

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

(produced by SZO/BGR - HANNOVER)

December 2017

UPDATED 12.December 2019

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

Event 71201001 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/01	02:32:59.98			30.8200	55.3200				33.0			30		36.14	41.15	m i ke	BGR
OrigID 71201007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	71201007
MBB	6.6		BGR	71201007
Ms	5.3		BGR	71201007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	38.86		P	02:40:22.170	-0.2	105.0		8.38		TAS				m_e	
BRG	36.54		P	02:40:03.487	0.1	105.0		8.38		TAS				m_e	
BSEG	39.57		P	02:40:27.987	0.0	105.0		8.38		TAS		415.1	1.15	m_e	MBB 6.7
BUG	40.75		P	02:40:38.298	0.1	105.0		8.38		TAS		244.1	1.02	m_e	MBB 6.6
CLL	37.24		P	02:40:08.863	-0.2	105.0		8.38		TAS		565.1	1.20	m_e	MBB 6.7
FBE	36.91		P	02:40:05.867	0.2	105.0		8.38		TAS				m_e	
FLT1	38.58		P	02:40:19.780	0.1	105.0		8.38		TAS		512.5	1.15	m_e	MBB 6.7
GEC2	36.14		P	02:39:59.433	0.3	105.0		8.38		TAS		444.2	1.02	m_e	MBB 6.8
GOR1	38.73		P	02:40:21.113	0.2	105.0		8.38		TAS		663.4	1.24	m_e	MBB 6.7
GRA1	37.92		P	02:40:14.591	-0.5	105.0		8.38		TAS				m_e	
GRA1	37.92		L	02:59:42.497						T__		5684.1	19.60	a_e	Ms 5.4
GTTG	39.13		P	02:40:24.863	-0.4	105.0		8.38		TAS				m_e	
GUNZ	37.39		P	02:40:09.480	0.4	105.0		8.38		TAS				m_e	
IBBN	40.64		P	02:40:36.913	-0.1	105.0		8.38		TAS		371.4	1.28	m_e	MBB 6.7
KAST	40.00		P	02:40:32.338	0.1	105.0		8.38		TAS				m_e	
MANZ	37.43		P	02:40:10.327	0.2	105.0		8.38		TAS				m_e	
MOX	37.90		P	02:40:14.240	-0.4	105.0		8.38		TAS		62.2	0.95	m_e	MBB 6.4
MOX	37.90		L	03:00:33.396						T__		3687.3	21.00	a_e	Ms 5.2
NEUB	37.95		P	02:40:14.904	-0.0	105.0		8.38		TAS				m_e	

NRDL	39.29	P	02:40:26.115	0.6	105.0	8.38	TAS	398.7	1.39	m_e	MBB	6.7
PLN	37.52	P	02:40:10.802	-0.1	105.0	8.38	TAS			m_e		
RETH	39.79	P	02:40:30.102	-0.2	105.0	8.38	TAS			m_e		
RGN	38.11	P	02:40:15.590	-0.5	105.0	8.38	TAS	2421.1	1.33	m_e	MBB	7.0
ROTZ	37.31	P	02:40:09.215	-0.4	105.0	8.38	TAS	22.7	1.12	m_e	MBB	5.9
RUE	37.14	P	02:40:07.541	0.0	105.0	8.38	TAS	428.2	1.12	m_e	MBB	6.8
TANN	37.32	P	02:40:08.951	-0.1	105.0	8.38	TAS			m_e		
TNS	39.78	P	02:40:29.573	-0.3	105.0	8.38	TAS	306.9	1.25	m_e	MBB	6.6
UBBA	38.94	P	02:40:23.073	-0.0	105.0	8.38	TAS	220.1	1.51	m_e	MBB	6.5
UBR	38.25	P	02:40:16.795		105.0	8.38	TAS	408.4	1.07	m_e	MBB	6.7
WERN	37.34	P	02:40:09.304		105.0	8.38	TAS	280.5	1.92	m_e	MBB	6.2
WET	36.74	P	02:40:04.192		105.0	8.38	TAS	252.6	1.37	m_e	MBB	6.6
WLF	41.15	P	02:40:41.118		105.0	8.38	TAS	141.2	1.18	m_e	MBB	6.4

Event 71201003 Eastern New Guinea, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/01	02:50:01.30			-6.1300	147.6300				74.0			25		121.15	125.88	m i ke	EMSC
	71201035																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.8		BGR	71201009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	122.11		PKPdf	03:08:47.392	-0.1	55.1		1.90		TAS				m_e		
BFO	125.60		PKPdf	03:08:53.650		55.1		1.90		TAS				m_e		
BRG	121.15		PKPdf	03:08:46.401	0.0	55.1		1.90		TAS				m_e		
BSEG	121.18		PKPdf	03:08:45.932	0.1	55.1		1.90		TAS				m_e		
CLL	121.40		PKPdf	03:08:45.880	0.0	55.1		1.90		TAS				m_e		
FBE	121.43		PKPdf	03:08:46.245	0.1	55.1		1.90		TAS				m_e		
FLT1	121.71		PKPdf	03:08:46.454	0.7	55.1		1.90		TAS				m_e		
FUR	124.09		PKPdf	03:08:51.251		55.1		1.90		TAS				m_e		
GEC2	122.37		PKPdf	03:08:47.914		55.1		1.90		TAS				m_e		
GOR1	121.28		PKPdf	03:08:46.193	-0.4	55.1		1.90		TAS				m_e		
GRA1	123.26		PKPdf	03:08:49.634		55.1		1.90		TAS				m_e		
GRA1	123.26		L	04:03:41.621						T__		2429.8	20.90	a_e	Ms	5.8
GUNZ	122.28		PKPdf	03:08:47.966	-0.5	55.1		1.90		TAS				m_e		
KAST	123.79		PKPdf	03:08:50.886	0.1	55.1		1.90		TAS				m_e		
MANZ	122.62		PKPdf	03:08:48.487		55.1		1.90		TAS				m_e		
MOX	122.50		PKPdf	03:08:48.122	-0.0	55.1		1.90		TAS				m_e		
MOX	122.50		L	04:03:15.663						T__		2196.4	21.10	a_e	Ms	5.8
NRDL	122.16		PKPdf	03:08:47.861	-0.3	55.1		1.90		TAS				m_e		
PLN	122.31		PKPdf	03:08:47.757	0.1	55.1		1.90		TAS				m_e		
STU	124.87		PKPdf	03:08:52.815		55.1		1.90		TAS				m_e		
TANN	122.19		PKPdf	03:08:47.653	0.1	55.1		1.90		TAS				m_e		
TNS	124.38		PKPdf	03:08:51.929	-0.1	55.1		1.90		TAS				m_e		

UBR	125.01	PKPdf	03:08:52.867	55.1	1.90	TAS	m_e
WERD	122.25	PKPdf	03:08:47.653	-0.1 55.1	1.90	TAS	m_e
WERN	122.30	PKPdf	03:08:47.966	0.0 55.1	1.90	TAS	m_e
WET	122.66	PKPdf	03:08:48.644	55.1	1.90	TAS	m_e
WLF	125.88	PKPdf	03:08:55.266	55.1	1.90	TAS	m_e

Event 71201004 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/01	03:35:01.30			30.6500	57.4100				10.0			16		37.59	40.89	m i ke	EMSC
71201036																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	71201010
Ms	5.0		BGR	71201010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	40.89		P	03:42:43.180	0.2	101.3		8.59		TAS		28.6	0.87	m_e mb	5.0
CLL	38.62		P	03:42:24.188	-0.1	101.3		8.59		TAS		56.5	1.06	m_e mb	5.1
FBE	38.31		P	03:42:21.023	0.7	101.3		8.59		TAS		7.7	0.89	m_e mb	4.4
FLT1	39.94		P	03:42:35.003	-0.3	101.3		8.59		TAS		35.9	0.95	m_e mb	5.0
FUR	39.05		P	03:42:27.327		101.3		8.59		TAS		16.9	0.83	m_e mb	4.7
GEC2	37.59		P	03:42:14.943		101.3		8.59		TAS		41.2	0.89	m_e mb	5.2
GOR1	40.07		P	03:42:36.585	-0.4	101.3		8.59		TAS		49.1	1.29	m_e mb	5.0
GRA1	39.36		P	03:42:29.727		101.3		8.59		TAS		18.4	0.85	m_e mb	4.7
GRA1	39.36		L	04:03:41.589						T__		2429.8	20.90	a_e Ms	5.0
GTTG	40.52		P	03:42:40.146	-0.4	101.3		8.59		TAS		30.4	1.26	m_e mb	4.9
GUNZ	38.80		P	03:42:24.818		101.3		8.59		TAS		8.0	0.97	m_e mb	4.3
MOX	39.31		L	04:03:15.655						T__		2196.4	21.10	a_e Ms	5.0
RGN	39.38		P	03:42:30.782	0.9	101.3		8.59		TAS		162.6	0.85	m_e mb	5.7
ROTZ	38.75		P	03:42:24.584		101.3		8.59		TAS		9.3	1.41	m_e mb	4.2
TANN	38.73		P	03:42:24.715		101.3		8.59		TAS		7.4	1.15	m_e mb	4.2
UBR	39.75		P	03:42:33.066		101.3		8.59		TAS		30.0	0.98	m_e mb	4.9
WERD	38.84		P	03:42:26.694		101.3		8.59		TAS		5.9	0.97	m_e mb	4.2
WET	38.19		P	03:42:19.845		101.3		8.59		TAS		9.3	0.97	m_e mb	4.5

Event 71201002 Vanuatu Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/01	04:31:41.08			-20.6390	171.3330				33.0			21		144.80	149.17	m i ke	BGR
71201008																	

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

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.16		PKPbc	04:51:14.150	-0.1	35.7		2.92		TAS				m_e	
BFO	149.17		PKPbc	04:51:25.303		35.7		2.92		TAS				m_e	
BRG	144.98		PKPbc	04:51:13.685	0.3	35.7		2.92		TAS				m_e	
CLL	145.00		PKPbc	04:51:12.755	0.1	35.7		2.92		TAS				m_e	
FBE	145.17		PKPbc	04:51:14.042		35.7		2.92		TAS				m_e	
FLT1	144.80		PKPbc	04:51:12.755	0.0	35.7		2.92		TAS				m_e	
GRA1	146.97		PKPbc	04:51:19.726		35.7		2.92		TAS				m_e	
GTTG	145.88		PKPbc	04:51:16.938	0.0	35.7		2.92		TAS				m_e	
GUNZ	146.01		PKPbc	04:51:16.822		35.7		2.92		TAS				m_e	
IBBN	145.91		PKPbc	04:51:17.054	0.0	35.7		2.92		TAS				m_e	
MOX	146.05		PKPbc	04:51:16.706	-0.6	35.7		2.92		TAS				m_e	
NEUB	145.55		PKPbc	04:51:15.311	0.6	35.7		2.92		TAS				m_e	
NRDL	145.03		PKPbc	04:51:13.917	0.6	35.7		2.92		TAS				m_e	
PLN	145.98		PKPbc	04:51:16.589		35.7		2.92		TAS				m_e	
RETH	145.06		PKPbc	04:51:14.033	-0.1	35.7		2.92		TAS				m_e	
ROTZ	146.53		PKPbc	04:51:18.100		35.7		2.92		TAS				m_e	
TANN	145.92		PKPbc	04:51:16.473		35.7		2.92		TAS				m_e	
TNS	147.52		PKPbc	04:51:21.659		35.7		2.92		TAS				m_e	
WERD	145.95		PKPbc	04:51:16.706		35.7		2.92		TAS				m_e	
WERN	146.05		PKPbc	04:51:17.403		35.7		2.92		TAS				m_e	
WET	146.75		PKPbc	04:51:18.913		35.7		2.92		TAS				m_e	

Event 71201015 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/01	20:48:01.72			42.7600	142.9750				33.0			30		75.50	80.20	m i ke	BGR
71201021																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	71201021
Ms	4.2		BGR	71201021

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	76.88		P	20:59:48.632	0.0	34.0		5.52		TAS		10.0	0.92	m_e mb	4.9
BRG	76.73		P	20:59:48.566	0.0	34.0		5.52		TAS		9.5	0.75	m_e mb	5.0
BSEG	75.50		P	20:59:41.235	0.2	34.0		5.52		TAS		32.3	0.78	m_e mb	5.4
BUG	78.60		P	20:59:58.208	0.0	34.0		5.52		TAS		37.1	0.78	m_e mb	5.5
CLL	76.73		P	20:59:47.575	-0.3	34.0		5.52		TAS		34.6	0.77	m_e mb	5.6
FBE	76.91		P	20:59:48.962	-0.3	34.0		5.52		TAS		26.2	0.89	m_e mb	5.4
FLT1	76.51		P	20:59:46.387	0.2	34.0		5.52		TAS		54.2	0.79	m_e mb	5.7
FUR	79.95		P	21:00:05.803		34.0		5.52		TAS		54.8	0.82	m_e mb	5.5
GEC2	78.47		P	20:59:57.481		34.0		5.52		TAS		11.6	0.86	m_e mb	5.0
GOR1	75.94		P	20:59:43.811	-0.1	34.0		5.52		TAS		26.0	1.03	m_e mb	5.3
GRA1	78.70		P	20:59:59.331	-0.2	34.0		5.52		TAS		54.0	0.72	m_e mb	5.7

GRA1	78.70	L	21:37:17.987							T__	111.2	21.40	a_e	Ms	4.2
GTTG	77.61	P	20:59:52.991	-0.4	34.0		5.52			TAS	37.5	0.82	m_e	mb	5.6
GUNZ	77.74	P	20:59:53.585	0.0	34.0		5.52			TAS	14.2	0.76	m_e	mb	5.2
IBBN	77.70	P	20:59:53.321	-0.1	34.0		5.52			TAS	46.6	0.81	m_e	mb	5.7
KAST	78.42	P	20:59:57.283	-0.0	34.0		5.52			TAS	17.4	0.74	m_e	mb	5.3
MANZ	78.14	P	20:59:55.632	0.5	34.0		5.52			TAS	2.9	0.70	m_e	mb	4.5
MOX	77.77	P	20:59:53.783	-0.1	34.0		5.52			TAS	11.1	0.66	m_e	mb	5.1
MOX	77.77	L	21:35:27.804							T__	118.0	21.50	a_e	Ms	4.2
NEUB	77.26	P	20:59:50.613	0.6	34.0		5.52			TAS	42.3	0.77	m_e	mb	5.6
NRDL	76.77	P	20:59:48.038	0.1	34.0		5.52			TAS	15.6	0.74	m_e	mb	5.2
PLN	77.71	P	20:59:53.255	-0.2	34.0		5.52			TAS	10.2	0.81	m_e	mb	5.0
RETH	76.81	P	20:59:48.566	-0.1	34.0		5.52			TAS	24.9	1.01	m_e	mb	5.3
ROTZ	78.28	P	20:59:56.755	0.3	34.0		5.52			TAS	4.1	0.89	m_e	mb	4.6
RUE	75.50	P	20:59:41.037	-0.4	34.0		5.52			TAS	34.9	0.69	m_e	mb	5.5
STU	80.20	P	21:00:06.925		34.0		5.52			TAS	88.9	0.72	m_e	mb	5.8
TANN	77.65	P	20:59:52.925	0.1	34.0		5.52			TAS	7.1	0.93	m_e	mb	4.8
TNS	79.24	P	21:00:01.840	0.2	34.0		5.52			TAS	17.3	0.96	m_e	mb	5.1
UBBA	78.20	P	20:59:55.764	-0.1	34.0		5.52			TAS	9.2	0.58	m_e	mb	5.1
WERD	77.68	P	20:59:53.123	0.0	34.0		5.52			TAS	10.0	0.85	m_e	mb	5.0
WERN	77.79	P	20:59:53.915	-0.1	34.0		5.52			TAS	17.9	0.85	m_e	mb	5.2
WET	78.54	P	20:59:58.274	0.0	34.0		5.52			TAS	19.7	0.84	m_e	mb	5.2

Event 71202002 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/02	10:47:18.68			30.9400	55.2000				33.0			13		35.98	40.60	m i k e	BGR
OrigID 71202008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	71202008
Ms	4.0		BGR	71202008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BSEG	39.42		P	10:54:45.459	-0.1	105.1		8.38		TAS		34.0	0.86	m_e	mb	5.0
BUG	40.60		P	10:54:55.731	0.2	105.1		8.38		TAS		35.2	1.00	m_e	mb	5.0
CLL	37.08		P	10:54:26.299	-0.4	105.1		8.38		TAS		43.6	0.94	m_e	mb	5.2
FLT1	38.42		P	10:54:37.379	-0.2	105.1		8.38		TAS		31.2	0.87	m_e	mb	5.1
GEC2	35.98		P	10:54:17.411		105.1		8.38		TAS		45.3	0.84	m_e	mb	5.3
GOR1	38.57		P	10:54:38.533	-0.2	105.1		8.38		TAS		71.0	1.25	m_e	mb	5.2
GRA1	37.76		L	11:13:50.437						T__		295.3	19.10	a_e	Ms	4.1
KAST	39.84		P	10:54:49.845	-0.3	105.1		8.38		TAS		16.3	0.80	m_e	mb	4.7
MOX	37.74		L	11:12:33.986						T__		227.5	21.90	a_e	Ms	3.9
NRDL	39.13		P	10:54:43.958	-0.3	105.1		8.38		TAS		56.2	1.37	m_e	mb	5.0
RGN	37.95		P	10:54:33.224	0.5	105.1		8.38		TAS		150.9	0.84	m_e	mb	5.8
ROTZ	37.16		P	10:54:26.645		105.1		8.38		TAS		2.9	1.00	m_e	mb	4.0
TNS	39.62		P	10:54:47.883		105.1		8.38		TAS		29.6	0.96	m_e	mb	4.9

UBR	38.09	P	10:54:33.917	105.1	8.38	TAS	33.0	0.85	m_e	mb	5.1
WET	36.58	P	10:54:21.682	105.1	8.38	TAS	11.9	1.12	m_e	mb	4.5

Event 71202003 Near east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/02	15:11:42.58			53.2200	159.0400				33.0			17		70.09	74.15	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	71202009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	71.73		P	15:23:01.858	-0.1	19.7		6.00		TAS		14.2	1.15	m_e	mb	5.0
BRG	72.20		P	15:23:04.974	-0.2	19.7		6.00		TAS		10.8	1.07	m_e	mb	4.9
BSEG	70.09		P	15:22:52.331	0.1	19.7		6.00		TAS		26.0	1.03	m_e	mb	5.3
CLL	72.01		P	15:23:03.177	-0.0	19.7		6.00		TAS		20.5	0.83	m_e	mb	5.3
FBE	72.29		P	15:23:05.214	0.4	19.7		6.00		TAS		17.5	1.14	m_e	mb	5.1
FLT1	71.42		P	15:22:59.521	0.4	19.7		6.00		TAS		18.8	0.88	m_e	mb	5.2
GEC2	74.15		P	15:23:16.120		19.7		6.00		TAS		7.1	0.83	m_e	mb	4.7
GRA1	73.92		P	15:23:15.341		19.7		6.00		TAS		16.5	0.83	m_e	mb	5.1
GUNZ	73.04		P	15:23:09.768		19.7		6.00		TAS		7.2	0.83	m_e	mb	4.8
KAST	73.06		P	15:23:09.828	0.1	19.7		6.00		TAS		12.4	1.11	m_e	mb	4.9
MOX	72.93		P	15:23:08.989		19.7		6.00		TAS		8.0	0.93	m_e	mb	4.8
NRDL	71.50		P	15:23:00.420	-0.3	19.7		6.00		TAS		13.0	0.97	m_e	mb	5.0
PLN	72.96		P	15:23:09.169		19.7		6.00		TAS		8.0	0.95	m_e	mb	4.8
RUE	70.74		P	15:22:55.986	0.0	19.7		6.00		TAS		46.2	1.00	m_e	mb	5.6
TANN	72.96		P	15:23:09.229		19.7		6.00		TAS		6.3	1.04	m_e	mb	4.7
WERD	72.97		P	15:23:09.169		19.7		6.00		TAS		10.2	1.02	m_e	mb	4.9
WERN	73.10		P	15:23:10.127		19.7		6.00		TAS		10.0	0.88	m_e	mb	5.0

Event 71202004 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/02	16:40:56.68			71.0500	-7.9800				33.0			25		18.98	24.97	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	71202010
Ms	3.7		BGR	71202010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	20.77		P	16:45:35.546	0.7	344.8		10.31		TAS		37.0	1.00	m_e	mb	4.7

