0.6	62.8		4.79		TAS		36.8	1.41	m_e mb	5.6
FLT1	93.98		P	06:46:18.354	-0.3	62.8		4.79		TAS		32.6	1.64	m_e mb	5.4
FUR	95.88		P	06:46:28.472	0.5	62.8		4.79		TAS		15.0	0.57	m_e mb	5.7
GEC2	94.13		P	06:46:19.110	-0.2	62.8		4.79		TAS		10.1	1.42	m_e mb	5.0
KAST	96.06		P	06:46:28.704		62.8		4.79		TAS		14.5	1.29	m_e mb	5.3
PLN	94.31		P	06:46:19.375		62.8		4.79		TAS		1.5	0.80	m_e mb	4.4
RUE	92.52		P	06:46:11.602		62.8		4.79		TAS		25.0	0.85	m_e mb	5.7
SCHI	92.65		P	06:46:13.147		62.8		4.79		TAS		27.4	0.69	m_e mb	5.8
TANN	94.17		P	06:46:18.798		62.8		4.79		TAS		4.4	1.00	m_e mb	4.8
TNS	96.53		P	06:46:30.054		62.8		4.79		TAS		11.2	1.16	m_e mb	5.4
UBR	96.80		P	06:46:30.622		62.8		4.79		TAS		10.2	1.00	m_e mb	5.4
WET	94.49		P	06:46:20.508		62.8		4.79		TAS		3.1	1.03	m_e mb	4.7
WLF	98.09		P	06:46:37.855		62.8		4.79		TAS		13.8	0.89	m_e mb	5.7

Event 21210002 Near Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/10	22:11:12.95			52.8130	174.5030				33.0			22		72.68	79.45	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	21210008
Ms	4.6		BGR	21210008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	76.34		P	22:22:57.164	0.1	10.3		5.66		TAS		19.4	1.31	m_e mb	5.1
BFO	78.42		P	22:23:08.687		10.3		5.66		TAS		21.9	1.34	m_e mb	5.0
BRG	75.27		P	22:22:51.109	0.1	10.3		5.66		TAS		10.2	1.22	m_e mb	4.7

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BSEG	72.68	P	22:22:36.606	0.1	10.3	5.66	TAS	16.3	1.08	m_e	mb	5.1
BUG	75.43	P	22:22:51.894	0.5	10.3	5.66	TAS	23.1	1.38	m_e	mb	5.1
CLL	74.96	P	22:22:49.346	0.1	10.3	5.66	TAS	24.1	1.62	m_e	mb	5.0
CLZ	74.74	P	22:22:48.275	-0.3	10.3	5.66	TAS	35.1	1.49	m_e	mb	5.2
FETA	79.45	P	22:23:15.201		10.3	5.66	TAS	14.6	1.14	m_e	mb	4.8
GEC2	77.28	P	22:23:02.866		10.3	5.66	TAS	9.6	1.19	m_e	mb	4.8
GRA1	76.76	P	22:23:00.193		10.3	5.66	TAS	14.5	1.23	m_e	mb	5.0
GRA1	76.76	L	22:55:25.752				T__	313.2	21.60	a_e	Ms	4.6
GTTG	75.07	P	22:22:50.781	0.3	10.3	5.66	TAS	13.1	1.15	m_e	mb	4.9
IBBN	74.53	P	22:22:47.304	0.0	10.3	5.66	TAS	56.4	1.31	m_e	mb	5.4
KAST	75.57	P	22:22:53.187	0.2	10.3	5.66	TAS	6.1	1.02	m_e	mb	4.7
MOTA	79.09	P	22:23:13.255		10.3	5.66	TAS	29.3	1.24	m_e	mb	5.2
NEUB	75.22	P	22:22:51.626	0.1	10.3	5.66	TAS	32.6	1.50	m_e	mb	5.1
STU	77.89	P	22:23:06.536		10.3	5.66	TAS	30.5	1.05	m_e	mb	5.4
TANN	75.90	P	22:22:55.072	0.1	10.3	5.66	TAS	10.3	1.28	m_e	mb	4.8
TNS	76.53	P	22:22:58.680		10.3	5.66	TAS	9.2	1.11	m_e	mb	4.8
UBR	78.87	P	22:23:11.306		10.3	5.66	TAS	64.1	2.08	m_e	mb	5.3
WET	77.10	P	22:23:01.870		10.3	5.66	TAS	18.8	1.42	m_e	mb	5.0
WLF	77.29	P	22:23:03.265		10.3	5.66	TAS	22.4	1.36	m_e	mb	5.1
WTTA	79.10	P	22:23:13.227		10.3	5.66	TAS	33.3	1.34	m_e	mb	5.2

Event 21211001 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/11	01:59:39.69			36.5960	21.3340				33.0			5		14.31	15.02	m i ke	BGR
OrigID 21211007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA3	15.02		P	02:03:14.133	-0.5	147.0		12.52		TAS		27.5	0.87	m_e	
GRA4	14.82		P	02:03:11.889		147.0		12.52		TAS		30.1	0.99	m_e	
GRB1	14.60		P	02:03:09.954		147.0		12.52		TAS		30.2	0.86	m_e	
GRB4	14.69		P	02:03:10.863	0.6	147.0		12.52		TAS		41.9	0.92	m_e	
GRB5	14.35		P	02:03:04.836		147.0		12.52		TAS		17.2	0.87	m_e	
GRC1	14.31		P	02:03:06.212		147.0		12.52		TAS		15.9	0.72	m_e	

Event 21211002 Guerrero, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/11	14:31:29.00			17.2250	-100.4730				18.8			14		87.33	92.11	m i ke	USGS
OrigID 21211020																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	87.51		P	14:44:10.979	-2.5	271.0		5.59		TAS				m_e		
ASSE	88.86		P	14:44:19.905		271.0		5.59		TAS				m_e		
BFO	89.19		P	14:44:23.303	-3.6	271.0		5.59		TAS				m_e		
BRG	91.25		P	14:44:33.078		271.0		5.59		TAS				m_e		
BRG	91.25		PcP	14:48:14.154						T__				m_e		
CLZ	88.82		P	14:44:20.506		271.0		5.59		TAS				m_e		
CLZ	88.82		PcP	14:47:44.298						T__				m_e		
FLT1	89.07		P	14:44:22.811		271.0		5.59		TAS				m_e		
GEC2	92.11		P	14:44:31.660		271.0		5.59		TAS				m_e		
GEC2	92.11		PcP	14:48:20.307						T__				m_e		
GRA1	90.28		PcP	14:48:02.958						T__				m_e		
GRA2	90.38		P	14:44:33.965		271.0		5.59		TAS				m_e		
GRA2	90.38		PcP	14:48:00.877						T__				m_e		
GRA2	90.38		L	15:26:52.284						T__		3056.5	18.90	a_e		
GTTG	88.73		P	14:44:17.718	3.5	271.0		5.59		TAS				m_e		
GTTG	88.73		PcP	14:47:44.298						T__				m_e		
KAST	88.01		P	14:44:15.327		271.0		5.59		TAS				m_e		
KAST	88.01		PcP	14:47:48.030						T__				m_e		
NEUB	89.89		P	14:44:26.828		271.0		5.59		TAS				m_e		
NEUB	89.89		PcP	14:48:02.958						T__				m_e		
PLN	90.44		P	14:44:31.660		271.0		5.59		TAS				m_e		
PLN	90.44		PcP	14:48:06.365						T__				m_e		
RGN	89.11		PcP	14:47:55.494						T__				m_e		
RUE	90.37		PcP	14:48:09.153						T__				m_e		
STU	89.51		PcP	14:47:59.226						T__				m_e		
TANN	90.65		P	14:44:30.658		271.0		5.59		TAS				m_e		
TANN	90.65		PcP	14:48:09.153						T__				m_e		
TNS	88.44		P	14:44:20.936	0.1	271.0		5.59		TAS				m_e		
UBBA	89.07		P	14:44:17.718	1.5	271.0		5.59		TAS				m_e		
UBBA	89.07		PcP	14:47:48.030						T__				m_e		
UBR	90.54		PcP	14:48:06.365						T__				m_e		
WET	91.50		PcP	14:48:14.155						T__				m_e		
WLF	87.33		P	14:44:12.128	-0.1	271.0		5.59		TAS				m_e		

Event 21212002 Fiji Islands region
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2022/12/11 23:54:10.00 -17.9550 -178.4200 572.8 144.78 149.45 m i ke USGS
 21212020

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	

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BRG	145.63	PKPbc	00:12:46.001	16.8	2.70	TAS	m_e
CLL	145.43	PKPbc	00:12:45.303	16.8	2.70	TAS	m_e
CLZ	145.39	PKPbc	00:12:45.535	16.8	2.70	TAS	m_e
FLT1	144.78	PKPbc	00:12:42.976	16.8	2.70	TAS	m_e
FUR	148.76	PKPbc	00:12:54.377	16.8	2.70	TAS	m_e
GEC2	147.58	PKPbc	00:12:51.120	16.8	2.70	TAS	m_e
IBBN	145.29	PKPbc	00:12:45.303	16.8	2.70	TAS	m_e
PLN	146.38	PKPbc	00:12:48.095	16.8	2.70	TAS	m_e
TANN	146.38	PKPbc	00:12:48.327	16.8	2.70	TAS	m_e
TNS	147.25	PKPbc	00:12:50.421	16.8	2.70	TAS	m_e
UBR	149.45	PKPbc	00:12:56.006	16.8	2.70	TAS	m_e

