

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

(produced by SZO/BGR - HANNOVER)

January 2019

UPDATED 21.January 2021

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

Event 90101001 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/01	03:03:29.64			61.5850	-150.8550				33.0			22		65.26	70.24	m i ke	BGR
OrigID 90101007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	90101007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	69.17		P	03:14:30.351		350.9		6.30		TAS		33.3	1.17	m_e mb	5.5
BRG	67.24		P	03:14:18.952	0.3	350.9		6.30		TAS		48.9	1.05	m_e mb	5.7
BUG	65.98		P	03:14:10.780	0.0	350.9		6.30		TAS		86.4	1.35	m_e mb	5.8
CLL	66.72		P	03:14:15.138	-0.1	350.9		6.30		TAS		36.1	0.98	m_e mb	5.6
CLZ	65.94		P	03:14:11.379	-0.0	350.9		6.30		TAS		91.2	1.08	m_e mb	5.9
FLT1	65.54		P	03:14:07.566	0.4	350.9		6.30		TAS		31.9	1.09	m_e mb	5.5
FUR	69.67		P	03:14:34.450		350.9		6.30		TAS		69.4	0.90	m_e mb	5.8
GEC2	69.23		P	03:14:31.583		350.9		6.30		TAS		27.4	1.10	m_e mb	5.4
GTTG	66.18		P	03:14:12.911	0.1	350.9		6.30		TAS		85.8	0.98	m_e mb	5.9
KAST	66.35		P	03:14:13.584	0.1	350.9		6.30		TAS		41.3	1.24	m_e mb	5.5
MANZ	67.95		P	03:14:23.437	-0.0	350.9		6.30		TAS		10.9	1.35	m_e mb	4.9
MOX	67.25		P	03:14:19.172	-0.8	350.9		6.30		TAS		56.5	1.01	m_e mb	5.8
NEUB	66.72		P	03:14:16.212	0.4	350.9		6.30		TAS		64.6	1.00	m_e mb	5.8
NRDL	65.26		P	03:14:06.553	0.1	350.9		6.30		TAS		52.8	1.08	m_e mb	5.7
RJOB	70.24		P	03:14:37.979		350.9		6.30		TAS		30.4	0.78	m_e mb	5.5
ROTZ	68.17		P	03:14:25.348		350.9		6.30		TAS		9.3	0.99	m_e mb	5.0
RUE	65.63		P	03:14:08.909	-0.7	350.9		6.30		TAS		118.5	0.96	m_e mb	6.1
TANN	67.56		P	03:14:21.143	0.1	350.9		6.30		TAS		56.3	1.23	m_e mb	5.7
TNS	67.32		P	03:14:19.687	0.0	350.9		6.30		TAS		50.4	1.36	m_e mb	5.6
UBR	70.02		P	03:14:36.482		350.9		6.30		TAS		33.6	0.94	m_e mb	5.5
WET	68.85		P	03:14:29.524		350.9		6.30		TAS		46.8	1.16	m_e mb	5.6

WLF 67.58 P 03:14:21.451 -0.1 350.9 6.30 TAS 58.5 1.28 m\_e mb 5.7

## Event 90102002 Western Nei Mongol, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/02	03:12:55.76			41.2710	104.0150				33.0			16		59.48	63.92	m i ke	BGR
OrigID 90102008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90102008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	63.92		P	03:23:21.974		58.8		6.77		TAS		5.4	0.85	m_e mb	4.8
BRG	59.48		P	03:22:53.077	0.5	58.8		6.77		TAS		15.6	1.07	m_e mb	5.0
BUG	62.80		P	03:23:16.252	0.7	58.8		6.77		TAS		46.0	1.25	m_e mb	5.5
CLL	59.79		P	03:22:55.327	-0.2	58.8		6.77		TAS		14.5	0.78	m_e mb	5.1
CLZ	60.95		P	03:23:03.917	0.1	58.8		6.77		TAS		21.1	0.91	m_e mb	5.0
FLT1	60.24		P	03:22:57.677	-0.4	58.8		6.77		TAS		13.6	0.92	m_e mb	5.0
FUR	62.36		P	03:23:14.104		58.8		6.77		TAS		23.3	0.93	m_e mb	5.4
GRA1	61.59		P	03:23:08.723		58.8		6.77		TAS		23.0	0.87	m_e mb	5.4
GTTG	61.32		P	03:23:06.649	0.6	58.8		6.77		TAS		30.4	0.91	m_e mb	5.1
MANZ	60.94		P	03:23:03.686		58.8		6.77		TAS		4.9	1.54	m_e mb	4.1
MOX	60.88		P	03:23:03.019		58.8		6.77		TAS		10.8	1.12	m_e mb	4.6
NRDL	60.75		P	03:23:02.709	-0.5	58.8		6.77		TAS		23.0	1.00	m_e mb	5.0
ROTZ	61.00		P	03:23:04.608		58.8		6.77		TAS		2.6	0.93	m_e mb	4.0
STU	63.20		P	03:23:18.681		58.8		6.77		TAS		16.6	0.80	m_e mb	5.2
TANN	60.53		P	03:23:00.456		58.8		6.77		TAS		9.1	1.01	m_e mb	4.5
UBR	63.28		P	03:23:19.876		58.8		6.77		TAS		10.6	0.97	m_e mb	4.9

## Event 90102001 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/02	06:48:45.23			59.2340	-154.3010				33.0			25		67.87	72.68	m i ke	BGR
OrigID 90102007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	90102007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	71.86		P	07:00:02.879		352.2		6.11		TAS		31.9	1.25	m_e mb	5.3
BRG	69.84		P	06:59:50.756	0.0	352.2		6.11		TAS		45.9	1.17	m_e mb	5.5
BUG	68.67		P	06:59:43.523	-0.1	352.2		6.11		TAS		59.4	1.16	m_e mb	5.7
CLL	69.33		P	06:59:47.456	0.0	352.2		6.11		TAS		36.0	1.20	m_e mb	5.5

Station	Mag	Phase	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
CLZ	68.59	P	06:59:43.710	-0.1	352.2					6.11	TAS	102.3	1.29	m_e	mb			5.9	
FLT1	68.18	P	06:59:40.350	0.1	352.2					6.11	TAS	33.8	1.12	m_e	mb			5.5	
FUR	72.31	P	07:00:06.041		352.2					6.11	TAS	52.9	1.13	m_e	mb			5.6	
GEC2	71.84	P	07:00:03.175		352.2					6.11	TAS	43.8	1.39	m_e	mb			5.4	
GRA1	70.79	P	06:59:56.654	-0.0	352.2					6.11	TAS	53.2	1.29	m_e	mb			5.5	
GTTG	68.84	P	06:59:45.390	-0.1	352.2					6.11	TAS	95.4	1.16	m_e	mb			5.9	
IBBN	67.87	P	06:59:38.614	-0.4	352.2					6.11	TAS	59.0	1.19	m_e	mb			5.7	
KAST	69.03	P	06:59:46.025	0.4	352.2					6.11	TAS	29.2	1.21	m_e	mb			5.4	
MANZ	70.58	P	06:59:55.471	0.1	352.2					6.11	TAS	6.7	1.23	m_e	mb			4.6	
MOX	69.88	P	06:59:51.237	0.6	352.2					6.11	TAS	68.5	1.26	m_e	mb			5.6	
NEUB	69.35	P	06:59:47.816	0.1	352.2					6.11	TAS	99.8	1.39	m_e	mb			5.9	
NRDL	67.92	P	06:59:38.944	0.5	352.2					6.11	TAS	62.7	1.22	m_e	mb			5.7	
ROTZ	70.80	P	06:59:57.027	-0.1	352.2					6.11	TAS	11.5	1.23	m_e	mb			4.9	
RUE	68.23	P	06:59:41.290	-0.2	352.2					6.11	TAS	91.2	1.17	m_e	mb			5.9	
STU	71.51	P	07:00:01.063		352.2					6.11	TAS	48.5	0.94	m_e	mb			5.6	
TANN	70.18	P	06:59:53.410	-0.1	352.2					6.11	TAS	35.5	1.27	m_e	mb			5.3	
TNS	70.00	P	06:59:51.979	0.2	352.2					6.11	TAS	49.3	1.33	m_e	mb			5.5	
UBBA	69.56	P	06:59:49.137	0.2	352.2					6.11	TAS	49.6	1.55	m_e	mb			5.4	
UBR	72.68	P	07:00:07.984		352.2					6.11	TAS	30.0	1.13	m_e	mb			5.3	
WET	71.48	P	07:00:01.187	-0.3	352.2					6.11	TAS	47.0	1.35	m_e	mb			5.4	
WLF	70.29	P	06:59:54.156	-0.3	352.2					6.11	TAS	65.4	1.30	m_e	mb			5.6	

Event 90103003 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/03	00:48:14.09			28.1590	104.6010				33.0			19		69.10	74.18	m i ke	BGR
OrigID 90103009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90103009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	73.43	P		00:59:41.597		68.6		6.07		TAS		8.1	0.89	m_e	mb	4.9
BRG	69.10	P		00:59:15.591	-0.0	68.6		6.07		TAS		10.0	0.81	m_e	mb	5.1
BSEG	70.15	P		00:59:22.274	0.2	68.6		6.07		TAS		25.7	0.81	m_e	mb	5.4
CLL	69.51	P		00:59:17.791	0.5	68.6		6.07		TAS		10.4	0.87	m_e	mb	5.0
CLZ	70.87	P		00:59:26.815	-0.3	68.6		6.07		TAS		15.8	0.79	m_e	mb	5.2
FLT1	70.19	P		00:59:21.617	-0.1	68.6		6.07		TAS		11.2	0.89	m_e	mb	5.0
FUR	71.67	P		00:59:31.947		68.6		6.07		TAS		31.1	0.83	m_e	mb	5.5
GEC2	69.92	P		00:59:21.035		68.6		6.07		TAS		9.2	0.91	m_e	mb	4.9
GRA1	71.14	P		00:59:28.708		68.6		6.07		TAS		19.6	0.95	m_e	mb	5.2
IBBN	72.19	P		00:59:34.523	-0.2	68.6		6.07		TAS		23.0	1.02	m_e	mb	5.2
NEUB	70.28	P		00:59:22.654	0.2	68.6		6.07		TAS		20.3	0.87	m_e	mb	5.3
NRDL	70.78	P		00:59:25.916	-0.5	68.6		6.07		TAS		14.6	0.96	m_e	mb	5.1
ROTZ	70.52	P		00:59:24.886		68.6		6.07		TAS		3.4	0.84	m_e	mb	4.5
STU	72.72	P		00:59:37.785		68.6		6.07		TAS		34.0	0.86	m_e	mb	5.5

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TANN	70.14	P	00:59:22.096	-0.3	68.6	6.07	TAS	5.4	0.79	m_e mb	4.7
TNS	72.60	P	00:59:36.794		68.6	6.07	TAS	15.1	1.20	m_e mb	5.0
UBR	72.58	P	00:59:36.663		68.6	6.07	TAS	7.9	0.84	m_e mb	4.9
WET	70.33	P	00:59:23.321		68.6	6.07	TAS	6.7	0.95	m_e mb	4.8
WLF	74.18	P	00:59:46.779		68.6	6.07	TAS	22.8	0.87	m_e mb	5.2

Event 90103004 Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/03	17:57:58.07			55.3970	157.5940				33.0			13		68.40	73.47	m i ke	BGR
OrigID 90103010																	

Magnitude Err Nsta Author OrigID  
 mb 5.0 BGR 90103010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	73.47		P	18:09:25.544		19.4		6.05		TAS		6.0	0.61	m_e mb	4.9
CLL	69.67		P	18:09:02.815	-0.5	19.4		6.05		TAS		21.7	0.85	m_e mb	5.3
CLZ	69.72		P	18:09:03.616	-0.2	19.4		6.05		TAS		11.1	0.77	m_e mb	5.1
FLT1	69.08		P	18:08:58.742	0.4	19.4		6.05		TAS		12.1	0.94	m_e mb	5.1
GEC2	71.81		P	18:09:16.132		19.4		6.05		TAS		12.6	1.17	m_e mb	4.9
GRA1	71.58		P	18:09:14.313		19.4		6.05		TAS		20.1	0.87	m_e mb	5.3
IBBN	69.79		P	18:09:04.024	0.1	19.4		6.05		TAS		14.4	0.61	m_e mb	5.3
KAST	70.72		P	18:09:09.353		19.4		6.05		TAS		8.1	0.75	m_e mb	4.9
MOX	70.59		P	18:09:08.460		19.4		6.05		TAS		13.8	1.00	m_e mb	5.0
ROTZ	71.29		P	18:09:13.207		19.4		6.05		TAS		2.3	0.92	m_e mb	4.3
RUE	68.40		P	18:08:55.373	-0.1	19.4		6.05		TAS		31.2	0.90	m_e mb	5.5
TNS	71.65		P	18:09:15.063		19.4		6.05		TAS		8.1	0.81	m_e mb	4.9
WET	71.72		P	18:09:15.725		19.4		6.05		TAS		13.2	0.87	m_e mb	5.1

Event 90103005 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/03	20:46:15.81			49.7210	153.3660				33.0			23		72.13	77.92	m i ke	BGR
OrigID 90103011																	

Magnitude Err Nsta Author OrigID  
 mb 5.5 BGR 90103011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	77.78		P	20:58:07.400		24.2		5.74		TAS		90.6	1.55	m_e mb	5.7
BSEG	72.13		P	20:57:35.388	0.2	24.2		5.74		TAS		122.4	2.01	m_e mb	5.7
BUG	75.16		P	20:57:52.773	-0.1	24.2		5.74		TAS		57.5	1.34	m_e mb	5.4

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CLL	73.83	P	20:57:44.910	-0.2	24.2	5.74	TAS	25.0	0.88	m_e mb	5.2
CLZ	74.03	P	20:57:46.822	0.3	24.2	5.74	TAS	89.8	1.55	m_e mb	5.6
FLT1	73.37	P	20:57:42.004	-0.4	24.2	5.74	TAS	84.4	1.73	m_e mb	5.6
FUR	77.16	P	20:58:04.468		24.2	5.74	TAS	93.2	1.26	m_e mb	5.8
GEC2	75.86	P	20:57:56.913		24.2	5.74	TAS	27.8	1.19	m_e mb	5.3
GOR1	72.75	P	20:57:38.920	-0.2	24.2	5.74	TAS	154.2	1.81	m_e mb	5.8
GRA1	75.78	P	20:57:56.823		24.2	5.74	TAS	185.2	1.60	m_e mb	6.0
GTTG	74.41	P	20:57:48.711	-0.1	24.2	5.74	TAS	47.6	1.34	m_e mb	5.3
KAST	75.11	P	20:57:52.834	0.2	24.2	5.74	TAS	49.0	1.33	m_e mb	5.4
MANZ	75.27	P	20:57:53.533	-0.5	24.2	5.74	TAS	10.7	1.55	m_e mb	4.6
MOX	74.80	P	20:57:50.725	0.5	24.2	5.74	TAS	75.1	1.66	m_e mb	5.5
NRDL	73.50	P	20:57:43.154	0.4	24.2	5.74	TAS	84.1	1.81	m_e mb	5.5
RETH	73.46	P	20:57:43.237	-0.6	24.2	5.74	TAS	80.9	1.64	m_e mb	5.6
ROTZ	75.44	P	20:57:54.625	0.1	24.2	5.74	TAS	17.6	1.55	m_e mb	4.8
STU	77.16	P	20:58:04.110		24.2	5.74	TAS	177.8	1.46	m_e mb	6.0
TANN	74.79	P	20:57:50.555	0.0	24.2	5.74	TAS	48.2	1.64	m_e mb	5.3
TNS	76.00	P	20:57:57.881	-0.2	24.2	5.74	TAS	26.3	0.99	m_e mb	5.3
UBBA	75.06	P	20:57:52.187	0.4	24.2	5.74	TAS	51.6	1.48	m_e mb	5.3
UBR	77.92	P	20:58:08.571		24.2	5.74	TAS	77.5	1.53	m_e mb	5.6
WET	75.82	P	20:57:57.186		24.2	5.74	TAS	107.1	1.55	m_e mb	5.7

Event 90103006 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/03	21:35:24.29			55.6860	164.7340				33.0			18		68.74	74.83	m i ke	BGR
OrigID 90103012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90103012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	74.49	P		21:46:57.630		15.3		5.97		TAS		24.2	1.30	m_e mb	5.1
BRG	71.07	P		21:46:36.762	-0.2	15.3		5.97		TAS		33.4	1.49	m_e mb	5.2
BSEG	68.74	P		21:46:23.521	0.3	15.3		5.97		TAS		316.5	2.54	m_e mb	6.1
CLL	70.82	P		21:46:35.587	0.0	15.3		5.97		TAS		31.0	1.30	m_e mb	5.3
CLZ	70.75	P		21:46:36.201	0.4	15.3		5.97		TAS		29.0	1.14	m_e mb	5.3
FLT1	70.14	P		21:46:31.489	0.1	15.3		5.97		TAS		74.0	1.92	m_e mb	5.5
FUR	74.16	P		21:46:56.032		15.3		5.97		TAS		64.8	1.48	m_e mb	5.4
GEC2	73.06	P		21:46:49.485		15.3		5.97		TAS		24.4	1.20	m_e mb	5.2
GRA1	72.69	P		21:46:47.171		15.3		5.97		TAS		57.5	1.30	m_e mb	5.5
IBBN	70.70	P		21:46:35.449	-0.1	15.3		5.97		TAS		27.7	1.12	m_e mb	5.3
MANZ	72.25	P		21:46:44.679		15.3		5.97		TAS		5.4	1.31	m_e mb	4.5
MOX	71.70	P		21:46:41.288	-0.6	15.3		5.97		TAS		31.9	1.31	m_e mb	5.3
RETH	70.04	P		21:46:30.875	0.7	15.3		5.97		TAS		105.6	2.02	m_e mb	5.6
ROTZ	72.45	P		21:46:45.843		15.3		5.97		TAS		4.9	0.99	m_e mb	4.6
TANN	71.78	P		21:46:42.034		15.3		5.97		TAS		50.4	1.65	m_e mb	5.4

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UBBA	71.80	P	21:46:41.656	0.1	15.3	5.97	TAS	70.5	1.87	m_e	mb	5.5
UBR	74.83	P	21:46:59.318		15.3	5.97	TAS	24.7	1.15	m_e	mb	5.1
WET	72.92	P	21:46:49.006		15.3	5.97	TAS	45.4	1.37	m_e	mb	5.4

Event 90104001 Greece-Albania border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/04	19:27:33.74	1.01	1.00	39.5600	19.7350	28.9	14.5	42	10.0			17	326	7.91	12.47	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
ML	4.8		BGR	90104007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ARSA	8.27		Pn	19:29:30.480	-0.7					T__				m_e		
BFO	12.01		Pn	19:30:21.963	0.7					T__				m_e		
CKRC	10.04		Pn	19:29:54.898	-0.0					T__				m_e		
DAVA	10.53		Sn	19:31:49.302	0.0					T__				m_e		
GEC2	10.24		Pn	19:29:56.914	-0.7					T__				m_e		
JAVC	9.41		Pn	19:29:47.805	1.3					T__				m_e		
KHC	10.53		Pn	19:30:00.844	-0.7					T__				m_e		
KRUC	9.80		Pn	19:29:51.868	0.2					T__				m_e		
MOA	9.18		Sn	19:31:17.193	-0.7					T__				m_e		
MOA	9.18		Pn	19:29:43.289	-0.1					T__				m_e		
MOX	12.47		Pn	19:30:26.612	-0.9					T__				m_e		
OBKA	7.91		Sn	19:30:50.388	2.1					T__				m_e		
OBKA	7.91		Pn	19:29:25.545	-0.8					T__				m_e	ML	4.8
OKC	10.34		Pn	19:29:59.499	0.6					T__				m_e		
PRU	11.06		Pn	19:30:08.790	0.2					T__				m_e		
ROTZ	11.52		Pn	19:30:13.038	-1.7					T__				m_e		
UBR	10.70		Pn	19:30:05.504	1.8					T__				m_e		
WET	10.76		Pn	19:30:03.861	-0.7					T__				m_e		
WTTA	9.69		Sn	19:31:28.550	-1.2					T__				m_e		
WTTA	9.69		Pn	19:29:51.519	1.3					T__				m_e		

Event 90105001 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/05	18:47:11.80			51.4400	-178.2600				30.0			28		74.75	81.00	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	90105007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	80.45		P	18:59:20.120	-0.2	6.0		5.53		TAS		122.9	1.40	m_e	mb 5.6
BRG	77.54		P	18:59:03.809	0.1	6.0		5.53		TAS		236.7	1.70	m_e	mb 6.0
BSEG	74.75		P	18:58:48.862	0.0	6.0		5.53		TAS		327.9	1.55	m_e	mb 6.1
BUG	77.39		P	18:59:03.216	0.1	6.0		5.53		TAS		241.3	1.49	m_e	mb 6.1
CLL	77.19		P	18:59:01.674	-0.1	6.0		5.53		TAS		191.7	1.59	m_e	mb 6.0
CLZ	76.84		P	18:59:00.699	-0.3	6.0		5.53		TAS		312.7	1.44	m_e	mb 6.2
FLT1	76.29		P	18:58:56.751	0.2	6.0		5.53		TAS		302.8	1.54	m_e	mb 6.2
FUR	80.44		P	18:59:20.120		6.0		5.53		TAS		117.3	1.07	m_e	mb 5.7
GEC2	79.57		P	18:59:15.256	-0.3	6.0		5.53		TAS		41.8	0.84	m_e	mb 5.4
GOR1	75.63		P	18:58:54.022	-0.2	6.0		5.53		TAS		378.9	1.66	m_e	mb 6.3
GRA1	78.92		P	18:59:12.350	0.0	6.0		5.53		TAS		301.8	1.38	m_e	mb 6.1
GRA1	78.92		L	19:34:37.391						T__		3351.6	21.70	a_e	
GTTG	77.15		P	18:59:02.385	-0.5	6.0		5.53		TAS		140.0	1.15	m_e	mb 6.0
IBBN	76.50		P	18:58:58.708	0.3	6.0		5.53		TAS		292.2	1.21	m_e	mb 6.3
KAST	77.58		P	18:59:04.639	-0.2	6.0		5.53		TAS		80.2	1.16	m_e	mb 5.7
MANZ	78.57		P	18:59:09.859	0.2	6.0		5.53		TAS		19.7	1.29	m_e	mb 5.0
MOX	77.95		P	18:59:06.478	-0.1	6.0		5.53		TAS		186.9	1.57	m_e	mb 6.0
NEUB	77.39		P	18:59:03.275	0.0	6.0		5.53		TAS		241.4	1.35	m_e	mb 6.2
NRDL	76.20		P	18:58:56.691	0.1	6.0		5.53		TAS		182.4	1.51	m_e	mb 6.0
RETH	76.00		P	18:58:55.802	-0.1	6.0		5.53		TAS		314.9	1.69	m_e	mb 6.2
ROTZ	78.78		P	18:59:11.223	0.5	6.0		5.53		TAS		22.1	1.24	m_e	mb 5.0
RUE	75.96		P	18:58:55.209	-0.6	6.0		5.53		TAS		424.0	1.72	m_e	mb 6.3
STU	79.97		P	18:59:17.451	-0.1	6.0		5.53		TAS		262.3	1.28	m_e	mb 6.0
TANN	78.11		P	18:59:07.486	0.0	6.0		5.53		TAS		104.3	1.36	m_e	mb 5.8
TNS	78.56		P	18:59:09.859	0.2	6.0		5.53		TAS		183.5	1.42	m_e	mb 5.9
UBBA	77.88		P	18:59:06.122	0.2	6.0		5.53		TAS		255.4	1.72	m_e	mb 6.1
UBR	81.00		P	18:59:23.204		6.0		5.53		TAS		114.1	1.39	m_e	mb 5.7
WET	79.34		P	18:59:14.367	-0.2	6.0		5.53		TAS		63.5	1.15	m_e	mb 5.5
WLF	79.20		P	18:59:13.774	0.3	6.0		5.53		TAS		92.2	1.04	m_e	mb 5.8

