

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

(produced by SZO/BGR - HANNOVER)

April 2020      UPDATED 13.December 2021

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

Event	Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
401002 Qinghai, China	2020/04/01	12:23:39.78			34.3210	98.2010				33.0			29		60.84	65.91	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	401008
Ms	5.4		BGR	401008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	62.31		P	12:33:57.232	0.5	68.1		6.67		TAS		10.2	1.03	m_e mb	5.0
BFO	65.17		P	12:34:16.010		68.1		6.67		TAS		47.3	1.46	m_e mb	5.5
BRG	60.84		P	12:33:47.993	-0.2	68.1		6.67		TAS		23.2	1.01	m_e mb	5.0
BSEG	61.87		P	12:33:54.766	0.3	68.1		6.67		TAS		23.4	0.98	m_e mb	5.4
BUG	64.53		P	12:34:12.518		68.1		6.67		TAS		35.2	1.29	m_e mb	5.4
CLL	61.25		P	12:33:50.715	0.3	68.1		6.67		TAS		21.7	1.26	m_e mb	4.8
CLZ	62.59		P	12:33:59.859	-0.1	68.1		6.67		TAS		50.3	1.24	m_e mb	5.5
FLT1	61.92		P	12:33:55.361	-0.5	68.1		6.67		TAS		21.1	1.03	m_e mb	5.3
FUR	63.43		P	12:34:05.329	0.1	68.1		6.67		TAS		65.5	0.97	m_e mb	5.7
GEC2	61.68		P	12:33:53.494	0.3	68.1		6.67		TAS		13.7	0.96	m_e mb	5.2
GOR1	61.65		P	12:33:52.923	-0.4	68.1		6.67		TAS		56.1	1.20	m_e mb	5.7
GRA1	62.89		P	12:34:02.001	0.4	68.1		6.67		TAS		99.9	1.52	m_e mb	5.7
GRA1	62.89		L	13:02:23.254						T__		2389.2	21.10	a_e Ms	5.3
IBBN	63.91		P	12:34:08.035	-0.5	68.1		6.67		TAS		71.9	1.46	m_e mb	5.7
KAST	63.96		P	12:34:09.342		68.1		6.67		TAS		28.0	1.57	m_e mb	5.2
LESA	62.84		P	12:34:00.814	0.6	68.1		6.67		TAS		39.6	0.88	m_e mb	5.5
MOTA	63.86		P	12:34:07.710		68.1		6.67		TAS		44.4	1.30	m_e mb	5.5
MOX	62.30		P	12:33:57.745	0.0	68.1		6.67		TAS		22.0	1.16	m_e mb	5.3
MOX	62.30		L	13:02:24.566						T__		2401.5	18.40	a_e Ms	5.4
NEUB	62.01		P	12:33:55.013	-0.0	68.1		6.67		TAS		69.6	1.30	m_e mb	5.7

PLN	62.03	P	12:33:56.272	0.3	68.1	6.67	TAS	7.2	1.20	m_e	mb	4.8
RETA	64.01	P	12:34:09.511		68.1	6.67	TAS	40.2	1.45	m_e	mb	5.4
RETH	62.84	P	12:34:00.773	-0.3	68.1	6.67	TAS	47.2	1.50	m_e	mb	5.4
STU	64.47	P	12:34:12.789		68.1	6.67	TAS	112.9	1.16	m_e	mb	6.0
TANN	61.88	P	12:33:54.568	0.3	68.1	6.67	TAS	20.7	1.19	m_e	mb	5.2
TNS	64.33	P	12:34:11.408		68.1	6.67	TAS	12.3	0.92	m_e	mb	5.1
UBBA	63.19	P	12:34:04.170	0.5	68.1	6.67	TAS	58.3	1.71	m_e	mb	5.4
UBR	64.34	P	12:34:12.097		68.1	6.67	TAS	43.8	1.49	m_e	mb	5.5
WET	62.08	P	12:33:56.577	-0.4	68.1	6.67	TAS	16.6	1.11	m_e	mb	5.2
WLF	65.91	P	12:34:21.391		68.1	6.67	TAS	58.3	1.10	m_e	mb	5.7
WTTA		P	12:34:05.912	-0.9	68.1	6.67	TAS	50.6	1.40	m_e	mb	5.6

Event 402003 Off coast of central America

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/02	10:15:40.12			11.9440	-88.3910				30.0	1.1		30		83.91	90.55	m i ke	BGR
402009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	402009
Ms	4.5		BGR	402009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	90.55		P	10:28:38.506		284.7		4.82		TAS		8.4	1.06	m_e	mb	5.0
BFO	85.59		P	10:28:14.621	0.4	284.7		4.82		TAS		13.1	1.04	m_e	mb	5.0
BFO	85.59		pP	10:28:23.482		285.0		4.96		TAS				m_e		
BIOA	89.20		P	10:28:32.533		284.7		4.82		TAS		8.7	1.06	m_e	mb	4.9
BRG	88.45		P	10:28:28.553		284.7		4.82		TAS		9.3	1.06	m_e	mb	5.0
BSEG	85.49		P	10:28:14.169	-0.4	284.7		4.82		TAS		8.6	1.05	m_e	mb	4.8
BUG	84.25		P	10:28:08.180	-0.3	284.7		4.82		TAS		15.7	0.99	m_e	mb	5.2
CLL	87.76		P	10:28:25.576	-0.5	284.7		4.82		TAS		14.5	1.04	m_e	mb	5.2
CLZ	86.04		P	10:28:17.793	0.1	284.7		4.82		TAS		15.3	0.99	m_e	mb	5.1
DAVA	86.85		pP	10:28:30.208		285.0		4.96		TAS				m_e		
FLT1	86.43		P	10:28:18.578	-0.2	284.7		4.82		TAS				m_e		
FUR	87.54		P	10:28:24.914	0.1	284.7		4.82		TAS		12.7	0.55	m_e	mb	5.5
GEC2	88.90		P	10:28:31.159		284.7		4.82		TAS		20.7	1.39	m_e	mb	5.2
GOR1	86.30		P	10:28:19.102	0.4	284.7		4.82		TAS		10.1	0.55	m_e	mb	5.2
GRA1	87.11		P	10:28:22.960	0.1	284.7		4.82		TAS		25.8	0.96	m_e	mb	5.3
GRA1	87.11		L	11:01:58.214						T__		232.0	21.30	a_e	Ms	4.6
GTTG	85.86		P	10:28:16.800	0.6	284.7		4.82		TAS		13.7	0.75	m_e	mb	5.2
IBBN	84.36		P	10:28:08.785	-0.1	284.7		4.82		TAS		21.7	1.04	m_e	mb	5.3
IBBN	84.36		pP	10:28:17.704	-0.1	285.0		4.96		TAS				m_e		
KAST	85.00		P	10:28:12.115	0.2	284.7		4.82		TAS		10.3	0.99	m_e	mb	5.0
KBA	89.18		P	10:28:32.262		284.7		4.82		TAS		17.7	1.31	m_e	mb	5.1
MOA	89.55		P	10:28:33.813		284.7		4.82		TAS		10.9	1.17	m_e	mb	5.0
MOX	87.10		P	10:28:22.682	0.4	284.7		4.82		TAS		19.0	1.13	m_e	mb	5.1



WET	21.70	P	18:20:27.559	-1.3	119.2	9.97	TAS	22.9	0.99	m_e	mb	4.6
WLF	25.89	P	18:21:08.954		119.2	9.97	TAS	18.4	0.80	m_e	mb	4.8

Event 404001 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/04	06:18:34.88			55.9120	166.0290				33.0			31		67.66	74.82	m i ke	BGR
OrigID 404007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	404007
Ms	5.0		BGR	404007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	70.41		P	06:29:43.808	0.3	14.5		5.97		TAS		67.7	1.42	a_e	mb	5.6
BFO	74.46		P	06:30:07.308	-0.1	14.5		5.97		TAS		19.9	0.83	a_e	mb	5.2
BRG	71.09		P	06:29:47.458	0.0	14.5		5.97		TAS		30.4	1.19	a_e	mb	5.3
BSEG	68.72		P	06:29:33.608	0.3	14.5		5.97		TAS		30.1	1.15	a_e	mb	5.4
BUG	71.58		P	06:29:50.408	-0.5	14.5		5.97		TAS		57.4	1.26	a_e	mb	5.6
CLL	70.83		P	06:29:45.758	0.2	14.5		5.97		TAS		135.1	1.80	a_e	mb	5.8
CLZ	70.74		P	06:29:45.958	0.1	14.5		5.97		TAS		70.2	1.22	a_e	mb	5.7
FLT1	70.13		P	06:29:41.458	0.1	14.5		5.97		TAS		120.7	1.97	a_e	mb	5.7
FUR	74.16		P	06:30:06.008	0.2	14.5		5.97		TAS		46.7	1.11	a_e	mb	5.4
GEC2	73.08		P	06:29:59.663		14.5		5.97		TAS		31.3	1.12	m_e	mb	5.3
GOR1	69.48		P	06:29:38.408	0.1	14.5		5.97		TAS		148.5	1.65	a_e	mb	6.0
GRA1	72.69		P	06:29:57.758	0.4	14.5		5.97		TAS		89.3	1.29	a_e	mb	5.7
GRA1	72.69		L	07:04:27.514						T__		770.5	20.40	a_e	Ms	5.0
GTTG	71.09		P	06:29:47.858	-0.1	14.5		5.97		TAS		22.4	0.99	a_e	mb	5.2
IBBN	70.66		P	06:29:45.258	-0.6	14.5		5.97		TAS		52.9	0.94	a_e	mb	5.7
KAST	71.65		P	06:29:51.208	-0.2	14.5		5.97		TAS		55.3	1.49	a_e	mb	5.5
MANZ	72.26		P	06:29:54.708	0.3	14.5		5.97		TAS		10.0	1.25	a_e	mb	4.8
MOX	71.70		P	06:29:51.458	0.1	14.5		5.97		TAS		33.9	1.12	a_e	mb	5.4
MOX	71.70		L	07:04:08.364						T__		900.0	19.90	a_e	Ms	5.0
NEUB	71.15		P	06:29:47.858	-0.3	14.5		5.97		TAS		23.4	0.98	a_e	mb	5.3
PLN	71.77		P	06:29:51.958	0.2	14.5		5.97		TAS		23.1	1.45	a_e	mb	5.1
RETH	70.02		P	06:29:41.408	-0.2	14.5		5.97		TAS		110.9	1.75	a_e	mb	5.7
RJOB	74.31		P	06:30:07.208	-0.2	14.5		5.97		TAS		31.7	1.00	a_e	mb	5.3
ROTZ	72.45		P	06:29:56.208	0.2	14.5		5.97		TAS		45.4	1.91	m_e	mb	5.3
RUE	69.57		P	06:29:38.508	0.2	14.5		5.97		TAS		71.0	1.27	a_e	mb	5.7
STU	73.91		P	06:30:04.058	-0.6	14.5		5.97		TAS		47.6	0.91	a_e	mb	5.5
TANN	71.79		P	06:29:52.158	0.0	14.5		5.97		TAS		121.6	1.88	a_e	mb	5.7
TNS	72.60		P	06:29:56.758	-0.0	14.5		5.97		TAS		20.7	0.93	a_e	mb	5.2
UBBA	71.79		P	06:29:51.958	0.0	14.5		5.97		TAS		93.4	1.65	a_e	mb	5.7
UBR	74.82		P	06:30:09.808		14.5		5.97		TAS		62.4	1.32	a_e	mb	5.5
WET	72.94		P	06:29:59.208	0.1	14.5		5.97		TAS		90.4	1.47	a_e	mb	5.7

WLF 73.46 P 06:30:01.958 0.4 14.5 5.97 TAS 37.8 1.34 a\_e mb 5.3

Event 404002 Tonga Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2020/04/04 09:24:23.65 -19.5000 -173.2900 37.3 5.9 18 145.52 151.75 m i ke BGR
404008

Magnitude Err Nsta Author OrigID

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Rows include station data for ASSE, BFO, BRG, BSEG, CLL, FLT1, FUR, GEC2, KAST, MANZ, MOX, RJOB, ROTZ, TANN, TNS, UBR, WET, WLF.

Event 405005 India-Bangladesh border region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2020/04/05 17:50:29.72 25.8500 92.1500 33.0 12 63.12 68.25 m i ke BGR

405011

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	405011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	63.12		P	18:00:54.269	0.2	79.5		6.46		TAS		2.9	0.69	m_e	mb	4.5
BSEG	64.82		P	18:01:05.676		79.5		6.46		TAS		4.4	0.80	m_e	mb	4.7
CLZ	65.16		P	18:01:07.773		79.5		6.46		TAS		7.3	0.76	m_e	mb	5.0
GEC2	63.59		P	18:00:57.981	-0.2	79.5		6.46		TAS		6.6	0.84	m_e	mb	4.9
RJOB	64.39		P	18:01:02.737	-0.5	79.5		6.46		TAS		6.3	0.86	m_e	mb	4.9
ROTZ	64.40		P	18:01:03.395	0.0	79.5		6.46		TAS		2.0	0.82	m_e	mb	4.4
STU	66.53		P	18:01:16.722		79.5		6.46		TAS		19.2	0.78	m_e	mb	5.4
TANN	64.12		P	18:01:01.025	0.2	79.5		6.46		TAS		2.3	0.83	m_e	mb	4.4
TNS	66.68		P	18:01:17.573		79.5		6.46		TAS		5.8	0.83	m_e	mb	4.8
UBR	66.18		P	18:01:13.812		79.5		6.46		TAS		5.3	0.83	m_e	mb	4.8
WET	64.08		P	18:01:01.050	0.4	79.5		6.46		TAS		3.4	0.83	m_e	mb	4.6
WLF	68.25		P	18:01:28.154		79.5		6.46		TAS		9.6	0.86	m_e	mb	5.0

Event 405006 Northern Molucca Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/05	18:37:11.70		1.4400	126.4100					50.0			13		102.45	106.38	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	102.87		Pdiff	18:51:03.538	-0.2					T__				m_e	
CLL	103.29		Pdiff	18:51:05.967	0.2					T__				m_e	
CLZ	104.64		Pdiff	18:51:13.068						T__				m_e	
FLT1	103.96		Pdiff	18:51:09.132	-0.2					T__				m_e	
GEC2	103.66		Pdiff	18:51:08.534	-0.2					T__				m_e	
KAST	106.01		Pdiff	18:51:18.677						T__				m_e	
MOX	104.34		Pdiff	18:51:11.358						T__				m_e	
RJOB	104.59		Pdiff	18:51:12.648						T__				m_e	
ROTZ	104.29		Pdiff	18:51:11.362						T__				m_e	
RUE	102.45		Pdiff	18:51:02.855	-0.5					T__				m_e	
TANN	103.91		Pdiff	18:51:09.248	0.4					T__				m_e	
TNS	106.38		Pdiff	18:51:23.719						T__				m_e	
WET	104.08		Pdiff	18:51:10.809	-1.4					T__				m_e	

Event 406006 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/06	18:02:04.31			-21.8400	-173.8400				74.2	2.0		16		147.80	154.02	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	153.51		PKPbc	18:21:54.447		10.0		2.38		TAS				m_e	
BRG	150.39		PKPbc	18:21:46.955	-0.0	10.0		2.38		TAS				m_e	
BSEG	147.80		PKPbc	18:21:40.635	-0.1	10.0		2.38		TAS				m_e	
BSEG	147.80		pPKPbc	18:22:01.538						T__				m_e	
CLL	150.11		PKPbc	18:21:46.193	-0.1	10.0		2.38		TAS				m_e	
CLL	150.11		pPKPbc	18:22:07.149						T__				m_e	
FLT1	149.31		PKPbc	18:21:44.149	-0.3	10.0		2.38		TAS				m_e	
FLT1	149.31		pPKPbc	18:22:05.259						T__				m_e	
GEC2	152.39		PKPbc	18:21:51.312		10.0		2.38		TAS				m_e	
GTTG	150.20		PKPbc	18:21:47.223	0.3	10.0		2.38		TAS				m_e	
KAST	150.64		PKPbc	18:21:47.360	-0.0	10.0		2.38		TAS				m_e	
MANZ	151.52		PKPbc	18:21:49.853		10.0		2.38		TAS				m_e	
MOX	150.93		PKPbc	18:21:48.334		10.0		2.38		TAS				m_e	
MOX	150.93		pPKPbc	18:22:09.200						T__				m_e	
NEUB	150.38		PKPbc	18:21:47.206	-0.5	10.0		2.38		TAS				m_e	
NEUB	150.38		pPKPbc	18:22:08.720						T__				m_e	
RJOB	153.62		PKPbc	18:21:54.713		10.0		2.38		TAS				m_e	
ROTZ	151.72		PKPbc	18:21:50.489		10.0		2.38		TAS				m_e	
TANN	151.05		PKPbc	18:21:48.799		10.0		2.38		TAS				m_e	
TANN	151.05		pPKPbc	18:22:09.560						T__				m_e	
TNS	151.62		PKPbc	18:21:49.873		10.0		2.38		TAS				m_e	
UBR	154.02		PKPbc	18:21:55.605		10.0		2.38		TAS				m_e	

Event 407001 Windward Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/07	03:26:52.63			11.3870	-61.0600				33.0			9		66.68	71.79	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	407007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	71.79		P	03:38:12.002		263.9		6.15		TAS		3.0	0.81	m_e mb	4.5
CLL	71.23		P	03:38:08.652		263.9		6.15		TAS		3.1	0.73	m_e mb	4.5
CLZ	69.66		P	03:37:59.425		263.9		6.15		TAS		4.3	0.73	m_e mb	4.7
FLT1	70.25		P	03:38:02.239		263.9		6.15		TAS		5.1	0.66	m_e mb	4.8
GEC2	71.49		P	03:38:10.132		263.9		6.15		TAS		3.9	0.81	m_e mb	4.6

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IBBN	68.14	P	03:37:49.539	-0.0	263.9	6.15	TAS	7.2	0.80	m_e	mb	5.0
MANZ	70.54	P	03:38:04.243		263.9	6.15	TAS	0.8	0.88	m_e	mb	3.9
STU	68.51	P	03:37:51.315		263.9	6.15	TAS	31.0	0.88	m_e	mb	5.5
TANN	70.81	P	03:38:06.112		263.9	6.15	TAS			m_e		
TNS	68.23	P	03:37:50.279		263.9	6.15	TAS	8.0	0.70	m_e	mb	5.1
UBR	68.99	P	03:37:55.200		263.9	6.15	TAS	6.7	0.93	m_e	mb	4.9
WET	70.97	P	03:38:07.017		263.9	6.15	TAS	2.6	0.83	m_e	mb	4.4
WLF	66.68	P	03:37:40.520		263.9	6.15	TAS	6.9	0.96	m_e	mb	4.9