Event 21212007 South of Panama

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/12	18:27:48.74		6.2400	-82.0120				33.0				22		84.11	89.10	m i ke	BGR
OrigID 21212013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	21212013
Ms	4.8		BGR	21212013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	84.65		P	18:40:18.473	-0.3	276.5		4.81		TAS		18.5	0.91	m_e	mb 5.3
ASSE	86.77		P	18:40:29.249	0.3	276.5		4.81		TAS		33.8	1.22	m_e	mb 5.3
BFO	85.62		P	18:40:22.517	-0.9	276.5		4.81		TAS		4.8	0.96	m_e	mb 4.6
BRG	88.96		P	18:40:39.145	-0.3	276.5		4.81		TAS		6.8	1.11	m_e	mb 4.8
BSEG	86.37		P	18:40:27.046	0.1	276.5		4.81		TAS		16.6	1.03	m_e	mb 5.1
BUG	84.72		P	18:40:18.473	-0.6	276.5		4.81		TAS		23.4	1.07	m_e	mb 5.3
CLL	88.31		P	18:40:36.197	-0.1	276.5		4.81		TAS		11.9	1.17	m_e	mb 5.1
CLZ	86.62		P	18:40:28.419	0.2	276.5		4.81		TAS		19.3	1.05	m_e	mb 5.2
FLT1	87.09		P	18:40:30.111	-0.4	276.5		4.81		TAS		18.2	1.10	m_e	mb 5.1
GEC2	89.10		P	18:40:39.767	0.8	276.5		4.81		TAS		6.6	1.13	m_e	mb 4.8
GRA1	87.38		P	18:40:32.664	0.1	276.5		4.81		TAS		14.7	1.20	m_e	mb 5.0
GRA1	87.38		L	19:14:03.101						T__		410.3	21.10	a_e	Ms 4.8
GTTG	86.39		P	18:40:27.513	-0.2	276.5		4.81		TAS		20.0	1.13	m_e	mb 5.2
IBBN	84.97		P	18:40:20.352	-0.2	276.5		4.81		TAS		24.7	0.99	m_e	mb 5.4
KAST	85.46		P	18:40:22.423	0.7	276.5		4.81		TAS		18.7	1.15	m_e	mb 5.2
NEUB	87.55		P	18:40:32.655	0.5	276.5		4.81		TAS		26.6	1.41	m_e	mb 5.4
PLN	87.89		P	18:40:34.146	0.1	276.5		4.81		TAS		5.7	1.29	m_e	mb 4.8
STU	86.16		P	18:40:26.610		276.5		4.81		TAS		77.1	1.31	m_e	mb 5.7
TANN	88.09		P	18:40:35.174		276.5		4.81		TAS		11.5	1.14	m_e	mb 5.1
TNS	85.55		P	18:40:23.504		276.5		4.81		TAS		42.8	1.53	m_e	mb 5.3
UBR	86.87		P	18:40:29.471		276.5		4.81		TAS		35.5	1.55	m_e	mb 5.3
WET	88.53		P	18:40:37.617		276.5		4.81		TAS		15.2	1.12	m_e	mb 5.1
WLF	84.11		P	18:40:16.158		276.5		4.81		TAS		21.5	1.10	m_e	mb 5.3

Event 21213008 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/13	14:25:26.85			28.7480	128.9210				20.2			28		80.26	86.78	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	6.1		BGR	21213014
Ms	6.5		BGR	21213014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	85.75		P	14:38:03.800	0.1	51.3		5.08		TAS		150.7	1.00	a_e mb	6.1
ASSE	83.00		P	14:37:49.900	0.1	51.3		5.08		TAS		97.0	1.20	a_e mb	5.9
BFO	86.59		P	14:38:07.650	-0.4	51.3		5.08		TAS		58.9	1.08	a_e mb	5.6
BRG	82.16		P	14:37:45.400	-0.1	51.3		5.08		TAS		47.5	1.02	a_e mb	5.6
BSEG	82.03		P	14:37:44.900	0.1	51.3		5.08		TAS		201.8	0.78	a_e mb	6.3
BUG	85.06		P	14:38:00.100	-0.1	51.3		5.08		TAS		89.6	0.85	a_e mb	6.0
CLL	82.37		P	14:37:46.200	-0.4	51.3		5.08		TAS		123.4	0.78	m_e mb	6.1
CLZ	83.33		P	14:37:51.950	0.5	51.3		5.08		TAS		338.1	0.91	a_e mb	6.6
FLT1	82.61		P	14:37:47.400	-0.4	51.3		5.08		TAS		160.2	0.98	a_e mb	6.2
FUR	85.19		P	14:38:01.250	0.3	51.3		5.08		TAS		189.1	0.81	a_e mb	6.4
GEC2	83.50		P	14:37:52.250	-0.1	51.3		5.08		TAS		104.7	1.05	a_e mb	6.0
GRA1	84.26		P	14:37:56.550	0.3	51.3		5.08		TAS		166.8	0.84	a_e mb	6.3
GRA1	84.26		sP	14:38:04.774	0.2					T__				m_e	
GRA1	84.26		L	15:20:22.912						T__	16298.3	18.00	a_e Ms		6.5
GTTG	83.71		P	14:37:53.750	0.3	51.3		5.08		TAS		309.0	0.85	a_e mb	6.6
HLG	82.97		P	14:37:49.500	-0.1	51.3		5.08		TAS		224.6	0.90	a_e mb	6.4
IBBN	84.26		P	14:37:56.150	-0.0	51.3		5.08		TAS		409.8	0.88	a_e mb	6.7
KAST	84.67		P	14:37:58.500	0.2	51.3		5.08		TAS		153.6	0.99	a_e mb	6.2
NEUB	83.05		P	14:37:49.950	-0.1	51.3		5.08		TAS		199.4	0.83	a_e mb	6.4
PLN	83.30		P	14:37:51.300	0.0	51.3		5.08		TAS		40.8	0.98	a_e mb	5.6
RGN	80.26		P	14:37:35.600	-0.3	51.3		5.08		TAS		191.5	0.85	a_e mb	6.0
RUE	81.28		P	14:37:41.050	-0.0	51.3		5.08		TAS		263.5	1.03	a_e mb	6.2
SCHI	81.22		P	14:37:40.600	-0.1	51.3		5.08		TAS		167.9	0.92	a_e mb	6.1
STU	85.87		P	14:38:04.100	-0.3	51.3		5.08		TAS		318.9	1.30	a_e mb	6.3
TANN	83.19		P	14:37:50.750	0.0	51.3		5.08		TAS		97.8	1.08	a_e mb	6.0
TNS	85.30		P	14:38:01.600	0.1	51.3		5.08		TAS		78.3	1.14	a_e mb	5.8
UBR	86.11		P	14:38:05.500	-0.1	51.3		5.08		TAS		121.0	0.81	a_e mb	6.1
WET	83.75		P	14:37:53.750	0.2	51.3		5.08		TAS		86.8	1.12	a_e mb	5.9
WLF	86.78		P	14:38:08.800	-0.2	51.3		5.08		TAS		82.3	0.85	a_e mb	5.9

Event 21214006 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/14	18:40:28.00			51.7250	178.6540				83.7			17		74.13	80.35	m i ke	USGS
OrigID 21214024																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.2		BGR	21214012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	77.73		P	18:52:14.854	-0.4	7.9		5.32		TAS					m_e
ASSE	75.89		P	18:52:04.158	-0.4	7.9		5.32		TAS					m_e
BFO	79.85		P	18:52:26.027		7.9		5.32		TAS					m_e
BSEG	74.13		P	18:51:55.574	-1.1	7.9		5.32		TAS					m_e
BUG	76.82		P	18:52:10.177	0.4	7.9		5.32		TAS					m_e
CLL	76.50		P	18:52:08.788	1.6	7.9		5.32		TAS					m_e
CLZ	76.20		P	18:52:05.963	1.7	7.9		5.32		TAS					m_e
FLT1	75.65		P	18:52:04.551	0.8	7.9		5.32		TAS					m_e
FUR	79.77		P	18:52:22.910	-0.4	7.9		5.32		TAS					m_e
GEC2	78.86		P	18:52:20.086	-0.4	7.9		5.32		TAS					m_e
GOR1	74.99		P	18:52:02.267	1.0	7.9		5.32		TAS					m_e
GRA1	78.26		P	18:52:19.793	-0.9	7.9		5.32		TAS					m_e
GRA2	78.29		P	18:52:19.769		7.9		5.32		TAS		1478.8	6.96	m_e mb	6.2
GTTG	76.53		P	18:52:08.412	-0.5	7.9		5.32		TAS					m_e
IBBN	75.93		P	18:52:05.866	-0.1	7.9		5.32		TAS					m_e
KAST	76.98		P	18:52:11.231	1.6	7.9		5.32		TAS					m_e
NEUB	76.72		P	18:52:08.788	-0.4	7.9		5.32		TAS					m_e
PLN	77.39		P	18:52:12.836		7.9		5.32		TAS					m_e
SCHI	74.50		P	18:51:56.049		7.9		5.32		TAS					m_e
STU	79.34		P	18:52:22.910		7.9		5.32		TAS					m_e
TANN	77.43		P	18:52:13.241		7.9		5.32		TAS					m_e
TNS	77.95		P	18:52:15.849		7.9		5.32		TAS					m_e
TNS	77.95		PcP	18:52:26.552						T__					m_e
UBBA	77.25		P	18:52:09.607		7.9		5.32		TAS					m_e
UBBA	77.25		PcP	18:52:32.407	-0.4					T__					m_e
UBR	80.35		P	18:52:30.409		7.9		5.32		TAS					m_e
UBR	80.35		PcP	18:52:37.068						T__					m_e
WET	78.64		P	18:52:19.897		7.9		5.32		TAS					m_e
WET	78.64		PcP	18:52:29.582						T__					m_e
WLF	78.65		P	18:52:19.096		7.9		5.32		TAS					m_e
WLF	78.65		PcP	18:52:28.176						T__					m_e

Event 21216001 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/15	23:48:14.15			41.3530	141.4740				33.3					79.26	79.26	m i ke	BGR
OrigID 21216007																	

Magnitude Err Nsta Author OrigID
 mb 4.9 BGR 21216007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.26		pP	00:00:25.017						T__				m_e	
GRA1	79.26		P	00:00:15.426		37.6		4.77		TAS		11.6	1.00	m_e mb	4.9

Event 21216003 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/16	12:07:20.21			-22.0300	-176.4400				600.0				24	146.62	153.78	m i ke	BGR
				OrigID													
				21216009													

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	151.32		PKPab	12:26:15.497		15.0		4.36		TAS				m_e	
ASSE	149.37		PKPbc	12:26:02.122	-0.0	14.0		2.34		TAS				m_e	
BFO	153.39		PKPbc	12:26:11.557		14.0		2.34		TAS				m_e	
BRG	150.01		PKPbc	12:26:03.884	0.3	14.0		2.34		TAS				m_e	
BRG	150.01		PKPab	12:26:09.535		15.0		4.36		TAS				m_e	
BSEG	147.65		PKPbc	12:25:57.974	-0.3	14.0		2.34		TAS				m_e	
CLL	149.78		PKPbc	12:26:03.366	0.1	14.0		2.34		TAS				m_e	
CLL	149.78		PKPab	12:26:08.395		15.0		4.36		TAS				m_e	
CLZ	149.69		PKPbc	12:26:03.418	-0.1	14.0		2.34		TAS				m_e	
FLT1	149.09		PKPbc	12:26:01.137	0.3	14.0		2.34		TAS				m_e	
FUR	153.12		PKPbc	12:26:11.090		14.0		2.34		TAS				m_e	
FUR	153.12		PKPab	12:26:23.325		15.0		4.36		TAS				m_e	
GEC2	151.97		PKPbc	12:26:08.343		14.0		2.34		TAS				m_e	
GRA1	151.65		PKPbc	12:26:07.669		14.0		2.34		TAS				m_e	
GRA1	151.65		PKPab	12:26:16.586		15.0		4.36		TAS				m_e	
GTTG	150.03		PKPbc	12:26:04.247	0.2	14.0		2.34		TAS				m_e	
IBBN	149.51		PKPbc	12:26:02.951	0.3	14.0		2.34		TAS				m_e	
IBBN	149.51		PKPab	12:26:08.032	-0.2	15.0		4.36		TAS				m_e	
KAST	150.55		PKPbc	12:26:05.440	-0.1	14.0		2.34		TAS				m_e	
NEUB	150.11		PKPbc	12:26:04.247	0.3	14.0		2.34		TAS				m_e	
NEUB	150.11		PKPab	12:26:09.794		15.0		4.36		TAS				m_e	
PLN	150.73		PKPbc	12:26:05.906	0.3	14.0		2.34		TAS				m_e	
PLN	150.73		PKPab	12:26:12.438		15.0		4.36		TAS				m_e	
RETH	148.94		PKPbc	12:26:00.626	0.1	14.0		2.34		TAS				m_e	
RGN	146.62		PKPbc	12:25:56.730	0.8	14.0		2.34		TAS				m_e	
SCHI	147.86		PKPbc	12:25:58.576	-0.8	14.0		2.34		TAS				m_e	
STU	152.85		PKPbc	12:26:10.883		14.0		2.34		TAS				m_e	
TANN	150.74		PKPbc	12:26:05.906	-0.1	14.0		2.34		TAS				m_e	
TANN	150.74		PKPab	12:26:12.697		15.0		4.36		TAS				m_e	

