

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

(produced by SZO/BGR - HANNOVER)

September 2019

UPDATED 16.July 2021

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

Event 90901001 Central Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/01	00:02:35.46	0.58	1.39	42.3890	13.4620	11.1	11.1	34	10.0				26 306	4.19	8.93	m i ke	BGR
OrigID 90901007																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.5		BGR	90901007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	5.08		Sn	00:04:45.291	0.0					T__				m_e	
ARSA	5.08		Pn	00:03:51.336	0.9					T__				m_e ML	3.9
BALST	6.42		Sn	00:05:16.295	-1.0					T__				m_e	
BALST	6.42		Pn	00:04:08.850	-0.0					T__				m_e ML	4.6
BFO	6.95		Sn	00:05:30.544	0.7					T__				m_e	
BFO	6.95		Pn	00:04:15.757	-0.4					T__				m_e ML	4.3
CLL	8.93		Pn	00:04:42.195	-1.1					T__				m_e	
DAVA	5.52		Sn	00:04:56.649	0.9					T__				m_e	
DAVA	5.52		Pn	00:03:57.921	1.4					T__				m_e ML	4.5
FUR	5.98		Pn	00:04:03.925	1.2					T__				m_e	
GEC2	6.46		Sn	00:05:18.886	0.8					T__				m_e	
GEC2	6.46		Pn	00:04:08.808	-0.6					T__				m_e ML	4.4
GRA1	7.47		Pn	00:04:21.593	-1.6					T__				m_e ML	4.8
KBA	4.69		Sn	00:04:37.230	1.2					T__				m_e	
KBA	4.69		Pn	00:03:45.940	0.9					T__				m_e ML	4.3
MANZ	7.66		Pn	00:04:24.186	-1.6					T__				m_e ML	4.3
MOA	5.49		Pn	00:03:56.952	0.9					T__				m_e ML	4.2
MOX	8.36		Sn	00:06:00.610	-2.6					T__				m_e	
MOX	8.36		Pn	00:04:33.631	-1.8					T__				m_e ML	4.4
NEUB	8.88		Pn	00:04:42.844	0.2					T__				m_e	
NORI	6.64		Sn	00:05:20.844	-1.5					T__				m_e	

NORI	6.64	Pn	00:04:11.238	-0.6	T__	m_e		
OBER	5.50	Pn	00:03:57.686	1.5	T__	m_e		
OBKA	4.19	Pn	00:03:38.763	0.5	T__	m_e ML	4.6	
PLONS	5.49	Sn	00:04:55.546	0.4	T__	m_e		
PLONS	5.49	Pn	00:03:57.963	1.9	T__	m_e ML	4.2	
RJOB	5.37	Sn	00:04:55.015	2.8	T__	m_e		
RJOB	5.37	Pn	00:03:55.114	0.7	T__	m_e ML	4.3	
ROTZ	7.43	Sn	00:05:38.342	-2.9	T__	m_e		
ROTZ	7.43	Pn	00:04:19.988	-2.7	T__	m_e ML	4.2	
SLE	6.42	Pn	00:04:08.585	-0.3	T__	m_e		
SULZ	6.39	Sn	00:05:14.590	-1.8	T__	m_e		
SULZ	6.39	Pn	00:04:08.721	0.3	T__	m_e ML	5.4	
TNS	8.57	Pn	00:04:37.373	-0.9	T__	m_e		
WET	6.77	Sn	00:05:25.177	-0.3	T__	m_e		
WET	6.77	Pn	00:04:12.513	-1.1	T__	m_e ML	4.3	
WILA	5.98	Sn	00:05:06.871	0.2	T__	m_e		
WILA	5.98	Pn	00:04:03.377	0.6	T__	m_e ML	4.6	
WLF	8.87	Pn	00:04:43.034	0.5	T__	m_e		
WTTA	5.04	Sn	00:04:47.896	3.4	T__	m_e		
WTTA	5.04	Pn	00:03:51.091	1.1	T__	m_e ML	4.6	

Event 90901003 Southern East Pacific Rise

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/01	02:34:50.40			-49.9100	-115.1300				10.0			10		144.53	148.04	m i ke	EMSC
OrigID 90901035																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	90901009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	148.04		PKPab	02:54:36.409		251.6		3.69		TAS				m_e	
CLL	147.62		PKPab	02:54:33.895		251.6		3.69		TAS				m_e	
CLL	147.62		PKPbc	02:54:40.514		249.6		2.84		TAS				m_e	
FLT1	146.89		PKPab	02:54:31.067		251.6		3.69		TAS				m_e	
GEC2	147.20		PKPab	02:54:31.905		251.6		3.69		TAS				m_e	
GEC2	147.20		PKPbc	02:54:39.461		249.6		2.84		TAS				m_e	
GOR1	147.12		PKPab	02:54:31.801		251.6		3.69		TAS				m_e	
GRA1	146.00		PKPbc	02:54:36.828		249.6		2.84		TAS				m_e	
GRA1	146.00		L	03:51:40.474						T__		415.0	21.50	a_e Ms	5.2
GTTG	145.89		PKPbc	02:54:36.564		249.6		2.84		TAS				m_e	
IBBN	144.85		PKPbc	02:54:32.875	0.7	249.6		2.84		TAS				m_e	
KAST	144.86		PKPbc	02:54:32.433	0.1	249.6		2.84		TAS				m_e	
MANZ	146.64		PKPab	02:54:30.963		251.6		3.69		TAS				m_e	
MOX	146.57		PKPab	02:54:30.334		251.6		3.69		TAS				m_e	
MOX	146.57		PKPbc	02:54:37.870		249.6		2.84		TAS				m_e	

MOX	146.57	L	03:52:57.632							T__	354.9	20.90	a_e	Ms	5.1
NEUB	146.84	PKPab	02:54:31.382	251.6	3.69					TAS			m_e		
NEUB	146.84	PKPbc	02:54:38.109	249.6	2.84					TAS			m_e		
PLN	146.84	PKPab	02:54:31.486	251.6	3.69					TAS			m_e		
RETH	145.92	PKPbc	02:54:36.536	249.6	2.84					TAS			m_e		
ROTZ	146.62	PKPab	02:54:30.648	251.6	3.69					TAS			m_e		
TANN	147.00	PKPab	02:54:31.172	251.6	3.69					TAS			m_e		
TNS	144.53	PKPbc	02:54:31.860	0.4 249.6	2.84					TAS			m_e		
WET	146.80	PKPab	02:54:31.701	251.6	3.69					TAS			m_e		

Event 90901004 Southeastern Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/01	04:32:30.58			59.8360	-139.8480				21.2	3.0		31		65.07	71.96	m i ke	BGR
	090901010																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90901010
Ms	4.7		BGR	90901010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	71.39		P	04:43:48.053	0.3	344.8		6.29		TAS		18.0	1.16	m_e	mb 5.1
ASSE	65.89		P	04:43:13.531	0.3	344.8		6.29		TAS		23.2	0.93	m_e	mb 5.4
BFO	69.12		P	04:43:34.122	0.7	344.8		6.29		TAS		30.7	1.37	m_e	mb 5.3
BRG	67.62		P	04:43:25.812	1.8	344.8		6.29		TAS		17.2	0.99	m_e	mb 5.2
BUG	65.94		P	04:43:12.660	-0.8	344.8		6.29		TAS		18.7	1.00	m_e	mb 5.3
CLL	67.06		P	04:43:20.458	-0.1	344.8		6.29		TAS		17.9	1.05	m_e	mb 5.2
CLL	67.06		pP	04:43:26.537	0.2	343.7		6.26		TAS				m_e	
DAVA	70.41		P	04:43:41.224	-0.4	344.8		6.29		TAS		39.9	1.83	m_e	mb 5.2
FLT1	65.78		P	04:43:12.215	-0.3	344.8		6.29		TAS		20.1	0.99	m_e	mb 5.3
FUR	69.81		P	04:43:38.535	0.6	344.8		6.29		TAS		18.0	0.89	m_e	mb 5.2
FUR	69.81		pP	04:43:43.685		343.7		6.26		TAS				m_e	
GEC2	69.56		P	04:43:36.155	-0.1	344.8		6.29		TAS		17.4	1.38	m_e	mb 5.0
GRA1	68.33		P	04:43:28.680	0.1	344.8		6.29		TAS		14.0	1.13	m_e	mb 5.1
GRA1	68.33		L	05:14:14.708						T__		463.5	19.90	a_e	Ms 4.7
GTTG	66.32		P	04:43:16.612	0.6	344.8		6.29		TAS		61.1	1.18	m_e	mb 5.7
GTTG	66.32		pP	04:43:22.246	0.1	343.7		6.26		TAS				m_e	
IBBN	65.20		P	04:43:09.061	0.2	344.8		6.29		TAS		74.8	1.75	m_e	mb 5.6
IBBN	65.20		pP	04:43:14.821	-0.1	343.7		6.26		TAS				m_e	
KAST	66.38		P	04:43:16.094	-0.2	344.8		6.29		TAS		11.1	0.75	m_e	mb 5.2
KBA	71.22		P	04:43:47.120	0.4	344.8		6.29		TAS		19.4	0.75	m_e	mb 5.3
MANZ	68.19		P	04:43:27.727	0.0	344.8		6.29		TAS		3.1	1.30	m_e	mb 4.4
MANZ	68.19		pP	04:43:34.223		343.7		6.26		TAS				m_e	
MOA	70.61		P	04:43:42.907	-0.0	344.8		6.29		TAS		6.3	0.95	m_e	mb 4.7
MOX	67.47		P	04:43:22.909	-0.3	344.8		6.29		TAS		21.4	1.02	m_e	mb 5.3
MOX	67.47		pP	04:43:29.341		343.7		6.26		TAS				m_e	

MOX	67.47	L	05:13:48.768							T__	373.8	20.30	a_e	Ms	4.6
NEUB	66.97	P	04:43:20.176	0.2	344.8	6.29				TAS	37.2	1.04	m_e	mb	5.5
OBKA	71.96	P	04:43:50.722	-0.7	344.8	6.29				TAS	24.3	0.85	m_e	mb	5.4
PLN	67.72	P	04:43:24.661	-0.1	344.8	6.29				TAS	5.1	1.02	m_e	mb	4.7
PLN	67.72	pP	04:43:31.042		343.7	6.26				TAS			m_e		
RETH	65.07	P	04:43:07.839	-0.3	344.8	6.29				TAS	10.5	0.92	m_e	mb	5.1
RETH	65.07	pP	04:43:14.248	0.0	343.7	6.26				TAS			m_e		
RJOB	70.49	P	04:43:41.964	-0.2	344.8	6.29				TAS	7.0	0.86	m_e	mb	4.8
RJOB	70.49	pP	04:43:48.037		343.7	6.26				TAS			m_e		
ROTZ	68.42	P	04:43:27.437	-1.7	344.8	6.29				TAS	3.2	1.30	m_e	mb	4.4
RUE	66.04	P	04:43:13.875	-0.2	344.8	6.29				TAS	45.3	1.17	m_e	mb	5.6
TANN	67.84	P	04:43:25.387	-0.1	344.8	6.29				TAS	17.6	1.12	m_e	mb	5.2
TNS	67.32	P	04:43:22.542	0.3	344.8	6.29				TAS	30.1	1.48	m_e	mb	5.3
TNS	67.32	pP	04:43:28.002		343.7	6.26				TAS			m_e		
UBBA	67.03	P	04:43:20.222	-0.2	344.8	6.29				TAS	20.8	1.49	m_e	mb	5.1
WET	69.14	P	04:43:33.555	-0.1	344.8	6.29				TAS	16.8	1.24	m_e	mb	5.1
WLF	67.42	P	04:43:22.944	0.3	344.8	6.29				TAS	15.7	1.05	m_e	mb	5.2
WTTA	70.75	P	04:43:43.998	0.2	344.8	6.29				TAS	37.5	1.17	m_e	mb	5.4
WTTA	70.75	pP	04:43:49.999		343.7	6.26				TAS			m_e		

Event 90901006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/01	15:54:20.75			-21.2700	-177.8500			621.4	10.0			27		145.71	152.55	m i ke	BGR
	90901012																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	148.50		PKPdf	16:12:53.796	0.1	13.9		1.49		TAS				m_e	
ASSE	148.50		PKPbc	16:12:58.204	0.1	15.6		2.43		TAS				m_e	
ASSE	148.50		pPKPbc	16:15:18.370	-0.1	17.2		2.92		TAS				m_e	
BFO	152.55		PKPdf	16:12:59.675		13.9		1.49		TAS				m_e	
BFO	152.55		PKPbc	16:13:07.389		15.6		2.43		TAS				m_e	
BFO	152.55		PKPab	16:13:19.270		16.2		3.96		TAS				m_e	
BFO	152.55		pPKPbc	16:15:30.817		17.2		2.92		TAS				m_e	
BUG	149.62		PKPdf	16:12:54.985	-0.1	13.9		1.49		TAS				m_e	
BUG	149.62		PKPbc	16:13:01.115	-0.0	15.6		2.43		TAS				m_e	
BUG	149.62		pPKPbc	16:15:22.642		17.2		2.92		TAS				m_e	
CLL	148.84		PKPdf	16:12:54.564	0.4	13.9		1.49		TAS				m_e	
CLL	148.84		PKPbc	16:12:59.213	0.5	15.6		2.43		TAS				m_e	
CLL	148.84		pPKPbc	16:15:20.401	0.5	17.2		2.92		TAS				m_e	
FLT1	148.21		PKPdf	16:12:53.204	-0.3	13.9		1.49		TAS				m_e	
FLT1	148.21		PKPbc	16:12:56.752	0.0	15.6		2.43		TAS				m_e	
FUR	152.18		PKPdf	16:12:59.494		13.9		1.49		TAS				m_e	
FUR	152.18		PKPbc	16:13:07.048		15.6		2.43		TAS				m_e	

FUR	152.18	PKPab	16:13:17.943		16.2	3.96	TAS	m_e
GEC2	150.98	PKPdf	16:12:57.818	-0.6	13.9	1.49	TAS	m_e
GEC2	150.98	PKPbc	16:13:04.325	-0.7	15.6	2.43	TAS	m_e
GEC2	150.98	pPKPbc	16:15:26.804		17.2	2.92	TAS	m_e
GOR1	147.56	PKPdf	16:12:52.479	-0.1	13.9	1.49	TAS	m_e
GOR1	147.56	PKPbc	16:12:55.990	-0.1	15.6	2.43	TAS	m_e
GRA1	150.74	PKPdf	16:12:57.555	-0.3	13.9	1.49	TAS	m_e
GRA1	150.74	PKPbc	16:13:03.605	-0.0	15.6	2.43	TAS	m_e
GRA1	150.74	PKPab	16:13:11.846	0.6	16.2	3.96	TAS	m_e
GTTG	149.17	PKPdf	16:12:54.524	-0.6	13.9	1.49	TAS	m_e
GTTG	149.17	PKPbc	16:13:00.134	0.1	15.6	2.43	TAS	m_e
GTTG	149.17	pPKPbc	16:15:21.355	0.0	17.2	2.92	TAS	m_e
HLG	146.85	PKPbc	16:12:54.296	0.1	15.6	2.43	TAS	m_e
IBBN	148.72	PKPdf	16:12:53.920	-0.3	13.9	1.49	TAS	m_e
KAST	149.72	PKPdf	16:12:55.968	-0.0	13.9	1.49	TAS	m_e
KAST	149.72	PKPbc	16:13:01.296	0.2	15.6	2.43	TAS	m_e
KAST	149.72	pPKPbc	16:15:22.749		17.2	2.92	TAS	m_e
MANZ	150.28	PKPdf	16:12:57.060	-0.1	13.9	1.49	TAS	m_e
MANZ	150.28	PKPbc	16:13:02.737	0.0	15.6	2.43	TAS	m_e
MOX	149.75	PKPdf	16:12:56.111	0.3	13.9	1.49	TAS	m_e
MOX	149.75	PKPbc	16:13:01.397	0.4	15.6	2.43	TAS	m_e
NEUB	149.20	PKPdf	16:12:55.336	0.3	13.9	1.49	TAS	m_e
NEUB	149.20	PKPbc	16:13:00.421	0.1	15.6	2.43	TAS	m_e
PLN	149.79	PKPdf	16:12:55.875	0.3	13.9	1.49	TAS	m_e
PLN	149.79	PKPbc	16:13:01.677	0.1	15.6	2.43	TAS	m_e
RETH	148.10	PKPdf	16:12:53.157	-0.1	13.9	1.49	TAS	m_e
RETH	148.10	PKPbc	16:12:56.830	-0.8	15.6	2.43	TAS	m_e
RGN	145.71	PKP	16:12:50.620	-0.7			T__	m_e
RJOB	152.23	PKPdf	16:12:59.064		13.9	1.49	TAS	m_e
RJOB	152.23	PKPab	16:13:18.447		16.2	3.96	TAS	m_e
ROTZ	150.47	pPKPbc	16:15:23.677		17.2	2.92	TAS	m_e
RUE	147.58	PKPdf	16:12:52.566	-0.2	13.9	1.49	TAS	m_e
RUE	147.58	PKPbc	16:12:55.937	-0.4	15.6	2.43	TAS	m_e
STU	151.99	PKPdf	16:12:58.735		13.9	1.49	TAS	m_e
STU	151.99	PKPbc	16:13:06.662		15.6	2.43	TAS	m_e
STU	151.99	PKPab	16:13:16.891		16.2	3.96	TAS	m_e
TANN	149.80	PKPdf	16:12:56.257	0.3	13.9	1.49	TAS	m_e
TANN	149.80	PKPbc	16:13:01.887	-0.1	15.6	2.43	TAS	m_e
TANN	149.80	pPKPbc	16:15:22.648		17.2	2.92	TAS	m_e
TNS	150.68	PKPdf	16:12:57.425	0.6	13.9	1.49	TAS	m_e
TNS	150.68	PKPbc	16:13:03.638	0.4	15.6	2.43	TAS	m_e
UBBA	149.87	PKPdf	16:12:55.822	0.4	13.9	1.49	TAS	m_e
UBBA	149.87	PKPbc	16:13:01.500	0.1	15.6	2.43	TAS	m_e
UBBA	149.87	pPKPbc	16:15:22.881		17.2	2.92	TAS	m_e
WET	150.90	PKPdf	16:12:57.591	0.0	13.9	1.49	TAS	m_e
WET	150.90	PKPbc	16:13:04.268	-0.2	15.6	2.43	TAS	m_e
WET	150.90	PKPab	16:13:12.946		16.2	3.96	TAS	m_e
WLF	151.49	PKPdf	16:12:58.888	-0.2	13.9	1.49	TAS	m_e
WLF	151.49	PKPbc	16:13:06.069		15.6	2.43	TAS	m_e

WLF 151.49 PKPab 16:13:15.544 16.2 3.96 TAS m_e

Event 90901007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/01	17:18:26.64			-20.8220	-178.7910				600.0			25		146.94	151.96	m i ke	BGR
OrigID 90901013																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	147.90		PKPbc	17:37:04.497	0.0	19.0		2.45		TAS					m_e
BFO	151.96		PKPbc	17:37:14.161	-0.6	19.0		2.45		TAS					m_e
BFO	151.96		PKPab	17:37:25.615		14.9		4.30		TAS					m_e
BUG	149.07		PKPbc	17:37:07.358	-0.3	19.0		2.45		TAS					m_e
CLL	148.20		PKPbc	17:37:05.344	0.1	19.0		2.45		TAS					m_e
CLL	148.20		PKPab	17:37:10.032	-0.1	14.9		4.30		TAS					m_e
FLT1	147.60		PKPbc	17:37:03.403	-0.3	19.0		2.45		TAS					m_e
FLT1	147.60		PKPab	17:37:07.245	0.0	14.9		4.30		TAS					m_e
FUR	151.54		PKPbc	17:37:13.252		19.0		2.45		TAS					m_e
FUR	151.54		PKPab	17:37:24.574		14.9		4.30		TAS					m_e
GEC2	150.30		PKPbc	17:37:10.401	-0.3	19.0		2.45		TAS					m_e
GOR1	146.96		PKPbc	17:37:02.226	0.0	19.0		2.45		TAS					m_e
GRA1	150.11		PKPbc	17:37:10.174	-0.1	19.0		2.45		TAS					m_e
GRA1	150.11		PKPab	17:37:18.421		14.9		4.30		TAS					m_e
GTTG	148.58		PKPbc	17:37:06.290	0.1	19.0		2.45		TAS					m_e
IBBN	148.16		PKPbc	17:37:05.357	-0.0	19.0		2.45		TAS					m_e
KAST	149.16		PKPbc	17:37:07.729	0.0	19.0		2.45		TAS					m_e
MANZ	149.64		PKPbc	17:37:09.030	0.4	19.0		2.45		TAS					m_e
MOX	149.13		PKPbc	17:37:07.474	0.2	19.0		2.45		TAS					m_e
MOX	149.13		PKPab	17:37:13.822		14.9		4.30		TAS					m_e
NEUB	148.57		PKPbc	17:37:06.194	0.1	19.0		2.45		TAS					m_e
PLN	149.16		PKPbc	17:37:07.777	0.3	19.0		2.45		TAS					m_e
RETH	147.52		PKPbc	17:37:03.193	-0.5	19.0		2.45		TAS					m_e
RJOB	151.56		PKPbc	17:37:12.904		19.0		2.45		TAS					m_e
RJOB	151.56		PKPab	17:37:25.057		14.9		4.30		TAS					m_e
RUE	146.94		PKPbc	17:37:02.008	-0.1	19.0		2.45		TAS					m_e
STU	151.39		PKPbc	17:37:13.076	-0.1	19.0		2.45		TAS					m_e
TANN	149.16		PKPbc	17:37:07.858	0.3	19.0		2.45		TAS					m_e
TANN	149.16		PKPab	17:37:13.968		14.9		4.30		TAS					m_e
TNS	150.11		PKPbc	17:37:10.310	0.3	19.0		2.45		TAS					m_e
TNS	150.11		PKPab	17:37:17.758		14.9		4.30		TAS					m_e
UBBA	149.27		PKPbc	17:37:07.959	0.0	19.0		2.45		TAS					m_e
WET	150.24		PKPbc	17:37:10.482	0.0	19.0		2.45		TAS					m_e
WET	150.24		PKPab	17:37:19.049		14.9		4.30		TAS					m_e
WLF	150.95		PKPbc	17:37:12.716	0.2	19.0		2.45		TAS					m_e

WLF 150.95 PKPab 17:37:21.370 14.9 4.30 TAS m_e

Event 90902003 Greenland Sea

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
2019/09/02 13:03:17.57 76.5700 1.5600 10.0 29 23.97 30.63 m i ke BGR
90902009

Magnitude Err Nsta Author OrigID
mb 4.7 BGR 90902009
Ms 3.9 BGR 90902009

Table with columns: Sta, Dist, EvAz, Phase, Time, TRes, Azim, AzRes, Slow, SRes, Def, SNR, Amp, Per, Qual, Magnitude. Rows include stations like ARSA, ASSE, BFO, BUG, CLL, DAVA, FLT1, GEC2, GOR1, GRA1, GTTG, IBBN, KAST, KBA, MANZ, MOA, MOX, NEUB, OBKA, PLN, RETH, RJOB, ROTZ, TANN, TNS, UBBA, WET, WLF, WTTA.