Event 407008 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/07	11:29:19.91			-18.1040	175.5670				10.0			23		142.46	148.11	m i ke	BGR
	407014																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	144.02		PKPab	11:48:50.864	0.2	27.3		4.37		TAS				m_e	
BFO	148.11		PKPab	11:49:08.577		27.3		4.37		TAS				m_e	
BRG	144.18		PKPab	11:48:51.259	0.3	27.3		4.37		TAS				m_e	
BSEG	142.46		PKPab	11:48:44.173	-0.2	27.3		4.37		TAS				m_e	
CLL	144.10		PKPab	11:48:50.969	-0.4	27.3		4.37		TAS				m_e	
CLZ	144.36		PKPab	11:48:52.602	-0.1	27.3		4.37		TAS				m_e	
FLT1	143.69		PKPab	11:48:49.117	-0.0	27.3		4.37		TAS				m_e	
FUR	147.40		PKPab	11:49:05.711		27.3		4.37		TAS				m_e	
GEC2	145.99		PKPab	11:48:58.681		27.3		4.37		TAS				m_e	
GRA1	146.06		PKPab	11:48:59.966		27.3		4.37		TAS				m_e	
GTTG	144.74		PKPab	11:48:53.882	0.1	27.3		4.37		TAS				m_e	
IBBN	144.55		PKPab	11:48:53.263	-0.0	27.3		4.37		TAS				m_e	
KAST	145.43		PKPab	11:48:56.681	-0.1	27.3		4.37		TAS				m_e	
MANZ	145.53		PKPab	11:48:57.575	-0.8	27.3		4.37		TAS				m_e	
MOX	145.10		PKPab	11:48:55.523	0.4	27.3		4.37		TAS				m_e	
NEUB	144.56		PKPab	11:48:53.233	-0.1	27.3		4.37		TAS				m_e	
ROTZ	145.69		PKPab	11:48:58.477	-0.0	27.3		4.37		TAS				m_e	
RUE	142.84		PKPab	11:48:45.440	0.1	27.3		4.37		TAS				m_e	
TANN	145.05		PKPab	11:48:55.013	-0.2	27.3		4.37		TAS				m_e	
TNS	146.33		PKPab	11:49:00.852	0.3	27.3		4.37		TAS				m_e	
UBBA	145.39		PKPab	11:48:56.776	0.5	27.3		4.37		TAS				m_e	
WET	146.02		PKPab	11:48:59.251		27.3		4.37		TAS				m_e	
WLF	147.38		PKPab	11:49:05.752		27.3		4.37		TAS				m_e	

Event 407009 Tonga Islands



Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/07	11:32:05.73			-15.9010	-173.4200				10.0			12		145.11	147.63	m i ke	BGR
	407015																

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.63		PKPbc	11:51:49.472		8.0		3.17		TAS				m_e	
FUR	147.60		PKPbc	11:51:49.600		8.0		3.17		TAS				m_e	
GEC2	146.63		PKPbc	11:51:46.024		8.0		3.17		TAS				m_e	
GRA1	146.09		PKPbc	11:51:45.030		8.0		3.17		TAS				m_e	
MANZ	145.71		PKPbc	11:51:43.687		8.0		3.17		TAS				m_e	
MOX	145.11		PKPbc	11:51:41.492		8.0		3.17		TAS				m_e	
ROTZ	145.91		PKPbc	11:51:44.061		8.0		3.17		TAS				m_e	
STU	147.15		PKPbc	11:51:48.879		8.0		3.17		TAS				m_e	
TANN	145.25		PKPbc	11:51:42.499		8.0		3.17		TAS				m_e	
TNS	145.73		PKPbc	11:51:43.183		8.0		3.17		TAS				m_e	
WET	146.45		PKPbc	11:51:45.562		8.0		3.17		TAS				m_e	
WLF	146.32		PKPbc	11:51:45.733		8.0		3.17		TAS				m_e	

Event 407010 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/07	19:43:45.95			-17.2960	-177.1210				613.0			24		142.98	149.12	m i ke	BGR
	407016																

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.73		PKPbc	20:02:25.224		14.7		2.76		TAS				a_e	
BRG	145.35		PKPbc	20:02:16.454	0.4	14.7		2.76		TAS				m_e	
BSEG	142.98		PKPbc	20:02:09.132	0.2	14.7		2.76		TAS				m_e	
CLL	145.12		PKPbc	20:02:15.624	-0.2	14.7		2.76		TAS				a_e	
CLZ	145.02		PKPbc	20:02:15.774	0.1	14.7		2.76		TAS				a_e	
FLT1	144.43		PKPbc	20:02:13.230	0.5	14.7		2.76		TAS				m_e	
FUR	148.46		PKPbc	20:02:24.474		14.7		2.76		TAS				a_e	
GEC2	147.32		PKPbc	20:02:21.768	-0.2	14.7		2.76		TAS				m_e	
GTTG	145.37		PKPbc	20:02:16.796	0.2	14.7		2.76		TAS				m_e	
HLG	142.98		PKPbc	20:02:09.324	-0.6	14.7		2.76		TAS				a_e	
IBBN	144.85		PKPbc	20:02:15.244	0.5	14.7		2.76		TAS				m_e	
KAST	145.88		PKPbc	20:02:17.924	0.2	14.7		2.76		TAS				a_e	
MANZ	146.55		PKPbc	20:02:19.862	0.0	14.7		2.76		TAS				m_e	
MOX	146.00		PKPbc	20:02:18.224	0.3	14.7		2.76		TAS				a_e	
NEUB	145.44		PKPbc	20:02:16.648	0.3	14.7		2.76		TAS				m_e	
RJOB	148.57		PKPbc	20:02:24.524		14.7		2.76		TAS				a_e	

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ROTZ	146.74	PKPbc	20:02:20.324	-0.1	14.7	2.76	TAS	m_e
STU	148.19	PKPbc	20:02:23.924		14.7	2.76	TAS	a_e
TANN	146.08	PKPbc	20:02:18.474	0.4	14.7	2.76	TAS	a_e
TNS	146.85	PKPbc	20:02:20.815	-0.1	14.7	2.76	TAS	m_e
UBBA	146.07	PKPbc	20:02:18.058	0.3	14.7	2.76	TAS	m_e
UBR	149.12	PKPbc	20:02:26.385		14.7	2.76	TAS	m_e
WET	147.21	PKPbc	20:02:21.324	-0.6	14.7	2.76	TAS	a_e
WLF	147.60	PKPbc	20:02:23.174	-0.4	14.7	2.76	TAS	a_e

Event 408001 Greece-Albania border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/08	04:30:03.06	0.67	1.22	39.7690	20.6040	25.6	11.1	48	10.0				19 314	8.06	12.28	m i ke	BGR
OrigID 408007																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.1		BGR	408007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	8.34		Pn	04:31:59.408	-1.9					T__					m_e
BERGE	12.08		Pn	04:32:50.732	-0.9					T__					m_e
BFO	12.28		Sn	04:35:00.980	1.5					T__					m_e
BFO	12.28		Pn	04:32:52.624	-1.7					T__					m_e
BIOA			Pn	04:32:16.247	0.8					T__					m_e
DAVA	10.81		Sn	04:34:23.066	-2.1					T__					m_e
DAVA	10.81		Pn	04:32:36.520	1.9					T__					m_e
FETA			Pn	04:32:26.527	0.1					T__					m_e
LESA			Sn	04:33:56.517	0.3					T__					m_e
LESA			Pn	04:32:16.809	-1.1					T__					m_e
MOA	9.28		Sn	04:33:49.075	-0.5					T__					m_e
MOA	9.28		Pn	04:32:15.002	0.9					T__					m_e
MOTA			Sn	04:34:11.386	-0.4					T__					m_e
MOTA			Pn	04:32:26.759	-0.1					T__					m_e
NIE			Pn	04:32:20.488	1.5					T__					m_e
OBKA	8.06		Sn	04:33:19.315	-1.7					T__					m_e
OBKA	8.06		Pn	04:31:56.426	-1.2					T__					m_e ML
PLONS	10.93		Sn	04:34:28.898	1.0					T__					m_e
PLONS	10.93		Pn	04:32:38.492	2.3					T__					m_e
RETA			Pn	04:32:30.749	0.3					T__					m_e
RJOB	9.76		Sn	04:34:02.300	1.6					T__					m_e
RJOB	9.76		Pn	04:32:20.130	-0.3					T__					m_e
RONF			Pn	04:33:01.360	-0.3					T__					m_e
SQTA			Sn	04:34:09.139	0.6					T__					m_e
SQTA			Pn	04:32:25.202	0.2					T__					m_e
WALHA	11.51		Pn	04:32:43.285	-0.6					T__					m_e
WTTA	9.92		Sn	04:34:02.570	-1.9					T__					m_e

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WTTA	9.92	Pn	04:32:22.310	-0.3	T__	m_e
ZUGS		Sn	04:34:16.124	1.8	T__	m_e
ZUGS		Pn	04:32:28.244	-0.1	T__	m_e

Event 408011 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/08	05:55:55.73			26.9600	126.6320				131.1			18		82.49	87.22	m i ke	BGR
OrigID 408017																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	408017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	86.94		P	06:08:25.267		54.0		5.03		TAS		4.3	0.96	m_e mb	4.5
BFO	86.94		pP	06:08:57.868						T__				m_e	
BRG	82.49		P	06:08:02.558	-0.8	54.0		5.03		TAS		4.8	0.80	m_e mb	4.7
BSEG	82.55		P	06:08:03.594	-0.7	54.0		5.03		TAS		4.6	0.92	m_e mb	4.7
BUG	85.54		pP	06:08:52.025						T__				m_e	
CLL	82.73		P	06:08:03.411	0.3	54.0		5.03		TAS		7.8	1.07	m_e mb	4.9
CLZ	83.76		P	06:08:09.641	0.1	54.0		5.03		TAS		23.5	1.09	m_e mb	5.3
FLT1	83.04		P	06:08:05.034	0.1	54.0		5.03		TAS		5.9	0.88	m_e mb	4.8
GEC2	83.75		P	06:08:09.459	0.2	54.0		5.03		TAS		4.6	0.95	m_e mb	4.7
GEC2	83.75		pP	06:08:42.664						T__				m_e	
GTTG	84.14		P	06:08:11.470		54.0		5.03		TAS		6.6	0.80	m_e mb	4.9
IBBN	84.76		P	06:08:14.396		54.0		5.03		TAS		16.7	0.92	m_e mb	5.3
KAST	85.12		P	06:08:15.949		54.0		5.03		TAS		6.8	1.10	m_e mb	4.8
MANZ	83.96		P	06:08:11.016	-0.4	54.0		5.03		TAS		1.2	0.88	m_e mb	4.1
MOX	83.83		P	06:08:09.985	-0.2	54.0		5.03		TAS		3.2	0.91	m_e mb	4.5
RJOB	84.88		P	06:08:15.161		54.0		5.03		TAS		6.9	0.83	m_e mb	4.9
ROTZ	84.03		P	06:08:10.339	-0.1	54.0		5.03		TAS		2.3	1.01	m_e mb	4.3
TANN	83.53		P	06:08:08.768	0.2	54.0		5.03		TAS		4.3	0.97	m_e mb	4.7
UBBA	84.56		P	06:08:13.212		54.0		5.03		TAS		3.0	0.73	m_e mb	4.6
UBR	86.39		P	06:08:22.186		54.0		5.03		TAS				m_e	
UBR	86.39		pP	06:08:55.620						T__				m_e	
WET	84.03		P	06:08:10.973		54.0		5.03		TAS		24.2	1.69	m_e mb	5.2
WLF	87.22		P	06:08:26.505		54.0		5.03		TAS		3.7	0.73	m_e mb	4.6

Event 408012 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/08	10:02:34.61			-15.3450	-177.0510				427.5			22		141.06	147.22	m i ke	BGR
OrigID 408018																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	142.79		PKPbc	10:21:13.307	0.2	14.0		3.26		TAS				m_e		
BFO	146.81		PKPbc	10:21:26.754		14.0		3.26		TAS				m_e		
BFO	146.81		pPKPbc	10:23:07.682						T__				m_e		
BSEG	141.06		PKPbc	10:21:07.721	-0.4	14.0		3.26		TAS				m_e		
BUG	143.83		PKPbc	10:21:17.255	0.3	14.0		3.26		TAS				m_e		
CLL	143.23		PKPbc	10:21:14.851	-0.4	14.0		3.26		TAS				m_e		
CLZ	143.11		PKPbc	10:21:14.848	-0.1	14.0		3.26		TAS				m_e		
FLT1	142.52		PKPbc	10:21:13.532	-0.3	14.0		3.26		TAS				m_e		
FUR	146.56		PKPbc	10:21:25.902		14.0		3.26		TAS				m_e		
GEC2	145.45		PKPbc	10:21:22.640	-0.4	14.0		3.26		TAS				m_e		
GEC2	145.45		pPKPbc	10:23:04.324						T__				m_e		
GRA1	145.09		PKPbc	10:21:21.547	-0.2	14.0		3.26		TAS				m_e		
GTTG	143.45		PKPbc	10:21:16.029	-0.2	14.0		3.26		TAS				m_e		
KAST	143.96		PKPbc	10:21:17.289	0.2	14.0		3.26		TAS				m_e		
MANZ	144.66		PKPbc	10:21:19.685	0.3	14.0		3.26		TAS				m_e		
MOX	144.10		PKPbc	10:21:17.761	0.4	14.0		3.26		TAS				m_e		
NEUB	143.54		PKPbc	10:21:16.060	-0.1	14.0		3.26		TAS				m_e		
RJOB	146.69		PKPbc	10:21:26.248		14.0		3.26		TAS				m_e		
RJOB	146.69		pPKPbc	10:23:07.784						T__				m_e		
ROTZ	144.85		PKPbc	10:21:20.695	0.1	14.0		3.26		TAS				m_e		
STU	146.28		PKPbc	10:21:25.212		14.0		3.26		TAS				m_e		
TANN	144.18		PKPbc	10:21:18.272	0.2	14.0		3.26		TAS				m_e		
TNS	144.93		PKPbc	10:21:20.988	-0.1	14.0		3.26		TAS				m_e		
UBR	147.22		PKPbc	10:21:27.671		14.0		3.26		TAS				m_e		
UBR	147.22		pPKPbc	10:23:08.438						T__				m_e		
WLF	145.67		PKPbc	10:21:23.750		14.0		3.26		TAS				m_e		
WLF	145.67		pPKPbc	10:23:05.644						T__				m_e		

Event 409006 Northern Mid-Atlantic Ridge  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/09 12:20:32.67 24.3800 -46.1800 19.7 24 47.62 52.85 m i ke BGR  
 409012

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	409012
Ms	4.0		BGR	409012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	50.91		P	12:29:34.225	-0.1	261.1		7.54		TAS		64.3	1.76	m_e mb	5.3
BFO	48.78		P	12:29:17.465		261.1		7.54		TAS		34.5	1.24	m_e mb	5.2
BRG	52.74		P	12:29:47.487	0.0	261.1		7.54		TAS		14.4	1.24	m_e mb	4.8

BSEG	51.05	P	12:29:34.662	-0.1	261.1	7.54	TAS	58.6	1.89	m_e	mb	5.2
CLL	52.21	P	12:29:43.301	-0.1	261.1	7.54	TAS	18.1	1.28	m_e	mb	4.8
CLZ	50.67	P	12:29:32.063	-0.2	261.1	7.54	TAS	19.1	1.31	m_e	mb	4.9
FLT1	51.28	P	12:29:36.333	-0.4	261.1	7.54	TAS	33.3	1.55	m_e	mb	5.0
GEC2	52.38	P	12:29:44.860		261.1	7.54	TAS	32.3	1.33	m_e	mb	5.1
GEC2	52.38	pP	12:29:50.225				T__				m_e	
GRA1	50.86	P	12:29:33.440		261.1	7.54	TAS	12.0	0.80	m_e	mb	4.9
GRA1	50.86	L	12:46:23.283				T__	135.6	20.90	a_e	Ms	3.9
IBBN	49.19	P	12:29:20.658	0.0	261.1	7.54	TAS	21.9	1.18	m_e	mb	5.1
KAST	49.35	P	12:29:22.018	0.0	261.1	7.54	TAS	21.0	1.76	m_e	mb	4.9
MANZ	51.47	P	12:29:38.048	-0.3	261.1	7.54	TAS	12.0	2.06	m_e	mb	4.5
MOX	51.25	P	12:29:36.245	-0.5	261.1	7.54	TAS	14.2	1.29	m_e	mb	4.7
MOX	51.25	L	12:46:48.428				T__	217.9	21.80	a_e	Ms	4.1
PLN	51.57	P	12:29:38.697	0.0	261.1	7.54	TAS	7.3	1.64	m_e	mb	4.3
RETH	50.24	P	12:29:29.011	-0.2	261.1	7.54	TAS	19.1	1.37	m_e	mb	4.8
ROTZ	51.51	P	12:29:38.154	-0.0	261.1	7.54	TAS	3.8	1.32	m_e	mb	4.2
RUE	52.85	P	12:29:48.310	0.5	261.1	7.54	TAS	20.9	0.84	m_e	mb	5.1
STU	49.41	P	12:29:22.050		261.1	7.54	TAS	36.5	0.83	m_e	mb	5.5
TANN	51.75	P	12:29:40.193	0.0	261.1	7.54	TAS	5.9	1.11	m_e	mb	4.4
TNS	49.18	P	12:29:21.128	0.2	261.1	7.54	TAS	21.5	1.20	m_e	mb	5.0
UBBA	50.26	P	12:29:28.769	-0.1	261.1	7.54	TAS	27.8	1.75	m_e	mb	4.9
UBR	49.87	P	12:29:26.232		261.1	7.54	TAS	26.7	1.14	m_e	mb	5.1
WET	51.87	P	12:29:40.905		261.1	7.54	TAS	24.1	1.41	m_e	mb	4.9
WLF	47.62	P	12:29:08.512	0.8	261.1	7.54	TAS	19.4	1.13	m_e	mb	5.1

Event 409007 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/09	17:26:42.66			-3.5880	66.8680				22.6	0.6		30		69.55	74.60	m i ke	BGR
	409013																

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	409013
Ms	4.1		BGR	409013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	72.94		P	17:38:11.328	0.2	119.7		6.03		TAS		94.9	1.80	a_e	mb	5.6
BFO	72.46		P	17:38:08.728	0.2	119.7		6.03		TAS		38.1	1.26	a_e	mb	5.4
BRG	70.54		P	17:37:57.228	0.2	119.7		6.03		TAS		28.4	1.42	a_e	mb	5.2
BRG	70.54		pP	17:38:03.553	0.0	119.8		6.02		TAS				m_e		
BSEG	74.03		P	17:38:17.478	-0.3	119.7		6.03		TAS		25.7	1.55	a_e	mb	5.0
BSEG	74.03		pP	17:38:23.906		119.8		6.02		TAS				m_e		
BUG	74.48		P	17:38:20.528	-0.3	119.7		6.03		TAS		40.6	1.35	a_e	mb	5.3
CLL	71.27		P	17:38:01.778	0.4	119.7		6.03		TAS		57.0	1.40	a_e	mb	5.5
CLL	71.27		pP	17:38:08.188	0.0	119.8		6.02		TAS				m_e		
CLZ	72.96		P	17:38:11.828	0.3	119.7		6.03		TAS		68.9	1.50	a_e	mb	5.6