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TNS	151.51	PKPbc	12:26:07.928	-0.1	14.0	2.34	TAS	m_e
TNS	151.51	PKPab	12:26:15.964		15.0	4.36	TAS	m_e
UBR	153.78	PKPbc	12:26:12.594		14.0	2.34	TAS	m_e
WET	151.87	PKPbc	12:26:08.343		14.0	2.34	TAS	m_e
WET	151.87	PKPab	12:26:17.363		15.0	4.36	TAS	m_e

Event 21216004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/16	22:55:01.92			47.8820	154.1190				33.0					77.54	77.54	m i ke	BGR
OrigID 21216010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	21216010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	77.54		P	23:06:53.601		24.2		4.81		TAS		6.5	0.92	m_e mb	4.8

Event 21216005 New Mexico, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/16	23:35:35.34			33.3290	-103.3070				33.0				19	75.64	80.75	m i ke	BGR
OrigID 21216011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	21216011
Ms	4.8		BGR	21216011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	76.34		P	23:47:19.711	0.2	309.3		5.49		TAS		33.1	1.30	m_e mb	5.3
ASSE	77.17		P	23:47:24.776	-0.3	309.3		5.49		TAS		14.4	1.06	m_e mb	5.0
BFO	78.32		P	23:47:30.613	-0.2	309.3		5.49		TAS		19.8	1.14	m_e mb	5.1
BRG	79.54		P	23:47:37.652		309.3		5.49		TAS		6.2	0.89	m_e mb	4.5
BSEG	75.88		P	23:47:17.286		309.3		5.49		TAS		17.2	0.78	m_e mb	5.2
BUG	75.91		P	23:47:17.156		309.3		5.49		TAS		19.3	1.09	m_e mb	5.2
CLL	78.81		P	23:47:33.274		309.3		5.49		TAS		8.4	0.85	m_e mb	4.8
CLZ	77.20		P	23:47:25.205	-0.1	309.3		5.49		TAS		15.7	1.09	m_e mb	5.1
FLT1	77.31		P	23:47:25.275	0.1	309.3		5.49		TAS				m_e	
FUR	79.96		P	23:47:40.019		309.3		5.49		TAS		66.8	1.35	m_e mb	5.4
GEC2	80.75		P	23:47:44.262		309.3		5.49		TAS		10.2	1.04	m_e mb	4.8
GRA1	78.97		P	23:47:35.163		309.3		5.49		TAS		17.8	0.92	m_e mb	5.1
GRA1	78.97		L	00:22:56.961						T__		407.6	18.30	a_e Ms	4.8
IBBN	75.64		P	23:47:16.277	-0.3	309.3		5.49		TAS		42.8	0.99	m_e mb	5.5

KAST	76.62	P	23:47:21.428	-0.0	309.3	5.49	TAS	14.6	1.08	m_e	mb	5.0
NEUB	78.29	P	23:47:30.387	0.0	309.3	5.49	TAS	26.0	1.15	m_e	mb	5.2
PLN	78.93	P	23:47:34.169		309.3	5.49	TAS	3.1	1.10	m_e	mb	4.2
STU	78.50	P	23:47:31.795		309.3	5.49	TAS	50.4	1.06	m_e	mb	5.5
TANN	79.12	P	23:47:35.420		309.3	5.49	TAS	10.4	1.06	m_e	mb	4.8
TNS	77.23	P	23:47:24.948	0.7	309.3	5.49	TAS	17.5	1.10	m_e	mb	5.1
UBR	79.66	P	23:47:38.511		309.3	5.49	TAS	19.7	1.15	m_e	mb	4.9
WET	80.15	P	23:47:40.756		309.3	5.49	TAS	8.1	0.99	m_e	mb	4.6
WLF	76.37	P	23:47:20.398	0.4	309.3	5.49	TAS	37.6	1.01	m_e	mb	5.5

Event 21217002 Cuba region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/17	06:40:52.00			21.8170	-76.5030				10.0					72.22	72.22	m i ke	USGS
21217020																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	21217008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	72.22		P	06:52:20.022		282.9		6.92		TAS		5.8	1.03	m_e	mb	4.7

Event 21217004 Near coast of Ecuador

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/17	09:46:34.00			1.4300	-79.3120				32.7					89.28	89.28	m i ke	USGS
21217022																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	21217010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	89.28		P	09:59:29.095		271.3		6.05		TAS		27.7	1.65	m_e	mb	5.2

Event 21217005 Madeira Islands, Portugal, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/17	12:44:16.00			33.3680	-19.9200				10.0					28.17	28.17	m i ke	USGS
21217023																	

Magnitude Err Nsta Author OrigID
 mb 4.7 BGR 21217011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	28.17		P	12:50:09.991		246.4		8.20		TAS		13.6	1.15	m_e	mb 4.7

Event 21217006 Shikoku, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/17	18:06:06.34			32.7030	132.2040				33.0			26		78.39	84.96	m i ke	BGR
				21217012													

Magnitude Err Nsta Author OrigID
 mb 5.3 BGR 21217012
 Ms 6.2 BGR 21217012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	83.92		P	18:18:31.924	0.1	46.7		5.21		TAS		33.1	1.16	a_e	mb 5.5
ASSE	81.20		P	18:18:17.774	0.5	46.7		5.21		TAS		14.4	1.10	a_e	mb 4.9
BFO	84.93		P	18:18:36.624	-0.3	46.7		5.21		TAS		14.2	0.90	a_e	mb 5.2
BRG	80.54		P	18:18:14.124	0.1	46.7		5.21		TAS		18.7	1.36	a_e	mb 4.9
BSEG	80.11		P	18:18:11.974	0.0	46.7		5.21		TAS		25.4	0.99	a_e	mb 5.1
BUG	83.18		P	18:18:27.824	-0.3	46.7		5.21		TAS		25.2	1.27	a_e	mb 5.3
CLL	80.69		P	18:18:14.724	0.2	46.7		5.21		TAS		15.8	0.59	a_e	mb 5.2
CLZ	81.53		P	18:18:19.874	0.2	46.7		5.21		TAS		25.0	1.06	a_e	mb 5.3
FLT1	80.81		P	18:18:15.224	0.1	46.7		5.21		TAS		17.6	0.88	a_e	mb 5.1
FUR	83.65		P	18:18:30.674		46.7		5.21		TAS		102.2	1.50	a_e	mb 5.8
GEC2	82.00		P	18:18:21.674	-0.6	46.7		5.21		TAS		29.0	1.83	a_e	mb 5.1
GRA1	82.62		P	18:18:25.674	-0.2	46.7		5.21		TAS		114.6	1.46	a_e	mb 5.9
GRA1	82.62		L	18:59:32.565						T__		10474.0	19.40	a_e	Ms 6.2
GTTG	81.92		P	18:18:21.674	-0.2	46.7		5.21		TAS		27.3	1.33	a_e	mb 5.2
IBBN	82.35		P	18:18:23.574	-0.4	46.7		5.21		TAS		38.0	1.32	a_e	mb 5.4
KAST	82.85		P	18:18:26.474	0.0	46.7		5.21		TAS		27.2	1.29	a_e	mb 5.3
NEUB	81.34		P	18:18:18.424	-0.1	46.7		5.21		TAS		83.2	1.49	m_e	mb 5.5
PLN	81.64		P	18:18:20.074	0.2	46.7		5.21		TAS		12.3	1.58	a_e	mb 4.8
RGN	78.39		P	18:18:02.674	-0.3	46.7		5.21		TAS		63.9	1.02	a_e	mb 5.7
RUE	79.56		P	18:18:09.174	-0.1	46.7		5.21		TAS		57.2	1.25	a_e	mb 5.4
SCHI	79.41		P	18:18:08.274	-0.0	46.7		5.21		TAS		33.4	0.70	a_e	mb 5.5
STU	84.22		P	18:18:33.174	0.2	46.7		5.21		TAS		42.0	0.93	a_e	mb 5.7
TANN	81.54		P	18:18:19.574	0.1	46.7		5.21		TAS		16.6	1.31	a_e	mb 5.0
TNS	83.53		P	18:18:30.024	0.6	46.7		5.21		TAS		10.6	0.87	a_e	mb 5.1
UBR	84.55		P	18:18:34.824		46.7		5.21		TAS		75.8	1.75	a_e	mb 5.6
WET	82.20		P	18:18:23.224	-0.3	46.7		5.21		TAS		32.1	1.73	a_e	mb 5.2
WLF	84.96		P	18:18:37.374	0.3	46.7		5.21		TAS		37.6	1.02	a_e	mb 5.6

Event 21217007 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/17	21:45:36.00			53.9710	-35.1650				10.0					28.55	28.55	m i ke	USGS
OrigID 21217025																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	21217013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	28.55		P	21:51:32.878		296.6		7.47		TAS		15.7	1.64	m_e mb	4.6