Event 90902005 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/02	22:45:51.75			23.8700	-44.4100				10.0			27		46.86	52.16	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	90902011
Ms	5.7		BGR	90902011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	50.22		P	22:54:48.058	0.5	259.4		7.63		TAS		617.2	2.29	a_e	mb	6.1
BFO	47.97		P	22:54:30.408	0.0	259.4		7.63		TAS		49.7	0.86	m_e	mb	5.7
BUG	48.00		P	22:54:30.758	0.0	259.4		7.63		TAS		77.5	1.32	a_e	mb	5.7
CLL	51.48		P	22:54:56.858	-0.5	259.4		7.63		TAS		34.7	0.86	a_e	mb	5.3
FLT1	50.60		P	22:54:50.208	-0.3	259.4		7.63		TAS		241.1	1.89	a_e	mb	5.8
FUR	49.88		P	22:54:45.208	0.4	259.4		7.63		TAS		43.9	0.94	a_e	mb	5.4
GEC2	51.57		P	22:54:57.608	-0.2	259.4		7.63		TAS		357.1	2.29	a_e	mb	5.9
GOR1	50.78		P	22:54:51.808	0.1	259.4		7.63		TAS		615.1	2.32	a_e	mb	6.1
GRA1	50.09		P	22:54:46.458	-0.2	259.4		7.63		TAS		42.9	0.86	a_e	mb	5.4
GRA1	50.09		L	23:11:46.833						T__		6374.4	21.40	a_e	Ms	5.6
GTTG	49.66		P	22:54:43.558	0.1	259.4		7.63		TAS		39.7	1.06	a_e	mb	5.3
IBBN	48.52		P	22:54:34.608	0.1	259.4		7.63		TAS		48.6	0.89	a_e	mb	5.5
KAST	48.64		P	22:54:35.708	0.1	259.4		7.63		TAS		88.0	1.64	a_e	mb	5.5
MANZ	50.70		P	22:54:51.758	0.3	259.4		7.63		TAS		11.5	1.09	a_e	mb	4.7
MOX	50.51		P	22:54:49.708	-0.2	259.4		7.63		TAS		25.1	0.91	a_e	mb	5.1
MOX	50.51		L	23:12:13.585						T__		11822.7	21.70	a_e	Ms	5.9
NEUB	50.70		P	22:54:51.058	-0.4	259.4		7.63		TAS		31.8	0.83	a_e	mb	5.3
PLN	50.82		P	22:54:52.008	-0.3	259.4		7.63		TAS		62.9	2.03	a_e	mb	5.2
RETH	49.58		P	22:54:43.008	0.5	259.4		7.63		TAS		390.1	2.26	a_e	mb	5.9
RJOB	50.83		P	22:54:52.611	0.7	259.4		7.63		TAS		30.6	0.93	m_e	mb	5.2
ROTZ	50.73		P	22:54:51.308	-0.3	259.4		7.63		TAS		93.2	2.67	a_e	mb	5.2
RUE	52.16		P	22:55:01.958	-0.4	259.4		7.63		TAS		68.9	0.86	a_e	mb	5.6
STU	48.61		P	22:54:35.008	-0.4	259.4		7.63		TAS		142.9	0.80	a_e	mb	6.0
TANN	51.00		P	22:54:53.458	-0.2	259.4		7.63		TAS		188.9	1.81	a_e	mb	5.7
TNS	48.44		P	22:54:34.408	0.3	259.4		7.63		TAS		43.2	0.89	a_e	mb	5.6
UBBA	49.53		P	22:54:42.558	0.1	259.4		7.63		TAS		40.2	1.29	a_e	mb	5.2
WET	51.07		P	22:54:53.758	-0.3	259.4		7.63		TAS		28.2	0.88	a_e	mb	5.2
WLF	46.86		P	22:54:21.808	-0.3	259.4		7.63		TAS		82.0	1.26	a_e	mb	5.7

Event 90903002 Romania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/03	11:52:53.10	6.57	0.53	45.4710	26.3200	95.6	30.0	119	118.0			17	341	7.68	12.63	m i ke	BUC

90903047

Magnitude	Err	Nsta	Author	OrigID
ML	4.1		BGR	90903008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	7.68		Sn	11:56:06.118	0.7					T__				m_e	
ARSA	7.68		Pn	11:54:42.968	-0.5					T__				m_e ML	4.2
BFO	12.63		Pn	11:55:47.371						T__				m_e	
CLL	10.60		Pn	11:55:19.470	0.8					T__				m_e	
DAVA	11.50		Pn	11:55:34.290						T__				m_e	
FUR	10.66		Pn	11:55:22.465	0.9					T__				m_e	
GEC2	9.24		Sn	11:56:42.447	0.7					T__				m_e	
GEC2	9.24		Pn	11:55:04.191	-0.3					T__				m_e	
GRA1	11.04		Pn	11:55:27.026	-1.5					T__				m_e	
KBA	9.13		Pn	11:55:03.167	-0.5					T__				m_e	
MANZ	10.58		Pn	11:55:20.811	-1.1					T__				m_e	
MOA	8.63		Sn	11:56:30.063	0.7					T__				m_e	
MOA	8.63		Pn	11:54:56.140	1.4					T__				m_e ML	4.1
MOX	11.11		Pn	11:55:28.819						T__				m_e	
NEUB	11.24		Pn	11:55:29.168						T__				m_e	
PLN	10.73		Pn	11:55:23.691	1.7					T__				m_e	
RJOB	9.58		Pn	11:55:08.350	-1.4					T__				m_e	
TANN	10.53		Pn	11:55:20.109	-0.6					T__				m_e	
WET	9.84		Sn	11:57:11.140	0.7					T__				m_e	
WET	9.84		Pn	11:55:11.203	-0.1					T__				m_e	
WTTA	10.31		Pn	11:55:18.229	0.7					T__				m_e	

Event 90903003 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/03	12:53:29.20			-21.3870	-173.9510				10.0					150.47	151.46	m i ke	NEIC
90903042																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.4		BGR	90903009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	151.46		PKPab	13:13:31.364		10.1		3.89		TAS				m_e	
GRA1	151.46		L	14:18:13.210						T__		58.6	18.20	a_e Ms	4.4
MOX	150.47		L	14:21:39.455						T__		53.5	18.10	a_e Ms	4.4

Event 90903004 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/03	18:42:41.60			39.9390	143.4810				33.0			7		79.37	81.35	m i ke	BGR
OrigID 90903010																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90903010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	79.37		P	18:54:42.554		33.6		3.78		TAS		5.6	0.73	m_e	mb 4.7
GRA1	81.35		P	18:54:53.560		33.6		3.78		TAS		9.7	1.14	m_e	mb 4.7
WET	81.16		P	18:54:52.480		33.6		3.78		TAS		3.2	0.81	m_e	mb 4.4

Event 90904001 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/09/04	01:01:31.86	3.23	301.21	35.0850	28.0360	65.6	46.7	178	10.0				20	343	15.29	20.97	m i ke	BGR
OrigID 90904007																		

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	90904007
Ms	3.8		BGR	90904007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	19.71		P	01:05:59.796	-0.7					T__		17.3	1.26	m_e	mb 4.1
CLL	19.51		P	01:05:57.932	-0.2					T__		14.0	1.27	m_e	mb 4.0
DAVA	18.26		P	01:05:43.034	-0.4					T__		14.8	0.77	m_e	mb 4.2
FUR	18.05		P	01:05:40.009	-0.9					T__		18.7	0.88	m_e	mb 4.2
GEC2	17.36		P	01:05:32.331	0.0					T__		21.7	1.15	m_e	mb 4.2
GRA1	19.10		P	01:05:53.504	0.1					T__		111.4	1.90	m_e	mb 4.8
GRA1	19.10		L	01:15:13.177	-99.9					T__		389.4	18.10	a_e	Ms 3.8
GTTG	20.97		P	01:06:15.331	0.9					T__		16.5	1.13	m_e	mb 4.3
KBA	16.28		P	01:05:19.534	0.8					T__		26.9	0.90	m_e	mb 4.4
MANZ	18.90		P	01:05:50.198	-0.9					T__		3.0	1.10	m_e	mb 3.4
MOX	19.59		P	01:05:58.320	-0.8					T__		41.3	1.69	m_e	mb 4.4
MOX	19.59		L	01:15:33.688	-99.9					T__		404.2	18.30	a_e	Ms 3.8
NEUB	19.93		P	01:06:04.439	1.5					T__		24.7	1.43	m_e	mb 4.2
OBKA	15.29		P	01:05:05.806	-0.1					T__		39.8	1.45	m_e	
PLN	19.24		P	01:05:54.115	-0.9					T__		17.4	1.74	m_e	
RJOB	17.00		P	01:05:29.539	1.6					T__		6.6	0.86	m_e	
ROTZ	18.70		P	01:05:48.096	-0.6					T__		7.3	1.63	m_e	
RUE	20.14		P	01:06:05.137	-0.1					T__		51.2	1.27	m_e	
TANN	19.06		P	01:05:53.271	0.4					T__		7.2	0.98	m_e	
TNS	20.80		P	01:06:13.172	0.6					T__		15.7	0.84	m_e	
WET	17.95		P	01:05:38.846	-0.8					T__		12.0	0.96	m_e	
WTTA	17.29		P	01:05:31.894	0.4					T__		26.4	1.12	m_e	

Event 90904004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/04	09:48:29.19			-18.5210	-176.5570				33.0			26		145.06	150.00	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	90904010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.99		PKPbc	10:08:04.357	-0.0	14.1		2.76		TAS				a_e	
BFO	150.00		PKPbc	10:08:14.957		14.1		2.76		TAS				a_e	
BUG	147.01		PKPbc	10:08:07.057	0.1	14.1		2.76		TAS				a_e	
CLL	146.42		PKPbc	10:08:05.407	0.1	14.1		2.76		TAS				m_e	
FLT1	145.71		PKPbc	10:08:03.057	-0.0	14.1		2.76		TAS				a_e	
FUR	149.75		PKPbc	10:08:14.257		14.1		2.76		TAS				a_e	
GEC2	148.63		PKPbc	10:08:11.557	-0.4	14.1		2.76		TAS				a_e	
GOR1	145.06		PKPbc	10:08:01.557	-0.1	14.1		2.76		TAS				a_e	
GRA1	148.28		PKPbc	10:08:11.432	0.2	14.1		2.76		TAS				m_e	
GRA1	148.28		L	11:19:19.621						T__		645.5	21.60	a_e Ms	5.4
GTTG	146.65		PKPbc	10:08:06.357	-0.3	14.1		2.76		TAS				a_e	
IBBN	146.12		PKPbc	10:08:04.807	0.3	14.1		2.76		TAS				a_e	
KAST	147.15		PKPbc	10:08:07.607	0.2	14.1		2.76		TAS				a_e	
MANZ	147.85		PKPbc	10:08:09.707	0.9	14.1		2.76		TAS				a_e	
MOX	147.29		PKPbc	10:08:08.057	0.2	14.1		2.76		TAS				a_e	
MOX	147.29		L	11:10:43.142						T__		752.2	21.80	a_e Ms	5.4
NEUB	146.74		PKPbc	10:08:06.357	0.2	14.1		2.76		TAS				a_e	
PLN	147.36		PKPbc	10:08:08.157	0.3	14.1		2.76		TAS				a_e	
RETH	145.54		PKPbc	10:08:03.007	0.1	14.1		2.76		TAS				a_e	
RJOB	149.87		PKPbc	10:08:14.407		14.1		2.76		TAS				a_e	
ROTZ	148.04		PKPbc	10:08:10.207	0.3	14.1		2.76		TAS				a_e	
RUE	145.16		PKPbc	10:08:01.357	-0.4	14.1		2.76		TAS				a_e	
STU	149.47		PKPbc	10:08:13.757	-0.5	14.1		2.76		TAS				a_e	
TANN	147.37		PKPbc	10:08:08.307	0.1	14.1		2.76		TAS				a_e	
TNS	148.12		PKPbc	10:08:10.307	-0.1	14.1		2.76		TAS				a_e	
UBBA	147.35		PKPbc	10:08:08.207	0.3	14.1		2.76		TAS				a_e	
WET	148.51		PKPbc	10:08:11.607	-0.1	14.1		2.76		TAS				a_e	
WLF	148.85		PKPbc	10:08:12.757	-0.7	14.1		2.76		TAS				a_e	

Event 90904007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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2019/09/04 19:27:41.11
90904013

-20.5690 -177.5390

600.0

24

146.92 151.90 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	
ASSE	147.86		PKPbc	19:46:18.877	-0.1	16.6		2.45		TAS					m_e	
BFO	151.90		PKPbc	19:46:28.318		16.6		2.45		TAS					m_e	
BUG	148.96		PKPbc	19:46:21.303	-0.1	16.6		2.45		TAS					m_e	
BUG	148.96		PKPab	19:46:27.379	-0.2	16.3		4.19		TAS					m_e	
CLL	148.23		PKPbc	19:46:19.531	0.2	16.6		2.45		TAS					m_e	
FLT1	147.57		PKPbc	19:46:17.566	0.1	16.6		2.45		TAS					m_e	
FLT1	147.57		PKPab	19:46:21.263	-0.0	16.3		4.19		TAS					m_e	
FUR	151.57		PKPbc	19:46:27.597		16.6		2.45		TAS					m_e	
FUR	151.57		PKPab	19:46:38.373		16.3		4.19		TAS					m_e	
GEC2	150.38		PKPbc	19:46:24.657	-0.3	16.6		2.45		TAS					m_e	
GEC2	150.38		PKPab	19:46:33.032		16.3		4.19		TAS					m_e	
GOR1	146.92		PKP	19:46:16.272	0.2					T__					m_e	
GRA1	150.11		PKPbc	19:46:24.646	-0.1	16.6		2.45		TAS					m_e	
GRA1	150.11		PKPab	19:46:32.055		16.3		4.19		TAS					m_e	
GTTG	148.53		PKPbc	19:46:20.450	0.1	16.6		2.45		TAS					m_e	
GTTG	148.53		PKPab	19:46:25.560	-0.2	16.3		4.19		TAS					m_e	
IBBN	148.06		PKPbc	19:46:19.073	-0.3	16.6		2.45		TAS					m_e	
IBBN	148.06		PKPab	19:46:23.857	0.1	16.3		4.19		TAS					m_e	
KAST	149.07		PKPbc	19:46:21.950	0.2	16.6		2.45		TAS					m_e	
KAST	149.07		PKPab	19:46:27.443	-0.3	16.3		4.19		TAS					m_e	
MANZ	149.66		PKPbc	19:46:23.279	-0.3	16.6		2.45		TAS					m_e	
MOX	149.13		PKPbc	19:46:21.936	0.1	16.6		2.45		TAS					m_e	
MOX	149.13		PKPab	19:46:27.742	0.3	16.3		4.19		TAS					m_e	
NEUB	148.57		PKPbc	19:46:20.304	0.2	16.6		2.45		TAS					m_e	
PLN	149.18		PKPbc	19:46:21.961	0.2	16.6		2.45		TAS					m_e	
PLN	149.18		PKPab	19:46:28.001	0.0	16.3		4.19		TAS					m_e	
RETH	147.45		PKPbc	19:46:17.566	-0.0	16.6		2.45		TAS					m_e	
RJOB	151.63		PKPbc	19:46:27.527		16.6		2.45		TAS					m_e	
RJOB	151.63		PKPab	19:46:38.526		16.3		4.19		TAS					m_e	
ROTZ	149.85		PKPbc	19:46:23.641	0.3	16.6		2.45		TAS					m_e	
ROTZ	149.85		PKPab	19:46:30.843		16.3		4.19		TAS					m_e	
RUE	146.96		PKP	19:46:15.992	0.2					T__					m_e	
STU	151.35		PKPbc	19:46:27.281		16.6		2.45		TAS					m_e	
TANN	149.18		PKPbc	19:46:22.064	0.5	16.6		2.45		TAS					m_e	
TANN	149.18		PKPab	19:46:28.100		16.3		4.19		TAS					m_e	
TNS	150.03		PKPbc	19:46:24.318	0.1	16.6		2.45		TAS					m_e	
TNS	150.03		PKPab	19:46:31.527		16.3		4.19		TAS					m_e	
UBBA	149.23		PKPbc	19:46:21.958	0.1	16.6		2.45		TAS					m_e	
UBBA	149.23		PKPab	19:46:28.506		16.3		4.19		TAS					m_e	
WET	150.29		PKPbc	19:46:24.777	-0.5	16.6		2.45		TAS					m_e	
WET	150.29		PKPab	19:46:32.583		16.3		4.19		TAS					m_e	
WLF	150.82		PKPbc	19:46:26.548		16.6		2.45		TAS					m_e	

Event 90905004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	03:23:31.16			47.5000	151.5000				33.0			32		74.06	79.83	m i ke	BGR
OrigID 90905010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	90905010
Ms	4.8		BGR	90905010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	78.12		P	03:35:28.858	0.7	26.3		5.63		TAS		34.2	1.23	m_e mb	5.3
ASSE	75.25		P	03:35:12.260	1.3	26.3		5.63		TAS		33.6	1.16	m_e mb	5.3
BFO	79.33		P	03:35:35.000		26.3		5.63		TAS		45.8	1.16	m_e mb	5.4
BRG	75.43		P	03:35:14.795	-0.1	26.3		5.63		TAS		27.1	1.20	m_e mb	5.2
BUG	76.77		P	03:35:20.685	0.2	26.3		5.63		TAS		60.7	1.27	m_e mb	5.6
CLL	75.32		P	03:35:12.473	-0.3	26.3		5.63		TAS		40.7	0.68	m_e mb	5.6
DAVA	79.83		P	03:35:38.117		26.3		5.63		TAS		49.8	1.22	m_e mb	5.3
FLT1	74.91		P	03:35:09.799	-0.2	26.3		5.63		TAS		42.4	0.93	m_e mb	5.5
FUR	78.64		P	03:35:31.645	0.2	26.3		5.63		TAS		86.7	1.33	m_e mb	5.6
GEC2	77.29		P	03:35:23.965	0.3	26.3		5.63		TAS		18.6	1.03	m_e mb	5.2
GOR1	74.30		P	03:35:07.077	0.3	26.3		5.63		TAS		63.4	1.29	m_e mb	5.5
GRA1	77.28		P	03:35:24.338	-0.0	26.3		5.63		TAS		37.1	0.65	m_e mb	5.7
GRA1	77.28		L	04:16:02.348						T__		518.3	18.30	a_e Ms	4.9
GTTG	75.96		P	03:35:16.658	-0.0	26.3		5.63		TAS		23.2	0.75	m_e mb	5.4
IBBN	75.85		P	03:35:15.689	0.0	26.3		5.63		TAS		69.3	1.17	m_e mb	5.7
KAST	76.69		P	03:35:20.685	-0.1	26.3		5.63		TAS		35.0	1.02	m_e mb	5.4
KBA	78.97		P	03:35:33.642	0.2	26.3		5.63		TAS		45.3	0.63	m_e mb	5.7
MANZ	76.76		P	03:35:20.906	0.4	26.3		5.63		TAS		6.7	1.07	m_e mb	4.7
MOA	78.00		P	03:35:28.075	1.3	26.3		5.63		TAS		18.3	0.81	m_e mb	5.2
MOX	76.31		P	03:35:18.448	0.2	26.3		5.63		TAS		27.4	0.97	m_e mb	5.3
MOX	76.31		L	04:11:49.726						T__		477.7	19.90	a_e Ms	4.8
NEUB	75.78		P	03:35:15.167	0.2	26.3		5.63		TAS		34.9	0.79	m_e mb	5.5
OBKA	79.09		P	03:35:32.731	-0.2	26.3		5.63		TAS		13.4	0.70	m_e mb	5.1
PLN	76.30		P	03:35:18.373	-0.3	26.3		5.63		TAS		15.0	1.24	m_e mb	5.0
RETH	75.05		P	03:35:11.589	-0.4	26.3		5.63		TAS		20.4	0.71	m_e mb	5.3
RJOB	78.56		P	03:35:31.496	-0.2	26.3		5.63		TAS		21.4	0.88	m_e mb	5.2
ROTZ	76.92		P	03:35:22.176	0.3	26.3		5.63		TAS		10.5	1.21	m_e mb	4.8
RUE	74.06		P	03:35:05.549	-0.0	26.3		5.63		TAS		41.5	0.77	m_e mb	5.5
STU	78.69		P	03:35:31.645	-0.4	26.3		5.63		TAS		74.4	0.96	m_e mb	5.7
TANN	76.27		P	03:35:18.299	-0.0	26.3		5.63		TAS		12.4	0.96	m_e mb	5.0
TNS	77.57		P	03:35:25.382	0.4	26.3		5.63		TAS		24.1	0.66	m_e mb	5.5
UBBA	76.61		P	03:35:19.790	-0.2	26.3		5.63		TAS		30.4	1.25	m_e mb	5.3
WET	77.28		P	03:35:24.189	-0.1	26.3		5.63		TAS		39.7	1.04	m_e mb	5.5
WLF	78.68		P	03:35:32.352	-1.3	26.3		5.63		TAS		28.2	1.18	m_e mb	5.2
WTTA	79.33		P	03:35:35.691		26.3		5.63		TAS		52.2	0.59	m_e mb	5.8