Event 90105002 Peru-Brazil border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/05	19:25:39.00			-8.1600	-71.6400				591.0			20		88.35	93.62	m i ke	EMSC
OrigID 90105038																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.5		BGR	90105008
MBB	6.8		BGR	90105008
Ms	5.8		BGR	90105008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	93.48		P	19:39:59.482		260.3		4.75		TAS		366.5	1.56	m_e	MBB 6.9
BUG	89.47		P	19:39:40.229	-0.1	260.3		4.75		TAS		774.8	1.39	m_e	MBB 7.0

CLL	92.97	P	19:39:57.007		260.3	4.75	TAS	361.6	1.59	m_e	MBB	6.9
CLZ	91.45	P	19:39:49.995	-0.1	260.3	4.75	TAS	685.4	1.82	m_e	MBB	6.8
FLT1	92.06	P	19:39:52.222	-0.0	260.3	4.75	TAS	397.4	1.69	m_e	MBB	6.8
GOR1	92.23	P	19:39:53.295		260.3	4.75	TAS	809.7	1.78	m_e	MBB	7.0
GRA1	91.57	L	19:58:19.900				T__	3658.9	21.50	a_e	Ms	5.8
GTTG	91.14	P	19:39:48.428	-0.4	260.3	4.75	TAS	297.9	1.43	m_e	MBB	6.8
IBBN	89.97	P	19:39:42.654	-0.3	260.3	4.75	TAS	1403.9	1.86	m_e	MBB	7.0
KAST	90.12	P	19:39:43.148	0.4	260.3	4.75	TAS	322.0	1.55	m_e	MBB	6.7
MANZ	92.18	P	19:39:53.542	-0.3	260.3	4.75	TAS	95.8	1.50	m_e	MBB	6.3
MOX	91.99	P	19:39:52.470	-0.0	260.3	4.75	TAS	419.7	1.76	m_e	MBB	6.8
MOX	91.99	L	20:09:31.012				T__	4035.9	21.50	a_e	Ms	5.8
NEUB	92.18	P	19:39:53.377		260.3	4.75	TAS	714.1	1.61	m_e	MBB	7.0
NRDL	91.41	P	19:39:49.748	0.1	260.3	4.75	TAS	585.8	1.75	m_e	MBB	6.9
RETH	91.02	P	19:39:48.015	0.1	260.3	4.75	TAS	1165.5	1.84	m_e	MBB	7.0
ROTZ	92.21	P	19:39:53.377		260.3	4.75	TAS	190.1	1.85	m_e	MBB	6.2
RUE	93.62	P	19:39:59.729		260.3	4.75	TAS	315.3	1.46	m_e	MBB	6.7
TANN	92.48	P	19:39:55.027		260.3	4.75	TAS	522.7	1.72	m_e	MBB	6.8
TNS	89.92	P	19:39:42.489	0.0	260.3	4.75	TAS	572.6	1.58	m_e	MBB	6.8
UBBA	91.01	P	19:39:47.768	0.3	260.3	4.75	TAS	393.7	1.63	m_e	MBB	6.8
WLF	88.35	P	19:39:35.064	-0.1	260.3	4.75	TAS	734.8	1.23	m_e	MBB	7.1

Event 90105003 Volcano Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/05	22:54:16.50			25.8000	144.5700				30.0			18		91.02	94.17	m i ke	EMSC
OrigID 90105035																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	90105009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	92.12		PcP	23:07:28.546	0.2					T__				m_e	
BSEG	91.31		PcP	23:07:24.809	0.0					T__				m_e	
CLL	92.21		PcP	23:07:28.644	0.1					T__				m_e	
CLZ	92.89		PcP	23:07:32.452	0.1					T__				m_e	
FLT1	92.17		PcP	23:07:28.297	-0.2					T__				m_e	
GEC2	93.71		PcP	23:07:35.698						T__				m_e	
GRA1	94.17		L	23:59:52.891						T__		913.9	18.30	a_e Ms	5.3
GTTG	93.28		PcP	23:07:33.960	0.1					T__				m_e	
IBBN	93.55		PcP	23:07:35.014	0.0					T__				m_e	
MANZ	93.57		PcP	23:07:35.390						T__				m_e	
MOX	93.29		PcP	23:07:34.076	-0.2					T__				m_e	
MOX	93.29		L	23:58:45.650						T__		1393.7	18.40	a_e Ms	5.5
NEUB	92.81		PcP	23:07:31.759	0.1					T__				m_e	
NRDL	92.50		PcP	23:07:30.304	-0.5					T__				m_e	
RETH	92.60		PcP	23:07:30.832	-0.2					T__				m_e	



ROTZ	93.69	PcP	23:07:36.056							T__							m_e
RUE	91.02	PcP	23:07:23.501	0.3						T__							m_e
TANN	93.10	PcP	23:07:32.912							T__							m_e
UBBA	93.82	PcP	23:07:36.387	-0.1						T__							m_e
WET	93.86	PcP	23:07:36.543							T__							m_e

Event 90106001 Northern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/06	03:45:35.70			65.4000	-153.3300				10.0			10		60.34	65.72	m i ke	EMSC
OrigID 90106033																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90106007
Ms	4.0		BGR	90106007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	65.72		P	03:56:23.677		352.9		6.65		TAS		17.9	1.26	m_e mb	5.2
BRG	63.65		P	03:56:09.955		352.9		6.65		TAS		11.3	1.06	m_e mb	5.0
BSEG	60.34		P	03:55:47.978	0.1	352.9		6.65		TAS		25.8	1.15	m_e mb	5.2
CLZ	62.42		P	03:56:02.324	-0.2	352.9		6.65		TAS		40.4	1.11	m_e mb	5.6
GEC2	65.65		P	03:56:23.543		352.9		6.65		TAS		12.2	1.06	m_e mb	5.1
GRA1	64.62		L	04:29:10.073						T__		84.9	21.50	a_e Ms	3.9
GTTG	62.68		P	03:56:03.998		352.9		6.65		TAS		19.6	0.90	m_e mb	5.2
IBBN	61.73		P	03:55:57.438	-0.1	352.9		6.65		TAS		23.8	0.97	m_e mb	5.4
MOX	63.71		P	03:56:10.491		352.9		6.65		TAS		22.0	1.27	m_e mb	5.2
MOX	63.71		L	04:26:50.986						T__		97.6	18.80	a_e Ms	4.0
NEUB	63.17		P	03:56:06.876		352.9		6.65		TAS		21.8	1.07	m_e mb	5.2
NRDL	61.75		P	03:55:57.438	-0.1	352.9		6.65		TAS		22.6	1.11	m_e mb	5.3

Event 90106002 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/06	07:25:41.40			51.3800	-178.1800				40.0			19		76.03	80.51	m i ke	EMSC
OrigID 90106034																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90106008
Ms	4.2		BGR	90106008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	80.51		P	07:37:49.127		6.0		5.54		TAS		12.7	1.19	m_e mb	4.8
BRG	77.61		P	07:37:32.894	0.5	6.0		5.54		TAS		12.3	1.15	m_e mb	4.9

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CLL	77.25	P	07:37:30.854	-0.0	6.0	5.54	TAS	5.4	0.73	m_e	mb	4.8
CLZ	76.90	P	07:37:29.875	0.1	6.0	5.54	TAS	16.3	1.01	m_e	mb	5.1
FLT1	76.36	P	07:37:25.960	-0.0	6.0	5.54	TAS	21.5	1.37	m_e	mb	5.1
GEC2	79.64	P	07:37:44.396		6.0	5.54	TAS	6.4	0.86	m_e	mb	4.6
GRA1	78.99	P	07:37:41.377		6.0	5.54	TAS	21.3	1.05	m_e	mb	5.1
GRA1	78.99	L	08:17:15.474				T__	100.7	19.10	a_e	Ms	4.2
GTTG	77.22	P	07:37:31.507	-0.1	6.0	5.54	TAS	19.5	1.10	m_e	mb	5.2
MANZ	78.63	P	07:37:38.849		6.0	5.54	TAS	2.0	1.14	m_e	mb	4.0
MOX	78.01	P	07:37:35.494	0.1	6.0	5.54	TAS	10.3	1.09	m_e	mb	4.9
MOX	78.01	L	08:40:06.343				T__	116.3	19.10	a_e	Ms	4.2
NEUB	77.46	P	07:37:32.404	0.2	6.0	5.54	TAS	23.9	1.09	m_e	mb	5.2
ROTZ	78.84	P	07:37:40.235		6.0	5.54	TAS	1.8	0.94	m_e	mb	4.1
RUE	76.03	P	07:37:24.328	-0.2	6.0	5.54	TAS	27.4	1.23	m_e	mb	5.2
STU	80.03	P	07:37:46.435		6.0	5.54	TAS	21.1	0.93	m_e	mb	5.1
TANN	78.18	P	07:37:36.483	-0.4	6.0	5.54	TAS	16.2	1.45	m_e	mb	5.0
TNS	78.62	P	07:37:38.930	-0.4	6.0	5.54	TAS	13.1	1.01	m_e	mb	4.9
UBBA	77.94	P	07:37:35.096	0.2	6.0	5.54	TAS	14.1	1.38	m_e	mb	4.9
WET	79.41	P	07:37:43.335		6.0	5.54	TAS	5.1	1.00	m_e	mb	4.5
WLF	79.27	P	07:37:42.927		6.0	5.54	TAS	14.5	1.00	m_e	mb	5.0

Event 90106003 New Ireland, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/06	07:30:04.70			-3.3600	153.7200				400.0			17		121.39	126.28	m i ke	EMSC
OrigID 90106035																	

Magnitude 4.5  
 Err 4.5  
 Nsta BGR  
 Author  
 OrigID 90106009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	121.87		PKPdf	07:48:12.669	0.1	47.1		1.99		TAS				m_e	
BSEG	121.39		PKPdf	07:48:11.558	0.2	47.1		1.99		TAS				m_e	
CLL	122.03		PKPdf	07:48:12.626	0.1	47.1		1.99		TAS				m_e	
CLZ	122.86		PKPdf	07:48:14.805	-0.2	47.1		1.99		TAS				m_e	
GEC2	123.30		PKPdf	07:48:15.189		47.1		1.99		TAS				m_e	
GRA1	123.96	L		08:17:15.483						T__		100.7	19.10	a_e	Ms 4.5
GTTG	123.25		PKPdf	07:48:15.489	0.1	47.1		1.99		TAS				m_e	
KAST	124.17		PKPdf	07:48:17.112	0.1	47.1		1.99		TAS				m_e	
MANZ	123.34		PKPdf	07:48:15.446		47.1		1.99		TAS				m_e	
MOX	123.12		PKPdf	07:48:14.805	0.1	47.1		1.99		TAS				m_e	
MOX	123.12	L		08:40:06.309						T__		116.3	19.10	a_e	Ms 4.5
NEUB	122.68		PKPdf	07:48:13.950	0.2	47.1		1.99		TAS				m_e	
NRDL	122.51		PKPdf	07:48:14.036	-0.1	47.1		1.99		TAS				m_e	
ROTZ	123.44		PKPdf	07:48:15.617		47.1		1.99		TAS				m_e	
STU	125.56		PKPdf	07:48:19.932		47.1		1.99		TAS				m_e	
TANN	122.88		PKPdf	07:48:14.591	-0.5	47.1		1.99		TAS				m_e	

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UBR	125.87	PKPdf	07:48:19.847	47.1	1.99	TAS	m_e
WET	123.52	PKPdf	07:48:15.788	47.1	1.99	TAS	m_e
WLF	126.28	PKPdf	07:48:21.684	47.1	1.99	TAS	m_e

Event 90106004 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
2019/01/06	08:34:10.00			38.7700	141.3900				100.0			8		78.51	83.78	m i ke	EMSC
OrigID 90106036																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90106010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	83.78		P	08:46:28.109		37.1		5.35		TAS		10.5	0.94	m_e mb	5.0
BSEG	78.51		P	08:46:00.375	-0.4	37.1		5.35		TAS		13.0	1.04	m_e mb	4.9
CLL	79.59		P	08:46:05.522		37.1		5.35		TAS		8.6	0.78	m_e mb	4.8
FLT1	79.45		P	08:46:04.726		37.1		5.35		TAS		9.3	0.72	m_e mb	4.9
GEC2	81.23		P	08:46:14.668		37.1		5.35		TAS		3.0	0.72	m_e mb	4.4
GRA1	81.56		P	08:46:16.975		37.1		5.35		TAS		13.5	0.87	m_e mb	5.1
STU	83.09		P	08:46:24.667		37.1		5.35		TAS		19.2	0.79	m_e mb	5.4
WET	81.33		P	08:46:15.459		37.1		5.35		TAS		8.2	1.28	m_e mb	4.6

Event 90106005 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/06	13:41:57.70			33.9600	45.6100				10.0			25		27.93	32.68	m i ke	EMSC
OrigID 90106037																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	90106011
Ms	5.1		BGR	90106011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	28.55		P	13:47:52.642	-0.9	108.9		9.00		TAS		50.2	1.28	m_e mb	5.2
BSEG	31.84		P	13:48:22.484	0.3	108.9		9.00		TAS		119.4	1.32	m_e mb	5.7
BUG	32.68		P	13:48:29.869	-0.0	108.9		9.00		TAS		243.0	2.08	m_e mb	5.8
CLL	29.27		P	13:47:59.079	-0.8	108.9		9.00		TAS		142.7	1.75	m_e mb	5.5
CLZ	30.99		P	13:48:14.817	-0.3	108.9		9.00		TAS		68.6	1.16	m_e mb	5.5
FLT1	30.68		P	13:48:11.535	-0.4	108.9		9.00		TAS		49.4	1.34	m_e mb	5.3
FUR	29.25		P	13:47:59.224		108.9		9.00		TAS		191.8	1.19	m_e mb	5.8
GEC2	27.93		P	13:47:47.140		108.9		9.00		TAS		49.8	1.41	m_e mb	5.2
GOR1	30.91		P	13:48:14.333	0.4	108.9		9.00		TAS		247.5	1.31	m_e mb	6.0

GRA1	29.74	P	13:48:03.684	1.1	108.9	9.00	TAS	171.0	1.30	m_e	mb	5.7
GRA1	29.74	L	14:01:23.082				T__	3385.6	19.10	a_e	Ms	5.0
GTTG	31.12	P	13:48:15.814	-0.5	108.9	9.00	TAS	53.0	1.23	m_e	mb	5.3
IBBN	32.67	P	13:48:30.162	-0.2	108.9	9.00	TAS	552.9	2.12	m_e	mb	6.1
KAST	31.92	P	13:48:23.363	-0.5	108.9	9.00	TAS	98.6	1.33	m_e	mb	5.6
MANZ	29.30	P	13:47:59.838	0.2	108.9	9.00	TAS	256.9	3.43	m_e	mb	5.5
MOX	29.83	P	13:48:03.679	-0.2	108.9	9.00	TAS	31.7	1.43	m_e	mb	5.0
MOX	29.83	L	14:01:46.837				T__	5899.7	19.50	a_e	Ms	5.2
NEUB	29.94	P	13:48:04.821	-0.4	108.9	9.00	TAS	39.8	1.13	m_e	mb	5.2
NRDL	31.38	P	13:48:18.629	0.0	108.9	9.00	TAS	79.0	1.25	m_e	mb	5.5
RETH	31.90	P	13:48:23.558	0.1	108.9	9.00	TAS	681.9	2.11	m_e	mb	6.2
RGN	30.54	P	13:48:11.039	1.6	108.9	9.00	TAS	895.1	1.88	m_e	mb	6.4
ROTZ	29.17	P	13:47:58.739	-0.4	108.9	9.00	TAS	118.3	1.91	m_e	mb	5.4
TANN	29.24	P	13:47:58.763	0.1	108.9	9.00	TAS	145.0	2.38	m_e	mb	5.4
TNS	31.61	P	13:48:20.045	0.3	108.9	9.00	TAS	253.1	2.00	m_e	mb	5.8
UBBA	30.85	P	13:48:13.327	-0.5	108.9	9.00	TAS	104.3	1.92	m_e	mb	5.4
UBR	29.88	P	13:48:04.325		108.9	9.00	TAS	98.4	1.44	m_e	mb	5.4
WET	28.54	P	13:47:52.214	1.2	108.9	9.00	TAS	60.2	1.46	m_e	mb	5.2

Event 90106006 Southern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/06	16:22:30.80			39.8600	77.6900				5.0			25		44.53	49.94	m i ke	EMSC
	90106038																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90106012
Ms	4.5		BGR	90106012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	48.97	P		16:31:18.149		75.6		7.77		TAS		19.2	1.23	m_e	mb	5.0
BRG	44.80	P		16:30:45.766	-0.0	75.6		7.77		TAS		20.4	1.21	m_e	mb	4.9
BSEG	46.38	P		16:30:58.622	0.3	75.6		7.77		TAS		31.6	1.15	m_e	mb	5.2
BUG	48.75	P		16:31:16.863	-0.5	75.6		7.77		TAS		34.1	1.38	m_e	mb	5.2
CLL	45.29	P		16:30:49.221	-0.3	75.6		7.77		TAS		18.0	1.10	m_e	mb	4.9
CLZ	46.78	P		16:31:01.355	-0.6	75.6		7.77		TAS		16.1	1.17	m_e	mb	5.0
FLT1	46.15	P		16:30:55.810	-0.9	75.6		7.77		TAS		25.8	1.10	m_e	mb	5.2
FUR	47.13	P		16:31:04.729		75.6		7.77		TAS		119.3	1.82	m_e	mb	5.7
GEC2	45.39	P		16:30:50.908		75.6		7.77		TAS		28.3	1.22	m_e	mb	5.1
GOR1	45.98	P		16:30:55.408	0.3	75.6		7.77		TAS		46.9	1.39	m_e	mb	5.3
GRA1	46.76	P		16:31:02.059	0.8	75.6		7.77		TAS		32.0	1.11	m_e	mb	5.4
GRA1	46.76	L		16:52:17.546						T__		640.5	19.70	a_e	Ms	4.6
GTTG	47.09	P		16:31:04.167	-0.5	75.6		7.77		TAS		58.8	1.20	m_e	mb	5.6
MANZ	46.14	P		16:30:56.614	0.3	75.6		7.77		TAS		4.9	1.40	m_e	mb	4.3
MOX	46.29	P		16:30:57.578	-0.0	75.6		7.77		TAS		22.3	1.38	m_e	mb	5.0
MOX	46.29	L		16:51:07.778						T__		390.9	21.80	a_e	Ms	4.3

NEUB	46.07	P	16:30:55.569	-0.1	75.6	7.77	TAS	25.1	1.11	m_e	mb	5.2
NRDL	46.79	P	16:31:01.837	-0.2	75.6	7.77	TAS	39.7	1.15	m_e	mb	5.4
RGN	44.53	P	16:30:44.078	0.7	75.6	7.77	TAS	63.7	0.99	m_e	mb	5.5
ROTZ	46.13	P	16:30:56.694	0.1	75.6	7.77	TAS	6.2	1.53	m_e	mb	4.4
STU	48.29	P	16:31:13.328		75.6	7.77	TAS	104.4	1.38	m_e	mb	5.8
TANN	45.82	P	16:30:54.042	0.6	75.6	7.77	TAS	17.5	1.26	m_e	mb	4.9
TNS	48.36	P	16:31:13.810	0.2	75.6	7.77	TAS	15.0	1.25	m_e	mb	5.0
UBBA	47.25	P	16:31:04.810	0.2	75.6	7.77	TAS	35.3	1.72	m_e	mb	5.2
UBR	48.02	P	16:31:11.078		75.6	7.77	TAS	56.6	1.45	m_e	mb	5.5
WET	45.85	P	16:30:54.444	0.3	75.6	7.77	TAS	18.7	1.28	m_e	mb	5.0
WLF	49.94	P	16:31:26.184	-0.3	75.6	7.77	TAS	22.5	1.06	m_e	mb	5.0

Event 90106007 Northern Molucca Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/06	17:27:18.90			2.3000	126.7700				40.0				12	102.81	105.43	m i ke	EMSC
OrigID 90106039																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.3		BGR	90106013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	103.36		Pdiff	17:41:17.461	-0.3					T__				m_e	
CLL	102.81		Pdiff	17:41:13.990						T__				m_e	
CLZ	104.14		Pdiff	17:41:21.169	-0.3					T__				m_e	
FLT1	103.46		Pdiff	17:41:17.037	-0.0					T__				m_e	
GEC2	103.22		Pdiff	17:41:16.225						T__				m_e	
GRA1	104.45		L	18:35:15.573						T__	10610.1	21.60		a_e Ms	6.3
IBBN	105.43		Pdiff	17:41:26.405	0.1					T__				m_e	
MANZ	103.81		Pdiff	17:41:18.663						T__				m_e	
MOX	103.87		Pdiff	17:41:19.340						T__				m_e	
MOX	103.87		L	18:35:39.440						T__	8047.0	21.90		a_e Ms	6.2
NEUB	103.58		Pdiff	17:41:18.003						T__				m_e	
RETH	104.36		Pdiff	17:41:21.710	0.6					T__				m_e	
TANN	103.45		Pdiff	17:41:17.257						T__				m_e	
WET	103.63		Pdiff	17:41:18.409						T__				m_e	