Event 21218001 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/18	07:01:43.18			26.6730	126.8650				126.1				24	81.97	87.50	m i ke	BGR
OrigID 21218007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	21218007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	86.48		P	07:14:22.268	0.1	54.0		5.03		TAS		19.6	1.25	m_e mb	5.1
ASSE	83.73		P	07:14:08.458	-0.5	54.0		5.03		TAS		22.7	1.18	m_e mb	5.3
BFO	87.22		P	07:14:25.362		54.0		5.03		TAS		15.9	1.05	m_e mb	5.1
BRG	82.78		P	07:14:03.131	-0.0	54.0		5.03		TAS		21.3	1.27	m_e mb	5.2
BSEG	82.83		P	07:14:03.637	0.1	54.0		5.03		TAS		32.6	1.07	m_e mb	5.5
BUG	85.82		P	07:14:18.832	-0.4	54.0		5.03		TAS		22.4	1.17	m_e mb	5.2
CLL	83.02		P	07:14:04.318	0.1	54.0		5.03		TAS		20.6	0.92	m_e mb	5.3
CLZ	84.04		P	07:14:10.667	0.2	54.0		5.03		TAS		57.5	0.96	m_e mb	5.8
FLT1	83.33		P	07:14:05.772	-0.0	54.0		5.03		TAS		52.1	1.43	m_e mb	5.6
FUR	85.76		P	07:14:19.011		54.0		5.03		TAS		79.2	0.99	m_e mb	5.8
GEC2	84.05		P	07:14:09.540		54.0		5.03		TAS		12.6	0.84	m_e mb	5.2
GRA1	84.89		P	07:14:14.221	0.5	54.0		5.03		TAS		61.2	1.11	m_e mb	5.7
GRA1	84.89		pP	07:14:46.304						T__				m_e	
GTTG	84.43		P	07:14:12.204	-0.4	54.0		5.03		TAS		47.5	0.92	m_e mb	5.7
IBBN	85.04		P	07:14:15.035	0.4	54.0		5.03		TAS		60.2	0.77	m_e mb	5.9
KAST	85.41		P	07:14:17.007	0.7	54.0		5.03		TAS		21.1	0.88	m_e mb	5.4
NEUB	83.72		P	07:14:07.922	0.5	54.0		5.03		TAS		29.3	0.96	m_e mb	5.5
PLN	83.93		P	07:14:10.005	0.3	54.0		5.03		TAS		6.3	0.91	m_e mb	4.8
RUE	81.97		P	07:13:59.192	0.7	54.0		5.03		TAS		21.1	0.69	m_e mb	5.4
STU	86.50		P	07:14:22.337		54.0		5.03		TAS		50.1	0.81	m_e mb	5.7
TANN	83.82		P	07:14:09.307	-0.4	54.0		5.03		TAS		30.9	1.29	m_e mb	5.4
TNS	85.99		P	07:14:19.729	0.1	54.0		5.03		TAS		19.5	1.40	m_e mb	5.0

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UBR	86.68	P	07:14:22.987	54.0	5.03	TAS	27.3	0.88	m_e	mb	5.4
WET	84.32	P	07:14:11.662	-0.2	54.0	5.03	40.8	1.63	m_e	mb	5.4
WLF	87.50	P	07:14:26.856	-0.6	54.0	5.03	18.9	0.90	m_e	mb	5.4

Event 21218002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/18	10:08:19.75			-21.5800	-179.1700				600.0			20		146.82	152.10	m i ke	BGR
OrigID 21218008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	148.94		PKPbc	10:27:00.576	-0.0	18.5		2.48		TAS				m_e	
BRG	148.94		PKPab	10:27:06.056		16.1		4.48		TAS				m_e	
BSEG	146.82		PKPbc	10:26:55.182	-0.0	18.5		2.48		TAS				m_e	
BUG	149.69		PKPab	10:27:08.995		16.1		4.48		TAS				m_e	
CLL	148.77		PKPbc	10:27:00.068	0.2	18.5		2.48		TAS				m_e	
CLL	148.77		PKPab	10:27:05.366	-0.0	16.1		4.48		TAS				m_e	
CLZ	148.81		PKPbc	10:27:00.358	-0.1	18.5		2.48		TAS				m_e	
FLT1	148.19		PKPab	10:27:02.488	0.4	16.1		4.48		TAS				m_e	
FUR	152.10		PKPab	10:27:20.100		16.1		4.48		TAS				m_e	
GEC2	150.85		PKPbc	10:27:05.497		18.5		2.48		TAS				m_e	
GRA1	150.69		PKPab	10:27:13.858		16.1		4.48		TAS				m_e	
GTTG	149.17		PKPbc	10:27:01.214	0.1	18.5		2.48		TAS				m_e	
IBBN	148.78		PKPab	10:27:04.979	0.2	16.1		4.48		TAS				m_e	
KAST	149.76		PKPbc	10:27:02.686		18.5		2.48		TAS				m_e	
NEUB	149.15		PKPab	10:27:06.491		16.1		4.48		TAS				m_e	
PLN	149.73		PKPbc	10:27:02.681		18.5		2.48		TAS				m_e	
RUE	147.50		PKPbc	10:26:57.013	0.1	18.5		2.48		TAS				m_e	
SCHI	146.91		PKPbc	10:26:55.487	-0.1	18.5		2.48		TAS				m_e	
STU	151.97		PKPbc	10:27:07.870		18.5		2.48		TAS				m_e	
TANN	149.72		PKPbc	10:27:02.753		18.5		2.48		TAS				m_e	
TANN	149.72		PKPab	10:27:09.939		16.1		4.48		TAS				m_e	
TNS	150.70		PKPbc	10:27:04.858		18.5		2.48		TAS				m_e	
TNS	150.70		PKPab	10:27:13.277		16.1		4.48		TAS				m_e	
WLF	151.57		PKPbc	10:27:07.321		18.5		2.48		TAS				m_e	

Event 21218003 Kyushu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/18	14:19:38.00			30.3750	131.0860				28.8					84.01	84.01	m i ke	USGS
OrigID 21218021																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	21218009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.01		P	14:32:14.908		48.9		5.05		TAS		14.5	1.46	m_e	mb 5.0

Event 21219001 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/19	00:18:43.64			-22.2500	-176.3900				155.1	0.8		22		147.87	153.62	m i ke	BGR
OrigID 21219007																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	151.54		pPKPbc	00:39:00.354	0.2					T__					m_e
ASSE	149.59		PKPbc	00:38:14.163	0.2	13.9		2.42		TAS					m_e
BFO	153.62		pPKPbc	00:39:04.613	0.2					T__					m_e
BRG	150.23		PKPbc	00:38:16.172	0.4	13.9		2.42		TAS					m_e
BRG	150.23		pPKPbc	00:38:56.820	0.2					T__					m_e
BSEG	147.87		PKPbc	00:38:09.698	-0.3	13.9		2.42		TAS					m_e
BUG	150.63		PKPbc	00:38:16.843	-0.3	13.9		2.42		TAS					m_e
CLL	150.01		PKPbc	00:38:15.428	-0.1	13.9		2.42		TAS					m_e
CLL	150.01		pPKPbc	00:38:56.076	0.2					T__					m_e
CLZ	149.91		PKPbc	00:38:15.205	-0.2	13.9		2.42		TAS					m_e
CLZ	149.91		pPKPbc	00:38:55.774	0.2					T__					m_e
FLT1	149.32		PKPbc	00:38:13.270	0.4	13.9		2.42		TAS					m_e
FLT1	149.32		pPKPbc	00:38:54.017	0.2					T__					m_e
FUR	153.34		PKPbc	00:38:23.017		13.9		2.42		TAS					m_e
FUR	153.34		PKPab	00:38:35.072		13.2		4.77		TAS					m_e
GEC2	152.20		PKPbc	00:38:20.488		13.9		2.42		TAS					m_e
GEC2	152.20		pPKPbc	00:39:01.411	0.2					T__					m_e
GRA1	151.88		PKPab	00:38:28.747		13.2		4.77		TAS					m_e
GTTG	150.26		PKPbc	00:38:16.321	0.1	13.9		2.42		TAS					m_e
GTTG	150.26		PKPab	00:38:20.264		13.2		4.77		TAS					m_e
KAST	150.77		PKPbc	00:38:17.139	-0.3	13.9		2.42		TAS					m_e
KAST	150.77		pPKPbc	00:38:57.992	0.2					T__					m_e
NEUB	150.33		PKPbc	00:38:16.321	0.2	13.9		2.42		TAS					m_e
PLN	150.95		PKPbc	00:38:17.734	0.1	13.9		2.42		TAS					m_e
PLN	150.95		pPKPbc	00:38:58.305	0.2					T__					m_e
RUE	148.75		PKPbc	00:38:12.452	0.1	13.9		2.42		TAS					m_e
STU	153.07		PKPbc	00:38:22.869		13.9		2.42		TAS					m_e
TANN	150.96		PKPbc	00:38:18.032	-0.4	13.9		2.42		TAS					m_e
TANN	150.96		pPKPbc	00:38:58.808	0.2					T__					m_e
TNS	151.73		PKPbc	00:38:19.743		13.9		2.42		TAS					m_e

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TNS	151.73	PKPab	00:38:28.152	13.2	4.77	TAS	m_e
WET	152.09	PKPbc	00:38:20.190	13.9	2.42	TAS	m_e
WET	152.09	PKPab	00:38:30.086	13.2	4.77	TAS	m_e
WLF	152.48	PKPbc	00:38:21.604	13.9	2.42	TAS	m_e
WLF	152.48	pPKPbc	00:39:02.416	0.2		T__	m_e

Event 21220001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/20	09:09:01.00			-16.7460	-177.4190				10.0					146.31	146.31	m i ke	USGS
OrigID																	
21220019																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.1		BGR	21220007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.31		PKP	09:28:44.054		15.1		2.06		TAS				m_e	
GRA1	146.31		L	10:30:58.470						T__		345.4	22.00	a_e Ms	5.1

Event 21220003 Off coast of northern California, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/20	10:34:34.65			41.5560	-125.3150				33.0					80.65	81.34	m i ke	BGR
OrigID																	
21220009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	21220009
Ms	6.5		BGR	21220009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	81.34		P	10:46:47.064		335.6		4.71		TAS		85.3	1.31	m_e mb	5.6
GRA1	81.34		L	11:24:28.495						T__		19731.4	19.20	a_e Ms	6.5
MOX	80.65		L	11:22:56.094						T__		18578.2	19.60	a_e Ms	6.4

Event 21221001 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/21	04:34:42.00			-26.3890	-176.4250				35.0					155.92	155.92	m i ke	USGS
OrigID																	
21221019																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.6		BGR	21221007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	155.92		PKP	04:55:13.721		17.1		3.97		TAS				m_e	
GRA1	155.92		L	06:10:45.045						T__		796.1	18.70	a_e	Ms 5.6

Event 21221002 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/21	08:51:00.87			54.8290	-161.2080				33.0					75.53	75.53	m i ke	BGR
OrigID																	
21221008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	21221008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	75.53		P	09:02:41.065		353.8		5.12		TAS		11.2	0.87	m_e mb	5.0