BRG	85.54	P	16:57:14.346	-0.1	61.5	4.76	TAS	349.9	1.68	m_e	MBB	6.3
BRG	85.54	pP	16:57:56.444	-0.4	61.5	4.80	TAS			m_e		
BRG	85.54	PP	17:00:36.506				T__			m_e		
BSEG	86.08	P	16:57:17.259	0.3	61.5	4.76	TAS	181.7	1.01	m_e	MBB	6.3
BSEG	86.08	pP	16:57:59.237	-0.6	61.5	4.80	TAS			m_e		
BSEG	86.08	PP	17:00:40.340				T__			m_e		
BUG	88.94	P	16:57:30.406	-0.2	61.5	4.76	TAS	192.4	1.13	m_e	MBB	6.4
BUG	88.94	pP	16:58:12.644	-0.1	61.5	4.80	TAS			m_e		
BUG	88.94	PP	17:01:03.510				T__			m_e		
CLL	85.87	P	16:57:15.613	-0.4	61.5	4.76	TAS	165.0	1.18	m_e	MBB	6.3
CLL	85.87	pP	16:57:57.730	0.3	61.5	4.80	TAS			m_e		
CLZ	87.07	P	16:57:21.996	0.3	61.5	4.76	TAS	359.8	1.50	m_e	MBB	6.5
CLZ	87.07	pP	16:58:04.128	0.1	61.5	4.80	TAS			m_e		
FLT1	86.37	P	16:57:17.904	-0.5	61.5	4.76	TAS	163.0	1.10	m_e	MBB	6.4
FLT1	86.37	pP	16:57:59.940	0.1	61.5	4.80	TAS			m_e		
FUR	88.33	P	16:57:28.064	0.3	61.5	4.76	TAS	124.0	1.02	m_e	MBB	6.5
FUR	88.33	pP	16:58:10.307	0.2	61.5	4.80	TAS			m_e		
GEC2	86.58	P	16:57:19.572	0.1	61.5	4.76	TAS	228.8	1.94	m_e	MBB	6.1
GEC2	86.58	pP	16:58:01.659	-0.1	61.5	4.80	TAS			m_e		
GOR1	86.01	P	16:57:16.980	0.3	61.5	4.76	TAS	647.3	1.29	m_e	MBB	6.8
GOR1	86.01	pP	16:57:59.108	0.1	61.5	4.80	TAS			m_e		
GRA1	87.63	P	16:57:24.642	0.2	61.5	4.76	TAS	199.6	1.77	m_e	mb	6.2
GRA1	87.63	pP	16:58:06.815	0.1	61.5	4.80	TAS			m_e		
GTTG	87.43	P	16:57:23.645	0.2	61.5	4.76	TAS	298.9	1.55	m_e	MBB	6.3
GTTG	87.43	pP	16:58:05.875	-0.1	61.5	4.80	TAS			m_e		
HLG	87.20	P	16:57:22.293	0.0	61.5	4.76	TAS	200.8	1.02	m_e	MBB	6.4
HLG	87.20	pP	16:58:04.529	0.2	61.5	4.80	TAS			m_e		
IBBN	88.23	P	16:57:27.284	0.0	61.5	4.76	TAS	188.1	0.91	m_e	MBB	6.7
IBBN	88.23	pP	16:58:09.401	0.4	61.5	4.80	TAS			m_e		
IBBN	88.23	PP	17:00:57.246				T__			m_e		
KAST	88.45	P	16:57:28.346	0.1	61.5	4.76	TAS	144.6	1.37	m_e	MBB	6.4
KAST	88.45	pP	16:58:10.653	0.1	61.5	4.80	TAS			m_e		
KAST	88.45	PP	17:00:58.414				T__			m_e		
MANZ	86.98	P	16:57:21.397	0.1	61.5	4.76	TAS	65.3	2.05	m_e	MBB	5.5
MANZ	86.98	pP	16:58:03.762	0.3	61.5	4.80	TAS			m_e		
MOX	86.95	P	16:57:21.117	-0.1	61.5	4.76	TAS	231.3	1.79	m_e	MBB	6.1
MOX	86.95	pP	16:58:03.185	0.3	61.5	4.80	TAS			m_e		
MOX	86.95	PP	17:00:46.827				T__			m_e		
NEUB	86.61	P	16:57:19.346	-0.2	61.5	4.76	TAS	277.9	1.43	m_e	MBB	6.4
NEUB	86.61	pP	16:58:01.455	-0.1	61.5	4.80	TAS			m_e		
PLN	86.72	P	16:57:20.057	-0.0	61.5	4.76	TAS	105.7	1.90	m_e	MBB	5.7
PLN	86.72	pP	16:58:02.179	-0.1	61.5	4.80	TAS			m_e		
RETH	87.17	P	16:57:22.266	0.1	61.5	4.76	TAS	202.6	1.27	m_e	MBB	6.4
RETH	87.17	pP	16:58:04.441	0.1	61.5	4.80	TAS			m_e		
RGN	84.24	P	16:57:08.099	-0.1	61.5	4.76	TAS	887.0	1.71	m_e	MBB	6.7
RJOB	87.62	P	16:57:24.503	0.1	61.5	4.76	TAS	31.0	0.92	m_e	MBB	6.1
RJOB	87.62	pP	16:58:06.490	0.2	61.5	4.80	TAS			m_e		
ROTZ	87.03	P	16:57:21.736	0.2	61.5	4.76	TAS	95.0	2.15	m_e	MBB	5.5
ROTZ	87.03	pP	16:58:03.983	0.3	61.5	4.80	TAS			m_e		



RUE	84.91	P	16:57:11.501	0.0	61.5	4.76	TAS	297.8	0.91	m_e	MBB	6.8
RUE	84.91	pP	16:57:53.299	-0.1	61.5	4.80	TAS			m_e		
STU	89.24	P	16:57:31.830	-0.2	61.5	4.76	TAS	201.1	1.25	m_e	MBB	6.4
STU	89.24	pP	16:58:14.247	-0.2	61.5	4.80	TAS			m_e		
TANN	86.58	P	16:57:19.388	-0.1	61.5	4.76	TAS	226.4	1.90	m_e	MBB	6.0
TANN	86.58	pP	16:58:01.448	-0.2	61.5	4.80	TAS			m_e		
TANN	86.58	PP	17:00:44.107				T__			m_e		
TNS	88.93	P	16:57:30.597	0.0	61.5	4.76	TAS	117.3	1.24	m_e	MBB	6.2
TNS	88.93	pP	16:58:12.867	-0.2	61.5	4.80	TAS			m_e		
UBBA	87.77	P	16:57:24.895	-0.2	61.5	4.76	TAS	150.6	1.56	m_e	MBB	6.3
UBBA	87.77	pP	16:58:07.313	-0.1	61.5	4.80	TAS			m_e		
UBR	89.25	P	16:57:32.001	-0.1	61.5	4.76	TAS	130.7	1.37	m_e	MBB	6.2
UBR	89.25	pP	16:58:14.187	-0.6	61.5	4.80	TAS			m_e		
UBR	89.25	PP	17:01:06.738				T__			m_e		
WET	86.93	P	16:57:21.287	0.2	61.5	4.76	TAS	155.1	1.90	m_e	MBB	6.1
WET	86.93	pP	16:58:03.443	-0.1	61.5	4.80	TAS			m_e		
WLF	90.48	P	16:57:38.328	0.3	61.5	4.76	TAS	270.6	1.05	m_e	MBB	6.6
WLF	90.48	pP	16:58:20.434		61.5	4.80	TAS			m_e		

Event 411001 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	03:19:19.20			28.0400	142.8200				10.0					91.46	91.46	m i ke	NEIC
	411096																

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	411007
Ms	4.8		BGR	411007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	91.46		P	03:32:25.131		41.4		4.18		TAS		3.5	0.99	m_e	mb	4.7
GRA1	91.46		L	04:23:20.244						T__		315.6	18.40	a_e	Ms	4.8

Event 411002 Crete, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	10:22:55.80			35.2200	26.1800				21.0					18.14	18.14	m i ke	EMSC
	411050																

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude		
GRA1	18.14		Pn	10:27:04.801						T__				m_e			

Event 411004 California-Nevada border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	14:36:39.23			38.4300	-119.7100				9.7			21		78.43	84.35	m i ke	BGR
OrigID 411010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	411010
Ms	5.2		BGR	411010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	82.07		P	14:49:00.111		323.3		5.29		TAS				m_e	
BRG	82.22		P	14:49:01.460		323.3		5.29		TAS		7.8	0.87	m_e mb	4.8
BRG	82.22		pP	14:49:04.275						T__				m_e	
BSEG	78.43		P	14:48:41.429	-0.3	323.3		5.29		TAS		11.0	1.36	m_e mb	4.8
CLL	81.52		P	14:48:57.485	0.3	323.3		5.29		TAS		31.0	1.55	m_e mb	5.2
CLZ	80.11		P	14:48:50.716	-0.1	323.3		5.29		TAS		17.6	1.30	m_e mb	4.8
FLT1	80.05		P	14:48:49.525	-0.1	323.3		5.29		TAS		5.7	0.90	m_e mb	4.5
FUR	83.40		P	14:49:07.982		323.3		5.29		TAS		16.3	0.64	m_e mb	5.4
GEC2	83.79		P	14:49:09.649		323.3		5.29		TAS		12.9	1.27	m_e mb	5.0
GRA1	82.15		P	14:49:01.427		323.3		5.29		TAS		25.6	1.12	m_e mb	5.3
GRA1	82.15		L	15:25:22.133						T__		994.2	19.00	a_e Ms	5.2
IBBN	78.74		P	14:48:42.676	0.2	323.3		5.29		TAS		39.3	1.48	m_e mb	5.2
MANZ	82.26		P	14:49:01.557		323.3		5.29		TAS		2.1	1.23	m_e mb	4.1
MOX	81.54		P	14:48:57.797	0.3	323.3		5.29		TAS		28.1	1.66	m_e mb	5.1
MOX	81.54		L	15:26:15.056						T__		831.7	18.70	a_e Ms	5.1
PLN	81.87		P	14:48:59.489	-0.1	323.3		5.29		TAS		2.6	0.99	m_e mb	4.3
RETH	79.02		P	14:48:44.727	0.5	323.3		5.29		TAS		13.0	1.14	m_e mb	4.9
RJOB	84.35		P	14:49:12.554		323.3		5.29		TAS		10.3	1.14	m_e mb	5.0
ROTZ	82.47		P	14:49:02.726		323.3		5.29		TAS		1.4	1.21	m_e mb	4.0
TANN	82.05		P	14:49:00.423	-0.1	323.3		5.29		TAS		6.7	1.07	m_e mb	4.7
UBBA	80.78		P	14:48:53.948	-0.1	323.3		5.29		TAS		16.7	1.42	m_e mb	4.9
UBR	83.31		P	14:49:07.520		323.3		5.29		TAS		15.1	1.07	m_e mb	5.2
WET	83.24		P	14:49:06.709		323.3		5.29		TAS		2.8	0.80	m_e mb	4.5
WLF	80.12		P	14:48:50.363	-0.5	323.3		5.29		TAS		27.1	1.42	m_e mb	5.0

Event 411005 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	15:44:44.98			36.2340	140.7470				33.0			29		80.32	85.74	m i ke	BGR
OrigID 411011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	411011
Ms	4.3		BGR	411011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.74		P	15:57:18.933	-0.5	38.8		5.15		TAS		18.0	1.14	m_e	mb 5.1
BRG	81.47		P	15:56:57.102	-0.1	38.8		5.15		TAS		8.1	0.90	m_e	mb 4.8
BSEG	80.53		P	15:56:52.390	0.2	38.8		5.15		TAS		12.1	1.11	m_e	mb 4.8
BUG	83.64		P	15:57:08.136	0.0	38.8		5.15		TAS		6.3	0.92	m_e	mb 4.8
CLL	81.52		P	15:56:57.225	-0.1	38.8		5.15		TAS		24.8	1.10	m_e	mb 5.2
CLZ	82.15		P	15:57:01.048	-0.2	38.8		5.15		TAS		16.3	1.04	m_e	mb 5.1
FLT1	81.43		P	15:56:56.512	0.3	38.8		5.15		TAS		20.9	1.07	m_e	mb 5.1
FUR	84.66		P	15:57:14.054		38.8		5.15		TAS		28.9	1.19	m_e	mb 5.4
GEC2	83.11		P	15:57:05.519	-0.3	38.8		5.15		TAS		5.6	0.74	m_e	mb 4.9
GOR1	80.89		P	15:56:54.504	-0.0	38.8		5.15		TAS		44.1	1.35	m_e	mb 5.3
GRA1	83.49		P	15:57:08.241	-0.2	38.8		5.15		TAS		22.1	0.99	m_e	mb 5.3
GRA1	83.49		L	17:13:41.166						T__		118.2	18.70	a_e	Ms 4.3
GTTG	82.54		P	15:57:02.927	-0.3	38.8		5.15		TAS		12.3	0.92	m_e	mb 5.1
HLG	81.21		P	15:56:55.892	0.0	38.8		5.15		TAS		41.9	0.96	m_e	mb 5.4
IBBN	82.76		P	15:57:03.899	-0.6	38.8		5.15		TAS		27.7	1.25	m_e	mb 5.3
KAST	83.40		P	15:57:07.220	-0.2	38.8		5.15		TAS		6.1	1.06	m_e	mb 4.8
MANZ	82.90		P	15:57:04.839	0.2	38.8		5.15		TAS		1.9	1.06	m_e	mb 4.3
MOX	82.59		P	15:57:02.992	0.1	38.8		5.15		TAS		6.6	0.90	m_e	mb 4.9
MOX	82.59		L	17:12:28.993						T__		155.3	18.00	a_e	Ms 4.4
NEUB	82.10		P	15:57:00.450	-0.2	38.8		5.15		TAS		20.9	1.00	m_e	mb 5.2
PLN	82.49		P	15:57:02.603	-0.0	38.8		5.15		TAS		3.1	1.29	m_e	mb 4.3
RETH	81.83		P	15:56:59.039	-0.1	38.8		5.15		TAS		13.2	1.10	m_e	mb 5.0
ROTZ	83.03		P	15:57:05.693	0.6	38.8		5.15		TAS		2.8	1.00	m_e	mb 4.4
RUE	80.32		P	15:56:51.207	0.0	38.8		5.15		TAS		24.5	0.99	m_e	mb 5.1
STU	85.04		P	15:57:15.591	0.3	38.8		5.15		TAS		63.5	1.18	m_e	mb 5.7
TANN	82.43		P	15:57:02.264	0.2	38.8		5.15		TAS		9.0	1.28	m_e	mb 4.8
TNS	84.17		P	15:57:11.167	0.4	38.8		5.15		TAS		9.0	1.24	m_e	mb 4.9
UBBA	83.10		P	15:57:05.402	0.1	38.8		5.15		TAS		7.5	1.48	m_e	mb 4.7
UBR	85.53		P	15:57:17.669		38.8		5.15		TAS		7.2	1.25	m_e	mb 4.7
WET	83.23		P	15:57:06.556	-0.1	38.8		5.15		TAS		8.7	1.08	m_e	mb 4.9
WLF	85.50		P	15:57:18.200	0.2	38.8		5.15		TAS		8.9	1.04	m_e	mb 4.9

Event 411007 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	18:22:42.00			-19.4000	-173.1800				31.0			24		145.27	151.66	m i ke	NEIC

OrigID 411102

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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ASSE	147.20	PKPbc	18:42:23.675	0.1	8.2	2.63	TAS	m_e
BFO	151.12	PKPbc	18:42:33.443		8.2	2.63	TAS	m_e
BRG	148.09	PKPbc	18:42:26.195	0.1	8.2	2.63	TAS	m_e
BSEG	145.42	PKPbc	18:42:18.228	0.1	8.2	2.63	TAS	m_e
CLL	147.79	PKPbc	18:42:25.168	0.1	8.2	2.63	TAS	m_e
FUR	151.08	PKPbc	18:42:33.448		8.2	2.63	TAS	m_e
GEC2	150.10	PKPbc	18:42:31.296		8.2	2.63	TAS	m_e
GOR1	146.29	PKPbc	18:42:21.278	0.2	8.2	2.63	TAS	m_e
GRA1	149.57	PKPbc	18:42:30.186	-0.6	8.2	2.63	TAS	m_e
HLG	145.27	PKPbc	18:42:17.958	-0.6	8.2	2.63	TAS	m_e
IBBN	147.15	PKPbc	18:42:23.513	-0.1	8.2	2.63	TAS	m_e
KAST	148.24	PKPbc	18:42:26.418	0.1	8.2	2.63	TAS	m_e
MANZ	149.19	PKPbc	18:42:29.134	-0.2	8.2	2.63	TAS	m_e
MOX	148.59	PKPbc	18:42:27.350	0.2	8.2	2.63	TAS	m_e
NEUB	148.03	PKPbc	18:42:25.895	0.1	8.2	2.63	TAS	m_e
PLN	148.69	PKPbc	18:42:27.695	0.5	8.2	2.63	TAS	m_e
RETH	146.67	PKPbc	18:42:22.344	0.1	8.2	2.63	TAS	m_e
ROTZ	149.40	PKPbc	18:42:29.695	-0.4	8.2	2.63	TAS	a_e
TANN	148.73	PKPbc	18:42:27.856	0.4	8.2	2.63	TAS	m_e
TNS	149.22	PKPbc	18:42:28.919	0.1	8.2	2.63	TAS	m_e
UBBA	148.55	PKPbc	18:42:27.263	0.2	8.2	2.63	TAS	m_e
UBR	151.66	PKPbc	18:42:34.695		8.2	2.63	TAS	m_e
WET	149.93	PKPbc	18:42:30.993		8.2	2.63	TAS	m_e
WLF	149.80	PKPbc	18:42:30.992	-0.4	8.2	2.63	TAS	m_e

Event 411008 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	19:59:37.18			-19.8090	-172.7090				33.0			20		145.86	152.10	m i ke	BGR
	411014																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	151.54		PKPbc	20:19:28.715		7.4		2.57		TAS					m_e
BRG	148.56		PKPbc	20:19:21.458	0.3	7.4		2.57		TAS					m_e
BSEG	145.86		PKPbc	20:19:13.402	-0.0	7.4		2.57		TAS					m_e
CLL	148.25		PKPbc	20:19:20.545	0.2	7.4		2.57		TAS					m_e
GEC2	150.58		PKPbc	20:19:26.559		7.4		2.57		TAS					m_e
GTTG	148.26		PKPbc	20:19:20.573	0.3	7.4		2.57		TAS					m_e
KAST	148.66		PKPbc	20:19:21.724	0.2	7.4		2.57		TAS					m_e
MANZ	149.65		PKPbc	20:19:24.361		7.4		2.57		TAS					m_e
MOX	149.04		PKPbc	20:19:22.784	-0.1	7.4		2.57		TAS					m_e
NEUB	148.48		PKPbc	20:19:21.088	0.2	7.4		2.57		TAS					m_e
PLN	149.15		PKPbc	20:19:23.111	-0.4	7.4		2.57		TAS					m_e
RETH	147.09		PKPbc	20:19:17.898	-0.0	7.4		2.57		TAS					m_e

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RJOB	151.78	PKPbc	20:19:29.092	7.4	2.57	TAS	m_e	
ROTZ	149.85	PKPbc	20:19:24.900	7.4	2.57	TAS	m_e	
TANN	149.19	PKPbc	20:19:23.158	-0.6	7.4	2.57	TAS	m_e
TNS	149.64	PKPbc	20:19:24.358	-0.4	7.4	2.57	TAS	m_e
UBBA	148.98	PKPbc	20:19:22.839	0.3	7.4	2.57	TAS	m_e
UBR	152.10	PKPbc	20:19:30.042	7.4	2.57	TAS	m_e	
WET	150.39	PKPbc	20:19:26.434	7.4	2.57	TAS	m_e	
WLF	150.20	PKPbc	20:19:26.307	7.4	2.57	TAS	m_e	

Event 411010 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/11	22:33:50.00			-24.3800	-176.6000				93.0					154.00	154.00	m i ke	NEIC
OrigID 411105																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	154.00		PKPab	22:53:53.604		16.4		3.76		TAS				m_e	

Event 412001 Turkey-Iran border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/12	02:23:16.43			38.8380	44.8480				33.0					26.20	26.20	m i ke	BGR
OrigID 412007																	

Magnitude Err Nsta Author OrigID

mb	4.8		BGR	412007
Ms	3.6		BGR	412007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	26.20		P	02:28:47.887		109.9		10.52		TAS		32.3	1.44	m_e	mb	4.8
GRA1	26.20		L	02:44:26.981						T__		147.6	18.20	a_e	Ms	3.6