Event 90108001 Northern Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/08	10:00:09.20			-4.5900	-73.9200				10.0				5	89.34	91.01	m i ke	EMSC
OrigID 90108037																	



Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90108009
Ms	6.7		BGR	90108009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	85.27		P	12:52:09.052		48.1		5.19		TAS		90.1	0.92	m_e	mb 6.0
BRG	80.86		P	12:51:46.381	0.0	48.1		5.19		TAS		40.2	1.03	m_e	mb 5.4
CLL	81.03		P	12:51:47.342	-0.3	48.1		5.19		TAS		165.0	0.78	m_e	mb 6.1
CLZ	81.91		P	12:51:52.625	0.0	48.1		5.19		TAS		124.1	0.88	m_e	mb 6.0
FLT1	81.19		P	12:51:47.822	-0.2	48.1		5.19		TAS		99.6	0.84	m_e	mb 5.9
FUR	83.95		P	12:52:02.808		48.1		5.19		TAS		221.5	0.85	m_e	mb 6.4
GEC2	82.28		P	12:51:53.778	0.1	48.1		5.19		TAS		38.5	0.69	m_e	mb 5.6
GRA1	82.95		P	12:51:57.968	0.6	48.1		5.19		TAS		187.9	0.99	m_e	mb 6.3
GRA1	82.95		L	13:34:42.723						T__		38149.0	18.50	a_e	Ms 6.8
GTTG	82.30		P	12:51:54.258	-0.1	48.1		5.19		TAS		102.8	0.84	m_e	mb 6.0
IBBN	82.77		P	12:51:56.275	0.2	48.1		5.19		TAS		92.5	0.78	m_e	mb 6.1
KAST	83.24		P	12:51:58.965	-0.1	48.1		5.19		TAS		45.5	1.03	m_e	mb 5.6
MANZ	82.33		P	12:51:54.450	0.5	48.1		5.19		TAS		10.2	0.75	m_e	mb 5.0
MOX	82.13		P	12:51:53.298	0.1	48.1		5.19		TAS		40.7	0.91	m_e	mb 5.5
MOX	82.13		L	13:32:45.226						T__		31921.5	19.90	a_e	Ms 6.7
NEUB	81.69		P	12:51:50.896	0.1	48.1		5.19		TAS		221.8	0.81	m_e	mb 6.3
NRDL	81.59		P	12:51:50.416	-0.5	48.1		5.19		TAS		35.8	0.94	m_e	mb 5.5
PLN	81.97		P	12:51:52.433	0.2	48.1		5.19		TAS		17.6	0.83	m_e	mb 5.2
ROTZ	82.42		P	12:51:55.027	0.0	48.1		5.19		TAS		14.2	1.01	m_e	mb 5.0
RUE	79.91		P	12:51:41.674	0.6	48.1		5.19		TAS		112.9	0.82	m_e	mb 5.8
STU	84.55		P	12:52:06.458	-0.4	48.1		5.19		TAS		480.6	0.88	m_e	mb 6.7
TANN	81.87		P	12:51:51.953	0.2	48.1		5.19		TAS		39.5	1.28	m_e	mb 5.4
TNS	83.91		P	12:52:02.519	-0.1	48.1		5.19		TAS		148.6	0.93	m_e	mb 6.2
UBBA	82.77		P	12:51:56.468	0.0	48.1		5.19		TAS		47.5	0.76	m_e	mb 5.8
UBR	84.85		P	12:52:07.034		48.1		5.19		TAS		37.9	0.92	m_e	mb 5.6
WET	82.50		P	12:51:55.219	-0.5	48.1		5.19		TAS		50.3	1.33	m_e	mb 5.5
WLF	85.35		P	12:52:09.820	-0.3	48.1		5.19		TAS		148.2	0.93	m_e	mb 6.2

Event 90110003 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/10	17:00:39.50			-27.1100	175.5300				10.0			19		152.19	156.50	m i ke	EMSC
OrigID 90110039																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.7		BGR	90110009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	152.44		PKPbc	17:19:49.867	0.1	37.1		2.90		TAS				m_e	
CLL	152.44		PKPbc	17:19:49.867	0.1	37.1		2.90		TAS				m_e	
CLZ	152.88		PKPbc	17:19:52.267	-0.3	37.1		2.90		TAS				m_e	

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FLT1	152.19	PKPbc	17:19:49.253	0.4	37.1	2.90	TAS											m_e
GEC2	154.13	PKPbc	17:19:54.778		37.1	2.90	TAS											m_e
GRA1	154.42	PKPbc	17:19:56.285	-0.1	37.1	2.90	TAS											m_e
GRA1	154.42	L	18:37:48.552				T__			1893.2	20.00			a_e	Ms		5.9	
IBBN	153.21	PKPbc	17:19:53.271	-0.5	37.1	2.90	TAS											m_e
KAST	154.03	PKPbc	17:19:55.560	0.1	37.1	2.90	TAS											m_e
MANZ	153.85	PKPbc	17:19:54.443	0.2	37.1	2.90	TAS											m_e
MOX	153.49	PKPbc	17:19:53.327	0.2	37.1	2.90	TAS											m_e
MOX	153.49	L	18:32:45.928				T__			756.4	21.50			a_e	Ms		5.5	
NEUB	152.97	PKPbc	17:19:51.932	-0.2	37.1	2.90	TAS											m_e
NRDL	152.39	PKPbc	17:19:50.481	-0.2	37.1	2.90	TAS											m_e
PLN	153.42	PKPbc	17:19:53.216	0.3	37.1	2.90	TAS											m_e
RETH	152.39	PKPbc	17:19:50.649	-0.1	37.1	2.90	TAS											m_e
ROTZ	153.99	PKPbc	17:19:54.891	0.4	37.1	2.90	TAS											m_e
TANN	153.37	PKPbc	17:19:53.104	0.2	37.1	2.90	TAS											m_e
UBR	156.50	PKPbc	17:20:01.084		37.1	2.90	TAS											m_e
WET	154.23	PKPbc	17:19:55.336	-0.8	37.1	2.90	TAS											m_e
WLF	156.04	PKPbc	17:20:01.642	0.1	37.1	2.90	TAS											m_e

Event 90111002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/11	05:58:13.60			-21.3300	-174.1700				10.0					151.38	151.38	m i ke	EMSC
90111034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	151.38		PKP	06:18:08.573		10.5		1.71		TAS					m_e

Event 90111003 Southern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/11	19:05:30.90			-3.3000	101.4200				46.0				11	90.94	94.50	m i	EMSC
90111035																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	94.50		PcP	19:18:47.397						T__					m_e
BRG	90.94		PcP	19:18:30.875						T__					m_e
CLL	91.56		PcP	19:18:32.786						T__					m_e
GEC2	90.96		PcP	19:18:31.169						T__					m_e



MANZ	92.06	PcP	19:18:36.517		T__	m_e
MOX	92.40	PcP	19:18:37.504		T__	m_e
ROTZ	91.98	PcP	19:18:35.874		T__	m_e
RUE	91.15	PcP	19:18:31.610	0.4	T__	m_e
TANN	91.85	PcP	19:18:35.530		T__	m_e
TNS	94.42	PcP	19:18:47.339		T__	m_e
WET	91.52	PcP	19:18:33.403		T__	m_e

Event 90112001 Southern Xinjiang, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/12	04:32:08.97			39.8200	75.0000				39.7	0.8		23		43.15	48.29	m i ke	BGR
OrigID 90112007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90112007
Ms	5.4		BGR	90112007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	47.27		P	04:40:37.515		78.4		7.92		TAS		17.0	0.89	m_e	mb 5.2
BRG	43.15		P	04:40:05.394	0.3	78.4		7.92		TAS		22.6	0.98	m_e	mb 4.9
BSEG	44.84		P	04:40:19.037	0.7	78.4		7.92		TAS		39.8	0.91	m_e	mb 5.3
CLL	43.66		P	04:40:09.045	0.2	78.4		7.92		TAS		34.2	1.14	m_e	mb 5.0
CLL	43.66		pP	04:40:19.481						T__					m_e
CLZ	45.17		P	04:40:21.377	-0.5	78.4		7.92		TAS		17.7	0.90	m_e	mb 5.0
FLT1	44.56		P	04:40:15.711	-0.3	78.4		7.92		TAS		35.2	0.95	m_e	mb 5.3
FLT1	44.56		pP	04:40:26.554						T__					m_e
FUR	45.41		P	04:40:23.857	0.2	78.4		7.92		TAS		43.6	0.92	m_e	mb 5.4
GEC2	43.68		P	04:40:09.948	-0.2	78.4		7.92		TAS		28.4	0.94	m_e	mb 5.0
GRA1	45.09		P	04:40:21.557	0.2	78.4		7.92		TAS		41.9	0.84	m_e	mb 5.4
GRA1	45.09		L	05:01:04.795						T__	3930.0	18.00	a_e	Ms	5.4
GTTG	45.48		P	04:40:24.374	0.2	78.4		7.92		TAS		58.9	0.88	m_e	mb 5.5
KAST	46.50		pP	04:40:42.512						T__					m_e
MANZ	44.46		P	04:40:16.265	0.5	78.4		7.92		TAS		2.2	0.93	m_e	mb 3.9
MOX	44.64		P	04:40:17.209	-0.1	78.4		7.92		TAS		13.7	0.90	m_e	mb 4.9
MOX	44.64		L	05:02:08.302						T__	3821.3	18.90	a_e	Ms	5.3
NRDL	45.21		P	04:40:21.762	1.6	78.4		7.92		TAS		30.7	0.93	m_e	mb 5.2
NRDL	45.21		pP	04:40:32.643						T__					m_e
PLN	44.33		P	04:40:14.911	0.1	78.4		7.92		TAS		5.4	0.98	m_e	mb 4.2
RETH	45.61		P	04:40:26.550	-0.6	78.4		7.92		TAS		12.3	0.98	m_e	mb 4.9
ROTZ	44.45		P	04:40:16.265	0.6	78.4		7.92		TAS		3.5	1.41	m_e	mb 3.9
STU	46.60		P	04:40:33.084		78.4		7.92		TAS		60.4	0.84	m_e	mb 5.8
TANN	44.16		P	04:40:13.494	0.3	78.4		7.92		TAS		14.4	0.96	m_e	mb 4.7
TNS	46.71		P	04:40:33.618		78.4		7.92		TAS		16.9	1.09	m_e	mb 5.1
UBBA	45.61		P	04:40:24.716	-0.3	78.4		7.92		TAS		5.7	0.74	m_e	mb 4.7
UBBA	45.61		pP	04:40:35.164						T__					m_e

UBR	46.29	P	04:40:30.254	78.4	7.92	TAS	54.7	1.01	m_e	mb	5.5
WET	44.15	P	04:40:13.681	-0.2	78.4	7.92	22.6	0.94	m_e	mb	4.9
WLF	48.29	P	04:40:46.171	78.4	7.92	TAS	27.7	0.88	m_e	mb	5.4

Event 90112003 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
2019/01/12	11:18:58.91			52.7890	159.5170				33.0			28		70.60	76.57	m i ke	BGR
OrigID 90112009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	90112009
Ms	4.4		BGR	90112009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	76.32	P		11:30:42.297		19.3		5.84		TAS		22.0	0.84	m_e	mb	5.3
BRG	72.71	P		11:30:21.689	-0.1	19.3		5.84		TAS		19.5	1.01	m_e	mb	5.2
BSEG	70.60	P		11:30:09.518	0.3	19.3		5.84		TAS		43.5	1.00	m_e	mb	5.5
BUG	73.55	P		11:30:26.462	0.3	19.3		5.84		TAS		55.5	1.00	m_e	mb	5.5
CLL	72.51	P		11:30:20.328	-0.2	19.3		5.84		TAS		55.5	0.97	m_e	mb	5.7
CLZ	72.57	P		11:30:21.221	-0.1	19.3		5.84		TAS		81.2	1.08	m_e	mb	5.8
FLT1	71.93	P		11:30:16.797	0.7	19.3		5.84		TAS		32.7	0.89	m_e	mb	5.5
GEC2	74.66	P		11:30:33.275	-0.6	19.3		5.84		TAS		25.8	1.04	m_e	mb	5.2
GOR1	71.29	P		11:30:13.256	-0.1	19.3		5.84		TAS		42.1	1.02	m_e	mb	5.5
GRA1	74.42	P		11:30:32.044	0.1	19.3		5.84		TAS		59.0	0.94	m_e	mb	5.6
GRA1	74.42	L		11:58:07.259						T__		205.7	21.60	a_e	Ms	4.4
GTTG	72.93	P		11:30:23.746	-0.4	19.3		5.84		TAS		45.0	1.21	m_e	mb	5.5
IBBN	72.63	P		11:30:21.577	0.2	19.3		5.84		TAS				m_e		
KAST	73.56	P		11:30:27.067	-0.1	19.3		5.84		TAS		39.3	1.02	m_e	mb	5.4
MANZ	73.95	P		11:30:29.066	-0.5	19.3		5.84		TAS		4.8	1.00	m_e	mb	4.5
MOX	73.44	P		11:30:26.003	0.3	19.3		5.84		TAS		33.2	1.07	m_e	mb	5.4
MOX	73.44	L		12:01:58.523						T__		233.3	21.40	a_e	Ms	4.4
NEUB	72.89	P		11:30:22.706	-0.3	19.3		5.84		TAS		28.2	0.94	m_e	mb	5.4
NRDL	72.00	P		11:30:17.516	0.3	19.3		5.84		TAS		31.4	0.93	m_e	mb	5.4
PLN	73.47	P		11:30:26.005	0.3	19.3		5.84		TAS		9.1	0.94	m_e	mb	4.9
RETH	71.92	P		11:30:17.417	-0.0	19.3		5.84		TAS		44.8	1.09	m_e	mb	5.5
ROTZ	74.14	P		11:30:30.457	0.2	19.3		5.84		TAS		7.1	1.02	m_e	mb	4.6
RUE	71.25	P		11:30:13.292	-0.5	19.3		5.84		TAS		57.2	0.87	m_e	mb	5.7
STU	75.72	P		11:30:39.892	0.0	19.3		5.84		TAS		111.3	1.22	m_e	mb	5.9
TANN	73.47	P		11:30:26.569	-0.1	19.3		5.84		TAS		24.2	1.28	m_e	mb	5.2
TNS	74.49	P		11:30:32.472	0.3	19.3		5.84		TAS		33.3	0.89	m_e	mb	5.4
UBBA	73.61	P		11:30:26.759	-0.3	19.3		5.84		TAS		60.6	1.62	m_e	mb	5.4
UBR	76.57	P		11:30:44.412		19.3		5.84		TAS		52.9	1.17	m_e	mb	5.5
WET	74.57	P		11:30:33.030	0.5	19.3		5.84		TAS		35.0	0.91	m_e	mb	5.4
WLF	75.46	P		11:30:37.237	0.3	19.3		5.84		TAS		30.2	1.22	m_e	mb	5.2

Event 90113001 Southern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/13	16:45:53.80			61.3200	-150.1100				47.0			26		64.05	70.19	m i ke	EMSC
OrigID 90113033																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	90113007
Ms	4.0		BGR	90113007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	69.33		P	16:56:56.451		350.4		6.38		TAS		29.2	1.07	m_e	mb	5.4
BRG	67.43		P	16:56:44.073	-0.1	350.4		6.38		TAS		30.4	0.84	m_e	mb	5.6
BSEG	64.05		P	16:56:22.869	0.2	350.4		6.38		TAS		40.2	0.91	m_e	mb	5.6
BUG	66.14		P	16:56:36.116	-0.1	350.4		6.38		TAS		54.8	1.01	m_e	mb	5.7
CLL	66.91		P	16:56:40.570	0.1	350.4		6.38		TAS		31.3	0.93	m_e	mb	5.5
CLZ	66.12		P	16:56:36.641	-0.2	350.4		6.38		TAS		49.8	0.81	m_e	mb	5.8
FLT1	65.73		P	16:56:33.081	-0.2	350.4		6.38		TAS		34.6	1.03	m_e	mb	5.5
GEC2	69.42		P	16:56:57.065	-0.1	350.4		6.38		TAS		25.4	1.05	m_e	mb	5.4
GOR1	65.08		P	16:56:27.549	0.6	350.4		6.38		TAS		42.6	1.20	m_e	mb	5.5
GRA1	68.33		P	16:56:50.145	-0.1	350.4		6.38		TAS		30.0	0.95	m_e	mb	5.5
GRA1	68.33		L	17:32:13.377						T__		119.5	21.80	a_e	Ms	4.1
GTTG	66.36		P	16:56:38.041	0.1	350.4		6.38		TAS		82.0	0.98	m_e	mb	5.9
IBBN	65.35		P	16:56:31.681	0.5	350.4		6.38		TAS		39.2	0.96	m_e	mb	5.6
KAST	66.52		P	16:56:38.701	-0.0	350.4		6.38		TAS		33.6	1.13	m_e	mb	5.5
MANZ	68.13		P	16:56:48.627	0.1	350.4		6.38		TAS		11.8	1.38	m_e	mb	4.9
MOX	67.43		P	16:56:44.131	-0.0	350.4		6.38		TAS		48.8	0.84	m_e	mb	5.8
MOX	67.43		L	17:22:51.761						T__		85.1	20.90	a_e	Ms	4.0
NEUB	66.90		P	16:56:40.726	-0.1	350.4		6.38		TAS		60.5	0.90	m_e	mb	5.8
NRDL	65.44		P	16:56:31.870	-0.3	350.4		6.38		TAS		44.9	1.04	m_e	mb	5.6
PLN	67.64		P	16:56:45.474	0.3	350.4		6.38		TAS		12.7	0.96	m_e	mb	5.1
ROTZ	68.36		P	16:56:50.413	-0.6	350.4		6.38		TAS		8.3	0.91	m_e	mb	5.0
RUE	65.83		P	16:56:34.248	0.7	350.4		6.38		TAS		102.1	0.88	m_e	mb	6.1
STU	69.00		P	16:56:54.439		350.4		6.38		TAS		44.9	0.94	m_e	mb	5.7
TNS	67.49		P	16:56:44.949	-0.1	350.4		6.38		TAS		24.2	0.95	m_e	mb	5.4
UBBA	67.08		P	16:56:42.146	0.1	350.4		6.38		TAS		14.1	0.92	m_e	mb	5.2
UBR	70.19		P	16:57:01.940		350.4		6.38		TAS		31.3	0.87	m_e	mb	5.5
WET	69.04		P	16:56:53.856	-0.2	350.4		6.38		TAS		26.7	1.01	m_e	mb	5.4
WLF	67.74		P	16:56:46.328	0.4	350.4		6.38		TAS		42.4	1.03	m_e	mb	5.6

Event 90114001 Northern Italy

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

2019/01/14 23:03:56.70 0.45 44.2040 12.3870 8.9 5.6 5 25.2 0.1 35 2.76 6.93 m i ke BGR 90114007

Magnitude Err Nsta Author OrigID  
ML 5.0 BGR 90114007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ABH	6.58		Pn	23:05:30.753	0.2					T__				m_e	
ARSA	3.76		Pn	23:04:52.411	-0.3					T__				m_e ML	4.6
ARSA	3.76		Pg	23:05:04.192						T__				m_e	
BALST	4.54		Sn	23:05:49.859						T__				m_e	
BALST	4.54		Pn	23:05:02.339	-1.0					T__				m_e ML	5.0
BERGE	4.69		Sn	23:05:52.843						T__				m_e	
BERGE	4.69		Pn	23:05:04.517	-0.6					T__				m_e ML	4.7
BFO	4.99		Sn	23:06:00.790						T__				m_e	
BFO	4.99		Pn	23:05:08.648	-0.3					T__				m_e ML	4.8
BFO	4.99		Pg	23:05:28.677						T__				m_e	
DAVA	3.55		Sn	23:05:30.411						T__				m_e	
DAVA	3.55		Pn	23:04:50.623	1.7					T__				m_e ML	5.0
ECH	5.41		Sn	23:06:09.319						T__				m_e	
ECH	5.41		Pn	23:05:14.274	-0.8					T__				m_e ML	4.4
EMING	4.44		Sn	23:05:47.986						T__				m_e	
EMING	4.44		Sg	23:06:14.730						T__				m_e	
EMING	4.44		Pn	23:05:01.092	-0.2					T__				m_e ML	5.0
FUR	4.03		Pn	23:04:55.843	0.7					T__				m_e ML	5.4
GEC2	4.73		Pn	23:05:04.871	-0.1					T__				m_e ML	5.0
GRA1	5.55		Pn	23:05:15.151	-0.8					T__				m_e ML	5.3
GRFO	5.55		Pn	23:05:15.356	-0.6					T__				m_e	
KBA	2.95		Sg	23:05:30.858						T__				m_e	
KBA	2.95		Pn	23:04:41.813	1.2					T__				m_e ML	4.9
KBA	2.95		Pg	23:04:50.685						T__				m_e	
MANZ	5.79		Pn	23:05:18.037	-1.2					T__				m_e ML	5.0
MANZ	5.79		Sn	23:06:19.342						T__				m_e	
MILB	6.01		Pn	23:05:21.758	-0.7					T__				m_e ML	5.6
MOA	3.87		Sn	23:05:37.458						T__				m_e	
MOA	3.87		Pn	23:04:54.739	1.2					T__				m_e ML	4.9
MOX	6.47		Sn	23:06:36.263						T__				m_e	
MOX	6.47		Pn	23:05:27.362	-1.2					T__				m_e ML	5.1
NORI	4.68		Sg	23:06:20.437						T__				m_e	
NORI	4.68		Sn	23:05:53.549						T__				m_e	
NORI	4.68		Pn	23:05:03.462	-0.6					T__				m_e ML	5.2
OBER	3.52		Pn	23:04:49.929	1.5					T__				m_e ML	4.4
OBKA	2.76		Sg	23:05:23.774						T__				m_e	
OBKA	2.76		Pn	23:04:38.971	-0.1					T__				m_e ML	5.2
OBKA	2.76		Pg	23:04:46.697						T__				m_e	
PART	3.41		Sn	23:05:25.031						T__				m_e	
PART	3.41		Pn	23:04:45.927	-0.8					T__				m_e ML	4.8
PLONS	3.54		Sn	23:05:30.126						T__				m_e	
PLONS	3.54		Pn	23:04:50.580	1.4					T__				m_e ML	4.5