MOX	54.22	L	17:56:40.556							T__	100.0	18.70	a_e	Ms	3.9
NEUB	54.68	P	17:30:01.569	155.7	7.33					TAS	13.9	0.85	m_e	mb	5.0
NRDL	56.29	P	17:30:13.863	-0.1 155.7	7.33					TAS	43.0	1.11	m_e	mb	5.4
PLN	53.93	P	17:29:56.112	155.7	7.33					TAS	10.6	0.76	m_e	mb	4.9
RETH	56.71	P	17:30:17.020	0.0 155.7	7.33					TAS	40.2	1.34	m_e	mb	5.3
ROTZ	53.26	P	17:29:50.932	155.7	7.33					TAS	1.7	0.91	m_e	mb	4.0
TANN	53.79	P	17:29:55.283	155.7	7.33					TAS	18.5	1.46	m_e	mb	4.9
TNS	54.71	pP	17:30:05.301							T__			m_e		
WERN	53.70	P	17:29:54.524	155.7	7.33					TAS	5.5	0.95	m_e	mb	4.6
WET	52.51	P	17:29:45.614	155.7	7.33					TAS	19.2	1.45	m_e	mb	4.8
WET	52.51	pP	17:29:49.533							T__			m_e		
WLF	54.94	pP	17:30:06.356							T__			m_e		

Event 71203001 Near coast of Ecuador

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/03	11:19:07.20			-0.3900	-80.2800				26.0			22		87.98	92.92	m i ke	EMSC
	71203033																

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	71203007
Ms	5.8		BGR	71203007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	89.36		P	11:32:00.777		270.9		4.78		TAS		33.3	1.33	m_e	mb 5.4
BSEG	90.67		P	11:32:07.612	0.4	270.9		4.78		TAS		39.3	1.46	m_e	mb 5.5
BUG	88.77		P	11:31:58.591	0.3	270.9		4.78		TAS		128.4	1.78	m_e	mb 5.9
FBE	92.60		P	11:32:16.565	0.1	270.9		4.78		TAS		67.4	1.43	m_e	mb 5.9
FLT1	91.24		P	11:32:09.736	-0.0	270.9		4.78		TAS		36.7	1.48	m_e	mb 5.5
FUR	91.33		P	11:32:11.140		270.9		4.78		TAS		50.6	1.07	m_e	mb 5.8
GEC2	92.92		P	11:32:17.860		270.9		4.78		TAS		26.4	1.13	m_e	mb 5.6
GRA1	91.27		P	11:32:10.735		270.9		4.78		TAS		175.2	1.85	m_e	mb 6.1
GRA1	91.27		L	12:09:41.168						T__	4309.4	21.70	a_e	Ms 5.9	
IBBN	89.10		P	11:31:59.787	-0.2	270.9		4.78		TAS		93.0	1.64	m_e	mb 5.8
MANZ	91.84		P	11:32:13.164		270.9		4.78		TAS		12.1	1.50	m_e	mb 5.0
MOX	91.51		P	11:32:11.309	0.1	270.9		4.78		TAS				m_e	
MOX	91.51		L	12:12:37.532						T__	2719.0	20.90	a_e	Ms 5.7	
PLN	91.86		P	11:32:12.840	-0.4	270.9		4.78		TAS		33.2	1.23	m_e	mb 5.5
RETH	90.09		P	11:32:05.161	-0.5	270.9		4.78		TAS		35.0	1.33	m_e	mb 5.4
ROTZ	91.91		P	11:32:13.488		270.9		4.78		TAS		14.2	1.33	m_e	mb 5.1
STU	89.94		P	11:32:03.611		270.9		4.78		TAS		142.4	1.27	m_e	mb 6.0
TANN	92.05		P	11:32:14.217	-0.5	270.9		4.78		TAS		47.1	1.27	m_e	mb 5.7
UBBA	90.48		P	11:32:06.571	0.4	270.9		4.78		TAS		45.4	1.79	m_e	mb 5.4
UBR	90.55		P	11:32:07.173		270.9		4.78		TAS		111.8	1.35	m_e	mb 6.0
WERD	91.95		P	11:32:13.893	-0.4	270.9		4.78		TAS		31.5	1.24	m_e	mb 5.5
WERN	92.00		P	11:32:14.055	0.2	270.9		4.78		TAS		67.6	1.37	m_e	mb 5.8

WET	92.37	P	11:32:15.755	270.9	4.78	TAS	97.0	1.30	m_e	mb	6.0
WLF	87.98	P	11:31:54.704	270.9	4.78	TAS	174.8	1.31	m_e	mb	6.2

Event 71203003 Central Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/03	23:34:08.44	0.68	0.92	42.3020	13.8300	11.1	8.9	59	10.0			22	322	5.54	9.09	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
ML	4.4		BGR	71203009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	6.66		Sn	23:36:54.881	-1.0					T__				m_e	
BALST	6.66		Pn	23:35:43.810	-1.3					T__				m_e	ML 4.5
BFO	7.17		Pn	23:35:51.427	-0.6					T__				m_e	
FUR	6.13		Pn	23:35:39.165	1.3					T__				m_e	
GEC2	6.54		Sn	23:36:53.900	0.8					T__				m_e	
GEC2	6.54		Pn	23:35:43.269	-0.3					T__				m_e	ML 4.5
GUNZ	8.13		Pn	23:36:05.752	0.5					T__				m_e	
MANZ	7.78		Pn	23:36:00.720	0.2					T__				m_e	
MOX	8.48		Sn	23:37:37.823	-1.4					T__				m_e	
MOX	8.48		Pn	23:36:09.641	-0.5					T__				m_e	ML 4.6
OBER	5.69		Sn	23:36:33.151	0.3					T__				m_e	
OBER	5.69		Pn	23:35:32.889	1.1					T__				m_e	ML 4.2
PART	5.54		Sn	23:36:30.977	1.7					T__				m_e	
PART	5.54		Pn	23:35:30.657	0.9					T__				m_e	ML 4.1
PLN	8.27		Pn	23:36:07.597	0.4					T__				m_e	
PLONS	5.71		Sn	23:36:33.722	0.5					T__				m_e	
PLONS	5.71		Pn	23:35:33.399	1.3					T__				m_e	ML 4.2
ROTZ	7.55		Sn	23:37:16.653	-0.4					T__				m_e	ML 4.3
SLE	6.64		Sn	23:36:55.708	0.2					T__				m_e	
SLE	6.64		Pn	23:35:43.846	-1.0					T__				m_e	ML 4.4
SULZ	6.62		Sn	23:36:55.982	1.1					T__				m_e	
SULZ	6.62		Pn	23:35:43.844	-0.7					T__				m_e	ML 4.8
TANN	8.17		Pn	23:36:06.301	0.5					T__				m_e	
TNS	8.75		Pn	23:36:13.434	-0.4					T__				m_e	
UBR	5.99		Pn	23:35:36.075	0.1					T__				m_e	
WERD	8.22		Pn	23:36:07.098	0.6					T__				m_e	
WERN	8.05		Pn	23:36:04.705	0.5					T__				m_e	
WET	6.88		Sn	23:36:58.967	-2.0					T__				m_e	
WET	6.88		Pn	23:35:47.431	-0.7					T__				m_e	ML 4.3
WILA	6.19		Pn	23:35:38.612	-0.1					T__				m_e	
WLF	9.09		Pn	23:36:16.967	-1.6					T__				m_e	

Event 71204001 South of Kermadec Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/04	00:08:04.00			-32.6800	-178.5400				10.0				8	157.83	163.53	m i ke	EMSC
OrigID 71204033																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.6		BGR	71204007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	163.53		PKPdf	00:28:06.963						T__					m_e
BFO	163.53		PKPab	00:28:58.989		16.1		4.77		TAS					m_e
BRG	159.63		PKPdf	00:28:03.166						T__					m_e
BSEG	157.83		PKPdf	00:28:00.541	-0.2					T__					m_e
CLL	159.55		PKPab	00:28:41.519		16.1		4.77		TAS					m_e
GEC2	161.42		PKPdf	00:28:04.316						T__					m_e
GRA1	161.51		PKPdf	00:28:06.177						T__					m_e
GRA1	161.51		PKPab	00:28:50.817		16.1		4.77		TAS					m_e
GRA1	161.51		L	01:44:21.459						T__		1036.6	21.70	a_e Ms	5.6
GUNZ	160.58		PKPdf	00:28:04.438						T__					m_e
GUNZ	160.58		PKPab	00:28:46.591		16.1		4.77		TAS					m_e
KAST	160.80		PKPdf	00:28:03.886						T__					m_e
MANZ	160.99		PKPdf	00:28:03.840						T__					m_e
MOX	160.55		PKPdf	00:28:04.088						T__					m_e
MOX	160.55		L	01:42:22.760						T__		691.1	22.00	a_e Ms	5.5
PLN	160.53		PKPab	00:28:46.027		16.1		4.77		TAS					m_e
RETH	159.16		PKPdf	00:28:01.703	0.4					T__					m_e
TANN	160.50		PKPdf	00:28:03.476						T__					m_e
TNS	161.72		PKPdf	00:28:05.779						T__					m_e
WERD	160.52		PKPab	00:28:45.886		16.1		4.77		TAS					m_e
WERN	160.64		PKPab	00:28:46.591		16.1		4.77		TAS					m_e
WET	161.46		PKPdf	00:28:04.787						T__					m_e
WLF	162.67		PKPdf	00:28:06.525						T__					m_e
WLF	162.67		PKPab	00:28:54.480		16.1		4.77		TAS					m_e

Event 71205006 Eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/05	15:13:55.45			36.6870	139.8440				33.0				29	79.79	84.98	m i ke	BGR
OrigID 71205012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	71205012
Ms	4.6		BGR	71205012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	81.06		P	15:26:05.116	0.2	39.2		5.21		TAS		14.4	1.03	m_e	mb	4.9
BFO	84.98		P	15:26:25.571		39.2		5.21		TAS		35.0	1.02	m_e	mb	5.5
BRG	80.70		P	15:26:04.153	-0.1	39.2		5.21		TAS		16.4	0.97	m_e	mb	5.0
BSEG	79.79		P	15:25:58.993	-0.0	39.2		5.21		TAS		38.0	1.01	m_e	mb	5.3
CLL	80.76		P	15:26:03.475	-0.1	39.2		5.21		TAS		35.2	0.94	m_e	mb	5.4
CLZ	81.40		P	15:26:07.417	-0.2	39.2		5.21		TAS		42.7	1.05	m_e	mb	5.4
FBE	80.91		P	15:26:04.884	-0.2	39.2		5.21		TAS		33.9	0.95	m_e	mb	5.4
FLT1	80.69		P	15:26:03.039	-0.5	39.2		5.21		TAS		36.9	0.97	m_e	mb	5.4
GEC2	82.34		P	15:26:11.739		39.2		5.21		TAS		13.0	0.98	m_e	mb	5.0
GRA1	82.73		P	15:26:14.786		39.2		5.21		TAS		57.0	1.02	m_e	mb	5.7
GRA1	82.73		L	16:01:42.036						T__		353.0	18.10	a_e	Ms	4.8
GTTG	81.79		P	15:26:09.503	0.2	39.2		5.21		TAS		31.5	0.92	m_e	mb	5.4
GUNZ	81.76		P	15:26:09.189	0.6	39.2		5.21		TAS		18.8	0.97	m_e	mb	5.2
IBBN	82.03		P	15:26:10.595	0.2	39.2		5.21		TAS		36.0	0.82	m_e	mb	5.5
KAST	82.66		P	15:26:13.985	-0.2	39.2		5.21		TAS		20.9	1.05	m_e	mb	5.3
MANZ	82.14		P	15:26:11.172	-0.2	39.2		5.21		TAS		3.2	0.85	m_e	mb	4.5
MOX	81.84		P	15:26:09.354	0.2	39.2		5.21		TAS		16.2	1.02	m_e	mb	5.1
MOX	81.84		L	15:59:05.347						T__		216.3	21.00	a_e	Ms	4.5
NEUB	81.35		P	15:26:06.834	-0.2	39.2		5.21		TAS		49.6	0.94	m_e	mb	5.5
NRDL	81.00		P	15:26:05.085	-0.4	39.2		5.21		TAS		14.6	0.98	m_e	mb	5.0
PLN	81.74		P	15:26:08.803	0.2	39.2		5.21		TAS		11.9	0.99	m_e	mb	5.0
RETH	81.09		P	15:26:05.672	-0.5	39.2		5.21		TAS		33.6	1.12	m_e	mb	5.3
RJOB	83.57		P	15:26:18.888		39.2		5.21		TAS		26.3	0.95	m_e	mb	5.4
ROTZ	82.27		P	15:26:11.970	-0.4	39.2		5.21		TAS		5.2	1.09	m_e	mb	4.6
STU	84.28		P	15:26:22.120		39.2		5.21		TAS		100.1	0.85	m_e	mb	6.1
TANN	81.67		P	15:26:08.527	0.2	39.2		5.21		TAS		7.9	1.03	m_e	mb	4.8
TNS	83.43		P	15:26:17.988	-0.4	39.2		5.21		TAS		16.7	0.91	m_e	mb	5.3
UBBA	82.35		P	15:26:12.132	0.1	39.2		5.21		TAS		9.5	1.05	m_e	mb	4.9
WERD	81.70		P	15:26:08.697	0.0	39.2		5.21		TAS		16.0	1.15	m_e	mb	5.0
WERN	81.80		P	15:26:09.550	0.1	39.2		5.21		TAS		21.9	0.97	m_e	mb	5.3
WET	82.46		P	15:26:12.882		39.2		5.21		TAS		14.6	0.99	m_e	mb	5.1

Event 71206008 Northern India

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/06	15:19:50.84			29.3300	78.5370				33.0			14		52.33	55.86	m i ke	BGR
71206014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	71206014
Ms	3.9		BGR	71206014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BSEG	54.23		P	15:29:11.915	-0.1	85.7		7.32		TAS		32.8	0.77	m_e	mb	5.4

CLZ	54.29	P	15:29:12.817	0.5	85.7	7.32	TAS	42.5	0.84	m_e	mb	5.5
GEC2	52.33	P	15:28:58.639		85.7	7.32	TAS	3.8	0.67	m_e	mb	4.5
GRA1	53.89	L	15:54:52.848				T__	121.5	20.80	a_e	Ms	3.9
GTTG	54.56	P	15:29:14.795	0.1	85.7	7.32	TAS	29.6	0.82	m_e	mb	5.4
IBBN	55.86	P	15:29:24.127	-0.1	85.7	7.32	TAS	32.2	0.83	m_e	mb	5.4
MANZ	53.30	P	15:29:06.271		85.7	7.32	TAS	2.9	0.94	m_e	mb	4.2
MOX	53.58	P	15:29:07.581		85.7	7.32	TAS	24.0	1.35	m_e	mb	5.0
MOX	53.58	L	15:54:46.590				T__	107.7	20.00	a_e	Ms	3.9
NEUB	53.45	P	15:29:06.583		85.7	7.32	TAS	26.3	0.73	m_e	mb	5.3
NRDL	54.41	P	15:29:13.507	-0.2	85.7	7.32	TAS	35.6	0.81	m_e	mb	5.4
PLN	53.24	P	15:29:05.231		85.7	7.32	TAS	18.0	1.31	m_e	mb	4.8
ROTZ	53.25	P	15:29:05.498		85.7	7.32	TAS	8.3	1.50	m_e	mb	4.4
TANN	53.05	P	15:29:03.604		85.7	7.32	TAS	28.1	1.52	m_e	mb	5.0
UBR	54.82	P	15:29:16.790		85.7	7.32	TAS	9.6	0.62	m_e	mb	5.0
WERD	53.15	P	15:29:04.749		85.7	7.32	TAS	25.5	1.38	m_e	mb	5.0

Event 71206009 Kashmir-Xizang border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/06	23:28:51.12			34.5870	78.4600				33.0			29		48.54	53.67	m i ke	BGR
71206015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	71206015
Ms	4.8		BGR	71206015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	52.56		P	23:37:59.429		80.7		7.57		TAS		20.0	1.12	m_e	mb	5.0
BRG	48.54		P	23:37:29.160	0.1	80.7		7.57		TAS		50.8	0.59	m_e	mb	5.7
BSEG	50.41		P	23:37:43.500	0.0	80.7		7.57		TAS		95.1	0.82	m_e	mb	5.8
BUG	52.61		P	23:37:59.905	-0.1	80.7		7.57		TAS		75.3	1.24	m_e	mb	5.5
CLL	49.08		P	23:37:32.927	-0.1	80.7		7.57		TAS		28.1	0.77	m_e	mb	5.4
CLZ	50.64		P	23:37:45.201	-0.3	80.7		7.57		TAS		49.0	1.08	m_e	mb	5.4
FBE	48.91		P	23:37:32.320	0.1	80.7		7.57		TAS		63.9	0.73	m_e	mb	5.7
FLT1	50.05		P	23:37:40.097	-0.3	80.7		7.57		TAS		89.9	0.81	m_e	mb	5.7
FUR	50.66		P	23:37:46.052		80.7		7.57		TAS		100.8	0.83	m_e	mb	5.8
GEC2	48.96		P	23:37:32.563		80.7		7.57		TAS		27.8	1.05	m_e	mb	5.2
GRA1	50.43		L	00:15:22.497						T__		921.8	19.70	a_e	Ms	4.8
GTTG	50.93		P	23:37:47.632	-0.4	80.7		7.57		TAS		81.4	0.85	m_e	mb	5.7
GUNZ	49.62		P	23:37:37.788	-0.1	80.7		7.57		TAS		32.7	0.97	m_e	mb	5.2
IBBN	52.16		P	23:37:56.503	-0.6	80.7		7.57		TAS		93.4	1.20	m_e	mb	5.6
MANZ	49.82		P	23:37:39.498	0.6	80.7		7.57		TAS		5.0	0.69	m_e	mb	4.6
MOX	50.04		P	23:37:40.705	0.3	80.7		7.57		TAS		60.2	1.25	m_e	mb	5.4
MOX	50.04		L	00:15:24.345						T__		738.2	18.60	a_e	Ms	4.7
NEUB	49.86		P	23:37:39.124	-0.1	80.7		7.57		TAS		58.4	0.74	m_e	mb	5.6
NRDL	50.71		P	23:37:45.930	0.2	80.7		7.57		TAS		85.9	1.02	m_e	mb	5.6

PLN	49.72	P	23:37:38.274	0.5	80.7	7.57	TAS	16.1	0.71	m_e	mb	5.1
RJOB	49.73	P	23:37:38.468		80.7	7.57	TAS	16.4	0.71	m_e	mb	5.1
ROTZ	49.79	P	23:37:39.490	0.1	80.7	7.57	TAS	8.3	1.01	m_e	mb	4.6
STU	51.91	P	23:37:55.652		80.7	7.57	TAS	120.1	0.80	m_e	mb	5.9
TANN	49.53	P	23:37:36.938	0.1	80.7	7.57	TAS	17.9	0.76	m_e	mb	5.1
TNS	52.10	P	23:37:56.138	-0.5	80.7	7.57	TAS	21.5	0.97	m_e	mb	5.0
UBBA	51.02	P	23:37:47.875	-0.3	80.7	7.57	TAS	13.5	0.65	m_e	mb	5.0
UBR	51.52	P	23:37:51.881		80.7	7.57	TAS	45.2	0.92	m_e	mb	5.4
WERD	49.63	P	23:37:37.667	-0.1	80.7	7.57	TAS	24.8	0.87	m_e	mb	5.2
WERN	49.61	P	23:37:37.658	0.7	80.7	7.57	TAS	8.4	0.73	m_e	mb	4.8
WET	49.45	P	23:37:36.452		80.7	7.57	TAS	17.7	0.69	m_e	mb	5.2
WLF	53.67	P	23:38:08.291	-0.1	80.7	7.57	TAS	51.2	0.94	m_e	mb	5.5

Event 71206010 Southwestern Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/06	23:42:10.73			26.8580	63.5740				33.0	0.0		15		44.14	47.74	m i ke	BGR
	71206016																

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	71206016
Ms	4.7		BGR	71206016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	44.42		P	23:50:18.158		99.9		7.89		TAS					m_e	
CLL	45.09		P	23:50:23.409	-0.1	99.9		7.89		TAS		36.8	1.14	m_e	mb	5.2
CLZ	46.81		P	23:50:36.537	0.6	99.9		7.89		TAS		94.9	1.75	m_e	mb	5.6
FBE	44.79		P	23:50:21.346		99.9		7.89		TAS		47.5	1.09	m_e	mb	5.3
GEC2	44.14		P	23:50:15.907		99.9		7.89		TAS		187.9	1.99	m_e	mb	5.5
GRA1	45.89		L	00:15:22.506						T__		921.8	19.70	a_e	Ms	4.7
MANZ	45.38		P	23:50:26.410		99.9		7.89		TAS		27.0	2.02	m_e	mb	4.8
MOX	45.81		L	00:15:24.375						T__		738.2	18.60	a_e	Ms	4.7
PLN	45.44		P	23:50:26.326		99.9		7.89		TAS		37.7	1.68	m_e	mb	5.1
RETH	47.59		P	23:50:42.672	0.1	99.9		7.89		TAS		26.8	1.35	m_e	mb	5.2
ROTZ	45.27		P	23:50:25.097		99.9		7.89		TAS		27.7	2.15	m_e	mb	4.8
TNS	47.74		P	23:50:44.794		99.9		7.89		TAS		71.6	1.46	m_e	mb	5.6
UBBA	46.85		P	23:50:37.288		99.9		7.89		TAS		117.4	2.04	m_e	mb	5.7
UBR	46.32		P	23:50:32.891		99.9		7.89		TAS		119.2	1.70	m_e	mb	5.6
WERD	45.34		P	23:50:25.285		99.9		7.89		TAS		38.7	1.66	m_e	mb	5.1
WERN	45.27		P	23:50:24.722		99.9		7.89		TAS		68.3	1.79	m_e	mb	5.3
WET	44.72		P	23:50:20.221		99.9		7.89		TAS		121.8	2.28	m_e	mb	5.4