Event 412002 Mid-Indian Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/12	06:57:47.70			-36.9600	77.4500				10.0				16	102.14	107.27	m i ke	NEIC
OrigID 412097																	

Magnitude Err Nsta Author OrigID  
 Ms 5.3 BGR 412008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	106.06		PP	07:16:23.041		129.5		7.46		TAS				m_e	
BFO	104.79		Pdiff	07:11:53.223	-0.2	131.2		4.64		TAS				m_e	
BFO	104.79		PP	07:16:14.304	-0.4	129.5		7.46		TAS				m_e	
BRG	103.70		Pdiff	07:11:48.608	0.1	131.2		4.64		TAS				m_e	
BUG	107.27		Pdiff	07:12:04.684		131.2		4.64		TAS				m_e	
BUG	107.27		PP	07:16:32.162		129.5		7.46		TAS				m_e	
CLL	104.43		Pdiff	07:11:51.768	-0.1	131.2		4.64		TAS				m_e	
CLZ	106.02		Pdiff	07:11:59.117	0.4	131.2		4.64		TAS				m_e	
CLZ	106.02		PP	07:16:22.648		129.5		7.46		TAS				m_e	
FUR	103.18		Pdiff	07:11:46.524	0.6	131.2		4.64		TAS				m_e	
GEC2	102.44		Pdiff	07:11:41.994	-0.6	131.2		4.64		TAS				m_e	
GEC2	102.44		PP	07:15:56.103	0.1	129.5		7.46		TAS				m_e	
GRA1	104.21		Pdiff	07:11:50.869	0.1	131.2		4.64		TAS				m_e	
GRA1	104.21		L	08:08:35.851						T__		847.9	18.40	a_e Ms	5.3
GTTG	106.03		PP	07:16:22.501		129.5		7.46		TAS				m_e	
KAST	106.56		Pdiff	07:12:02.006		131.2		4.64		TAS				m_e	
KAST	106.56		PP	07:16:26.927		129.5		7.46		TAS				m_e	
MANZ	103.98		Pdiff	07:11:49.344	-0.3	131.2		4.64		TAS				m_e	
MOX	104.65		Pdiff	07:11:53.063	0.2	131.2		4.64		TAS				m_e	
MOX	104.65		PP	07:16:12.365	0.1	129.5		7.46		TAS				m_e	
MOX	104.65		L	08:08:18.081						T__		1023.1	18.80	a_e Ms	5.4
NEUB	104.93		Pdiff	07:11:54.285	0.0	131.2		4.64		TAS				m_e	
NEUB	104.93		PP	07:16:14.794		129.5		7.46		TAS				m_e	
PLN	104.28		Pdiff	07:11:51.396	0.3	131.2		4.64		TAS				m_e	
RJOB	102.14		Pdiff	07:11:41.056	-0.1	131.2		4.64		TAS				m_e	
RJOB	102.14		PP	07:15:53.950	-0.0	129.5		7.46		TAS				m_e	
ROTZ	103.78		Pdiff	07:11:48.816	0.0	131.2		4.64		TAS				m_e	
STU	104.63		Pdiff	07:11:52.638	-0.1	131.2		4.64		TAS				m_e	
STU	104.63		PP	07:16:12.996	0.2	129.5		7.46		TAS				m_e	
TANN	104.09		Pdiff	07:11:50.463	0.2	131.2		4.64		TAS				m_e	
TNS	105.93		Pdiff	07:11:58.774	-0.1	131.2		4.64		TAS				m_e	
TNS	105.93		PP	07:16:22.282		129.5		7.46		TAS				m_e	
UBBA	105.54		Pdiff	07:11:56.933	0.1	131.2		4.64		TAS				m_e	
UBBA	105.54		PP	07:16:18.915		129.5		7.46		TAS				m_e	
UBR	103.46		Pdiff	07:11:47.813	0.6	131.2		4.64		TAS				m_e	
UBR	103.46		PP	07:16:04.434	0.2	129.5		7.46		TAS				m_e	
WET	103.04		Pdiff	07:11:44.628	-0.7	131.2		4.64		TAS				m_e	
WET	103.04		PP	07:15:59.890	-0.6	129.5		7.46		TAS				m_e	
WLF	106.75		Pdiff	07:12:02.125		131.2		4.64		TAS				m_e	
WLF	106.75		PP	07:16:28.283		129.5		7.46		TAS				m_e	

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/12	13:11:51.02			41.8430	142.6120				33.0					79.37	79.37	m i ke	BGR
OrigID 412010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	412010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	79.37		P	13:23:52.296		36.6		4.77		TAS		6.5	0.73	m_e mb	4.8

Event 413001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/13	01:42:54.45			48.5800	152.6000				33.0				29	73.37	78.75	m i ke	BGR
OrigID 413007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	413007
Ms	4.5		BGR	413007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.63		P	01:54:53.034	-0.4	25.2		5.70		TAS		41.5	1.07	a_e mb	5.4
BRG	74.78		P	01:54:31.334	0.1	25.2		5.70		TAS		15.7	0.92	a_e mb	5.0
BUG	76.04		P	01:54:38.284	-0.3	25.2		5.70		TAS		38.0	1.05	a_e mb	5.5
CLL	74.66		P	01:54:30.484	-0.2	25.2		5.70		TAS		43.2	0.83	a_e mb	5.5
CLZ	74.89		P	01:54:32.434	-0.4	25.2		5.70		TAS		37.5	1.07	a_e mb	5.3
FLT1	74.22		P	01:54:27.731	0.0	25.2		5.70		TAS		21.6	0.90	m_e mb	5.2
FUR	77.98		P	01:54:49.934		25.2		5.70		TAS		57.1	0.95	a_e mb	5.7
GEC2	76.66		P	01:54:42.384	0.1	25.2		5.70		TAS		19.5	0.81	m_e mb	5.3
GOR1	73.60		P	01:54:24.967	-0.2	25.2		5.70		TAS		105.0	1.65	m_e mb	5.6
GRA1	76.61		P	01:54:42.434	-0.3	25.2		5.70		TAS		52.8	0.86	a_e mb	5.7
GRA1	76.61		L	02:31:57.578						T__		228.0	20.60	a_e Ms	4.5
GTTG	75.26		P	01:54:34.334	-0.1	25.2		5.70		TAS		48.4	1.45	a_e mb	5.3
HLG	73.37		P	01:54:24.369	0.1	25.2		5.70		TAS		224.9	0.88	m_e mb	6.3
IBBN	75.12		P	01:54:33.130	0.3	25.2		5.70		TAS		43.9	1.02	m_e mb	5.4
KAST	75.97		P	01:54:38.264	-0.4	25.2		5.70		TAS		31.7	0.99	m_e mb	5.4
MANZ	76.10		P	01:54:39.134	0.4	25.2		5.70		TAS		5.3	0.95	a_e mb	4.7
MOX	75.64		P	01:54:36.434	-0.1	25.2		5.70		TAS		27.9	1.08	a_e mb	5.3
MOX	75.64		L	02:31:18.273						T__		255.9	19.70	a_e Ms	4.5
NEUB	75.10		P	01:54:33.084	-0.0	25.2		5.70		TAS		26.7	0.96	a_e mb	5.2
PLN	75.63		P	01:54:36.534	0.1	25.2		5.70		TAS		7.7	1.02	a_e mb	4.8
RETH	74.33		P	01:54:28.834	-0.3	25.2		5.70		TAS		50.2	1.53	a_e mb	5.3
RJOB	77.92		P	01:54:49.884		25.2		5.70		TAS		28.5	0.90	a_e mb	5.4
ROTZ	76.27		P	01:54:40.384	0.6	25.2		5.70		TAS		7.3	1.03	a_e mb	4.8
RUE	73.40		P	01:54:23.534	-0.6	25.2		5.70		TAS		39.8	0.94	a_e mb	5.5

STU	78.00	P	01:54:49.634	0.4	25.2	5.70	TAS	78.3	1.04	a_e	mb	5.8
TANN	75.61	P	01:54:36.384	0.3	25.2	5.70	TAS	9.4	0.91	a_e	mb	4.9
TNS	76.87	P	01:54:43.334	0.7	25.2	5.70	TAS	36.1	0.91	a_e	mb	5.5
UBBA	75.92	P	01:54:37.660	0.1	25.2	5.70	TAS	32.8	1.31	m_e	mb	5.3
UBR	78.75	P	01:54:53.819		25.2	5.70	TAS	35.4	1.28	m_e	mb	5.2
WET	76.63	P	01:54:42.684	-0.5	25.2	5.70	TAS	43.7	0.96	a_e	mb	5.6
WLF	77.95	P	01:54:50.236	0.1	25.2	5.70	TAS	29.8	1.11	m_e	mb	5.3

Event 414001 Kermadec Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/14	01:06:44.00			-30.4900	-176.2400				10.0			23		156.09	162.15	m i ke	EMSC
	414033																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.9		BGR	414007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	157.79		PKPdf	01:26:40.294	-0.1	20.5		1.13		TAS				m_e		
ASSE	157.79		PKPab	01:27:12.952	-0.1	16.9		4.38		TAS				m_e		
BFO	161.84		PKPdf	01:26:44.694		20.5		1.13		TAS				m_e		
BFO	161.84		PKPab	01:27:30.494		16.9		4.38		TAS				m_e		
BRG	158.26		PKPdf	01:26:40.857	-0.0	20.5		1.13		TAS				m_e		
BRG	158.26		PKPab	01:27:15.178	-0.0	16.9		4.38		TAS				m_e		
BSEG	156.09		PKPdf	01:26:38.388	0.0	20.5		1.13		TAS				m_e		
BSEG	156.09		PKPab	01:27:05.718	-0.1	16.9		4.38		TAS				m_e		
BUG	158.91		PKPdf	01:26:41.468	-0.1	20.5		1.13		TAS				m_e		
CLL	158.09		PKPdf	01:26:40.417	0.1	20.5		1.13		TAS				m_e		
CLL	158.09		PKPab	01:27:14.143	-0.1	16.9		4.38		TAS				m_e		
CLZ	158.11		PKPdf	01:26:40.857	0.1	20.5		1.13		TAS				m_e		
CLZ	158.11		PKPab	01:27:14.661	-0.1	16.9		4.38		TAS				m_e		
FLT1	157.49		PKPdf	01:26:39.653	-0.2	20.5		1.13		TAS				m_e		
FLT1	157.49		PKPab	01:27:11.339	0.4	16.9		4.38		TAS				m_e		
FUR	161.44		PKPdf	01:26:44.245	-0.3	20.5		1.13		TAS				m_e		
FUR	161.44		PKPab	01:27:29.250		16.9		4.38		TAS				m_e		
GEC2	160.17		PKPdf	01:26:42.763	0.1	20.5		1.13		TAS				m_e		
GEC2	160.17		PKPab	01:27:23.501		16.9		4.38		TAS				m_e		
GOR1	156.85		PKPdf	01:26:39.402	-0.3	20.5		1.13		TAS				m_e		
GRA1	160.01		PKPdf	01:26:42.909	-0.2	20.5		1.13		TAS				m_e		
GRA1	160.01		PKPab	01:27:23.239	-0.1	16.9		4.38		TAS				m_e		
GRA1	160.01		L	02:40:52.922						T__		1991.4	21.80	a_e	Ms	5.9
GTTG	158.47		PKPdf	01:26:41.113	-0.3	20.5		1.13		TAS				m_e		
GTTG	158.47		PKPab	01:27:15.740	0.2	16.9		4.38		TAS				m_e		
IBBN	158.00		PKPdf	01:26:40.490	0.2	20.5		1.13		TAS				m_e		
IBBN	158.00		PKPab	01:27:13.980	-0.1	16.9		4.38		TAS				m_e		
KAST	159.02		PKPdf	01:26:41.749	0.1	20.5		1.13		TAS				m_e		





GRA1	78.07	P	02:58:23.286		28.0	5.58	TAS	22.5	0.87	m_e	mb	5.3
GTTG	76.80	P	02:58:15.932	0.1	28.0	5.58	TAS	21.9	1.15	m_e	mb	5.2
KAST	77.55	P	02:58:20.110	0.2	28.0	5.58	TAS	30.6	1.70	m_e	mb	5.2
MANZ	77.54	P	02:58:19.936	0.1	28.0	5.58	TAS	2.5	1.00	m_e	mb	4.3
MOX	77.11	P	02:58:17.478	0.5	28.0	5.58	TAS	11.2	1.16	m_e	mb	4.9
NEUB	76.58	P	02:58:14.230	0.1	28.0	5.58	TAS	18.5	0.95	m_e	mb	5.2
PLN	77.09	P	02:58:17.313	0.0	28.0	5.58	TAS	2.9	1.09	m_e	mb	4.3
STU	79.50	P	02:58:30.531		28.0	5.58	TAS	32.8	0.94	m_e	mb	5.2
TANN	77.06	P	02:58:17.159	-0.2	28.0	5.58	TAS	3.0	0.81	m_e	mb	4.5
TNS	78.42	P	02:58:24.893	-0.4	28.0	5.58	TAS	20.5	1.37	m_e	mb	5.1
UBBA	77.44	P	02:58:18.982	0.5	28.0	5.58	TAS	29.4	1.75	m_e	mb	5.1
UBR	80.20	P	02:58:34.307		28.0	5.58	TAS	52.8	1.99	m_e	mb	5.1
WET	78.04	P	02:58:23.107		28.0	5.58	TAS	20.1	0.99	m_e	mb	5.2
WLF	79.56	P	02:58:31.029	-0.3	28.0	5.58	TAS	6.3	0.85	m_e	mb	4.6

Event 415001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/15	07:05:09.20			-15.2800	-173.4200				70.0					145.47	145.47	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.47		PKPbc	07:24:40.620		7.9		2.89		TAS					m_e

Event 415002 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/15	07:19:11.93			27.6300	128.5300				8.2				20	82.08	85.95	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb	5.5		BGR	415008
Ms	5.1		BGR	415008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	83.82		P	07:31:41.680	-0.1	52.6		5.13		TAS		86.0	1.81	m_e	mb	5.7
BRG	82.93		P	07:31:37.119	0.3	52.6		5.13		TAS		23.3	1.05	m_e	mb	5.3
BSEG	82.88		P	07:31:37.028	-0.2	52.6		5.13		TAS		32.0	0.99	m_e	mb	5.5
CLL	83.16		P	07:31:38.133	-0.1	52.6		5.13		TAS		44.3	0.86	m_e	mb	5.7
CLZ	84.14		P	07:31:43.679	-0.0	52.6		5.13		TAS		39.7	0.99	m_e	mb	5.6
FLT1	83.42		P	07:31:39.262	-0.2	52.6		5.13		TAS		44.3	0.98	m_e	mb	5.7

./bul2004.txt

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FUR	85.95	P	07:31:52.818		52.6	5.13	TAS	69.5	1.21	m_e	mb	5.7
GEC2	84.25	P	07:31:43.767		52.6	5.13	TAS	18.9	0.99	m_e	mb	5.3
GOR1	82.99	P	07:31:37.896	0.3	52.6	5.13	TAS	87.7	1.16	m_e	mb	5.9
GRA1	85.04	P	07:31:48.230		52.6	5.13	TAS	66.7	1.47	m_e	mb	5.7
GRA1	85.04	pP	07:31:50.615				T__				m_e	
GRA1	85.04	L	08:14:18.083				T__	657.7	20.50	a_e	Ms	5.0
MANZ	84.41	P	07:31:44.713		52.6	5.13	TAS	6.9	1.22	m_e	mb	4.8
MOX	84.26	P	07:31:43.711	-0.1	52.6	5.13	TAS	99.2	2.37	m_e	mb	5.6
MOX	84.26	L	08:14:24.148				T__	890.9	18.30	a_e	Ms	5.2
NEUB	83.85	P	07:31:41.747	0.0	52.6	5.13	TAS	46.3	0.96	m_e	mb	5.7
PLN	84.08	P	07:31:42.927	0.2	52.6	5.13	TAS	5.8	0.89	m_e	mb	4.8
RETH	84.07	P	07:31:42.801	-0.4	52.6	5.13	TAS	29.6	1.25	m_e	mb	5.4
RJOB	85.39	P	07:31:49.789		52.6	5.13	TAS	23.3	0.98	m_e	mb	5.4
RUE	82.08	P	07:31:33.149	-0.1	52.6	5.13	TAS	69.1	1.07	m_e	mb	5.7
TANN	83.97	P	07:31:42.224	0.1	52.6	5.13	TAS	22.2	1.15	m_e	mb	5.3
UBBA	84.96	P	07:31:47.488	0.0	52.6	5.13	TAS	33.9	1.69	m_e	mb	5.3
WET	84.51	P	07:31:45.210		52.6	5.13	TAS	18.0	1.37	m_e	mb	5.1

Event 415003 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/15	07:28:04.10			26.2200	128.8300				10.0					86.34	86.34	m i ke	EMSC
OrigID 415035																	

Magnitude Err Nsta Author OrigID  
mb 4.6 BGR 415009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	86.34		P	07:40:47.435		52.9		4.71		TAS		4.9	0.93	m_e	mb	4.6

Event 415005 Jordan - Syria region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/15	07:40:04.30			35.8900	35.4800				10.0					22.39	22.39	m i ke	EMSC
OrigID 415037																	

Magnitude Err Nsta Author OrigID  
mb 4.0 BGR 415011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	22.39		P	07:45:03.143		118.9		11.23		TAS		6.3	0.95	m_e	mb	4.0

Event 415006 Mexico-Guatemala border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/15	09:44:51.44			15.7900	-91.9300				33.0			27		83.25	88.19	m i ke	BGR
OrigID 415012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	415012
MBB	6.0		BGR	415012
Ms	4.6		BGR	415012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	85.22		P	09:57:25.237	-0.4	289.9		4.96		TAS		73.4	0.93	m_e	MBB	6.2
BFO	85.01		P	09:57:23.607		289.9		4.96		TAS		57.1	1.06	m_e	MBB	5.9
BRG	87.57		P	09:57:36.277	0.2	289.9		4.96		TAS		13.9	0.76	m_e	mb	5.4
BSEG	84.41		P	09:57:21.291	0.4	289.9		4.96		TAS		46.6	0.81	m_e	MBB	6.1
BUG	83.42		P	09:57:15.845	0.1	289.9		4.96		TAS		67.7	1.03	m_e	MBB	6.2
CLL	86.86		P	09:57:33.347	-0.6	289.9		4.96		TAS		19.7	0.81	m_e	MBB	5.6
CLZ	85.13		P	09:57:25.019	0.0	289.9		4.96		TAS		68.2	0.87	m_e	MBB	6.1
FLT1	85.47		P	09:57:25.907	0.2	289.9		4.96		TAS		44.8	0.86	a_e	MBB	6.0
GEC2	88.19		P	09:57:39.356	0.3	289.9		4.96		TAS		16.5	0.84	m_e	mb	5.4
GOR1	85.29		P	09:57:25.307	-0.2	289.9		4.96		TAS		73.3	1.28	a_e	MBB	6.1
GRA1	86.37		P	09:57:31.086	-0.1	289.9		4.96		TAS		72.1	1.11	m_e	mb	5.7
GRA1	86.37		L	10:36:09.805						T__		294.9	21.00	a_e	Ms	4.7
GTTG	84.99		P	09:57:24.293	-0.2	289.9		4.96		TAS		114.2	0.83	m_e	MBB	6.3
IBBN	83.46		P	09:57:16.207	0.2	289.9		4.96		TAS		184.6	1.23	a_e	MBB	6.3
KAST	84.18		P	09:57:19.857	0.3	289.9		4.96		TAS		70.9	0.95	a_e	MBB	6.1
MANZ	86.80		P	09:57:33.414	-0.1	289.9		4.96		TAS		4.8	1.14	m_e	MBB	5.1
MOX	86.28		P	09:57:30.257	0.1	289.9		4.96		TAS		18.4	0.79	a_e	MBB	5.6
MOX	86.28		L	10:32:57.237						T__		269.9	21.30	a_e	Ms	4.6
NEUB	86.18		P	09:57:30.075	-0.2	289.9		4.96		TAS		31.0	0.81	m_e	MBB	5.8
PLN	86.66		P	09:57:32.540	0.4	289.9		4.96		TAS		5.7	0.82	m_e	MBB	5.2
RETH	84.26		P	09:57:20.784	-0.5	289.9		4.96		TAS		119.1	0.86	m_e	MBB	6.4
RJOB	88.03		P	09:57:39.414		289.9		4.96		TAS		9.8	0.77	m_e	mb	5.2
STU	85.42		P	09:57:26.060	-0.0	289.9		4.96		TAS		238.7	0.85	m_e	MBB	6.7
TANN	86.86		P	09:57:33.696	0.2	289.9		4.96		TAS		12.0	0.80	m_e	mb	5.1
TNS	84.50		P	09:57:21.742	0.2	289.9		4.96		TAS		175.3	0.81	m_e	MBB	6.4
UBBA	85.25		P	09:57:25.655	0.4	289.9		4.96		TAS		30.5	1.01	m_e	MBB	5.9
UBR	86.35		P	09:57:30.707		289.9		4.96		TAS		53.8	1.07	a_e	MBB	5.9
WET	87.57		P	09:57:36.762	-0.5	289.9		4.96		TAS		21.1	0.78	m_e	MBB	5.8
WLF	83.25		P	09:57:15.557	-0.5	289.9		4.96		TAS		65.0	0.83	a_e	MBB	6.2