Event 90905005 Carlsberg Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	09:12:20.40			-2.8560	67.8620				33.0			17		69.54	74.54	m i ke	BGR

OrigID
90905011

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90905011
Ms	4.6		BGR	90905011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	72.86		P	09:23:47.144		118.4		6.03		TAS		55.6	1.84	m_e mb	5.4
BFO	72.48		P	09:23:45.086	0.0	118.4		6.03		TAS		15.3	1.07	m_e mb	5.1
BUG	74.43		P	09:23:56.849		118.4		6.03		TAS		26.9	1.34	m_e mb	5.1
CLL	71.20		P	09:23:37.158	0.5	118.4		6.03		TAS		18.2	1.00	m_e mb	5.2
FLT1	72.66		P	09:23:45.516		118.4		6.03		TAS		13.8	1.03	m_e mb	5.0
FUR	70.64		P	09:23:33.589	-0.0	118.4		6.03		TAS		61.7	1.17	m_e mb	5.6
GRA1	71.39		P	09:23:38.292	0.1	118.4		6.03		TAS		26.1	0.68	m_e mb	5.5
GRA1	71.39		L	09:58:41.269						T__		340.9	21.30	a_e Ms	4.6
GTTG	72.97		P	09:23:48.076		118.4		6.03		TAS		19.3	0.95	m_e mb	5.2
IBBN	74.54		P	09:23:57.392		118.4		6.03		TAS		17.2	0.88	m_e mb	5.1
KAST	73.68		P	09:23:52.551		118.4		6.03		TAS		23.6	1.57	m_e mb	5.0
MOX	71.63		P	09:23:40.267	0.0	118.4		6.03		TAS		6.2	0.85	m_e mb	4.8
MOX	71.63		L	09:59:12.898						T__		331.8	19.60	a_e Ms	4.6
RETH	73.86		P	09:23:53.264		118.4		6.03		TAS		17.3	1.28	m_e mb	4.9
RJOB	69.54		P	09:23:27.065	-0.2	118.4		6.03		TAS		6.8	0.66	m_e mb	4.9
RUE	71.38		P	09:23:38.235	-0.1	118.4		6.03		TAS		37.9	0.78	m_e mb	5.6
TANN	71.05		P	09:23:36.908	0.2	118.4		6.03		TAS		5.6	0.99	m_e mb	4.7
TNS	73.23		P	09:23:49.595		118.4		6.03		TAS		20.5	1.22	m_e mb	5.1
UBBA	72.62		P	09:23:46.333	-0.0	118.4		6.03		TAS		36.7	1.61	m_e mb	5.3
WLF	74.34		P	09:23:56.007		118.4		6.03		TAS		31.1	1.18	m_e mb	5.2

Event 90905007 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	11:01:29.60			47.1700	155.7300				10.0	0.8		13		76.33	78.96	m i ke	EMSC

OrigID
90905039

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90905013
Ms	5.4		BGR	90905013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	76.65		pP	11:13:27.256	-0.1	26.0		6.14		TAS		15.4	1.06	m_e	
CHRS	77.09		pP	11:13:30.188	-0.1	26.0		6.14		TAS		6.7	0.79	m_e	
CLL	76.80		P	11:13:20.572		25.5		5.89		TAS				m_e	
CLL	76.80		pP	11:13:27.781	0.1	26.0		6.14		TAS		16.7	0.82	m_e	
FLT1	76.33		pP	11:13:25.801	0.1	26.0		6.14		TAS		9.7	0.74	m_e	
GEC2	78.84		P	11:13:32.155		25.5		5.89		TAS		3.7	0.69	m_e	mb 4.5
GEC2	78.84		pP	11:13:40.008		26.0		6.14		TAS				m_e	
GRA1	78.75		pP	11:13:40.223		26.0		6.14		TAS				m_e	
GRA1	78.75		L	12:07:29.005						T__		1896.0	18.50	a_e	Ms 5.5
KAST	78.05		P	11:13:28.675		25.5		5.89		TAS		7.2	1.05	m_e	mb 4.7
LUEB	76.97		pP	11:13:29.798	0.2	26.0		6.14		TAS		15.1	1.06	m_e	
MOX	77.77		pP	11:13:34.182		26.0		6.14		TAS		6.9	0.79	m_e	
MOX	77.77		L	12:06:26.676						T__		1444.2	21.70	a_e	Ms 5.3
POSS	77.33		pP	11:13:31.467		26.0		6.14		TAS		18.6	1.02	m_e	
ROTZ	78.42		P	11:13:30.222		25.5		5.89		TAS		1.5	0.93	m_e	mb 4.1
SPAHL	78.20		pP	11:13:36.897		26.0		6.14		TAS				m_e	
TNS	78.96		P	11:13:33.452		25.5		5.89		TAS		8.6	0.64	m_e	mb 4.9
TNS	78.96		pP	11:13:41.499		26.0		6.14		TAS				m_e	
WET	78.80		P	11:13:32.660		25.5		5.89		TAS		8.3	0.75	m_e	mb 4.8
WET	78.80		pP	11:13:40.294		26.0		6.14		TAS				m_e	
WIMM	77.00		pP	11:13:29.218	0.2	26.0		6.14		TAS		7.0	0.78	m_e	

Event 90905008 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	11:52:05.54			52.6200	-32.4800				39.5	0.2		24		24.22	29.08	m i ke	BGR
90905014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90905014
Ms	4.6		BGR	90905014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	26.06		P	11:57:36.308	0.7	292.1		8.97		TAS		46.6	1.28	m_e	mb 5.0
BFO	26.07		P	11:57:35.604	0.8	292.1		8.97		TAS		57.9	1.04	m_e	mb 5.2
BFO	26.07		pP	11:57:45.735	-0.3					T__				m_e	
BUG	24.28		P	11:57:19.451	-0.6	292.1		8.97		TAS		62.5	1.27	m_e	mb 5.0
CLL	27.70		P	11:57:50.403	-0.1	292.1		8.97		TAS		25.2	0.75	m_e	mb 5.1
FLT1	26.33		P	11:57:37.736	-0.1	292.1		8.97		TAS		23.5	1.00	m_e	mb 4.8
FUR	27.92		P	11:57:52.979		292.1		8.97		TAS		98.7	1.16	m_e	mb 5.5
GEC2	29.08		P	11:58:02.821	0.4	292.1		8.97		TAS		34.4	1.26	m_e	mb 5.0
GOR1	26.17		P	11:57:37.037	1.1	292.1		8.97		TAS		77.0	1.07	m_e	mb 5.3
GRA1	27.25		P	11:57:47.187	-0.3	292.1		8.97		TAS		36.2	0.80	m_e	mb 5.2
GRA1	27.25		L	12:07:29.001						T__		1896.0	18.50	a_e	Ms 4.7
GTTG	25.84		P	11:57:34.291	0.4	292.1		8.97		TAS		191.1	1.21	m_e	mb 5.6

IBBN	24.30	P	11:57:19.690	-0.3	292.1	8.97	TAS	110.4	1.03	m_e	mb	5.3
KAST	25.03	P	11:57:26.355	-0.5	292.1	8.97	TAS	44.6	1.09	m_e	mb	5.1
MANZ	27.67	P	11:57:49.728	-0.0	292.1	8.97	TAS	9.3	1.42	m_e	mb	4.4
MOX	27.13	P	11:57:45.232	-0.6	292.1	8.97	TAS	14.3	0.79	m_e	mb	4.8
MOX	27.13	pP	11:57:55.401	-0.3			T__				m_e	
MOX	27.13	L	12:06:26.671				T__	1444.2	21.70	a_e	Ms	4.5
NEUB	27.02	P	11:57:44.385	-0.1	292.1	8.97	TAS	32.0	0.74	m_e	mb	5.1
PLN	27.51	P	11:57:48.380	-0.1	292.1	8.97	TAS	11.6	1.29	m_e	mb	4.6
RETH	25.11	P	11:57:27.229	0.3	292.1	8.97	TAS	33.1	1.09	m_e	mb	5.0
ROTZ	27.81	P	11:57:51.712	-0.2	292.1	8.97	TAS	10.4	1.61	m_e	mb	4.4
ROTZ	27.81	pP	11:58:01.808	-0.3			T__				m_e	
STU	26.41	P	11:57:39.012	0.5	292.1	8.97	TAS	134.4	0.83	m_e	mb	5.6
STU	26.41	pP	11:57:49.176	-0.3			T__				m_e	
TANN	27.71	P	11:57:50.749	-0.3	292.1	8.97	TAS	37.0	1.14	m_e	mb	5.1
TNS	25.39	P	11:57:29.707	-0.7	292.1	8.97	TAS	140.7	1.29	m_e	mb	5.5
UBBA	26.11	P	11:57:36.127	-0.3	292.1	8.97	TAS	66.7	1.71	m_e	mb	5.0
WET	28.46	P	11:57:57.245	-0.2	292.1	8.97	TAS	12.6	1.01	m_e	mb	4.7
WLF	24.22	P	11:57:18.874	0.5	292.1	8.97	TAS	44.2	0.86	m_e	mb	5.0

Event 90905009 South China Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	13:58:40.48			15.0500	115.7870				33.0			25		85.34	90.85	m i ke	BGR
OrigID 90905015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	90905015
Ms	4.8		BGR	90905015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	87.26		P	14:11:23.228	0.1	69.3		4.78		TAS		82.0	1.35	a_e	mb	5.7
BFO	90.07		P	14:11:35.978	0.2	69.3		4.78		TAS		11.6	0.96	a_e	mb	5.1
BUG	89.47		P	14:11:33.678	-0.1	69.3		4.78		TAS		67.7	1.20	a_e	mb	5.8
CLL	86.18		P	14:11:17.578	-0.5	69.3		4.78		TAS		68.7	1.22	m_e	mb	5.7
FLT1	86.86		P	14:11:20.678	-0.6	69.3		4.78		TAS		66.3	1.26	a_e	mb	5.6
FUR	88.30		P	14:11:28.428		69.3		4.78		TAS		15.1	0.56	a_e	mb	5.5
GEC2	86.56		P	14:11:19.878	-0.3	69.3		4.78		TAS		66.4	1.31	a_e	mb	5.6
GOR1	86.59		P	14:11:20.278	0.3	69.3		4.78		TAS		159.6	1.27	a_e	mb	6.0
GRA1	87.80		P	14:11:25.978	0.3	69.3		4.78		TAS		14.3	0.82	a_e	mb	5.3
GRA1	87.80		L	14:53:03.457						T__		489.7	21.20	a_e	Ms	4.9
GTTG	87.88		P	14:11:26.378	0.2	69.3		4.78		TAS		77.2	1.29	a_e	mb	5.9
IBBN	88.85		P	14:11:30.878	0.1	69.3		4.78		TAS		122.3	1.45	a_e	mb	5.9
KAST	88.91		P	14:11:31.228	0.2	69.3		4.78		TAS		64.3	1.56	a_e	mb	5.6
MANZ	87.16		P	14:11:22.978	0.3	69.3		4.78		TAS		8.1	1.20	a_e	mb	4.7
MOX	87.23		P	14:11:22.978	-0.1	69.3		4.78		TAS		44.6	1.33	a_e	mb	5.4
MOX	87.23		L	14:53:05.542						T__		406.9	21.50	a_e	Ms	4.8

NEUB	86.94	P	14:11:21.528	-0.2	69.3	4.78	TAS	102.9	1.31	a_e	mb	5.8
PLN	86.96	P	14:11:21.678	-0.1	69.3	4.78	TAS	10.1	1.08	a_e	mb	4.9
RETH	87.78	P	14:11:25.828	0.1	69.3	4.78	TAS	62.6	1.40	a_e	mb	5.8
ROTZ	87.17	P	14:11:23.078	0.2	69.3	4.78	TAS	11.9	1.26	a_e	mb	4.9
RUE	85.34	P	14:11:13.878	-0.2	69.3	4.78	TAS	270.2	1.31	a_e	mb	6.3
STU	89.37	P	14:11:33.028	-0.7	69.3	4.78	TAS	31.3	0.81	a_e	mb	5.6
TANN	86.80	P	14:11:20.928	0.1	69.3	4.78	TAS	36.9	1.20	a_e	mb	5.4
TNS	89.27	P	14:11:32.928	0.3	69.3	4.78	TAS	39.4	1.38	a_e	mb	5.5
UBBA	88.12	P	14:11:27.428	-0.1	69.3	4.78	TAS	49.6	1.59	a_e	mb	5.6
WET	86.97	P	14:11:22.128	0.0	69.3	4.78	TAS	47.5	1.36	a_e	mb	5.4
WLF	90.85	P	14:11:40.528	0.2	69.3	4.78	TAS	93.4	1.10	a_e	mb	6.0

Event 90905010 Off coast of Oregon, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	15:02:46.58			43.7800	-129.8700				33.0			25		77.55	82.38	m i ke	BGR
90905016																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	90905016
Ms	5.8		BGR	90905016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	78.57		P	15:14:45.282	0.3	332.6		5.40		TAS		265.6	1.59	a_e	mb	6.0
BFO	81.19		S	15:25:04.007		330.3		11.01		TAS				m_e		
BFO	81.19		P	15:14:59.232	-0.2	332.6		5.40		TAS		178.1	1.40	a_e	mb	5.9
BUG	78.15		S	15:24:31.436	-0.1	330.3		11.01		TAS				m_e		
BUG	78.15		P	15:14:42.695	0.1	332.6		5.40		TAS		64.9	1.06	m_e	mb	5.7
CLL	79.97		S	15:24:52.732		330.3		11.01		TAS				m_e		
CLL	79.97		P	15:14:52.632	-0.2	332.6		5.40		TAS		142.1	1.17	m_e	mb	5.8
FLT1	78.56		P	15:14:44.682	-0.3	332.6		5.40		TAS		244.7	1.33	a_e	mb	6.1
FUR	82.27		S	15:25:17.160		330.3		11.01		TAS				m_e		
FUR	82.27		P	15:15:05.332		332.6		5.40		TAS		101.0	1.16	a_e	mb	5.8
GEC2	82.38		S	15:25:19.666		330.3		11.01		TAS				m_e		
GEC2	82.38		P	15:15:05.582		332.6		5.40		TAS		47.8	0.92	a_e	mb	5.6
GOR1	77.99		P	15:14:42.332	-0.4	332.6		5.40		TAS		341.0	1.54	a_e	mb	6.2
GRA1	80.90		S	15:25:03.381		330.3		11.01		TAS				m_e		
GRA1	80.90		P	15:14:58.132	-0.1	332.6		5.40		TAS		298.1	1.57	a_e	mb	6.1
GRA1	80.90		L	15:51:34.307						T__		4618.9	19.60	a_e	Ms	5.8
GTTG	78.88		P	15:14:47.132	0.1	332.6		5.40		TAS		265.4	1.63	a_e	mb	6.0
IBBN	77.55		P	15:14:39.482	0.3	332.6		5.40		TAS		324.4	1.35	a_e	mb	6.3
KAST	78.71		P	15:14:45.582	0.1	332.6		5.40		TAS		44.3	1.25	a_e	mb	5.3
MANZ	80.90		P	15:14:57.582	0.1	332.6		5.40		TAS		12.8	1.03	a_e	mb	4.9
MOX	80.16		S	15:24:54.612		330.3		11.01		TAS				m_e		
MOX	80.16		P	15:14:53.732	-0.1	332.6		5.40		TAS		171.6	1.50	a_e	mb	5.8
MOX	80.16		L	15:54:43.841						T__		3283.8	19.70	a_e	Ms	5.7

NEUB	79.72	P	15:14:51.232	-0.0	332.6	5.40	TAS	224.4	1.53	a_e	mb	5.9
PLN	80.46	P	15:14:55.182	-0.1	332.6	5.40	TAS	20.1	1.12	a_e	mb	5.0
RETH	77.65	P	15:14:40.382	-0.2	332.6	5.40	TAS	274.8	1.51	a_e	mb	6.2
ROTZ	81.12	P	15:14:58.982	0.2	332.6	5.40	TAS	30.6	1.42	a_e	mb	5.1
RUE	79.13	P	15:14:48.232	0.1	332.6	5.40	TAS	164.9	1.27	a_e	mb	5.9
STU	81.08	S	15:25:04.633		330.3	11.01	TAS			m_e		
STU	81.08	P	15:14:58.732	-0.0	332.6	5.40	TAS	139.8	1.22	a_e	mb	5.9
TANN	80.61	P	15:14:56.132	0.4	332.6	5.40	TAS	40.5	1.03	a_e	mb	5.4
TNS	79.58	P	15:14:50.532	-0.1	332.6	5.40	TAS	112.8	1.26	a_e	mb	5.7
UBBA	79.53	S	15:24:47.722		330.3	11.01	TAS			m_e		
UBBA	79.53	P	15:14:50.462	-0.1	332.6	5.40	TAS	217.3	1.73	m_e	mb	5.8
WET	81.87	S	15:25:12.776		330.3	11.01	TAS			m_e		
WET	81.87	P	15:15:02.982		332.6	5.40	TAS	50.4	1.11	a_e	mb	5.6
WLF	79.32	P	15:14:49.282	-0.1	332.6	5.40	TAS	152.2	1.43	a_e	mb	5.8

Event 90905012 Zaire

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/05	18:50:05.80			-2.0700	27.1600				10.0			9		52.04	55.77	m i ke	EMSC
	90905044																

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90905018
Ms	3.9		BGR	90905018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	55.77		P	18:59:46.538	0.6	160.0		7.67		TAS		12.5	1.03	m_e	mb	4.9
BFO	52.81		P	18:59:19.571		160.0		7.67		TAS		37.2	1.45	m_e	mb	5.1
BRG	53.94		P	18:59:34.207		160.0		7.67		TAS		20.3	1.56	m_e	mb	4.9
GEC2	52.04		P	18:59:19.083		160.0		7.67		TAS		5.8	0.75	m_e	mb	4.6
GRA1	53.36		P	18:59:28.039		160.0		7.67		TAS		10.5	0.90	m_e	mb	4.8
GRA1	53.36		L	19:23:01.819						T__		96.9	19.40	a_e	Ms	3.9
MANZ	53.45		P	18:59:29.088		160.0		7.67		TAS		2.3	1.05	m_e	mb	4.0
MOX	54.17		L	19:21:48.762						T__		96.5	19.40	a_e	Ms	3.9
NEUB	54.66		P	18:59:39.126		160.0		7.67		TAS		23.7	0.92	m_e	mb	5.2
PLN	53.91		P	18:59:32.811		160.0		7.67		TAS		2.7	0.76	m_e	mb	4.3
ROTZ	53.22		P	18:59:23.969		160.0		7.67		TAS		1.6	1.01	m_e	mb	3.9
TANN	53.78		P	18:59:30.949		160.0		7.67		TAS		9.0	1.01	m_e	mb	4.8
TNS	54.51		P	18:59:37.697		160.0		7.67		TAS		15.7	0.79	m_e	mb	5.1
UBBA	54.69		P	18:59:39.093		160.0		7.67		TAS		9.9	0.75	m_e	mb	4.9
WET	52.49		P	18:59:22.340		160.0		7.67		TAS		10.2	1.18	m_e	mb	4.6

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/06	15:27:56.50			-19.5820	171.4220				35.1	1.1		24		143.84	148.23	m i k e	BGR
90906007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.5		BGR	90906007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	144.20		PKPbc	15:47:25.856	0.3	34.8		3.20		TAS				a_e	
ASSE	144.20		pPKPbc	15:47:36.394	4.0					T__				m_e	
BFO	148.23		PKPbc	15:47:38.056	-0.2	34.8		3.20		TAS				a_e	
BFO	148.23		pPKPbc	15:47:48.482	4.0					T__				m_e	
BRG	144.06		PKPbc	15:47:26.556	0.4	34.8		3.20		TAS				a_e	
BRG	144.06		pPKPbc	15:47:37.320	4.0					T__				m_e	
BUG	145.85		PKPbc	15:47:31.456	-0.7	34.8		3.20		TAS				a_e	
BUG	145.85		pPKPbc	15:47:41.857	4.0					T__				m_e	
CLL	144.07		PKPbc	15:47:24.806	0.3	34.8		3.20		TAS				a_e	
CLL	144.07		pPKPbc	15:47:35.406	4.0					T__				m_e	
FLT1	143.84		PKPbc	15:47:24.106	-0.2	34.8		3.20		TAS				a_e	
FLT1	143.84		pPKPbc	15:47:34.848	4.0					T__				m_e	
FUR	147.27		PKPbc	15:47:35.556		34.8		3.20		TAS				m_e	
FUR	147.27		pPKPbc	15:47:45.767	4.0					T__				m_e	
GEC2	145.74		PKPbc	15:47:30.556	-0.1	34.8		3.20		TAS				a_e	
GEC2	145.74		pPKPbc	15:47:40.967	4.0					T__				m_e	
GRA1	146.04		PKPbc	15:47:32.356	0.0	34.8		3.20		TAS				a_e	
GRA1	146.04		pPKPbc	15:47:42.731	4.0					T__				m_e	
GRA1	146.04		L	16:56:12.889						T__		776.7	21.00	a_e Ms	5.5
GTTG	144.93		PKPbc	15:47:28.656	-0.1	34.8		3.20		TAS				a_e	
GTTG	144.93		pPKPbc	15:47:39.197	4.0					T__				m_e	
IBBN	144.94		PKPbc	15:47:28.606	-0.8	34.8		3.20		TAS				a_e	
IBBN	144.94		pPKPbc	15:47:39.409	4.0					T__				m_e	
KAST	145.72		PKPbc	15:47:31.256	-0.1	34.8		3.20		TAS				a_e	
KAST	145.72		pPKPbc	15:47:41.805	4.0					T__				m_e	
MANZ	145.47		PKPbc	15:47:30.056	0.2	34.8		3.20		TAS				a_e	
MANZ	145.47		pPKPbc	15:47:40.674	4.0					T__				m_e	
MOX	145.12		PKPbc	15:47:28.806	-0.0	34.8		3.20		TAS				a_e	
MOX	145.12		pPKPbc	15:47:39.350	4.0					T__				m_e	
MOX	145.12		L	16:55:04.523						T__		908.0	21.10	a_e Ms	5.5
NEUB	144.61		PKPbc	15:47:27.106	1.1	34.8		3.20		TAS				a_e	
NEUB	144.61		pPKPbc	15:47:37.886	4.0					T__				m_e	
PLN	145.05		PKPbc	15:47:28.606	-0.0	34.8		3.20		TAS				a_e	
PLN	145.05		pPKPbc	15:47:39.158	4.0					T__				m_e	
RETH	144.09		PKPbc	15:47:25.606	-0.1	34.8		3.20		TAS				a_e	
RETH	144.09		pPKPbc	15:47:36.274	4.0					T__				m_e	
ROTZ	145.61		PKPbc	15:47:30.656	0.3	34.8		3.20		TAS				a_e	
ROTZ	145.61		pPKPbc	15:47:40.938	4.0					T__				m_e	
STU	147.55		PKPbc	15:47:36.556	-0.8	34.8		3.20		TAS				a_e	
STU	147.55		pPKPbc	15:47:47.057	4.0					T__				m_e	