Event 21222001 Qinghai, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/22	02:47:03.00			35.5810	99.0250				10.0					62.52	62.52	m i ke	USGS
OrigID																	
21222019																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	21222007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	62.52		P	02:57:29.665		66.6		6.21		TAS		11.0	1.02	m_e mb	4.9

Event 21223006 Taiwan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/23	21:18:04.30			23.4220	121.1860				33.0					84.39	84.39	m i ke	BGR
OrigID																	
21223012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	21223012

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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.39		P	21:30:32.929		64.9		5.07		TAS		28.1	1.69	m_e	mb 5.2

Event 21224002 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/24	08:35:41.00		28.2720	138.7990					521.9			23		86.30	91.70	m i ke	USGS

Magnitude	Err	Nsta	Author	OrigID
mb 5.5			BGR	21224008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	87.89		P	08:47:34.722	-0.1	44.4		4.70		TAS		58.3	1.83	m_e	mb 5.6
BFO	91.70		P	08:47:53.051		44.4		4.70		TAS		42.0	1.01	m_e	mb 5.7
BRG	87.33		P	08:47:32.913	0.3	44.4		4.70		TAS		18.5	0.78	m_e	mb 5.3
BSEG	86.73		P	08:47:29.735	0.1	44.4		4.70		TAS		19.8	0.68	m_e	mb 5.4
BUG	89.82		P	08:47:44.475	0.0	44.4		4.70		TAS		29.1	1.08	m_e	mb 5.4
CLL	87.45		P	08:47:33.303	-0.1	44.4		4.70		TAS		23.2	0.54	m_e	mb 5.7
CLZ	88.22		P	08:47:37.169	0.0	44.4		4.70		TAS		14.2	0.91	m_e	mb 5.3
FLT1	87.50		P	08:47:33.018	-0.1	44.4		4.70		TAS		22.5	0.99	m_e	mb 5.5
FUR	90.47		P	08:47:48.034		44.4		4.70		TAS		77.9	0.95	m_e	mb 6.0
GEC2	88.85		P	08:47:39.897		44.4		4.70		TAS		25.4	1.01	m_e	mb 5.4
GRA1	89.40		P	08:47:42.935		44.4		4.70		TAS		62.4	1.19	m_e	mb 5.7
GTTG	88.61		P	08:47:38.754	1.1	44.4		4.70		TAS		28.2	1.30	m_e	mb 5.3
IBBN	88.97		P	08:47:40.383	0.1	44.4		4.70		TAS				m_e	
MOX	88.54		P	08:47:38.895	-0.2	44.4		4.70		TAS		35.9	1.49	m_e	mb 5.4
NEUB	88.08		P	08:47:36.232	0.3	44.4		4.70		TAS		41.9	0.99	m_e	mb 5.7
PLN	88.41		P	08:47:37.959	-0.3	44.4		4.70		TAS		22.2	1.72	m_e	mb 5.2
RUE	86.30		P	08:47:28.074	0.0	44.4		4.70		TAS		30.7	1.05	m_e	mb 5.4
STU	90.98		P	08:47:49.984		44.4		4.70		TAS		91.5	0.93	m_e	mb 6.1
TANN	88.33		P	08:47:37.397	0.3	44.4		4.70		TAS				m_e	
TNS	90.24		P	08:47:46.167	-0.4	44.4		4.70		TAS		23.2	1.16	m_e	mb 5.3
UBR	91.36		P	08:47:51.466		44.4		4.70		TAS		23.0	0.93	m_e	mb 5.5
WET	89.03		P	08:47:40.897		44.4		4.70		TAS		19.9	1.14	m_e	mb 5.2
WLF	91.63		P	08:47:53.227		44.4		4.70		TAS		89.5	1.49	m_e	mb 5.9

Event 21224001 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/24	13:24:39.00		34.0520	57.1740					10.0			16		35.25	39.72	m i ke	USGS

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	21224007
Ms	4.5		BGR	21224007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	39.72		P	13:32:15.663		97.4		8.89		TAS		17.7	0.98	m_e	mb 4.7
ASSE	37.69		P	13:31:57.766	-0.3	97.4		8.89		TAS				m_e	
BRG	35.45		P	13:31:36.658		97.4		8.89		TAS		53.0	1.62	m_e	mb 5.2
BSEG	38.24		P	13:32:00.428	1.4	97.4		8.89		TAS		59.6	1.05	m_e	mb 5.2
BUG	39.68		P	13:32:14.547	-1.0	97.4		8.89		TAS		59.1	1.30	m_e	mb 5.1
CLL	36.11		P	13:31:42.607	1.2	97.4		8.89		TAS				m_e	
CLZ	37.82		P	13:31:57.083	-1.3	97.4		8.89		TAS		31.9	0.94	m_e	mb 5.0
FLT1	37.38		P	13:31:52.821	-0.1	97.4		8.89		TAS		60.9	0.99	m_e	mb 5.3
GEC2	35.25		P	13:31:34.266		97.4		8.89		TAS		10.4	1.00	m_e	mb 4.7
GRA1	36.98		L	13:49:00.595						T__		945.1	20.30	a_e	Ms 4.6
KAST	38.94		P	13:32:07.308	1.5	97.4		8.89		TAS		410.3	3.66	m_e	mb 5.5
MOX	36.86		P	13:31:50.254		97.4		8.89		TAS		246.5	2.93	m_e	mb 5.4
MOX	36.86		L	13:48:38.761						T__		628.3	20.60	a_e	Ms 4.4
NEUB	36.85		P	13:31:47.880	0.5	97.4		8.89		TAS		100.4	1.08	m_e	mb 5.5
PLN	36.49		P	13:31:48.913		97.4		8.89		TAS		2.0	0.96	m_e	mb 3.8
RGN	36.68		P	13:31:49.306	1.7	97.4		8.89		TAS		187.4	0.99	m_e	mb 5.8
RUE	35.89		P	13:31:39.782	-0.9	97.4		8.89		TAS		76.8	1.01	m_e	mb 5.5
SCHI	36.64		P	13:31:48.993	-1.1	97.4		8.89		TAS		97.9	0.91	m_e	mb 5.5
TNS	38.81		P	13:32:08.396		97.4		8.89		TAS		15.2	1.24	m_e	mb 4.5
UBBA	37.90		P	13:31:57.261		97.4		8.89		TAS		18.0	1.18	m_e	mb 4.7

Event 21224004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/24	20:17:10.00			-20.3050	-178.0220				567.7			15		145.74	150.43	m i ke	USGS

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	147.99		PKPbc	20:35:52.457		17.4		2.58		TAS				m_e	
BSEG	145.74		PKPbc	20:35:46.447	-0.2	17.4		2.58		TAS				m_e	
BUG	148.56		PKPbc	20:35:53.697	0.1	17.4		2.58		TAS				m_e	
CLL	147.79		PKPbc	20:35:51.817	0.1	17.4		2.58		TAS				m_e	
CLZ	147.76		PKPbc	20:35:52.002	0.1	17.4		2.58		TAS				m_e	
FLT1	147.15		PKPbc	20:35:49.875	0.1	17.4		2.58		TAS				m_e	
GEC2	149.93		PKPbc	20:35:57.235		17.4		2.58		TAS				m_e	
GOR1	146.50		PKPbc	20:35:48.440	-0.2	17.4		2.58		TAS				m_e	
KAST	148.66		PKPbc	20:35:53.977	-0.3	17.4		2.58		TAS				m_e	
MOX	148.70		PKPbc	20:35:54.185		17.4		2.58		TAS				m_e	
NEUB	148.14		PKPbc	20:35:52.665		17.4		2.58		TAS				m_e	

./bul2212.txt

Thu Feb 15 10:44:56 2024

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PLN	148.74	PKPbc	20:35:54.385	17.4	2.58	TAS	m_e
TANN	148.75	PKPbc	20:35:54.434	17.4	2.58	TAS	m_e
TNS	149.62	PKPbc	20:35:56.585	17.4	2.58	TAS	m_e
WLF	150.43	PKPbc	20:35:58.926	17.4	2.58	TAS	m_e

Event 21225001 Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/25	02:17:43.00			56.0950	160.9790				113.0			18		67.71	73.64	m i ke	USGS
OrigID 21225019																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	21225007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	69.27		P	02:28:38.921	0.0	17.3		5.98		TAS		49.0	1.58	m_e mb	5.4
BRG	69.83		P	02:28:43.280	-0.7	17.3		5.98		TAS		24.5	1.40	m_e mb	5.1
CLL	69.61		P	02:28:41.100	0.6	17.3		5.98		TAS		45.9	1.37	m_e mb	5.4
CLZ	69.60		P	02:28:41.412	0.2	17.3		5.98		TAS		34.7	1.37	m_e mb	5.3
FUR	72.94		P	02:29:01.024		17.3		5.98		TAS		43.6	1.47	m_e mb	5.4
GEC2	71.80		P	02:28:55.378		17.3		5.98		TAS		25.0	1.44	m_e mb	5.1
GOR1	68.33		P	02:28:34.862	-0.7	17.3		5.98		TAS		38.6	1.33	m_e mb	5.5
GRA1	71.50		P	02:28:53.634		17.3		5.98		TAS		21.0	0.79	m_e mb	5.3
GTTG	69.96		P	02:28:44.167	-0.8	17.3		5.98		TAS		32.7	1.55	m_e mb	5.2
IBBN	69.60		P	02:28:40.789	-0.7	17.3		5.98		TAS		67.4	1.56	m_e mb	5.5
MOX	70.51		P	02:28:47.134		17.3		5.98		TAS		35.8	1.43	m_e mb	5.3
PLN	70.56		P	02:28:47.638		17.3		5.98		TAS		11.5	1.41	m_e mb	4.8
RUE	68.35		P	02:28:34.018	0.5	17.3		5.98		TAS		94.4	1.68	m_e mb	5.8
SCHI	67.71		P	02:28:30.461	-0.6	17.3		5.98		TAS		40.8	0.99	m_e mb	5.6
TANN	70.56		P	02:28:46.704		17.3		5.98		TAS		8.6	0.94	m_e mb	4.9
TNS	71.49		P	02:28:53.553		17.3		5.98		TAS		207.4	2.74	m_e mb	5.8
UBR	73.64		P	02:29:05.723		17.3		5.98		TAS		16.3	0.95	m_e mb	5.0
WET	71.69		P	02:28:54.347		17.3		5.98		TAS		28.9	1.35	m_e mb	5.2