Event 415007 Northern Colombia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2020/04/15 10:59:32.61 9.5000 -73.5000 57.4 1.8 28 76.13 81.10 m i ke BGR  
 415013

Magnitude Err Nsta Author OrigID  
 mb 5.4 BGR 415013  
 MBB 5.7 BGR 415013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	79.00		P	11:11:33.329	-0.2	271.7		5.44		TAS		54.7	1.12	m_e	MBB	5.8
ASSE	79.00		pP	11:11:49.538	-0.1	271.7		5.46		TAS				m_e		
BFO	77.55		P	11:11:24.648		271.7		5.44		TAS		34.4	0.90	m_e	MBB	5.8
BFO	77.55		pP	11:11:40.701	-0.5	271.7		5.46		TAS				m_e		
BRG	81.10		P	11:11:44.312	0.1	271.7		5.44		TAS		19.0	0.91	m_e	mb	5.1
BRG	81.10		pP	11:12:00.457		271.7		5.46		TAS				m_e		
BSEG	78.75		P	11:11:31.600	-0.1	271.7		5.44		TAS		21.2	0.83	m_e	MBB	5.4
BSEG	78.75		pP	11:11:48.113	0.2	271.7		5.46		TAS				m_e		
BUG	76.88		P	11:11:21.448	-0.2	271.7		5.44		TAS		62.9	0.88	a_e	MBB	5.8
BUG	76.88		pP	11:11:37.217	-0.4	271.7		5.46		TAS				m_e		
CLL	80.48		P	11:11:40.963	-0.2	271.7		5.44		TAS		28.4	1.04	m_e	mb	5.1
CLL	80.48		pP	11:11:57.004	0.0	271.7		5.46		TAS				m_e		
CLZ	78.82		P	11:11:32.398	-0.2	271.7		5.44		TAS		41.3	0.88	a_e	MBB	5.6
CLZ	78.82		pP	11:11:48.434	0.3	271.7		5.46		TAS				m_e		
FLT1	79.34		P	11:11:34.648	-0.1	271.7		5.44		TAS		58.6	0.91	a_e	MBB	5.8
FLT1	79.34		pP	11:11:50.988	-0.0	271.7		5.46		TAS				m_e		
FUR	79.52		pP	11:11:52.311	-0.2	271.7		5.46		TAS				m_e		
GEC2	81.09		P	11:11:44.249	0.4	271.7		5.44		TAS		42.0	0.90	m_e	MBB	5.6
GEC2	81.09		pP	11:12:00.249		271.7		5.46		TAS				m_e		
GOR1	79.36		pP	11:11:51.177	0.2	271.7		5.46		TAS				m_e		
GRA1	79.42		P	11:11:35.455	-0.4	271.7		5.44		TAS		32.1	0.92	m_e	mb	5.3
GRA1	79.42		pP	11:11:51.623	0.4	271.7		5.46		TAS				m_e		
GTTG	78.57		P	11:11:30.900	0.1	271.7		5.44		TAS		31.2	0.99	m_e	MBB	5.6
GTTG	78.57		pP	11:11:47.198	-0.1	271.7		5.46		TAS				m_e		
IBBN	77.20		P	11:11:23.248	0.1	271.7		5.44		TAS		76.7	0.85	a_e	MBB	6.0
IBBN	77.20		pP	11:11:39.227	-0.2	271.7		5.46		TAS				m_e		
KAST	77.60		P	11:11:25.298	-0.2	271.7		5.44		TAS		22.6	0.90	a_e	MBB	5.5
KAST	77.60		pP	11:11:41.079	0.1	271.7		5.46		TAS				m_e		
MANZ	79.98		P	11:11:38.653	-0.1	271.7		5.44		TAS		9.7	0.98	m_e	MBB	5.0
MANZ	79.98		pP	11:11:54.799	-0.1	271.7		5.46		TAS				m_e		
MOX	79.64		P	11:11:36.313	0.3	271.7		5.44		TAS		31.9	1.42	m_e	mb	5.0
MOX	79.64		pP	11:11:52.440	0.0	271.7		5.46		TAS				m_e		
NEUB	79.71		P	11:11:37.023	-0.0	271.7		5.44		TAS		61.0	1.14	m_e	mb	5.4
NEUB	79.71		pP	11:11:53.118	0.3	271.7		5.46		TAS				m_e		
PLN	79.99		P	11:11:38.428	0.1	271.7		5.44		TAS		11.1	0.93	m_e	MBB	4.9
PLN	79.99		pP	11:11:54.435	0.0	271.7		5.46		TAS				m_e		
RETH	78.19		P	11:11:29.003	0.2	271.7		5.44		TAS		52.9	0.97	m_e	MBB	5.9
RETH	78.19		pP	11:11:44.884	0.3	271.7		5.46		TAS				m_e		
RJOB	80.56		P	11:11:41.199		271.7		5.44		TAS		10.2	1.03	m_e	mb	4.8
RJOB	80.56		pP	11:11:57.532	-0.2	271.7		5.46		TAS				m_e		

STU	78.11	P	11:11:28.098		271.7	5.44	TAS	182.7	0.85	a_e	MBB	6.4
STU	78.11	pP	11:11:44.175	0.1	271.7	5.46	TAS			m_e		
TANN	80.18	P	11:11:39.626	0.1	271.7	5.44	TAS	38.5	0.98	m_e	MBB	5.5
TANN	80.18	pP	11:11:55.666	-0.3	271.7	5.46	TAS			m_e		
TNS	77.62	P	11:11:25.601	0.2	271.7	5.44	TAS	57.5	0.94	m_e	MBB	5.8
TNS	77.62	pP	11:11:41.748	-0.1	271.7	5.46	TAS			m_e		
UBBA	78.60	P	11:11:30.737	0.1	271.7	5.44	TAS	37.2	1.45	m_e	mb	5.2
UBBA	78.60	pP	11:11:46.932	0.2	271.7	5.46	TAS			m_e		
UBR	78.75	P	11:11:31.948		271.7	5.44	TAS	34.5	0.93	a_e	mb	5.4
UBR	78.75	pP	11:11:47.895	0.3	271.7	5.46	TAS			m_e		
WET	80.53	P	11:11:41.465	-0.2	271.7	5.44	TAS	33.9	0.99	m_e	mb	5.3
WET	80.53	pP	11:11:57.510	-0.0	271.7	5.46	TAS			m_e		
WLF	76.13	P	11:11:17.498	-0.1	271.7	5.44	TAS	90.1	0.95	a_e	MBB	6.0
WLF	76.13	pP	11:11:33.829	0.4	271.7	5.46	TAS			m_e		

Event 415009 Off east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/15	18:43:45.46			52.3100	159.8300			38.9		0.9		28		71.11	77.08	m i ke	BGR
	415015																

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	415015
Ms	4.6		BGR	415015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	72.75		P	18:55:10.179	0.4	19.4		5.83		TAS		33.4	1.29	m_e	mb	5.3
ASSE	72.75		pP	18:55:21.318	0.4	19.6		5.85		TAS				m_e		
BFO	76.83		P	18:55:33.680		19.4		5.83		TAS		34.5	1.49	m_e	mb	5.3
BFO	76.83		pP	18:55:44.771		19.6		5.85		TAS				m_e		
BRG	73.23		P	18:55:12.682	0.2	19.4		5.83		TAS		10.1	1.04	m_e	mb	4.9
BRG	73.23		pP	18:55:23.802	0.3	19.6		5.85		TAS				m_e		
BSEG	71.11		P	18:55:00.721	-0.1	19.4		5.83		TAS		14.7	0.98	m_e	mb	5.1
BSEG	71.11		pP	18:55:11.769	-0.2	19.6		5.85		TAS				m_e		
BUG	74.06		P	18:55:17.779	-0.0	19.4		5.83		TAS		31.0	1.07	m_e	mb	5.3
BUG	74.06		pP	18:55:28.989	0.0	19.6		5.85		TAS				m_e		
CLL	73.03		P	18:55:11.475	0.1	19.4		5.83		TAS		28.6	0.95	m_e	mb	5.4
CLL	73.03		pP	18:55:22.594	0.1	19.6		5.85		TAS				m_e		
CLZ	73.08		P	18:55:12.576	-0.4	19.4		5.83		TAS		44.3	1.06	m_e	mb	5.5
CLZ	73.08		pP	18:55:23.740	-0.3	19.6		5.85		TAS				m_e		
FLT1	72.44		P	18:55:07.974	-0.1	19.4		5.83		TAS		23.8	0.98	m_e	mb	5.3
FLT1	72.44		pP	18:55:19.067	-0.1	19.6		5.85		TAS				m_e		
FUR	76.37		P	18:55:31.377		19.4		5.83		TAS		24.0	1.03	m_e	mb	5.3
FUR	76.37		pP	18:55:42.570		19.6		5.85		TAS				m_e		
GEC2	75.18		P	18:55:24.494	-0.0	19.4		5.83		TAS		9.7	0.96	m_e	mb	4.8
GEC2	75.18		pP	18:55:35.608	-0.5	19.6		5.85		TAS				m_e		

GOR1	71.81	P	18:55:05.014	0.1	19.4	5.83	TAS	33.0	1.11	m_e	mb	5.4
GOR1	71.81	pP	18:55:16.072	-0.1	19.6	5.85	TAS			m_e		
GRA1	74.94	P	18:55:23.550	0.4	19.4	5.83	TAS	30.4	1.01	m_e	mb	5.3
GRA1	74.94	pP	18:55:34.615	0.5	19.6	5.85	TAS			m_e		
GRA1	74.94	L	19:28:44.144				T__	274.5	18.80	a_e	Ms	4.6
GTTG	73.44	P	18:55:14.501	0.1	19.4	5.83	TAS	17.6	1.09	m_e	mb	5.1
GTTG	73.44	pP	18:55:25.706	0.1	19.6	5.85	TAS			m_e		
IBBN	73.15	P	18:55:12.595	-0.1	19.4	5.83	TAS	32.6	1.00	m_e	mb	5.4
IBBN	73.15	pP	18:55:23.754	-0.4	19.6	5.85	TAS			m_e		
KAST	74.08	P	18:55:18.122	-0.2	19.4	5.83	TAS	17.8	1.01	m_e	mb	5.0
KAST	74.08	pP	18:55:29.296	-0.2	19.6	5.85	TAS			m_e		
MANZ	74.47	P	18:55:20.285	0.5	19.4	5.83	TAS	3.0	1.14	m_e	mb	4.2
MANZ	74.47	pP	18:55:31.429	0.4	19.6	5.85	TAS			m_e		
MOX	73.95	P	18:55:17.257	0.1	19.4	5.83	TAS	15.8	1.05	m_e	mb	5.0
MOX	73.95	pP	18:55:28.388	0.1	19.6	5.85	TAS			m_e		
MOX	73.95	L	19:27:42.065				T__	295.3	21.80	a_e	Ms	4.5
NEUB	73.40	P	18:55:13.984	-0.1	19.4	5.83	TAS	17.4	0.89	m_e	mb	5.2
NEUB	73.40	pP	18:55:24.826	-0.0	19.6	5.85	TAS			m_e		
PLN	73.99	P	18:55:17.611	-0.1	19.4	5.83	TAS	5.1	1.03	m_e	mb	4.5
PLN	73.99	pP	18:55:28.666	-0.0	19.6	5.85	TAS			m_e		
RETH	72.43	P	18:55:08.446	-0.5	19.4	5.83	TAS	30.4	1.21	m_e	mb	5.3
RETH	72.43	pP	18:55:19.424	-0.4	19.6	5.85	TAS			m_e		
ROTZ	74.65	P	18:55:21.662	0.1	19.4	5.83	TAS	4.0	1.09	m_e	mb	4.4
ROTZ	74.65	pP	18:55:32.784	0.1	19.6	5.85	TAS			m_e		
RUE	71.77	P	18:55:04.472	-0.5	19.4	5.83	TAS	64.7	1.21	m_e	mb	5.6
RUE	71.77	pP	18:55:15.427	-0.5	19.6	5.85	TAS			m_e		
STU	76.24	P	18:55:30.379	-0.1	19.4	5.83	TAS	63.9	1.30	m_e	mb	5.6
TANN	73.99	P	18:55:17.625	0.2	19.4	5.83	TAS	19.1	1.50	m_e	mb	4.9
TANN	73.99	pP	18:55:28.713	0.2	19.6	5.85	TAS			m_e		
TNS	75.00	P	18:55:23.471	0.1	19.4	5.83	TAS	16.9	1.00	m_e	mb	5.0
TNS	75.00	pP	18:55:34.671	0.1	19.6	5.85	TAS			m_e		
UBBA	74.13	P	18:55:18.134	0.3	19.4	5.83	TAS	48.0	1.72	m_e	mb	5.2
UBBA	74.13	pP	18:55:29.226	0.3	19.6	5.85	TAS			m_e		
UBR	77.08	P	18:55:35.408		19.4	5.83	TAS	18.4	1.09	m_e	mb	5.1
UBR	77.08	pP	18:55:46.350		19.6	5.85	TAS			m_e		
WET	75.09	P	18:55:24.297	-0.2	19.4	5.83	TAS	26.6	1.22	m_e	mb	5.1
WET	75.09	pP	18:55:35.502	0.0	19.6	5.85	TAS			m_e		

Event 415013 New Britain, Papua New Guinea, region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/15 22:42:19.50 -5.3500 152.7200 40.0 125.20 125.20 m i ke EMSC  
 415045

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	125.20		PKPdf	23:01:16.285		49.3		1.20		TAS					m_e

Event 416001 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/16	02:18:03.00			37.0900	141.1900				50.0					82.93	82.93	m i ke	EMSC
OrigID 416033																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	416007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	82.93		P	02:30:22.310		38.1		4.43		TAS		4.7	0.85	m_e mb	4.8

Event 416002 North of Honduras

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/16	08:04:44.89			17.5500	-84.3800				17.7	0.1		31		77.17	82.16	m i ke	BGR
OrigID 416008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	416008
MBB	5.8		BGR	416008
Ms	5.7		BGR	416008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	79.39		P	08:16:50.748	0.2	285.4		5.42		TAS		49.2	1.23	m_e MBB	6.0
BFO	78.87		P	08:16:47.305	-0.3	285.4		5.42		TAS		17.3	1.06	m_e MBB	5.8
BRG	81.70		P	08:17:02.926	-0.1	285.4		5.42		TAS		27.5	1.03	m_e MBB	5.9
BSEG	78.73		P	08:16:46.964	0.1	285.4		5.42		TAS		24.7	1.03	m_e MBB	5.9
BUG	77.49		P	08:16:39.973	-0.3	285.4		5.42		TAS		23.2	0.91	m_e MBB	6.1
CLL	81.01		P	08:16:59.093	-0.2	285.4		5.42		TAS		29.4	1.00	m_e MBB	5.8
CLL	81.01		pP	08:17:04.217						T__				m_e	
CLZ	79.28		P	08:16:50.218	0.3	285.4		5.42		TAS		41.6	1.09	m_e MBB	6.0
FLT1	79.67		P	08:16:51.572	-0.5	285.4		5.42		TAS		31.2	1.09	m_e MBB	5.7
FUR	80.81		P	08:16:58.152	-0.1	285.4		5.42		TAS		71.2	1.42	m_e MBB	5.9
GEC2	82.16		P	08:17:05.531	-0.0	285.4		5.42		TAS		39.5	1.16	m_e MBB	6.0
GOR1	79.54		P	08:16:51.191	-0.1	285.4		5.42		TAS		136.3	1.83	m_e MBB	5.9
GRA1	80.36		P	08:16:55.971	0.2	285.4		5.42		TAS		25.7	1.07	m_e mb	5.1
GRA1	80.36		pP	08:17:01.034						T__				m_e	
GRA1	80.36		PP	08:20:13.427						T__				m_e	
GRA1	80.36		S	08:27:12.980						T__				m_e	



GRA1	80.36	SS	08:32:35.224							T__							m_e	
GRA1	80.36	L	08:50:41.660							T__	4073.3	18.70	a_e	Ms				5.8
GTTG	79.11	P	08:16:49.180	0.2	285.4			5.42		TAS	37.0	1.03	m_e	MBB				5.9
HLG	77.27	P	08:16:39.096	0.1	285.4			5.42		TAS	109.8	0.96	m_e	MBB				6.2
IBBN	77.60	P	08:16:40.700	-0.1	285.4			5.42		TAS	39.2	0.96	m_e	MBB				6.1
KAST	78.25	P	08:16:44.164	-0.2	285.4			5.42		TAS	18.4	0.99	m_e	MBB				5.8
MANZ	80.83	P	08:16:58.412	0.0	285.4			5.42		TAS	4.7	1.14	m_e	MBB				5.2
MOX	80.35	P	08:16:55.645	-0.1	285.4			5.42		TAS	24.8	1.11	m_e	MBB				5.6
MOX	80.35	PP	08:20:12.326							T__								m_e
MOX	80.35	S	08:27:14.005							T__								m_e
MOX	80.35	SS	08:32:37.678							T__								m_e
MOX	80.35	L	08:56:50.564							T__	2712.6	19.80	a_e	Ms				5.6
NEUB	80.29	P	08:16:55.480	0.0	285.4			5.42		TAS	28.2	0.81	m_e	MBB				5.8
PLN	80.73	P	08:16:57.646	-0.1	285.4			5.42		TAS	8.9	0.95	m_e	MBB				5.3
RETH	78.46	P	08:16:45.791	0.3	285.4			5.42		TAS	53.8	1.13	m_e	MBB				6.1
RGN	80.27	P	08:16:55.464	0.3	285.4			5.42		TAS	221.6	1.06	m_e	mb				6.0
ROTZ	80.96	P	08:16:59.226	0.2	285.4			5.42		TAS	6.1	1.14	m_e	MBB				5.2
RUE	81.13	P	08:16:59.575	-0.3	285.4			5.42		TAS	50.1	1.05	m_e	MBB				6.1
STU	79.32	P	08:16:49.908	-0.2	285.4			5.42		TAS	66.9	1.07	m_e	MBB				6.2
TANN	80.93	P	08:16:58.988	0.1	285.4			5.42		TAS	34.5	1.14	m_e	MBB				5.8
TNS	78.49	P	08:16:45.837	0.1	285.4			5.42		TAS	36.0	1.10	m_e	MBB				6.0
UBBA	79.31	P	08:16:49.878	-0.2	285.4			5.42		TAS	95.2	2.04	m_e	MBB				5.9
UBR	80.18	P	08:16:55.055	0.3	285.4			5.42		TAS	27.7	1.04	m_e	MBB				5.9
WET	81.55	P	08:17:02.605	0.3	285.4			5.42		TAS	40.2	1.06	m_e	MBB				6.0
WLF	77.17	P	08:16:38.745	0.2	285.4			5.42		TAS	31.0	1.02	m_e	MBB				6.0