RIVT	6.72	Pn	23:05:33.161	0.6	T__	m_e		
ROTT	5.72	Pn	23:05:19.262	0.4	T__	m_e		
ROTZ	5.57	Sn	23:06:13.635		T__	m_e		
ROTZ	5.57	Pn	23:05:15.646	-0.6	T__	m_e	ML	5.0
SLE	4.48	Sn	23:05:48.762		T__	m_e		
SLE	4.48	Pn	23:05:01.382	-0.6	T__	m_e	ML	5.6
STU	5.07	Sn	23:06:02.955		T__	m_e		
STU	5.07	Pn	23:05:09.412	-0.3	T__	m_e	ML	5.3
SULZ	4.47	Sn	23:05:49.153		T__	m_e		
SULZ	4.47	Pn	23:05:01.417	-0.7	T__	m_e	ML	5.2
TNS	6.59	Sn	23:06:39.428		T__	m_e		
TNS	6.59	Pn	23:05:30.274	-0.2	T__	m_e	ML	5.0
UBR	3.82	Sn	23:05:37.329		T__	m_e		
UBR	3.82	Sg	23:05:58.095		T__	m_e		
UBR	3.82	Pn	23:04:53.440	0.9	T__	m_e	ML	5.2
WALHA	4.22	Pn	23:04:58.297	0.1	T__	m_e	ML	5.2
WET	4.95	Sn	23:05:59.613		T__	m_e		
WET	4.95	Pn	23:05:07.450	-0.4	T__	m_e	ML	4.8
WILA	4.03	Sn	23:05:40.481		T__	m_e		
WILA	4.03	Pn	23:04:56.176	0.3	T__	m_e	ML	5.1
WLF	6.93	Pn	23:05:36.327	0.6	T__	m_e	ML	5.0
WTTA	3.11	Pn	23:04:44.010	1.6	T__	m_e	ML	5.3

Event 90116002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/16	01:51:04.40			-22.6200	169.6400				42.2	0.1		15		146.01	150.33	m i ke	BGR
90116008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.6		BGR	90116008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.33		PKPbc	02:10:50.458		38.7		2.77		TAS				m_e	
BRG	146.04		PKPbc	02:10:39.107		38.7		2.77		TAS				m_e	
BRG	146.04		pPKPbc	02:10:51.767						T__				m_e	
CLL	146.11		PKPbc	02:10:38.908		38.7		2.77		TAS				m_e	
FLT1	146.01		PKPbc	02:10:38.531	0.2	38.7		2.77		TAS				m_e	
GEC2	147.61		PKPbc	02:10:43.786		38.7		2.77		TAS				m_e	
GRA1	148.08		L	03:20:00.004						T__		117.4	18.10	a_e Ms	4.7
GTTG	147.11		PKPbc	02:10:42.264	-0.5	38.7		2.77		TAS				m_e	
IBBN	147.25		PKPbc	02:10:42.522	0.4	38.7		2.77		TAS				m_e	
MANZ	147.48		PKPbc	02:10:43.277		38.7		2.77		TAS				m_e	
MOX	147.19		pPKPbc	02:10:55.167						T__				m_e	
MOX	147.19		L	03:15:11.945						T__		75.0	18.70	a_e Ms	4.5
NRDL	146.29		PKPbc	02:10:39.703	0.0	38.7		2.77		TAS				m_e	

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PLN	147.08	PKPbc	02:10:42.403	38.7	2.77	TAS	m_e
PLN	147.08	pPKPbc	02:10:55.145			T__	m_e
TNS	148.75	PKPbc	02:10:47.010	38.7	2.77	TAS	m_e
UBBA	147.69	pPKPbc	02:10:56.247			T__	m_e
UBR	150.10	PKPbc	02:10:50.054	38.7	2.77	TAS	m_e
WLF	150.03	PKPbc	02:10:50.458	38.7	2.77	TAS	m_e

Event 90116004 New Caledonia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/16	04:12:39.81			-22.4800	168.1420				42.5	5.5		24		145.26	149.59	m i ke	BGR
	90116010																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.1		BGR	90116010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.59		PKPbc	04:32:23.281		42.1		2.89		TAS				m_e	
BFO	149.59		pPKPbc	04:32:36.154	-0.6					T__				m_e	
BRG	145.26		PKPbc	04:32:11.242	-0.1	42.1		2.89		TAS				m_e	
BRG	145.26		pPKPbc	04:32:23.772						T__				m_e	
BUG	147.50		pPKPbc	04:32:31.100	-0.6					T__				m_e	
CLL	145.36		PKPbc	04:32:11.189	0.5	42.1		2.89		TAS				m_e	
CLL	145.36		pPKPbc	04:32:24.109	-0.6					T__				m_e	
CLZ	146.03		PKPbc	04:32:13.757	1.0	42.1		2.89		TAS				m_e	
CLZ	146.03		pPKPbc	04:32:26.311	-0.6					T__				m_e	
FLT1	145.31		PKPbc	04:32:10.761	0.4	42.1		2.89		TAS				m_e	
FLT1	145.31		pPKPbc	04:32:23.240	-0.6					T__				m_e	
FUR	148.41		PKPbc	04:32:20.873		42.1		2.89		TAS				m_e	
FUR	148.41		pPKPbc	04:32:33.015	-0.6					T__				m_e	
GEC2	146.78		PKPbc	04:32:15.737		42.1		2.89		TAS				m_e	
GEC2	146.78		pPKPbc	04:32:29.273	-0.6					T__				m_e	
GRA1	147.32		PKPbc	04:32:16.379		42.1		2.89		TAS				m_e	
GRA1	147.32		pPKPbc	04:32:30.811	-0.6					T__				m_e	
GRA1	147.32		L	05:54:53.273						T__		290.7	18.50	a_e Ms	5.1
GTTG	146.42		PKPbc	04:32:15.630	-0.1	42.1		2.89		TAS				m_e	
GTTG	146.42		pPKPbc	04:32:27.413	-0.6					T__				m_e	
IBBN	146.62		PKPbc	04:32:15.469	-0.1	42.1		2.89		TAS				m_e	
KAST	147.28		pPKPbc	04:32:29.696	-0.6					T__				m_e	
MANZ	146.71		PKPbc	04:32:16.004	-0.3	42.1		2.89		TAS				m_e	
MANZ	146.71		pPKPbc	04:32:29.056	-0.6					T__				m_e	
MOX	146.44		PKPbc	04:32:15.362	-0.7	42.1		2.89		TAS				m_e	
MOX	146.44		pPKPbc	04:32:28.018						T__				m_e	
MOX	146.44		L	05:42:46.428						T__		322.5	19.20	a_e Ms	5.1
NEUB	145.96		PKPbc	04:32:13.382	-0.9	42.1		2.89		TAS				m_e	
NEUB	145.96		pPKPbc	04:32:25.966						T__				m_e	

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NRDL	145.62	PKPbc	04:32:12.045	-0.4	42.1	2.89	TAS	m_e
NRDL	145.62	pPKPbc	04:32:24.096	-0.6			T__	m_e
PLN	146.32	PKPbc	04:32:15.029	-0.6	42.1	2.89	TAS	m_e
PLN	146.32	pPKPbc	04:32:27.167	-0.6			T__	m_e
ROTZ	146.83	PKPbc	04:32:16.379		42.1	2.89	TAS	m_e
ROTZ	146.83	pPKPbc	04:32:29.398	-0.6			T__	m_e
STU	148.89	PKPbc	04:32:21.194		42.1	2.89	TAS	m_e
STU	148.89	pPKPbc	04:32:34.913	-0.6			T__	m_e
TNS	148.06	PKPbc	04:32:19.482	0.4	42.1	2.89	TAS	m_e
TNS	148.06	pPKPbc	04:32:32.082	-0.6			T__	m_e
UBBA	146.97	PKPbc	04:32:16.807	-0.1	42.1	2.89	TAS	m_e
UBBA	146.97	pPKPbc	04:32:28.834				T__	m_e
UBR	149.30	PKPbc	04:32:22.800		42.1	2.89	TAS	m_e
UBR	149.30	pPKPbc	04:32:35.199	-0.6			T__	m_e
WET	146.97	PKPbc	04:32:16.218		42.1	2.89	TAS	m_e
WET	146.97	pPKPbc	04:32:30.009	-0.6			T__	m_e
WLF	149.38	PKPbc	04:32:24.244		42.1	2.89	TAS	m_e

Event 90117003 Nicobar Islands, India, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/17	02:53:04.04		6.9100	94.3800				89.9	12.0		26	78.64	83.64	m	i	ke	BGR
90117009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	90117009
MBB	6.1		BGR	90117009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	82.26		P	03:05:14.844	-0.1	91.0		5.34		TAS		90.2	0.90	m_e	MBB 6.0
BRG	78.64		P	03:04:55.941	0.2	91.0		5.34		TAS		304.9	1.68	m_e	MBB 6.1
BSEG	80.96		P	03:05:08.587	-0.1	91.0		5.34		TAS		316.3	0.99	m_e	MBB 6.4
BSEG	80.96		pP	03:05:29.398						T__				m_e	
BUG	82.85		P	03:05:18.326	-0.6	91.0		5.34		TAS		208.4	1.04	m_e	MBB 6.5
CLL	79.25		P	03:04:58.705	0.0	91.0		5.34		TAS		104.7	1.20	m_e	MBB 6.0
CLZ	80.91		P	03:05:08.141	-0.2	91.0		5.34		TAS		244.0	1.20	m_e	MBB 6.2
FLT1	80.38		P	03:05:04.419	0.1	91.0		5.34		TAS		51.2	0.83	m_e	MBB 5.7
FLT1	80.38		pP	03:05:28.269						T__				m_e	
FUR	80.30		P	03:05:04.576	-0.9	91.0		5.34		TAS		85.1	0.82	m_e	MBB 6.1
GEC2	78.70		P	03:04:56.424	-0.1	91.0		5.34		TAS		118.9	0.83	m_e	mb 6.0
GOR1	80.35		P	03:05:05.082	0.5	91.0		5.34		TAS		267.2	1.27	m_e	MBB 6.2
GOR1	80.35		pP	03:05:29.224						T__				m_e	
GRA1	80.35		P	03:05:05.580	0.0	91.0		5.34		TAS		122.8	1.33	m_e	mb 5.7
GTTG	81.16		P	03:05:09.508	0.1	91.0		5.34		TAS		228.2	1.21	m_e	MBB 6.2
IBBN	82.52		P	03:05:16.830	0.6	91.0		5.34		TAS		303.6	1.00	m_e	MBB 6.6
KAST	82.13		P	03:05:14.628	0.0	91.0		5.34		TAS		84.2	0.97	m_e	MBB 6.0

MANZ	79.78	P	03:05:02.632	-0.1	91.0	5.34	TAS	58.5	1.29	m_e	MBB	5.5
MOX	80.11	P	03:05:03.876	0.4	91.0	5.34	TAS	175.1	1.50	m_e	MBB	5.8
NEUB	80.02	P	03:05:03.314	-0.1	91.0	5.34	TAS	144.7	1.08	m_e	MBB	6.0
NRDL	81.07	P	03:05:09.433	0.5	91.0	5.34	TAS	247.3	1.14	m_e	MBB	6.4
NRDL	81.07	pP	03:05:34.885				T__				m_e	
PLN	79.76	P	03:05:01.923	-0.0	91.0	5.34	TAS	17.5	0.89	m_e	MBB	5.3
ROTZ	79.71	P	03:05:02.185	-0.2	91.0	5.34	TAS	24.1	0.97	m_e	MBB	5.4
RUE	78.83	P	03:04:56.989	0.2	91.0	5.34	TAS	238.2	0.80	m_e	MBB	6.5
STU	81.68	P	03:05:11.896	0.3	91.0	5.34	TAS	128.3	0.85	m_e	MBB	6.5
TNS	82.14	P	03:05:14.757		91.0	5.34	TAS	116.9	1.18	m_e	MBB	6.0
UBR	81.08	P	03:05:08.752		91.0	5.34	TAS	74.3	0.75	m_e	MBB	6.1
WET	79.25	P	03:04:59.404		91.0	5.34	TAS	79.3	0.88	m_e	MBB	6.1
WLF	83.64	P	03:05:22.972		91.0	5.34	TAS	168.2	1.21	m_e	MBB	6.4

Event 90118002 Eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/18	12:46:29.16			37.3400	140.0500				58.5	2.7		24		79.08	84.50	m i ke	BGR
90118008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90118008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.50		P	12:58:58.949		38.7		5.27		TAS		42.7	0.84	m_e	mb 5.7
BRG	80.23		P	12:58:36.971	0.2	38.7		5.27		TAS		22.5	0.81	m_e	mb 5.1
BSEG	79.29		P	12:58:31.362	-0.3	38.7		5.27		TAS		45.3	1.01	m_e	mb 5.5
BSEG	79.29		pP	12:58:48.385						T__					m_e
BUG	82.40		P	12:58:47.766		38.7		5.27		TAS		20.6	0.77	m_e	mb 5.3
CLL	80.29		P	12:58:36.631	0.3	38.7		5.27		TAS		48.8	0.79	m_e	mb 5.5
CLL	80.29		pP	12:58:53.202						T__					m_e
CLZ	80.91		P	12:58:40.325	0.1	38.7		5.27		TAS		33.2	0.86	m_e	mb 5.4
FLT1	80.20		P	12:58:36.063	-0.4	38.7		5.27		TAS		46.7	0.84	m_e	mb 5.5
FLT1	80.20		pP	12:58:52.405						T__					m_e
FUR	83.43		P	12:58:53.351		38.7		5.27		TAS		60.3	0.76	m_e	mb 5.9
GEC2	81.87		P	12:58:45.139		38.7		5.27		TAS		10.1	0.81	m_e	mb 5.0
GRA1	82.26		P	12:58:47.521	0.3	38.7		5.27		TAS		55.7	0.81	m_e	mb 5.7
GTTG	81.30		P	12:58:42.768	0.5	38.7		5.27		TAS		34.0	0.87	m_e	mb 5.4
IBBN	81.52		P	12:58:43.415	-0.0	38.7		5.27		TAS		50.2	0.80	m_e	mb 5.7
KAST	82.17		P	12:58:47.180	-0.0	38.7		5.27		TAS		14.9	0.77	m_e	mb 5.2
MANZ	81.67		P	12:58:44.463	0.1	38.7		5.27		TAS		4.9	0.85	m_e	mb 4.7
MANZ	81.67		pP	12:59:00.427						T__					m_e
MOX	81.36		P	12:58:42.870	0.2	38.7		5.27		TAS		12.1	0.79	m_e	mb 5.0
NEUB	80.87		P	12:58:40.034	0.3	38.7		5.27		TAS		51.0	0.83	m_e	mb 5.6
NEUB	80.87		pP	12:58:56.201						T__					m_e
NRDL	80.50		P	12:58:38.043	-0.0	38.7		5.27		TAS		17.0	0.78	m_e	mb 5.1



NRDL	80.50	pP	12:58:54.452							T__						m_e	
ROTZ	81.80	P	12:58:45.141	-0.2	38.7		5.27			TAS	3.2	0.74	m_e	mb			4.5
RUE	79.08	P	12:58:30.446	-0.2	38.7		5.27			TAS			m_e				
STU	83.80	P	12:58:55.033		38.7		5.27			TAS	100.2	0.83	m_e	mb			6.1
TANN	81.19	P	12:58:41.849	0.2	38.7		5.27			TAS	5.9	0.81	m_e	mb			4.7
UBR	84.29	P	12:58:57.500		38.7		5.27			TAS	8.4	0.82	m_e	mb			5.0
WET	82.00	P	12:58:46.067	-0.6	38.7		5.27			TAS	13.1	0.96	m_e	mb			5.0
WLF	84.26	P	12:58:57.990		38.7		5.27			TAS	30.7	1.11	m_e	mb			5.4

Event 90118003 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/18	20:04:18.15			43.6200	140.7500				54.0	2.1		21		73.99	79.22	m i ke	BGR
OrigID 90118009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90118009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	75.16		P	20:15:57.528	0.6	36.3		5.57		TAS		8.8	0.84	m_e	mb	4.8
BSEG	73.99		P	20:15:50.918	0.1	36.3		5.57		TAS		24.6	0.90	m_e	mb	5.2
BSEG	73.99		pP	20:16:06.277	0.1					T__				m_e		
BUG	77.09		P	20:16:08.578	0.2	36.3		5.57		TAS		14.9	0.91	m_e	mb	5.1
CLL	75.16		P	20:15:57.474	0.2	36.3		5.57		TAS		23.1	0.85	m_e	mb	5.2
CLL	75.16		pP	20:16:12.550	0.1					T__				m_e		
CLZ	75.69		P	20:16:00.479	0.1	36.3		5.57		TAS		20.7	0.84	m_e	mb	5.3
FLT1	74.98		P	20:15:56.526	-0.6	36.3		5.57		TAS		26.1	0.78	m_e	mb	5.3
FUR	78.37		P	20:16:15.560		36.3		5.57		TAS		29.1	0.81	m_e	mb	5.5
FUR	78.37		pP	20:16:31.163	0.1					T__				m_e		
GEC2	76.88		P	20:16:07.173		36.3		5.57		TAS		8.1	0.89	m_e	mb	4.9
GRA1	77.14		P	20:16:09.152		36.3		5.57		TAS		29.3	0.80	m_e	mb	5.5
GTTG	76.07		P	20:16:02.558	0.0	36.3		5.57		TAS		17.7	0.83	m_e	mb	5.2
IBBN	76.20		P	20:16:03.456	-0.1	36.3		5.57		TAS		31.0	0.96	m_e	mb	5.4
IBBN	76.20		pP	20:16:19.192	0.1					T__				m_e		
KAST	76.90		P	20:16:07.507	0.6	36.3		5.57		TAS		10.3	0.88	m_e	mb	5.0
MANZ	76.57		P	20:16:05.760		36.3		5.57		TAS		2.0	0.82	m_e	mb	4.3
MOX	76.22		P	20:16:03.687	-0.1	36.3		5.57		TAS		8.6	0.87	m_e	mb	4.9
NEUB	75.71		P	20:16:00.894	0.6	36.3		5.57		TAS		25.3	0.82	m_e	mb	5.4
NEUB	75.71		pP	20:16:15.688	0.1					T__				m_e		
NRDL	75.24		P	20:15:58.056	0.4	36.3		5.57		TAS		8.5	0.84	m_e	mb	4.8
ROTZ	76.71		P	20:16:06.529		36.3		5.57		TAS		2.7	0.93	m_e	mb	4.3
ROTZ	76.71		pP	20:16:21.605	0.1					T__				m_e		
TANN	76.09		P	20:16:02.831		36.3		5.57		TAS		3.7	0.85	m_e	mb	4.5
TNS	77.71		P	20:16:12.153		36.3		5.57		TAS				m_e		
UBR	79.22		P	20:16:20.282	0.1	36.3		5.57		TAS				m_e		
WET	76.96		P	20:16:08.039		36.3		5.57		TAS		14.9	0.86	m_e	mb	5.1

Event 90118004 Northern Peru

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/18	21:27:03.81			-2.6080	-73.6480				109.4	2.7		19		85.38	90.48	m i ke	BGR
OrigID 90118010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90118010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	86.60		P	21:39:44.342		264.4		4.71		TAS		8.8	1.15	m_e mb	4.8
BFO	86.60		pP	21:40:13.440						T__				m_e	
BRG	90.48		P	21:40:02.509	0.1	264.4		4.71		TAS		7.1	0.94	m_e mb	4.9
BRG	90.48		pP	21:40:31.339						T__				m_e	
BSEG	88.53		P	21:39:53.949	0.2	264.4		4.71		TAS		11.6	0.94	m_e mb	5.1
BUG	86.36		P	21:39:43.663	0.4	264.4		4.71		TAS		48.4	1.27	m_e mb	5.5
CLL	89.92		P	21:40:00.648	-0.2	264.4		4.71		TAS		6.8	1.14	m_e mb	4.8
CLZ	88.33		P	21:39:52.505	-0.3	264.4		4.71		TAS		8.0	0.86	m_e mb	5.1
FLT1	88.91		P	21:39:55.064	-0.5	264.4		4.71		TAS				m_e	
GEC2	90.20		P	21:40:01.346	0.6	264.4		4.71		TAS				m_e	
GRA1	88.65		P	21:39:54.133	-0.1	264.4		4.71		TAS				m_e	
GTTG	88.05		P	21:39:51.871		264.4		4.71		TAS		11.0	1.02	m_e mb	5.1
GTTG	88.05		pP	21:40:19.934						T__				m_e	
IBBN	86.79		P	21:39:45.524	0.0	264.4		4.71		TAS				m_e	
KAST	87.04		P	21:39:46.455	-0.4	264.4		4.71		TAS		6.9	0.92	m_e mb	4.8
KAST	87.04		pP	21:40:15.036						T__				m_e	
MANZ	89.24		P	21:39:57.158	-0.1	264.4		4.71		TAS				m_e	
MOX	88.99		P	21:39:55.995	0.5	264.4		4.71		TAS				m_e	
NRDL	88.24		P	21:39:52.905	0.5	264.4		4.71		TAS		20.2	1.22	m_e mb	5.3
NRDL	88.24		pP	21:40:20.855						T__				m_e	
ROTZ	89.29		P	21:39:57.158	-0.1	264.4		4.71		TAS		6.7	1.38	m_e mb	4.7
TANN	89.51		P	21:39:58.787	-0.4	264.4		4.71		TAS		13.7	1.16	m_e mb	5.1
TANN	89.51		pP	21:40:26.781						T__				m_e	
TNS	86.93		P	21:39:45.757	0.1	264.4		4.71		TAS		18.2	1.12	m_e mb	5.1
UBR	87.70		P	21:39:50.410		264.4		4.71		TAS		15.8	0.90	m_e mb	5.3
WET	89.68		P	21:39:59.019	-0.2	264.4		4.71		TAS				m_e	
WLF	85.38		P	21:39:38.777	-0.1	264.4		4.71		TAS		35.2	1.12	m_e mb	5.5
WLF	85.38		pP	21:40:07.604						T__				m_e	

Event 90119002 Switzerland

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

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2019/01/19 03:01:24.07 0.50 0.86 46.9150 9.7770 7.8 4.4 160 10.0 16 223 0.30 3.19 m i ke BGR  
90119008