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TANN	144.99	PKPbc	15:47:28.406	0.5	34.8		3.20		TAS		a_e
TANN	144.99	pPKPbc	15:47:38.840	4.0					T__		m_e
TNS	146.56	PKPbc	15:47:34.056	0.1	34.8		3.20		TAS		a_e
TNS	146.56	pPKPbc	15:47:44.336	4.0					T__		m_e
UBBA	145.53	PKPbc	15:47:30.606	-0.0	34.8		3.20		TAS		a_e
UBBA	145.53	pPKPbc	15:47:40.796	4.0					T__		m_e
WET	145.84	PKPbc	15:47:31.256	-0.4	34.8		3.20		TAS		a_e
WET	145.84	pPKPbc	15:47:41.771	4.0					T__		m_e
WLF	147.75	PKPbc	15:47:37.906	0.6	34.8		3.20		TAS		a_e
WLF	147.75	pPKPbc	15:47:48.527	4.0					T__		m_e

Event 90907001 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/07	00:09:36.53			36.1470	142.0850				36.4					84.11	84.11	m i ke	BGR
90907007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90907007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	84.11		P	00:22:02.938		42.9		4.46		TAS		16.5	1.08	m_e mb	5.2
GRA1	84.11		pP	00:22:13.504						T__				m_e	

Event 90907002 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/07	03:20:04.98			47.7750	155.7690				33.0				14	75.77	80.19	m i ke	BGR
90907008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90907008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	76.10		P	03:31:47.120	-0.8	23.5		5.56		TAS		3.3	0.92	m_e mb	4.5
BFO	80.19		P	03:32:10.471		23.5		5.56		TAS		8.8	0.99	m_e mb	4.7
BRG	76.40		P	03:31:49.816	-0.0	23.5		5.56		TAS		3.7	0.90	m_e mb	4.5
BUG	77.54		P	03:31:55.980		23.5		5.56		TAS		9.6	1.07	m_e mb	4.8
CLL	76.26		P	03:31:48.026	-0.2	23.5		5.56		TAS		12.0	0.78	m_e mb	5.1
FLT1	75.77		P	03:31:45.428	-0.4	23.5		5.56		TAS		7.3	0.99	m_e mb	4.8
GEC2	78.30		P	03:31:59.869		23.5		5.56		TAS		4.4	0.76	m_e mb	4.7
GRA1	78.20		P	03:31:59.647		23.5		5.56		TAS		13.4	0.75	m_e mb	5.2
GTTG	76.81		P	03:31:51.553	-0.8	23.5		5.56		TAS		3.5	0.85	m_e mb	4.5

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KAST	77.50	P	03:31:55.469	1.2	23.5	5.56	TAS	7.2	0.88	m_e	mb	4.8
MANZ	77.70	P	03:31:56.728	-0.4	23.5	5.56	TAS	1.1	0.85	m_e	mb	4.0
MOX	77.22	P	03:31:54.075	0.1	23.5	5.56	TAS	7.7	1.03	m_e	mb	4.8
NEUB	76.68	P	03:31:50.892	-0.1	23.5	5.56	TAS	8.4	0.80	m_e	mb	4.9
ROTZ	77.87	P	03:31:57.843	-0.1	23.5	5.56	TAS	1.7	0.84	m_e	mb	4.2
TANN	77.21	P	03:31:54.075	0.1	23.5	5.56	TAS	2.4	0.76	m_e	mb	4.4
TNS	78.40	P	03:32:00.770	-0.0	23.5	5.56	TAS	9.8	1.05	m_e	mb	4.9
UBBA	77.47	P	03:31:55.451	-0.0	23.5	5.56	TAS	2.5	0.75	m_e	mb	4.4
WET	78.26	P	03:31:59.932		23.5	5.56	TAS	8.5	0.85	m_e	mb	4.9

Event 90907003 Off southeast coast of Hokkaido, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/07	09:35:43.88			42.0780	146.0570				33.0			12		78.16	82.55	m i ke	BGR
OrigID 90907009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	90907009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	82.55		P	09:48:02.197		32.3		5.39		TAS		16.4	1.10	m_e	mb	5.2
BRG	78.45		P	09:47:40.150	-0.0	32.3		5.39		TAS		6.6	1.03	m_e	mb	4.7
BUG	80.20		P	09:47:48.830	-0.0	32.3		5.39		TAS		26.6	1.07	m_e	mb	5.1
CLL	78.42		P	09:47:39.070	-0.6	32.3		5.39		TAS		20.9	1.02	m_e	mb	5.2
FLT1	78.16		P	09:47:38.138	-0.9	32.3		5.39		TAS		26.7	0.94	m_e	mb	5.3
GEC2	80.22		P	09:47:49.236		32.3		5.39		TAS		5.6	0.99	m_e	mb	4.5
GRA1	80.40		P	09:47:50.711		32.3		5.39		TAS		23.8	0.93	m_e	mb	5.1
IBBN	79.30		P	09:47:44.665	-0.0	32.3		5.39		TAS		28.9	0.98	m_e	mb	5.3
KAST	80.05		P	09:47:48.269	-0.0	32.3		5.39		TAS		9.7	0.97	m_e	mb	4.7
MANZ	79.84		P	09:47:47.883		32.3		5.39		TAS		3.3	1.08	m_e	mb	4.2
MOX	79.46		P	09:47:45.045	0.4	32.3		5.39		TAS		12.5	1.13	m_e	mb	4.8
NEUB	78.94		P	09:47:42.330	-0.0	32.3		5.39		TAS		18.6	0.76	m_e	mb	5.2
PLN	79.40		P	09:47:45.045	0.2	32.3		5.39		TAS		1.9	0.97	m_e	mb	4.1
RETH	78.43		P	09:47:39.535	0.5	32.3		5.39		TAS		14.5	1.00	m_e	mb	5.1
ROTZ	79.99		P	09:47:48.460		32.3		5.39		TAS		2.3	1.00	m_e	mb	4.1
TANN	79.36		P	09:47:45.142		32.3		5.39		TAS		4.8	1.11	m_e	mb	4.4
TNS	80.88		P	09:47:53.561		32.3		5.39		TAS		14.2	1.18	m_e	mb	4.9
WET	80.27		P	09:47:50.167		32.3		5.39		TAS		15.7	1.01	m_e	mb	4.9

Event 90907004 Sichuan, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/07	22:42:16.73			30.8950	107.3070				33.0			12		68.70	73.72	m i ke	BGR
OrigID																	

90907010

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90907010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	70.06		P	22:53:24.490	0.9	64.8		6.10		TAS		2.5	0.98	m_e	mb	4.3
BFO	73.08		P	22:53:42.863		64.8		6.10		TAS		3.7	0.89	m_e	mb	4.5
BRG	68.70		P	22:53:16.664	-0.6	64.8		6.10		TAS		3.1	0.71	m_e	mb	4.6
CLL	69.07		P	22:53:18.281	0.7	64.8		6.10		TAS		2.3	0.80	m_e	mb	4.5
FLT1	69.66		P	22:53:21.841	-0.5	64.8		6.10		TAS		3.3	0.87	m_e	mb	4.5
FUR	71.40		P	22:53:32.984		64.8		6.10		TAS		9.7	0.75	m_e	mb	5.0
GEC2	69.64		P	22:53:22.338		64.8		6.10		TAS		2.7	0.75	m_e	mb	4.5
GRA1	70.77		P	22:53:28.961		64.8		6.10		TAS		218.7	2.09	m_e	mb	5.9
GTTG	70.70		P	22:53:28.627	-0.6	64.8		6.10		TAS		5.6	0.70	m_e	mb	4.8
NEUB	69.82		P	22:53:23.239	0.9	64.8		6.10		TAS		4.4	0.76	m_e	mb	4.7
ROTZ	70.16		P	22:53:24.905	0.7	64.8		6.10		TAS		0.9	0.79	m_e	mb	4.0
STU	72.37		P	22:53:38.484		64.8		6.10		TAS		15.5	0.74	m_e	mb	5.2
TANN	69.74		P	22:53:22.255	0.4	64.8		6.10		TAS		1.2	0.69	m_e	mb	4.1
TNS	72.15		P	22:53:37.050	0.9	64.8		6.10		TAS		2.6	0.73	m_e	mb	4.5
UBR	72.31		P	22:53:38.743		64.8		6.10		TAS		4.8	0.68	m_e	mb	4.8
WET	70.02		P	22:53:24.818		64.8		6.10		TAS		1.7	0.85	m_e	mb	4.2
WLF	73.72		P	22:53:47.341	-0.8	64.8		6.10		TAS		10.1	0.82	m_e	mb	4.9

Event 90908001 Iceland region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/08	02:02:39.39			66.4820	-23.2130				10.0					24.29	24.29	m i ke	BGR
OrigID 90908007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	90908007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	24.29		P	02:07:53.296		325.4		9.22		TAS		11.1	1.22	m_e	mb	4.3

Event 90908002 Northern India

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/08	02:33:33.72			26.3590	82.6720				21.0					58.59	58.59	m i ke	BGR
OrigID 90908008																	

Magnitude	Err	Nsta	Author	OrigID
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./bul1909.txt Wed Jul 21 10:35:31 2021 23

mb 4.4 BGR 90908008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	58.59		P	02:43:26.823		94.0		6.28		TAS		3.5	0.83	m_e mb	4.4
GRA1	58.59		pP	02:43:32.633						T__				m_e	

Event 90908003 Eastern Caroline Islands, Micronesia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/08	18:10:10.07		2.3450	151.9900					33.0					118.15	118.15	m i ke	BGR
OrigID 90908009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	118.15		PKPdf	18:28:53.632		45.4		1.39		TAS				m_e	

Event 90909001 Lake Tanganyika region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/09	00:39:01.54		-5.2500	29.4900					33.0				26	55.40	60.25	m i ke	BGR
OrigID 90909007																	

Magnitude Err Nsta Author OrigID

mb	5.5		BGR	90909007
Ms	4.7		BGR	90909007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	59.37		P	00:49:00.370		157.4		7.03		TAS		85.3	1.38	m_e mb	5.6
BFO	56.49		P	00:48:40.589	0.2	157.4		7.03		TAS				m_e	
BRG	57.48		P	00:48:47.645	0.2	157.4		7.03		TAS		17.3	1.27	m_e mb	4.9
BUG	59.59		P	00:49:02.142	0.3	157.4		7.03		TAS		87.2	1.12	m_e mb	5.7
CLL	58.09		P	00:48:51.712	0.4	157.4		7.03		TAS		42.2	1.39	m_e mb	5.3
FLT1	59.43		P	00:49:01.429	0.4	157.4		7.03		TAS		58.4	1.71	m_e mb	5.3
FUR	55.54		P	00:48:34.051	-0.2	157.4		7.03		TAS		77.1	1.11	m_e mb	5.6
GEC2	55.61		P	00:48:34.136	0.4	157.4		7.03		TAS		80.6	1.24	m_e mb	5.6
GOR1	60.03		P	00:49:05.789	0.3	157.4		7.03		TAS		190.8	1.37	m_e mb	5.9
GRA1	56.97		P	00:48:44.425	-0.1	157.4		7.03		TAS		776.0	2.58	m_e mb	6.3
GTTG	59.00		P	00:48:58.545		157.4		7.03		TAS		78.2	1.15	m_e mb	5.6
IBBN	60.25		P	00:49:06.546	0.3	157.4		7.03		TAS		84.5	1.45	m_e mb	5.6
KAST	59.07		P	00:48:58.691		157.4		7.03		TAS		55.7	1.21	m_e mb	5.5
MANZ	57.04		P	00:48:44.425	1.3	157.4		7.03		TAS		18.1	1.29	m_e mb	5.0
MOX	57.77		P	00:48:49.838	0.2	157.4		7.03		TAS		54.8	1.42	m_e mb	5.4

MOX	57.77	L	01:19:49.562							T__	553.3	18.90	a_e	Ms	4.7
NEUB	58.25	P	00:48:53.244	0.4	157.4	7.03				TAS	32.1	1.02	m_e	mb	5.3
PLN	57.50	P	00:48:47.684	0.4	157.4	7.03				TAS	8.7	1.07	m_e	mb	4.7
RETH	60.24	P	00:49:07.430	0.3	157.4	7.03				TAS	62.5	1.36	m_e	mb	5.5
ROTZ	56.81	P	00:48:42.888	-0.3	157.4	7.03				TAS	17.5	1.46	m_e	mb	4.9
RUE	59.04	P	00:48:57.996	0.3	157.4	7.03				TAS			m_e		
STU	56.65	P	00:48:41.963	0.2	157.4	7.03				TAS	115.4	1.21	m_e	mb	5.8
TANN	57.36	P	00:48:46.826	-0.7	157.4	7.03				TAS	69.8	1.48	m_e	mb	5.5
TNS	58.17	P	00:48:52.664	0.0	157.4	7.03				TAS	76.2	1.14	m_e	mb	5.6
UBBA	58.31	P	00:48:54.031	-0.7	157.4	7.03				TAS	193.6	1.75	m_e	mb	5.8
UBR	55.40	P	00:48:32.914	0.1	157.4	7.03				TAS	89.6	1.56	m_e	mb	5.6
WET	56.07	P	00:48:37.221	-0.7	157.4	7.03				TAS	38.4	1.16	m_e	mb	5.3
WLF	58.33	P	00:48:53.112	0.3	157.4	7.03				TAS	95.0	1.58	m_e	mb	5.6

Event 90909003 Nepal-India border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/09	06:39:49.02			28.4840	80.8310				33.0					55.95	55.95	m i ke	BGR
90909009																	

Magnitude Err Nsta Author OrigID
 mb 4.9 BGR 90909009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	55.95		P	06:49:23.393		93.5		6.47		TAS		13.4	0.96	m_e mb	4.9

Event 90909004 Luzon, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/09	17:17:02.51			16.1960	120.1380				33.0					89.51	89.51	m i ke	BGR
90909010																	

Magnitude Err Nsta Author OrigID
 mb 4.8 BGR 90909010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	89.51		P	17:29:56.006		66.0		4.06		TAS		5.5	0.85	m_e mb	4.8

Event 90909005 Near coast of Venezuela

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID
 2019/09/09 18:05:24.85 10.5650 -64.0880 8.7 1.0 17 69.24 74.33 m i ke BGR
 90909011

Magnitude Err Nsta Author OrigID
 mb 5.3 BGR 90909011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	72.38		P	18:16:47.673	0.1	265.7		5.96		TAS		34.4	1.09	m_e mb	5.4
BFO	70.50		P	18:16:36.623		265.7		5.96		TAS		10.9	1.10	m_e mb	4.9
BRG	74.33		P	18:16:59.317		265.7		5.96		TAS		68.0	1.65	m_e mb	5.4
BUG	70.20		P	18:16:34.847	-0.0	265.7		5.96		TAS		41.7	1.11	m_e mb	5.5
CLL	73.76		P	18:16:55.771		265.7		5.96		TAS		22.6	0.93	m_e mb	5.2
CLZ	72.16		P	18:16:46.275	-0.1	265.7		5.96		TAS		30.1	1.09	m_e mb	5.3
FLT1	72.74		P	18:16:49.867	0.4	265.7		5.96		TAS		18.3	0.95	m_e mb	5.2
FUR	72.44		P	18:16:48.339		265.7		5.96		TAS		186.4	2.14	m_e mb	5.8
GEC2	74.09		P	18:16:58.131	-0.2	265.7		5.96		TAS		38.8	0.86	m_e mb	5.5
GRA1	72.52		P	18:16:48.584	-0.2	265.7		5.96		TAS		52.2	1.37	m_e mb	5.5
GTTG	71.88		P	18:16:44.614		265.7		5.96		TAS		20.5	0.96	m_e mb	5.2
IBBN	70.62		P	18:16:37.312	-0.2	265.7		5.96		TAS		40.0	0.87	m_e mb	5.6
KAST	70.88		P	18:16:38.697	-0.4	265.7		5.96		TAS		15.4	1.16	m_e mb	5.0
MANZ	73.11		P	18:16:52.810		265.7		5.96		TAS		7.5	0.88	m_e mb	4.8
MOX	72.84		P	18:16:50.697	0.1	265.7		5.96		TAS				m_e	
NEUB	72.98		P	18:16:51.153		265.7		5.96		TAS		32.2	1.01	m_e mb	5.4
PLN	73.17		P	18:16:52.433	0.2	265.7		5.96		TAS		8.6	1.09	m_e mb	4.8
PLN	73.17		pP	18:16:54.973						T__				m_e	
RETH	71.64		P	18:16:43.376	-0.1	265.7		5.96		TAS		38.9	1.40	m_e mb	5.3
ROTZ	73.16		P	18:16:52.659		265.7		5.96		TAS		3.7	1.20	m_e mb	4.4
ROTZ	73.16		pP	18:16:55.117						T__				m_e	
RUE	74.31		P	18:16:59.240	-0.2	265.7		5.96		TAS		44.9	0.56	m_e mb	5.7
STU	71.11		P	18:16:40.151		265.7		5.96		TAS		85.1	0.71	m_e mb	6.0
TANN	73.36		P	18:16:53.490	-0.5	265.7		5.96		TAS		28.4	1.09	m_e mb	5.3
TANN	73.36		pP	18:16:56.242						T__				m_e	
TNS	70.78		P	18:16:38.395	0.4	265.7		5.96		TAS		36.0	0.80	m_e mb	5.5
UBBA	71.83		P	18:16:44.504		265.7		5.96		TAS		42.3	1.76	m_e mb	5.3
UBR	71.62		P	18:16:43.602		265.7		5.96		TAS		59.7	1.44	m_e mb	5.5
WET	73.56		P	18:16:55.005	-0.2	265.7		5.96		TAS		16.7	0.89	m_e mb	5.1
WET	73.56		pP	18:16:57.270						T__				m_e	
WLF	69.24		P	18:16:29.338		265.7		5.96		TAS		32.5	0.88	m_e mb	5.6
WLF	69.24		pP	18:16:31.713						T__				m_e	

Event 90909006 South of Aleutian Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
 OrigID
 2019/09/09 21:24:19.83 49.6350 -176.4040 33.0 26 75.87 82.90 m i ke BGR
 90909012

Magnitude Err Nsta Author OrigID
 mb 5.3 BGR 90909012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	78.44		P	21:36:15.785	-0.2	5.0		5.36		TAS		41.9	1.01	m_e	mb 5.5
BFO	82.33		P	21:36:36.859	-0.0	5.0		5.36		TAS		19.5	1.02	m_e	mb 5.2
BRG	79.48		P	21:36:21.648	1.4	5.0		5.36		TAS		25.6	0.91	m_e	mb 5.2
BUG	79.25		P	21:36:20.274	-0.1	5.0		5.36		TAS		35.7	0.86	m_e	mb 5.4
CLL	79.12		P	21:36:19.343	-0.3	5.0		5.36		TAS		22.1	0.87	m_e	mb 5.2
CLZ	78.74		P	21:36:17.415	0.5	5.0		5.36		TAS		56.0	0.84	m_e	mb 5.6
FLT1	78.20		P	21:36:14.417	-0.4	5.0		5.36		TAS		37.2	0.82	m_e	mb 5.6
FUR	82.36		P	21:36:36.859	-0.2	5.0		5.36		TAS		26.8	0.91	m_e	mb 5.4
GEC2	81.52		P	21:36:32.316	-0.2	5.0		5.36		TAS		18.4	0.87	m_e	mb 5.2
GRA1	80.84		P	21:36:28.758	0.4	5.0		5.36		TAS		49.6	0.87	m_e	mb 5.5
GTTG	79.05		P	21:36:19.002	0.6	5.0		5.36		TAS		61.6	0.91	m_e	mb 5.6
IBBN	78.37		P	21:36:15.128	-0.5	5.0		5.36		TAS		101.9	0.93	m_e	mb 5.9
KAST	79.46		P	21:36:21.368	-0.1	5.0		5.36		TAS		16.9	1.02	m_e	mb 5.0
MANZ	80.49		P	21:36:27.061	0.0	5.0		5.36		TAS		3.9	0.90	m_e	mb 4.3
MOX	79.87		P	21:36:23.503	-0.2	5.0		5.36		TAS		23.0	0.89	m_e	mb 5.1
NEUB	79.31		P	21:36:20.466	0.2	5.0		5.36		TAS		63.8	0.91	m_e	mb 5.6
RGN	75.87		P	21:36:01.549	0.1	5.0		5.36		TAS		107.8	0.95	m_e	mb 6.0
ROTZ	80.70		P	21:36:28.211	0.0	5.0		5.36		TAS		5.5	0.96	m_e	mb 4.6
RUE	77.90		P	21:36:12.501	-0.6	5.0		5.36		TAS		59.4	1.02	m_e	mb 5.7
STU	81.86		P	21:36:34.177	-0.2	5.0		5.36		TAS		57.2	0.95	m_e	mb 5.7
TANN	80.04		P	21:36:24.254	-0.4	5.0		5.36		TAS		16.5	0.98	m_e	mb 4.9
TNS	80.44		P	21:36:26.590	0.4	5.0		5.36		TAS		32.0	0.86	m_e	mb 5.3
UBBA	79.78		P	21:36:23.101	-0.3	5.0		5.36		TAS		9.3	0.93	m_e	mb 4.7
UBR	82.90		P	21:36:39.542	-0.4	5.0		5.36		TAS		71.2	1.49	m_e	mb 5.7
WET	81.28		P	21:36:31.331	0.1	5.0		5.36		TAS		15.1	0.99	m_e	mb 5.0
WLF	81.06		P	21:36:30.455	0.5	5.0		5.36		TAS		31.8	0.85	m_e	mb 5.4