Event 21225002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/25	11:26:48.00			47.2350	153.6510				35.0				8	75.00	78.04	m i ke	USGS
OrigID 21225020																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	21225008
Ms	4.3		BGR	21225008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	76.18		P	11:38:33.420		25.1		4.92		TAS		9.2	1.17	m_e	mb 4.8
CLL	76.06		P	11:38:32.587		25.1		4.92		TAS		15.3	0.56	m_e	mb 5.3
GOR1	75.00		P	11:38:31.216	0.1	25.1		4.92		TAS		60.9	1.56	m_e	mb 5.4
GRA1	78.01		P	11:38:44.487		25.1		4.92		TAS		13.5	0.63	m_e	mb 5.2
GRA1	78.01		L	12:32:10.322						T__		175.7	20.80	a_e	Ms 4.4
GTTG	76.66		P	11:38:34.925		25.1		4.92		TAS		617.2	4.14	m_e	mb 6.1
MOX	77.04		P	11:38:38.675		25.1		4.92		TAS		4.1	0.66	m_e	mb 4.7
MOX	77.04		L	12:22:11.590						T__		153.6	20.40	a_e	Ms 4.3
PLN	77.03		P	11:38:37.149		25.1		4.92		TAS		46.9	2.70	m_e	mb 5.1
WET	78.04		P	11:38:44.677		25.1		4.92		TAS		18.4	1.34	m_e	mb 5.0

Event 21225003 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/25	18:39:29.42			-16.0650	-172.5320				74.8	2.8		10		144.45	147.72	m i ke	BGR
OrigID 21225009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.72		PKPbc	18:59:10.119		6.5		3.03		TAS				m_e	
BUG	144.61		PKPbc	18:59:00.541		6.5		3.03		TAS				m_e	
CLL	144.47		PKPbc	18:59:00.952		6.5		3.03		TAS				m_e	
GEC2	146.82		PKPbc	18:59:07.795		6.5		3.03		TAS				m_e	
GTTG	144.45		PKPbc	18:59:00.625		6.5		3.03		TAS				m_e	
GTTG	144.45		pPKPbc	18:59:22.043						T__				m_e	
KAST	144.84		PKPbc	18:59:01.750		6.5		3.03		TAS				m_e	
MOX	145.25		PKPbc	18:59:02.688		6.5		3.03		TAS				m_e	
PLN	145.36		PKPbc	18:59:03.030		6.5		3.03		TAS				m_e	
STU	147.25		pPKPbc	18:59:27.708						T__				m_e	
TANN	145.41		PKPbc	18:59:03.303		6.5		3.03		TAS				m_e	
TANN	145.41		pPKPbc	18:59:24.547						T__				m_e	
TNS	145.82		PKPbc	18:59:05.722		6.5		3.03		TAS				m_e	
WET	146.62		PKPbc	18:59:06.923		6.5		3.03		TAS				m_e	
WET	146.62		pPKPbc	18:59:27.247						T__				m_e	
WLF	146.37		PKPbc	18:59:07.085		6.5		3.03		TAS				m_e	

Event 21226001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/26	05:26:57.72			-19.9030	-177.0760				518.8	1.7		26		145.47	151.60	m i ke	BGR
OrigID																	

21226007

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	149.16		PKPbc	05:46:42.295	0.5	15.4		2.62		TAS					m_e	
ASSE	147.19		PKPbc	05:46:36.906	0.4	15.4		2.62		TAS					m_e	
BFO	151.22		PKPbc	05:46:46.456		15.4		2.62		TAS					m_e	
BRG	147.81		PKPbc	05:46:38.783	0.2	15.4		2.62		TAS					m_e	
BRG	147.81		pPKPbc	05:48:39.546	-0.2	15.5		2.62		TAS					m_e	
BSEG	145.47		PKPbc	05:46:31.823	0.0	15.4		2.62		TAS					m_e	
BUG	148.25		PKPbc	05:46:39.907	0.4	15.4		2.62		TAS					m_e	
BUG	148.25		pPKPbc	05:48:41.175	-0.2	15.5		2.62		TAS					m_e	
CLL	147.59		PKPbc	05:46:38.075	0.7	15.4		2.62		TAS					m_e	
CLZ	147.51		PKPbc	05:46:37.368	0.6	15.4		2.62		TAS					m_e	
FLT1	146.91		PKPbc	05:46:35.520	-0.1	15.4		2.62		TAS					m_e	
FUR	150.92		PKPbc	05:46:45.686		15.4		2.62		TAS					m_e	
GEC2	149.77		PKPbc	05:46:43.222	-0.1	15.4		2.62		TAS					m_e	
GOR1	146.26		PKPbc	05:46:33.517	-0.4	15.4		2.62		TAS					m_e	
GRA1	149.46		PKPbc	05:46:43.376	-0.8	15.4		2.62		TAS					m_e	
GTTG	147.85		PKPbc	05:46:39.066	0.4	15.4		2.62		TAS					m_e	
HLG	145.48		PKPbc	05:46:32.499	-0.7	15.4		2.62		TAS					m_e	
IBBN	147.35		PKPbc	05:46:36.752	0.5	15.4		2.62		TAS					m_e	
KAST	148.38		PKPbc	05:46:40.287	0.1	15.4		2.62		TAS					m_e	
MOX	148.47		PKPbc	05:46:40.565	0.2	15.4		2.62		TAS					m_e	
NEUB	147.92		PKPbc	05:46:39.256	0.6	15.4		2.62		TAS					m_e	
PLN	148.53		PKPbc	05:46:40.603	0.8	15.4		2.62		TAS					m_e	
RUE	146.33		PKPbc	05:46:33.517	0.2	15.4		2.62		TAS					m_e	
STU	150.67		PKPbc	05:46:45.378		15.4		2.62		TAS					m_e	
TANN	148.54		PKPbc	05:46:40.295	0.0	15.4		2.62		TAS					m_e	
UBR	151.60		PKPbc	05:46:48.066		15.4		2.62		TAS					m_e	
WET	149.67		PKPbc	05:46:43.222	-0.8	15.4		2.62		TAS					m_e	
WET	149.67		pPKPbc	05:48:43.967	-0.2	15.5		2.62		TAS					m_e	
WLF	150.10		PKPbc	05:46:45.224		15.4		2.62		TAS					m_e	

Event 21226002 Ethiopia
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2022/12/26 12:21:07.00 14.4880 40.0150 10.0 19 40.53 45.74 m i ke USGS
 21226020

Magnitude Err Nsta Author OrigID
 mb 5.2 BGR 21226008
 Ms 4.3 BGR 21226008

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

AHRW	44.76	P	12:29:23.169		136.1	8.27	TAS	88.8	0.94	m_e	mb	5.7
ASSE	44.26	P	12:29:18.340	0.2	136.1	8.27	TAS	40.4	0.95	m_e	mb	5.1
BFO	42.69	P	12:29:06.087		136.1	8.27	TAS	44.7	1.17	m_e	mb	5.1
BRG	41.97	P	12:28:59.722	0.4	136.1	8.27	TAS	48.6	1.07	m_e	mb	5.2
BSEG	45.74	P	12:29:29.932	0.2	136.1	8.27	TAS	66.6	1.07	m_e	mb	5.6
BUG	45.27	P	12:29:26.816	-0.1	136.1	8.27	TAS	41.4	1.08	m_e	mb	5.3
CLL	42.68	P	12:29:05.415	0.5	136.1	8.27	TAS	49.9	1.08	m_e	mb	5.2
FLT1	44.17	P	12:29:17.007	0.2	136.1	8.27	TAS	41.9	1.05	m_e	mb	5.1
FUR	41.13	P	12:28:53.939		136.1	8.27	TAS	46.6	0.87	m_e	mb	5.2
GEC2	40.53	P	12:28:45.983		136.1	8.27	TAS	77.5	1.05	m_e	mb	5.4
GRA1	42.25	P	12:29:02.419		136.1	8.27	TAS	38.6	0.92	m_e	mb	5.1
GRA1	42.25	L	12:48:51.936				T__	345.7	21.70	a_e	Ms	4.2
KAST	44.58	P	12:29:20.794	-0.6	136.1	8.27	TAS	15.5	1.00	m_e	mb	4.9
MOX	42.77	P	12:29:06.102	0.2	136.1	8.27	TAS	42.7	0.96	m_e	mb	5.2
MOX	42.77	L	12:49:08.989				T__	420.4	20.70	a_e	Ms	4.3
PLN	42.42	P	12:29:03.886		136.1	8.27	TAS	28.6	1.05	m_e	mb	4.9
TANN	42.23	P	12:29:00.913		136.1	8.27	TAS	60.0	1.23	m_e	mb	5.2
TNS	43.90	P	12:29:15.201		136.1	8.27	TAS	54.8	1.11	m_e	mb	5.2
UBR	41.36	P	12:28:54.987		136.1	8.27	TAS	96.1	1.13	m_e	mb	5.4
WET	41.11	P	12:28:51.866		136.1	8.27	TAS	25.8	0.96	m_e	mb	4.9
WLF	44.64	P	12:29:21.728		136.1	8.27	TAS	31.5	1.02	m_e	mb	5.2

Event 21227001 Egypt

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/27	00:11:02.00			28.1150	33.3610				10.0			6		25.65	27.96	m i ke	USGS
OrigID 21227019																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	21227007
Ms	3.9		BGR	21227007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	27.96		P	00:16:54.488		133.7		8.74		TAS		11.2	1.03	m_e	mb	4.6
BRG	27.06		P	00:16:46.241		133.7		8.74		TAS		14.0	0.87	m_e	mb	4.7
CLL	27.77		P	00:16:52.156		133.7		8.74		TAS		19.4	0.86	m_e	mb	5.0
GEC2	25.65		P	00:16:34.100		133.7		8.74		TAS		21.0	1.05	m_e	mb	4.7
GRA1	27.39		L	00:38:53.962						T__		256.1	18.20	a_e	Ms	3.8
MOX	27.88		P	00:16:53.712		133.7		8.74		TAS		17.7	1.09	m_e	mb	4.8
MOX	27.88		L	00:39:02.647						T__		273.5	18.70	a_e	Ms	3.9
PLN	27.53		P	00:16:50.599		133.7		8.74		TAS		8.3	1.18	m_e	mb	4.5
TANN	27.34		P	00:16:49.043		133.7		8.74		TAS		9.0	0.99	m_e	mb	4.5
UBR	26.62		P	00:16:41.101		133.7		8.74		TAS		199.4	2.86	m_e	mb	5.3