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BERGE	1.45		Pn	03:01:49.703	0.2					T__				m_e	
BFO	1.72		Pn	03:01:53.357	0.2					T__				m_e	
DAVA	0.38		Sg	03:01:36.393	-0.0					T__				m_e	
DAVA	0.38		Pg	03:01:30.333	-1.1					T__				m_e ML	2.2
ECH	2.20		Pn	03:02:00.075	0.5					T__				m_e	
EMING	1.17		Pg	03:01:46.738						T__				m_e ML	2.3
FUR	1.61		Sg	03:02:15.378	0.2					T__				m_e	
FUR	1.61		Pn	03:01:53.088	1.4					T__				m_e ML	2.8
METMA	1.31		Pn	03:01:47.675	0.1					T__				m_e	
MOA	3.19		Pn	03:02:13.711	0.7					T__				m_e	
NORI	1.89		Sg	03:02:24.001	-0.2					T__				m_e ML	2.9
OBER	0.61		Sg	03:01:44.941	1.4					T__				m_e	
OBER	0.61		Pg	03:01:34.148	-1.4					T__				m_e	
PLONS	0.30		Sg	03:01:34.239	0.1					T__				m_e	
PLONS	0.30		Pg	03:01:28.825	-1.2					T__				m_e ML	1.3
SULZ	1.29		Pn	03:01:47.820	0.5					T__				m_e ML	2.5
SULZ	1.29		Pg	03:01:49.108	0.7					T__				m_e	
UBR	0.80		Pn	03:01:38.890	-1.8					T__				m_e	
WALHA	0.95		Pg	03:01:41.942						T__				m_e ML	2.3
WILA	0.78		Pg	03:01:38.532	-0.2					T__				m_e ML	2.5
WTTA	1.32		Pn	03:01:46.991	-0.7					T__				m_e	

Event 90119003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/19	07:48:54.83			-19.1040	-175.6220				33.0			15		144.93	151.12	m i ke	BGR

90119009

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.67		PKPbc	08:08:44.268		12.6		2.68		TAS				m_e	
BRG	147.40		PKPbc	08:08:35.507	0.1	12.6		2.68		TAS				m_e	
BSEG	144.93		PKPbc	08:08:28.569	-0.7	12.6		2.68		TAS				m_e	
CLL	147.15		PKPbc	08:08:34.796	-0.1	12.6		2.68		TAS				m_e	
CLZ	146.99		PKPbc	08:08:34.493	-0.3	12.6		2.68		TAS				m_e	
FLT1	146.41		PKPbc	08:08:32.494	0.2	12.6		2.68		TAS				m_e	
GEC2	149.39		PKPbc	08:08:40.843		12.6		2.68		TAS				m_e	
GTTG	147.33		PKPbc	08:08:35.597	0.5	12.6		2.68		TAS				m_e	
IBBN	146.76		PKPbc	08:08:34.117	-0.3	12.6		2.68		TAS				m_e	

KAST	147.81	PKPbc	08:08:36.704	-0.1	12.6	2.68	TAS	m_e
MANZ	148.57	PKPbc	08:08:38.722	-0.1	12.6	2.68	TAS	m_e
MOX	148.01	PKPbc	08:08:36.990	0.1	12.6	2.68	TAS	m_e
NEUB	147.45	PKPbc	08:08:35.633	0.4	12.6	2.68	TAS	m_e
NRDL	146.38	PKPbc	08:08:32.378	-0.3	12.6	2.68	TAS	m_e
ROTZ	148.77	PKPbc	08:08:39.266		12.6	2.68	TAS	m_e
RUE	145.89	PKPbc	08:08:31.073	0.0	12.6	2.68	TAS	m_e
TANN	148.10	PKPbc	08:08:37.184	-0.4	12.6	2.68	TAS	m_e
TNS	148.78	PKPbc	08:08:39.187	-0.4	12.6	2.68	TAS	m_e
UBR	151.12	PKPbc	08:08:45.334		12.6	2.68	TAS	m_e

Event 90120001 Southern Bolivia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/20	01:32:51.00			-30.0740	-71.4230				53.0				26	104.94	110.49	m i ke	NEIC
90120068																	

Magnitude	Err	Nsta	Author	OrigID
Ms	6.2		BGR	90120007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	105.57		Pdiff	01:46:55.264		244.9		4.54		TAS					m_e
BRG	109.96		Pdiff	01:47:15.437		244.9		4.54		TAS					m_e
BSEG	109.17		Pdiff	01:47:11.701	-0.2	244.9		4.54		TAS					m_e
BUG	106.41		Pdiff	01:46:59.467	-0.2	244.9		4.54		TAS					m_e
CLL	109.59		Pdiff	01:47:13.671	-0.5	244.9		4.54		TAS					m_e
CLZ	108.32		Pdiff	01:47:07.878		244.9		4.54		TAS					m_e
FLT1	109.01		Pdiff	01:47:10.872	-0.2	244.9		4.54		TAS					m_e
FUR	107.25		Pdiff	01:47:03.304		244.9		4.54		TAS					m_e
GEC2	109.00		Pdiff	01:47:11.077		244.9		4.54		TAS					m_e
GRA1	107.88		Pdiff	01:47:06.725		244.9		4.54		TAS					m_e
GRA1	107.88		L	02:33:57.200						T__		7719.1	21.70	a_e Ms	6.2
GTTG	107.96		Pdiff	01:47:06.666		244.9		4.54		TAS					m_e
IBBN	107.08		Pdiff	01:47:02.370	0.0	244.9		4.54		TAS					m_e
KAST	106.94		Pdiff	01:47:01.437	0.1	244.9		4.54		TAS					m_e
MANZ	108.53		Pdiff	01:47:08.909		244.9		4.54		TAS					m_e
MOX	108.52		Pdiff	01:47:08.861		244.9		4.54		TAS					m_e
MOX	108.52		L	02:37:15.217						T__		5526.1	21.50	a_e Ms	6.1
NEUB	108.84		Pdiff	01:47:09.998		244.9		4.54		TAS					m_e
NRDL	108.45		Pdiff	01:47:08.710	0.4	244.9		4.54		TAS					m_e
ROTZ	108.49		Pdiff	01:47:09.071		244.9		4.54		TAS					m_e
RUE	110.49		Pdiff	01:47:17.715	-0.1	244.9		4.54		TAS					m_e
STU	106.28		Pdiff	01:46:58.845		244.9		4.54		TAS					m_e
TANN	108.91		Pdiff	01:47:10.534		244.9		4.54		TAS					m_e
TNS	106.51		Pdiff	01:46:59.778		244.9		4.54		TAS					m_e
UBBA	107.66		Pdiff	01:47:04.791	0.2	244.9		4.54		TAS					m_e

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UBR	106.33	Pdiff	01:46:58.845	244.9	4.54	TAS	m_e
WET	108.63	Pdiff	01:47:09.813	244.9	4.54	TAS	m_e
WLF	104.94	Pdiff	01:46:52.831	244.9	4.54	TAS	m_e

Event 90120002 Xizang

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/20	14:28:29.85			29.7920	88.0290				33.0			17		57.76	62.90	m i ke	BGR
90120008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90120008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	57.76		P	14:38:16.827	-0.3	78.6		6.90		TAS		10.8	0.87	m_e mb	4.9
BSEG	59.47		P	14:38:28.091	0.8	78.6		6.90		TAS		18.4	0.85	m_e mb	5.1
BUG	61.78		P	14:38:44.016		78.6		6.90		TAS		14.5	0.96	m_e mb	5.2
CLL	58.28		P	14:38:19.747	-0.1	78.6		6.90		TAS		5.2	0.89	m_e mb	4.6
CLZ	59.80		P	14:38:30.813	-0.1	78.6		6.90		TAS		19.7	0.83	m_e mb	5.2
FLT1	59.19		P	14:38:26.151	-0.8	78.6		6.90		TAS		12.5	0.89	m_e mb	5.0
FUR	59.96		P	14:38:31.889		78.6		6.90		TAS		34.7	1.11	m_e mb	5.3
GEC2	58.25		P	14:38:20.362		78.6		6.90		TAS		11.3	0.92	m_e mb	4.9
GRA1	59.69		P	14:38:30.352		78.6		6.90		TAS		14.1	1.00	m_e mb	5.0
GTTG	60.11		P	14:38:32.805	-0.1	78.6		6.90		TAS		10.2	0.98	m_e mb	4.8
IBBN	61.29		P	14:38:41.034	0.0	78.6		6.90		TAS		13.3	0.93	m_e mb	4.8
KAST	61.13		P	14:38:39.567		78.6		6.90		TAS		7.5	1.20	m_e mb	4.4
MANZ	59.07		P	14:38:26.049	0.2	78.6		6.90		TAS		2.7	1.09	m_e mb	4.2
MOX	59.26		P	14:38:26.902	0.1	78.6		6.90		TAS		7.9	0.92	m_e mb	4.7
NEUB	59.06		P	14:38:25.587		78.6		6.90		TAS		15.1	0.85	m_e mb	5.0
NRDL	59.84		P	14:38:31.043	0.4	78.6		6.90		TAS		34.9	0.92	m_e mb	5.4
RJOB	59.05		P	14:38:25.166		78.6		6.90		TAS		4.9	1.08	m_e mb	4.5
ROTZ	59.04		P	14:38:25.715	0.1	78.6		6.90		TAS		3.0	0.92	m_e mb	4.3
STU	61.18		P	14:38:40.343		78.6		6.90		TAS		26.7	0.79	m_e mb	5.1
TANN	58.77		P	14:38:23.590	0.7	78.6		6.90		TAS		8.3	0.91	m_e mb	4.8
TNS	61.33		P	14:38:41.187	0.5	78.6		6.90		TAS		12.2	0.87	m_e mb	4.8
UBBA	60.23		P	14:38:33.426	-0.3	78.6		6.90		TAS		3.1	0.84	m_e mb	4.4
WET	58.73		P	14:38:23.820		78.6		6.90		TAS		6.3	0.91	m_e mb	4.6
WLF	62.90		P	14:38:52.198	0.1	78.6		6.90		TAS		11.2	0.86	m_e mb	5.0

Event 90120003 Bhutan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/20	15:06:23.33			27.8600	90.3420				33.0					62.48	62.48	m i ke	BGR

90120009

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90120009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	62.48		P	15:16:42.868		86.4		6.20		TAS		3.5	1.01	m_e	mb 4.5

Event 90120004 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/20	15:50:19.00			37.5140	26.4580				33.0			13		14.63	19.84	m i ke	BGR
OrigID 90120010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90120010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	17.08		P	15:54:14.875	0.3	132.3		11.08		TAS				m_e	
BRG	16.06		P	15:54:05.109	-0.1	132.3		11.08		TAS		34.7	0.79	m_e	mb 4.5
BSEG	19.84		P	15:54:44.801	-0.9	132.3		11.08		TAS		53.1	1.02	m_e	mb 4.7
BUG	19.45		P	15:54:43.382	0.3	132.3		11.08		TAS		21.3	0.97	m_e	mb 4.3
CLL	16.77		P	15:54:12.556	-0.1	132.3		11.08		TAS		41.5	0.69	m_e	mb 4.7
CLZ	18.27		P	15:54:29.493	0.3	132.3		11.08		TAS				m_e	
FLT1	18.26		P	15:54:28.818	-0.1	132.3		11.08		TAS		30.1	0.78	m_e	mb 4.5
FUR	15.37		P	15:53:57.806		132.3		11.08		TAS		79.5	0.86	m_e	
GEC2	14.63		P	15:53:49.332		132.3		11.08		TAS		59.2	1.25	m_e	
GRA1	16.39		P	15:54:09.382	0.3	132.3		11.08		TAS		36.5	0.72	m_e	
GTTG	18.24		P	15:54:29.730	0.3	132.3		11.08		TAS		29.2	0.97	m_e	
IBBN	19.77		P	15:54:46.357	0.3	132.3		11.08		TAS				m_e	
KAST	18.74		P	15:54:35.274	0.3	132.3		11.08		TAS				m_e	
MANZ	16.18		P	15:54:06.905	0.3	132.3		11.08		TAS		12.5	1.16	m_e	
MOX	16.87		P	15:54:15.100	0.3	132.3		11.08		TAS		64.5	1.10	m_e	
NEUB	17.20		P	15:54:18.590	-0.7	132.3		11.08		TAS				m_e	
NRDL	18.85		P	15:54:35.620	0.3	132.3		11.08		TAS				m_e	
PLN	16.51		P	15:54:10.642		132.3		11.08		TAS				m_e	
ROTZ	15.98		P	15:54:04.894		132.3		11.08		TAS		26.1	1.87	m_e	
RUE	17.40		P	15:54:17.592	1.6	132.3		11.08		TAS		69.3	0.79	m_e	
STU	16.85		P	15:54:13.359	0.3	132.3		11.08		TAS				m_e	
TANN	16.33		P	15:54:07.973		132.3		11.08		TAS				m_e	
TNS	18.11		P	15:54:28.106	0.3	132.3		11.08		TAS				m_e	
UBBA	17.73		P	15:54:24.875	0.3	132.3		11.08		TAS				m_e	
UBR	15.72		P	15:54:01.298		132.3		11.08		TAS		40.8	0.80	m_e	
WET	15.23		P	15:53:55.877		132.3		11.08		TAS				m_e	
WLF	19.00		P	15:54:36.507	0.3	132.3		11.08		TAS				m_e	

## Event 90120005 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/20	23:08:50.38			-22.1600	-174.4500				71.7	0.8		23		148.07	154.28	m i ke	BGR
OrigID 90120011																	

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	153.79		PKPbc	23:28:46.767		10.7		2.41		TAS					m_e
BRG	150.60		PKPbc	23:28:39.620	0.1	10.7		2.41		TAS					m_e
BSEG	148.07		PKPbc	23:28:32.867	-0.4	10.7		2.41		TAS					m_e
BUG	150.74		PKPbc	23:28:39.466	0.4	10.7		2.41		TAS					m_e
CLL	150.33		PKPbc	23:28:38.571	0.0	10.7		2.41		TAS					m_e
CLZ	150.14		PKPbc	23:28:38.043		10.7		2.41		TAS					m_e
FLT1	149.56		PKPbc	23:28:36.539	-0.2	10.7		2.41		TAS					m_e
FUR	153.65		PKPbc	23:28:46.570		10.7		2.41		TAS					m_e
GEC2	152.59		PKPbc	23:28:43.947		10.7		2.41		TAS					m_e
GEC2	152.59		pPKPbc	23:29:04.433	-0.5					T__					m_e
GTTG	150.47		PKPbc	23:28:38.660	0.4	10.7		2.41		TAS					m_e
IBBN	149.86		PKPbc	23:28:37.522		10.7		2.41		TAS					m_e
KAST	150.93		PKPbc	23:28:40.042	0.1	10.7		2.41		TAS					m_e
MANZ	151.75		PKPbc	23:28:42.143	-0.4	10.7		2.41		TAS					m_e
MANZ	151.75		pPKPbc	23:29:02.337	-0.5					T__					m_e
MOX	151.18		PKPbc	23:28:40.800	0.6	10.7		2.41		TAS					m_e
NEUB	150.62		PKPbc	23:28:39.055	0.3	10.7		2.41		TAS					m_e
NRDL	149.51		PKPbc	23:28:36.500	-0.5	10.7		2.41		TAS					m_e
ROTZ	151.95		PKPbc	23:28:42.633	-0.2	10.7		2.41		TAS					m_e
ROTZ	151.95		pPKPbc	23:29:02.957	-0.5					T__					m_e
RUE	149.08		PKPbc	23:28:35.621	-0.3	10.7		2.41		TAS					m_e
TANN	151.28		PKPbc	23:28:41.325	0.7	10.7		2.41		TAS					m_e
TNS	151.90		PKPbc	23:28:42.636	-0.4	10.7		2.41		TAS					m_e
UBBA	151.18		PKPbc	23:28:40.800	0.5	10.7		2.41		TAS					m_e
UBR	154.28		PKPbc	23:28:47.685		10.7		2.41		TAS					m_e
UBR	154.28		pPKPbc	23:29:08.192	-0.5					T__					m_e
WLF	152.55		PKPbc	23:28:44.497	-0.5	10.7		2.41		TAS					m_e
WLF	152.55		pPKPbc	23:29:04.953	-0.5					T__					m_e

## Event 90121001 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/21	00:35:46.03			-22.5400	170.0400				41.9	1.0		26		145.00	150.42	m i ke	BGR
OrigID 90121007																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	150.42		PKPbc	00:55:34.287	-0.6	37.4		3.02		TAS					m_e	
BRG	146.14		PKPbc	00:55:22.078	-0.1	37.4		3.02		TAS					a_e	
BRG	146.14		pPKPbc	00:55:34.963	0.3					T__					m_e	
BSEG	145.10		PKPbc	00:55:18.857	-0.1	37.4		3.02		TAS					m_e	
BUG	148.20		PKPbc	00:55:28.307	-0.1	37.4		3.02		TAS					m_e	
CLL	146.21		PKPbc	00:55:22.028	-0.2	37.4		3.02		TAS					a_e	
CLZ	146.80		PKPbc	00:55:23.940	-0.1	37.4		3.02		TAS					m_e	
FLT1	146.09		PKPbc	00:55:21.578	-0.3	37.4		3.02		TAS					m_e	
FLT1	146.09		pPKPbc	00:55:33.924	0.3					T__					m_e	
FUR	149.32		PKPbc	00:55:31.572	-0.2	37.4		3.02		TAS					m_e	
GEC2	147.73		PKPbc	00:55:27.072	0.8	37.4		3.02		TAS					m_e	
GEC2	147.73		pPKPbc	00:55:39.503	0.3					T__					m_e	
GRA1	148.18		PKPbc	00:55:28.227	0.0	37.4		3.02		TAS					m_e	
GTTG	147.19		PKPbc	00:55:25.528	0.4	37.4		3.02		TAS					a_e	
IBBN	147.31		PKPbc	00:55:25.528	-0.2	37.4		3.02		TAS					a_e	
KAST	148.02		PKPbc	00:55:28.230	0.5	37.4		3.02		TAS					m_e	
MANZ	147.58		PKPbc	00:55:26.232	-0.2	37.4		3.02		TAS					m_e	
MOX	147.28		PKPbc	00:55:25.737	0.3	37.4		3.02		TAS					m_e	
NEUB	146.78		PKPbc	00:55:23.990	0.4	37.4		3.02		TAS					m_e	
NRDL	146.36		PKPbc	00:55:22.359	-0.3	37.4		3.02		TAS					m_e	
NRDL	146.36		pPKPbc	00:55:34.986	0.3					T__					m_e	
ROTZ	147.71		PKPbc	00:55:26.685	-0.1	37.4		3.02		TAS					m_e	
RUE	145.00		PKPbc	00:55:18.304	-0.8	37.4		3.02		TAS					m_e	
STU	149.72		PKPbc	00:55:32.503	0.3	37.4		3.02		TAS					m_e	
TANN	147.11		PKPbc	00:55:25.487	0.5	37.4		3.02		TAS					m_e	
TNS	148.82		PKPbc	00:55:30.328	0.2	37.4		3.02		TAS					a_e	
UBBA	147.76		PKPbc	00:55:27.278	0.4	37.4		3.02		TAS					a_e	
UBR	150.20		PKPbc	00:55:33.378	-1.0	37.4		3.02		TAS					m_e	
WET	147.88		PKPbc	00:55:27.678	0.2	37.4		3.02		TAS					a_e	
WLF	150.09		PKPbc	00:55:34.298	0.3	37.4		3.02		TAS					m_e	

Event 90121002 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/21	01:36:33.14			-22.3110	172.5580				35.1	1.4		11		145.68	151.14	m i k e	BGR
	90121008																

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	151.14		PKPbc	01:56:22.920		35.0		2.68		TAS					m_e	
BRG	146.97		PKPbc	01:56:11.296	0.2	35.0		2.68		TAS					m_e	



BRG	146.97	pPKPbc	01:56:22.267	-0.2						T__		m_e
BSEG	145.68	PKPbc	01:56:08.858	0.3	35.0		2.68			TAS		m_e
BUG	148.76	PKPbc	01:56:17.369		35.0		2.68			TAS		m_e
CLL	146.98	PKPbc	01:56:11.716	-0.2	35.0		2.68			TAS		m_e
CLL	146.98	pPKPbc	01:56:22.152	-0.2						T__		m_e
CLZ	147.46	PKPbc	01:56:13.240		35.0		2.68			TAS		m_e
FLT1	146.76	PKPbc	01:56:11.177	-0.8	35.0		2.68			TAS		m_e
FUR	150.18	PKPbc	01:56:20.722		35.0		2.68			TAS		m_e
GEC2	148.64	PKPbc	01:56:16.529		35.0		2.68			TAS		m_e
GRA1	148.96	PKPbc	01:56:17.331		35.0		2.68			TAS		m_e
GTTG	147.84	PKPbc	01:56:14.284		35.0		2.68			TAS		m_e
IBBN	147.85	PKPbc	01:56:14.668		35.0		2.68			TAS		m_e
KAST	148.63	PKPbc	01:56:16.360		35.0		2.68			TAS		m_e
MANZ	148.38	PKPbc	01:56:15.904		35.0		2.68			TAS		m_e
MANZ	148.38	pPKPbc	01:56:26.156	-0.2						T__		m_e
MOX	148.03	PKPbc	01:56:15.034		35.0		2.68			TAS		m_e
NEUB	147.52	PKPbc	01:56:13.325		35.0		2.68			TAS		m_e
NRDL	146.98	PKPbc	01:56:12.133		35.0		2.68			TAS		m_e
NRDL	146.98	pPKPbc	01:56:22.747	-0.2						T__		m_e
ROTZ	148.52	PKPbc	01:56:16.796		35.0		2.68			TAS		m_e
TANN	147.90	PKPbc	01:56:14.477		35.0		2.68			TAS		m_e
TNS	149.47	PKPbc	01:56:19.341		35.0		2.68			TAS		m_e
UBBA	148.45	PKPbc	01:56:16.043		35.0		2.68			TAS		m_e
UBBA	148.45	pPKPbc	01:56:26.568	-0.2						T__		m_e
UBR	151.03	PKPbc	01:56:22.861		35.0		2.68			TAS		m_e
WET	148.75	PKPbc	01:56:16.439		35.0		2.68			TAS		m_e
WLF	150.66	PKPbc	01:56:22.524		35.0		2.68			TAS		m_e

Event 90121003 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/21	08:17:26.79			26.0950	-44.6950				10.0			9		46.63	50.23	m i ke	BGR
90121009																	