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/07	17:42:51.32	0.32	0.81	51.5120	16.1330	4.4	2.2	14	1.0			21	191	0.68	3.92	m i k i	BGR
71207011																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.3		BGR	71207011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	1.52		Sg	17:43:39.401	-0.2					T__				m_e	
BRG	1.52		Pg	17:43:19.077	-0.8					T__				m_e	ML 4.1
CLL	1.97		Sg	17:43:53.543	-0.3					T__				m_e	
CLL	1.97		Pn	17:43:23.927	-0.9					T__				m_e	ML 4.0
CLL	1.97		Pg	17:43:27.486	-0.9					T__				m_e	
CLZ	3.60		Sg	17:44:46.965	1.4					T__				m_e	
CLZ	3.60		Pn	17:43:47.823	1.0					T__				m_e	ML 4.3
DPC	1.17		Sg	17:43:28.141	-0.3					T__				m_e	
DPC	1.17		Pg	17:43:12.454	-0.9					T__				m_e	ML 4.4
FBE	1.85		Pn	17:43:22.272	-0.9					T__				m_e	
FBE	1.85		Pg	17:43:25.007	-1.1					T__				m_e	
FLT1	3.14		Sg	17:44:30.182	-0.8					T__				m_e	
GEC2	3.09		Sn	17:44:15.853	0.9					T__				m_e	
GEC2	3.09		Sg	17:44:28.905	-0.6					T__				m_e	
GEC2	3.09		Pn	17:43:40.580	0.6					T__				m_e	ML 4.3
GRA1	3.62		Sg	17:44:46.420	0.2					T__				m_e	
GRA1	3.62		Pn	17:43:47.934	0.8					T__				m_e	ML 4.8
GTTG	3.85		Sg	17:44:52.156	-1.4					T__				m_e	ML 4.7
KSP	0.68		Pg	17:43:03.613	-0.5					T__				m_e	ML 3.5
MANZ	2.98		Pn	17:43:38.980	0.6					T__				m_e	ML 4.3
MANZ	2.98		Pg	17:43:47.641	0.2					T__				m_e	
MORC	1.96		Pn	17:43:24.374	-0.3					T__				m_e	ML 4.4
MORC	1.96		Pg	17:43:28.361	0.2					T__				m_e	
MOX	2.98		Sg	17:44:26.728	0.9					T__				m_e	
MOX	2.98		Pn	17:43:37.872	-0.6					T__				m_e	ML 4.5
MOX	2.98		Pg	17:43:47.484	0.1					T__				m_e	
OJC	2.66		Sg	17:44:17.563	1.9					T__				m_e	
OJC	2.66		Pn	17:43:32.647	-1.5					T__				m_e	
OJC	2.66		Pg	17:43:41.347	-0.0					T__				m_e	
OKC	2.11		Pn	17:43:26.269	-0.5					T__				m_e	
OKC	2.11		Pg	17:43:31.117	0.1					T__				m_e	
ROTZ	3.05		Sg	17:44:26.777	-1.3					T__				m_e	
ROTZ	3.05		Pn	17:43:39.399	0.0					T__				m_e	ML 4.1
ROTZ	3.05		Pg	17:43:48.834	0.1					T__				m_e	
TANN	2.57		Sg	17:44:12.149	-0.7					T__				m_e	
TANN	2.57		Pn	17:43:33.352	0.5					T__				m_e	ML 4.3
TANN	2.57		Pg	17:43:40.128	0.5					T__				m_e	ML 4.3
UBBA	3.92		Sg	17:44:56.533	0.8					T__				m_e	
UBBA	3.92		Pn	17:43:52.077	0.9					T__				m_e	ML 4.4
WERD	2.64		Sg	17:44:15.846	0.6					T__				m_e	

WERD	2.64	Pg	17:43:41.443	0.4	T__	m_e	ML	4.2
WERN	2.68	Sg	17:44:18.222	2.0	T__	m_e		
WERN	2.68	Pn	17:43:34.737	0.4	T__	m_e		
WERN	2.68	Pg	17:43:41.909	0.2	T__	m_e		
WET	3.16	Pn	17:43:41.173	0.3	T__	m_e	ML	4.2
WET	3.16	Pg	17:43:49.817	-0.9	T__	m_e		

Event 71207006 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/07	23:10:00.00			-15.2700	-173.4500				10.0			7		144.02	147.00	m i ke	EMSC
71207038																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.00		PKPbc	23:29:43.560		8.0		2.57		TAS				m_e	
FBE	144.02		PKPbc	23:29:36.928	1.1	8.0		2.57		TAS				m_e	
FUR	146.97		PKPbc	23:29:43.521		8.0		2.57		TAS				m_e	
GEC2	146.01		PKPbc	23:29:40.476		8.0		2.57		TAS				m_e	
PLN	144.58		PKPbc	23:29:36.619	-0.6	8.0		2.57		TAS				m_e	
TNS	145.11		PKPbc	23:29:37.514		8.0		2.57		TAS				m_e	
WLF	145.70		PKPbc	23:29:39.938		8.0		2.57		TAS				m_e	

Event 71215002 Jawa, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/15	16:48:00.00			-7.6000	108.1500				111.0			18		98.59	103.52	m i ke	EMSC
71215034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	102.86		Pdiff	17:01:45.726						T__				m_e	
AHRW	102.86		PP	17:05:59.677		89.2		7.43		TAS				m_e	
ASSE	100.54		Pdiff	17:01:34.921	0.5					T__				m_e	
BFO	102.16		Pdiff	17:01:41.956	0.3					T__				m_e	
BSEG	100.71		Pdiff	17:01:36.083	-0.3					T__				m_e	
BUG	102.69		Pdiff	17:01:44.637	0.2					T__				m_e	
CLL	99.10		Pdiff	17:01:28.415	0.2					T__				m_e	
CLZ	100.73		Pdiff	17:01:36.083	0.2					T__				m_e	
FBE	98.87		Pdiff	17:01:27.795	0.2					T__				m_e	
FBE	98.87		PP	17:05:29.526	-0.0	89.2		7.43		TAS				m_e	

FLT1	100.19	Pdiff	17:01:32.830	-0.0				T__	m_e
FLT1	100.19	PP	17:05:39.825	0.1	89.2	7.43		TAS	m_e
FUR	100.20	Pdiff	17:01:33.324	0.0				T__	m_e
FUR	100.20	PP	17:05:39.825		89.2	7.43		TAS	m_e
GEC2	98.59	Pdiff	17:01:26.633	-0.3				T__	m_e
GEC2	98.59	PP	17:05:27.663	-0.1	89.2	7.43		TAS	m_e
GOR1	100.14	Pdiff	17:01:33.140	-0.8				T__	m_e
GOR1	100.14	PP	17:05:38.620	0.3	89.2	7.43		TAS	m_e
GRA1	100.23	Pdiff	17:01:34.224	0.1				T__	m_e
GTTG	101.00	Pdiff	17:01:37.244	-0.1				T__	m_e
GUNZ	99.51	Pdiff	17:01:30.584	-0.1				T__	m_e
GUNZ	99.51	PP	17:05:34.221	-0.5	89.2	7.43		TAS	m_e
IBBN	102.33	Pdiff	17:01:43.357	-0.5				T__	m_e
KAST	101.98	Pdiff	17:01:41.681	0.3				T__	m_e
MANZ	99.65	Pdiff	17:01:31.668	-0.3				T__	m_e
MANZ	99.65	PP	17:05:35.834	-0.4	89.2	7.43		TAS	m_e
MOX	99.97	Pdiff	17:01:32.597	0.1				T__	m_e
NEUB	99.87	Pdiff	17:01:31.900	-0.3				T__	m_e
NRDL	100.88	Pdiff	17:01:36.935	-0.3				T__	m_e
NRDL	100.88	PP	17:05:44.058		89.2	7.43		TAS	m_e
PLN	99.62	Pdiff	17:01:31.048	0.4				T__	m_e
RETH	101.33	Pdiff	17:01:38.591	-0.2				T__	m_e
RETH	101.33	PP	17:05:47.923		89.2	7.43		TAS	m_e
RGN	98.94	Pdiff	17:01:28.348	0.2				T__	m_e
RGN	98.94	PP	17:05:30.481	0.1	89.2	7.43		TAS	m_e
ROTZ	99.59	Pdiff	17:01:31.281	0.5				T__	m_e
ROTZ	99.59	PP	17:05:35.831	0.1	89.2	7.43		TAS	m_e
RUE	98.64	Pdiff	17:01:26.563	-0.1				T__	m_e
STU	101.57	Pdiff	17:01:39.641	0.2				T__	m_e
STU	101.57	PP	17:05:49.662		89.2	7.43		TAS	m_e
TANN	99.43	Pdiff	17:01:30.119	0.1				T__	m_e
TNS	102.01	Pdiff	17:01:41.988	-0.1				T__	m_e
UBBA	100.99	Pdiff	17:01:37.128	-0.1				T__	m_e
UBR	100.99	Pdiff	17:01:36.978	0.1				T__	m_e
UBR	100.99	PP	17:05:45.250		89.2	7.43		TAS	m_e
WERD	99.53	Pdiff	17:01:30.506	-0.0				T__	m_e
WERD	99.53	PP	17:05:34.319	0.3	89.2	7.43		TAS	m_e
WERN	99.48	Pdiff	17:01:30.584	0.0				T__	m_e
WERN	99.48	PP	17:05:34.400	0.3	89.2	7.43		TAS	m_e
WET	99.14	Pdiff	17:01:29.112	-0.1				T__	m_e
WET	99.14	PP	17:05:31.777	-0.3	89.2	7.43		TAS	m_e
WLF	103.52	Pdiff	17:01:48.736					T__	m_e
WLF	103.52	PP	17:06:04.394		89.2	7.43		TAS	m_e

OrigID
 2017/12/15 17:58:49.65 41.0570 142.7540 41.3 80.10 80.10 m i ke BGR
 71215010

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	71215010
Ms	5.0		BGR	71215010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	80.10		P	18:10:53.741		36.4		4.51		TAS		10.8	0.82	m_e	mb 4.8
GRA1	80.10		sP	18:11:10.507		36.9		4.48		TAS				m_e	
GRA1	80.10		L	19:08:45.990						T__		705.9	21.30	a_e	Ms 5.0

Event 71216001 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/16	00:57:02.85		47.9210	149.1260					33.0			24		72.70	76.20	m i ke	BGR

OrigID
 71216007

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	71216007
Ms	4.5		BGR	71216007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	74.33		P	01:08:35.610	-0.1	27.6		5.71		TAS		8.5	1.24	m_e	mb 4.6
BSEG	72.70		P	01:08:26.119	0.1	27.6		5.71		TAS		16.1	1.18	m_e	mb 5.0
BUG	75.76		P	01:08:43.296	0.2	27.6		5.71		TAS		22.3	1.19	m_e	mb 5.2
CLL	74.24		P	01:08:34.599	-0.0	27.6		5.71		TAS		37.1	1.24	m_e	mb 5.3
CLZ	74.54		P	01:08:36.920	-0.2	27.6		5.71		TAS		28.5	1.24	m_e	mb 5.2
FBE	74.47		P	01:08:36.287	-0.1	27.6		5.71		TAS		15.3	1.09	m_e	mb 4.9
FLT1	73.86		P	01:08:32.188	-0.3	27.6		5.71		TAS		25.1	1.24	m_e	mb 5.1
GOR1	73.25		P	01:08:29.712	0.0	27.6		5.71		TAS		39.0	1.47	m_e	mb 5.3
GRA1	76.20		P	01:08:46.333		27.6		5.71		TAS		16.0	0.96	m_e	mb 5.1
GRA1	76.20		L	01:49:29.511						T__		300.8	19.50	a_e	Ms 4.6
GTTG	74.92		P	01:08:38.929	0.0	27.6		5.71		TAS		28.8	1.23	m_e	mb 5.2
GUNZ	75.27		P	01:08:40.821		27.6		5.71		TAS		11.2	1.31	m_e	mb 4.7
KAST	75.66		P	01:08:43.050	-0.1	27.6		5.71		TAS		22.6	1.31	m_e	mb 5.1
MANZ	75.67		P	01:08:42.938		27.6		5.71		TAS		5.2	1.41	m_e	mb 4.5
MOX	75.24		P	01:08:40.561	-0.0	27.6		5.71		TAS		19.0	1.38	m_e	mb 4.9
MOX	75.24		L	01:46:06.279						T__		220.2	20.30	a_e	Ms 4.5
NEUB	74.71		P	01:08:37.434	0.1	27.6		5.71		TAS		24.0	1.10	m_e	mb 5.1
NRDL	74.03		P	01:08:33.734	0.3	27.6		5.71		TAS		11.0	1.09	m_e	mb 4.8
PLN	75.21		P	01:08:40.584	0.2	27.6		5.71		TAS		11.0	1.32	m_e	mb 4.7
RETH	74.02		P	01:08:33.733	-0.6	27.6		5.71		TAS		24.8	1.27	m_e	mb 5.1
ROTZ	75.83		P	01:08:44.216		27.6		5.71		TAS		2.1	1.09	m_e	mb 4.2
TANN	75.18		P	01:08:40.225	0.2	27.6		5.71		TAS		23.3	1.68	m_e	mb 4.9

UBBA	75.56	P	01:08:42.432	-0.0	27.6	5.71	TAS	16.4	1.26	m_e	mb	5.0
WERD	75.20	P	01:08:40.307	0.2	27.6	5.71	TAS	11.9	1.35	m_e	mb	4.7
WERN	75.32	P	01:08:41.111		27.6	5.71	TAS	8.3	1.04	m_e	mb	4.7
WET	76.17	P	01:08:46.205		27.6	5.71	TAS	32.4	1.53	m_e	mb	5.2

Event 71216002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/16	11:22:23.72			-18.3100	-176.9400				400.0			32		144.00	150.15	m i ke	BGR
	71216008																

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.68		PKPbc	11:41:21.640	-0.3	13.1		3.03		TAS				m_e	
ASSE	145.72		PKPbc	11:41:15.187	0.4	13.1		3.03		TAS				m_e	
BFO	149.75		PKPbc	11:41:26.886		13.1		3.03		TAS				a_e	
BFO	149.75		PKPab	11:41:30.954						T__				m_e	
BSEG	144.00		PKPbc	11:41:08.936	-0.3	13.1		3.03		TAS				a_e	
BUG	146.78		PKPbc	11:41:18.593	0.1	13.1		3.03		TAS				m_e	
CLL	146.14		PKPbc	11:41:16.486	0.0	13.1		3.03		TAS				a_e	
CLZ	146.05		PKPbc	11:41:16.586	0.4	13.1		3.03		TAS				a_e	
CLZ	146.05		PKPdf	11:41:20.250						T__				m_e	
FBE	146.45		PKPbc	11:41:18.059	0.1	13.1		3.03		TAS				m_e	
FLT1	145.45		PKPbc	11:41:13.871	-0.2	13.1		3.03		TAS				m_e	
FLT1	145.45		PKPdf	11:41:19.674						T__				m_e	
FUR	149.48		PKPbc	11:41:26.186		13.1		3.03		TAS				a_e	
FUR	149.48		PKPab	11:41:30.117						T__				m_e	
GEC2	148.34		PKPbc	11:41:23.186	-0.9	13.1		3.03		TAS				a_e	
GRA1	148.01		PKPbc	11:41:22.486	-0.5	13.1		3.03		TAS				a_e	
GTTG	146.39		PKPbc	11:41:17.686	0.2	13.1		3.03		TAS				m_e	
GUNZ	147.17		PKPbc	11:41:19.986	0.4	13.1		3.03		TAS				a_e	
IBBN	145.87		PKPbc	11:41:15.886	0.1	13.1		3.03		TAS				a_e	
KAST	146.91		PKPbc	11:41:19.086	0.2	13.1		3.03		TAS				a_e	
MANZ	147.57		PKPbc	11:41:21.186	-0.1	13.1		3.03		TAS				a_e	
MOX	147.03		PKPbc	11:41:19.436	0.2	13.1		3.03		TAS				a_e	
NEUB	146.47		PKPbc	11:41:17.636	-0.0	13.1		3.03		TAS				a_e	
NRDL	145.44		PKPbc	11:41:14.086	0.3	13.1		3.03		TAS				m_e	
NRDL	145.44		PKPdf	11:41:20.045						T__				m_e	
PLN	147.08		PKPbc	11:41:19.586	0.2	13.1		3.03		TAS				a_e	
RETH	145.29		PKPbc	11:41:13.786	0.1	13.1		3.03		TAS				a_e	
RETH	145.29		PKPdf	11:41:19.723						T__				m_e	
ROTZ	147.77		PKPbc	11:41:22.083	0.4	13.1		3.03		TAS				m_e	
STU	149.21		PKPbc	11:41:25.792		13.1		3.03		TAS				m_e	
TANN	147.10		PKPbc	11:41:19.786	0.5	13.1		3.03		TAS				m_e	
TNS	147.87		PKPbc	11:41:22.153	-0.0	13.1		3.03		TAS				m_e	

UBBA	147.10	PKPbc	11:41:19.386	0.3	13.1	3.03	TAS	a_e
UBR	150.15	PKPbc	11:41:27.736		13.1	3.03	TAS	m_e
UBR	150.15	PKPab	11:41:32.533				T__	m_e
WERD	147.09	PKPbc	11:41:19.636	0.3	13.1	3.03	TAS	a_e
WERN	147.24	PKPbc	11:41:20.236	0.2	13.1	3.03	TAS	a_e
WET	148.23	PKPbc	11:41:23.003	-0.6	13.1	3.03	TAS	m_e
WLF	148.62	PKPbc	11:41:24.686		13.1	3.03	TAS	a_e

Event 71216003 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/16	14:37:58.36			-0.2810	-26.9310				32.0					59.54	59.54	m i ke	BGR
71216009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	71216009
Ms	4.4		BGR	71216009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	59.54		P	14:47:59.952		221.2		7.04		TAS		34.4	1.60	m_e mb	5.1
GRA1	59.54		pP	14:48:08.753		222.0		7.06		TAS				m_e	
GRA1	59.54		L	15:11:13.055						T__		279.5	19.70	a_e Ms	4.4

Event 71217001 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/17	05:20:42.36			45.8680	152.7640				33.0					79.13	79.13	m i ke	BGR
71217007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	71217007
Ms	4.1		BGR	71217007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.13		P	05:32:42.181		24.3		4.66		TAS		23.4	1.79	m_e mb	4.9
GRA1	79.13		L	06:10:31.677						T__		82.7	19.00	a_e Ms	4.1

Event 71218001 Southeast of Loyalty Islands

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

2017/12/18 16:25:28.64 -21.2300 170.3600 23.4 0.5 19 145.00 146.87 m i ke BGR
71218007

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.37		PKPbc	16:45:03.949	-0.0	36.7		3.10		TAS					a_e
ASSE	145.37		pPKPbc	16:45:11.095	-0.2	37.5		3.48		TAS					m_e
CLL	145.16		PKPbc	16:45:03.058	0.1	36.7		3.10		TAS					m_e
CLL	145.16		pPKPbc	16:45:09.967		37.5		3.48		TAS					m_e
CLZ	145.71		PKPbc	16:45:05.299	0.1	36.7		3.10		TAS					a_e
CLZ	145.71		pPKPbc	16:45:12.383	0.0	37.5		3.48		TAS					m_e
FBE	145.32		PKPbc	16:45:03.960	0.0	36.7		3.10		TAS					m_e
FBE	145.32		pPKPbc	16:45:10.839		37.5		3.48		TAS					m_e
FLT1	145.00		PKPbc	16:45:02.513	0.2	36.7		3.10		TAS					m_e
FLT1	145.00		pPKPbc	16:45:09.455	-0.2	37.5		3.48		TAS					m_e
GEC2	146.74		PKPbc	16:45:08.091		36.7		3.10		TAS					m_e
GUNZ	146.16		PKPbc	16:45:06.449		36.7		3.10		TAS					a_e
GUNZ	146.16		pPKPbc	16:45:13.577		37.5		3.48		TAS					m_e
IBBN	146.18		PKPbc	16:45:06.564	0.0	36.7		3.10		TAS					m_e
MANZ	146.54		PKPbc	16:45:07.699		36.7		3.10		TAS					a_e
MOX	146.22		PKPbc	16:45:06.516		36.7		3.10		TAS					m_e
NEUB	145.72		PKPbc	16:45:04.999	0.1	36.7		3.10		TAS					a_e
NEUB	145.72		pPKPbc	16:45:12.147		37.5		3.48		TAS					m_e
NRDL	145.26		PKPbc	16:45:03.634	0.3	36.7		3.10		TAS					m_e
NRDL	145.26		pPKPbc	16:45:10.631	-0.1	37.5		3.48		TAS					m_e
PLN	146.13		PKPbc	16:45:06.399		36.7		3.10		TAS					a_e
PLN	146.13		pPKPbc	16:45:13.301		37.5		3.48		TAS					m_e
RETH	145.30		PKPbc	16:45:03.766	0.0	36.7		3.10		TAS					m_e
RETH	145.30		pPKPbc	16:45:10.723	0.3	37.5		3.48		TAS					m_e
ROTZ	146.68		PKPbc	16:45:07.999		36.7		3.10		TAS					a_e
TANN	146.07		PKPbc	16:45:06.249		36.7		3.10		TAS					m_e
WERD	146.10		PKPbc	16:45:06.199		36.7		3.10		TAS					a_e
WERD	146.10		pPKPbc	16:45:13.198		37.5		3.48		TAS					m_e
WERN	146.20		PKPbc	16:45:06.649		36.7		3.10		TAS					a_e
WERN	146.20		pPKPbc	16:45:13.777		37.5		3.48		TAS					m_e
WET	146.87		PKPbc	16:45:08.550		36.7		3.10		TAS					m_e