Event 90910001 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/10	05:40:19.92			19.4720	122.2650				33.0					88.17	88.17	m i ke	BGR
OrigID 90910007																	

Magnitude Err Nsta Author OrigID
 mb 5.3 BGR 90910007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	88.17		P	05:53:06.982		66.3		4.15		TAS		18.4	1.04	m_e	mb 5.3

Event 90910003 West of Vancouver Island

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/10	20:32:10.23			54.7660	-135.5970				33.0			16		69.04	74.45	m i ke	BGR
OrigID 90910009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90910009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	69.84		P	20:43:15.623	-0.0	340.6		6.00		TAS		4.3	0.80	m_e	mb	4.6
BFO	72.88		P	20:43:34.232		340.6		6.00		TAS				m_e		
BRG	71.70		P	20:43:27.599	-1.0	340.6		6.00		TAS		5.0	0.84	m_e	mb	4.7
BUG	69.73		P	20:43:15.643	1.0	340.6		6.00		TAS		8.9	0.68	m_e	mb	5.0
CLL	71.10		P	20:43:23.111	1.0	340.6		6.00		TAS		2.9	0.70	m_e	mb	4.5
CLZ	70.05		P	20:43:17.094	-0.3	340.6		6.00		TAS		8.1	0.71	m_e	mb	5.0
FLT1	69.77		P	20:43:15.214	-1.2	340.6		6.00		TAS		5.5	0.79	m_e	mb	4.8
GEC2	73.58		P	20:43:38.632		340.6		6.00		TAS				m_e		
GRA1	72.26		P	20:43:30.587		340.6		6.00		TAS		3.9	0.64	m_e	mb	4.7
GTTG	70.24		P	20:43:18.120	-0.0	340.6		6.00		TAS				m_e		
IBBN	69.04		P	20:43:11.380	0.2	340.6		6.00		TAS		4.1	0.80	m_e	mb	4.7
MANZ	72.17		P	20:43:29.828	-0.2	340.6		6.00		TAS		0.3	0.78	m_e	mb	3.5
MOX	71.44		P	20:43:25.968	-0.2	340.6		6.00		TAS		3.1	0.84	m_e	mb	4.5
NEUB	70.96		P	20:43:22.543	0.2	340.6		6.00		TAS		9.4	0.76	m_e	mb	5.0
RJOB	74.45		P	20:43:43.759		340.6		6.00		TAS		3.5	0.74	m_e	mb	4.5
ROTZ	72.40		P	20:43:31.287	-0.4	340.6		6.00		TAS		0.5	0.75	m_e	mb	3.7
TANN	71.84		P	20:43:28.263	0.8	340.6		6.00		TAS		2.2	0.84	m_e	mb	4.3
TNS	71.14		P	20:43:24.092	-0.2	340.6		6.00		TAS				m_e		
UBBA	70.93		P	20:43:22.911	0.1	340.6		6.00		TAS		2.2	0.74	m_e	mb	4.4
UBR	73.91		P	20:43:40.570		340.6		6.00		TAS		2.9	0.82	m_e	mb	4.3
WET	73.13		P	20:43:35.710		340.6		6.00		TAS		3.3	0.89	m_e	mb	4.5
WLF	71.11		P	20:43:23.927		340.6		6.00		TAS				m_e		

Event 90910004 Panay, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/10	23:33:03.17			10.6190	121.3140				33.0			23		92.08	97.61	m i ke	BGR
OrigID 90910010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	90910010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	93.98		P	23:46:17.223	-0.0	68.5		4.50		TAS		34.5	1.20	m_e	mb	5.6

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BFO	96.88	P	23:46:29.505	-0.1	68.5	4.50	TAS	5.0	0.60	m_e	mb	5.3
BRG	92.54	P	23:46:11.738	1.4	68.5	4.50	TAS	47.1	0.80	m_e	mb	6.0
BUG	96.20	P	23:46:26.973	0.4	68.5	4.50	TAS	18.8	1.00	m_e	mb	5.6
CLL	92.94	P	23:46:13.057	-0.7	68.5	4.50	TAS	29.2	0.90	m_e	mb	5.7
CLZ	94.27	P	23:46:18.446	0.4	68.5	4.50	TAS	48.6	1.00	m_e	mb	5.8
FLT1	93.59	P	23:46:15.212	-0.8	68.5	4.50	TAS	24.4	0.90	m_e	mb	5.5
GEC2	93.39	P	23:46:14.762	-0.5	68.5	4.50	TAS	26.6	1.00	m_e	mb	5.6
GRA1	94.60	P	23:46:20.282	-0.7	68.5	4.50	TAS	11.4	0.91	m_e	mb	5.3
GTTG	94.62	P	23:46:20.120	0.4	68.5	4.50	TAS	31.2	0.90	m_e	mb	5.7
IBBN	95.55	P	23:46:23.932		68.5	4.50	TAS	25.8	0.90	m_e	mb	5.8
KAST	95.64	P	23:46:24.622	-0.3	68.5	4.50	TAS	15.6	1.10	m_e	mb	5.5
MANZ	93.95	P	23:46:17.562	0.3	68.5	4.50	TAS			m_e		
MOX	94.00	P	23:46:17.993	-0.0	68.5	4.50	TAS	19.8	0.90	m_e	mb	5.4
NEUB	93.71	P	23:46:16.856	-0.3	68.5	4.50	TAS	38.2	0.80	m_e	mb	5.8
RJOB	94.34	P	23:46:18.327	-0.5	68.5	4.50	TAS			m_e		
ROTZ	93.97	P	23:46:17.762	0.4	68.5	4.50	TAS			m_e		
RUE	92.08	P	23:46:09.112	-0.5	68.5	4.50	TAS	130.3	1.00	m_e	mb	6.2
TANN	93.59	P	23:46:15.662	-0.1	68.5	4.50	TAS	20.6	0.90	m_e	mb	5.5
TNS	96.03	P	23:46:26.211	0.9	68.5	4.50	TAS	12.8	1.10	m_e	mb	5.3
UBBA	94.88	P	23:46:21.762	0.5	68.5	4.50	TAS	17.8	1.30	m_e	mb	5.3
UBR	96.05	P	23:46:25.888		68.5	4.50	TAS	16.3	1.00	m_e	mb	5.5
WET	93.79	P	23:46:16.577	-0.0	68.5	4.50	TAS	11.8	1.10	m_e	mb	5.2
WLF	97.61	P	23:46:33.278	0.9	68.5	4.50	TAS			m_e		

Event 90911002 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	17:52:13.42			-22.3800	-174.8300				612.0			20		149.74	153.98	m i ke	BGR
90911008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	150.00		PKPbc	18:10:41.087		25.0		2.27		TAS				m_e	
ASSE	150.00		PKPab	18:10:52.814	0.1	25.0		4.30		TAS				m_e	
BFO	153.98		PKPab	18:11:10.348		25.0		4.30		TAS				m_e	
CLL	150.49		PKPbc	18:10:41.500		25.0		2.27		TAS				m_e	
CLL	150.49		PKPab	18:10:53.865	0.7	25.0		4.30		TAS				m_e	
CLZ	150.32		PKPbc	18:10:42.246		25.0		2.27		TAS				m_e	
CLZ	150.32		PKPab	18:10:54.424	0.2	25.0		4.30		TAS				m_e	
FLT1	149.74		PKPbc	18:10:40.422		25.0		2.27		TAS				m_e	
FLT1	149.74		PKPab	18:10:51.467	-0.2	25.0		4.30		TAS				m_e	
FUR	153.81		PKPab	18:11:07.441		25.0		4.30		TAS				m_e	
GEC2	152.73		PKPab	18:11:01.810		25.0		4.30		TAS				m_e	
GRA1	152.33		PKPab	18:11:01.472	0.1	25.0		4.30		TAS				m_e	

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GTTG	150.65	PKPab	18:10:56.042	0.0	25.0	4.30	TAS	m_e
IBBN	150.06	PKPab	18:10:55.130		25.0	4.30	TAS	m_e
KAST	151.12	PKPab	18:10:59.079	0.1	25.0	4.30	TAS	m_e
MANZ	151.91	PKPbc	18:10:44.481		25.0	2.27	TAS	m_e
MANZ	151.91	PKPab	18:10:59.364	0.4	25.0	4.30	TAS	m_e
MOX	151.34	PKPab	18:10:57.530	-0.3	25.0	4.30	TAS	m_e
NEUB	150.78	PKPbc	18:10:42.362		25.0	2.27	TAS	m_e
NEUB	150.78	PKPab	18:10:55.367	0.7	25.0	4.30	TAS	m_e
RJOB	153.97	PKPab	18:11:07.091		25.0	4.30	TAS	m_e
ROTZ	152.11	PKPbc	18:10:45.215		25.0	2.27	TAS	m_e
ROTZ	152.11	PKPab	18:11:00.098	-0.1	25.0	4.30	TAS	m_e
TANN	151.44	PKPbc	18:10:43.463		25.0	2.27	TAS	m_e
TANN	151.44	PKPab	18:10:57.219	0.1	25.0	4.30	TAS	m_e
TNS	152.09	PKPab	18:11:02.705	0.1	25.0	4.30	TAS	m_e
WET	152.60	PKPab	18:11:01.713	0.1	25.0	4.30	TAS	m_e
WLF	152.76	PKPab	18:11:07.552		25.0	4.30	TAS	m_e

Event 90911003 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	19:03:11.33			-8.7110	60.2870				11.1					72.17	72.17	m i ke	BGR
90911009																	

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 90911009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	72.17		P	19:14:34.214		128.6		6.97		TAS		10.3	0.81	m_e mb	5.0
GRA1	72.17		pP	19:14:37.383						T__				m_e	

Event 90911004 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/09/11	20:59:07.23			48.2450	152.4400				33.0					19	73.66	79.01	m i ke	BGR
90911010																		

Magnitude Err Nsta Author OrigID
mb 5.0 BGR 90911010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.90		P	21:11:05.827	-0.1	25.4		5.66		TAS		9.1	0.84	m_e mb	4.8
BRG	75.03		P	21:10:44.207	-0.1	25.4		5.66		TAS		4.2	0.65	m_e mb	4.6
BUG	76.31		P	21:10:51.110	-0.4	25.4		5.66		TAS		11.1	0.74	m_e mb	5.1

CLL	74.92	P	21:10:43.004	-0.1	25.4	5.66	TAS	28.3	0.63	m_e	mb	5.5
CLZ	75.15	P	21:10:44.295		25.4	5.66	TAS	16.3	0.68	m_e	mb	5.2
FLT1	74.48	P	21:10:40.352	-0.4	25.4	5.66	TAS	15.0	0.71	m_e	mb	5.1
FUR	78.24	P	21:11:02.081		25.4	5.66	TAS	9.3	0.78	m_e	mb	5.0
GEC2	76.91	P	21:10:54.552	-0.1	25.4	5.66	TAS	4.7	0.67	m_e	mb	4.8
GRA1	76.87	P	21:10:54.473	0.1	25.4	5.66	TAS	20.6	0.63	m_e	mb	5.4
IBBN	75.40	P	21:10:45.611	-0.4	25.4	5.66	TAS	14.5	0.66	m_e	mb	5.1
KAST	76.24	P	21:10:51.015	-0.5	25.4	5.66	TAS	9.4	0.73	m_e	mb	5.0
MANZ	76.35	P	21:10:51.361	0.3	25.4	5.66	TAS	0.8	0.78	m_e	mb	3.9
MOX	75.90	P	21:10:48.479	-0.2	25.4	5.66	TAS	6.0	0.69	m_e	mb	4.8
RJOB	78.18	P	21:11:01.562		25.4	5.66	TAS	7.2	0.84	m_e	mb	4.8
ROTZ	76.52	P	21:10:52.718	-0.4	25.4	5.66	TAS	1.2	0.74	m_e	mb	4.1
RUE	73.66	P	21:10:35.822	-0.2	25.4	5.66	TAS	18.2	0.81	m_e	mb	5.2
STU	78.26	P	21:11:02.427	-0.2	25.4	5.66	TAS	22.2	0.76	m_e	mb	5.4
TANN	75.87	P	21:10:48.710	0.4	25.4	5.66	TAS	3.0	0.67	m_e	mb	4.5
TNS	77.13	P	21:10:56.127	0.0	25.4	5.66	TAS	17.2	0.64	m_e	mb	5.3
UBBA	76.18	P	21:10:50.439	0.4	25.4	5.66	TAS	106.5	1.78	m_e	mb	5.7
UBR	79.01	P	21:11:06.461		25.4	5.66	TAS	3.7	0.67	m_e	mb	4.5
WET	76.89	P	21:10:54.819	-0.1	25.4	5.66	TAS	7.7	0.74	m_e	mb	4.9

Event 90911006 North Pacific Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/11	23:18:32.87			37.6060	150.6710				10.0					85.98	85.98	m i ke	BGR
OrigID 90911012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90911012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	85.98		P	23:31:08.567		28.9		3.87		TAS		13.0	1.25	m_e	mb	4.9

Event 90912001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/09/12	02:38:09.57			-15.9450	-173.8830				33.0					21	143.47	147.82	m i ke	BGR
OrigID 90912007																		

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	02:57:50.660	-0.4	8.8		3.19		TAS				m_e			
BRG	144.59		PKPbc	02:57:40.634	1.3	8.8		3.19		TAS				m_e			

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CLL	144.29	PKPbc	02:57:39.153	-0.3	8.8	3.19	TAS	m_e
FLT1	143.47	PKPbc	02:57:36.654	-0.8	8.8	3.19	TAS	m_e
FUR	147.59	PKPbc	02:57:50.422	-0.1	8.8	3.19	TAS	m_e
GEC2	146.61	PKPbc	02:57:47.476	-0.5	8.8	3.19	TAS	m_e
GRA1	146.09	PKPbc	02:57:45.429	0.4	8.8	3.19	TAS	m_e
GTTG	144.35	PKPbc	02:57:39.558	-0.1	8.8	3.19	TAS	m_e
KAST	144.78	PKPbc	02:57:41.117	0.1	8.8	3.19	TAS	m_e
MANZ	145.70	PKPbc	02:57:44.671	0.1	8.8	3.19	TAS	m_e
MOX	145.10	PKPbc	02:57:42.579	-0.0	8.8	3.19	TAS	m_e
NEUB	144.55	PKPbc	02:57:40.488	-0.3	8.8	3.19	TAS	m_e
PLN	145.20	PKPbc	02:57:42.754	-0.2	8.8	3.19	TAS	m_e
RJOB	147.82	PKPbc	02:57:50.887	-0.5	8.8	3.19	TAS	m_e
ROTZ	145.91	PKPbc	02:57:45.172	0.4	8.8	3.19	TAS	m_e
STU	147.17	PKPbc	02:57:49.101	0.4	8.8	3.19	TAS	m_e
TANN	145.24	PKPbc	02:57:43.102	0.1	8.8	3.19	TAS	m_e
TNS	145.76	PKPbc	02:57:45.077	0.2	8.8	3.19	TAS	m_e
UBBA	145.07	PKPbc	02:57:42.289	-0.3	8.8	3.19	TAS	m_e
WET	146.43	PKPbc	02:57:47.052	0.1	8.8	3.19	TAS	m_e
WLF	146.37	PKPbc	02:57:47.343	0.3	8.8	3.19	TAS	m_e

Event 90912002 Northwestern Kashmir

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/12	09:21:56.84			36.2750	73.3210				269.5					46.09	46.09	m i ke	BGR
OrigID 90912008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	90912008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	46.09		P	09:30:16.957		92.7		6.98		TAS		9.6	0.81	m_e mb	4.9
GRA1	46.09		sP	09:31:43.890						T__				m_e	

Event 90913001 Southwestern Siberia, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/13	04:08:05.50			50.5700	87.3800				10.0				18	46.07	46.78	m i ke	NEIC
OrigID 90913040																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90913007
Ms	4.6		BGR	90913007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	46.78		P	04:16:34.526		57.3		6.73		TAS		13.3	1.12	m_e	mb 5.0
GRA1	46.78		PP	04:18:23.288		55.4		10.04		TAS				m_e	
GRA1	46.78		L	04:37:43.779						T__		983.0	18.40	a_e	Ms 4.8
MOX	46.07		L	04:33:57.925						T__		452.5	20.30	a_e	Ms 4.4

Event 90913002 Philippine Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/13	08:28:15.50			14.9800	122.2100				32.0					91.69	91.69	m i ke	NEIC
	90913041																

Magnitude	Err	Nsta	Author	OrigID
mb 4.8			BGR	90913008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	91.69		P	08:41:32.750		64.5		4.33		TAS		5.3	0.93	m_e	mb 4.8

Event 90913004 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/13	14:12:39.39			43.8850	-28.0190				33.0					27.26	27.26	m i ke	BGR
	90913010																

Magnitude	Err	Nsta	Author	OrigID
mb 4.7			BGR	90913010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	27.26		P	14:18:20.134		272.9		8.35		TAS		19.4	1.27	m_e	mb 4.7

Event 90913005 Leeward Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/09/13	16:27:12.40			15.0470	-59.7750				33.0					23	63.12	68.21	m i ke	BGR
	90913011																	

Magnitude	Err	Nsta	Author	OrigID
mb 5.2			BGR	90913011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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ASSE	66.27	P	16:37:57.214	-0.5	265.5	6.41	TAS	35.9	1.14	m_e	mb	5.5
BFO	64.37	P	16:37:45.045	-0.2	265.5	6.41	TAS	11.2	1.21	m_e	mb	5.0
BRG	68.21	P	16:38:11.645		265.5	6.41	TAS	16.1	0.96	m_e	mb	5.2
BUG	64.08	P	16:37:43.661	0.3	265.5	6.41	TAS	20.9	0.89	m_e	mb	5.4
CLL	67.64	P	16:38:05.853		265.5	6.41	TAS	29.3	1.12	m_e	mb	5.4
CLZ	66.05	P	16:37:55.974	-0.1	265.5	6.41	TAS	20.8	0.95	m_e	mb	5.3
FLT1	66.63	P	16:37:59.171	-0.0	265.5	6.41	TAS	12.0	0.70	m_e	mb	5.2
GEC2	67.96	P	16:38:08.159		265.5	6.41	TAS	24.7	1.29	m_e	mb	5.3
GOR1	66.74	P	16:38:00.110	-0.4	265.5	6.41	TAS	17.0	1.12	m_e	mb	5.2
GRA1	66.39	P	16:37:58.155	-0.4	265.5	6.41	TAS	28.9	1.29	m_e	mb	5.3
GTTG	65.77	P	16:37:54.542	-0.1	265.5	6.41	TAS	32.7	1.20	m_e	mb	5.4
IBBN	64.51	P	16:37:46.381	0.4	265.5	6.41	TAS	40.2	0.82	m_e	mb	5.7
KAST	64.76	P	16:37:47.221	-0.5	265.5	6.41	TAS	14.3	1.04	m_e	mb	5.1
MANZ	66.99	P	16:38:02.103	-0.4	265.5	6.41	TAS	6.8	1.04	m_e	mb	4.8
MOX	66.72	P	16:38:00.016	-0.3	265.5	6.41	TAS	6.5	0.78	m_e	mb	4.9
NEUB	66.86	P	16:38:01.319	-0.4	265.5	6.41	TAS	15.4	0.74	m_e	mb	5.3
PLN	67.05	P	16:38:02.178	2.0	265.5	6.41	TAS	3.2	0.61	m_e	mb	4.7
RJOB	67.31	P	16:38:04.046	-0.4	265.5	6.41	TAS	10.8	1.31	m_e	mb	4.9
ROTZ	67.03	P	16:38:02.343	-0.2	265.5	6.41	TAS	4.4	1.28	m_e	mb	4.5
RUE	68.20	P	16:38:09.622		265.5	6.41	TAS	34.5	1.19	m_e	mb	5.5
STU	64.99	P	16:37:49.315	0.4	265.5	6.41	TAS	55.7	0.71	m_e	mb	5.9
TANN	67.24	P	16:38:03.506		265.5	6.41	TAS	10.9	0.86	m_e	mb	5.1
TNS	64.66	P	16:37:46.988	-0.2	265.5	6.41	TAS	26.7	0.86	m_e	mb	5.5
UBBA	65.71	P	16:37:53.735	-0.0	265.5	6.41	TAS	13.5	1.26	m_e	mb	5.0
UBR	65.50	P	16:37:52.872	-0.1	265.5	6.41	TAS	9.9	0.97	m_e	mb	5.0
WET	67.44	P	16:38:04.660		265.5	6.41	TAS	13.5	0.99	m_e	mb	5.1
WLF	63.12	P	16:37:37.683	0.4	265.5	6.41	TAS	26.5	0.90	m_e	mb	5.4

Event 90913007 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/13	22:53:32.83			-15.7670	-171.5650			33.0				15		145.12	148.15	m i ke	BGR
90913013																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.4		BGR	90913013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.53		PKPbc	23:13:12.956		4.8		3.08		TAS				m_e	
FUR	147.61		PKPbc	23:13:13.976		4.8		3.08		TAS				m_e	
GEC2	146.73		PKPbc	23:13:10.638		4.8		3.08		TAS				m_e	
GRA1	146.09		PKPbc	23:13:08.692		4.8		3.08		TAS				m_e	
GRA1	146.09		L	00:17:50.193						T__		621.3	20.20	a_e	Ms 5.4
GRFO	146.09		L	00:17:49.642						T__		632.0	20.30	a_e	Ms 5.4
MANZ	145.74		PKPbc	23:13:07.579		4.8		3.08		TAS				m_e	
MOX	145.12		PKPbc	23:13:05.911		4.8		3.08		TAS				m_e	