Magnitude Err Nsta Author OrigID  
mb 4.7 BGR 90121009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	46.63		P	08:25:51.241	-1.1	262.4		7.69		TAS		6.7	0.92	m_e mb	4.8
BSEG	48.88		P	08:26:07.929	0.5	262.4		7.69		TAS		38.1	0.84	m_e mb	5.5
CLL	50.04		P	08:26:17.885	0.1	262.4		7.69		TAS		11.8	1.01	m_e mb	4.8
CLZ	48.50		P	08:26:05.608	-0.2	262.4		7.69		TAS		14.7	0.95	m_e mb	5.0
FLT1	49.12		P	08:26:10.261	-1.1	262.4		7.69		TAS		8.9	1.02	m_e mb	4.7
GEC2	50.23		P	08:26:18.945		262.4		7.69		TAS		3.5	0.83	m_e mb	4.3
MANZ	49.31		P	08:26:12.429	-1.1	262.4		7.69		TAS		2.0	0.85	m_e mb	4.2
MOX	49.09		P	08:26:10.296	-0.2	262.4		7.69		TAS		7.0	0.97	m_e mb	4.7

NRDL	48.46	P	08:26:05.463	0.3	262.4	7.69	TAS	23.3	0.97	m_e	mb	5.3
TANN	49.59	P	08:26:14.316	0.4	262.4	7.69	TAS	3.4	0.87	m_e	mb	4.3
UBR	47.72	P	08:25:59.962	-1.1	262.4	7.69	TAS	5.0	0.85	m_e	mb	4.7
WET	49.72	P	08:26:15.543	-0.3	262.4	7.69	TAS	2.2	0.84	m_e	mb	4.1

Event 90121004 Off coast of Chiapas, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/21	11:57:18.90			13.2390	-92.9940				33.0			22		85.85	90.80	m i ke	BGR
OrigID 90121010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90121010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	87.60		P	12:10:03.218		289.3		4.70		TAS		16.2	1.21	m_e	mb	5.2
BRG	90.21		P	12:10:16.025		289.3		4.70		TAS		6.1	0.91	m_e	mb	4.8
BSEG	87.08		P	12:10:01.074	-0.1	289.3		4.70		TAS				m_e		
BUG	86.05		P	12:09:56.549	-0.5	289.3		4.70		TAS		14.1	0.98	m_e	mb	5.1
CLL	89.50		P	12:10:12.791		289.3		4.70		TAS		5.6	0.91	m_e	mb	4.8
CLZ	87.78		P	12:10:04.814		289.3		4.70		TAS		24.5	1.13	m_e	mb	5.4
FLT1	88.12		P	12:10:05.710		289.3		4.70		TAS				m_e		
GEC2	90.80		P	12:10:18.203		289.3		4.70		TAS				m_e		
GTTG	87.63		P	12:10:04.251		289.3		4.70		TAS		34.1	1.06	m_e	mb	5.6
IBBN	86.10		P	12:09:57.025	0.1	289.3		4.70		TAS		18.5	0.94	m_e	mb	5.2
KAST	86.81		P	12:10:00.002		289.3		4.70		TAS				m_e		
MANZ	89.43		P	12:10:11.481		289.3		4.70		TAS		0.8	0.87	m_e	mb	4.0
MOX	88.91		P	12:10:09.633		289.3		4.70		TAS				m_e		
NRDL	87.41		P	12:10:03.118		289.3		4.70		TAS				m_e		
RJOB	90.63		P	12:10:17.737		289.3		4.70		TAS		3.0	0.69	m_e	mb	4.7
ROTZ	89.56		P	12:10:11.997		289.3		4.70		TAS				m_e		
STU	88.02		P	12:10:05.149		289.3		4.70		TAS				m_e		
TANN	89.49		P	12:10:12.266		289.3		4.70		TAS		4.3	0.96	m_e	mb	4.7
TNS	87.12		P	12:10:00.836		289.3		4.70		TAS		30.5	1.03	m_e	mb	5.4
UBBA	87.88		P	12:10:04.834		289.3		4.70		TAS				m_e		
UBR	88.94		P	12:10:09.445		289.3		4.70		TAS		11.1	1.03	m_e	mb	5.0
WET	90.19		P	12:10:15.306		289.3		4.70		TAS		5.4	0.84	m_e	mb	4.8
WLF	85.85		P	12:09:55.596		289.3		4.70		TAS		19.0	0.87	m_e	mb	5.2

Event 90122001 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/22	03:19:17.71			20.9200	123.5500				16.6		0.4	20		84.99	90.56	m i ke	BGR
OrigID																	

90122007

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90122007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	85.65		P	03:31:53.018	0.3	59.9		4.81		TAS		6.0	0.81	m_e	mb	4.8
BSEG	86.09		P	03:31:55.296	0.7	59.9		4.81		TAS		7.8	0.94	m_e	mb	4.8
BUG	88.98		P	03:32:08.981		59.9		4.81		TAS		7.6	0.81	m_e	mb	5.0
CLL	85.97		P	03:31:54.049	0.1	59.9		4.81		TAS		16.4	0.82	m_e	mb	5.2
CLZ	87.13		P	03:31:59.823	0.1	59.9		4.81		TAS		15.6	0.79	m_e	mb	5.2
FLT1	86.42		P	03:31:56.266	-0.5	59.9		4.81		TAS		15.0	0.76	m_e	mb	5.2
GEC2	86.74		P	03:31:58.199		59.9		4.81		TAS		15.7	0.81	m_e	mb	5.2
GRA1	87.75		P	03:32:03.070		59.9		4.81		TAS		5.9	0.76	m_e	mb	5.0
GTTG	87.50		P	03:32:01.905	0.1	59.9		4.81		TAS		15.0	0.76	m_e	mb	5.2
IBBN	88.26		P	03:32:05.210	0.1	59.9		4.81		TAS		28.4	0.80	m_e	mb	5.7
KAST	88.50		P	03:32:06.250		59.9		4.81		TAS		5.2	0.89	m_e	mb	4.8
MANZ	87.11		P	03:32:00.005		59.9		4.81		TAS		1.7	0.91	m_e	mb	4.2
MANZ	87.11		pP	03:32:04.769						T__				m_e		
MOX	87.05		P	03:31:59.699	0.3	59.9		4.81		TAS		6.5	0.79	m_e	mb	4.8
NRDL	86.93		P	03:31:59.133	0.1	59.9		4.81		TAS		6.9	0.77	m_e	mb	4.8
ROTZ	87.16		P	03:32:00.434		59.9		4.81		TAS		2.3	0.82	m_e	mb	4.3
RUE	84.99		P	03:31:49.686	0.7	59.9		4.81		TAS		14.4	0.74	m_e	mb	5.3
TANN	86.70		P	03:31:57.856	-0.6	59.9		4.81		TAS		5.6	0.83	m_e	mb	4.7
UBR	89.41		P	03:32:10.678		59.9		4.81		TAS		6.2	0.71	m_e	mb	4.9
UBR	89.41		pP	03:32:15.521						T__				m_e		
WET	87.08		P	03:31:59.760		59.9		4.81		TAS		2.8	0.80	m_e	mb	4.4
WLF	90.56		P	03:32:16.789		59.9		4.81		TAS		11.3	0.82	m_e	mb	5.2
WLF	90.56		pP	03:32:21.754						T__				m_e		

Event 90122002 Bristol Bay, Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/22	04:43:06.08			58.3500	-158.4100				33.0			25		67.70	73.91	m i ke	BGR
90122008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90122008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	73.12		P	04:54:33.216		353.8		6.05		TAS		7.8	0.75	m_e	mb	4.9
BRG	70.96		P	04:54:20.339	0.4	353.8		6.05		TAS		11.1	0.93	m_e	mb	5.0
BSEG	67.70		P	04:54:00.482	0.1	353.8		6.05		TAS		11.9	0.97	m_e	mb	5.1
BUG	69.95		P	04:54:14.042	0.1	353.8		6.05		TAS		17.5	0.87	m_e	mb	5.2
CLL	70.48		P	04:54:17.149	0.3	353.8		6.05		TAS		10.5	1.01	m_e	mb	4.9
CLZ	69.79		P	04:54:13.221		353.8		6.05		TAS		15.6	0.92	m_e	mb	5.1

FLT1	69.36	P	04:54:10.275	0.3	353.8	6.05	TAS	9.1	0.87	m_e	mb	5.0
FUR	73.51	P	04:54:35.430		353.8	6.05	TAS	18.7	0.71	m_e	mb	5.2
GEC2	72.97	P	04:54:32.578		353.8	6.05	TAS	8.6	0.77	m_e	mb	5.0
GRA1	71.99	P	04:54:26.706		353.8	6.05	TAS	13.0	0.73	m_e	mb	5.2
GTTG	70.05	P	04:54:14.758		353.8	6.05	TAS	21.9	0.92	m_e	mb	5.3
IBBN	69.13	P	04:54:09.167		353.8	6.05	TAS	13.3	0.82	m_e	mb	5.2
KAST	70.28	P	04:54:16.329	-0.2	353.8	6.05	TAS	10.2	0.86	m_e	mb	5.0
MANZ	71.75	P	04:54:24.937	-0.2	353.8	6.05	TAS	1.2	0.90	m_e	mb	4.0
MOX	71.06	P	04:54:20.622	0.5	353.8	6.05	TAS	14.3	0.75	m_e	mb	5.2
NEUB	70.52	P	04:54:17.825	0.1	353.8	6.05	TAS	20.2	0.81	m_e	mb	5.3
NRDL	69.12	P	04:54:08.841		353.8	6.05	TAS	12.2	0.87	m_e	mb	5.2
ROTZ	71.97	P	04:54:26.565	-0.0	353.8	6.05	TAS	2.4	0.84	m_e	mb	4.3
RUE	69.35	P	04:54:10.555		353.8	6.05	TAS	15.1	0.80	m_e	mb	5.3
STU	72.76	P	04:54:31.305		353.8	6.05	TAS	29.4	0.81	m_e	mb	5.5
TANN	71.34	P	04:54:22.744	0.0	353.8	6.05	TAS	3.8	0.78	m_e	mb	4.6
TNS	71.25	P	04:54:21.789	0.2	353.8	6.05	TAS	10.0	0.72	m_e	mb	5.0
UBR	73.91	P	04:54:37.963		353.8	6.05	TAS	10.6	0.82	m_e	mb	4.9
WET	72.63	P	04:54:30.922		353.8	6.05	TAS	5.0	0.93	m_e	mb	4.6
WLF	71.60	P	04:54:24.585	0.2	353.8	6.05	TAS	8.7	0.80	m_e	mb	4.9

Event 90122003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/22	13:20:31.30			-15.8700	-173.0720				33.0					146.09	146.09	m i ke	BGR
OrigID 90122009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.09		PKPbc	13:40:07.159		5.6		2.77		TAS				m_e	

Event 90122004 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/22	19:01:44.40			-43.0870	42.2100				10.0				26	94.72	100.44	m i ke	emsc
OrigID 90122040																	

Magnitude Err Nsta Author OrigID

mb	6.5		BGR	90122010
MBB	6.9		BGR	90122010
Ms	6.5		BGR	90122010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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BFO	95.80	P	19:15:10.316		155.8	4.80	TAS	449.3	2.44	m_e	MBB	6.9
BRG	96.76	P	19:15:14.824	0.9	155.8	4.80	TAS	337.0	2.38	m_e	MBB	7.0
BSEG	100.44	P	19:15:32.197	0.3	155.8	4.80	TAS	237.7	2.38	m_e	mb	6.4
BUG	98.91	P	19:15:25.689	0.3	155.8	4.80	TAS			m_e		
CLL	97.38	P	19:15:17.659	-0.2	155.8	4.80	TAS	448.1	2.40	m_e	mb	6.7
CLZ	98.49	P	19:15:23.636	0.1	155.8	4.80	TAS	120.3	2.10	m_e	mb	6.3
FUR	94.87	P	19:15:06.011		155.8	4.80	TAS	1154.1	2.25	m_e	MBB	7.1
GEC2	94.92	P	19:15:06.164		155.8	4.80	TAS	202.5	2.17	m_e	MBB	6.8
GOR1	99.33	P	19:15:26.602	0.3	155.8	4.80	TAS	505.0	2.78	m_e	mb	6.8
GRA1	96.30	P	19:15:12.775		155.8	4.80	TAS	562.4	2.19	m_e	MBB	7.0
GRA1	96.30	L	20:00:41.769				T__	17230.4	21.90	a_e	Ms	6.5
GTTG	98.32	P	19:15:22.816	0.2	155.8	4.80	TAS	276.7	2.40	m_e	mb	6.6
KAST	98.40	P	19:15:23.258		155.8	4.80	TAS	61.0	1.68	m_e	mb	6.1
MANZ	96.36	P	19:15:12.673	-0.3	155.8	4.80	TAS	65.7	2.37	m_e	MBB	6.2
MOX	97.09	P	19:15:16.669	-0.8	155.8	4.80	TAS	334.0	2.34	m_e	MBB	6.9
MOX	97.09	L	20:01:09.729				T__	15309.7	21.80	a_e	Ms	6.5
NEUB	97.56	P	19:15:18.777		155.8	4.80	TAS	344.1	2.45	m_e	mb	6.7
NRDL	99.16	P	19:15:26.072	0.3	155.8	4.80	TAS	473.7	3.20	m_e	mb	6.7
PLN	96.81	P	19:15:15.337	0.2	155.8	4.80	TAS	128.4	2.21	m_e	mb	6.2
RETH	99.56	P	19:15:27.713		155.8	4.80	TAS	178.6	2.06	m_e	mb	6.3
ROTZ	96.13	P	19:15:11.955		155.8	4.80	TAS	96.3	2.27	m_e	MBB	6.4
STU	95.97	P	19:15:11.648		155.8	4.80	TAS	971.1	2.42	m_e	MBB	7.3
TANN	96.67	P	19:15:14.210	-0.4	155.8	4.80	TAS	407.1	2.32	m_e	MBB	7.0
TNS	97.49	P	19:15:18.591		155.8	4.80	TAS	223.5	2.32	m_e	mb	6.4
UBBA	97.64	P	19:15:18.714		155.8	4.80	TAS	155.0	2.08	m_e	mb	6.4
UBR	94.72	P	19:15:05.193		155.8	4.80	TAS	745.2	2.13	m_e	MBB	7.1
WET	95.39	P	19:15:08.062		155.8	4.80	TAS	407.1	2.35	m_e	MBB	6.8
WLF	97.61	P	19:15:18.907		155.8	4.80	TAS	209.4	2.21	m_e	mb	6.5

Event 90122005 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/22	20:11:54.92			36.1270	28.7260				33.0			20		16.82	21.95	m i ke	BGR
90122011																	

Magnitude Err Nsta Author OrigID  
 mb 4.3 BGR 90122011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	19.34		P	20:16:17.028		130.3		10.98		TAS		11.7	0.80	m_e	mb	4.2
BRG	18.18		P	20:16:04.566	-0.1	130.3		10.98		TAS		9.5	0.88	m_e	mb	3.9
BSEG	21.94		P	20:16:44.953	0.1	130.3		10.98		TAS		9.7	0.77	m_e	mb	4.3
CLL	18.90		P	20:16:13.356	1.0	130.3		10.98		TAS		9.0	0.74	m_e	mb	4.1
CLZ	20.43		P	20:16:29.251	-0.6	130.3		10.98		TAS		28.0	0.94	m_e	mb	4.5
FLT1	20.39		P	20:16:28.210	-0.6	130.3		10.98		TAS		14.3	0.97	m_e	mb	4.2
FUR	17.62		P	20:15:59.032		130.3		10.98		TAS		26.1	0.89	m_e	mb	4.4

GEC2	16.82	P	20:15:49.849	0.1	130.3	10.98	TAS	18.3	0.96	m_e	mb	4.2
GRA1	18.60	P	20:16:09.644	0.5	130.3	10.98	TAS	21.7	0.81	m_e	mb	4.4
GTTG	20.42	P	20:16:29.945	-0.0	130.3	10.98	TAS	60.7	0.92	m_e	mb	4.8
IBBN	21.95	P	20:16:46.550	-0.4	130.3	10.98	TAS	14.6	0.80	m_e	mb	4.5
MANZ	18.36	P	20:16:07.430	-0.6	130.3	10.98	TAS	3.2	0.83	m_e	mb	3.5
MOX	19.04	P	20:16:15.457	-0.0	130.3	10.98	TAS			m_e		
NEUB	19.35	P	20:16:18.938	0.6	130.3	10.98	TAS	42.9	1.01	m_e	mb	4.6
NRDL	21.00	P	20:16:35.679	-0.1	130.3	10.98	TAS	15.0	1.06	m_e	mb	4.2
ROTZ	18.17	P	20:16:05.220	-0.7	130.3	10.98	TAS	3.0	0.82	m_e	mb	3.5
STU	19.10	P	20:16:15.474	0.1	130.3	10.98	TAS	81.2	0.88	m_e	mb	5.0
TANN	18.49	P	20:16:08.603	-0.1	130.3	10.98	TAS	28.4	1.04	m_e	mb	4.3
UBR	17.98	P	20:16:02.212		130.3	10.98	TAS	21.2	0.83	m_e	mb	4.3
WET	17.42	P	20:15:56.627	0.2	130.3	10.98	TAS	18.3	0.80	m_e	mb	4.3

Event 90123005 Central Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/23	05:41:55.22			62.9860	-151.2100				33.0			16		62.52	68.69	m i ke	BGR
	90123011																

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90123011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	67.85	P		05:52:48.532		351.4		6.40		TAS		2.8	0.85	m_e	mb	4.5
BRG	65.88	P		05:52:36.183	-0.1	351.4		6.40		TAS		7.1	0.74	m_e	mb	5.0
BSEG	62.52	P		05:52:14.406	0.2	351.4		6.40		TAS		6.3	0.89	m_e	mb	4.8
BUG	64.66	P		05:52:27.972	0.0	351.4		6.40		TAS		7.9	0.75	m_e	mb	5.0
CLL	65.37	P		05:52:32.522	-0.1	351.4		6.40		TAS		5.6	0.75	m_e	mb	4.9
CLZ	64.60	P		05:52:27.725	-0.2	351.4		6.40		TAS		12.3	0.74	m_e	mb	5.2
FLT1	64.20	P		05:52:24.893	0.1	351.4		6.40		TAS		5.7	0.84	m_e	mb	4.8
FUR	68.33	P		05:52:51.354		351.4		6.40		TAS		14.2	0.84	m_e	mb	5.2
GEC2	67.88	P		05:52:48.627		351.4		6.40		TAS		3.9	0.73	m_e	mb	4.7
GTTG	64.85	P		05:52:29.160	0.0	351.4		6.40		TAS		15.8	0.94	m_e	mb	5.2
IBBN	63.86	P		05:52:23.152	-0.6	351.4		6.40		TAS		8.7	0.64	m_e	mb	5.1
MOX	65.90	P		05:52:36.059	-0.2	351.4		6.40		TAS		12.3	0.69	m_e	mb	5.2
NEUB	65.37	P		05:52:32.646	0.4	351.4		6.40		TAS		13.8	0.91	m_e	mb	5.2
NRDL	63.93	P		05:52:23.524	0.0	351.4		6.40		TAS		5.6	0.86	m_e	mb	4.8
ROTZ	66.83	P		05:52:42.016	0.1	351.4		6.40		TAS		1.2	0.79	m_e	mb	4.2
RUE	64.28	P		05:52:25.642	0.0	351.4		6.40		TAS		18.6	0.71	m_e	mb	5.4
TANN	66.21	P		05:52:38.072	0.0	351.4		6.40		TAS		4.6	0.87	m_e	mb	4.7
UBBA	65.57	P		05:52:33.775	0.0	351.4		6.40		TAS		2.9	0.71	m_e	mb	4.6
UBR	68.69	P		05:52:53.906		351.4		6.40		TAS		9.4	0.85	m_e	mb	5.0
WET	67.51	P		05:52:46.608	-0.2	351.4		6.40		TAS		3.5	0.79	m_e	mb	4.7

Event 90123007 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/23	11:33:32.89			-23.7630	178.9950				33.0				8	149.98	151.89	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	150.56		PKPbc	11:53:21.467	0.2	24.7		2.34		TAS					m_e
CLL	150.45		PKPbc	11:53:21.196	0.1	24.7		2.34		TAS					m_e
CLZ	150.63		PKPbc	11:53:21.839	0.2	24.7		2.34		TAS					m_e
FLT1	149.98		PKPbc	11:53:19.774	-0.4	24.7		2.34		TAS					m_e
IBBN	150.72		PKPbc	11:53:22.141	0.1	24.7		2.34		TAS					m_e
MANZ	151.89		PKPbc	11:53:24.399	0.1	24.7		2.34		TAS					m_e
NRDL	150.08		PKPbc	11:53:20.363	0.1	24.7		2.34		TAS					m_e
PLN	151.42		PKPbc	11:53:23.309	-0.3	24.7		2.34		TAS					m_e

Event 90123008 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/23	14:48:49.38			9.8850	-36.7210				10.0					56.06	56.06	m i ke	BGR

Magnitude Err Nsta Author OrigID  
mb 4.7 BGR 90123014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	56.06		P	14:58:25.712		239.3		6.95		TAS		6.4	0.89	m_e mb	4.7

Event 90124001 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/24	00:52:33.13			-18.5280	-171.7300				33.0				16	146.19	150.89	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
KAST	147.40		PKPbc	01:12:13.024	-0.6	5.4		2.70		TAS					m_e
GRA1	148.82		PKPbc	01:12:16.830	0.2	5.4		2.70		TAS					m_e

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GEC2	149.44	PKPbc	01:12:18.266	-0.2	5.4	2.70	TAS	m_e
FUR	150.34	PKPbc	01:12:20.021	-0.8	5.4	2.70	TAS	m_e
FLT1	146.19	PKPbc	01:12:09.652	0.1	5.4	2.70	TAS	m_e
CLZ	146.72	PKPbc	01:12:11.153	0.1	5.4	2.70	TAS	m_e
CLL	147.08	PKPbc	01:12:11.805	-0.2	5.4	2.70	TAS	m_e
BRG	147.41	PKPbc	01:12:12.961	0.3	5.4	2.70	TAS	m_e
BFO	150.27	PKPbc	01:12:20.200	-0.8	5.4	2.70	TAS	m_e
MANZ	148.47	PKPbc	01:12:15.721	0.0	5.4	2.70	TAS	m_e
MOX	147.85	PKPbc	01:12:13.959	-0.1	5.4	2.70	TAS	m_e
ROTZ	148.68	PKPbc	01:12:16.243	-0.1	5.4	2.70	TAS	m_e
TANN	148.01	PKPbc	01:12:14.611	0.1	5.4	2.70	TAS	m_e
TNS	148.38	PKPbc	01:12:15.525	-0.1	5.4	2.70	TAS	m_e
UBR	150.89	PKPbc	01:12:21.398		5.4	2.70	TAS	m_e
WET	149.23	PKPbc	01:12:17.483	-0.3	5.4	2.70	TAS	m_e
WLF	148.89	PKPbc	01:12:17.744	0.5	5.4	2.70	TAS	m_e