Event 71218003 Southeast of Shikoku, Japan

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2017/12/18 23:28:29.86 31.4900 132.9400 9.4 0.5 29 81.55 86.41 m i ke BGR
71218009

Magnitude Err Nsta Author OrigID
mb 5.1 BGR 71218009

2017/12/19 05:35:30.10 -21.8300 -114.3800 10.0 129.23 129.23 m i ke EMSC
71219034

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 129.23 PKPdf 05:54:38.821 282.8 1.88 TAS m_e

Event 71219007 Eastern Xizang-India border region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2017/12/19 17:40:58.20 29.8300 94.7300 33.0 30 62.25 67.03 m i ke BGR
71219013

Magnitude Err Nsta Author OrigID

mb 5.2 BGR 71219013
Ms 4.3 BGR 71219013

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
ASSE 63.57 P 17:51:25.516 -0.1 74.6 6.55 TAS 7.9 1.06 m_e mb 4.9
BFO 66.11 P 17:51:42.148 74.6 6.55 TAS 26.0 1.48 m_e mb 5.2
BSEG 63.31 P 17:51:24.575 0.2 74.6 6.55 TAS 26.1 1.10 m_e mb 5.3
BUG 65.79 P 17:51:40.418 -0.1 74.6 6.55 TAS 27.4 1.16 m_e mb 5.4
CLL 62.37 P 17:51:17.499 -0.2 74.6 6.55 TAS 10.5 1.20 m_e mb 4.9
CLZ 63.82 P 17:51:27.672 -0.6 74.6 6.55 TAS 35.2 1.22 m_e mb 5.5
FBE 62.25 P 17:51:17.287 -0.2 74.6 6.55 TAS 29.0 1.52 m_e mb 5.3
FLT1 63.18 P 17:51:22.509 0.1 74.6 6.55 TAS 32.3 1.43 m_e mb 5.3
FUR 64.28 P 17:51:30.967 74.6 6.55 TAS 51.9 1.27 m_e mb 5.6
GEC2 62.54 P 17:51:19.324 74.6 6.55 TAS 41.1 1.58 m_e mb 5.3
GOR1 62.97 P 17:51:22.286 0.4 74.6 6.55 TAS 36.1 1.20 m_e mb 5.4
GRA1 63.89 P 17:51:28.498 74.6 6.55 TAS 38.0 1.38 m_e mb 5.4
GRA1 63.89 L 18:21:20.704 T__ 252.5 18.60 a_e Ms 4.4
GTTG 64.15 P 17:51:29.832 -0.1 74.6 6.55 TAS 20.7 1.12 m_e mb 5.3
GUNZ 63.02 P 17:51:22.312 0.5 74.6 6.55 TAS 24.7 1.40 m_e mb 5.1
IBBN 65.24 P 17:51:36.804 0.1 74.6 6.55 TAS 41.8 1.46 m_e mb 5.5
KAST 65.18 P 17:51:36.418 -0.1 74.6 6.55 TAS 19.2 1.47 m_e mb 5.1
MANZ 63.26 P 17:51:24.167 -0.4 74.6 6.55 TAS 4.2 1.28 m_e mb 4.4
MOX 63.39 P 17:51:24.705 -0.0 74.6 6.55 TAS 16.8 1.37 m_e mb 5.0
MOX 63.39 L 18:24:25.996 T__ 115.2 18.10 a_e Ms 4.1
NRDL 63.81 P 17:51:27.818 -0.9 74.6 6.55 TAS 49.6 1.30 m_e mb 5.6
PLN 63.09 P 17:51:22.700 0.3 74.6 6.55 TAS 10.0 1.19 m_e mb 4.8
RETH 64.18 P 17:51:30.040 -0.0 74.6 6.55 TAS 7.3 1.13 m_e mb 4.8
ROTZ 63.25 P 17:51:24.359 0.5 74.6 6.55 TAS 9.3 1.35 m_e mb 4.7
TANN 62.93 P 17:51:21.645 0.3 74.6 6.55 TAS 18.0 1.30 m_e mb 5.0
TNS 65.45 P 17:51:38.241 0.2 74.6 6.55 TAS 22.7 1.24 m_e mb 5.3
UBBA 64.33 P 17:51:30.745 -0.1 74.6 6.55 TAS 21.6 1.58 m_e mb 5.1

UBR	65.18	P	17:51:35.855		74.6	6.55	TAS	52.9	1.80	m_e mb	5.5
WERD	63.01	P	17:51:22.090	0.5	74.6	6.55	TAS	22.3	1.53	m_e mb	5.1
WERN	63.01	P	17:51:22.295	0.2	74.6	6.55	TAS	15.7	1.30	m_e mb	5.0
WET	62.99	P	17:51:22.340		74.6	6.55	TAS	30.2	1.64	m_e mb	5.2
WLF	67.03	P	17:51:48.969	-0.4	74.6	6.55	TAS	66.3	1.24	m_e mb	5.7

Event 71219008 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/19	22:52:57.22			-20.6330	-173.1020				33.0			9		146.65	152.89	m i ke	BGR
71219014																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.0		BGR	71219014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	150.15		PKPbc	23:12:44.588	0.3	8.3		2.49		TAS				a_e	
AHRW	150.15		PKPab	23:12:50.799		9.6		4.12		TAS				m_e	
ASSE	148.43		PKPbc	23:12:39.788	0.2	8.3		2.49		TAS				a_e	
BFO	152.34		PKPbc	23:12:49.265		8.3		2.49		TAS				m_e	
BFO	152.34		PKPab	23:12:59.101		9.6		4.12		TAS				m_e	
BSEG	146.65		PKPbc	23:12:34.888	0.1	8.3		2.49		TAS				a_e	
BUG	149.25		PKPbc	23:12:41.838	0.1	8.3		2.49		TAS				a_e	
CLL	149.01		PKPbc	23:12:41.138	0.1	8.3		2.49		TAS				a_e	
CLZ	148.73		PKPbc	23:12:40.788	-0.2	8.3		2.49		TAS				a_e	
FBE	149.35		PKPbc	23:12:42.438	0.1	8.3		2.49		TAS				a_e	
FBE	149.35		PKPab	23:12:46.568		9.6		4.12		TAS				m_e	
FLT1	148.18		PKPbc	23:12:38.788	0.2	8.3		2.49		TAS				a_e	
FLT1	148.18		PKPab	23:12:41.535	-0.1	9.6		4.12		TAS				m_e	
FUR	152.31		PKPbc	23:12:49.038		8.3		2.49		TAS				a_e	
GEC2	151.33		PKPbc	23:12:46.838	-0.4	8.3		2.49		TAS				a_e	
GOR1	147.52		PKPbc	23:12:37.488	-0.1	8.3		2.49		TAS				a_e	
GRA1	150.80		PKPbc	23:12:46.088	-0.1	8.3		2.49		TAS				a_e	
GRA1	150.80		L	00:19:03.282						T__		243.6	20.60	a_e Ms	5.0
GTTG	149.05		PKPbc	23:12:41.538	-0.1	8.3		2.49		TAS				a_e	
GUNZ	150.02		PKPbc	23:12:43.988	0.2	8.3		2.49		TAS				a_e	
IBBN	148.38		PKPbc	23:12:39.788	0.0	8.3		2.49		TAS				a_e	
KAST	149.47		PKPbc	23:12:42.588	0.3	8.3		2.49		TAS				a_e	
MANZ	150.42		PKPbc	23:12:44.988	0.4	8.3		2.49		TAS				a_e	
MANZ	150.42		PKPab	23:12:51.207		9.6		4.12		TAS				m_e	
MOX	149.82		PKPbc	23:12:43.388	0.1	8.3		2.49		TAS				m_e	
MOX	149.82		L	00:33:05.798						T__		216.6	19.20	a_e Ms	5.0
NEUB	149.26		PKPbc	23:12:41.938	0.1	8.3		2.49		TAS				a_e	
NRDL	148.10		PKPbc	23:12:38.888	-0.1	8.3		2.49		TAS				a_e	
NRDL	148.10		PKPab	23:12:41.631	-0.2	9.6		4.12		TAS				m_e	
PLN	149.92		PKPbc	23:12:43.638	0.2	8.3		2.49		TAS				a_e	

RETH	147.90	PKPbc	23:12:38.588	-0.6	8.3	2.49	TAS	a_e
ROTZ	150.62	PKPbc	23:12:45.388	-0.0	8.3	2.49	TAS	a_e
ROTZ	150.62	PKPab	23:12:51.602		9.6	4.12	TAS	m_e
RUE	147.77	PKPbc	23:12:37.588	-0.4	8.3	2.49	TAS	a_e
STU	151.87	PKPbc	23:12:48.288	-0.7	8.3	2.49	TAS	a_e
TANN	149.96	PKPbc	23:12:43.888	0.3	8.3	2.49	TAS	a_e
TANN	149.96	PKPab	23:12:48.974		9.6	4.12	TAS	m_e
TNS	150.45	PKPbc	23:12:45.188	0.3	8.3	2.49	TAS	a_e
TNS	150.45	PKPab	23:12:51.255		9.6	4.12	TAS	m_e
UBBA	149.78	PKPbc	23:12:43.238	0.1	8.3	2.49	TAS	a_e
UBR	152.89	PKPbc	23:12:50.188		8.3	2.49	TAS	a_e
WERD	149.94	PKPbc	23:12:43.688	0.4	8.3	2.49	TAS	a_e
WERN	150.09	PKPbc	23:12:44.288	0.1	8.3	2.49	TAS	a_e
WET	151.15	PKPbc	23:12:46.588	-0.4	8.3	2.49	TAS	a_e
WLF	151.03	PKPbc	23:12:46.938	-0.3	8.3	2.49	TAS	a_e

Event 71220001 Crete, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/20	04:18:22.61			34.6420	23.7910				33.0			29		16.04	21.50	m i ke	BGR
71220007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	71220007
Ms	3.9		BGR	71220007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	20.02		P	04:22:53.646	-0.3	143.8		11.03		TAS		14.7	0.62	m_e	mb 4.4
BFO	17.87		P	04:22:27.855		143.8		11.03		TAS		14.2	1.19	m_e	mb 4.0
BSEG	21.50		P	04:23:07.907	-0.4	143.8		11.03		TAS		36.9	0.83	m_e	mb 4.7
CLL	18.40		P	04:22:35.349	0.7	143.8		11.03		TAS		34.5	0.60	m_e	mb 4.7
CLZ	19.72		P	04:22:49.724	1.0	143.8		11.03		TAS		11.5	0.73	m_e	mb 4.2
FBE	17.95		P	04:22:30.894	0.0	143.8		11.03		TAS		40.3	0.65	m_e	mb 4.7
FLT1	19.84		P	04:22:50.192	-0.4	143.8		11.03		TAS		14.7	0.58	m_e	mb 4.4
GEC2	16.04		P	04:22:09.667		143.8		11.03		TAS		33.0	0.64	a_e	mb 4.6
GRA1	17.65		P	04:22:27.105		143.8		11.03		TAS		99.4	1.27	m_e	mb 4.8
GRA1	17.65		L	04:31:05.763						T_		632.3	18.70	a_e	Ms 3.9
GTTG	19.62		P	04:22:49.299	-0.6	143.8		11.03		TAS		13.7	0.77	m_e	mb 4.3
GUNZ	17.80		P	04:22:28.967	-0.3	143.8		11.03		TAS		27.2	0.72	m_e	mb 4.5
KAST	19.95		P	04:22:52.452	-0.1	143.8		11.03		TAS		11.1	0.66	m_e	mb 4.2
MANZ	17.57		P	04:22:26.130	-0.5	143.8		11.03		TAS		8.2	0.71	m_e	mb 4.0
MOX	18.29		P	04:22:33.300	-0.2	143.8		11.03		TAS		13.9	0.77	m_e	mb 4.2
MOX	18.29		L	04:31:19.467						T_		798.8	21.70	a_e	Ms 4.0
NEUB	18.70		P	04:22:39.284	0.1	143.8		11.03		TAS		34.4	0.73	m_e	mb 4.7
NRDL	20.35		P	04:22:56.519	-0.5	143.8		11.03		TAS		31.2	1.24	m_e	mb 4.4
PLN	17.97		P	04:22:30.653	-0.1	143.8		11.03		TAS		11.4	0.79	m_e	mb 4.1

RETH	20.81	P	04:23:01.847	-0.8	143.8	11.03	TAS	25.3	0.75	m_e	mb	4.6
RGN	21.21	P	04:23:04.956	1.9	143.8	11.03	TAS	192.0	0.61	m_e	mb	5.6
ROTZ	17.35	P	04:22:23.994	0.5	143.8	11.03	TAS	6.3	0.72	m_e	mb	3.8
STU	17.79	P	04:22:28.678		143.8	11.03	TAS	39.1	0.70	m_e	mb	4.6
TANN	17.80	P	04:22:28.894	-0.5	143.8	11.03	TAS	14.7	0.77	m_e	mb	4.2
TNS	19.19	P	04:22:43.944	0.4	143.8	11.03	TAS	19.7	0.62	m_e	mb	4.5
UBBA	19.03	P	04:22:42.126	-0.2	143.8	11.03	TAS	11.2	0.73	m_e	mb	4.2
UBR	16.57	P	04:22:15.134		143.8	11.03	TAS	28.3	0.81	m_e	mb	4.4
WERD	17.88	P	04:22:29.914	1.5	143.8	11.03	TAS	21.1	0.74	m_e	mb	4.4
WERN	17.72	P	04:22:27.895	0.1	143.8	11.03	TAS	17.6	0.70	m_e	mb	4.3
WET	16.59	P	04:22:15.421		143.8	11.03	TAS	34.0	0.59	m_e	mb	4.7
WLF	19.83	P	04:22:51.226		143.8	11.03	TAS	35.9	0.87	m_e	mb	4.6

Event 71220004 Southeast of Shikoku, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/20	13:40:55.11			31.4000	133.3500				16.4	0.7		34		81.81	86.67	m i ke	BGR
71220010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	71220010
MBB	6.3		BGR	71220010
Ms	5.4		BGR	71220010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	85.62		P	13:53:33.461	0.1	46.7		5.07		TAS		83.3	1.20	a_e	MBB 6.1
AHRW	85.62		pP	13:53:38.131	0.0	46.8		5.05		TAS				m_e	
ASSE	82.90		P	13:53:19.261	0.0	46.7		5.07		TAS		126.2	1.68	a_e	MBB 6.2
ASSE	82.90		pP	13:53:23.941	0.1	46.8		5.05		TAS				m_e	
BFO	86.64		P	13:53:37.661		46.7		5.07		TAS		127.8	1.55	a_e	MBB 6.2
BFO	86.64		pP	13:53:42.334		46.8		5.05		TAS				m_e	
BSEG	81.81		P	13:53:13.461	-0.5	46.7		5.07		TAS		76.1	1.00	a_e	mb 5.8
BSEG	81.81		pP	13:53:18.191	-0.4	46.8		5.05		TAS				m_e	
BUG	84.89		P	13:53:29.061	0.5	46.7		5.07		TAS		87.8	1.25	a_e	MBB 6.2
BUG	84.89		pP	13:53:33.800	0.4	46.8		5.05		TAS				m_e	
CLL	82.39		P	13:53:16.161	0.1	46.7		5.07		TAS		100.8	0.89	a_e	MBB 6.2
CLL	82.39		pP	13:53:21.064	-0.1	46.8		5.05		TAS				m_e	
CLZ	83.23		P	13:53:21.261	0.1	46.7		5.07		TAS		130.4	1.03	a_e	MBB 6.5
CLZ	83.23		pP	13:53:26.204	0.1	46.8		5.05		TAS				m_e	
FBE	82.48		P	13:53:17.211	0.0	46.7		5.07		TAS		83.6	1.01	a_e	MBB 6.4
FBE	82.48		pP	13:53:21.841	-0.1	46.8		5.05		TAS				m_e	
FLT1	82.51		P	13:53:16.661	-0.1	46.7		5.07		TAS		85.3	0.95	a_e	MBB 6.3
FLT1	82.51		pP	13:53:21.389	0.0	46.8		5.05		TAS				m_e	
FUR	85.35		P	13:53:31.811	-0.5	46.7		5.07		TAS		85.4	0.88	a_e	MBB 6.6
FUR	85.35		pP	13:53:36.642	-0.6	46.8		5.05		TAS				m_e	
GEC2	83.70		P	13:53:22.961	-0.1	46.7		5.07		TAS		50.1	1.06	a_e	MBB 6.1

GEC2	83.70	pP	13:53:27.617	-0.0	46.8	5.05	TAS			m_e		
GOR1	82.03	P	13:53:15.011	0.0	46.7	5.07	TAS	155.0	1.27	a_e mb		6.0
GOR1	82.03	pP	13:53:19.702	-0.1	46.8	5.05	TAS			m_e		
GRA1	84.32	P	13:53:26.961	0.1	46.7	5.07	TAS	605.0	1.73	a_e MBB		6.7
GRA1	84.32	pP	13:53:31.743	0.1	46.8	5.05	TAS			m_e		
GRA1	84.32	L	14:33:24.062				T__	2229.1	21.90	a_e Ms		5.5
GTTG	83.62	P	13:53:23.061	0.1	46.7	5.07	TAS	95.3	0.99	a_e MBB		6.4
GTTG	83.62	pP	13:53:27.894	0.1	46.8	5.05	TAS			m_e		
GUNZ	83.34	P	13:53:21.561	-0.3	46.7	5.07	TAS	86.9	1.20	a_e MBB		6.3
GUNZ	83.34	pP	13:53:26.319	-0.4	46.8	5.05	TAS			m_e		
IBBN	84.05	P	13:53:24.911	-0.2	46.7	5.07	TAS	137.7	1.12	a_e MBB		6.4
IBBN	84.05	pP	13:53:29.800	-0.2	46.8	5.05	TAS			m_e		
KAST	84.55	P	13:53:27.711	0.2	46.7	5.07	TAS	63.5	1.12	a_e MBB		6.2
KAST	84.55	pP	13:53:32.595	0.3	46.8	5.05	TAS			m_e		
MANZ	83.70	P	13:53:23.411	0.2	46.7	5.07	TAS	21.4	1.09	a_e MBB		5.7
MANZ	83.70	pP	13:53:28.235	0.1	46.8	5.05	TAS			m_e		
MOX	83.49	P	13:53:22.311	0.4	46.7	5.07	TAS	96.0	1.23	a_e MBB		6.3
MOX	83.49	pP	13:53:27.127	0.3	46.8	5.05	TAS			m_e		
MOX	83.49	L	14:35:22.513				T__	1148.2	21.70	a_e Ms		5.2
NEUB	83.04	P	13:53:19.861	-0.1	46.7	5.07	TAS	163.8	1.06	a_e MBB		6.6
NEUB	83.04	pP	13:53:24.771	-0.0	46.8	5.05	TAS			m_e		
NRDL	82.90	P	13:53:19.361	0.3	46.7	5.07	TAS	61.6	1.20	a_e MBB		6.3
NRDL	82.90	pP	13:53:23.930	0.5	46.8	5.05	TAS			m_e		
PLN	83.34	P	13:53:21.511	0.2	46.7	5.07	TAS	85.6	1.22	a_e MBB		6.3
PLN	83.34	pP	13:53:26.303	0.2	46.8	5.05	TAS			m_e		
RETH	83.05	P	13:53:20.011	0.0	46.7	5.07	TAS	72.9	1.16	a_e MBB		6.3
RETH	83.05	pP	13:53:24.832	0.1	46.8	5.05	TAS			m_e		
RJOB	84.89	P	13:53:29.511	-0.3	46.7	5.07	TAS	81.1	1.11	a_e MBB		6.3
RJOB	84.89	pP	13:53:34.062	-0.3	46.8	5.05	TAS			m_e		
ROTZ	83.80	P	13:53:24.211	0.5	46.7	5.07	TAS	29.6	1.16	a_e MBB		5.8
ROTZ	83.80	pP	13:53:28.848	0.5	46.8	5.05	TAS			m_e		
STU	85.92	P	13:53:34.211		46.7	5.07	TAS	300.0	1.29	a_e MBB		6.6
STU	85.92	pP	13:53:39.021		46.8	5.05	TAS			m_e		
TANN	83.25	P	13:53:21.061	0.1	46.7	5.07	TAS	91.4	1.33	a_e MBB		6.2
TANN	83.25	pP	13:53:25.838	0.2	46.8	5.05	TAS			m_e		
TNS	85.24	P	13:53:31.161	-0.3	46.7	5.07	TAS	80.8	1.11	a_e MBB		6.3
TNS	85.24	pP	13:53:35.876	-0.4	46.8	5.05	TAS			m_e		
UBBA	84.11	P	13:53:25.561	0.2	46.7	5.07	TAS	140.4	1.44	a_e MBB		6.3
UBBA	84.11	pP	13:53:30.194	0.0	46.8	5.05	TAS			m_e		
UBR	86.25	P	13:53:35.911		46.7	5.07	TAS	153.0	1.80	a_e MBB		6.3
UBR	86.25	pP	13:53:40.555		46.8	5.05	TAS			m_e		
WERD	83.30	P	13:53:21.211	0.1	46.7	5.07	TAS	88.5	1.24	a_e MBB		6.2
WERD	83.30	pP	13:53:25.995	0.1	46.8	5.05	TAS			m_e		
WERN	83.37	P	13:53:21.761	0.1	46.7	5.07	TAS	154.9	1.34	m_e MBB		6.3
WERN	83.37	pP	13:53:26.570	0.2	46.8	5.05	TAS			m_e		
WET	83.90	P	13:53:24.411	0.1	46.7	5.07	TAS	65.1	1.20	a_e MBB		6.3
WET	83.90	pP	13:53:29.173	0.2	46.8	5.05	TAS			m_e		
WLF	86.67	P	13:53:38.361		46.7	5.07	TAS	90.2	1.25	a_e MBB		6.2
WLF	86.67	pP	13:53:43.087		46.8	5.05	TAS			m_e		