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PLN	145.24	PKPbc	23:13:05.911	4.8	3.08	TAS	m_e
RJOB	147.92	PKPbc	23:13:14.532	4.8	3.08	TAS	m_e
ROTZ	145.95	PKPbc	23:13:08.506	4.8	3.08	TAS	m_e
STU	147.08	PKPbc	23:13:11.886	4.8	3.08	TAS	m_e
TANN	145.29	PKPbc	23:13:06.652	4.8	3.08	TAS	m_e
TNS	145.63	PKPbc	23:13:07.394	4.8	3.08	TAS	m_e
UBR	148.15	PKPbc	23:13:15.088	4.8	3.08	TAS	m_e
WET	146.52	PKPbc	23:13:10.082	4.8	3.08	TAS	m_e
WLF	146.14	PKPbc	23:13:09.619	4.8	3.08	TAS	m_e

Event 90914002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	05:42:51.60			-17.5400	-178.9900				539.0					146.88	146.88	m i ke	EMSC
90914034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.88		PKP	06:01:34.077		18.0		1.79		TAS					m_e

Event 90914004 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	06:03:13.50			40.6800	33.0200				10.0					17.76	17.76	m i ke	NEIC
90914043																	

Magnitude Err Nsta Author OrigID

mb 4.0 BGR 90914010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	17.76		P	06:07:19.726		112.2		13.51		TAS		15.2	1.16	m_e mb	4.0

Event 90914005 Southern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	12:47:14.80			-37.4100	-17.1800				10.0					90.29	90.29	m i ke	EMSC
90914037																	

Magnitude Err Nsta Author OrigID

mb 5.5 BGR 90914011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	90.29		P	13:00:14.709		202.3		4.91		TAS		46.4	1.46	m_e	mb 5.5

Event 90914006 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	13:26:01.81			55.5000	-167.5000				67.7	3.0		27		71.87	77.17	m i ke	BGR

Magnitude 5.2 Err Nsta Author BGR 90914012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	72.73		P	13:37:23.524	0.3	358.5		5.78		TAS		180.2	2.26	a_e	mb 5.8
ASSE	72.73		pP	13:37:41.772	-0.2					T__				m_e	
BFO	76.48		P	13:37:44.774	-0.2	358.5		5.78		TAS		19.0	1.32	a_e	mb 5.1
BUG	73.34		P	13:37:26.624	0.1	358.5		5.78		TAS		77.5	1.57	a_e	mb 5.6
BUG	73.34		pP	13:37:44.893	0.1					T__				m_e	
CLL	73.56		P	13:37:28.124	0.1	358.5		5.78		TAS		47.4	1.69	a_e	mb 5.2
CLL	73.56		pP	13:37:46.454	0.0					T__				m_e	
CLZ	73.01		P	13:37:25.574	-0.3	358.5		5.78		TAS		84.5	1.70	a_e	mb 5.6
CLZ	73.01		pP	13:37:43.536	0.1					T__				m_e	
FLT1	72.53		P	13:37:21.874	0.5	358.5		5.78		TAS		26.0	1.26	a_e	mb 5.2
FLT1	72.53		pP	13:37:40.550	-0.2					T__				m_e	
FUR	76.70		P	13:37:46.474		358.5		5.78		TAS		44.1	1.30	a_e	mb 5.4
GEC2	76.02		P	13:37:42.043	0.0	358.5		5.78		TAS		15.3	1.28	m_e	mb 5.0
GEC2	76.02		pP	13:38:00.978						T__				m_e	
GOR1	71.87		P	13:37:18.591	-0.5	358.5		5.78		TAS		60.9	1.55	m_e	mb 5.5
GRA1	75.17		P	13:37:38.124	-0.3	358.5		5.78		TAS		43.7	1.34	a_e	mb 5.3
GRA1	75.17		pP	13:37:56.227						T__				m_e	
GTTG	73.30		P	13:37:27.074	-0.1	358.5		5.78		TAS		31.4	1.01	a_e	mb 5.4
GTTG	73.30		pP	13:37:45.436	0.1					T__				m_e	
IBBN	72.49		P	13:37:22.124	0.1	358.5		5.78		TAS		65.4	1.35	a_e	mb 5.6
IBBN	72.49		pP	13:37:40.143	0.4					T__				m_e	
KAST	73.61		P	13:37:28.624	-0.2	358.5		5.78		TAS		19.0	1.26	a_e	mb 5.0
KAST	73.61		pP	13:37:46.794	-0.0					T__				m_e	
MANZ	74.88		P	13:37:36.124	0.5	358.5		5.78		TAS		7.9	1.70	m_e	mb 4.5
MANZ	74.88		pP	13:37:53.920	0.1					T__				m_e	
MOX	74.22		P	13:37:31.934	0.1	358.5		5.78		TAS		22.3	1.17	m_e	mb 5.1
MOX	74.22		pP	13:37:50.594	-0.1					T__				m_e	
NEUB	73.67		P	13:37:29.024	-0.2	358.5		5.78		TAS		59.1	1.40	a_e	mb 5.4
NEUB	73.67		pP	13:37:47.337	-0.0					T__				m_e	
PLN	74.38		P	13:37:32.848	0.2	358.5		5.78		TAS		9.7	1.52	m_e	mb 4.6
PLN	74.38		pP	13:37:51.409	-0.1					T__				m_e	

RETH	72.10	P	13:37:19.690	0.1	358.5	5.78	TAS	22.3	1.33	m_e	mb	5.1
RETH	72.10	pP	13:37:38.107	-0.0			T__				m_e	
RJOB	77.14	P	13:37:48.974		358.5	5.78	TAS	9.8	0.83	a_e	mb	5.0
ROTZ	75.10	P	13:37:37.574	-0.4	358.5	5.78	TAS	5.1	1.27	a_e	mb	4.4
ROTZ	75.10	pP	13:37:55.413				T__				m_e	
RUE	72.39	P	13:37:20.897	-0.4	358.5	5.78	TAS	61.7	1.59	m_e	mb	5.5
STU	76.06	P	13:37:42.474	0.0	358.5	5.78	TAS	151.8	1.84	a_e	mb	5.8
STU	76.06	pP	13:38:01.045				T__				m_e	
TANN	74.46	P	13:37:33.571	0.2	358.5	5.78	TAS	23.7	1.51	m_e	mb	5.0
TANN	74.46	pP	13:37:51.816	0.3			T__				m_e	
TNS	74.59	P	13:37:34.274	0.4	358.5	5.78	TAS	37.1	1.48	a_e	mb	5.2
TNS	74.59	pP	13:37:52.359	0.1			T__				m_e	
UBR	77.17	P	13:37:48.936		358.5	5.78	TAS	61.0	1.77	m_e	mb	5.4
WET	75.73	P	13:37:41.224	-0.4	358.5	5.78	TAS	19.3	1.35	a_e	mb	5.1
WLF	75.07	P	13:37:37.074	0.4	358.5	5.78	TAS	29.4	1.22	a_e	mb	5.2
WLF	75.07	pP	13:37:54.802				T__				m_e	

Event 90914007 Turkey-Iran border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	15:33:43.00			39.0200	44.2800				10.0					25.74	25.74	m i ke	NEIC
90914046																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90914013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	25.74		P	15:39:16.717		102.0		10.44		TAS		17.1	1.11	m_e	mb	4.6

Event 90914008 Halmahera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	16:21:28.50			-0.9700	128.5700				10.0				18	105.65	110.40	m i ke	NEIC
90914047																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.5		BGR	90914014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude		
BFO	110.40		PP	16:40:35.725		68.5		7.27		TAS				m_e			
CLL	106.50		PP	16:40:06.088	-0.0	68.5		7.27		TAS				m_e			
CLZ	107.84		PP	16:40:17.065	2.1	68.5		7.27		TAS				m_e			
FUR	108.63		PP	16:40:24.748		68.5		7.27		TAS				m_e			

GRA1	108.12	L	17:29:30.689							T__	1285.3	20.30	a_e	Ms	5.5
GRFO	108.13	L	17:29:30.064							T__	1306.5	20.70	a_e	Ms	5.5
GTTG	108.18	PP	16:40:19.466	68.5	7.27					TAS			m_e		
IBBN	109.13	PP	16:40:26.587	68.5	7.27					TAS			m_e		
KAST	109.21	PP	16:40:27.234	68.5	7.27					TAS			m_e		
MANZ	107.48	PP	16:40:12.674	2.0	68.5	7.27				TAS			m_e		
MOX	107.55	PP	16:40:13.772	0.5	68.5	7.27				TAS			m_e		
PLN	107.28	PP	16:40:12.674	-2.4	68.5	7.27				TAS			m_e		
RETH	108.06	PP	16:40:15.967	0.2	68.5	7.27				TAS			m_e		
RJOB	107.81	PP	16:40:15.905	-0.3	68.5	7.27				TAS			m_e		
ROTZ	107.50	PP	16:40:14.869	0.4	68.5	7.27				TAS			m_e		
RUE	105.65	PP	16:40:03.928	-0.9	68.5	7.27				TAS			m_e		
STU	109.70	PP	16:40:32.432		68.5	7.27				TAS			m_e		
TANN	107.12	PP	16:40:10.479	-0.9	68.5	7.27				TAS			m_e		
TNS	109.58	PP	16:40:29.139		68.5	7.27				TAS			m_e		
UBR	109.54	PP	16:40:28.042		68.5	7.27				TAS			m_e		

Event 90914009 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	16:42:06.80			-30.4200	-177.7000				10.0					159.60	159.60	m i ke	EMSC
OrigID 90914041																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	159.60		PKP	17:02:43.044		22.6		3.84		TAS				m_e	

Event 90914010 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/14	21:10:52.60			54.5100	-35.1800				10.0					28.49	28.49	m i ke	EMSC
OrigID 90914042																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	28.49		P	21:16:47.450		297.7		8.43		TAS		17.8	1.37	m_e mb	4.7

Event 90915001 Off east coast of Honshu, Japan
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/09/15 03:02:30.81 38.6090 144.8020 33.0 83.00 83.00 m i ke BGR
90915007

Magnitude Err Nsta Author OrigID
mb 4.7 BGR 90915007

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 83.00 P 03:14:51.483 36.2 4.31 TAS 5.7 1.07 m_e mb 4.7

Event 90915003 Near coast of Guatemala
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/09/15 06:59:16.70 13.6700 -91.4500 30.0 87.70 87.70 m i ke EMSC
90915035

Magnitude Err Nsta Author OrigID
mb 4.6 BGR 90915009

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 87.70 P 07:11:59.973 288.4 5.06 TAS 3.2 0.99 m_e mb 4.6

Event 90915004 Tonga Islands
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/09/15 11:43:43.70 -15.2700 -173.8700 102.0 9 145.42 145.42 m i ke EMSC
90915036

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude
GRA1 145.42 PKP 12:03:10.246 -3.1 8.7 2.82 TAS m_e

Event 90915005 Hokkaido, Japan, region
Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author
OrigID
2019/09/15 16:27:09.49 41.8990 143.0770 33.0 79.49 79.49 m i ke BGR
90915011

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90915011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	79.49		P	16:39:11.424		35.7		4.65		TAS		7.2	1.00	m_e	mb	4.7

Event 90916001 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/16	00:29:57.32			29.9840	140.5290				33.0					88.79	88.79	m i ke	BGR
OrigID 90916007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	90916007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	88.79		P	00:42:46.821		49.6		4.17		TAS		3.9	1.19	m_e	mb	4.5

Event 90916003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/16	06:33:15.50			-17.6300	-178.7100				536.0					147.03	147.03	m i ke	EMSC
OrigID 90916035																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.03		PKP	06:51:58.078		17.6		2.15		TAS				m_e	

Event 90916005 Gansu, China

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2019/09/16	12:48:44.51			38.4250	100.1180				33.0					27	58.65	64.21	m i ke	BGR
OrigID 90916011																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90916011
Ms	4.6		BGR	90916011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	60.53		P	12:58:49.696	0.3	63.5		6.79		TAS		19.5	1.24	a_e	mb	4.8
BFO	63.60		P	12:59:10.196	-0.1	63.5		6.79		TAS		12.0	0.80	a_e	mb	5.2
BUG	62.72		P	12:59:04.846	-0.0	63.5		6.79		TAS		26.1	0.89	a_e	mb	5.4
CLL	59.56		P	12:58:42.896	-0.4	63.5		6.79		TAS		22.2	0.88	a_e	mb	5.2
CLZ	60.82		P	12:58:52.246	0.1	63.5		6.79		TAS		48.9	0.87	a_e	mb	5.3
FLT1	60.13		P	12:58:46.496	0.3	63.5		6.79		TAS		32.6	0.95	a_e	mb	5.3
FUR	61.94		P	12:59:00.096		63.5		6.79		TAS		66.0	1.10	a_e	mb	5.8
GEC2	60.19		P	12:58:47.846	0.5	63.5		6.79		TAS		11.9	0.96	a_e	mb	4.9
GEC2	60.19		PcP	12:59:33.842						T__				m_e		
GOR1	59.81		P	12:58:45.446	-0.3	63.5		6.79		TAS		62.7	1.26	a_e	mb	5.5
GRA1	61.28		P	12:58:55.546	-0.5	63.5		6.79		TAS		37.4	0.87	a_e	mb	5.2
GRA1	61.28		L	13:26:41.730						T__		386.4	18.70	a_e	Ms	4.6
GTTG	61.18		P	12:58:54.696	-0.6	63.5		6.79		TAS		45.2	0.84	a_e	mb	5.3
IBBN	62.05		P	12:59:00.196	-0.2	63.5		6.79		TAS		36.3	0.89	a_e	mb	5.6
KAST	62.20		P	12:59:01.246	-0.1	63.5		6.79		TAS		10.3	0.93	a_e	mb	5.0
MANZ	60.64		P	12:58:50.946	0.3	63.5		6.79		TAS		3.4	1.10	a_e	mb	4.1
MOX	60.64		P	12:58:50.696	-0.0	63.5		6.79		TAS		12.7	0.98	a_e	mb	4.7
MOX	60.64		PcP	12:59:35.719						T__				m_e		
MOX	60.64		L	13:26:23.106						T__		430.2	18.40	a_e	Ms	4.6
NEUB	60.31		P	12:58:48.196	-0.1	63.5		6.79		TAS		45.6	0.92	a_e	mb	5.5
PLN	60.39		P	12:58:49.046	0.1	63.5		6.79		TAS		4.0	0.87	a_e	mb	4.5
PLN	60.39		PcP	12:59:34.705						T__				m_e		
RETH	60.98		P	12:58:53.296	0.1	63.5		6.79		TAS				a_e		
RJOB	61.22		P	12:58:55.123		63.5		6.79		TAS		12.5	0.78	m_e	mb	4.8
ROTZ	60.68		P	12:58:51.296	0.2	63.5		6.79		TAS		5.3	0.92	m_e	mb	4.4
RUE	58.65		P	12:58:36.846	-0.7	63.5		6.79		TAS		41.5	0.82	a_e	mb	5.5
STU	62.89		P	12:59:05.646	0.5	63.5		6.79		TAS		39.2	0.68	a_e	mb	5.7
TANN	60.25		P	12:58:48.096	0.2	63.5		6.79		TAS		14.7	0.94	a_e	mb	5.0
TNS	62.64		P	12:59:04.296	0.1	63.5		6.79		TAS		9.9	0.87	a_e	mb	5.0
TNS	62.64		PcP	12:59:43.918						T__				m_e		
UBR	62.86		P	12:59:05.746		63.5		6.79		TAS		38.6	0.99	a_e	mb	5.5
WET	60.55		P	12:58:50.446	-0.8	63.5		6.79		TAS		18.2	1.12	a_e	mb	4.8
WLF	64.21		P	12:59:15.096	0.1	63.5		6.79		TAS		53.2	1.16	a_e	mb	5.7

Event 90916006 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/16	16:55:41.53			27.0650	56.7820				33.0					41.44	41.44	m i ke	BGR
90916012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.1		BGR	90916012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	41.44		P	17:03:24.875		111.6		8.97		TAS		2.8	0.79	m_e	mb	4.1

Event 90916008 Southern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/16	22:39:26.90	2.62	1.39	39.6600	15.8600	66.7	52.3	151	273.0			10	341	6.91	10.56	m i ke	INGV

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BE1	8.90		Pn	22:41:32.583	-0.4					T__		10.0	0.74	m_e	
DAVA	8.77		Pn	22:41:31.187	0.0					T__		2.9	0.69	m_e	
GEC2	9.31		Pn	22:41:37.004	-1.4					T__		3.2	0.59	m_e	
GRA1	10.56		Pn	22:41:52.075	-3.0					T__				m_e	
MOA	8.27		Pn	22:41:24.674	0.3					T__		4.2	1.08	m_e	
OBKA	6.91		Pn	22:41:07.422	1.2					T__		2.5	0.75	m_e	
RJOB	8.37		Pn	22:41:27.087	1.2					T__		2.6	0.60	m_e	
UBR	9.03		Pn	22:41:33.979	-0.7					T__		5.4	0.74	m_e	
WTTA	8.20		Pn	22:41:25.608	2.1					T__		2.2	0.56	m_e	
ZUGS	8.52		Pn	22:41:28.693	0.8					T__				m_e	

Event 90917001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/16	23:45:15.10			-16.4400	-174.3200				193.0					146.53	146.53	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.53		PKP	00:04:33.696		9.7		1.94		TAS				m_e	

Event 90917002 Central Alaska, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/17	01:09:57.08			62.8700	-150.2100				33.0			28		63.57	68.91	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb	5.8		BGR	90917008
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Ms 4.0 BGR 90917008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	64.36		P	01:20:29.934	-0.2	351.0		6.41		TAS		65.3	1.10	a_e	mb 5.8
BFO	67.84		P	01:20:52.184	-0.2	351.0		6.41		TAS		51.2	1.13	a_e	mb 5.7
BUG	64.66		P	01:20:31.734	0.0	351.0		6.41		TAS		80.2	0.85	a_e	mb 6.0
CLL	65.40		P	01:20:36.334	-0.0	351.0		6.41		TAS		59.7	0.98	a_e	mb 5.8
CLZ	64.61		P	01:20:32.084	0.7	351.0		6.41		TAS		107.0	0.87	a_e	mb 6.1
FLT1	64.22		P	01:20:28.484	-0.2	351.0		6.41		TAS		53.7	1.05	a_e	mb 5.7
FUR	68.34		P	01:20:55.334		351.0		6.41		TAS		100.8	0.86	a_e	mb 6.1
GEC2	67.90		P	01:20:52.684	0.5	351.0		6.41		TAS		42.9	0.98	a_e	mb 5.6
GOR1	63.57		P	01:20:25.184	0.1	351.0		6.41		TAS		49.4	1.08	a_e	mb 5.6
GRA1	66.82		P	01:20:46.084	0.2	351.0		6.41		TAS		48.4	0.90	a_e	mb 5.7
GRA1	66.82		L	01:49:21.425						T__		82.4	21.60	a_e	Ms 3.9
GTTG	64.86		P	01:20:33.978	-0.2	351.0		6.41		TAS		139.8	0.95	m_e	mb 6.2
IBBN	63.86		P	01:20:26.984	0.5	351.0		6.41		TAS		90.4	0.90	a_e	mb 6.0
KAST	65.03		P	01:20:34.384	-0.4	351.0		6.41		TAS		34.6	0.99	a_e	mb 5.5
MANZ	66.62		P	01:20:44.484	-0.2	351.0		6.41		TAS		11.7	1.12	a_e	mb 5.0
MOX	65.92		P	01:20:40.084	-0.1	351.0		6.41		TAS		95.9	0.91	a_e	mb 6.0
MOX	65.92		L	01:49:31.199						T__		87.9	18.90	a_e	Ms 4.0
NEUB	65.39		P	01:20:36.534	-0.6	351.0		6.41		TAS		120.1	1.02	a_e	mb 6.1
PLN	66.13		P	01:20:41.384	-0.1	351.0		6.41		TAS		23.3	0.95	a_e	mb 5.4
RETH	63.62		P	01:20:25.284	-0.7	351.0		6.41		TAS		37.7	1.10	a_e	mb 5.4
RJOB	68.91		P	01:20:59.784		351.0		6.41		TAS		57.5	0.79	a_e	mb 5.9
ROTZ	66.85		P	01:20:46.134	-0.2	351.0		6.41		TAS		14.7	0.92	a_e	mb 5.2
RUE	64.31		P	01:20:30.137	0.3	351.0		6.41		TAS		157.7	0.95	m_e	mb 6.2
STU	67.51		P	01:20:50.134	-0.1	351.0		6.41		TAS		85.1	1.03	a_e	mb 5.9
TANN	66.23		P	01:20:42.184	0.1	351.0		6.41		TAS		63.7	1.07	a_e	mb 5.8
TNS	65.99		P	01:20:40.634	0.1	351.0		6.41		TAS		40.7	0.84	m_e	mb 5.7
UBBA	65.58		P	01:20:37.334	0.1	351.0		6.41		TAS		21.2	0.86	a_e	mb 5.4
UBR	68.69		P	01:20:57.684		351.0		6.41		TAS		50.4	0.89	a_e	mb 5.8
WET	67.53		P	01:20:50.634	-0.3	351.0		6.41		TAS		64.0	1.13	a_e	mb 5.8
WLF	66.26		P	01:20:42.634	0.2	351.0		6.41		TAS		91.6	1.00	a_e	mb 6.0

Event 90917003 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/17	08:25:53.50			-25.2900	-179.0500				412.0			13		151.16	156.51	m i ke	EMSC
OrigID 90917035																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	152.20		PKPbc	08:45:00.780	0.3	20.0		2.03		TAS				m_e	
BFO	156.28		PKPab	08:45:28.849		18.7		4.30		TAS				m_e	
CLL	152.43		PKPbc	08:45:01.055	0.2	20.0		2.03		TAS				m_e	