Event 90124002 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/24	08:34:54.60			19.2140	121.2230				48.0			21		85.09	90.66	m i ke	EMSC
	90124038																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	85.69		P	08:47:29.718		61.6		4.17		TAS				m_e	
BSEG	86.31		P	08:47:31.633	0.9	61.6		4.17		TAS				m_e	
BUG	89.14		P	08:47:43.664	-1.2	61.6		4.17		TAS				m_e	
CLL	86.03		P	08:47:30.998		61.6		4.17		TAS				m_e	
CLZ	87.26		P	08:47:35.855	-1.2	61.6		4.17		TAS				m_e	
FLT1	86.56		P	08:47:32.926		61.6		4.17		TAS				m_e	
GEC2	86.70		P	08:47:34.150		61.6		4.17		TAS				m_e	
GRA1	87.77		P	08:47:38.588		61.6		4.17		TAS				m_e	
GTTG	87.62		P	08:47:37.581	-1.2	61.6		4.17		TAS				m_e	
IBBN	88.44		P	08:47:40.483	-1.2	61.6		4.17		TAS				m_e	
KAST	88.64		P	08:47:41.744		61.6		4.17		TAS				m_e	
MANZ	87.13		P	08:47:35.923		61.6		4.17		TAS				m_e	
MOX	87.11		P	08:47:35.486	-1.2	61.6		4.17		TAS				m_e	
NRDL	87.09		P	08:47:34.829	-1.2	61.6		4.17		TAS				m_e	
ROTZ	87.17		P	08:47:36.400		61.6		4.17		TAS				m_e	
RUE	85.09		P	08:47:27.055		61.6		4.17		TAS				m_e	
TANN	86.73		P	08:47:33.863		61.6		4.17		TAS				m_e	
TNS	89.10		P	08:47:44.244	-1.2	61.6		4.17		TAS				m_e	
UBR	89.36		P	08:47:45.478		61.6		4.17		TAS				m_e	
WET	87.05		P	08:47:35.700		61.6		4.17		TAS				m_e	
WLF	90.66		P	08:47:50.579	-1.2	61.6		4.17		TAS				m_e	



Event 90124004 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/24	14:30:28.04			34.1300	29.5200				10.0			27		18.83	23.99	m i ke	BGR
OrigID 90124010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90124010
Ms	4.1		BGR	90124010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	21.24		P	14:35:11.743	1.6	133.8		10.65		TAS		143.4	0.83	m_e mb	5.3
BRG	20.22		P	14:35:01.372	0.6	133.8		10.65		TAS		177.1	0.81	m_e mb	5.3
BSEG	23.99		P	14:35:40.693	0.1	133.8		10.65		TAS		133.7	0.80	m_e mb	5.5
BUG	23.64		P	14:35:36.207	-1.3	133.8		10.65		TAS				m_e	
CLL	20.94		P	14:35:08.732	0.2	133.8		10.65		TAS		199.9	0.74	m_e mb	5.5
CLZ	22.46		P	14:35:24.196	-0.8	133.8		10.65		TAS		71.7	0.83	m_e mb	5.1
FLT1	22.43		P	14:35:23.533	-0.9	133.8		10.65		TAS		126.7	0.95	m_e mb	5.3
FUR	19.56		P	14:34:53.382	-0.1	133.8		10.65		TAS		278.8	0.81	m_e mb	5.5
GEC2	18.83		P	14:34:45.028	-1.4	133.8		10.65		TAS		72.4	1.05	m_e mb	4.8
GRA1	20.58		P	14:35:04.917	-0.2	133.8		10.65		TAS		152.0	0.82	m_e mb	5.4
GRA1	20.58		L	14:39:03.941						T__		712.9	21.10	a_e Ms	4.0
GTTG	22.43		P	14:35:24.243	-0.6	133.8		10.65		TAS		102.8	0.94	m_e mb	5.2
IBBN	23.96		P	14:35:39.963	-1.1	133.8		10.65		TAS				m_e	
KAST	22.93		P	14:35:29.040	-1.0	133.8		10.65		TAS				m_e	
MANZ	20.37		P	14:35:02.479	-0.4	133.8		10.65		TAS		24.4	0.98	m_e mb	4.4
MOX	21.06		P	14:35:10.404	0.2	133.8		10.65		TAS		232.3	1.17	m_e mb	5.4
MOX	21.06		L	14:43:30.721						T__		900.3	20.60	a_e Ms	4.1
NEUB	21.38		P	14:35:13.807	0.3	133.8		10.65		TAS		203.8	0.93	m_e mb	5.4
NRDL	23.03		P	14:35:30.261	-0.8	133.8		10.65		TAS		74.6	0.90	m_e mb	5.2
RGN	23.36		P	14:35:33.938	2.3	133.8		10.65		TAS		140.4	0.80	m_e mb	5.5
ROTZ	20.17		P	14:34:59.919	-0.8	133.8		10.65		TAS		24.1	0.91	m_e mb	4.4
RUE	21.54		P	14:35:15.567	1.8	133.8		10.65		TAS		270.2	0.84	m_e mb	5.7
STU	21.03		P	14:35:09.720	1.0	133.8		10.65		TAS		239.4	0.81	m_e mb	5.6
TANN	20.51		P	14:35:04.145	-0.2	133.8		10.65		TAS		99.2	0.80	m_e mb	5.2
TNS	22.30		P	14:35:23.330	0.4	133.8		10.65		TAS		190.4	0.76	m_e mb	5.6
UBBA	21.92		P	14:35:18.881	-0.5	133.8		10.65		TAS				m_e	
UBR	19.89		P	14:34:57.256	1.2	133.8		10.65		TAS		166.8	0.74	m_e mb	5.3
WET	19.42		P	14:34:51.669	-1.1	133.8		10.65		TAS		105.0	0.97	m_e mb	5.0
WLF	23.17		P	14:35:32.683	1.7	133.8		10.65		TAS				m_e	

Event 90125005 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/25	19:40:42.60			-19.0300	168.6200				40.0				6	143.46	146.69	m i ke	EMSC
OrigID 90125037																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	146.69		PKPbc	20:00:20.861		38.7		3.11		TAS				m_e	
FUR	145.61		PKPbc	20:00:18.080		38.7		3.11		TAS				m_e	
MANZ	143.86		PKPbc	20:00:12.295		38.7		3.11		TAS				m_e	
PLN	143.46		PKPbc	20:00:10.826		38.7		3.11		TAS				m_e	
ROTZ	143.99		PKPbc	20:00:12.926		38.7		3.11		TAS				m_e	
UBR	146.49		PKPbc	20:00:20.386		38.7		3.11		TAS				m_e	

Event 90125004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/25	19:42:02.40			-15.9450	-173.8830				33.0				13	144.29	147.65	m i ke	BGR
OrigID 90125010																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.65		PKPbc	20:01:42.507		8.8		3.24		TAS				m_e	
CLL	144.29		PKPbc	20:01:31.608	-0.4	8.8		3.24		TAS				m_e	
FUR	147.59		PKPbc	20:01:42.616		8.8		3.24		TAS				m_e	
GEC2	146.61		PKPbc	20:01:39.642		8.8		3.24		TAS				m_e	
GRA1	146.09		PKPbc	20:01:38.264	-0.1	8.8		3.24		TAS				m_e	
MANZ	145.70		PKPbc	20:01:36.740	0.1	8.8		3.24		TAS				m_e	
MOX	145.10		PKPbc	20:01:34.600	0.2	8.8		3.24		TAS				m_e	
PLN	145.20		PKPbc	20:01:34.818	0.1	8.8		3.24		TAS				m_e	
ROTZ	145.91		PKPbc	20:01:37.321	0.0	8.8		3.24		TAS				m_e	
TANN	145.24		PKPbc	20:01:35.090	0.2	8.8		3.24		TAS				m_e	
TNS	145.76		PKPbc	20:01:36.940	0.5	8.8		3.24		TAS				m_e	
WET	146.43		PKPbc	20:01:39.098		8.8		3.24		TAS				m_e	
WLF	146.37		PKPbc	20:01:39.352	-0.5	8.8		3.24		TAS				m_e	

Event 90126001 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/26	03:51:38.40			-7.0500	156.2700				368.0				16	125.31	130.70	m i ke	EMSC
OrigID 90126033																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	130.70		PKPdf	04:10:06.737		46.5		1.89		TAS					m_e	
BRG	126.31		PKPdf	04:09:58.403	-0.1	46.5		1.89		TAS					m_e	
CLL	126.46		PKPdf	04:09:58.501	-0.0	46.5		1.89		TAS					m_e	
CLZ	127.27		PKPdf	04:10:00.648	0.0	46.5		1.89		TAS					m_e	
FLT1	126.54		PKPdf	04:09:58.680	-0.0	46.5		1.89		TAS					m_e	
GEC2	127.75		PKPdf	04:10:01.228		46.5		1.89		TAS					m_e	
KAST	128.57		PKPdf	04:10:02.716	-0.2	46.5		1.89		TAS					m_e	
MANZ	127.77		PKPdf	04:10:00.944		46.5		1.89		TAS					m_e	
NRDL	126.91		PKPdf	04:09:59.601	-0.2	46.5		1.89		TAS					m_e	
PLN	127.41		PKPdf	04:10:00.419	0.1	46.5		1.89		TAS					m_e	
ROTZ	127.87		PKPdf	04:10:01.209		46.5		1.89		TAS					m_e	
RUE	125.31		PKPdf	04:09:56.607	0.4	46.5		1.89		TAS					m_e	
STU	129.99		PKPdf	04:10:05.449		46.5		1.89		TAS					m_e	
TANN	127.31		PKPdf	04:10:00.244	0.1	46.5		1.89		TAS					m_e	
UBR	130.31		PKPdf	04:10:05.729		46.5		1.89		TAS					m_e	
WET	127.96		PKPdf	04:10:01.693		46.5		1.89		TAS					m_e	

Event 90126002 Aru Islands, Indonesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2019/01/26	08:12:48.20			-5.5500	133.8200				10.0				20	112.86	117.21	m i ke	EMSC
90126034																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	117.21		PKPdf	08:31:33.561		67.6		1.88		TAS					m_e	
BRG	112.86		PKPdf	08:31:25.880	0.1	67.6		1.88		TAS					m_e	
CLL	113.26		PKPdf	08:31:26.358	-0.0	67.6		1.88		TAS					m_e	
CLZ	114.56		PKPdf	08:31:29.332	0.1	67.6		1.88		TAS					m_e	
FLT1	113.88		PKPdf	08:31:27.524	-0.1	67.6		1.88		TAS					m_e	
FUR	115.46		PKPdf	08:31:30.723		67.6		1.88		TAS					m_e	
GEC2	113.71		PKPdf	08:31:27.389		67.6		1.88		TAS					m_e	
GRA1	114.92		PKPdf	08:31:29.673		67.6		1.88		TAS					m_e	
KAST	115.94		PKPdf	08:31:31.842	0.0	67.6		1.88		TAS					m_e	
MANZ	114.28		PKPdf	08:31:28.540		67.6		1.88		TAS					m_e	
NEUB	114.02		PKPdf	08:31:28.035	0.2	67.6		1.88		TAS					m_e	
NRDL	114.44		PKPdf	08:31:29.039	0.1	67.6		1.88		TAS					m_e	
PLN	114.06		PKPdf	08:31:28.012	0.2	67.6		1.88		TAS					m_e	
RJOB	114.66		PKPdf	08:31:28.759		67.6		1.88		TAS					m_e	
ROTZ	114.30		PKPdf	08:31:28.418		67.6		1.88		TAS					m_e	
STU	116.50		PKPdf	08:31:32.735		67.6		1.88		TAS					m_e	

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TANN	113.91	PKPdf	08:31:27.888	-0.3	67.6	1.88	TAS	m_e
TNS	116.34	PKPdf	08:31:32.652	-0.1	67.6	1.88	TAS	m_e
UBR	116.37	PKPdf	08:31:32.149		67.6	1.88	TAS	m_e
WET	114.11	PKPdf	08:31:28.247		67.6	1.88	TAS	m_e

Event 90126003 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/26	08:23:04.73			41.2240	143.2290				33.0			21		76.93	82.32	m i ke	BGR
90126009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90126009
Ms	5.3		BGR	90126009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	82.32		P	08:35:21.162		34.6		5.41		TAS		78.1	1.22	m_e mb	5.7
BRG	78.15		P	08:34:58.849	0.4	34.6		5.41		TAS		48.2	1.05	m_e mb	5.6
BSEG	76.95		P	08:34:52.733	-0.4	34.6		5.41		TAS		126.7	1.15	m_e mb	5.9
CLL	78.16		P	08:34:58.518	-0.1	34.6		5.41		TAS		81.6	1.05	m_e mb	5.8
CLZ	78.66		P	08:35:02.154	-0.0	34.6		5.41		TAS		167.1	1.31	m_e mb	5.9
FLT1	77.96		P	08:34:57.444	-0.1	34.6		5.41		TAS		176.8	1.35	m_e mb	6.0
FUR	81.37		P	08:35:16.203		34.6		5.41		TAS		120.3	0.97	m_e mb	5.9
GEC2	79.88		P	08:35:08.104		34.6		5.41		TAS		43.8	1.05	m_e mb	5.3
GRA1	80.13		P	08:35:10.170		34.6		5.41		TAS		214.5	1.35	m_e mb	5.9
GRA1	80.13		L	09:12:59.507						T__		1182.2	21.50	a_e Ms	5.2
GTTG	79.05		P	08:35:03.972	-0.1	34.6		5.41		TAS		103.5	1.23	m_e mb	5.7
MANZ	79.56		P	08:35:06.452		34.6		5.41		TAS		12.0	1.04	m_e mb	4.8
MOX	79.21		P	08:35:04.634	-0.1	34.6		5.41		TAS		55.3	1.18	m_e mb	5.5
MOX	79.21		L	09:30:43.506						T__		1442.1	19.20	a_e Ms	5.3
NEUB	78.70		P	08:35:01.658	0.5	34.6		5.41		TAS		181.6	1.42	m_e mb	5.9
RJOB	81.13		P	08:35:15.294		34.6		5.41		TAS		86.9	1.13	m_e mb	5.7
ROTZ	79.70		P	08:35:07.774		34.6		5.41		TAS		62.2	1.89	m_e mb	5.2
RUE	76.93		P	08:34:52.238	-0.5	34.6		5.41		TAS		175.9	1.24	m_e mb	6.0
STU	81.64		P	08:35:17.691		34.6		5.41		TAS		284.8	1.18	m_e mb	6.3
TANN	79.08		P	08:35:03.890	-0.1	34.6		5.41		TAS		94.2	1.70	m_e mb	5.5
TNS	80.69		P	08:35:12.650	0.2	34.6		5.41		TAS		69.3	1.28	m_e mb	5.5
UBBA	79.64		P	08:35:06.700	-0.2	34.6		5.41		TAS		91.3	1.56	m_e mb	5.5
WET	79.96		P	08:35:09.096		34.6		5.41		TAS		97.8	1.18	m_e mb	5.6

Event 90126005 South of Fiji Islands

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

2019/01/26 19:55:38.27  
90126011

-22.1790 -178.2930

33.0

31

146.51 153.68 m i ke BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	153.37		PKPbc	20:15:32.767	-0.4	18.7		2.42		TAS				m_e	
BRG	149.80		PKPbc	20:15:24.712	0.2	18.7		2.42		TAS				m_e	
BSEG	147.63		PKPbc	20:15:19.173	-0.1	18.7		2.42		TAS				m_e	
BUG	150.47		PKPbc	20:15:26.110	-0.3	18.7		2.42		TAS				m_e	
CLL	149.62		PKPbc	20:15:24.089	0.1	18.7		2.42		TAS				m_e	
CLZ	149.64		PKPbc	20:15:24.475	0.4	18.7		2.42		TAS				m_e	
FLT1	149.02		PKPbc	20:15:22.507	-0.1	18.7		2.42		TAS				m_e	
FUR	152.96		PKPbc	20:15:31.829	-0.3	18.7		2.42		TAS				m_e	
GEC2	151.73		PKPbc	20:15:29.186	-0.1	18.7		2.42		TAS				m_e	
GOR1	148.37		PKPbc	20:15:21.094	0.1	18.7		2.42		TAS				m_e	
GRA1	151.53		PKPbc	20:15:28.965	0.3	18.7		2.42		TAS				m_e	
GTTG	149.99		PKPbc	20:15:25.211	0.2	18.7		2.42		TAS				m_e	
HLG	147.70		PKPbc	20:15:19.477	-0.2	18.7		2.42		TAS				m_e	
IBBN	149.56		PKPbc	20:15:24.064	-0.1	18.7		2.42		TAS				m_e	
KAST	150.56		PKPbc	20:15:26.574	0.1	18.7		2.42		TAS				m_e	
MANZ	151.06		PKPbc	20:15:27.811	0.3	18.7		2.42		TAS				m_e	
MOX	150.55		PKPbc	20:15:26.425	0.2	18.7		2.42		TAS				m_e	
NEUB	149.99		PKPbc	20:15:25.209	0.3	18.7		2.42		TAS				m_e	
NRDL	149.05		PKPbc	20:15:22.723	0.0	18.7		2.42		TAS				m_e	
PLN	150.58		PKPbc	20:15:26.582	0.3	18.7		2.42		TAS				m_e	
RGN	146.51		PKPbc	20:15:15.663	-0.8	18.7		2.42		TAS				m_e	
RJOB	152.99		PKPbc	20:15:31.621	-0.6	18.7		2.42		TAS				m_e	
ROTZ	151.25		PKPbc	20:15:28.174	0.2	18.7		2.42		TAS				m_e	
RUE	148.36		PKPbc	20:15:20.861	-0.1	18.7		2.42		TAS				m_e	
STU	152.80		PKPbc	20:15:31.671	-0.1	18.7		2.42		TAS				m_e	
TANN	150.58		PKPbc	20:15:26.766	0.4	18.7		2.42		TAS				m_e	
TNS	151.51		PKPbc	20:15:28.858	0.1	18.7		2.42		TAS				m_e	
UBBA	150.69		PKPbc	20:15:26.516	-0.1	18.7		2.42		TAS				m_e	
UBR	153.68		PKPbc	20:15:33.253	-0.6	18.7		2.42		TAS				m_e	
WET	151.67		PKPbc	20:15:28.973	-0.0	18.7		2.42		TAS				m_e	
WLF	152.35		PKPbc	20:15:31.342	0.4	18.7		2.42		TAS				m_e	

Event 90126006 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/26	20:03:31.95			-22.7090	-178.1090				33.0				27	148.17	154.23	m i ke	BGR
90126012																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	153.92		PKPbc	20:23:27.858		18.6		2.37		TAS				m_e	
BRG	150.36		PKPbc	20:23:19.711	0.1	18.6		2.37		TAS				m_e	
BSEG	148.17		PKPbc	20:23:14.071	-0.1	18.6		2.37		TAS				m_e	
BUG	151.02		PKPbc	20:23:21.215	-0.1	18.6		2.37		TAS				m_e	
CLL	150.18		PKPbc	20:23:19.147	0.1	18.6		2.37		TAS				m_e	
CLZ	150.19		PKPbc	20:23:19.523	0.2	18.6		2.37		TAS				m_e	
FLT1	149.57		PKPbc	20:23:17.392	-0.0	18.6		2.37		TAS				m_e	
FUR	153.52		PKPbc	20:23:26.855		18.6		2.37		TAS				m_e	
GEC2	152.28		PKPbc	20:23:24.223	-0.3	18.6		2.37		TAS				m_e	
GOR1	148.92		PKPbc	20:23:16.139	-0.3	18.6		2.37		TAS				m_e	
GRA1	152.08		PKPbc	20:23:23.972	-0.2	18.6		2.37		TAS				m_e	
GTTG	150.54		PKPbc	20:23:20.150	0.1	18.6		2.37		TAS				m_e	
KAST	151.11		PKPbc	20:23:21.528	0.2	18.6		2.37		TAS				m_e	
MANZ	151.62		PKPbc	20:23:22.907	-0.1	18.6		2.37		TAS				m_e	
MOX	151.10		PKPbc	20:23:21.466	0.1	18.6		2.37		TAS				m_e	
NEUB	150.55		PKPbc	20:23:20.275	0.3	18.6		2.37		TAS				m_e	
PLN	151.13		PKPbc	20:23:21.654	0.3	18.6		2.37		TAS				m_e	
RJOB	153.54		PKPbc	20:23:26.730		18.6		2.37		TAS				m_e	
ROTZ	151.80		PKPbc	20:23:23.095	0.1	18.6		2.37		TAS				m_e	
RUE	148.91		PKPbc	20:23:16.014	0.1	18.6		2.37		TAS				m_e	
STU	153.35		PKPbc	20:23:26.855		18.6		2.37		TAS				m_e	
TANN	151.13		PKPbc	20:23:21.716	0.3	18.6		2.37		TAS				m_e	
TNS	152.06		PKPbc	20:23:23.847	0.1	18.6		2.37		TAS				m_e	
UBBA	151.24		PKPbc	20:23:21.591	0.3	18.6		2.37		TAS				m_e	
UBR	154.23		PKPbc	20:23:28.484		18.6		2.37		TAS				m_e	
WET	152.22		PKPbc	20:23:24.098	-0.5	18.6		2.37		TAS				m_e	
WLF	152.89		PKPbc	20:23:26.291	-0.2	18.6		2.37		TAS				m_e	

Event 90127001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/27	01:50:05.62			-18.7970	-177.1250				33.0			22		144.46	150.59	m i ke	BGR
90127007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.21		PKPbc	02:09:52.348		15.2		2.74		TAS				m_e	
BRG	146.81		PKPbc	02:09:43.682	0.4	15.2		2.74		TAS				m_e	
BSEG	144.46		PKPbc	02:09:36.390	-0.2	15.2		2.74		TAS				m_e	
CLL	146.58		PKPbc	02:09:42.845	0.4	15.2		2.74		TAS				m_e	
FLT1	145.90		PKPbc	02:09:40.693	0.3	15.2		2.74		TAS				m_e	
FUR	149.92		PKPbc	02:09:51.810		15.2		2.74		TAS				m_e	
GEC2	148.77		PKPbc	02:09:48.882		15.2		2.74		TAS				m_e	
GOR1	145.25		PKPbc	02:09:39.020	-0.4	15.2		2.74		TAS				m_e	