Event 71220005 Southeast of Shikoku, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/20	14:45:03.13			31.6600	133.3000				30.7	1.0		28		82.15	86.42	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	71220011
Ms	5.1		BGR	71220011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	85.38		pP	14:57:47.345	0.1	46.6		5.16		TAS				m_e	
ASSE	82.66		P	14:57:24.031	0.1	46.7		5.07		TAS		6.4	0.85	a_e mb	4.9
ASSE	82.66		pP	14:57:32.666	-0.0	46.6		5.16		TAS				m_e	
BFO	86.40		P	14:57:42.431		46.7		5.07		TAS		17.5	1.22	a_e mb	5.1
BUG	84.64		P	14:57:33.831	0.1	46.7		5.07		TAS		22.8	1.14	a_e mb	5.3
BUG	84.64		pP	14:57:42.839	-0.1	46.6		5.16		TAS				m_e	
CLL	82.15		P	14:57:20.981	0.1	46.7		5.07		TAS		29.1	0.78	a_e mb	5.5
CLL	82.15		pP	14:57:29.967	0.4	46.6		5.16		TAS				m_e	
CLZ	82.99		P	14:57:26.081	-0.1	46.7		5.07		TAS		32.3	0.97	a_e mb	5.5
CLZ	82.99		pP	14:57:35.241	0.0	46.6		5.16		TAS				m_e	
FBE	82.24		P	14:57:21.981	0.0	46.7		5.07		TAS		22.0	0.93	a_e mb	5.3
FBE	82.24		pP	14:57:31.070	-0.1	46.6		5.16		TAS				m_e	
FLT1	82.27		P	14:57:21.481	-0.5	46.7		5.07		TAS		24.9	0.86	a_e mb	5.4
FLT1	82.27		pP	14:57:30.551	-0.3	46.6		5.16		TAS				m_e	
GEC2	83.46		P	14:57:27.731		46.7		5.07		TAS		10.4	0.93	a_e mb	5.0
GEC2	83.46		pP	14:57:36.548		46.6		5.16		TAS				m_e	
GRA1	84.08		P	14:57:31.731		46.7		5.07		TAS		36.3	0.92	a_e mb	5.6
GRA1	84.08		L	15:39:15.286						T_		797.7	20.80	a_e Ms	5.1
GTTG	83.38		P	14:57:27.881	0.0	46.7		5.07		TAS		21.1	0.81	a_e mb	5.4
GTTG	83.38		pP	14:57:36.878	0.3	46.6		5.16		TAS				m_e	
GUNZ	83.10		P	14:57:26.381	0.1	46.7		5.07		TAS		17.5	0.99	a_e mb	5.2
GUNZ	83.10		pP	14:57:35.221	-0.5	46.6		5.16		TAS				m_e	
IBBN	83.81		P	14:57:29.681	-0.2	46.7		5.07		TAS		32.7	0.94	a_e mb	5.5
IBBN	83.81		pP	14:57:38.417	-0.3	46.6		5.16		TAS				m_e	
KAST	84.31		P	14:57:32.531	0.0	46.7		5.07		TAS		11.9	0.87	a_e mb	5.1
KAST	84.31		pP	14:57:41.401	0.1	46.6		5.16		TAS				m_e	
MANZ	83.46		P	14:57:28.231		46.7		5.07		TAS		3.8	0.97	a_e mb	4.6
MANZ	83.46		pP	14:57:37.178		46.6		5.16		TAS				m_e	
MOX	83.25		P	14:57:27.081	0.1	46.7		5.07		TAS		12.7	0.94	a_e mb	5.1
MOX	83.25		pP	14:57:35.866	-0.1	46.6		5.16		TAS				m_e	
MOX	83.25		L	15:38:57.256						T_		820.2	20.10	a_e Ms	5.1
NEUB	82.80		P	14:57:24.681	-0.1	46.7		5.07		TAS		31.8	0.86	a_e mb	5.6
NEUB	82.80		pP	14:57:33.673	0.0	46.6		5.16		TAS				m_e	
NRDL	82.65		P	14:57:24.131	0.4	46.7		5.07		TAS		105.4	2.59	a_e mb	5.6

GRA1	84.99	P	15:52:26.410		46.5	5.02	TAS	32.2	1.06	a_e	mb	5.5
GRA1	84.99	L	16:34:33.910				T__	349.9	20.40	a_e	Ms	4.7
GTTG	84.28	P	15:52:22.510	-0.0	46.5	5.02	TAS	18.9	0.98	a_e	mb	5.3
GTTG	84.28	pP	15:52:31.590	-0.1	46.6	5.13	TAS			m_e		
GUNZ	84.01	P	15:52:21.060	-0.4	46.5	5.02	TAS	15.2	1.07	a_e	mb	5.2
GUNZ	84.01	pP	15:52:30.038		46.6	5.13	TAS			m_e		
IBBN	84.71	P	15:52:24.410	-0.3	46.5	5.02	TAS	30.8	1.13	a_e	mb	5.4
KAST	85.22	P	15:52:27.260	-0.0	46.5	5.02	TAS	9.5	1.02	a_e	mb	5.0
KAST	85.22	pP	15:52:36.224	-0.1	46.6	5.13	TAS			m_e		
MANZ	84.37	P	15:52:22.910		46.5	5.02	TAS	3.0	1.05	m_e	mb	4.5
MANZ	84.37	pP	15:52:32.005		46.6	5.13	TAS			m_e		
MOX	84.16	P	15:52:21.710	0.1	46.5	5.02	TAS	11.9	1.15	a_e	mb	5.0
MOX	84.16	pP	15:52:30.682	-0.3	46.6	5.13	TAS			m_e		
MOX	84.16	L	16:33:43.647				T__	332.5	20.70	a_e	Ms	4.7
NEUB	83.71	P	15:52:19.360	-0.1	46.5	5.02	TAS	41.6	1.19	a_e	mb	5.5
NEUB	83.71	pP	15:52:28.330	0.2	46.6	5.13	TAS			m_e		
PLN	84.01	P	15:52:20.960	0.3	46.5	5.02	TAS	15.4	1.16	a_e	mb	5.1
PLN	84.01	pP	15:52:30.073		46.6	5.13	TAS			m_e		
RETH	83.71	P	15:52:19.484	-0.0	46.5	5.02	TAS	20.1	1.27	m_e	mb	5.2
ROTZ	84.48	P	15:52:23.660		46.5	5.02	TAS	6.1	1.20	a_e	mb	4.7
ROTZ	84.48	pP	15:52:32.521		46.6	5.13	TAS			m_e		
TANN	83.92	P	15:52:20.510	0.2	46.5	5.02	TAS	11.8	1.27	a_e	mb	5.0
TANN	83.92	pP	15:52:29.296		46.6	5.13	TAS			m_e		
TNS	85.90	P	15:52:30.560		46.5	5.02	TAS	11.3	0.97	a_e	mb	5.0
TNS	85.90	pP	15:52:39.568		46.6	5.13	TAS			m_e		
UBBA	84.78	P	15:52:24.960	0.1	46.5	5.02	TAS	28.1	1.54	a_e	mb	5.3
UBBA	84.78	pP	15:52:33.692	0.0	46.6	5.13	TAS			m_e		
WERD	83.97	P	15:52:20.710	0.5	46.5	5.02	TAS	13.1	1.07	a_e	mb	5.1
WERD	83.97	pP	15:52:29.597		46.6	5.13	TAS			m_e		
WERN	84.04	P	15:52:21.221	-0.5	46.5	5.02	TAS	22.9	1.24	m_e	mb	5.3
WERN	84.04	pP	15:52:30.194		46.6	5.13	TAS			m_e		
WET	84.57	P	15:52:23.989		46.5	5.02	TAS	7.5	1.14	m_e	mb	4.8
WET	84.57	pP	15:52:32.831		46.6	5.13	TAS			m_e		
WLF	87.33	pP	15:52:46.712		46.6	5.13	TAS			m_e		

Event 71220007 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/20	19:57:36.99			35.7100	51.7170				33.0					32.46	32.46	m i ke	BGR
71220013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	71220013
Ms	3.8		BGR	71220013

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

./2017/bul1712.txt Thu Apr 23 08:38:25 2020 30

GRA1	32.46	P	20:04:03.901	106.3	8.78	TAS	17.6	1.53	m_e	mb	4.8
GRA1	32.46	L	20:22:00.266			T__	233.2	21.30	a_e	Ms	3.8

Event 71220008 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/20	20:22:22.74			35.9650	45.4600				33.0					28.34	28.34	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	71220014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	28.34		P	20:28:13.421		111.6		9.76		TAS		4.4	0.75	m_e	mb	4.4

Event 71221003 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/21	03:00:19.00			29.2900	142.7200				16.0					90.33	90.33	m i ke	NEIC-M

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	71221009
Ms	5.8		BGR	71221009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude		
GRA1	90.33		P	03:13:19.501		47.3		4.07		TAS		89.3	2.50	m_e	mb	5.6	
GRA1	90.33		PP	03:16:54.634		43.3		7.83		TAS				m_e			
GRA1	90.33		L	03:58:18.179						T__		3324.4	18.00	a_e	Ms	5.8	

Event 71221004 Southeast of Shikoku, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/21	03:40:53.79			30.8500	133.8400				31.1	0.8		32		81.94	87.35	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	71221010
Ms	5.4		BGR	71221010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	86.31		P	03:53:33.482		46.6		5.04		TAS		38.9	1.54	m_e	mb	5.3
BFO	87.33		P	03:53:37.795		46.6		5.04		TAS		41.2	1.63	m_e	mb	5.3
BSEG	82.49		P	03:53:13.785	0.2	46.6		5.04		TAS		20.5	1.15	m_e	mb	5.2
BUG	85.57		P	03:53:29.206	-0.3	46.6		5.04		TAS		48.5	1.79	m_e	mb	5.3
BUG	85.57		pP	03:53:38.258		46.5		5.03		TAS				m_e		
CLL	83.08		P	03:53:16.720	-0.5	46.6		5.04		TAS		21.6	0.85	m_e	mb	5.4
CLL	83.08		pP	03:53:25.516	-0.1	46.5		5.03		TAS				m_e		
CLZ	83.92		P	03:53:21.469	-0.0	46.6		5.04		TAS		38.1	1.17	m_e	mb	5.5
CLZ	83.92		pP	03:53:30.391	-0.1	46.5		5.03		TAS				m_e		
FBE	83.17		P	03:53:17.402	-0.2	46.6		5.04		TAS		159.3	2.06	m_e	mb	5.9
FBE	83.17		pP	03:53:26.456	0.1	46.5		5.03		TAS				m_e		
FLT1	83.20		P	03:53:16.855	0.1	46.6		5.04		TAS		27.6	1.08	m_e	mb	5.4
FUR	86.04		P	03:53:31.725	0.2	46.6		5.04		TAS		54.1	1.25	m_e	mb	5.5
GEC2	84.39		P	03:53:23.203	-0.3	46.6		5.04		TAS		11.6	1.05	m_e	mb	5.0
GEC2	84.39		pP	03:53:32.145		46.5		5.03		TAS				m_e		
GOR1	82.71		P	03:53:15.137	-0.1	46.6		5.04		TAS		49.8	1.37	m_e	mb	5.6
GRA1	85.01		P	03:53:26.720	-0.0	46.6		5.04		TAS		56.4	1.25	a_e	mb	5.7
GRA1	85.01		pP	03:53:35.914		46.5		5.03		TAS				m_e		
GRA1	85.01		L	04:35:31.962						T__		2058.8	19.20	a_e	Ms	5.5
GTTG	84.31		P	03:53:23.027	0.0	46.6		5.04		TAS		31.0	1.07	m_e	mb	5.5
GUNZ	84.03		P	03:53:21.579	-0.2	46.6		5.04		TAS		31.1	1.24	m_e	mb	5.4
GUNZ	84.03		pP	03:53:30.828	0.2	46.5		5.03		TAS				m_e		
IBBN	84.74		P	03:53:24.863	-0.1	46.6		5.04		TAS		39.5	1.29	m_e	mb	5.5
IBBN	84.74		pP	03:53:34.002		46.5		5.03		TAS				m_e		
KAST	85.24		P	03:53:27.651	0.4	46.6		5.04		TAS		18.4	1.22	m_e	mb	5.2
KAST	85.24		pP	03:53:36.561		46.5		5.03		TAS				m_e		
MANZ	84.39		P	03:53:23.488	0.1	46.6		5.04		TAS		16.3	1.94	m_e	mb	4.9
MANZ	84.39		pP	03:53:32.640		46.5		5.03		TAS				m_e		
MOX	84.18		P	03:53:22.507	0.5	46.6		5.04		TAS		55.0	1.71	m_e	mb	5.5
MOX	84.18		pP	03:53:31.421		46.5		5.03		TAS				m_e		
MOX	84.18		L	04:34:53.033						T__		1462.5	20.00	a_e	Ms	5.4
NEUB	83.73		P	03:53:20.146	-0.1	46.6		5.04		TAS		44.0	1.13	m_e	mb	5.6
NEUB	83.73		pP	03:53:29.058	0.1	46.5		5.03		TAS				m_e		
NRDL	83.58		P	03:53:19.165	0.4	46.6		5.04		TAS		86.8	2.14	m_e	mb	5.6
PLN	84.03		P	03:53:21.613	0.0	46.6		5.04		TAS		17.0	1.14	m_e	mb	5.2
PLN	84.03		pP	03:53:30.811	-0.1	46.5		5.03		TAS				m_e		
RETH	83.74		P	03:53:20.076	0.0	46.6		5.04		TAS		72.5	1.85	m_e	mb	5.6
ROTZ	84.49		P	03:53:24.466	0.1	46.6		5.04		TAS		9.6	1.29	m_e	mb	4.9
ROTZ	84.49		pP	03:53:33.268		46.5		5.03		TAS				m_e		
RUE	81.94		P	03:53:10.918	-0.0	46.6		5.04		TAS		67.6	1.53	m_e	mb	5.5
STU	86.61		P	03:53:34.276		46.6		5.04		TAS		41.2	1.00	m_e	mb	5.5
STU	86.61		pP	03:53:43.441		46.5		5.03		TAS				m_e		
TANN	83.94		P	03:53:21.093	0.1	46.6		5.04		TAS		38.2	1.57	m_e	mb	5.4
TANN	83.94		pP	03:53:30.239	0.3	46.5		5.03		TAS				m_e		
TNS	85.92		P	03:53:31.196	-0.4	46.6		5.04		TAS		62.4	1.98	m_e	mb	5.4
TNS	85.92		pP	03:53:40.345		46.5		5.03		TAS				m_e		
UBBA	84.80		P	03:53:25.627	0.1	46.6		5.04		TAS		89.0	1.81	m_e	mb	5.7
WERD	83.99		P	03:53:21.345	0.2	46.6		5.04		TAS		30.2	1.40	m_e	mb	5.3

WERD	83.99	pP	03:53:30.321	-0.1	46.5	5.03	TAS										m_e
WERN	84.06	P	03:53:21.851	0.1	46.6	5.04	TAS				22.6	1.10	m_e	mb			5.3
WERN	84.06	pP	03:53:30.872	-0.2	46.5	5.03	TAS										m_e
WET	84.59	P	03:53:24.458	-0.0	46.6	5.04	TAS				53.4	1.97	m_e	mb			5.4
WLF	87.35	P	03:53:38.494		46.6	5.04	TAS				67.2	1.87	m_e	mb			5.5

Event 71221007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/21	13:15:05.32			-19.9300	-177.1900				577.4	0.2		25		145.57	151.69	m i ke	BGR
	71221013																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.32		PKPbc	13:33:53.869		14.2		2.57		TAS					m_e
BRG	147.89		PKPbc	13:33:45.530	0.1	14.2		2.57		TAS					m_e
BSEG	145.57		PKPbc	13:33:38.880	-0.2	14.2		2.57		TAS					m_e
CLL	147.68		PKPbc	13:33:44.809	0.2	14.2		2.57		TAS					m_e
FBE	147.97		PKPbc	13:33:45.984	0.3	14.2		2.57		TAS					m_e
FLT1	147.00		PKPbc	13:33:42.726	-0.0	14.2		2.57		TAS					m_e
GEC2	149.85		PKPbc	13:33:50.529		14.2		2.57		TAS					m_e
GOR1	146.35		PKPbc	13:33:41.303	-0.1	14.2		2.57		TAS					m_e
GUNZ	148.71		PKPbc	13:33:47.752	-0.4	14.2		2.57		TAS					m_e
GUNZ	148.71		pPKPbc	13:36:00.051						T__					m_e
KAST	148.48		PKPbc	13:33:47.037	0.4	14.2		2.57		TAS					m_e
MANZ	149.11		PKPbc	13:33:48.843		14.2		2.57		TAS					m_e
MOX	148.57		PKPbc	13:33:47.190	-0.1	14.2		2.57		TAS					m_e
NRDL	147.00		PKPbc	13:33:42.924	-0.1	14.2		2.57		TAS					m_e
PLN	148.62		PKPbc	13:33:47.413	0.0	14.2		2.57		TAS					m_e
RETH	146.86		PKPbc	13:33:42.495	-0.3	14.2		2.57		TAS					m_e
RJOB	151.10		PKPbc	13:33:53.142		14.2		2.57		TAS					m_e
ROTZ	149.30		PKPbc	13:33:49.207		14.2		2.57		TAS					m_e
STU	150.77		PKPbc	13:33:52.778		14.2		2.57		TAS					m_e
TANN	148.63		PKPbc	13:33:47.620	-0.7	14.2		2.57		TAS					m_e
TNS	149.44		PKPbc	13:33:49.542		14.2		2.57		TAS					m_e
UBR	151.69		PKPbc	13:33:54.709		14.2		2.57		TAS					m_e
WERD	148.63		PKPbc	13:33:47.620	-0.3	14.2		2.57		TAS					m_e
WERD	148.63		pPKPbc	13:35:59.983						T__					m_e
WERN	148.77		PKPbc	13:33:48.116		14.2		2.57		TAS					m_e
WET	149.75		PKPbc	13:33:50.256		14.2		2.57		TAS					m_e
WLF	150.21		PKPbc	13:33:52.017		14.2		2.57		TAS					m_e