Event 416003 Fiji Islands  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/16 08:21:55.00 -16.2400 178.2500 10.0 145.01 145.01 m i ke EMSC  
 416035

Magnitude Err Nsta Author OrigID  
 Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 145.01 PKPbc 08:41:31.863 22.1 2.83 TAS m\_e

Event 416004 Northern Italy  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/16 09:42:54.22 0.48 1.77 44.7130 9.3630 13.3 10.0 55 10.0 37 275 2.34 7.17 m i ke BGR  
 416010

Magnitude Err Nsta Author OrigID  
ML 4.4 BGR 416010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	4.99		Pn	09:44:08.095	-0.6					T__				m_e	
BALST	2.87		Pn	09:43:40.137	0.0					T__				m_e	
BE1			Pn	09:43:47.969	0.1					T__				m_e ML	4.5
BFO	3.69		Sn	09:44:32.241	-1.7					T__				m_e	
BFO	3.69		Pn	09:43:49.898	-1.3					T__				m_e ML	4.5
BFO	3.69		Pg	09:44:04.759	4.4					T__				m_e	
BIOA			Pn	09:43:58.030	-0.1					T__				m_e ML	4.5
BRG	6.89		Pn	09:44:34.132	-0.3					T__				m_e ML	4.5
BUG	6.88		Sn	09:45:49.958	0.4					T__				m_e	
BUG	6.88		Pn	09:44:33.759	-0.4					T__				m_e	
CLZ	7.17		Sn	09:45:56.607	0.1					T__				m_e	
CLZ	7.17		Pn	09:44:37.211	-0.9					T__				m_e	
CLZ	7.17		Pg	09:45:09.056	6.4					T__				m_e	
DAVA	2.60		Pn	09:43:37.275	0.8					T__				m_e ML	4.5
FUR	3.70		Sn	09:44:34.038	-0.1					T__				m_e	
FUR	3.70		Pn	09:43:50.834	-0.4					T__				m_e ML	4.7
FUR	3.70		Pg	09:44:04.916	4.4					T__				m_e	
GEC2	5.10		Sn	09:45:07.096	-0.2					T__				m_e	
GEC2	5.10		Pn	09:44:09.453	-0.7					T__				m_e ML	4.3
GRA1	5.14		Sn	09:45:07.532	-0.8					T__				m_e	
GRA1	5.14		Pn	09:44:11.478	0.7					T__				m_e ML	4.7
KAST	6.53		Sn	09:45:40.638	-0.6					T__				m_e	
KAST	6.53		Pn	09:44:28.984	-0.5					T__				m_e ML	4.3
KBA	3.65		Pn	09:43:50.694	0.0					T__				m_e	
KW1			Pn	09:43:57.153	0.7					T__				m_e ML	4.4
LESA			Pn	09:43:50.146	0.7					T__				m_e	
MANZ	5.60		Sn	09:45:17.841	-1.4					T__				m_e	
MANZ	5.60		Pn	09:44:14.361	-2.5					T__				m_e ML	4.3
MOA	4.62		Pn	09:44:03.523	-0.3					T__				m_e ML	4.3
MOTA			Pn	09:43:41.267	0.8					T__				m_e	
MOX	6.13		Sn	09:45:31.204	-0.6					T__				m_e	
MOX	6.13		Pn	09:44:22.207	-1.9					T__				m_e ML	4.5
NORI			Sn	09:44:43.009	-0.7					T__				m_e	
NORI			Pn	09:43:56.361	-0.4					T__				m_e ML	4.5
OBKA	4.06		Pn	09:43:55.480	-0.7					T__				m_e	
PART			Pn	09:43:42.895	0.5					T__				m_e ML	4.2
PLONS	2.34		Pn	09:43:33.130	0.3					T__				m_e ML	4.0
RETA			Pn	09:43:41.829	0.8					T__				m_e ML	4.1
ROTZ	5.41		Sn	09:45:13.359	-1.5					T__				m_e	
ROTZ	5.41		Pn	09:44:12.485	-2.0					T__				m_e ML	4.2
SLE	3.11		Pn	09:43:42.394	-1.0					T__				m_e	
SQTA			Pn	09:43:40.250	0.8					T__				m_e	
STU	4.06		Sn	09:44:41.570	-1.2					T__				m_e	
STU	4.06		Pn	09:43:54.741	-1.5					T__				m_e ML	4.8
SULZ	2.95		Pn	09:43:40.883	-0.3					T__				m_e	

TANN	6.08	Sn	09:45:29.928	-0.7	T__	m_e		
TANN	6.08	Pn	09:44:21.407	-2.0	T__	m_e ML	4.4	
TANN	6.08	Pg	09:44:50.404	7.2	T__	m_e		
TNS	5.55	Sn	09:45:17.395	-0.7	T__	m_e		
TNS	5.55	Pn	09:44:15.489	-0.8	T__	m_e ML	4.4	
UBBA	6.12	Sn	09:45:31.908	0.2	T__	m_e		
UBBA	6.12	Pn	09:44:23.846	-0.2	T__	m_e ML	4.3	
UBR	3.01	Pn	09:43:41.894	-0.1	T__	m_e ML	4.5	
WET	5.04	Sn	09:45:05.121	-1.0	T__	m_e		
WET	5.04	Pn	09:44:08.397	-1.1	T__	m_e ML	4.3	
WTTA	3.00	Pn	09:43:42.635	0.7	T__	m_e		
ZUGS		Pn	09:43:41.709	0.8	T__	m_e ML	3.5	

Event 416006 Myanmar

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/16	11:45:21.94			22.5500	94.1700				12.7	0.9		28		66.67	71.90	m i ke	BGR
	416012																

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	416012
MBB	6.0		BGR	416012
Ms	5.9		BGR	416012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	68.61		P	11:56:24.548	0.5	80.5		6.22		TAS		58.5	1.23	m_e	MBB 6.1
ASSE	68.61		pP	11:56:28.132	0.5	80.7		6.20		TAS				m_e	
BFO	70.81		P	11:56:37.920		80.5		6.22		TAS		25.8	1.03	m_e	MBB 5.8
BFO	70.81		pP	11:56:41.274		80.7		6.20		TAS				m_e	
BRG	66.77		P	11:56:13.359	0.1	80.5		6.22		TAS		61.0	0.99	m_e	MBB 6.2
BRG	66.77		pP	11:56:16.969	0.1	80.7		6.20		TAS				m_e	
BSEG	68.53		P	11:56:24.729	-0.3	80.5		6.22		TAS		45.4	0.96	m_e	MBB 6.0
BSEG	68.53		pP	11:56:28.300	-0.4	80.7		6.20		TAS				m_e	
BUG	70.81		P	11:56:38.453		80.5		6.22		TAS		82.7	1.18	m_e	MBB 5.9
BUG	70.81		pP	11:56:42.084		80.7		6.20		TAS				m_e	
CLL	67.30		P	11:56:16.313	0.2	80.5		6.22		TAS		46.9	1.02	m_e	MBB 6.1
CLL	67.30		pP	11:56:20.032	0.2	80.7		6.20		TAS				m_e	
CLZ	68.84		P	11:56:26.599	0.1	80.5		6.22		TAS		128.5	1.29	m_e	MBB 6.2
CLZ	68.84		pP	11:56:29.973	0.2	80.7		6.20		TAS				m_e	
FLT1	68.23		P	11:56:21.808	-0.0	80.5		6.22		TAS		89.7	1.39	m_e	MBB 6.0
FLT1	68.23		pP	11:56:25.607	0.2	80.7		6.20		TAS				m_e	
GEC2	67.21		P	11:56:16.186	-0.5	80.5		6.22		TAS		67.4	0.87	m_e	MBB 6.2
GEC2	67.21		pP	11:56:19.769	-0.4	80.7		6.20		TAS				m_e	
GOR1	68.09		P	11:56:21.744	-0.7	80.5		6.22		TAS		117.9	1.09	m_e	MBB 6.3
GOR1	68.09		pP	11:56:25.419	-0.6	80.7		6.20		TAS				m_e	
GRA1	68.68		P	11:56:25.827	0.3	80.5		6.22		TAS		83.7	0.99	m_e	mb 5.9



mb	5.3	BGR	416014
Ms	5.4	BGR	416014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	84.01		P	21:35:07.486	0.1	52.4		5.01		TAS		16.1	1.03	m_e	mb 5.2
BFO	87.56		P	21:35:24.872		52.4		5.01		TAS				m_e	
BSEG	83.07		P	21:35:02.557	0.0	52.4		5.01		TAS		10.8	0.97	m_e	mb 5.0
BUG	86.08		P	21:35:17.761	-0.4	52.4		5.01		TAS				m_e	
CLZ	84.33		P	21:35:09.496	0.1	52.4		5.01		TAS		11.4	0.91	m_e	mb 5.1
FLT1	83.61		P	21:35:05.055	-0.0	52.4		5.01		TAS		20.9	1.12	m_e	mb 5.3
FUR	86.13		P	21:35:18.362	0.4	52.4		5.01		TAS				m_e	
GEC2	84.43		P	21:35:09.533	0.3	52.4		5.01		TAS		43.2	1.79	m_e	mb 5.4
GRA1	85.22		P	21:35:13.779	0.3	52.4		5.01		TAS		137.4	2.27	m_e	mb 5.8
GRA1	85.22		L	22:17:27.186						T__		1400.9	18.90	a_e	Ms 5.4
GTTG	84.71		P	21:35:11.245	0.1	52.4		5.01		TAS		59.7	2.03	m_e	mb 5.5
HLG	84.03		P	21:35:07.313	-0.0	52.4		5.01		TAS		96.6	1.06	m_e	mb 6.0
IBBN	85.29		P	21:35:13.770	0.0	52.4		5.01		TAS				m_e	
KAST	85.69		P	21:35:15.932	-0.3	52.4		5.01		TAS		21.6	1.79	m_e	mb 5.0
MANZ	84.59		P	21:35:10.553	0.2	52.4		5.01		TAS		8.2	1.82	m_e	mb 4.7
MOX	84.44		P	21:35:09.484	0.2	52.4		5.01		TAS		72.8	2.24	m_e	mb 5.5
MOX	84.44		L	22:17:14.775						T__		1845.0	18.30	a_e	Ms 5.5
NEUB	84.03		P	21:35:07.374	0.4	52.4		5.01		TAS		75.5	1.56	m_e	mb 5.7
PLN	84.26		P	21:35:08.716	0.2	52.4		5.01		TAS		27.4	2.17	m_e	mb 5.1
RETH	84.26		P	21:35:08.795	0.2	52.4		5.01		TAS		15.9	1.35	m_e	mb 5.1
RJOB	85.57		P	21:35:15.321	-0.4	52.4		5.01		TAS		92.5	2.35	m_e	mb 5.5
ROTZ	84.67		P	21:35:10.946	-0.1	52.4		5.01		TAS		18.3	1.97	m_e	mb 5.0
STU	86.84		P	21:35:21.264		52.4		5.01		TAS				m_e	
TANN	84.15		P	21:35:08.065	-0.2	52.4		5.01		TAS		63.8	2.11	m_e	mb 5.5
TNS	86.29		P	21:35:18.910		52.4		5.01		TAS				m_e	
UBBA	85.15		P	21:35:13.335	-0.1	52.4		5.01		TAS		65.3	2.34	m_e	mb 5.5
UBR	87.04		P	21:35:22.434		52.4		5.01		TAS		32.7	1.71	m_e	mb 5.2
WET	84.69		P	21:35:11.009	0.0	52.4		5.01		TAS		47.9	2.11	m_e	mb 5.4
WLF	87.79		P	21:35:26.808		52.4		5.01		TAS				m_e	

Event 417002 Kodiak Island, Alaska, United States, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/17	00:22:50.69			56.6160	-154.6000				33.0			22		69.12	75.29	m i ke	BGR
	417008																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	417008
Ms	4.7		BGR	417008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	70.94		P	00:34:03.202	-0.5	351.9		5.92		TAS		22.7	0.91	m_e	mb 5.3

BFO	74.46	P	00:34:23.749		351.9		5.92	TAS	14.4	1.08	m_e	mb	4.9
BRG	72.46	P	00:34:12.218	-0.1	351.9		5.92	TAS	34.2	1.24	m_e	mb	5.3
BSEG	69.12	P	00:33:52.426	0.1	351.9		5.92	TAS	67.3	1.68	m_e	mb	5.6
BUG	71.27	P	00:34:04.911	0.1	351.9		5.92	TAS	31.8	1.00	m_e	mb	5.4
CLL	71.96	P	00:34:08.703	0.1	351.9		5.92	TAS	18.2	1.07	m_e	mb	5.1
CLZ	71.20	P	00:34:05.128	-0.0	351.9		5.92	TAS	43.0	1.00	m_e	mb	5.5
FLT1	70.79	P	00:34:01.790	-0.2	351.9		5.92	TAS	21.1	0.87	m_e	mb	5.3
GEC2	74.46	P	00:34:24.115		351.9		5.92	TAS	11.6	0.78	m_e	mb	5.0
GRA1	73.41	L	01:08:44.074					T__	453.1	20.70	a_e	Ms	4.7
GTTG	71.45	P	00:34:06.624	0.0	351.9		5.92	TAS	53.7	1.07	m_e	mb	5.6
IBBN	70.47	P	00:34:00.533	0.3	351.9		5.92	TAS	87.9	1.49	m_e	mb	5.7
MANZ	73.19	P	00:34:16.467	-0.4	351.9		5.92	TAS	3.8	1.09	m_e	mb	4.4
MOX	72.50	P	00:34:12.609	0.3	351.9		5.92	TAS	30.0	0.98	m_e	mb	5.4
MOX	72.50	L	01:11:20.282					T__	444.4	19.50	a_e	Ms	4.8
NEUB	71.97	P	00:34:09.289	-0.1	351.9		5.92	TAS	33.9	0.90	m_e	mb	5.5
PLN	72.70	P	00:34:13.822	0.3	351.9		5.92	TAS	6.3	0.92	m_e	mb	4.7
RETH	70.22	P	00:33:59.102	-0.1	351.9		5.92	TAS	120.3	2.01	m_e	mb	5.7
ROTZ	73.42	P	00:34:18.201		351.9		5.92	TAS	4.3	0.98	m_e	mb	4.5
TANN	72.80	P	00:34:14.413	0.1	351.9		5.92	TAS	27.6	1.36	m_e	mb	5.2
TNS	72.61	P	00:34:12.999	-0.3	351.9		5.92	TAS	15.4	0.81	m_e	mb	5.2
UBR	75.29	P	00:34:28.629		351.9		5.92	TAS	14.5	0.86	m_e	mb	5.0
WET	74.10	P	00:34:22.209		351.9		5.92	TAS	35.0	1.54	m_e	mb	5.2
WLF	72.89	P	00:34:14.889		351.9		5.92	TAS	90.0	1.77	m_e	mb	5.6

Event 417008 Mid-Indian Ridge  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/17 16:30:49.25 -23.3490 68.9120 10.0 20 87.10 91.70 m i ke BGR  
 417014

Magnitude Err Nsta Author OrigID  
 mb 5.7 BGR 417014  
 Ms 5.0 BGR 417014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	90.69		P	16:43:53.109		129.1		4.69		TAS		65.3	2.12	m_e	mb	5.6
BFO	89.56		P	16:43:47.445	-0.6	129.1		4.69		TAS		266.4	2.45	m_e	mb	6.0
BRG	88.32		P	16:43:42.603	0.5	129.1		4.69		TAS		53.7	1.20	m_e	mb	5.8
CLL	89.05		P	16:43:46.029	0.4	129.1		4.69		TAS		51.9	1.24	m_e	mb	5.6
CLZ	90.66		P	16:43:52.115	0.2	129.1		4.69		TAS		48.0	1.36	m_e	mb	5.7
FLT1	90.55		P	16:43:52.464	-0.1	129.1		4.69		TAS		36.7	1.29	m_e	mb	5.5
FUR	87.90		P	16:43:40.266	0.1	129.1		4.69		TAS		327.8	1.46	m_e	mb	6.5
GEC2	87.10		P	16:43:35.725	-0.7	129.1		4.69		TAS		29.9	1.31	m_e	mb	5.3
GRA1	88.89		P	16:43:45.059	0.2	129.1		4.69		TAS		97.4	1.22	m_e	mb	5.9
GRA1	88.89		L	17:38:01.442						T__		576.3	18.50	a_e	Ms	5.0
KAST	91.23		P	16:43:55.720		129.1		4.69		TAS		100.7	2.28	m_e	mb	5.8

MANZ	88.63	P	16:43:43.716	0.1	129.1	4.69	TAS	9.7	1.19	m_e	mb	4.9
MOX	89.30	P	16:43:46.472	-0.5	129.1	4.69	TAS	52.3	1.18	m_e	mb	5.7
MOX	89.30	L	17:39:42.676				T__	558.1	21.00	a_e	Ms	5.0
NEUB	89.57	P	16:43:47.445	-0.1	129.1	4.69	TAS	522.5	2.78	m_e	mb	6.3
PLN	88.93	P	16:43:45.572	0.6	129.1	4.69	TAS	74.8	2.25	m_e	mb	5.5
RETH	91.70	P	16:43:58.219		129.1	4.69	TAS	94.8	2.19	m_e	mb	5.7
ROTZ	88.44	P	16:43:42.802	0.1	129.1	4.69	TAS	36.1	2.17	m_e	mb	5.3
TANN	88.73	P	16:43:44.352	0.2	129.1	4.69	TAS	551.9	3.24	m_e	mb	6.2
UBBA	90.21	P	16:43:52.227	-1.0	129.1	4.69	TAS	132.5	2.22	m_e	mb	5.8
UBR	88.21	P	16:43:42.174	0.5	129.1	4.69	TAS	100.2	1.00	m_e	mb	6.1
WET	87.71	P	16:43:38.734	-0.6	129.1	4.69	TAS	41.4	1.31	m_e	mb	5.6