GRA1	148.46	PKPbc	02:09:48.344		15.2		2.74	TAS		m_e
GTTG	146.84	PKPbc	02:09:43.981	0.4	15.2		2.74	TAS		m_e
MANZ	148.02	PKPbc	02:09:47.148	-0.6	15.2		2.74	TAS		m_e
MOX	147.47	PKPbc	02:09:45.355	0.0	15.2		2.74	TAS		m_e
NEUB	146.91	PKPbc	02:09:43.981	0.5	15.2		2.74	TAS		m_e
NRDL	145.90	PKPbc	02:09:40.813	-0.2	15.2		2.74	TAS		m_e
PLN	147.53	PKPbc	02:09:45.774	-0.5	15.2		2.74	TAS		m_e
RJOB	150.02	PKPbc	02:09:51.751		15.2		2.74	TAS		m_e
ROTZ	148.21	PKPbc	02:09:47.626	-0.6	15.2		2.74	TAS		m_e
RUE	145.32	PKPbc	02:09:38.960	0.4	15.2		2.74	TAS		m_e
STU	149.67	PKPbc	02:09:51.332		15.2		2.74	TAS		m_e
TANN	147.54	PKPbc	02:09:45.774	-0.2	15.2		2.74	TAS		m_e
UBR	150.59	PKPbc	02:09:53.245		15.2		2.74	TAS		m_e
WLF	149.09	PKPbc	02:09:50.555		15.2		2.74	TAS		m_e

Event 90127002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/27	10:15:24.31			-21.5840	-177.0020				33.0			27		147.22	153.34	m i ke	BGR
90127008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.97		PKPbc	10:35:18.764		16.0		2.45		TAS					m_e
BRG	149.53		PKPbc	10:35:10.755	0.3	16.0		2.45		TAS					m_e
BSEG	147.22		PKPbc	10:35:04.539	-0.3	16.0		2.45		TAS					m_e
BUG	150.01		PKPbc	10:35:11.891	0.1	16.0		2.45		TAS					m_e
CLL	149.32		PKPbc	10:35:10.097	-0.1	16.0		2.45		TAS					m_e
CLZ	149.26		PKPbc	10:35:10.217	0.0	16.0		2.45		TAS					m_e
FLT1	148.65		PKPbc	10:35:08.245	-0.2	16.0		2.45		TAS					m_e
FUR	152.66		PKPbc	10:35:18.166		16.0		2.45		TAS					m_e
GEC2	151.49		PKPbc	10:35:15.477	-0.4	16.0		2.45		TAS					m_e
GTTG	149.60		PKPbc	10:35:11.054	0.2	16.0		2.45		TAS					m_e
IBBN	149.11		PKPbc	10:35:09.679	0.2	16.0		2.45		TAS					m_e
KAST	150.14		PKPbc	10:35:12.249	0.2	16.0		2.45		TAS					m_e
MANZ	150.75		PKPbc	10:35:13.923	-0.0	16.0		2.45		TAS					m_e
MOX	150.22		PKPbc	10:35:12.488	0.3	16.0		2.45		TAS					m_e
NEUB	149.66		PKPbc	10:35:11.054	0.2	16.0		2.45		TAS					m_e
NRDL	148.66		PKPbc	10:35:08.364	-0.2	16.0		2.45		TAS					m_e
PLN	150.27		PKPbc	10:35:12.608	0.2	16.0		2.45		TAS					m_e
RJOB	152.74		PKPbc	10:35:17.927		16.0		2.45		TAS					m_e
ROTZ	150.94		PKPbc	10:35:14.281	0.1	16.0		2.45		TAS					m_e
RUE	148.06		PKPbc	10:35:06.691	0.3	16.0		2.45		TAS					m_e
STU	152.43		PKPbc	10:35:17.808		16.0		2.45		TAS					m_e
TANN	150.28		PKPbc	10:35:12.727	0.4	16.0		2.45		TAS					m_e

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TNS	151.10	PKPbc	10:35:14.760	0.2	16.0	2.45	TAS	m_e
UBBA	150.31	PKPbc	10:35:12.369	0.2	16.0	2.45	TAS	m_e
UBR	153.34	PKPbc	10:35:19.481		16.0	2.45	TAS	m_e
WET	151.40	PKPbc	10:35:15.357	-0.6	16.0	2.45	TAS	m_e
WLF	151.87	PKPbc	10:35:17.091	-0.3	16.0	2.45	TAS	m_e

Event 90128001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/28	15:59:08.42			-18.6000	-177.5600				33.0			22		144.21	150.33	m i ke	BGR
OrigID 90128007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.96		PKPbc	16:18:55.593	-0.5	15.9		2.77		TAS					m_e
BRG	146.52		PKPbc	16:18:46.631	0.1	15.9		2.77		TAS					m_e
BSEG	144.21		PKPbc	16:18:39.485	-0.7	15.9		2.77		TAS					m_e
BUG	147.01		PKPbc	16:18:48.128	-0.0	15.9		2.77		TAS					m_e
CLL	146.31		PKPbc	16:18:45.788	-0.1	15.9		2.77		TAS					m_e
CLZ	146.25		PKPbc	16:18:45.999	0.2	15.9		2.77		TAS					m_e
FLT1	145.64		PKPbc	16:18:44.095	0.0	15.9		2.77		TAS					m_e
FUR	149.65		PKPbc	16:18:54.855	-0.3	15.9		2.77		TAS					m_e
GOR1	144.99		PKPbc	16:18:42.203	-0.1	15.9		2.77		TAS					m_e
GTTG	146.59		PKPbc	16:18:47.158	0.4	15.9		2.77		TAS					m_e
IBBN	146.10		PKPbc	16:18:45.577	-0.1	15.9		2.77		TAS					m_e
KAST	147.13		PKPbc	16:18:48.318	-0.0	15.9		2.77		TAS					m_e
MANZ	147.74		PKPbc	16:18:50.216	0.3	15.9		2.77		TAS					m_e
MOX	147.20		PKPbc	16:18:48.424	0.1	15.9		2.77		TAS					m_e
NEUB	146.65		PKPbc	16:18:46.842	0.0	15.9		2.77		TAS					m_e
NRDL	145.65		PKPbc	16:18:44.101	-0.1	15.9		2.77		TAS					m_e
PLN	147.25		PKPbc	16:18:48.529	0.0	15.9		2.77		TAS					m_e
ROTZ	147.93		PKPbc	16:18:50.638	0.2	15.9		2.77		TAS					m_e
TANN	147.26		PKPbc	16:18:48.845	0.3	15.9		2.77		TAS					m_e
UBR	150.33		PKPbc	16:18:56.542	-0.5	15.9		2.77		TAS					m_e
WET	148.39		PKPbc	16:18:51.798	0.1	15.9		2.77		TAS					m_e
WLF	148.87		PKPbc	16:18:54.012	0.6	15.9		2.77		TAS					m_e

Event 90129001 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
2019/01/29	03:42:30.54			35.6970	141.4130				33.0			13		81.25	86.47	m i ke	BGR
OrigID 90129007																	



Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90129007
Ms	5.0		BGR	90129007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	86.47		P	03:55:07.857	-0.5	38.6		5.09		TAS		18.4	1.02	m_e	mb	5.2
BRG	82.20		P	03:54:46.495	-0.1	38.6		5.09		TAS		11.3	1.01	m_e	mb	5.0
BSEG	81.25		P	03:54:41.765	0.1	38.6		5.09		TAS		29.5	1.00	m_e	mb	5.3
CLL	82.25		P	03:54:46.490	-0.4	38.6		5.09		TAS		26.3	0.95	m_e	mb	5.3
CLZ	82.88		P	03:54:50.204	0.2	38.6		5.09		TAS		24.0	1.01	m_e	mb	5.4
FLT1	82.16		P	03:54:45.922	-0.5	38.6		5.09		TAS		27.4	1.02	m_e	mb	5.3
GEC2	83.85		P	03:54:54.747	-0.3	38.6		5.09		TAS		14.3	1.09	m_e	mb	5.1
GRA1	84.23		P	03:54:57.574	0.6	38.6		5.09		TAS		40.5	0.98	m_e	mb	5.6
GRA1	84.23		L	04:37:54.818						T__		592.6	19.20	a_e	Ms	5.0
GTTG	83.27		P	03:54:52.058	0.0	38.6		5.09		TAS		17.5	0.92	m_e	mb	5.3
MANZ	83.64		P	03:54:54.212	0.3	38.6		5.09		TAS		2.6	0.95	m_e	mb	4.4
MOX	83.33		L	04:42:23.048						T__		630.9	18.00	a_e	Ms	5.0
RETH	82.55		P	03:54:48.520	0.2	38.6		5.09		TAS		96.1	1.07	m_e	mb	6.0
ROTZ	83.77		P	03:54:54.844	0.2	38.6		5.09		TAS		7.4	1.28	m_e	mb	4.8
WET	83.97		P	03:54:55.802	0.2	38.6		5.09		TAS		13.1	1.06	m_e	mb	5.1

Event 90129002 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/29	12:53:45.34	0.24	0.84	51.4840	16.1610	3.3	2.2	20	1.0			33	170	0.65	5.96	m i k i	BGR
OrigID 90129008																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.7		BGR	90129008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	5.96		Pn	12:55:12.596	-0.1					T__				m_e	ML	5.2
BRG	1.52		Sg	12:54:34.209	0.5					T__				m_e		
BRG	1.52		Pn	12:54:11.734	-1.1					T__				m_e	ML	4.3
BRG	1.52		Pg	12:54:13.516	-0.5					T__				m_e		
BSEG	4.32		Pn	12:54:48.777	-1.7					T__				m_e	ML	4.5
BUG	5.56		Pn	12:55:08.193	1.0					T__				m_e	ML	4.8
CLL	1.99		Sg	12:54:48.165	-0.2					T__				m_e		
CLL	1.99		Pn	12:54:17.834	-1.2					T__				m_e	ML	4.2
CLL	1.99		Pg	12:54:21.869	-0.9					T__				m_e		
CLZ	3.62		Pn	12:54:41.679	0.6					T__				m_e	ML	4.7
DPC	1.14		Sg	12:54:21.969	0.5					T__				m_e		
DPC	1.14		Pg	12:54:06.653	-0.1					T__				m_e	ML	4.8
FBE	1.85		Sg	12:54:44.138	-0.0					T__				m_e		
FBE	1.85		Pn	12:54:16.710	-0.6					T__				m_e	ML	4.2

FLT1	3.17	Sg	12:55:25.349	-0.4	T__	m_e ML	4.5
FUR	4.59	Pn	12:54:55.662	1.5	T__	m_e ML	5.3
GEC2	3.08	Pn	12:54:33.906	0.1	T__	m_e ML	4.7
GEC2	3.08	Pg	12:54:42.883	-0.4	T__	m_e	
GOR1	3.34	Pn	12:54:37.691	0.3	T__	m_e ML	4.7
GRA1	3.62	Sg	12:55:41.048	0.7	T__	m_e	
GRA1	3.62	Pn	12:54:41.472	0.3	T__	m_e ML	5.2
HLG	5.70	Pn	12:55:09.421	0.3	T__	m_e	
IBBN	5.27	Pn	12:55:04.348	1.0	T__	m_e ML	4.8
KAST	4.86	Pn	12:54:57.793	-0.1	T__	m_e ML	4.7
KSP	0.65	Sg	12:54:07.694	1.8	T__	m_e	
KSP	0.65	Pg	12:53:57.839	0.3	T__	m_e ML	4.3
MANZ	2.98	Sg	12:55:21.245	1.3	T__	m_e	
MANZ	2.98	Pn	12:54:32.798	0.3	T__	m_e ML	4.8
MORC	1.92	Sg	12:54:43.110	-3.3	T__	m_e	
MORC	1.92	Pn	12:54:18.206	-0.0	T__	m_e ML	4.7
MOX	2.99	Sg	12:55:20.396	0.2	T__	m_e	
MOX	2.99	Pn	12:54:32.301	-0.3	T__	m_e ML	4.7
MOX	2.99	Pg	12:54:40.981	-0.6	T__	m_e	
NEUB	2.77	Pn	12:54:29.543	-0.1	T__	m_e ML	5.0
NRDL	3.88	Pn	12:54:45.211	0.7	T__	m_e ML	4.7
OJC	2.63	Sg	12:55:09.600	0.8	T__	m_e	
OJC	2.63	Pn	12:54:26.556	-1.2	T__	m_e	
OJC	2.63	Pg	12:54:35.210	0.3	T__	m_e	
OKC	2.08	Sg	12:54:51.099	-0.2	T__	m_e	
OKC	2.08	Pn	12:54:19.959	-0.3	T__	m_e ML	4.2
OKC	2.08	Pg	12:54:25.238	0.8	T__	m_e	
PLN	2.72	Sg	12:55:11.317	-0.3	T__	m_e	
PLN	2.72	Pn	12:54:28.837	-0.1	T__	m_e ML	4.2
PLN	2.72	Pg	12:54:36.816	0.3	T__	m_e	
RETH	4.38	Pn	12:54:52.035	0.8	T__	m_e ML	4.8
ROTZ	3.05	Sg	12:55:20.617	-1.5	T__	m_e	
ROTZ	3.05	Pn	12:54:33.462	0.1	T__	m_e ML	4.6
ROTZ	3.05	Pg	12:54:42.490	-0.2	T__	m_e	
TANN	2.57	Sg	12:55:06.988	-0.0	T__	m_e	
TANN	2.57	Pn	12:54:26.844	-0.1	T__	m_e ML	4.7
TANN	2.57	Pg	12:54:34.436	0.7	T__	m_e	
TNS	5.05	Pn	12:55:00.728	0.4	T__	m_e ML	5.0
UBBA	3.94	Pn	12:54:45.431	0.1	T__	m_e ML	4.8
UBR	5.48	Pn	12:55:07.121	1.0	T__	m_e ML	5.3
WERD	2.65	Sg	12:55:08.032	-1.4	T__	m_e	
WERD	2.65	Pn	12:54:27.813	-0.2	T__	m_e ML	4.6
WET	3.15	Sg	12:55:25.223	-0.1	T__	m_e	
WET	3.15	Pn	12:54:35.593	0.8	T__	m_e ML	4.7

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/29	14:30:31.26			-17.9460	-177.5750				33.0			13		143.56	149.68	m i ke	BGR
OrigID 90129009																	

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	145.89		PKPbc	14:50:07.590	0.2	15.7		2.85		TAS					m_e
BSEG	143.56		PKPbc	14:50:00.180	-0.7	15.7		2.85		TAS					m_e
CLL	145.67		PKPbc	14:50:06.836	0.1	15.7		2.85		TAS					m_e
CLZ	145.60		PKPbc	14:50:07.042	0.4	15.7		2.85		TAS					m_e
FLT1	145.00		PKPbc	14:50:04.571	-0.3	15.7		2.85		TAS					m_e
GEC2	147.85		PKPbc	14:50:13.011	-0.8	15.7		2.85		TAS					m_e
MANZ	147.10		PKPbc	14:50:11.158	0.2	15.7		2.85		TAS					m_e
PLN	146.61		PKPbc	14:50:09.649	0.2	15.7		2.85		TAS					m_e
RETH	144.86		PKPbc	14:50:04.640	0.1	15.7		2.85		TAS					m_e
ROTZ	147.29		PKPbc	14:50:11.570	0.2	15.7		2.85		TAS					m_e
TNS	147.44		PKPbc	14:50:12.188	0.3	15.7		2.85		TAS					m_e
UBR	149.68		PKPbc	14:50:17.402		15.7		2.85		TAS					m_e
WLF	148.22		PKPbc	14:50:14.658	-0.1	15.7		2.85		TAS					m_e

Event 90130001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/30	00:37:22.41			-21.6600	-177.4090				33.0			18		147.24	152.65	m i ke	BGR
OrigID 90130007																	

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	149.51		PKPbc	00:57:08.544	0.1	16.8		2.45		TAS					m_e
BRG	149.51		PKPab	00:57:14.006	-0.0	17.0		4.39		TAS					m_e
BSEG	147.24		PKPbc	00:57:02.691	-0.3	16.8		2.45		TAS					m_e
CLL	149.31		PKPbc	00:57:07.979	0.1	16.8		2.45		TAS					m_e
CLL	149.31		PKPab	00:57:12.837	0.0	17.0		4.39		TAS					m_e
CLZ	149.27		PKPbc	00:57:08.221	0.1	16.8		2.45		TAS					m_e
FLT1	148.66		PKPbc	00:57:06.120	0.0	16.8		2.45		TAS					m_e
FLT1	148.66		PKPab	00:57:10.092	0.0	17.0		4.39		TAS					m_e
FUR	152.65		PKPbc	00:57:15.750		16.8		2.45		TAS					m_e
FUR	152.65		PKPab	00:57:27.600		17.0		4.39		TAS					m_e
GEC2	151.46		PKPbc	00:57:13.123		16.8		2.45		TAS					m_e
GEC2	151.46		PKPab	00:57:22.375		17.0		4.39		TAS					m_e
KAST	150.16		PKPbc	00:57:10.241	0.2	16.8		2.45		TAS					m_e
MANZ	150.75		PKPbc	00:57:11.755	-0.2	16.8		2.45		TAS					m_e
MANZ	150.75		PKPab	00:57:19.189		17.0		4.39		TAS					m_e

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MOX	150.22	PKPbc	00:57:10.322	0.3	16.8	2.45	TAS	m_e
MOX	150.22	PKPab	00:57:16.987		17.0	4.39	TAS	m_e
NEUB	149.66	PKPbc	00:57:08.787	0.1	16.8	2.45	TAS	m_e
NEUB	149.66	PKPab	00:57:14.406	-0.2	17.0	4.39	TAS	m_e
NRDL	148.68	PKPbc	00:57:06.532	-0.1	16.8	2.45	TAS	m_e
NRDL	148.68	PKPab	00:57:10.250	-0.1	17.0	4.39	TAS	m_e
PLN	150.26	PKPbc	00:57:10.403	0.2	16.8	2.45	TAS	m_e
PLN	150.26	PKPab	00:57:17.133		17.0	4.39	TAS	m_e
RETH	148.54	PKPbc	00:57:06.028	0.1	16.8	2.45	TAS	m_e
ROTZ	150.94	PKPbc	00:57:12.116	-0.4	16.8	2.45	TAS	m_e
ROTZ	150.94	PKPab	00:57:20.079		17.0	4.39	TAS	m_e
RUE	148.05	PKPbc	00:57:04.766	-0.2	16.8	2.45	TAS	m_e
TANN	150.27	PKPbc	00:57:10.401	-0.1	16.8	2.45	TAS	m_e
TANN	150.27	PKPab	00:57:17.363		17.0	4.39	TAS	m_e
WET	151.38	PKPbc	00:57:12.916		16.8	2.45	TAS	m_e
WET	151.38	PKPab	00:57:22.229		17.0	4.39	TAS	m_e

Event 90130002 Mexico-Guatemala border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/30	01:46:00.74			17.2150	-91.9200				33.0			11		83.06	85.16	m i ke	BGR
90130008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	83.94		P	01:58:26.577		291.0		5.00		TAS		26.3	1.03	m_e mb	5.4
BSEG	83.26		P	01:58:23.266	0.0	291.0		5.00		TAS		56.5	1.25	m_e mb	5.7
CLZ	84.00		P	01:58:27.683	-0.4	291.0		5.00		TAS		36.3	1.04	m_e mb	5.5
FLT1	84.33		P	01:58:28.439	-0.1	291.0		5.00		TAS		39.1	1.14	m_e mb	5.5
KAST	83.06		P	01:58:22.461		291.0		5.00		TAS		75.3	1.61	m_e mb	5.7
MOX	85.16		P	01:58:32.923	0.3	291.0		5.00		TAS		25.7	1.19	m_e mb	5.3
NEUB	85.05		P	01:58:32.702	0.3	291.0		5.00		TAS		48.0	1.22	m_e mb	5.6
NRDL	83.63		P	01:58:25.320		291.0		5.00		TAS		47.1	1.23	m_e mb	5.6
RETH	83.12		P	01:58:23.151		291.0		5.00		TAS		247.2	1.16	m_e mb	6.3
STU	84.34		P	01:58:29.286		291.0		5.00		TAS		142.9	1.10	m_e mb	6.1
TNS	83.40		P	01:58:24.280		291.0		5.00		TAS		70.7	1.07	m_e mb	5.8

Event 90131002 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/01/31	14:33:01.09			-24.9730	-178.9710				33.0			17		150.25	154.18	m i ke	BGR
90131008																	

Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	152.29		PKPbc	14:52:54.116	-0.3	21.5		2.19		TAS					m_e	
BSEG	150.25		PKPbc	14:52:49.448	-0.2	21.5		2.19		TAS					m_e	
CLL	152.15		PKPbc	14:52:53.683	-0.0	21.5		2.19		TAS					m_e	
CLZ	152.24		PKPbc	14:52:54.283	0.2	21.5		2.19		TAS					m_e	
FLT1	151.60		PKPbc	14:52:52.285	0.4	21.5		2.19		TAS					m_e	
GEC2	154.18		PKPbc	14:52:57.941		21.5		2.19		TAS					m_e	
GTTG	152.60		PKPbc	14:52:54.898	0.0	21.5		2.19		TAS					m_e	
KAST	153.20		PKPbc	14:52:56.105	0.1	21.5		2.19		TAS					m_e	
MANZ	153.59		PKPbc	14:52:56.892		21.5		2.19		TAS					m_e	
MOX	153.10		PKPbc	14:52:55.696	0.1	21.5		2.19		TAS					m_e	
NEUB	152.55		PKPbc	14:52:54.629	0.1	21.5		2.19		TAS					m_e	
NRDL	151.67		PKPbc	14:52:52.630	-0.1	21.5		2.19		TAS					m_e	
PLN	153.11		PKPbc	14:52:55.813	0.1	21.5		2.19		TAS					m_e	
RETH	151.56		PKPbc	14:52:52.463	-0.1	21.5		2.19		TAS					m_e	
RUE	150.88		PKPbc	14:52:50.849	-0.0	21.5		2.19		TAS					m_e	
TANN	153.10		PKPbc	14:52:55.852	0.1	21.5		2.19		TAS					m_e	
UBBA	153.28		PKPbc	14:52:55.916	-0.0	21.5		2.19		TAS					m_e	