CLL	152.43	PKPab	08:45:12.650	-0.1	18.7	4.30	TAS	m_e
CLZ	152.53	PKPdf	08:44:53.697	0.2	28.4	1.23	TAS	m_e
CLZ	152.53	PKPbc	08:45:01.536	0.2	20.0	2.03	TAS	m_e
FLT1	151.89	PKPdf	08:44:52.322	0.2	28.4	1.23	TAS	m_e
FLT1	151.89	PKPbc	08:44:59.611	-0.4	20.0	2.03	TAS	m_e
FLT1	151.89	PKPab	08:45:10.043	0.4	18.7	4.30	TAS	m_e
FUR	155.76	PKPab	08:45:27.565		18.7	4.30	TAS	m_e
GEC2	154.45	PKPdf	08:44:56.134		28.4	1.23	TAS	m_e
GEC2	154.45	PKPbc	08:45:05.477		20.0	2.03	TAS	m_e
GEC2	154.45	PKPab	08:45:21.825		18.7	4.30	TAS	m_e
GOR1	151.26	PKPbc	08:44:58.771	-0.0	20.0	2.03	TAS	m_e
GRA1	154.36	PKPab	08:45:21.547		18.7	4.30	TAS	m_e
GTTG	152.89	PKPdf	08:44:54.041	-0.1	28.4	1.23	TAS	m_e
GTTG	152.89	PKPab	08:45:14.702	0.5	18.7	4.30	TAS	m_e
IBBN	152.53	PKPbc	08:45:00.992	-0.1	20.0	2.03	TAS	m_e
IBBN	152.53	PKPab	08:45:13.147	0.0	18.7	4.30	TAS	m_e
KAST	153.50	PKPbc	08:45:03.530	-0.2	20.0	2.03	TAS	m_e
MANZ	153.87	PKPdf	08:44:55.632		28.4	1.23	TAS	m_e
MANZ	153.87	PKPbc	08:45:03.816		20.0	2.03	TAS	m_e
MANZ	153.87	PKPab	08:45:18.923		18.7	4.30	TAS	m_e
MOX	153.38	PKPdf	08:44:55.042		28.4	1.23	TAS	m_e
MOX	153.38	PKPbc	08:45:03.187	-0.1	20.0	2.03	TAS	m_e
MOX	153.38	PKPab	08:45:16.806	0.3	18.7	4.30	TAS	m_e
NEUB	152.84	PKPbc	08:45:02.086	-0.2	20.0	2.03	TAS	m_e
NEUB	152.84	PKPab	08:45:14.866	-0.2	18.7	4.30	TAS	m_e
PLN	153.40	PKPdf	08:44:54.864		28.4	1.23	TAS	m_e
PLN	153.40	PKPbc	08:45:03.118	0.0	20.0	2.03	TAS	m_e
PLN	153.40	PKPab	08:45:17.004	0.1	18.7	4.30	TAS	m_e
RETH	151.86	PKPbc	08:44:59.931	0.2	20.0	2.03	TAS	m_e
RETH	151.86	PKPab	08:45:10.109	0.1	18.7	4.30	TAS	m_e
RJOB	155.72	PKPab	08:45:27.567		18.7	4.30	TAS	m_e
ROTZ	154.04	PKPdf	08:44:55.884		28.4	1.23	TAS	m_e
ROTZ	154.04	PKPbc	08:45:04.318		20.0	2.03	TAS	m_e
ROTZ	154.04	PKPab	08:45:19.656		18.7	4.30	TAS	m_e
RUE	151.16	PKPbc	08:44:58.518	-0.3	20.0	2.03	TAS	m_e
TANN	153.38	PKPdf	08:44:54.958		28.4	1.23	TAS	m_e
TANN	153.38	PKPbc	08:45:02.885		20.0	2.03	TAS	m_e
TANN	153.38	PKPab	08:45:17.281	-0.3	18.7	4.30	TAS	m_e
TNS	154.44	PKPdf	08:44:56.791		28.4	1.23	TAS	m_e
UBBA	153.58	PKPdf	08:44:55.199		28.4	1.23	TAS	m_e
UBBA	153.58	PKPbc	08:45:03.352		20.0	2.03	TAS	m_e
UBR	156.51	PKPdf	08:44:58.731		28.4	1.23	TAS	m_e
WET	154.43	PKPdf	08:44:56.085		28.4	1.23	TAS	m_e
WET	154.43	PKPab	08:45:21.565		18.7	4.30	TAS	m_e
WLF	155.33	PKPab	08:45:25.184		18.7	4.30	TAS	m_e

Event 90917004 Azores Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/17	13:51:33.10			36.2400	-33.9700				10.0			13		35.16	35.16	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	90917010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	35.16		P	13:58:25.031		264.9		8.83		TAS		12.2	1.16	m_e mb	4.7

Event 90917005 Iran-Iraq border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/17	19:30:00.80			35.0100	46.5800				88.0					29.65	29.65	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	90917011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	29.65		P	19:35:58.646		106.2		9.74		TAS		7.6	0.80	m_e mb	4.6

Event 90918001 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/18	02:54:26.33			44.8380	148.3630				33.0			27		75.82	80.84	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90918007
Ms	4.3		BGR	90918007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	76.77		P	03:06:12.696	-0.3	29.5		5.52		TAS		21.2	1.01	a_e mb	5.2
BFO	80.82		P	03:06:34.796		29.5		5.52		TAS		26.4	0.93	a_e mb	5.3
BUG	78.37		P	03:06:21.496	0.4	29.5		5.52		TAS		18.5	0.71	a_e mb	5.3
CLL	76.75		P	03:06:12.146	0.4	29.5		5.52		TAS		29.4	0.59	a_e mb	5.6
CLZ	77.11		P	03:06:15.046	0.2	29.5		5.52		TAS		22.2	0.62	a_e mb	5.5
FLT1	76.42		P	03:06:10.246	-0.5	29.5		5.52		TAS		19.8	0.54	a_e mb	5.5
FUR	80.03		P	03:06:30.946	-0.4	29.5		5.52		TAS		54.4	0.99	a_e mb	5.4
GEC2	78.63		P	03:06:22.896	0.1	29.5		5.52		TAS		13.1	0.60	a_e mb	5.1

GOR1	75.82	P	03:06:07.846	0.1	29.5	5.52	TAS	14.2	0.75	a_e	mb	5.2
GRA1	78.72	P	03:06:23.946	0.1	29.5	5.52	TAS	58.9	0.95	a_e	mb	5.6
GRA1	78.72	L	03:43:33.909				T__	102.8	20.80	a_e	Ms	4.1
GTTG	77.49	P	03:06:16.946	-0.1	29.5	5.52	TAS	33.5	1.04	a_e	mb	5.4
IBBN	77.46	P	03:06:16.449	-0.0	29.5	5.52	TAS	36.4	0.73	m_e	mb	5.6
KAST	78.25	P	03:06:21.096	-0.2	29.5	5.52	TAS	20.8	0.93	a_e	mb	5.2
MANZ	78.18	P	03:06:20.546	-0.1	29.5	5.52	TAS	2.3	0.66	a_e	mb	4.4
MOX	77.76	P	03:06:18.196	0.2	29.5	5.52	TAS	12.2	0.72	a_e	mb	5.1
MOX	77.76	L	03:44:59.009				T__	184.8	18.20	a_e	Ms	4.5
NEUB	77.24	P	03:06:15.096	-0.1	29.5	5.52	TAS	24.1	0.73	a_e	mb	5.4
PLN	77.73	P	03:06:18.046	-0.0	29.5	5.52	TAS	3.7	0.67	a_e	mb	4.7
RETH	76.62	P	03:06:11.996	-0.1	29.5	5.52	TAS	24.9	1.09	a_e	mb	5.3
RJOB	79.89	P	03:06:30.346	-0.4	29.5	5.52	TAS	20.2	0.85	a_e	mb	5.1
ROTZ	78.33	P	03:06:21.696	0.4	29.5	5.52	TAS	3.5	0.80	a_e	mb	4.5
STU	80.17	P	03:06:31.346		29.5	5.52	TAS	80.4	0.82	a_e	mb	5.7
TANN	77.69	P	03:06:17.827	0.2	29.5	5.52	TAS	5.6	0.75	m_e	mb	4.8
TNS	79.11	P	03:06:25.796	-0.2	29.5	5.52	TAS	28.9	1.03	a_e	mb	5.2
UBBA	78.12	P	03:06:20.453	0.2	29.5	5.52	TAS	11.0	0.61	m_e	mb	5.2
UBR	80.84	P	03:06:34.894		29.5	5.52	TAS	11.5	0.79	m_e	mb	5.0
WET	78.65	P	03:06:23.546	0.3	29.5	5.52	TAS	38.3	1.09	m_e	mb	5.3

Event 90919002 Jawa, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	07:32:00.80			-6.0300	111.8500				612.0					101.45	101.45	m i ke	EMSC
OrigID 90919034																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	101.45		Pdiff	07:44:47.554						T__				m_e	
GRA1	101.45		PP	07:49:03.248		85.8		7.42		TAS				m_e	

Event 90919004 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/19	16:02:26.10			-22.8900	-174.9400				10.0					151.83	152.81	m i ke	EMSC
OrigID 90919036																	

Magnitude Err Nsta Author OrigID

Ms	4.7		BGR	90919010
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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MORC	8.51	Pn	14:06:30.434	1.0	T__	m_e ML	5.7
MOX	10.74	Pn	14:06:58.596	-1.0	T__	m_e	
OBKA	6.22	Pn	14:05:58.562	-0.0	T__	m_e ML	5.5
PLN	10.42	Pn	14:06:55.004	-0.2	T__	m_e	
PLONS	9.17	Pn	14:06:38.577	0.2	T__	m_e	
PRU	9.27	Pn	14:06:39.740	0.0	T__	m_e	
PSZ	6.56	Pn	14:06:01.819	-1.3	T__	m_e ML	5.4
RJOB	7.93	Pn	14:06:22.395	0.8	T__	m_e ML	5.5
ROTZ	9.80	Pn	14:06:46.183	-0.7	T__	m_e	
STU	10.34	Pn	14:06:54.000	-0.2	T__	m_e	
SULZ	10.15	Pn	14:06:51.140	-0.6	T__	m_e	
TANN	10.26	Pn	14:06:53.866	0.8	T__	m_e	
TIRR	7.29	Pn	14:06:12.520	-0.5	T__	m_e ML	6.1
TNS	11.69	Pn	14:07:12.326	-0.1	T__	m_e	
UBR	9.16	Pn	14:06:37.934	-0.3	T__	m_e	
VRAC	8.18	Pn	14:06:25.084	0.0	T__	m_e ML	5.2
WET	9.03	Pn	14:06:35.277	-1.3	T__	m_e	
WILA	9.64	Pn	14:06:45.091	0.3	T__	m_e	
WLF	12.45	Pn	14:07:25.073	2.4	T__	m_e	
WTTA	8.11	Pn	14:06:25.084	1.0	T__	m_e ML	5.7

Event 90921005 Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	14:15:53.39	0.56	0.89	41.1990	19.3120	10.0	5.6	5	10.0			40	249	6.33	12.52	m i ke	BGR
OrigID 90921011																	

Magnitude	Err	Nsta	Author	OrigID
ML	5.1		BGR	90921011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	6.63		Pn	14:17:29.452	-0.7					T__				m_e ML	4.9
BALST	10.34		Pn	14:18:20.047	-0.1					T__				m_e	
BFO	10.57		Pn	14:18:22.937	-0.3					T__				m_e	
BRG	10.37		Pn	14:18:20.223	-0.3					T__				m_e	
CKRC	8.40		Pn	14:17:54.315	0.3					T__				m_e ML	5.3
CLL	11.01		Pn	14:18:28.074	-1.1					T__				m_e	
CLZ	12.29		Pn	14:18:45.463	-0.9					T__				m_e	
DAVA	9.10		Pn	14:18:04.653	1.3					T__				m_e	
DPC	9.38		Pn	14:18:07.752	0.6					T__				m_e	
GEC2	8.61		Pn	14:17:56.566	-0.3					T__				m_e ML	5.0
GRA1	10.21		Pn	14:18:17.322	-1.1					T__				m_e	
JAVC	7.75		Pn	14:17:46.204	1.1					T__				m_e ML	5.0
KAST	12.52		Pn	14:18:48.747	-0.8					T__				m_e	
KBA	7.28		Sn	14:18:57.103	-1.2					T__				m_e	
KBA	7.28		Pn	14:17:38.832	0.1					T__				m_e ML	5.2

KHC	8.90	Pn	14:18:00.469	-0.3	T__	m_e	ML	4.9
KRUC	8.13	Pn	14:17:50.870	0.6	T__	m_e	ML	4.7
MANZ	10.13	Pn	14:18:16.587	-0.7	T__	m_e		
MLR	6.46	Sn	14:18:40.119	1.1	T__	m_e		
MLR	6.46	Pn	14:17:28.302	0.5	T__	m_e	ML	5.2
MOA	7.56	Sn	14:19:05.041	-0.0	T__	m_e		
MOA	7.56	Pn	14:17:43.141	0.5	T__	m_e	ML	5.2
MORC	8.67	Pn	14:17:58.047	0.5	T__	m_e	ML	5.4
MOX	10.85	Pn	14:18:26.392	-0.7	T__	m_e		
OBKA	6.33	Sn	14:18:35.912	0.2	T__	m_e		
OBKA	6.33	Pn	14:17:26.089	0.1	T__	m_e	ML	5.4
OKC	8.68	Pn	14:17:58.920	1.2	T__	m_e	ML	4.6
PLN	10.54	Pn	14:18:22.041	-0.8	T__	m_e		
PLONS	9.23	Pn	14:18:06.922	1.8	T__	m_e		
PRU	9.40	Pn	14:18:08.340	0.9	T__	m_e		
PSZ	6.73	Sn	14:18:45.561	0.2	T__	m_e		
PSZ	6.73	Pn	14:17:29.935	-1.5	T__	m_e	ML	5.2
RJOB	8.02	Sn	14:19:14.742	-1.3	T__	m_e		
RJOB	8.02	Pn	14:17:49.324	0.4	T__	m_e	ML	5.2
ROTZ	9.91	Pn	14:18:13.276	-1.1	T__	m_e		
SLE	10.14	Pn	14:18:17.771	0.4	T__	m_e		
STU	10.42	Pn	14:18:20.846	-0.4	T__	m_e		
SULZ	10.21	Pn	14:18:18.419	0.0	T__	m_e		
TANN	10.38	Pn	14:18:19.595	-1.1	T__	m_e		
TIRR	7.44	Pn	14:17:40.076	-0.9	T__	m_e	ML	5.4
TNS	11.78	Pn	14:18:38.854	-0.8	T__	m_e		
UBR	9.23	Pn	14:18:05.605	0.4	T__	m_e		
VRAC	8.33	Pn	14:17:53.060	0.0	T__	m_e	ML	4.7
WET	9.15	Pn	14:18:03.294	-0.8	T__	m_e		
WILA	9.70	Pn	14:18:13.114	1.6	T__	m_e		
WTTA	8.19	Sn	14:19:22.687	2.7	T__	m_e		
WTTA	8.19	Pn	14:17:51.726	0.6	T__	m_e	ML	5.6

Event 90921004 Banda Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	19:53:11.90			-6.5200	130.4200				60.0					113.61	113.61	m i ke	EMSC
	90921036																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	113.61		PKKPab	20:22:35.279						T__					m_e

Event 90921007 Southern Italy

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	19:55:48.30	1.87	1.78	40.5640	14.8460	61.2	17.8	0	10.0				45 270	5.95	12.03	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
ML 4.1			BGR	90921013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	6.70		Pn	19:57:28.705	2.8					T__				m_e	ML 3.9
BALST	8.51		Pn	19:57:50.056	-0.3					T__				m_e	ML 4.4
BFO	9.05		Pn	19:57:57.362	-0.3					T__				m_e	
BRG	10.33		Pn	19:58:13.329	-1.6					T__				m_e	
CKRC	8.26		Pn	19:57:47.572	0.6					T__				m_e	ML 4.1
CLL	10.82		Pn	19:58:20.067	-1.5					T__				m_e	
CLZ	11.69		Pn	19:58:30.361	-3.0					T__				m_e	
DAVA	7.61		Pn	19:57:40.739	2.5					T__				m_e	ML 4.1
FLT1	12.03		Pn	19:58:34.920	-2.9					T__				m_e	
FUR	8.02		Pn	19:57:44.760	1.1					T__				m_e	ML 4.5
GEC2	8.32		Pn	19:57:48.040	0.2					T__				m_e	ML 4.0
GRA1	9.48		Pn	19:58:01.879	-1.6					T__				m_e	
GTTG	11.49		Pn	19:58:28.642	-2.0					T__				m_e	
KAST	11.54		Pn	19:58:29.146	-2.1					T__				m_e	
KBA	6.60		Pn	19:57:28.097	3.5					T__				m_e	ML 3.9
KHC	8.61		Pn	19:57:51.680	-0.1					T__				m_e	ML 3.9
KRUC	8.57		Pn	19:57:51.567	0.4					T__				m_e	ML 3.9
MANZ	9.62		Pn	19:58:03.766	-1.5					T__				m_e	
MLR	9.50		Pn	19:58:02.960	-0.8					T__				m_e	
MOA	7.30		Pn	19:57:36.658	2.7					T__				m_e	ML 3.9
MORC	9.41		Pn	19:58:02.177	-0.3					T__				m_e	
MOX	10.33		Pn	19:58:12.964	-2.0					T__				m_e	
NEUB	10.84		Pn	19:58:19.847	-2.0					T__				m_e	
OBKA	5.95		Pn	19:57:19.680	3.9					T__				m_e	
OKC	9.56		Pn	19:58:03.938	-0.6					T__				m_e	
PLN	10.10		Pn	19:58:10.637	-1.2					T__				m_e	
PLONS	7.59		Pn	19:57:40.665	2.7					T__				m_e	ML 3.9
PRU	9.43		Pn	19:58:02.173	-0.6					T__				m_e	
PSZ	8.20		Pn	19:57:46.201	0.1					T__				m_e	ML 3.9
PVCC	9.97		Pn	19:58:09.144	-0.9					T__				m_e	
RJOB	7.32		Pn	19:57:36.433	2.1					T__				m_e	ML 4.0
ROTZ	9.39		Pn	19:58:00.813	-1.4					T__				m_e	
SLE	8.52		Pn	19:57:50.413	-0.1					T__				m_e	ML 4.8
SOP	7.22		Pn	19:57:35.281	2.3					T__				m_e	ML 4.2
SULZ	8.48		Pn	19:57:50.074	0.1					T__				m_e	ML 5.1
TANN	9.99		Pn	19:58:08.464	-1.9					T__				m_e	
TNS	10.65		Pn	19:58:18.365	-0.9					T__				m_e	
TREC	8.74		Pn	19:57:53.935	0.5					T__				m_e	

UBBA	10.80	Pn	19:58:19.833	-1.4	T__	m_e		
UBR	7.89	Pn	19:57:43.334	1.4	T__	m_e ML	4.2	
VRAC	8.83	Pn	19:57:54.770	0.1	T__	m_e ML	3.9	
WET	8.69	Pn	19:57:52.261	-0.6	T__	m_e ML	3.9	
WILA	8.07	Pn	19:57:45.564	1.1	T__	m_e ML	4.3	
WLF	10.97	Pn	19:58:22.681	-0.9	T__	m_e		
WTTA	7.09	Pn	19:57:35.132	4.0	T__	m_e ML	4.3	

Event 90921008 Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/21	22:07:33.47	0.48	0.99	41.3900	19.4860	8.9	5.6	19	10.0				31 247	6.23	11.71	m i ke	BGR
90921014																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.5		BGR	90921014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	6.51		Pn	22:09:08.488	-0.0					T__				m_e ML	4.2
BALST	10.32		Pn	22:09:59.426	-0.5					T__				m_e	
BFO	10.52		Pn	22:10:01.555	-1.1					T__				m_e	
BRG	10.23		Pn	22:09:59.595	0.8					T__				m_e	
CKRC	8.28		Pn	22:09:33.179	0.8					T__				m_e ML	4.4
DAVA	9.06		Pn	22:09:44.308	1.4					T__				m_e	
FUR	8.94		Sn	22:11:15.484	-2.3					T__				m_e	
FUR	8.94		Pn	22:09:40.612	-0.7					T__				m_e ML	5.1
GEC2	8.50		Sn	22:11:08.097	0.7					T__				m_e	
GEC2	8.50		Pn	22:09:35.163	-0.2					T__				m_e ML	4.4
KBA	7.19		Sn	22:10:35.356	-1.1					T__				m_e	
KBA	7.19		Pn	22:09:17.373	-0.4					T__				m_e ML	4.5
KHC	8.79		Pn	22:09:39.356	0.1					T__				m_e ML	4.3
KRUC	7.98		Sn	22:10:54.169	-0.8					T__				m_e ML	4.0
MANZ	10.02		Sn	22:11:42.026	-1.5					T__				m_e	
MANZ	10.02		Pn	22:09:55.944	0.0					T__				m_e	
MOA	7.45		Sn	22:10:43.883	1.3					T__				m_e	
MOA	7.45		Pn	22:09:22.186	0.9					T__				m_e ML	4.5
MOX	10.75		Pn	22:10:05.272	-0.4					T__				m_e	
OBKA	6.23		Sn	22:10:12.667	-1.0					T__				m_e	
OBKA	6.23		Pn	22:09:04.438	-0.4					T__				m_e ML	4.8
PLONS	9.20		Pn	22:09:45.318	0.5					T__				m_e	
PRU	9.27		Pn	22:09:46.822	1.1					T__				m_e	
PSZ	6.53		Sn	22:10:20.102	-0.6					T__				m_e	
PSZ	6.53		Pn	22:09:08.462	-0.4					T__				m_e ML	4.6
RJOB	7.94		Sn	22:10:55.621	1.5					T__				m_e	
RJOB	7.94		Pn	22:09:27.694	-0.1					T__				m_e ML	4.5
ROTZ	9.80		Pn	22:09:51.743	-1.2					T__				m_e	