Event 418002 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/18	08:24:52.87			28.0750	140.9950				470.0			31		86.22	92.92	m i ke	BGR
OrigID 418008																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.9		BGR	418008
MBB	7.1		BGR	418008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	89.08		P	08:37:43.189	0.3	42.7		4.65		TAS		860.3	1.59	m_e	MBB 6.9
BFO	92.92		P	08:38:00.872	0.3	42.7		4.65		TAS		1011.9	1.13	m_e	MBB 7.3
BRG	88.58		P	08:37:41.022	-0.1	42.7		4.65		TAS		542.6	0.99	m_e	MBB 7.0
BSEG	87.88		P	08:37:37.751	0.2	42.7		4.65		TAS		573.9	1.03	m_e	MBB 7.0
BUG	90.98		P	08:37:51.945	-0.2	42.7		4.65		TAS		576.3	1.00	m_e	MBB 7.0
CLL	88.68		P	08:37:41.272	0.1	42.7		4.65		TAS		970.4	1.10	m_e	MBB 7.1
CLZ	89.41		P	08:37:45.188	0.1	42.7		4.65		TAS		1653.9	1.66	m_e	MBB 7.0
FLT1	88.69		P	08:37:41.114	-0.1	42.7		4.65		TAS		914.0	1.29	m_e	MBB 7.0
FUR	91.74		P	08:37:56.016	0.1	42.7		4.65		TAS		2304.0	0.99	m_e	MBB 7.6
GEC2	90.13		P	08:37:48.166	-0.0	42.7		4.65		TAS		940.4	1.01	m_e	MBB 7.1
GOR1	88.18		P	08:37:39.311	0.0	42.7		4.65		TAS		1156.7	1.35	m_e	MBB 7.3
GRA1	90.64		P	08:37:51.058	0.0	42.7		4.65		TAS		1739.3	1.13	m_e	mb 7.3
GTTG	89.80		P	08:37:46.780	-0.2	42.7		4.65		TAS		2206.6	1.96	m_e	MBB 7.0
IBBN	90.12		P	08:37:48.239	-0.4	42.7		4.65		TAS		1755.6	1.04	m_e	MBB 7.3
KAST	90.70		P	08:37:50.962	-0.1	42.7		4.65		TAS		454.6	1.17	m_e	MBB 6.9
MANZ	90.03		P	08:37:47.930	0.2	42.7		4.65		TAS		139.4	0.99	m_e	MBB 6.4
MOX	89.77		P	08:37:46.520	-0.0	42.7		4.65		TAS		742.4	1.27	m_e	MBB 7.0
NEUB	89.30		P	08:37:44.275	0.0	42.7		4.65		TAS		1034.1	1.06	m_e	MBB 7.2
PLN	89.64		P	08:37:45.968	0.0	42.7		4.65		TAS		205.2	1.04	m_e	MBB 6.5
RETH	89.16		P	08:37:43.688	0.0	42.7		4.65		TAS		747.0	1.21	m_e	MBB 7.0
RGN	86.22		P	08:37:29.967	-0.1	42.7		4.65		TAS		570.1	0.78	m_e	MBB 7.2
RJOB	91.34		P	08:37:53.973	-0.5	42.7		4.65		TAS		1044.0	0.83	m_e	MBB 7.3
ROTZ	90.15		P	08:37:48.542	0.3	42.7		4.65		TAS		271.0	1.12	m_e	MBB 6.6

RUE	87.51	P	08:37:36.045	0.1	42.7	4.65	TAS	1187.5	1.42	m_e	MBB	7.3
STU	92.21	P	08:37:57.896	-0.3	42.7	4.65	TAS	2901.0	1.12	m_e	MBB	7.7
TANN	89.56	P	08:37:45.607	0.1	42.7	4.65	TAS	437.6	1.14	m_e	MBB	6.9
TNS	91.43	P	08:37:54.404	0.1	42.7	4.65	TAS	395.0	1.12	m_e	MBB	6.9
UBBA	90.33	P	08:37:49.008	-0.0	42.7	4.65	TAS	527.0	1.38	m_e	MBB	6.8
UBR	92.62	P	08:37:59.311		42.7	4.65	TAS	1417.8	1.71	m_e	MBB	7.2
WET	90.29	P	08:37:49.033	-0.1	42.7	4.65	TAS	552.4	1.19	m_e	MBB	6.9
WLF	92.81	P	08:38:01.000	0.5	42.7	4.65	TAS	1287.6	1.21	m_e	MBB	7.4

Event 418003 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/18	09:23:29.72			27.6050	141.0380				470.0			30		86.66	93.35	m i ke	BGR
	418009																

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	418009
MBB	6.2		BGR	418009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	93.35		P	09:36:40.037	0.1	42.9		4.64		TAS		135.3	1.04	m_e	MBB 6.5
BRG	89.00		P	09:36:20.066	-0.1	42.9		4.64		TAS		76.4	0.89	m_e	MBB 6.3
BSEG	88.32		P	09:36:16.999	0.1	42.9		4.64		TAS		68.8	0.95	m_e	MBB 6.1
BUG	91.42		P	09:36:30.932	-0.0	42.9		4.64		TAS		79.6	0.94	m_e	MBB 6.1
CLL	89.11		P	09:36:20.331	0.0	42.9		4.64		TAS		188.6	1.24	m_e	MBB 6.3
CLZ	89.84		P	09:36:24.316	-0.4	42.9		4.64		TAS		62.2	0.79	m_e	MBB 6.0
FLT1	89.12		P	09:36:20.258	0.3	42.9		4.64		TAS		82.2	0.75	m_e	MBB 6.1
FUR	92.16		P	09:36:35.046	-0.5	42.9		4.64		TAS		363.4	0.85	m_e	MBB 6.8
GEC2	90.55		P	09:36:27.237	-0.2	42.9		4.64		TAS		128.3	0.89	m_e	MBB 6.3
GOR1	88.61		P	09:36:18.386	-0.1	42.9		4.64		TAS		76.9	1.14	m_e	MBB 6.1
GRA1	91.06		P	09:36:29.891	-0.1	42.9		4.64		TAS		180.4	0.95	m_e	mb 6.4
GTTG	90.23		P	09:36:26.047	-0.3	42.9		4.64		TAS		51.8	0.69	m_e	MBB 6.0
IBBN	90.56		P	09:36:27.490	-0.4	42.9		4.64		TAS		223.1	0.87	m_e	MBB 6.6
KAST	91.13		P	09:36:30.002	-0.1	42.9		4.64		TAS		37.8	0.81	m_e	MBB 5.9
MANZ	90.45		P	09:36:27.032	0.4	42.9		4.64		TAS		17.5	0.92	m_e	MBB 5.4
MOX	90.19		P	09:36:25.536	-0.1	42.9		4.64		TAS		72.8	1.07	m_e	MBB 6.0
NEUB	89.73		P	09:36:23.527	-0.2	42.9		4.64		TAS		108.2	0.86	m_e	MBB 6.3
PLN	90.07		P	09:36:25.075	0.2	42.9		4.64		TAS		20.7	0.94	m_e	MBB 5.6
RETH	89.59		P	09:36:22.788	0.0	42.9		4.64		TAS		66.3	0.99	m_e	MBB 6.1
RGN	86.66		P	09:36:09.275	0.0	42.9		4.64		TAS		122.1	0.70	m_e	mb 6.1
RJOB	91.76		P	09:36:33.045		42.9		4.64		TAS		170.2	0.78	m_e	MBB 6.5
ROTZ	90.57		P	09:36:27.660	0.2	42.9		4.64		TAS		27.2	0.86	m_e	MBB 5.8
RUE	87.94		P	09:36:15.230	0.1	42.9		4.64		TAS		74.5	0.77	m_e	mb 6.1
STU	92.64		P	09:36:36.988	0.3	42.9		4.64		TAS		354.5	0.94	m_e	MBB 6.9
TANN	89.99		P	09:36:24.625	0.2	42.9		4.64		TAS		46.0	1.02	m_e	MBB 5.9
TNS	91.86		P	09:36:33.563	0.3	42.9		4.64		TAS		38.2	0.78	m_e	MBB 6.0



UBBA	90.76	P	09:36:28.056	-0.0	42.9	4.64	TAS	20.5	0.72	m_e	MBB	6.0
UBR	93.05	P	09:36:38.420		42.9	4.64	TAS	55.8	0.77	m_e	MBB	6.2
WET	90.71	P	09:36:28.179	-0.0	42.9	4.64	TAS	65.1	1.03	m_e	MBB	6.1
WLF	93.24	P	09:36:40.162	0.1	42.9	4.64	TAS	143.8	1.11	m_e	MBB	6.5

Event 419001 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/19	20:39:09.39		39.7050	142.1250					33.0			28		76.38	83.25	m i ke	BGR
	419007																

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	419007
MBB	6.4		BGR	419007
Ms	6.1		BGR	419007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	79.27	P		20:51:09.531	0.1	36.1		5.34		TAS		92.9	0.91	m_e	MBB 6.5
BFO	83.25	P		20:51:30.402		36.1		5.34		TAS		361.4	1.20	m_e	MBB 6.7
BRG	79.04	P		20:51:08.298	-0.1	36.1		5.34		TAS		122.2	0.95	m_e	MBB 6.4
BSEG	77.93	P		20:51:02.615	0.3	36.1		5.34		TAS		145.8	0.94	m_e	MBB 6.3
BUG	81.04	P		20:51:18.840	-0.1	36.1		5.34		TAS		136.8	1.04	m_e	MBB 6.4
CLL	79.06	P		20:51:08.223	0.0	36.1		5.34		TAS		230.4	0.90	m_e	MBB 6.4
CLZ	79.61	P		20:51:11.764	-0.3	36.1		5.34		TAS		210.0	0.93	m_e	MBB 6.4
FLT1	78.90	P		20:51:07.253	0.2	36.1		5.34		TAS		208.4	0.86	m_e	MBB 6.5
FUR	82.25	P		20:51:25.526		36.1		5.34		TAS		244.1	0.86	m_e	MBB 6.8
GEC2	80.74	P		20:51:17.301	0.3	36.1		5.34		TAS		152.6	1.19	m_e	MBB 6.3
GOR1	78.35	P		20:51:05.081	0.1	36.1		5.34		TAS			1.11	m_e	
GRA1	81.04	P		20:51:19.715	-0.6	36.1		5.34		TAS		255.0	0.93	m_e	mb 6.2
GRA1	81.04	L		21:33:49.303						T_		8890.0	19.50	a_e	Ms 6.1
GTTG	80.00	P		20:51:13.673	-0.4	36.1		5.34		TAS		173.0	0.90	m_e	MBB 6.3
IBBN	80.15	P		20:51:14.639	-0.2	36.1		5.34		TAS		196.9	0.86	m_e	MBB 6.4
KAST	80.84	P		20:51:17.974	-0.2	36.1		5.34		TAS		73.0	0.94	m_e	MBB 6.3
MANZ	80.46	P		20:51:16.142	0.2	36.1		5.34		TAS		20.1	0.81	m_e	MBB 5.7
MOX	80.12	P		20:51:14.201	-0.2	36.1		5.34		TAS		127.6	1.05	m_e	MBB 6.2
MOX	80.12	L		21:33:10.851						T_		9789.6	19.50	a_e	Ms 6.2
NEUB	79.62	P		20:51:11.601	-0.1	36.1		5.34		TAS		245.1	0.91	m_e	MBB 6.4
PLN	80.04	P		20:51:13.761	0.1	36.1		5.34		TAS			1.07	m_e	
RETH	79.24	P		20:51:09.634	0.3	36.1		5.34		TAS			1.03	m_e	
RGN	76.38	P		20:50:54.243	-0.0	36.1		5.34		TAS		341.1	0.96	m_e	MBB 6.8
RJOB	81.99	P		20:51:24.469		36.1		5.34		TAS		228.9	0.86	m_e	MBB 6.6
ROTZ	80.60	P		20:51:17.037	-0.2	36.1		5.34		TAS		66.1	1.31	m_e	MBB 5.9
STU	82.56	P		20:51:27.772	-0.0	36.1		5.34		TAS		401.4	0.93	m_e	MBB 7.1
TANN	79.98	P		20:51:13.482	0.2	36.1		5.34		TAS		45.7	0.92	m_e	MBB 6.3
TNS	81.64	P		20:51:22.189	0.6	36.1		5.34		TAS		186.6	1.23	m_e	MBB 6.4
UBR	83.10	P		20:51:30.183		36.1		5.34		TAS		85.4	1.04	m_e	MBB 6.6

WET 80.83 P 20:51:18.211 -0.1 36.1 5.34 TAS 104.7 1.05 m\_e MBB 6.4

Event 420002 Iceland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/20	03:54:50.75			64.5500	-17.7230				10.0					20.73	21.36	m i ke	BGR
OrigID 420008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	420008
Ms	4.0		BGR	420008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	21.36		P	03:59:37.514		323.6		10.65		TAS		50.2	1.38	m_e mb	4.7
GRA1	21.36		L	04:09:07.317						T__		636.4	18.80	a_e Ms	4.0
MOX	20.73		L	04:07:41.812						T__		831.9	21.90	a_e Ms	4.1

Event 420003 Kyushu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2020/04/20	11:38:50.29			30.9710	131.1880				150.0					19	81.55	85.97	m i ke	BGR
OrigID 420009																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	420009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.97		P	11:51:10.887		48.4		5.10		TAS		20.9	1.19	m_e mb	5.2
BRG	81.55		P	11:50:48.924	0.8	48.4		5.10		TAS		7.1	0.81	m_e mb	4.8
BUG	84.30		P	11:51:03.088	-0.2	48.4		5.10		TAS		16.8	0.90	m_e mb	5.3
CLL	81.72		P	11:50:49.636	0.2	48.4		5.10		TAS		26.4	0.77	m_e mb	5.4
CLZ	82.61		P	11:50:54.590	0.1	48.4		5.10		TAS		19.2	1.03	m_e mb	5.3
FLT1	81.89		P	11:50:50.268	-0.1	48.4		5.10		TAS		16.0	0.79	m_e mb	5.2
GEC2	82.96		P	11:50:55.761		48.4		5.10		TAS		5.4	0.80	m_e mb	4.8
GRA1	83.64		P	11:51:00.580		48.4		5.10		TAS		37.8	0.82	m_e mb	5.7
GTTG	83.00		P	11:50:56.776	0.1	48.4		5.10		TAS		17.4	1.07	m_e mb	5.2
KAST	83.94		P	11:51:01.173	0.0	48.4		5.10		TAS		14.6	0.97	m_e mb	5.2
MANZ	83.02		P	11:50:56.578		48.4		5.10		TAS		1.6	0.78	m_e mb	4.3
MOX	82.82		P	11:50:55.621	-0.5	48.4		5.10		TAS		21.9	1.49	m_e mb	5.2
NEUB	82.39		P	11:50:53.390	0.4	48.4		5.10		TAS		26.7	0.86	m_e mb	5.5
PLN	82.66		P	11:50:54.817	-0.7	48.4		5.10		TAS		2.5	0.96	m_e mb	4.4
ROTZ	83.11		P	11:50:57.462		48.4		5.10		TAS		8.8	1.35	m_e mb	4.8
TANN	82.56		P	11:50:54.035		48.4		5.10		TAS		7.6	1.17	m_e mb	4.8

./bul2004.txt

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TNS	84.60	P	11:51:04.805	48.4	5.10	TAS	20.2	0.96	m_e	mb	5.3
UBBA	83.47	P	11:50:58.685	0.5 48.4	5.10	TAS	51.2	1.66	m_e	mb	5.5
WET	83.18	P	11:50:57.866	48.4	5.10	TAS	5.7	0.68	m_e	mb	4.9

Event 421003 Nicobar Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/21	00:09:09.58		9.1940	92.4130					38.0	2.1		7		75.65	79.40	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	421009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	79.28		P	00:21:10.610		90.7		5.60		TAS		4.3	0.84	m_e	mb	4.5
BRG	75.65		P	00:20:50.997	-0.1	90.7		5.60		TAS		6.1	1.07	m_e	mb	4.7
BRG	75.65		pP	00:21:02.020	-0.2	90.7		5.37		TAS				m_e		
BSEG	77.97		P	00:21:03.706	-0.8	90.7		5.60		TAS		4.9	0.86	m_e	mb	4.7
CLL	76.26		P	00:20:54.271	0.2	90.7		5.60		TAS		5.3	0.98	m_e	mb	4.6
CLZ	77.92		P	00:21:03.761	0.1	90.7		5.60		TAS		6.1	0.74	m_e	mb	4.8
CLZ	77.92		pP	00:21:14.085		90.7		5.37		TAS				m_e		
GEC2	75.72		P	00:20:51.473	-0.0	90.7		5.60		TAS		10.2	0.97	m_e	mb	4.9
GRA1	77.36		P	00:21:01.264	0.0	90.7		5.60		TAS		7.7	0.86	m_e	mb	4.8
GTTG	78.17		P	00:21:05.647		90.7		5.60		TAS				m_e		
HLG	79.40		pP	00:21:22.324		90.7		5.37		TAS				m_e		
KAST	79.14		P	00:21:10.818		90.7		5.60		TAS		6.7	1.08	m_e	mb	4.6
MOX	77.12		P	00:20:59.618	-0.0	90.7		5.60		TAS		3.7	1.11	m_e	mb	4.4
MOX	77.12		pP	00:21:10.458		90.7		5.37		TAS				m_e		
PLN	76.77		P	00:20:57.460	0.3	90.7		5.60		TAS		1.6	0.90	m_e	mb	4.1
PLN	76.77		pP	00:21:08.270		90.7		5.37		TAS				m_e		
RUE	75.84		P	00:20:51.870	-0.2	90.7		5.60		TAS		14.7	0.79	m_e	mb	5.2
RUE	75.84		pP	00:21:03.336	0.0	90.7		5.37		TAS				m_e		
STU	78.69		P	00:21:08.312		90.7		5.60		TAS		14.0	0.66	m_e	mb	5.1
TANN	76.58		P	00:20:56.521	0.1	90.7		5.60		TAS		8.3	1.31	m_e	mb	4.7
TNS	79.15		P	00:21:10.741		90.7		5.60		TAS		4.1	0.70	m_e	mb	4.6
UBR	78.10		P	00:21:04.802		90.7		5.60		TAS		7.4	0.69	m_e	mb	4.9
WET	76.27		P	00:20:54.436	-0.3	90.7		5.60		TAS		9.8	1.11	m_e	mb	4.8
WET	76.27		pP	00:21:05.528	0.3	90.7		5.37		TAS				m_e		

Event 422002 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/22	06:51:10.16		47.0820	152.9060					33.0			22		75.06	80.09	m i ke	BGR

422008

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	422008
Ms	5.0		BGR	422008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	76.01		P	07:02:52.490	-0.3	25.6		5.57		TAS		31.3	0.88	m_e	mb 5.5
BFO	80.09		P	07:03:14.462		25.6		5.57		TAS		25.0	0.98	m_e	mb 5.1
BRG	76.22		P	07:02:53.241	0.2	25.6		5.57		TAS		20.0	0.96	m_e	mb 5.2
BUG	77.51		P	07:03:00.555	-0.4	25.6		5.57		TAS		39.4	1.04	m_e	mb 5.5
CLL	76.11		P	07:02:52.699	-0.2	25.6		5.57		TAS		58.5	0.75	m_e	mb 5.8
CLZ	76.35		P	07:02:54.715	0.2	25.6		5.57		TAS		49.6	0.90	m_e	mb 5.6
FLT1	75.68		P	07:02:50.023	-0.2	25.6		5.57		TAS		48.0	0.85	m_e	mb 5.7
GEC2	78.10		P	07:03:04.224		25.6		5.57		TAS		14.5	0.92	m_e	mb 5.1
GOR1	75.06		P	07:02:47.250	-0.6	25.6		5.57		TAS		278.4	1.84	m_e	mb 6.0
GRA1	78.06		P	07:03:04.081		25.6		5.57		TAS		51.8	0.85	m_e	mb 5.7
GRA1	78.06		L	07:40:19.353						T__		656.6	18.50	a_e	Ms 5.0
GTTG	76.72		P	07:02:56.818	-0.3	25.6		5.57		TAS		51.8	1.12	m_e	mb 5.6
IBBN	76.59		P	07:02:55.806	0.4	25.6		5.57		TAS				m_e	
KAST	77.44		P	07:03:00.612	0.1	25.6		5.57		TAS		32.9	0.90	m_e	mb 5.5
MANZ	77.54		P	07:03:01.022	-0.7	25.6		5.57		TAS		5.5	1.02	m_e	mb 4.6
MOX	77.09		P	07:02:58.249	0.2	25.6		5.57		TAS		31.5	1.00	m_e	mb 5.4
MOX	77.09		L	07:39:39.157						T__		690.5	19.30	a_e	Ms 5.0
NEUB	76.55		P	07:02:55.203	-0.1	25.6		5.57		TAS		33.6	0.85	m_e	mb 5.5
PLN	77.08		P	07:02:58.556	0.2	25.6		5.57		TAS		9.9	1.13	m_e	mb 4.8
RETH	75.80		P	07:02:51.155	0.1	25.6		5.57		TAS		36.4	1.12	m_e	mb 5.4
ROTZ	77.71		P	07:03:02.197		25.6		5.57		TAS		7.1	1.01	m_e	mb 4.8
TANN	77.06		P	07:02:58.206	0.5	25.6		5.57		TAS		91.4	1.95	m_e	mb 5.6
TNS	78.33		P	07:03:05.565	0.2	25.6		5.57		TAS		24.5	0.78	m_e	mb 5.4
WET	78.07		P	07:03:04.500		25.6		5.57		TAS		30.8	0.91	m_e	mb 5.4