Event 71221008 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/21	17:04:51.19			30.5700	54.5900				13.5	1.7		32		35.84	40.85	m i ke	BGR
71221014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	71221014
Ms	4.4		BGR	71221014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	38.60		P	17:12:14.598	-0.6	104.8		8.47		TAS		12.4	1.00	a_e	mb 4.5
BFO	39.21		P	17:12:18.646	0.2	104.8		8.47		TAS		12.6	1.40	m_e	mb 4.4
BRG	36.28		P	17:11:54.648	-0.3	104.8		8.47		TAS		13.6	0.98	a_e	mb 4.7
BRG	36.28		pP	17:11:58.086	0.4	104.5		8.78		TAS				m_e	
BSEG	39.35		P	17:12:20.060	-0.2	104.8		8.47		TAS		18.1	1.05	m_e	mb 4.6
BUG	40.48		P	17:12:30.562		104.8		8.47		TAS		102.4	1.58	m_e	mb 5.2
CLL	36.98		P	17:12:00.948	0.1	104.8		8.47		TAS		48.4	1.15	a_e	mb 5.1
CLL	36.98		pP	17:12:04.459	-0.6	104.5		8.78		TAS				m_e	
CLZ	38.70		P	17:12:15.948	0.4	104.8		8.47		TAS		47.1	1.02	a_e	mb 5.1
FBE	36.65		P	17:11:57.898	-0.2	104.8		8.47		TAS		21.3	1.27	a_e	mb 4.7
FBE	36.65		pP	17:12:01.549	-0.1	104.5		8.78		TAS				m_e	
FLT1	38.33		P	17:12:11.820	0.2	104.8		8.47		TAS		21.5	0.80	m_e	mb 4.9
FLT1	38.33		pP	17:12:15.808		104.5		8.78		TAS				m_e	
FUR	37.25		P	17:12:03.148	-0.5	104.8		8.47		TAS		51.2	1.14	a_e	mb 5.2
FUR	37.25		pP	17:12:06.546		104.5		8.78		TAS				m_e	
GEC2	35.84		P	17:11:51.548	0.3	104.8		8.47		TAS		57.0	1.02	a_e	mb 5.3
GRA1	37.63		P	17:12:06.798	0.0	104.8		8.47		TAS		48.5	1.00	m_e	mb 5.2
GRA1	37.63		L	17:32:47.133						T__		722.6	20.20	a_e	Ms 4.5
GTTG	38.87		P	17:12:17.293	0.1	104.8		8.47		TAS		46.4	1.40	m_e	mb 4.9
GUNZ	37.11		P	17:12:01.708	0.1	104.8		8.47		TAS		6.6	0.99	m_e	mb 4.3
GUNZ	37.11		pP	17:12:05.269		104.5		8.78		TAS				m_e	
IBBN	40.38		P	17:12:29.384		104.8		8.47		TAS		43.1	1.38	m_e	mb 4.9
KAST	39.73		P	17:12:24.433		104.8		8.47		TAS		23.6	0.97	m_e	mb 4.8
MANZ	37.15		P	17:12:02.504	-0.6	104.8		8.47		TAS		1.5	1.01	m_e	mb 3.7
MOX	37.63		P	17:12:06.198	0.4	104.8		8.47		TAS		11.8	1.18	a_e	mb 4.5
MOX	37.63		L	17:30:05.095						T__		443.3	21.00	a_e	Ms 4.2
NEUB	37.68		P	17:12:06.848	0.5	104.8		8.47		TAS		24.5	0.87	a_e	mb 5.0
NEUB	37.68		pP	17:12:10.208		104.5		8.78		TAS				m_e	
NRDL	39.04		P	17:12:18.519	0.5	104.8		8.47		TAS		71.8	1.84	m_e	mb 5.0
PLN	37.25		P	17:12:02.748	-0.2	104.8		8.47		TAS		6.4	1.00	a_e	mb 4.3
PLN	37.25		pP	17:12:06.021		104.5		8.78		TAS				m_e	
RJOB	36.16		P	17:11:54.198	0.7	104.8		8.47		TAS		41.0	1.09	a_e	mb 5.2
ROTZ	37.03		P	17:12:01.448	-0.4	104.8		8.47		TAS		5.1	0.95	a_e	mb 4.2
STU	38.73		P	17:12:14.898	-0.7	104.8		8.47		TAS		80.3	1.01	a_e	mb 5.3
TANN	37.04		P	17:12:01.119	-0.1	104.8		8.47		TAS		5.4	1.03	m_e	mb 4.2
TANN	37.04		pP	17:12:04.500	0.1	104.5		8.78		TAS				m_e	
TNS	39.49		P	17:12:22.698	-0.0	104.8		8.47		TAS		71.8	0.98	a_e	mb 5.3
TNS	39.49		pP	17:12:26.463		104.5		8.78		TAS				m_e	

UBBA	38.66	P	17:12:15.392	0.4	104.8	8.47	TAS	38.3	1.48	m_e	mb	4.8
UBR	37.92	P	17:12:08.748	0.1	104.8	8.47	TAS	79.4	0.88	a_e	mb	5.5
WERD	37.15	P	17:12:01.848	0.3	104.8	8.47	TAS	6.3	1.01	a_e	mb	4.3
WERN	37.06	P	17:12:01.552	-0.4	104.8	8.47	TAS	10.4	1.08	m_e	mb	4.5
WET	36.44	P	17:11:56.198	-0.2	104.8	8.47	TAS	35.9	1.02	a_e	mb	5.1
WLF	40.85	P	17:12:33.298		104.8	8.47	TAS	37.1	0.95	a_e	mb	5.1

Event 71221009 Colombia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/21	19:26:43.44			4.9700	-76.2500				150.0			24		81.31	86.30	m i ke	BGR
71221015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	71221015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	81.94	P		19:38:46.814	-0.1	270.8		5.06		TAS		11.6	0.75	m_e	mb	5.1
BRG	86.30	P		19:39:08.392	0.3	270.8		5.06		TAS		8.2	0.88	m_e	mb	4.9
BSEG	83.99	P		19:38:56.719	0.3	270.8		5.06		TAS		15.8	1.02	m_e	mb	5.2
BUG	82.10	P		19:38:46.814	0.4	270.8		5.06		TAS		14.8	0.99	m_e	mb	5.1
CLL	85.69	P		19:39:05.209	-0.1	270.8		5.06		TAS		10.7	1.00	m_e	mb	4.9
CLZ	84.04	P		19:38:57.214	-0.1	270.8		5.06		TAS		7.2	0.67	m_e	mb	5.0
FBE	85.93	P		19:39:06.482	0.1	270.8		5.06		TAS		15.8	1.07	m_e	mb	5.1
FLT1	84.56	P		19:38:59.266	-0.4	270.8		5.06		TAS		8.7	0.74	m_e	mb	5.1
GEC2	86.26	P		19:39:07.897		270.8		5.06		TAS		8.4	0.93	m_e	mb	4.9
GTTG	83.78	P		19:38:55.799	-0.0	270.8		5.06		TAS		9.1	0.86	m_e	mb	5.0
GUNZ	85.30	P		19:39:03.440		270.8		5.06		TAS		6.2	1.10	m_e	mb	4.8
KAST	82.81	P		19:38:50.423	0.0	270.8		5.06		TAS		4.2	0.76	m_e	mb	4.7
MANZ	85.17	P		19:39:02.899		270.8		5.06		TAS		1.9	1.06	m_e	mb	4.2
MOX	84.84	P		19:39:01.018	0.2	270.8		5.06		TAS		9.7	1.43	m_e	mb	4.8
NRDL	83.87	P		19:38:56.507	0.1	270.8		5.06		TAS		8.4	0.75	m_e	mb	5.0
PLN	85.19	P		19:39:02.733	0.1	270.8		5.06		TAS		7.3	0.94	m_e	mb	4.9
RETH	83.41	P		19:38:54.101	0.2	270.8		5.06		TAS		8.7	0.65	m_e	mb	5.1
RJOB	85.72	P		19:39:05.191		270.8		5.06		TAS		9.4	0.68	m_e	mb	5.0
TANN	85.38	P		19:39:04.077	-0.1	270.8		5.06		TAS		10.4	1.03	m_e	mb	5.0
TNS	82.81	P		19:38:50.847		270.8		5.06		TAS		12.3	1.05	m_e	mb	5.1
WERD	85.28	P		19:39:03.299	-0.3	270.8		5.06		TAS		3.8	0.72	m_e	mb	4.7
WERN	85.33	P		19:39:03.865		270.8		5.06		TAS		6.1	0.86	m_e	mb	4.9
WET	85.71	P		19:39:05.492		270.8		5.06		TAS		12.0	0.90	m_e	mb	5.0
WLF	81.31	P		19:38:43.065		270.8		5.06		TAS		21.3	0.70	m_e	mb	5.3

Event 71223004 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/23	15:30:03.70			-13.1080	167.0610				202.0			7		136.46	140.53	m i ke	NEIC
OrigID 71223043																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	136.46		PKPdf	15:49:03.220	0.0	35.4		2.01		TAS				m_e	
CLL	136.50		PKPdf	15:49:03.220		35.4		2.01		TAS				m_e	
GEC2	138.11		PKPdf	15:49:06.621		35.4		2.01		TAS				m_e	
PLN	137.47		PKPdf	15:49:05.377		35.4		2.01		TAS				m_e	
TANN	137.41		PKPdf	15:49:04.962		35.4		2.01		TAS				m_e	
UBR	140.53		PKPdf	15:49:11.357		35.4		2.01		TAS				m_e	
WERD	137.45		PKPdf	15:49:04.962		35.4		2.01		TAS				m_e	

Event 71223005 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/23	19:11:08.62			56.1300	-161.8670				44.3	0.9		26		71.54	77.69	m i ke	BGR
OrigID 71223011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	71223011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	76.97		P	19:22:54.710		356.0		5.84		TAS		8.0	0.98	m_e mb	4.8
BFO	75.59		P	19:22:46.051		356.0		5.84		TAS		3.8	0.99	m_e mb	4.5
BRG	73.31		P	19:22:33.454	0.0	356.0		5.84		TAS		6.9	0.93	m_e mb	4.8
CLL	72.85		P	19:22:30.128	0.3	356.0		5.84		TAS		7.7	0.94	m_e mb	4.8
CLZ	72.20		P	19:22:27.028	-0.2	356.0		5.84		TAS		21.4	1.13	m_e mb	5.2
FBE	73.24		P	19:22:33.160	0.3	356.0		5.84		TAS		8.5	0.74	m_e mb	5.0
FLT1	71.76		P	19:22:23.658	0.3	356.0		5.84		TAS		10.6	0.87	m_e mb	5.0
GEC2	75.33		P	19:22:44.954		356.0		5.84		TAS		8.8	1.10	m_e mb	4.7
GRA1	74.39		P	19:22:39.872		356.0		5.84		TAS		7.0	0.65	m_e mb	4.8
GRA1	74.39		pP	19:22:52.767						T__				m_e	
GRA1	74.39		sP	19:22:57.377						T__				m_e	
GTTG	72.48		P	19:22:28.510	0.3	356.0		5.84		TAS		14.8	0.96	m_e mb	5.1
IBBN	71.59		P	19:22:23.051	-0.1	356.0		5.84		TAS		23.9	0.99	m_e mb	5.3
KAST	72.73		P	19:22:29.723	0.1	356.0		5.84		TAS		7.4	1.06	m_e mb	4.7
KBA	77.08		P	19:22:55.591		356.0		5.84		TAS		15.7	0.92	m_e mb	5.1
MOX	73.46		P	19:22:33.969	-0.5	356.0		5.84		TAS		14.4	1.04	m_e mb	5.0
NRDL	71.54		P	19:22:22.898	0.1	356.0		5.84		TAS		8.8	0.94	m_e mb	4.9
OBKA	77.69		P	19:22:58.400		356.0		5.84		TAS		16.4	0.65	m_e mb	5.3
RJOB	76.41		P	19:22:51.357		356.0		5.84		TAS		10.7	0.84	m_e mb	5.0
ROTZ	74.36		P	19:22:39.563		356.0		5.84		TAS		3.3	1.19	m_e mb	4.2

RUE	71.70	P	19:22:23.927	-0.4	356.0	5.84	TAS	25.7	0.83	m_e	mb	5.4
TNS	73.71	P	19:22:35.856	-0.2	356.0	5.84	TAS	9.6	0.94	m_e	mb	4.8
UBR	76.34	P	19:22:51.055		356.0	5.84	TAS	6.5	1.05	m_e	mb	4.7
WERD	73.68	P	19:22:35.654	-0.0	356.0	5.84	TAS	8.2	1.07	m_e	mb	4.7
WERN	73.84	P	19:22:36.505	-0.4	356.0	5.84	TAS	17.2	1.34	m_e	mb	4.9
WET	75.00	P	19:22:43.181		356.0	5.84	TAS	7.1	1.12	m_e	mb	4.6
WLF	74.10	P	19:22:38.107		356.0	5.84	TAS	13.9	0.99	m_e	mb	4.9
WTTA	76.83	P	19:22:53.701		356.0	5.84	TAS	16.7	1.09	m_e	mb	5.1

Event 71223007 North of Severnaya Zemlya

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/23	22:13:10.94			84.3810	90.1320				33.0					38.75	39.73	m i ke	BGR
OrigID 71223013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	71223013
Ms	3.8		BGR	71223013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	39.73		P	22:20:39.118		9.7		8.03		TAS		7.8	0.99	m_e	mb	4.3
GRA1	39.73		L	22:35:13.817						T__		189.0	21.30	a_e	Ms	3.9
MOX	38.75		L	22:35:45.962						T__		123.7	19.30	a_e	Ms	3.7

Event 71223008 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/23	22:58:18.07			28.1220	57.0610				33.0				9	37.47	42.70	m i ke	BGR
OrigID 71223014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	71223014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	37.47		P	23:05:28.437	0.0	104.5		8.24		TAS		4.7	0.81	m_e	mb	4.3
BALST	42.70		P	23:06:11.138		104.5		8.24		TAS		7.2	0.72	m_e	mb	4.5
DAVA	41.22		P	23:05:58.969		104.5		8.24		TAS		16.8	0.62	m_e	mb	4.9
MOA	38.45		P	23:05:36.650	0.0	104.5		8.24		TAS		5.7	0.65	m_e	mb	4.4
PLONS	41.52		P	23:06:01.287		104.5		8.24		TAS		8.3	0.63	m_e	mb	4.6
RJOB	39.38		P	23:05:44.237	-0.1	104.5		8.24		TAS		5.8	0.66	m_e	mb	4.3
UBR	41.15		P	23:05:58.358		104.5		8.24		TAS		9.1	0.72	m_e	mb	4.6
WILA	41.90		P	23:06:04.731		104.5		8.24		TAS		15.4	0.74	m_e	mb	4.8
WTTA	40.05		P	23:05:49.412		104.5		8.24		TAS		11.8	0.65	m_e	mb	4.7

Event 71224006 Leeward Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/24	15:12:43.01			15.7820	-63.3380				94.1	0.8		10		65.54	69.91	m i ke	BGR
OrigID 71224012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	71224012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	65.54		P	15:23:16.209	-0.6	268.8		6.26		TAS		20.0	0.96	m_e mb	5.3
AHRW	65.54		pP	15:23:40.253						T__				m_e	
ASSE	67.90		pP	15:23:54.344						T__				m_e	
BRG	69.91		P	15:23:43.199		268.8		6.26		TAS		5.6	0.89	m_e mb	4.7
CLL	69.32		pP	15:24:03.641						T__				m_e	
FBE	69.54		P	15:23:41.083		268.8		6.26		TAS		7.5	0.92	m_e mb	4.8
GEC2	69.78		P	15:23:42.349		268.8		6.26		TAS		3.3	0.71	m_e mb	4.6
GEC2	69.78		pP	15:24:06.379						T__				m_e	
KAST	66.44		P	15:23:20.932	0.1	268.8		6.26		TAS		8.8	0.88	m_e mb	5.0
KAST	66.44		pP	15:23:44.648						T__				m_e	
MANZ	68.74		P	15:23:36.036		268.8		6.26		TAS		3.4	1.02	m_e mb	4.5
MANZ	68.74		pP	15:23:59.894						T__				m_e	
NRDL	67.57		P	15:23:28.500		268.8		6.26		TAS		42.9	1.69	m_e mb	5.4
ROTZ	68.80		P	15:23:36.699		268.8		6.26		TAS		0.7	0.93	m_e mb	3.9
TANN	68.97		P	15:23:37.411		268.8		6.26		TAS		4.2	1.08	m_e mb	4.6
WET	69.24		P	15:23:38.856		268.8		6.26		TAS		2.5	0.85	m_e mb	4.4

Event 71224007 Hindu Kush, Afghanistan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/24	15:42:50.37			36.1550	68.9070				175.9	1.9		7		41.51	43.99	m i ke	BGR
OrigID 71224013																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	71224013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	41.51		P	15:50:19.231	0.1	81.7		7.97		TAS		6.0	0.62	m_e mb	4.5
BRG	41.51		pP	15:50:57.840						T__				m_e	
BSEG	43.69		P	15:50:35.922		81.7		7.97		TAS		19.3	0.83	m_e mb	4.9
FBE	41.88		P	15:50:22.599	0.5	81.7		7.97		TAS		11.4	0.89	m_e mb	4.6
FBE	41.88		pP	15:51:00.489						T__				m_e	

GTTG	43.99	P	15:50:38.876		81.7		7.97	TAS	8.9	0.75	m_e	mb	4.6
HKWD	42.57	P	15:50:27.979	0.1	81.7		7.97	TAS	3.8	0.78	m_e	mb	4.2
MODW	42.44	P	15:50:26.670	-0.1	81.7		7.97	TAS	3.0	0.78	m_e	mb	4.1
MOX	43.00	P	15:50:31.263		81.7		7.97	TAS	4.4	0.90	m_e	mb	4.2
ROTZ	42.67	P	15:50:29.344		81.7		7.97	TAS	1.8	1.21	m_e	mb	3.7
SCHF	42.50	P	15:50:27.251		81.7		7.97	TAS	9.8	1.36	m_e	mb	4.4
WERD	42.57	P	15:50:27.994		81.7		7.97	TAS	5.9	1.07	m_e	mb	4.2
WIMM	43.03	P	15:50:30.921	-0.1	81.7		7.97	TAS	9.0	0.73	m_e	mb	4.6
ZEITZ	42.66	pP	15:51:06.253					T__			m_e		

Event 71224008 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/24	17:33:44.09			-15.7200	-172.1400				60.8	5.2		21		145.03	148.48	m i ke	BGR
71224014																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	147.92		PKPbc	17:53:21.649		6.1		2.98		TAS				m_e	
BFO	147.48		PKPbc	17:53:20.304		6.1		2.98		TAS				m_e	
DAVA	148.48		PKPbc	17:53:22.825		6.1		2.98		TAS				m_e	
DAVA	148.48		pPKPbc	17:53:40.583		9.2		2.81		TAS				m_e	
FUR	147.53		PKPbc	17:53:21.034		6.1		2.98		TAS				m_e	
GEC2	146.62		PKPbc	17:53:18.722		6.1		2.98		TAS				m_e	
GEC2	146.62		pPKPbc	17:53:35.080		9.2		2.81		TAS				m_e	
GRA1	146.01		PKPbc	17:53:16.167		6.1		2.98		TAS				m_e	
GRA1	146.01		pPKPbc	17:53:34.196		9.2		2.81		TAS				m_e	
GUNZ	145.26		PKPbc	17:53:13.636		6.1		2.98		TAS				m_e	
MANZ	145.65		PKPbc	17:53:14.342		6.1		2.98		TAS				m_e	
MOA	147.53		pPKPbc	17:53:37.229		9.2		2.81		TAS				m_e	
MOX	145.03		PKPbc	17:53:13.112	-0.6	6.1		2.98		TAS				m_e	
MOX	145.03		pPKPbc	17:53:30.452		9.2		2.81		TAS				m_e	
RJOB	147.81		PKPbc	17:53:21.915		6.1		2.98		TAS				m_e	
ROTZ	145.86		PKPbc	17:53:15.072		6.1		2.98		TAS				m_e	
ROTZ	145.86		pPKPbc	17:53:33.307		9.2		2.81		TAS				m_e	
STU	147.02		PKPbc	17:53:19.574		6.1		2.98		TAS				m_e	
STU	147.02		pPKPbc	17:53:36.864		9.2		2.81		TAS				m_e	
TANN	145.19		PKPbc	17:53:13.210		6.1		2.98		TAS				m_e	
TNS	145.58		PKPbc	17:53:14.463		6.1		2.98		TAS				m_e	
UBR	148.08		PKPbc	17:53:22.737		6.1		2.98		TAS				m_e	
WERD	145.18		pPKPbc	17:53:30.960		9.2		2.81		TAS				m_e	
WERN	145.33		PKPbc	17:53:14.342		6.1		2.98		TAS				m_e	
WERN	145.33		pPKPbc	17:53:31.791		9.2		2.81		TAS				m_e	
WET	146.41		PKPbc	17:53:17.384		6.1		2.98		TAS				m_e	
WET	146.41		pPKPbc	17:53:35.133		9.2		2.81		TAS				m_e	