Event 21227002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/27	01:00:55.06			-21.6650	-174.6360				25.8	0.3		24		147.47	153.68	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
Ms	5.3		BGR	21227008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	151.06		PKPbc	01:20:45.933	-0.3	11.5		2.41		TAS				m_e	
ASSE	149.23		PKPbc	01:20:41.108	0.2	11.5		2.41		TAS				m_e	
BFO	153.20		PKPbc	01:20:50.465		11.5		2.41		TAS				m_e	
BRG	150.00		PKPbc	01:20:42.825	0.2	11.5		2.41		TAS				m_e	
BSEG	147.47		PKPbc	01:20:36.232	-0.3	11.5		2.41		TAS				m_e	
BUG	150.15		PKPbc	01:20:43.460	-4.0	11.5		2.41		TAS				m_e	
CLL	149.73		PKPbc	01:20:42.258	0.1	11.5		2.41		TAS				m_e	
CLL	149.73		pPKPbc	01:20:49.955						T__				m_e	
CLZ	149.54		PKPbc	01:20:42.070	0.7	11.5		2.41		TAS				m_e	
FLT1	148.97		PKPbc	01:20:40.318	0.2	11.5		2.41		TAS				m_e	
FUR	153.05		PKPbc	01:20:50.139		11.5		2.41		TAS				m_e	
GEC2	151.99		PKPbc	01:20:47.375		11.5		2.41		TAS				m_e	
GRA1	151.56		L	02:25:48.710						T__		486.7	21.00	a_e Ms	5.3
GTTG	149.87		PKPbc	01:20:43.168	0.1	11.5		2.41		TAS				m_e	
IBBN	149.27		PKPbc	01:20:40.902	0.1	11.5		2.41		TAS				m_e	
KAST	150.33		PKPbc	01:20:43.855	0.4	11.5		2.41		TAS				m_e	
MOX	150.57		PKPbc	01:20:43.845	0.6	11.5		2.41		TAS				m_e	
MOX	150.57		L	02:34:12.170						T__		547.0	19.10	a_e Ms	5.4
NEUB	150.02		PKPbc	01:20:43.426	0.4	11.5		2.41		TAS				m_e	
PLN	150.66		PKPbc	01:20:44.662	0.3	11.5		2.41		TAS				m_e	
RUE	148.48		PKPbc	01:20:39.391	0.7	11.5		2.41		TAS				m_e	
STU	152.69		PKPbc	01:20:49.555		11.5		2.41		TAS				m_e	
TANN	150.68		PKPbc	01:20:44.576	-0.1	11.5		2.41		TAS				m_e	
TANN	150.68		pPKPbc	01:20:52.431						T__				m_e	
TNS	151.30		PKPbc	01:20:46.190	0.1	11.5		2.41		TAS				m_e	
UBR	153.68		PKPbc	01:20:51.444		11.5		2.41		TAS				m_e	
WLF	151.96		PKPbc	01:20:48.508	-0.1	11.5		2.41		TAS				m_e	

Event 21228004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/28	07:44:52.15			44.3040	148.1240				33.0			24		75.35	81.12	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID

mb 5.5 BGR 21228010
 Ms 4.7 BGR 21228010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	79.53		P	07:56:54.362	0.5	29.9		5.49		TAS		29.6	1.01	m_e	mb 5.2
ASSE	77.06		P	07:56:40.439	-0.3	29.9		5.49		TAS		52.9	1.25	m_e	mb 5.5
BFO	81.12		P	07:57:02.415		29.9		5.49		TAS		14.7	0.96	m_e	mb 5.0
BRG	77.10		P	07:56:40.638	-0.2	29.9		5.49		TAS		21.0	0.91	m_e	mb 5.3
BSEG	75.60		P	07:56:32.518	0.4	29.9		5.49		TAS		37.7	0.83	m_e	mb 5.6
BUG	78.68		P	07:56:49.271	-0.2	29.9		5.49		TAS		23.1	0.84	m_e	mb 5.2
CLL	77.03		P	07:56:40.219	-0.3	29.9		5.49		TAS		86.2	0.72	m_e	mb 6.0
CLZ	77.40		P	07:56:42.853	0.0	29.9		5.49		TAS		48.6	0.78	m_e	mb 5.7
FLT1	76.71		P	07:56:38.375	-0.2	29.9		5.49		TAS		53.7	0.77	m_e	mb 5.7
FUR	80.31		P	07:56:58.539		29.9		5.49		TAS		70.5	1.24	m_e	mb 5.5
GEC2	78.91		P	07:56:50.754		29.9		5.49		TAS		15.3	0.67	m_e	mb 5.2
GOR1	76.12		P	07:56:35.894	-0.4	29.9		5.49		TAS		107.9	1.34	m_e	mb 5.8
GRA1	79.01		P	07:56:51.977		29.9		5.49		TAS		70.1	0.78	m_e	mb 5.8
GRA1	79.01		L	08:32:56.991						T__		328.8	19.60	a_e	Ms 4.7
GTTG	77.79		P	07:56:45.041	-0.2	29.9		5.49		TAS		49.6	0.90	m_e	mb 5.6
KAST	78.55		P	07:56:48.845	0.2	29.9		5.49		TAS		23.8	0.89	m_e	mb 5.2
MOX	78.05		P	07:56:45.836	0.6	29.9		5.49		TAS		24.3	0.93	m_e	mb 5.3
MOX	78.05		L	08:30:49.424						T__		367.1	21.70	a_e	Ms 4.7
NEUB	77.53		P	07:56:43.057	0.1	29.9		5.49		TAS		59.3	0.84	m_e	mb 5.8
PLN	78.02		P	07:56:46.007	-0.0	29.9		5.49		TAS		8.1	0.91	m_e	mb 4.8
RUE	75.79		P	07:56:33.495	0.3	29.9		5.49		TAS		57.2	0.71	m_e	mb 5.8
SCHI	75.35		P	07:56:31.242	-0.2	29.9		5.49		TAS		120.8	0.60	m_e	mb 6.1
STU	80.45		P	07:56:59.047		29.9		5.49		TAS		80.5	0.98	m_e	mb 5.7
TANN	77.98		P	07:56:45.526	-0.2	29.9		5.49		TAS		13.6	0.88	m_e	mb 5.1
TNS	79.41		P	07:56:53.650	-0.5	29.9		5.49		TAS		20.3	0.88	m_e	mb 5.1
WET	78.93		P	07:56:51.450		29.9		5.49		TAS		39.1	0.81	m_e	mb 5.5

Event 21228005 Ethiopia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/28	16:14:57.00			14.6340	39.9480				10.0			11		40.37	45.58	m i ke	USGS
21228023																	

Magnitude Err Nsta Author OrigID
 mb 5.2 BGR 21228011
 Ms 4.1 BGR 21228011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	44.60		P	16:23:10.626		135.4		8.28		TAS		148.4	1.62	m_e	mb 5.7
BRG	41.81		P	16:22:47.105		135.4		8.28		TAS		79.0	1.73	m_e	mb 5.2
BSEG	45.58		P	16:23:17.675	0.1	135.4		8.28		TAS		125.9	1.72	m_e	mb 5.7
CLL	42.52		P	16:22:52.676		135.4		8.28		TAS		70.4	1.70	m_e	mb 5.1

FLT1	44.01	P	16:23:04.467	-0.3	135.4	8.28	TAS	50.2	1.66	m_e	mb	5.0
GEC2	40.37	P	16:22:35.332		135.4	8.28	TAS	109.0	1.65	m_e	mb	5.2
GRA1	42.09	P	16:22:49.196		135.4	8.28	TAS			m_e		
GRA1	42.09	L	16:56:16.174				T__	271.9	20.50	a_e	Ms	4.1
MOX	42.61	P	16:22:53.532		135.4	8.28	TAS	57.7	1.57	m_e	mb	5.1
MOX	42.61	L	16:56:12.259				T__	219.1	22.00	a_e	Ms	4.0
PLN	42.26	P	16:22:50.565		135.4	8.28	TAS			m_e		
TANN	42.08	P	16:22:49.613		135.4	8.28	TAS	70.9	1.65	m_e	mb	5.1
WET	40.95	P	16:22:39.439		135.4	8.28	TAS	36.8	1.50	m_e	mb	4.9

Event 21228007 Southern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/28	17:16:33.75			40.4850	79.9960				33.0			28		45.41	50.95	m i ke	BGR
21228013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	21228013
MBB	6.0		BGR	21228013
Ms	5.4		BGR	21228013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	50.10		P	17:25:24.270		73.5		7.76		TAS		55.6	1.01	m_e	MBB	5.6
ASSE	47.49		P	17:25:03.709	-0.2	73.5		7.76		TAS		143.1	1.95	m_e	mb	5.8
BFO	50.04		P	17:25:23.721		73.5		7.76		TAS		62.6	1.11	m_e	MBB	5.7
BRG	45.82		P	17:24:50.888	-0.4	73.5		7.76		TAS		131.2	1.51	m_e	MBB	5.8
BSEG	47.26		P	17:25:02.209	0.8	73.5		7.76		TAS		173.9	1.16	m_e	MBB	6.2
BUG	49.71		P	17:25:21.573	0.0	73.5		7.76		TAS		78.7	1.14	m_e	MBB	6.0
CLL	46.29		P	17:24:54.288	-0.6	73.5		7.76		TAS		113.6	1.03	m_e	MBB	6.0
CLZ	47.74		P	17:25:05.808	-0.2	73.5		7.76		TAS		72.4	1.17	m_e	MBB	5.9
FLT1	47.10		P	17:25:00.191	-0.7	73.5		7.76		TAS		93.8	1.06	m_e	MBB	6.1
FUR	48.23		P	17:25:10.900	-0.4	73.5		7.76		TAS		181.5	1.29	m_e	MBB	6.3
GEC2	46.49		P	17:24:56.829	0.4	73.5		7.76		TAS		109.2	1.45	m_e	MBB	6.0
GOR1	46.90		P	17:24:59.644	0.5	73.5		7.76		TAS		231.6	1.22	m_e	MBB	6.4
GRA1	47.81		P	17:25:07.383	0.6	73.5		7.76		TAS		160.8	1.07	m_e	mb	6.1
GRA1	47.81		L	18:00:07.861						T__		5027.2	22.00	a_e	Ms	5.5
GTTG	48.07		P	17:25:08.908	0.3	73.5		7.76		TAS		198.9	1.04	m_e	MBB	6.4
IBBN	49.17		P	17:25:16.452	0.3	73.5		7.76		TAS		118.1	1.13	m_e	MBB	6.0
KAST	49.09		P	17:25:16.178	0.3	73.5		7.76		TAS		27.7	1.03	m_e	MBB	5.8
MOX	47.31		P	17:25:02.419	-0.4	73.5		7.76		TAS		83.8	1.16	m_e	MBB	5.9
MOX	47.31		L	17:58:56.511						T__		3825.8	21.30	a_e	Ms	5.3
NEUB	47.07		P	17:25:00.269	-0.7	73.5		7.76		TAS		138.4	1.02	m_e	MBB	6.2
PLN	47.02		P	17:24:59.979	-0.6	73.5		7.76		TAS		25.4	1.23	m_e	MBB	5.4
RGN	45.41		P	17:24:47.917	0.9	73.5		7.76		TAS		572.1	1.05	m_e	MBB	6.6
RUE	45.55		P	17:24:48.112	-0.9	73.5		7.76		TAS		157.4	1.22	m_e	MBB	6.0
SCHI	45.92		P	17:24:52.178	0.7	73.5		7.76		TAS		384.1	1.05	m_e	MBB	6.5