Event 422005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/22	13:00:29.30			-21.1400	169.6000				83.0					146.75	146.75	m i ke	EMSC

OrigID 422037

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.75		PKPbc	13:20:00.648		38.9		2.91		TAS				m_e	

Event 422004 Tonga Islands region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/22 22:31:24.80 -22.0800 -175.4900 40.0 150.95 151.94 m i ke EMSC  
 422036

Magnitude Err Nsta Author OrigID  
 Ms 5.1 BGR 422010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	151.94		PKP	22:51:16.281		13.3		1.47		TAS				m_e	
GRA1	151.94		L	23:55:24.243						T__		385.4	22.00	a_e Ms	5.2
MOX	150.95		L	23:57:07.021						T__		236.9	21.60	a_e Ms	5.0

Event 423003 Kuril Islands, Russia  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/04/23 15:32:30.80 47.5570 151.1570 33.0 23 73.58 79.18 m i ke BGR  
 423009

Magnitude Err Nsta Author OrigID  
 mb 5.0 BGR 423009  
 Ms 4.3 BGR 423009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	75.10		P	15:44:07.636	-0.4	26.5		5.64		TAS		16.3	0.94	m_e mb	5.0
BFO	79.18		P	15:44:29.872		26.5		5.64		TAS				m_e	
BRG	75.27		P	15:44:08.294	-0.1	26.5		5.64		TAS		7.3	1.03	m_e mb	4.7
BSEG	73.58		P	15:43:58.866	0.2	26.5		5.64		TAS		8.6	0.84	m_e mb	4.8
BUG	76.63		P	15:44:16.112	0.0	26.5		5.64		TAS		20.3	0.91	m_e mb	5.2
CLL	75.17		P	15:44:07.528	-0.3	26.5		5.64		TAS		23.8	0.70	m_e mb	5.3
CLZ	75.44		P	15:44:09.874	0.1	26.5		5.64		TAS		23.4	0.86	m_e mb	5.2
FLT1	74.76		P	15:44:05.152	0.1	26.5		5.64		TAS		24.6	0.89	m_e mb	5.2
GEC2	77.14		P	15:44:18.962		26.5		5.64		TAS				m_e	
GRA1	77.13		P	15:44:19.524		26.5		5.64		TAS				m_e	
GRA1	77.13		L	16:21:36.654						T__		161.9	19.90	a_e Ms	4.3
GTTG	75.82		P	15:44:11.727	-0.2	26.5		5.64		TAS		10.8	0.73	m_e mb	5.1
IBBN	75.71		P	15:44:11.034	0.2	26.5		5.64		TAS		22.0	0.89	m_e mb	5.3
KAST	76.55		P	15:44:15.663	-0.1	26.5		5.64		TAS		18.1	0.88	m_e mb	5.2
MANZ	76.61		P	15:44:16.071	-0.6	26.5		5.64		TAS		3.6	1.02	m_e mb	4.4
MOX	76.16		P	15:44:13.206	-0.0	26.5		5.64		TAS		15.7	0.98	m_e mb	5.1
MOX	76.16		L	16:21:26.676						T__		145.2	18.40	a_e Ms	4.3
PLN	76.15		P	15:44:13.307	0.6	26.5		5.64		TAS		4.6	1.09	m_e mb	4.5
RETH	74.91		P	15:44:06.174	0.1	26.5		5.64		TAS		11.5	0.97	m_e mb	4.9
RJOB	78.40		P	15:44:26.259		26.5		5.64		TAS				m_e	
ROTZ	76.77		P	15:44:16.926	0.1	26.5		5.64		TAS		3.4	1.00	m_e mb	4.4

TANN	76.12	P	15:44:13.242	0.5	26.5	5.64	TAS	8.7	1.22	m_e mb	4.8
TNS	77.43	P	15:44:20.462	-0.0	26.5	5.64	TAS	16.2	0.88	m_e mb	5.2
UBBA	76.46	P	15:44:15.195	0.1	26.5	5.64	TAS	17.3	1.55	m_e mb	5.0
WET	77.12	P	15:44:19.426		26.5	5.64	TAS			m_e	

Event 423004 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/23	19:52:28.85			42.1570	141.9130				33.0			30		74.14	81.03	m i ke	BGR
	423010																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	423010
Ms	4.8		BGR	423010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	77.04	P		20:04:17.212	0.2	35.0		5.51		TAS		19.3	1.06	m_e mb	5.2
BFO	81.03	P		20:04:39.126	0.1	35.0		5.51		TAS		46.4	1.41	m_e mb	5.3
BRG	76.85	P		20:04:15.463	-0.7	35.0		5.51		TAS		24.9	1.37	m_e mb	5.2
BSEG	75.68	P		20:04:09.330	0.1	35.0		5.51		TAS		19.4	0.98	m_e mb	5.2
BUG	78.79	P		20:04:26.072	-0.5	35.0		5.51		TAS		33.7	1.13	m_e mb	5.3
CLL	76.86	P		20:04:15.466	-0.2	35.0		5.51		TAS		28.2	1.06	m_e mb	5.3
CLZ	77.38	P		20:04:18.925	0.6	35.0		5.51		TAS		46.1	1.20	m_e mb	5.5
FLT1	76.67	P		20:04:14.287	0.3	35.0		5.51		TAS		37.3	0.99	m_e mb	5.5
FUR	80.07	P		20:04:33.701	0.2	35.0		5.51		TAS		45.3	1.03	m_e mb	5.3
GEC2	78.57	P		20:04:25.205	0.3	35.0		5.51		TAS		10.8	1.01	m_e mb	4.8
GOR1	76.11	P		20:04:11.812	-0.0	35.0		5.51		TAS		56.3	1.29	m_e mb	5.5
GRA1	78.83	P		20:04:27.203	0.3	35.0		5.51		TAS		48.9	1.06	m_e mb	5.5
GRA1	78.83	L		20:42:33.364						T__		428.4	20.10	a_e Ms	4.8
GTTG	77.77	P		20:04:21.452	-0.4	35.0		5.51		TAS		23.2	0.97	m_e mb	5.3
IBBN	77.89	P		20:04:21.946	-0.6	35.0		5.51		TAS		34.1	1.01	m_e mb	5.4
KAST	78.59	P		20:04:25.239	-0.3	35.0		5.51		TAS		20.5	1.15	m_e mb	5.0
MANZ	78.26	P		20:04:23.581	0.2	35.0		5.51		TAS		3.3	1.07	m_e mb	4.4
MOX	77.91	P		20:04:21.500	-0.2	35.0		5.51		TAS		17.9	1.12	m_e mb	5.1
MOX	77.91	L		20:41:54.945						T__		393.2	19.80	a_e Ms	4.7
NEUB	77.40	P		20:04:18.661	-0.4	35.0		5.51		TAS		40.4	1.07	m_e mb	5.5
PLN	77.84	P		20:04:21.118	-0.2	35.0		5.51		TAS		7.6	1.38	m_e mb	4.6
RETH	76.99	P		20:04:16.533	0.3	35.0		5.51		TAS		36.2	1.24	m_e mb	5.4
RGN	74.14	P		20:04:01.297	0.4	35.0		5.51		TAS		65.0	1.19	m_e mb	5.5
RJOB	79.82	P		20:04:32.473		35.0		5.51		TAS		25.4	0.93	m_e mb	5.1
ROTZ	78.40	P		20:04:24.628	-0.2	35.0		5.51		TAS		5.4	1.09	m_e mb	4.6
RUE	75.63	P		20:04:09.508	0.5	35.0		5.51		TAS		54.1	1.20	m_e mb	5.5
STU	80.35	P		20:04:35.390	0.2	35.0		5.51		TAS		82.6	0.98	m_e mb	5.6
TANN	77.78	P		20:04:20.817	-0.1	35.0		5.51		TAS		11.5	1.28	m_e mb	4.8
TNS	79.40	P		20:04:29.826	-0.1	35.0		5.51		TAS		19.4	1.15	m_e mb	5.0
UBBA	78.35	P		20:04:23.437	-0.2	35.0		5.51		TAS		25.3	1.66	m_e mb	5.1

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WET	78.65	P	20:04:26.066	-0.1	35.0	5.51	TAS	27.5	1.10	m_e	mb	5.2
WLF	80.67	P	20:04:36.636	0.4	35.0	5.51	TAS	111.2	2.16	m_e	mb	5.5

Event 424001 Off coast of Chiapas, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/24	00:30:40.03			13.7810	-93.0640				33.0					88.52	88.61	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	424007
Ms	4.8		BGR	424007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	88.61		P	00:43:29.395		280.3		5.56		TAS		25.9	1.61	m_e	mb 5.2
GRA1	88.61		L	01:26:07.073						T__		404.4	18.10	a_e	Ms 4.9
MOX	88.52		L	01:23:16.327						T__		373.3	22.00	a_e	Ms 4.8

Event 424004 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2020/04/24	13:15:53.91			35.4080	28.5460				33.0					18	17.32	21.69	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	424010
Ms	3.2		BGR	424010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	19.76		P	13:20:22.966		132.0		10.95		TAS		37.0	0.64	m_e	mb 4.8
BRG	18.72		P	13:20:10.318	1.5	132.0		10.95		TAS		30.5	0.72	m_e	mb 4.6
CLL	19.43		P	13:20:18.330	-0.6	132.0		10.95		TAS		62.8	0.57	m_e	mb 5.0
FUR	18.07		P	13:20:02.714		132.0		10.95		TAS		143.0	0.81	m_e	mb 5.2
GEC2	17.32		P	13:19:54.559		132.0		10.95		TAS		53.4	0.76	m_e	mb 4.8
GRA1	19.08		P	13:20:13.982		132.0		10.95		TAS		53.5	0.81	m_e	mb 4.8
GRA1	19.08		L	13:28:13.028						T__		134.3	19.30	a_e	Ms 3.3
GTTG	20.93		P	13:20:33.934	-0.7	132.0		10.95		TAS		55.6	0.85	m_e	mb 4.9
KAST	21.43		P	13:20:38.193	-0.9	132.0		10.95		TAS		16.0	0.78	m_e	mb 4.4
MANZ	18.86		P	13:20:11.848		132.0		10.95		TAS		12.5	0.77	m_e	mb 4.2
MOX	19.55		P	13:20:19.056	-0.4	132.0		10.95		TAS		62.0	1.03	m_e	mb 4.8
MOX	19.55		L	13:28:39.903						T__		117.2	21.70	a_e	Ms 3.2
PLN	19.20		P	13:20:15.387		132.0		10.95		TAS		24.7	0.96	m_e	mb 4.4
ROTZ	18.67		P	13:20:09.299		132.0		10.95		TAS		16.4	1.01	m_e	mb 4.2





GRA1	126.91	PKPdf	03:12:09.125	48.4	1.28	TAS											m_e	
GRA1	126.91	L	04:11:53.262			T__						8548.4	20.00	a_e	Ms		6.4	
MOX	126.08	L	04:09:57.065			T__						8184.4	20.10	a_e	Ms		6.4	

Event 425003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/25	03:01:00.90			-18.6400	-175.3700				229.0					148.57	148.57	m i ke	EMSC
OrigID 425035																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	148.57		PKPbc	03:20:21.109		12.1		2.04		TAS					m_e
GRA1	148.57		PKPab	03:20:24.189		12.1		3.65		TAS					m_e

Event 426001 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/26	00:49:13.98			36.4480	140.1630				80.0				22	80.12	85.32	m i ke	BGR
OrigID 426007																	

Magnitude Err Nsta Author OrigID

mb 4.8 BGR 426007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.32		P	01:01:39.908		39.1		5.17		TAS		10.5	0.90	m_e mb	5.1
BRG	81.04		P	01:01:18.136	0.4	39.1		5.17		TAS		8.5	0.88	m_e mb	4.8
BSEG	80.12		P	01:01:13.545	0.0	39.1		5.17		TAS		8.6	0.94	m_e mb	4.7
CLL	81.10		P	01:01:18.246	0.1	39.1		5.17		TAS		17.6	0.90	m_e mb	5.1
CLZ	81.73		P	01:01:21.951	-0.1	39.1		5.17		TAS		13.5	0.99	m_e mb	5.0
FLT1	81.02		P	01:01:17.440	-0.3	39.1		5.17		TAS		15.6	0.88	m_e mb	5.0
FUR	84.23		P	01:01:34.996		39.1		5.17		TAS		15.8	0.81	m_e mb	5.3
GEC2	82.67		P	01:01:26.495		39.1		5.17		TAS		5.0	0.90	m_e mb	4.8
GOR1	80.48		P	01:01:15.560	-0.0	39.1		5.17		TAS		16.8	1.16	m_e mb	5.0
GRA1	83.07		P	01:01:29.153		39.1		5.17		TAS		19.9	0.88	m_e mb	5.3
GTTG	82.12		P	01:01:23.892	-0.1	39.1		5.17		TAS		11.2	0.89	m_e mb	5.0
IBBN	82.36		P	01:01:24.912	0.1	39.1		5.17		TAS		14.6	0.90	m_e mb	5.2
KAST	82.99		P	01:01:28.235	-0.2	39.1		5.17		TAS		3.3	0.77	m_e mb	4.6
MANZ	82.48		P	01:01:25.824	0.1	39.1		5.17		TAS		1.5	0.80	m_e mb	4.3
MOX	82.17		P	01:01:24.170	-0.2	39.1		5.17		TAS		5.7	0.95	m_e mb	4.7
NEUB	81.68		P	01:01:21.469	0.2	39.1		5.17		TAS		17.6	0.91	m_e mb	5.2
PLN	82.07		P	01:01:23.613	-0.2	39.1		5.17		TAS		1.4	0.85	m_e mb	4.1



Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	427009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	77.85		P	04:25:57.535		10.5		5.25		TAS		3.9	1.02	m_e	mb	4.5

Event 428001 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/28	00:13:42.90			-16.3500	-172.9800				10.0					145.59	146.57	m i ke	EMSC
OrigID 428033																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.4		BGR	428007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	146.57		PKPab	00:33:25.726		7.3		3.46		TAS				m_e		
GRA1	146.57		L	01:40:16.700						T__		66.5	21.50	a_e	Ms	4.4
MOX	145.59		L	01:36:09.661						T__		64.1	21.90	a_e	Ms	4.4

Event 428003 Hindu Kush, Afghanistan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/28	11:15:35.82			36.7530	70.7640				182.7					44.16	44.16	m i ke	BGR
OrigID 428009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	428009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	44.16		P	11:23:24.909		92.4		7.04		TAS		9.3	0.85	m_e	mb	4.5
GRA1	44.16		pP	11:24:04.797		93.0		7.41		TAS				m_e		

Event 430003 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/04/30	08:20:34.23			2.2570	97.9950				12.3	1.5		25		83.26	89.50	m i ke	BGR
OrigID 430009																	

Magnitude	Err	Nsta	Author	OrigID
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mb 5.1 BGR 430009  
 Ms 4.4 BGR 430009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	83.26		P	08:33:00.720	0.2	91.0		4.92		TAS		12.0	1.19	m_e	mb 5.0
ASSE	86.59		P	08:33:16.490		91.0		4.92		TAS		20.3	1.03	m_e	mb 5.2
ASSE	86.59		pP	08:33:20.103						T__				m_e	
BFO	88.12		P	08:33:24.730		91.0		4.92		TAS		13.6	1.12	m_e	mb 5.2
BRG	84.51		P	08:33:06.825	-0.1	91.0		4.92		TAS		4.1	0.79	m_e	mb 4.7
BSEG	86.82		P	08:33:18.288		91.0		4.92		TAS		13.4	1.09	m_e	mb 5.0
BUG	88.71		P	08:33:27.560		91.0		4.92		TAS		10.6	0.79	m_e	mb 5.1
CLL	85.12		P	08:33:09.704	-0.3	91.0		4.92		TAS		6.4	0.63	m_e	mb 5.0
CLZ	86.77		P	08:33:17.719		91.0		4.92		TAS		25.6	1.08	m_e	mb 5.3
FLT1	86.25		P	08:33:14.476	-0.1	91.0		4.92		TAS		11.6	0.92	m_e	mb 5.0
GEC2	84.57		P	08:33:06.889	0.5	91.0		4.92		TAS		100.8	2.41	m_e	mb 5.6
GOR1	86.22		P	08:33:15.236	0.2	91.0		4.92		TAS		10.8	0.97	m_e	mb 4.9
GRA1	86.22		P	08:33:15.635	-0.1	91.0		4.92		TAS		12.2	0.63	m_e	mb 5.2
GRA1	86.22		L	09:18:24.785						T__		153.8	18.30	a_e	Ms 4.4
GTTG	87.03		P	08:33:19.347		91.0		4.92		TAS		21.9	0.84	m_e	mb 5.3
GTTG	87.03		pP	08:33:22.495						T__				m_e	
IBBN	88.38		P	08:33:26.168		91.0		4.92		TAS		17.8	0.94	m_e	mb 5.4
KAST	88.00		P	08:33:23.738		91.0		4.92		TAS		12.1	1.16	m_e	mb 5.1
KAST	88.00		pP	08:33:27.349						T__				m_e	
KBA	84.73		P	08:33:06.805	-0.0	91.0		4.92		TAS		12.6	1.34	m_e	mb 5.0
MOX	85.98		L	09:18:05.057						T__		149.9	20.90	a_e	Ms 4.4
NEUB	85.89		P	08:33:13.203	-0.1	91.0		4.92		TAS		15.4	0.58	m_e	mb 5.3
OBKA	83.88		P	08:33:03.753	0.2	91.0		4.92		TAS		11.8	1.24	m_e	mb 5.0
RETH	87.40		P	08:33:20.389		91.0		4.92		TAS		16.9	1.28	m_e	mb 5.0
RUE	84.70		P	08:33:08.092	-0.0	91.0		4.92		TAS		24.8	0.55	m_e	mb 5.7
TANN	85.43		P	08:33:11.525	0.6	91.0		4.92		TAS		3.6	0.67	m_e	mb 4.7
TNS	88.00		P	08:33:23.776		91.0		4.92		TAS		19.3	0.94	m_e	mb 5.4
TNS	88.00		pP	08:33:27.600						T__				m_e	
UBBA	87.01		P	08:33:18.966		91.0		4.92		TAS		11.7	1.14	m_e	mb 4.9
WET	85.12		P	08:33:09.660	0.1	91.0		4.92		TAS		8.1	0.95	m_e	mb 4.9
WET	85.12		pP	08:33:13.361						T__				m_e	
WLF	89.50		P	08:33:31.305		91.0		4.92		TAS		18.5	1.04	m_e	mb 5.2