WLF	146.12	PKPbc	17:53:16.960	6.1	2.98	TAS	m_e
WLF	146.12	pPKPbc	17:53:34.661	9.2	2.81	TAS	m_e
WTTA	148.39	PKPbc	17:53:22.208	6.1	2.98	TAS	m_e
WTTA	148.39	pPKPbc	17:53:40.377	9.2	2.81	TAS	m_e

Event 71225001 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	05:14:01.93			39.0740	26.1510				33.0			28		13.24	18.37	m i ke	BGR
71225007																	

Magnitude Err Nsta Author OrigID
 Ms 3.3 BGR 71225007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	17.68		P	05:18:07.498		129.4		11.33		TAS				m_e	
BFO	15.83		P	05:17:45.615	0.0	129.4		11.33		TAS				m_e	
BRG	14.60		P	05:17:31.879	-0.4	129.4		11.33		TAS		17.6	0.99	m_e	
BSEG	18.37		P	05:18:13.350		129.4		11.33		TAS		21.3	0.82	m_e	
BUG	18.09		P	05:18:12.197		129.4		11.33		TAS				m_e	
CLL	15.32		P	05:17:39.824	0.3	129.4		11.33		TAS				m_e	
CLZ	16.85		P	05:17:57.931	-0.0	129.4		11.33		TAS				m_e	
FBE	14.88		P	05:17:35.733	-0.5	129.4		11.33		TAS				m_e	
FLT1	16.81		P	05:17:56.736	0.6	129.4		11.33		TAS				m_e	
FUR	14.07		P	05:17:26.468	1.1	129.4		11.33		TAS		44.8	0.74	m_e	
GEC2	13.24		P	05:17:17.976	-0.2	129.4		11.33		TAS		24.1	0.82	m_e	
GRA1	15.02		P	05:17:37.101	-0.2	129.4		11.33		TAS				m_e	
GRA1	15.02		L	05:23:09.989						T__		177.8	19.40	a_e Ms	3.2
GTTG	16.84		P	05:17:59.241	-0.1	129.4		11.33		TAS				m_e	
GUNZ	14.93		P	05:17:36.137	-0.4	129.4		11.33		TAS				m_e	
KAST	17.37		P	05:18:04.033	0.2	129.4		11.33		TAS				m_e	
MANZ	14.78		P	05:17:34.533	-0.2	129.4		11.33		TAS				m_e	
MOX	15.46		P	05:17:42.752	0.5	129.4		11.33		TAS				m_e	
MOX	15.46		L	05:25:26.913						T__		245.5	20.40	a_e Ms	3.4
NRDL	17.42		P	05:18:04.554		129.4		11.33		TAS				m_e	
PLN	15.10		P	05:17:38.075	0.1	129.4		11.33		TAS				m_e	
RETH	17.92		P	05:18:09.614		129.4		11.33		TAS				m_e	
ROTZ	14.59		P	05:17:31.731	0.4	129.4		11.33		TAS		3.7	0.96	m_e	
TANN	14.91		P	05:17:35.578	-0.3	129.4		11.33		TAS				m_e	
TNS	16.77		P	05:17:56.875	-0.3	129.4		11.33		TAS				m_e	
UBR	14.47		P	05:17:31.066	-1.0	129.4		11.33		TAS		83.5	0.75	m_e	
WERD	15.00		P	05:17:36.816	-0.7	129.4		11.33		TAS				m_e	
WERN	14.86		P	05:17:35.485	0.8	129.4		11.33		TAS				m_e	
WET	13.84		P	05:17:24.196	0.0	129.4		11.33		TAS		35.8	0.87	m_e	
WLF	17.74		P	05:18:07.194		129.4		11.33		TAS				m_e	

Event 71225002 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	05:14:54.76			29.1100	56.9400				33.0			14		36.74	43.33	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	71225008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	36.74		P	05:22:02.298	0.4	102.9		8.27		TAS		29.4	1.93	m_e mb	4.7
CLL	39.44		P	05:22:23.907	-0.0	102.9		8.27		TAS		9.3	1.16	m_e mb	4.3
DAVA	40.50		P	05:22:32.589		102.9		8.27		TAS		20.7	0.94	m_e mb	4.8
FUR	39.74		P	05:22:26.954		102.9		8.27		TAS		13.2	1.16	m_e mb	4.5
GEC2	38.33		P	05:22:14.598	0.1	102.9		8.27		TAS		9.3	1.04	m_e mb	4.5
GRA1	40.11		P	05:22:30.357		102.9		8.27		TAS		11.8	1.20	m_e mb	4.4
KBA	38.15		P	05:22:13.845	-0.6	102.9		8.27		TAS		8.1	1.11	m_e mb	4.4
MOA	37.71		P	05:22:10.122	0.4	102.9		8.27		TAS		6.6	0.99	m_e mb	4.3
RJOB	38.65		P	05:22:17.804	0.0	102.9		8.27		TAS		10.0	1.02	m_e mb	4.4
TNS	41.97		P	05:22:45.459		102.9		8.27		TAS				m_e	
UBR	40.42		P	05:22:32.231		102.9		8.27		TAS		17.8	0.99	m_e mb	4.7
WET	38.93		P	05:22:19.597	-0.5	102.9		8.27		TAS		5.1	1.04	m_e mb	4.1
WLF	43.33		P	05:22:56.711		102.9		8.27		TAS				m_e	
WTTA	39.32		P	05:22:22.687	-0.2	102.9		8.27		TAS		15.7	1.00	m_e mb	4.6

Event 71225003 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	05:25:36.26			29.3400	55.2000				33.0			16		35.44	40.72	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	71225009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	35.44		P	05:32:30.448	0.4	104.6		8.41		TAS		2.6	0.89	m_e mb	4.2
BRG	37.53		P	05:32:47.687	0.3	104.6		8.41		TAS		5.5	0.94	m_e mb	4.3
CLL	38.23		P	05:32:53.488	-0.4	104.6		8.41		TAS		9.9	0.94	m_e mb	4.5
CLZ	39.96		P	05:33:08.230		104.6		8.41		TAS		19.5	1.44	m_e mb	4.5
DAVA	39.19		P	05:33:01.060		104.6		8.41		TAS		17.1	0.88	m_e mb	4.7
GEC2	37.06		P	05:32:42.993	-0.8	104.6		8.41		TAS		12.4	1.05	m_e mb	4.6
GRA1	38.86		P	05:32:58.639		104.6		8.41		TAS		21.8	1.09	m_e mb	4.7
KBA	36.84		P	05:32:41.928	0.4	104.6		8.41		TAS		6.8	0.96	m_e mb	4.3

MOA	36.43	P	05:32:37.963	-0.4	104.6	8.41	TAS	6.5	1.09	m_e	mb	4.4
OBKA	35.90	P	05:32:34.527	1.0	104.6	8.41	TAS	11.1	1.52	m_e	mb	4.5
RJOB	37.36	P	05:32:45.713	-0.4	104.6	8.41	TAS	8.8	1.02	m_e	mb	4.4
STU	39.94	P	05:33:08.634		104.6	8.41	TAS	19.2	1.07	m_e	mb	4.7
TNS	40.72	P	05:33:14.582		104.6	8.41	TAS	13.9	0.91	m_e	mb	4.7
UBR	39.12	P	05:33:00.348		104.6	8.41	TAS	11.0	0.86	m_e	mb	4.5
WET	37.67	P	05:32:47.513	-1.4	104.6	8.41	TAS	11.2	1.13	m_e	mb	4.5
WTTA	38.02	P	05:32:51.317	0.3	104.6	8.41	TAS	17.4	1.02	m_e	mb	4.7

Event 71225004 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	10:21:09.56			-21.5480	169.5980				33.0			27		145.02	149.35	m i ke	BGR
	71225010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.39		PKPbc	10:40:43.133	0.5	39.1		2.90		TAS				m_e	
BFO	149.35		PKPbc	10:40:54.183		39.1		2.90		TAS				m_e	
BRG	145.07		PKPbc	10:40:41.899	0.2	39.1		2.90		TAS				m_e	
BUG	147.14		PKPbc	10:40:48.679		39.1		2.90		TAS				m_e	
CLL	145.14		PKPbc	10:40:41.877	0.2	39.1		2.90		TAS				m_e	
CLZ	145.73		PKPbc	10:40:44.496	0.7	39.1		2.90		TAS				m_e	
FBE	145.29		PKPbc	10:40:42.909	0.1	39.1		2.90		TAS				m_e	
FLT1	145.02		PKPbc	10:40:41.488	-0.2	39.1		2.90		TAS				m_e	
GEC2	146.67		PKPbc	10:40:47.020	0.1	39.1		2.90		TAS				m_e	
GRA1	147.11		PKPbc	10:40:48.606		39.1		2.90		TAS				m_e	
GTTG	146.12		PKPbc	10:40:45.650	-0.0	39.1		2.90		TAS				m_e	
GUNZ	146.13		PKPbc	10:40:45.866	0.3	39.1		2.90		TAS				m_e	
KAST	146.95		PKPbc	10:40:47.937	-0.5	39.1		2.90		TAS				m_e	
MANZ	146.51		PKPbc	10:40:46.948	0.0	39.1		2.90		TAS				m_e	
MOX	146.21		PKPbc	10:40:45.673	-0.0	39.1		2.90		TAS				m_e	
NRDL	145.29		PKPbc	10:40:42.758	0.3	39.1		2.90		TAS				m_e	
PLN	146.11		PKPbc	10:40:45.577	0.3	39.1		2.90		TAS				m_e	
RJOB	147.89		PKPbc	10:40:50.066		39.1		2.90		TAS				m_e	
ROTZ	146.64		PKPbc	10:40:47.164	-0.6	39.1		2.90		TAS				m_e	
STU	148.65		PKPbc	10:40:52.814		39.1		2.90		TAS				m_e	
TANN	146.04		PKPbc	10:40:45.361	0.1	39.1		2.90		TAS				m_e	
UBBA	146.69		PKPbc	10:40:47.380	0.3	39.1		2.90		TAS				m_e	
UBR	149.13		PKPbc	10:40:53.583		39.1		2.90		TAS				m_e	
WERD	146.08		PKPbc	10:40:45.289	0.5	39.1		2.90		TAS				m_e	
WERN	146.17		PKPbc	10:40:46.154	0.0	39.1		2.90		TAS				m_e	
WET	146.82		PKPbc	10:40:47.436	-0.5	39.1		2.90		TAS				m_e	
WLF	149.03		PKPbc	10:40:54.313		39.1		2.90		TAS				m_e	

Event 71225006 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	12:01:02.90			49.0180	154.3830				33.0					76.69	76.69	m i ke	BGR
OrigID 71225012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	71225012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	76.69		P	12:12:49.111		23.6		4.97		TAS		16.2	1.51	m_e mb	4.9

Event 71225008 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	17:56:03.90			-7.4470	161.5310				8.0					130.21	131.10	m i ke	NEIC
OrigID 71225047																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	131.10		L	19:12:49.493						T__		427.7	22.00	a_e	
MOX	130.21		L	19:12:42.216						T__		422.1	21.50	a_e	

Event 71225009 Tajikistan-Xinjiang border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	21:02:21.74			39.0100	73.8300				33.0				12	42.89	46.20	m i ke	BGR
OrigID 71225015																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	71225015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	42.89		P	21:10:17.050	0.6	79.9		8.19		TAS		4.3	0.81	m_e mb	4.2
BSEG	44.68		P	21:10:31.872		79.9		8.19		TAS		13.3	0.73	m_e mb	5.0
CLL	43.42		P	21:10:21.062	0.8	79.9		8.19		TAS		4.2	0.68	m_e mb	4.3
DAVA	46.20		P	21:10:43.396		79.9		8.19		TAS		10.6	0.79	m_e mb	4.9
FBE	43.25		P	21:10:20.059	0.3	79.9		8.19		TAS		7.0	0.78	m_e mb	4.5
FLT1	44.35		P	21:10:27.992		79.9		8.19		TAS		13.9	0.74	m_e mb	4.8

GEC2	43.37	P	21:10:21.431	0.1	79.9	8.19	TAS	9.9	1.10	m_e mb	4.5
GRA1	44.81	P	21:10:32.985		79.9	8.19	TAS	12.1	1.08	m_e mb	4.8
GTTG	45.26	P	21:10:36.701		79.9	8.19	TAS	12.0	0.82	m_e mb	4.9
NRDL	45.01	P	21:10:34.384		79.9	8.19	TAS	10.6	0.88	m_e mb	4.8
WET	43.85	P	21:10:25.197	0.0	79.9	8.19	TAS	8.3	1.19	m_e mb	4.3
WTTA	45.05	P	21:10:34.124		79.9	8.19	TAS	4.3	0.75	m_e mb	4.5

Event 71225010 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/25	23:47:05.10			38.1930	20.5680				1.0			20		11.10	17.25	m i ke	THE
71225088																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	71225016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	15.63	P		23:50:47.709		145.9		15.45		TAS		17.4	0.84	m_e mb	4.2
ASSE	15.56	P		23:50:45.952		145.9		15.45		TAS		17.3	1.09	m_e mb	4.1
BSEG	17.25	P		23:51:02.429		145.9		15.45		TAS		30.6	0.91	m_e mb	4.4
BUG	16.23	P		23:50:53.376		145.9		15.45		TAS		25.4	1.00	m_e mb	4.3
CLL	14.16	P		23:50:29.551	-1.4	145.9		15.45		TAS				m_e	
CLZ	15.41	P		23:50:43.202		145.9		15.45		TAS				m_e	
FLT1	15.57	P		23:50:44.531		145.9		15.45		TAS		20.2	1.03	m_e mb	4.2
FUR	12.04	P		23:49:49.809	-0.4	145.9		15.45		TAS				m_e	
GEC2	11.75	P		23:49:45.066	-0.4	145.9		15.45		TAS				m_e	
MANZ	13.25	P		23:50:04.823	-4.1	145.9		15.45		TAS				m_e	
MOX	13.98	P		23:50:16.145	2.9	145.9		15.45		TAS				m_e	
RJOB	11.10	P		23:49:37.662	1.6	145.9		15.45		TAS				m_e	
ROTZ	13.03	P		23:50:02.118	-3.5	145.9		15.45		TAS				m_e	
RUE	15.05	P		23:50:39.132		145.9		15.45		TAS				m_e	
STU	13.40	P		23:50:08.117	-2.1	145.9		15.45		TAS				m_e	
TANN	13.52	P		23:50:10.518	6.6	145.9		15.45		TAS				m_e	
TNS	14.81	P		23:50:29.278		145.9		15.45		TAS				m_e	
UBR	12.18	P		23:49:52.894	1.9	145.9		15.45		TAS				m_e	
WET	12.27	P		23:49:52.023	-1.8	145.9		15.45		TAS				m_e	
WLF	15.44	P		23:50:44.990		145.9		15.45		TAS				m_e	

Event 71226001 Afghanistan-Tajikistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/26	08:08:23.34			37.4000	71.7300				182.8	1.6		20		42.53	47.65	m i ke	BGR
71226007																	

Magnitude Err Nsta Author OrigID
mb 4.7 BGR 71226007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	46.91		P	08:16:36.193		83.2		8.02		TAS		11.4	0.87	m_e	mb 5.0
BRG	42.53		P	08:16:00.495		83.2		8.02		TAS		12.0	0.84	m_e	mb 4.7
BRG	42.53		pP	08:16:40.056		84.8		8.12		TAS				m_e	
BSEG	44.52		pP	08:16:56.843	-0.0	84.8		8.12		TAS				m_e	
CLL	43.09		P	08:16:04.688	0.4	83.2		8.02		TAS		6.0	0.81	m_e	mb 4.4
CLL	43.09		pP	08:16:44.166	0.6	84.8		8.12		TAS				m_e	
FBE	42.90		P	08:16:03.711		83.2		8.02		TAS		24.1	1.15	m_e	mb 4.8
FBE	42.90		pP	08:16:43.311	-0.2	84.8		8.12		TAS				m_e	
FLT1	44.09		P	08:16:12.481	-0.1	83.2		8.02		TAS		23.3	0.73	m_e	mb 5.0
FLT1	44.09		pP	08:16:52.397	-0.2	84.8		8.12		TAS				m_e	
FUR	44.59		P	08:16:16.871		83.2		8.02		TAS		34.3	1.46	m_e	mb 5.1
FUR	44.59		pP	08:16:56.280		84.8		8.12		TAS				m_e	
GOR1	43.99		pP	08:16:52.992	-0.4	84.8		8.12		TAS				m_e	
GRA1	44.40		P	08:16:15.824		83.2		8.02		TAS		17.4	1.22	m_e	mb 4.7
GRA1	44.40		pP	08:16:55.717		84.8		8.12		TAS				m_e	
GTTG	44.96		P	08:16:20.013	-0.0	83.2		8.02		TAS		18.9	0.84	m_e	mb 5.1
GTTG	44.96		pP	08:16:59.878	0.3	84.8		8.12		TAS				m_e	
GUNZ	43.60		P	08:16:09.120		83.2		8.02		TAS		10.7	1.12	m_e	mb 4.5
IBBN	46.22		pP	08:17:09.933	0.1	84.8		8.12		TAS				m_e	
MANZ	43.79		P	08:16:10.539		83.2		8.02		TAS		1.7	0.91	m_e	mb 3.8
MANZ	43.79		pP	08:16:50.501		84.8		8.12		TAS				m_e	
MOX	44.03		P	08:16:12.384		83.2		8.02		TAS		14.4	1.19	m_e	mb 4.6
MOX	44.03		pP	08:16:52.158		84.8		8.12		TAS				m_e	
NRDL	44.77		P	08:16:18.917	-0.1	83.2		8.02		TAS		17.6	0.88	m_e	mb 5.0
NRDL	44.77		pP	08:16:58.487	-0.2	84.8		8.12		TAS				m_e	
PLN	43.70		P	08:16:09.726		83.2		8.02		TAS				m_e	
ROTZ	43.75		P	08:16:10.238		83.2		8.02		TAS		3.6	1.29	m_e	mb 4.0
ROTZ	43.75		pP	08:16:50.004		84.8		8.12		TAS				m_e	
TANN	43.52		pP	08:16:47.945		84.8		8.12		TAS				m_e	
UBR	45.45		pP	08:17:02.414		84.8		8.12		TAS				m_e	
WERD	43.61		P	08:16:09.044		83.2		8.02		TAS		7.5	1.06	m_e	mb 4.4
WLF	47.65		P	08:16:41.233		83.2		8.02		TAS		29.3	1.23	m_e	mb 5.3

Event 71226002 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/26	09:11:10.13			32.2000	47.7500				33.0			15		28.74	35.41	m i ke	BGR
71226008																	

Magnitude Err Nsta Author OrigID
mb 4.8 BGR 71226008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	28.74		P	09:17:06.179	-0.3	109.8		8.72		TAS		9.4	0.93	m_e mb	4.6
BRG	31.06		P	09:17:26.426	0.0	109.8		8.72		TAS		5.8	0.97	m_e mb	4.5
CLL	31.78		P	09:17:33.221	-0.2	109.8		8.72		TAS		11.2	0.91	m_e mb	4.8
CLZ	33.50		P	09:17:46.898		109.8		8.72		TAS		12.4	0.75	m_e mb	4.9
FUR	31.75		P	09:17:32.801	-1.3	109.8		8.72		TAS		25.0	0.76	m_e mb	5.2
KBA	30.10		P	09:17:18.245	1.1	109.8		8.72		TAS		8.6	0.88	m_e mb	4.6
MANZ	31.81		P	09:17:34.284		109.8		8.72		TAS				m_e	
MOA	29.74		P	09:17:14.983	0.3	109.8		8.72		TAS		11.5	0.96	m_e mb	4.7
NRDL	33.89		P	09:17:51.774		109.8		8.72		TAS		19.8	0.96	m_e mb	5.0
RETH	34.40		P	09:17:56.501		109.8		8.72		TAS		20.4	0.92	m_e mb	5.0
RJOB	30.65		P	09:17:24.179	-0.5	109.8		8.72		TAS		5.4	0.70	m_e mb	4.6
ROTZ	31.68		P	09:17:32.008	-0.2	109.8		8.72		TAS		1.8	0.92	m_e mb	4.0
RUE	31.83		P	09:17:33.494		109.8		8.72		TAS		19.8	0.58	m_e mb	5.2
UBR	32.38		P	09:17:37.599		109.8		8.72		TAS		8.9	0.91	m_e mb	4.7
WLF	35.41		P	09:18:04.632		109.8		8.72		TAS		20.2	1.04	m_e mb	5.0
WTTA	31.27		P	09:17:28.233		109.8		8.72		TAS		13.3	0.79	m_e mb	4.9