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STU	49.35	P	17:25:19.148	-0.4	73.5	7.76	TAS	233.3	1.18	m_e	MBB	6.4
TANN	46.85	P	17:24:59.136	-0.2	73.5	7.76	TAS	82.8	1.17	m_e	MBB	6.0
TNS	49.37	P	17:25:18.640	-0.2	73.5	7.76	TAS	33.0	1.01	m_e	MBB	5.7
UBR	49.13	P	17:25:17.195	-0.2	73.5	7.76	TAS	266.1	1.64	m_e	MBB	6.0
WET	46.93	P	17:25:00.268	0.3	73.5	7.76	TAS	60.1	1.15	m_e	MBB	5.9
WLF	50.95	P	17:25:31.149		73.5	7.76	TAS	78.5	1.06	m_e	MBB	5.7

Event 21229002 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/29	06:10:42.75			-23.7640	-175.2960				103.1			19		149.49	153.78	m i ke	BGR
OrigID 21229008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	151.23		PKPbc	06:30:33.157	-0.2	13.5		2.23		TAS				m_e	
BRG	151.93		PKPbc	06:30:34.869	-0.1	13.5		2.23		TAS				m_e	
BSEG	149.49		PKPbc	06:30:29.360	0.9	13.5		2.23		TAS				m_e	
BUG	152.21		PKPbc	06:30:35.752	0.1	13.5		2.23		TAS				m_e	
CLL	151.68		PKPbc	06:30:34.273	-0.2	13.5		2.23		TAS				m_e	
CLZ	151.54		PKPbc	06:30:34.480	-0.2	13.5		2.23		TAS				m_e	
FLT1	150.96		PKPbc	06:30:32.549	0.2	13.5		2.23		TAS				m_e	
GOR1	150.31		PKPbc	06:30:32.274	-0.1	13.5		2.23		TAS				m_e	
GTTG	151.88		PKPbc	06:30:35.155	-0.1	13.5		2.23		TAS				m_e	
IBBN	151.32		PKPbc	06:30:33.780	0.3	13.5		2.23		TAS				m_e	
KAST	152.37		PKPbc	06:30:36.089	0.1	13.5		2.23		TAS				m_e	
MOX	152.55		PKPbc	06:30:36.452	0.1	13.5		2.23		TAS				m_e	
NEUB	151.99		PKPbc	06:30:35.181	0.0	13.5		2.23		TAS				m_e	
NEUB	151.99		pPKPbc	06:31:03.318						T_				m_e	
PLN	152.62		PKPbc	06:30:36.530		13.5		2.23		TAS				m_e	
RUE	150.43		PKPbc	06:30:31.548	-0.3	13.5		2.23		TAS				m_e	
SCHI	149.75		PKPbc	06:30:30.133	-0.1	13.5		2.23		TAS				m_e	
TANN	152.64		PKPbc	06:30:36.530		13.5		2.23		TAS				m_e	
TNS	153.34		PKPbc	06:30:38.373		13.5		2.23		TAS				m_e	
WET	153.78		PKPbc	06:30:39.255		13.5		2.23		TAS				m_e	

Event 21229003 Southwest of Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/29	23:26:47.00			-0.1990	97.3490				10.0			14		85.98	90.34	m i ke	USGS
OrigID 21229021																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	21229009
Ms	4.4		BGR	21229009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	90.34		P	23:39:53.082		93.1		4.94		TAS		29.0	1.09	m_e	mb	5.4
ASSE	88.12		P	23:39:39.259	-0.1	93.1		4.94		TAS		14.0	1.16	m_e	mb	5.2
BRG	86.00		P	23:39:29.972		93.1		4.94		TAS		9.5	0.96	m_e	mb	4.9
BUG	90.22		P	23:39:50.408	-0.7	93.1		4.94		TAS		19.3	0.93	m_e	mb	5.3
CLL	86.63		P	23:39:32.074	-0.5	93.1		4.94		TAS		17.1	1.17	m_e	mb	5.1
CLZ	88.29		P	23:39:41.102	0.4	93.1		4.94		TAS		19.5	1.04	m_e	mb	5.4
GEC2	85.98		P	23:39:30.185		93.1		4.94		TAS		28.8	1.26	m_e	mb	5.3
GRA1	87.66		P	23:39:40.450		93.1		4.94		TAS		32.6	1.32	m_e	mb	5.5
GRA1	87.66		L	00:26:37.859						T__		211.9	20.00	a_e	Ms	4.5
GTTG	88.54		P	23:39:42.051	1.7	93.1		4.94		TAS		23.7	1.13	m_e	mb	5.3
KAST	89.50		P	23:39:46.034		93.1		4.94		TAS		17.3	1.01	m_e	mb	5.2
MOX	87.45		L	00:27:34.665						T__		127.4	21.30	a_e	Ms	4.3
PLN	87.10		P	23:39:35.652		93.1		4.94		TAS		2.7	0.97	m_e	mb	4.3
RUE	86.24		P	23:39:32.868	-1.3	93.1		4.94		TAS				m_e		
TNS	89.46		P	23:39:47.896		93.1		4.94		TAS		17.5	1.04	m_e	mb	5.2
WET	86.54		P	23:39:32.727		93.1		4.94		TAS		13.4	1.06	m_e	mb	5.0

Event 21230002 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/30	09:42:13.10			-22.2140	-173.7900			41.3		1.7		26		148.09	154.31	m i ke	BGR
OrigID 21230008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.9		BGR	21230008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	151.63		PKPbc	10:02:03.092	0.3	10.0		2.35		TAS				m_e	
ASSE	149.85		PKPbc	10:01:58.024	-0.3	10.0		2.35		TAS				m_e	
BFO	153.79		PKPbc	10:02:07.227	-0.5	10.0		2.35		TAS				m_e	
BRG	150.68		PKPbc	10:02:00.202	-0.1	10.0		2.35		TAS				m_e	
BSEG	148.09		PKPbc	10:01:53.709	-0.5	10.0		2.35		TAS				m_e	
BUG	150.72		PKPbc	10:02:00.401	-0.2	10.0		2.35		TAS				m_e	
BUG	150.72		pPKPbc	10:02:13.377		12.6		2.46		TAS				m_e	
CLL	150.40		PKPbc	10:01:59.550	-0.1	10.0		2.35		TAS				m_e	
CLL	150.40		pPKPbc	10:02:11.938		12.6		2.46		TAS				m_e	
CLZ	150.16		PKPbc	10:01:59.335	0.3	10.0		2.35		TAS				m_e	
CLZ	150.16		pPKPbc	10:02:11.371		12.6		2.46		TAS				m_e	
FLT1	149.60		PKPbc	10:01:57.288	-0.4	10.0		2.35		TAS				m_e	
FUR	153.70		PKPbc	10:02:07.540	0.2	10.0		2.35		TAS				m_e	
GEC2	152.68		PKPbc	10:02:04.723	-0.3	10.0		2.35		TAS				m_e	

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GOR1	148.94	PKPbc	10:01:56.193	0.0	10.0	2.35	TAS										m_e
GRA1	152.21	PKPbc	10:02:04.340	0.5	10.0	2.35	TAS										m_e
GRA1	152.21	L	11:07:07.427				T__				228.7	21.80	a_e Ms			4.9	
GTTG	150.49	PKPbc	10:02:00.107	0.3	10.0	2.35	TAS										m_e
KAST	150.92	PKPbc	10:02:00.764	-0.2	10.0	2.35	TAS										m_e
MOX	151.22	PKPbc	10:02:01.464	-0.1	10.0	2.35	TAS										m_e
MOX	151.22	pPKPbc	10:02:13.873		12.6	2.46	TAS										m_e
NEUB	150.66	PKPbc	10:02:00.169	-0.0	10.0	2.35	TAS										m_e
PLN	151.31	PKPbc	10:02:01.984	0.2	10.0	2.35	TAS										m_e
RUE	149.15	PKPbc	10:01:56.938	0.3	10.0	2.35	TAS										m_e
SCHI	148.43	PKPbc	10:01:55.531	0.6	10.0	2.35	TAS										m_e
STU	153.30	PKPbc	10:02:06.679	0.2	10.0	2.35	TAS										m_e
TANN	151.34	PKPbc	10:02:01.868	0.0	10.0	2.35	TAS										m_e
TNS	151.90	PKPbc	10:02:03.065	-0.2	10.0	2.35	TAS										m_e
UBR	154.31	PKPbc	10:02:08.776	-0.0	10.0	2.35	TAS										m_e
WET	152.52	PKPbc	10:02:04.436	-0.2	10.0	2.35	TAS										m_e
WLF	152.51	PKPbc	10:02:05.400	0.4	10.0	2.35	TAS										m_e

Event 21231002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2022/12/31	09:33:07.83			-20.7400	-176.2640				33.0			17		146.40	152.55	m i ke	BGR
21231008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	148.12		PKPbc	09:52:50.886	0.3	14.3		2.52		TAS					m_e
BFO	152.13		PKPbc	09:53:00.647		14.3		2.52		TAS					m_e
BRG	148.79		PKPbc	09:52:52.478	0.4	14.3		2.52		TAS					m_e
BSEG	146.40		PKPbc	09:52:45.902	-0.6	14.3		2.52		TAS					m_e
BUG	149.14		PKPbc	09:52:53.447	0.0	14.3		2.52		TAS					m_e
CLL	148.56		PKPbc	09:52:51.855	0.3	14.3		2.52		TAS					m_e
CLZ	148.44		PKPbc	09:52:51.855	0.1	14.3		2.52		TAS					m_e
FLT1	147.85		PKPbc	09:52:49.848	0.1	14.3		2.52		TAS					m_e
GEC2	150.76		PKPbc	09:52:57.393		14.3		2.52		TAS					m_e
GTTG	148.78		PKPbc	09:52:52.548	-0.2	14.3		2.52		TAS					m_e
KAST	149.29		PKPbc	09:52:54.209	-0.0	14.3		2.52		TAS					m_e
PLN	149.50		PKPbc	09:52:54.417	0.4	14.3		2.52		TAS					m_e
STU	151.60		PKPbc	09:52:59.816		14.3		2.52		TAS					m_e
TANN	149.51		PKPbc	09:52:54.624	-0.1	14.3		2.52		TAS					m_e
TNS	150.25		PKPbc	09:52:56.632	-0.1	14.3		2.52		TAS					m_e
UBR	152.55		PKPbc	09:53:01.408		14.3		2.52		TAS					m_e
WET	150.65		PKPbc	09:52:57.047	-0.5	14.3		2.52		TAS					m_e