Event 71226003 Near coast of Chiapas, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/26	09:13:42.78		15.4420	-93.6470					33.0					84.88	87.68	m i ke	BGR
71226009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	71226009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	84.88		P	09:26:16.281		281.4		5.53		TAS		17.0	0.98	m_e mb	5.2
GRA1	87.68		P	09:26:27.684		281.4		5.53		TAS		40.6	1.56	m_e mb	5.5
GTTG	86.28		P	09:26:22.960		281.4		5.53		TAS		38.5	1.13	m_e mb	5.4
KAST	85.48		P	09:26:17.954		281.4		5.53		TAS		21.7	1.27	m_e mb	5.2
STU	86.75		P	09:26:24.762		281.4		5.53		TAS		29.1	0.83	m_e mb	5.4
TNS	85.81		P	09:26:20.202		281.4		5.53		TAS		29.5	0.98	m_e mb	5.4

Event 71226005 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2017/12/26	11:15:30.50	0.44	0.65	51.5310	16.1930	5.6	2.2	21	1.0				17	201	0.69	3.66	m i ki	BGR
71226011																		

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	1.56		Sg	11:16:19.512	-0.6					T__				m_e	
BRG	1.56		Pn	11:15:57.721	-0.8					T__				m_e ML	4.1
CLL	2.01		Sg	11:16:34.260	-0.0					T__				m_e	
CLL	2.01		Pn	11:16:03.509	-1.0					T__				m_e	
CLZ	3.64		Sg	11:17:27.398	1.5					T__				m_e	
CLZ	3.64		Pn	11:16:27.362	0.9					T__				m_e ML	4.4
DPC	1.18		Sg	11:16:08.420	0.4					T__				m_e	
DPC	1.18		Pg	11:15:52.397	-0.4					T__				m_e ML	4.6
FBE	1.89		Sg	11:16:29.517	-0.9					T__				m_e	
FBE	1.89		Pn	11:16:02.426	-0.5					T__				m_e ML	3.9
GEC2	3.13		Pn	11:16:20.225	0.6					T__				m_e ML	4.6
GRA1	3.66		Pn	11:16:27.622	0.8					T__				m_e ML	4.9
KSP	0.69		Sg	11:15:53.086	0.6					T__				m_e	
KSP	0.69		Pg	11:15:43.589	0.1					T__				m_e ML	4.0
MANZ	3.02		Pn	11:16:18.319	0.1					T__				m_e ML	4.4
MORC	1.96		Pn	11:16:03.962	0.1					T__				m_e ML	4.4
MOX	3.02		Sg	11:17:06.472	0.1					T__				m_e	
MOX	3.02		Pn	11:16:17.984	-0.2					T__				m_e ML	4.5
OJC	2.63		Pn	11:16:12.216	-0.8					T__				m_e	
OKC	2.10		Pn	11:16:05.895	0.1					T__				m_e ML	3.9
ROTZ	3.09		Pn	11:16:19.274	0.1					T__				m_e ML	4.3
TANN	2.61		Sg	11:16:52.075	-1.3					T__				m_e	
TANN	2.61		Pn	11:16:12.529	-0.1					T__				m_e ML	4.4
WERD	2.68		Sg	11:16:56.622	0.9					T__				m_e	
WERD	2.68		Pn	11:16:13.643	-0.0					T__				m_e ML	4.2
WET	3.20		Pn	11:16:20.684	0.1					T__				m_e	

Event 71229006 Nicobar Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/29	11:29:30.75		7.4250	92.9110					10.0			21		77.32	80.90	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	71229012
Ms	4.3		BGR	71229012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	80.90		P	11:41:44.508		91.5		5.48		TAS		18.5	1.00	m_e mb	5.1
BRG	77.32		P	11:41:24.974	-0.2	91.5		5.48		TAS		18.8	0.89	m_e mb	5.2
BSEG	79.68		P	11:41:38.232		91.5		5.48		TAS		54.4	1.08	m_e mb	5.4
CLL	77.94		P	11:41:27.929	-0.6	91.5		5.48		TAS		12.1	0.86	m_e mb	5.1
CLZ	79.60		P	11:41:37.692		91.5		5.48		TAS		22.6	0.81	m_e mb	5.1
FBE	77.69		P	11:41:27.483	0.3	91.5		5.48		TAS		34.3	0.83	m_e mb	5.5

GEC2	77.35	P	11:41:25.307	-0.0	91.5	5.48	TAS	39.1	0.89	m_e	mb	5.5
GRA1	79.01	P	11:41:34.955	0.0	91.5	5.48	TAS	39.4	0.98	m_e	mb	5.4
GRA1	79.01	L	12:18:14.933				T__	133.4	20.60	a_e	Ms	4.3
GUNZ	78.31	P	11:41:30.623	-0.1	91.5	5.48	TAS	27.1	1.11	m_e	mb	5.3
MANZ	78.44	P	11:41:31.844	0.5	91.5	5.48	TAS	13.4	1.26	m_e	mb	4.9
MOX	78.78	P	11:41:33.124	0.2	91.5	5.48	TAS	14.2	0.76	m_e	mb	5.1
MOX	78.78	L	12:22:02.967				T__	137.2	20.20	a_e	Ms	4.3
NRDL	79.77	P	11:41:38.614		91.5	5.48	TAS	13.0	0.94	m_e	mb	4.8
RETH	80.23	P	11:41:40.837		91.5	5.48	TAS	17.5	1.13	m_e	mb	4.9
ROTZ	78.37	P	11:41:31.275	0.5	91.5	5.48	TAS	7.5	0.98	m_e	mb	4.8
RUE	77.53	P	11:41:26.072	-0.2	91.5	5.48	TAS	60.1	0.69	m_e	mb	5.8
TANN	78.23	P	11:41:29.993	0.0	91.5	5.48	TAS	20.4	1.34	m_e	mb	5.1
TNS	80.80	P	11:41:44.378		91.5	5.48	TAS	13.8	0.71	m_e	mb	5.1
UBR	79.71	P	11:41:38.021		91.5	5.48	TAS	34.8	0.65	m_e	mb	5.4
WERD	78.33	P	11:41:30.688	0.3	91.5	5.48	TAS	12.8	0.74	m_e	mb	5.1
WERN	78.28	P	11:41:30.485	-0.0	91.5	5.48	TAS	12.4	0.91	m_e	mb	5.0
WET	77.90	P	11:41:28.446	0.1	91.5	5.48	TAS	24.9	1.02	m_e	mb	5.3

Event 71230003 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/29	23:55:56.04			-5.4800	150.8400			95.0				16		122.06	126.71	m i ke	NEIC
	71230042																

Magnitude Err Nsta Author OrigID
Ms 5.1 BGR 71230009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	126.71		L	01:11:38.012						T__		507.6	20.20	a_e	Ms 5.2
BRG	122.27		PKPdf	00:14:38.618		51.4		2.01		TAS				m_e	
BSEG	122.06		PKPdf	00:14:38.121	-0.4	51.4		2.01		TAS				m_e	
BSEG	122.06		L	01:07:57.542						T__	499.2	20.30	a_e	Ms 5.2	
CLL	122.48		PKPdf	00:14:38.803	0.0	51.4		2.01		TAS				m_e	
CLL	122.48		L	01:10:05.907						T__	459.0	21.00	a_e	Ms 5.1	
CLZ	123.42		PKPdf	00:14:41.157	0.1	51.4		2.01		TAS				m_e	
FBE	122.54		PKPdf	00:14:39.250		51.4		2.01		TAS				m_e	
FLT1	122.69		PKPdf	00:14:39.016	-0.1	51.4		2.01		TAS				m_e	
FUR	125.29		L	01:09:35.102						T__	510.8	21.30	a_e	Ms 5.2	
GEC2	123.59		PKPdf	00:14:41.306		51.4		2.01		TAS				m_e	
GEC2	123.59		L	01:09:41.775						T__	523.3	21.00	a_e	Ms 5.2	
GRA1	124.38		L	01:06:21.684						T__	386.7	21.90	a_e	Ms 5.0	
GUNZ	123.40		PKPdf	00:14:40.892		51.4		2.01		TAS				m_e	
MANZ	123.74		PKPdf	00:14:41.654		51.4		2.01		TAS				m_e	
MOX	123.58		L	01:10:18.805						T__	478.1	20.10	a_e	Ms 5.1	
NRDL	123.11		PKPdf	00:14:40.709	0.2	51.4		2.01		TAS				m_e	
PLN	123.41		PKPdf	00:14:40.494		51.4		2.01		TAS				m_e	

./2017/bul1712.txt

Thu Apr 23 08:38:25 2020

48

STU	125.99	PKPdf	00:14:45.865	51.4	2.01	TAS											m_e	
TANN	123.30	PKPdf	00:14:39.797	51.4	2.01	TAS											m_e	
TNS	125.40	L	01:03:35.339			T__						444.7	21.00	a_e	Ms		5.1	
WERD	123.36	PKPdf	00:14:40.543	51.4	2.01	TAS											m_e	
WERN	123.42	PKPdf	00:14:41.007	51.4	2.01	TAS											m_e	
WET	123.85	PKPdf	00:14:41.704	51.4	2.01	TAS											m_e	
WET	123.85	L	01:08:18.640			T__								375.0	21.50	a_e	Ms	5.0

Event 71230004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/30	10:58:30.50			-21.7500	-179.4700				581.0				16	148.37	150.91	m i ke	NEIC
	71230043																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	149.09		PKPbc	11:17:13.298		20.7		2.40		TAS					m_e
CLL	148.93		PKPbc	11:17:12.512	0.3	20.7		2.40		TAS					m_e
CLZ	149.01		PKPbc	11:17:13.141	0.1	20.7		2.40		TAS					m_e
FBE	149.20		PKPbc	11:17:13.613		20.7		2.40		TAS					m_e
FLT1	148.37		PKPbc	11:17:11.097	-0.1	20.7		2.40		TAS					m_e
GTTG	149.37		PKPbc	11:17:13.613	-0.1	20.7		2.40		TAS					m_e
GUNZ	149.97		PKPbc	11:17:15.421		20.7		2.40		TAS					m_e
KAST	149.96		PKPbc	11:17:14.949	0.1	20.7		2.40		TAS					m_e
MANZ	150.37		PKPbc	11:17:16.207		20.7		2.40		TAS					m_e
MOX	149.88		PKPbc	11:17:14.871		20.7		2.40		TAS					m_e
PLN	149.90		PKPbc	11:17:14.792		20.7		2.40		TAS					m_e
TANN	149.89		PKPbc	11:17:14.949		20.7		2.40		TAS					m_e
TNS	150.91		PKPbc	11:17:17.308		20.7		2.40		TAS					m_e
UBBA	150.05		PKPbc	11:17:14.792		20.7		2.40		TAS					m_e
WERD	149.90		PKPbc	11:17:15.107		20.7		2.40		TAS					m_e
WERN	150.03		PKPbc	11:17:15.736		20.7		2.40		TAS					m_e

Event 71231002 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/31	03:48:42.15			29.5510	129.6670				33.0				34	81.06	86.54	m i ke	BGR
	71231008																

Magnitude Err Nsta Author OrigID

mb	5.8		BGR	71231008
MBB	6.1		BGR	71231008

Ms 4.2 BGR 71231008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	85.51		P	04:01:16.636	0.0	50.3		5.10		TAS		68.5	0.86	m_e mb	5.8
ASSE	82.76		P	04:01:01.377	0.5	50.3		5.10		TAS				m_e	
BRG	81.95		P	04:00:57.262	-0.1	50.3		5.10		TAS		21.6	0.88	m_e mb	5.3
BSEG	81.77		P	04:00:56.307	0.2	50.3		5.10		TAS		60.1	0.83	m_e mb	5.8
CLL	82.15		P	04:00:58.074	0.1	50.3		5.10		TAS		70.3	0.69	a_e mb	5.9
CLZ	83.09		P	04:01:03.674	0.2	50.3		5.10		TAS		166.6	0.87	m_e mb	6.3
FBE	82.22		P	04:00:59.057	-0.1	50.3		5.10		TAS		38.7	0.77	m_e mb	5.6
FLT1	82.37		P	04:00:59.024	-0.2	50.3		5.10		TAS		79.9	0.68	a_e mb	6.0
FUR	85.00		P	04:01:13.324		50.3		5.10		TAS		106.8	0.99	a_e mb	6.0
GEC2	83.32		P	04:01:04.378	0.3	50.3		5.10		TAS		44.7	0.85	m_e mb	5.7
GOR1	81.91		P	04:00:57.389	-0.2	50.3		5.10		TAS		128.0	1.19	m_e mb	5.9
GRA1	84.05		P	04:01:08.552	-0.0	50.3		5.10		TAS		138.1	0.98	m_e mb	6.1
GRA1	84.05		L	04:49:21.138						T__		119.4	19.90	a_e Ms	4.3
GTTG	83.47		P	04:01:05.374	-0.4	50.3		5.10		TAS		168.0	0.77	a_e mb	6.3
GUNZ	83.07		P	04:01:03.324	-0.1	50.3		5.10		TAS		64.5	0.91	m_e mb	5.9
IBBN	84.00		P	04:01:07.624	-0.5	50.3		5.10		TAS		186.6	0.76	a_e mb	6.4
KAST	84.43		P	04:01:10.074	0.3	50.3		5.10		TAS		77.3	0.77	a_e mb	6.0
MANZ	83.42		P	04:01:05.124	-0.2	50.3		5.10		TAS		12.9	0.90	a_e mb	5.2
MOX	83.25		P	04:01:03.989	-0.2	50.3		5.10		TAS		39.3	0.89	m_e MBB	6.0
MOX	83.25		L	04:45:26.083						T__		103.0	19.00	a_e Ms	4.2
NEUB	82.83		P	04:01:01.974	-0.2	50.3		5.10		TAS		313.1	1.34	a_e mb	6.4
NRDL	82.79		P	04:01:01.618	-0.0	50.3		5.10		TAS		52.2	1.08	m_e mb	5.7
PLN	83.08		P	04:01:03.004	-0.5	50.3		5.10		TAS		45.6	0.99	m_e mb	5.7
RETH	82.98		P	04:01:02.435	-0.1	50.3		5.10		TAS		76.4	1.12	m_e mb	5.8
RJOB	84.48		P	04:01:10.674		50.3		5.10		TAS		60.4	0.98	a_e mb	5.8
ROTZ	83.51		P	04:01:05.674	0.4	50.3		5.10		TAS		21.1	0.93	m_e mb	5.4
RUE	81.06		P	04:00:52.824	-0.2	50.3		5.10		TAS		90.6	0.96	a_e mb	5.8
STU	85.66		P	04:01:15.852	0.3	50.3		5.10		TAS		83.1	1.04	m_e mb	5.8
TANN	82.98		P	04:01:02.185	0.2	50.3		5.10		TAS		33.6	1.04	m_e mb	5.5
TNS	85.07		P	04:01:13.217	0.3	50.3		5.10		TAS		51.1	0.84	m_e mb	5.8
UBBA	83.93		P	04:01:07.426	1.1	50.3		5.10		TAS		51.2	0.77	m_e mb	5.8
UBR	85.92		P	04:01:16.732		50.3		5.10		TAS		33.9	1.20	m_e mb	5.4
WERD	83.03		P	04:01:02.999	0.2	50.3		5.10		TAS		48.0	1.07	m_e mb	5.7
WERN	83.10		P	04:01:03.524	0.2	50.3		5.10		TAS		67.5	0.88	m_e mb	5.9
WET	83.56		P	04:01:05.824	-0.5	50.3		5.10		TAS		30.3	1.00	m_e mb	5.5
WLF	86.54		P	04:01:20.602	0.2	50.3		5.10		TAS		135.1	1.33	m_e mb	5.9

Event 71231001 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/31	03:49:20.52			71.3010	-5.3430				33.0					18.74	23.15	m i ke	BGR
71231007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	71231007
Ms	3.3		BGR	71231007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	18.74		P	03:53:31.668		344.4		8.94		TAS		49.3	1.24	m_e	mb 4.6
CLL	21.72		P	03:54:07.958		344.4		8.94		TAS		78.9	1.76	m_e	mb 4.9
CLZ	20.77		P	03:53:58.661		344.4		8.94		TAS		23.8	1.27	m_e	mb 4.4
GRA1	22.99		L	04:06:08.433						T__		112.3	18.40	a_e	Ms 3.3
GRA4	23.15		P	03:54:23.641		344.4		8.94		TAS		26.4	1.25	m_e	mb 4.6
MOX	22.13		L	04:04:46.616						T__		101.5	19.50	a_e	Ms 3.2
TNS	22.08		P	03:54:09.869		344.4		8.94		TAS		16.8	1.02	m_e	mb 4.4
UBBA	21.71		P	03:54:06.440		344.4		8.94		TAS		73.0	1.73	m_e	mb 4.8

Event 71231003 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/31	04:02:19.00			38.2300	22.8800				10.0					12.02	17.92	m i ke	NEIC
OrigID 71231042																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.1		BGR	71231009
Ms	3.5		BGR	71231009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	14.61		L	04:12:06.714						T__			20.50	a_e	
BSEG	17.92		P	04:06:27.512		139.5		11.40		TAS		14.9	1.02	m_e	mb 4.1
CLL	14.82		P	04:05:54.563		139.5		11.40		TAS		15.2	0.71	m_e	
CLL	14.82		L	04:11:48.734						T__		358.4	21.00	a_e	Ms 3.5
FLT1	16.28		P	04:06:11.184		139.5		11.40		TAS		21.9	1.21	m_e	
FUR	13.03		L	04:11:37.170						T__		1562.6	19.30	a_e	Ms 4.1
GEC2	12.52		P	04:05:16.921		139.5		11.40		TAS		11.9	0.77	m_e	
GEC2	12.52		L	04:12:24.134						T__		169.5	20.40	a_e	Ms 3.0
GRA1	14.18		P	04:05:47.691		139.5		11.40		TAS		29.8	0.81	m_e	
GRA1	14.18		L	04:12:00.437						T__			18.60	a_e	
GTTG	16.12		P	04:06:09.327		139.5		11.40		TAS		51.6	0.99	m_e	
MANZ	14.05		P	04:05:42.756		139.5		11.40		TAS		2.0	0.64	m_e	
MOX	14.77		L	04:13:14.005						T__		890.4	18.20	a_e	Ms 3.9
RJOB	12.02		P	04:05:10.676		139.5		11.40		TAS		14.4	0.55	m_e	
TNS	15.80		P	04:06:04.047		139.5		11.40		TAS		15.4	0.73	m_e	
TNS	15.80		L	04:15:13.723						T__		182.1	20.70	a_e	Ms 3.2
WET	13.08		L	04:11:56.588						T__			18.60	a_e	

Event 71231004 Southern East Pacific Rise

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2017/12/31	20:59:03.30			-53.0700	-118.1600				10.0					146.44	151.35	m i ke	NEIC
OrigID 71231043																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.1		BGR	71231010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	146.44		L	22:19:20.284						T__		313.7	20.80	a_e Ms	5.1
BRG	150.84		PKPbc	21:18:55.657		244.1		3.02		TAS				m_e	
BSEG	149.89		PKPbc	21:18:53.427		244.1		3.02		TAS				m_e	
CLL	150.47		PKPbc	21:18:54.918		244.1		3.02		TAS				m_e	
FBE	150.52		PKPbc	21:18:55.109		244.1		3.02		TAS				m_e	
FUR	148.10		L	22:20:26.000						T__		281.3	20.20	a_e Ms	5.0
GEC2	149.84		PKPbc	21:18:53.026		244.1		3.02		TAS				m_e	
GEC2	149.84		L	22:19:49.174						T__		286.2	20.60	a_e Ms	5.1
GOR1	150.12		L	22:17:04.993						T__		254.0	21.00	a_e Ms	5.0
GRA1	148.76		PKPbc	21:18:50.860		244.1		3.02		TAS				m_e	
GRA1	148.76		L	22:18:49.276						T__		181.1	21.50	a_e Ms	4.8
GTTG	148.81		PKPbc	21:18:51.096		244.1		3.02		TAS				m_e	
MANZ	149.41		PKPbc	21:18:52.159		244.1		3.02		TAS				m_e	
MOX	149.40		PKPbc	21:18:52.118		244.1		3.02		TAS				m_e	
MOX	149.40		L	22:20:38.095						T__		407.0	19.30	a_e Ms	5.2
NEUB	149.71		PKPbc	21:18:53.352		244.1		3.02		TAS				m_e	
PLN	149.65		PKPbc	21:18:52.825		244.1		3.02		TAS				m_e	
RETH	148.93		PKPbc	21:18:51.495		244.1		3.02		TAS				m_e	
RJOB	148.80		PKPbc	21:18:50.322		244.1		3.02		TAS				m_e	
RUE	151.35		PKPbc	21:18:56.748		244.1		3.02		TAS				m_e	
TANN	149.79		PKPbc	21:18:53.374		244.1		3.02		TAS				m_e	
TNS	147.38		L	22:24:08.038						T__		425.3	18.50	a_e Ms	5.3
WERD	149.72		PKPbc	21:18:53.095		244.1		3.02		TAS				m_e	
WERN	149.69		PKPbc	21:18:53.296		244.1		3.02		TAS				m_e	
WET	149.49		L	22:20:32.445						T__		240.9	19.80	a_e Ms	5.0