SLE	10.10	Pn	22:09:56.613	-0.4	T__	m_e		
STU	10.36	Pn	22:09:59.630	-0.8	T__	m_e		
SULZ	10.18	Pn	22:09:57.860	-0.2	T__	m_e		
TANN	10.26	Pn	22:10:00.852	1.7	T__	m_e		
TIRR	7.23	Sn	22:10:37.127	-0.2	T__	m_e		
TIRR	7.23	Pn	22:09:18.031	-0.3	T__	m_e ML	4.7	
TNS	11.71	Pn	22:10:18.300	-0.4	T__	m_e		
UBR	9.18	Sn	22:11:22.388	-1.2	T__	m_e		
UBR	9.18	Pn	22:09:44.099	-0.5	T__	m_e		
VRAC	8.18	Pn	22:09:31.875	0.9	T__	m_e ML	3.9	
WET	9.04	Sn	22:11:22.794	2.5	T__	m_e		
WET	9.04	Pn	22:09:42.118	-0.6	T__	m_e		
WILA	9.67	Pn	22:09:51.322	0.1	T__	m_e		
WTTA	8.13	Sn	22:11:00.041	1.4	T__	m_e		
WTTA	8.13	Pn	22:09:31.914	1.5	T__	m_e ML	5.1	

Event 90922001 Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	00:28:11.52	0.67	1.13	41.2480	19.4640	12.2	7.8	6	10.0			15 266	6.35	10.61	m i ke	BGR
90922007																

Magnitude Err Nsta Author OrigID
 ML 4.0 BGR 90922007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	6.63		Pn	00:29:47.144	-1.1					T__				m_e ML	3.7
BFO	10.61		Pn	00:30:40.832	-1.1					T__				m_e	
DAVA	9.15		Sn	00:32:01.995	1.2					T__				m_e	
DAVA	9.15		Pn	00:30:23.588	1.4					T__				m_e	
GEC2	8.62		Sn	00:31:50.244	1.9					T__				m_e ML	3.9
KBA	7.30		Sn	00:31:15.516	-1.5					T__				m_e	
KBA	7.30		Pn	00:29:57.125	-0.1					T__				m_e ML	4.0
MLR	6.35		Sn	00:30:54.663	0.3					T__				m_e	
MLR	6.35		Pn	00:29:44.562	0.2					T__				m_e ML	3.7
MOA	7.57		Sn	00:31:21.215	-2.2					T__				m_e	
MOA	7.57		Pn	00:30:01.545	0.7					T__				m_e ML	4.0
OBKA	6.35		Sn	00:30:54.353	0.1					T__				m_e	
OBKA	6.35		Pn	00:29:44.096	-0.2					T__				m_e ML	4.3
PLONS	9.28		Sn	00:32:01.864	-2.1					T__				m_e	
PLONS	9.28		Pn	00:30:24.936	1.0					T__				m_e	
PSZ	6.68		Sn	00:31:02.520	0.3					T__				m_e	
PSZ	6.68		Pn	00:29:47.353	-1.5					T__				m_e ML	4.0
RJOB	8.05		Sn	00:31:36.171	1.4					T__				m_e	
RJOB	8.05		Pn	00:30:07.089	-0.2					T__				m_e ML	4.1
SLE	10.19		Pn	00:30:35.535	-0.7					T__				m_e	

./bul1909.txt

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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.61		PKPab	07:52:12.329		7.4		3.17		TAS					m_e

Event 90922007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	16:29:54.50			-18.0600	-178.2500				540.0					147.53	147.53	m i ke	EMSC

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.53		PKPbc	16:48:36.572		17.0		2.07		TAS					m_e

Event 90922008 Albania

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/22	20:08:42.32	0.82	0.93	41.1900	19.7340	16.7	8.9	19	10.0				10 252	6.24	9.47	m i ke	BGR

Magnitude Err Nsta Author OrigID
ML 4.1 BGR 90922014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	6.77		Pn	20:10:18.244	-1.2					T__				m_e ML	3.8
KBA	7.47		Sn	20:11:47.371	0.9					T__				m_e	
KBA	7.47		Pn	20:10:28.186	-0.7					T__				m_e ML	4.0
MLR	6.24		Pn	20:10:13.745	1.4					T__				m_e	
MOA	7.72		Pn	20:10:31.849	-0.4					T__				m_e ML	4.0
OBKA	6.50		Sn	20:11:23.563	-0.4					T__				m_e	
OBKA	6.50		Pn	20:10:14.908	-1.0					T__				m_e ML	4.2
PLONS	9.47		Pn	20:10:56.454	0.7					T__				m_e	
PSZ	6.73		Sn	20:11:28.722	-0.5					T__				m_e	
PSZ	6.73		Pn	20:10:17.462	-1.5					T__				m_e ML	4.2
RJOB	8.21		Sn	20:12:05.434	1.6					T__				m_e	
RJOB	8.21		Pn	20:10:39.011	0.1					T__				m_e ML	4.0
TIRR	7.17		Pn	20:10:25.377	0.5					T__				m_e ML	4.2
WTTA	8.40		Pn	20:10:41.890	0.4					T__				m_e ML	4.5

Event 90923005 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/23	17:51:15.71			52.4790	-167.0170				33.0					77.25	78.20	m i ke	BGR
OrigID 90923011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	90923011
Ms	4.8		BGR	90923011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.20		P	18:03:10.229		358.6		5.00		TAS		66.9	1.18	m_e	mb 5.7
GRA1	78.20		L	18:38:33.672						T__		408.3	19.90	a_e	Ms 4.8
MOX	77.25		L	18:41:51.647						T__		406.9	19.30	a_e	Ms 4.8

Event 90923006 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
2019/09/23	21:55:05.29			52.4030	159.5760				51.0					73.81	74.80	m i ke	BGR
OrigID 90923012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	90923012
Ms	4.7		BGR	90923012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	74.80		P	22:06:38.052		19.5		5.14		TAS		29.9	1.59	m_e	mb 5.1
GRA1	74.80		pP	22:06:52.568		19.9		5.09		TAS				m_e	
GRA1	74.80		L	22:44:57.176						T__		413.3	18.80	a_e	Ms 4.8
MOX	73.81		L	22:40:20.202						T__		308.4	21.80	a_e	Ms 4.5

Event 90924001 Mona Passage

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	03:23:40.08			18.9470	-67.2910				46.3					68.42	68.60	m i ke	BGR
OrigID 90924007																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.2		BGR	90924007
Ms	6.0		BGR	90924007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	68.42		P	03:34:36.525		268.5		6.67		TAS		309.2	2.03	m_e	mb 6.2
GRA1	68.42		pP	03:34:49.465		268.5		6.67		TAS				m_e	

GRA1	68.42	L	03:59:24.463	T__	8004.2	21.80	a_e Ms	5.9
MOX	68.60	L	04:00:03.854	T__	11117.8	21.00	a_e Ms	6.1

Event 90924003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	07:17:44.78			-20.7150	-177.8340				33.0					150.20	150.20	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
GRA1	150.20		PKPdf	07:37:28.083		17.2		1.62		TAS				m_e	
GRA1	150.20		PKPab	07:37:36.728		24.7		3.85		TAS				m_e	

Event 90924005 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	11:01:55.31			33.0660	73.9750				9.7					48.18	48.50	m i ke	BGR

Magnitude Err Nsta Author OrigID

mb	5.8		BGR	90924011
Ms	5.3		BGR	90924011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	48.50		P	11:10:37.427		93.7		6.71		TAS		92.7	1.04	m_e mb	5.8
GRA1	48.50		pP	11:10:39.908		93.7		6.71		TAS				m_e	
GRA1	48.50		L	11:33:13.546						T__		3549.2	18.10	a_e Ms	5.4
GRA3	48.43		P	11:12:26.188		93.7		6.71		TAS				m_e	
MOX	48.18		L	11:32:44.746						T__		2795.6	21.20	a_e Ms	5.2

Event 90924007 North Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	13:38:16.65	0.59	1.04	56.9880	1.8940	7.8	6.7	130	10.0				25 288	4.04	7.82	m i ke	BGR

Magnitude Err Nsta Author OrigID

ML	4.5		BGR	90924013
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	7.05		Sn	13:41:10.918	-0.1					T__				m_e	
ASSE	7.05		Pn	13:39:57.207	-0.4					T__				m_e ML	4.2
BUG	6.39		Sn	13:40:55.296	-0.2					T__				m_e	
BUG	6.39		Pn	13:39:48.159	-0.5					T__				m_e ML	4.5
CLZ	7.14		Sn	13:41:15.074	2.0					T__				m_e	
CLZ	7.14		Pn	13:39:58.024	-0.8					T__				m_e ML	4.4
COP	6.01		Sn	13:40:46.995	0.4					T__				m_e ML	5.2
FALKS	7.63		Sn	13:41:24.408	-0.1					T__				m_e	
FALKS	7.63		Pn	13:40:04.261	-1.1					T__				m_e ML	4.4
FLT1	7.15		Sn	13:41:11.634	-1.6					T__				m_e	
FLT1	7.15		Pn	13:39:57.573	-1.3					T__				m_e ML	4.2
GOR1	6.73		Pn	13:39:52.229	-1.1					T__				m_e	
GTTG	7.21		Sn	13:41:16.794	2.1					T__				m_e	
GTTG	7.21		Pn	13:40:00.046	0.3					T__				m_e ML	4.7
HLG	4.41		Sn	13:40:08.192	-1.1					T__				m_e	
HLG	4.41		Pn	13:39:21.508	-0.5					T__				m_e ML	4.3
IBBN	5.79		Sn	13:40:42.099	0.5					T__				m_e	
IBBN	5.79		Pn	13:39:41.325	0.7					T__				m_e ML	4.4
KAST	6.95		Sn	13:41:08.338	-0.2					T__				m_e	
KAST	6.95		Pn	13:39:56.665	0.5					T__				m_e ML	4.5
KHUS	5.90		Sn	13:40:43.747	-0.3					T__				m_e	
KHUS	5.90		Pn	13:39:43.344	1.3					T__				m_e ML	4.8
LOCC	6.22		Sn	13:40:51.785	0.3					T__				m_e	
LOCC	6.22		Pn	13:39:46.074	-0.2					T__				m_e	
LUEB	6.14		Sn	13:40:47.414	-2.3					T__				m_e	
LUEB	6.14		Pn	13:39:45.013	-0.2					T__				m_e ML	4.4
MEM	6.84		Sn	13:41:07.263	1.2					T__				m_e	
MEM	6.84		Pn	13:39:54.541	-0.1					T__				m_e ML	4.7
MUD	4.04		Sn	13:40:02.984	2.2					T__				m_e	
MUD	4.04		Pn	13:39:16.606	-0.4					T__				m_e ML	4.3
RCHB	7.13		Sn	13:41:12.064	-0.7					T__				m_e	
RCHB	7.13		Pn	13:39:58.917	0.3					T__				m_e ML	4.5
RETH	6.06		Pn	13:39:43.784	-0.4					T__				m_e	
RGN	6.90		Sn	13:41:06.761	-0.6					T__				m_e ML	4.9
SEVE	5.51		Sn	13:40:32.422	-2.5					T__				m_e ML	4.7
TNS	7.82		Sn	13:41:29.776	1.0					T__				m_e	
TNS	7.82		Pn	13:40:08.858	1.0					T__				m_e ML	4.6
UBBA	7.81		Sn	13:41:30.063	1.3					T__				m_e ML	4.2
UCC	6.37		Sn	13:40:54.795	-0.3					T__				m_e	
UCC	6.37		Pn	13:39:48.511	0.1					T__				m_e ML	3.8
WLF	7.77		Pn	13:40:08.473	1.3					T__				m_e ML	4.5
WTSB	5.79		Sn	13:40:41.883	0.4					T__				m_e ML	4.6

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	21:12:04.30			-34.1700	56.1900				33.0					92.53	93.16	m i ke	EMSC
OrigID 90924041																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	90924015
Ms	5.5		BGR	90924015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.53		P	21:25:11.599		144.1		5.36		TAS		28.4	1.16	m_e	mb 5.6
GRA1	92.53		L	22:20:49.627						T__		1965.0	19.00	a_e	Ms 5.6
MOX	93.16		L	22:15:28.595						T__		1485.6	21.90	a_e	Ms 5.4

Event 90924010 Southwest Indian Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/24	21:19:48.10			-33.8200	56.3000				15.0					92.26	92.89	m i ke	EMSC
OrigID 90924042																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	90924016
Ms	5.5		BGR	90924016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.26		P	21:32:57.115		143.8		5.28		TAS		84.5	1.40	m_e	mb 5.9
GRA1	92.26		L	22:20:49.618						T__		1965.0	19.00	a_e	Ms 5.6
MOX	92.89		L	22:15:28.640						T__		1485.6	21.90	a_e	Ms 5.4

Event 90925007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	01:02:04.70			-20.9800	-178.6900				592.0					150.29	150.29	m i ke	EMSC
OrigID 90925039																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	150.29		PKPbc	01:20:49.702		18.9		1.63		TAS				m_e	
GRA1	150.29		PKPab	01:20:58.996		18.9		3.77		TAS				m_e	

Event 90925008 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	13:04:41.40			-17.6700	-178.7400				542.0					147.06	147.06	m i ke	EMSC
OrigID 90925040																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.06		PKPbc	13:23:23.823		17.7		1.92		TAS				m_e	
GRA1	147.06		PKPab	13:23:27.315		17.7		3.67		TAS				m_e	

Event 90925006 Southern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/25	20:18:34.40			-40.6200	-16.8000				33.0					93.25	94.23	m i ke	EMSC
OrigID 90925038																	

Magnitude Err Nsta Author OrigID

mb	5.8		BGR	90925012
Ms	4.6		BGR	90925012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	93.25		P	20:31:45.313		201.0		4.80		TAS		72.0	1.89	m_e mb	5.8
GRA1	93.25		L	21:11:49.571						T__		203.1	21.00	a_e Ms	4.6
MOX	94.23		L	21:08:55.172						T__		247.7	20.60	a_e Ms	4.7

Event 90926007 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/26	10:59:28.54	3.93	1.14	40.7530	27.8530	86.7	35.6	139	10.0				28 339	11.00	17.95	m i ke	BGR
OrigID 90926013																	

Magnitude Err Nsta Author OrigID

Ms	5.3		BGR	90926013
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	11.00		P	11:02:04.566	-0.4					T__				m_e	
ASSE	16.37		P	11:03:18.629	2.1					T__				m_e	
BFO	15.82		P	11:03:08.357	-1.1					T__				m_e	
BRG	13.99		P	11:02:45.284	-0.1					T__				m_e	
CLL	14.73		P	11:02:54.451	-0.7					T__				m_e	

FLT1	157.63	PKPdf	12:24:52.542		20.5	1.31	TAS		m_e
FUR	161.52	PKPdf	12:24:57.128		20.5	1.31	TAS		m_e
FUR	161.52	PKPab	12:25:40.318	0.9	20.5	4.26	TAS		m_e
GEC2	160.20	PKPdf	12:24:54.857		20.5	1.31	TAS		m_e
GEC2	160.20	PKPab	12:25:34.097	0.4	20.5	4.26	TAS		m_e
GOR1	157.00	PKPdf	12:24:50.880		20.5	1.31	TAS		m_e
GOR1	157.00	PKPab	12:25:20.573	-0.1	20.5	4.26	TAS		m_e
GRA1	160.12	PKPdf	12:24:56.432		20.5	1.31	TAS		m_e
GRA1	160.12	PKPab	12:25:34.298	0.1	20.5	4.26	TAS		m_e
GRA1	160.12	L	13:38:21.739				T__	3263.4 21.80	a_e Ms 6.1
GTTG	158.62	PKPdf	12:24:54.789		20.5	1.31	TAS		m_e
GTTG	158.62	PKPab	12:25:27.378	-0.7	20.5	4.26	TAS		m_e
HLG	156.36	PKPab	12:25:19.496	0.8	20.5	4.26	TAS		m_e
IBBN	158.22	PKPdf	12:24:53.494		20.5	1.31	TAS		m_e
IBBN	158.22	PKPab	12:25:26.050	-0.4	20.5	4.26	TAS		m_e
KAST	159.21	PKPdf	12:24:54.304		20.5	1.31	TAS		m_e
KAST	159.21	PKPab	12:25:29.928	-0.3	20.5	4.26	TAS		m_e
MANZ	159.63	PKPdf	12:24:54.682		20.5	1.31	TAS		m_e
MANZ	159.63	PKPab	12:25:31.806	0.1	20.5	4.26	TAS		m_e
MOX	159.14	PKPdf	12:24:54.567		20.5	1.31	TAS		m_e
MOX	159.14	PKPab	12:25:29.616	-0.1	20.5	4.26	TAS		m_e
MOX	159.14	L	13:37:54.273				T__	3263.3 20.70	a_e Ms 6.2
NEUB	158.59	PKPdf	12:24:54.273		20.5	1.31	TAS		m_e
NEUB	158.59	PKPab	12:25:27.076	-0.3	20.5	4.26	TAS		m_e
PLN	159.15	PKPdf	12:24:53.168		20.5	1.31	TAS		m_e
PLN	159.15	PKPab	12:25:29.750	-0.2	20.5	4.26	TAS		m_e
RETH	157.58	PKPdf	12:24:51.593		20.5	1.31	TAS		m_e
RETH	157.58	PKPab	12:25:22.455	-0.9	20.5	4.26	TAS		m_e
RGN	155.12	PKPab	12:25:13.603	1.0	20.5	4.26	TAS		m_e
ROTZ	159.80	PKPdf	12:24:54.694		20.5	1.31	TAS		m_e
ROTZ	159.80	PKPab	12:25:32.765	-0.1	20.5	4.26	TAS		m_e
RUE	156.92	PKPdf	12:24:50.951		20.5	1.31	TAS		m_e
RUE	156.92	PKPab	12:25:20.810	0.5	20.5	4.26	TAS		m_e
STU	161.43	PKPdf	12:24:57.752		20.5	1.31	TAS		m_e
STU	161.43	PKPab	12:25:39.933	0.1	20.5	4.26	TAS		m_e
TANN	159.14	PKPdf	12:24:54.429		20.5	1.31	TAS		m_e
TANN	159.14	PKPab	12:25:29.634	-0.1	20.5	4.26	TAS		m_e
TNS	160.16	PKPdf	12:24:55.935		20.5	1.31	TAS		m_e
TNS	160.16	PKPab	12:25:34.170	-0.0	20.5	4.26	TAS		m_e
UBBA	159.31	PKPdf	12:24:55.128		20.5	1.31	TAS		m_e
UBBA	159.31	PKPab	12:25:30.354	-0.1	20.5	4.26	TAS		m_e
UBR	162.26	PKPdf	12:24:57.671		20.5	1.31	TAS		m_e
UBR	162.26	PKPab	12:25:43.913		20.5	4.26	TAS		m_e
WET	160.19	PKPdf	12:24:54.986		20.5	1.31	TAS		m_e
WET	160.19	PKPab	12:25:34.512	-0.6	20.5	4.26	TAS		m_e
WLF	161.00	PKPdf	12:24:57.329		20.5	1.31	TAS		m_e
WLF	161.00	PKPab	12:25:38.401	0.4	20.5	4.26	TAS		m_e

Event 90928001 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/28	04:07:58.35			-22.5900	-177.7300				222.0			23		148.87	153.53	m i ke	EMSC
	90928033																

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	149.81		PKPbc	04:27:21.783	0.1	16.5		2.35		TAS					m_e
ASSE	149.81		PKPab	04:27:27.751		16.5		4.20		TAS					m_e
BRG	150.34		PKPbc	04:27:22.894	0.4	16.5		2.35		TAS					m_e
BRG	150.34		PKPab	04:27:30.543		16.5		4.20		TAS					m_e
CLL	150.15		PKPbc	04:27:22.535	-0.0	16.5		2.35		TAS					m_e
CLL	150.15		PKPab	04:27:29.162		16.5		4.20		TAS					m_e
CLZ	150.13		PKPbc	04:27:22.698	-0.1	16.5		2.35		TAS					m_e
CLZ	150.13		PKPab	04:27:29.419		16.5		4.20		TAS					m_e
FLT1	149.52		PKPbc	04:27:20.477	-0.1	16.5		2.35		TAS					m_e
FLT1	149.52		PKPab	04:27:25.826		16.5		4.20		TAS					m_e
FUR	153.49		PKPab	04:27:43.235		16.5		4.20		TAS					m_e
GEC2	152.27		PKPbc	04:27:27.201		16.5		2.35		TAS					m_e
GEC2	152.27		PKPab	04:27:37.948		16.5		4.20		TAS					m_e
GOR1	148.87		PKPbc	04:27:19.529	-0.1	16.5		2.35		TAS					m_e
GTTG	150.49		PKPbc	04:27:23.123	0.1	16.5		2.35		TAS					m_e
GTTG	150.49		PKPab	04:27:30.779		16.5		4.20		TAS					m_e
IBBN	150.03		PKPbc	04:27:22.197	0.3	16.5		2.35		TAS					m_e
IBBN	150.03		PKPab	04:27:28.660		16.5		4.20		TAS					m_e
KAST	151.04		PKPbc	04:27:24.514	-0.1	16.5		2.35		TAS					m_e
KAST	151.04		PKPab	04:27:32.684		16.5		4.20		TAS					m_e
MANZ	151.58		PKPbc	04:27:25.872		16.5		2.35		TAS					m_e
MANZ	151.58		PKPab	04:27:34.525		16.5		4.20		TAS					m_e
MOX	151.06		PKPbc	04:27:24.429	0.1	16.5		2.35		TAS					m_e
MOX	151.06		PKPab	04:27:32.599		16.5		4.20		TAS					m_e
NEUB	150.51		PKPbc	04:27:23.274	0.2	16.5		2.35		TAS					m_e
NEUB	150.51		PKPab	04:27:30.612		16.5		4.20		TAS					m_e
PLN	151.10		PKPbc	04:27:24.821	-0.3	16.5		2.35		TAS					m_e
PLN	151.10		PKPab	04:27:32.888		16.5		4.20		TAS					m_e
RJOB	153.53		PKPab	04:27:43.923		16.5		4.20		TAS					m_e
ROTZ	151.77		PKPab	04:27:36.007		16.5		4.20		TAS					m_e
RUE	148.88		PKPbc	04:27:19.162	0.2	16.5		2.35		TAS					m_e
RUE	148.88		PKPab	04:27:23.641		16.5		4.20		TAS					m_e
STU	153.30		PKPab	04:27:42.416		16.5		4.20		TAS					m_e
TANN	151.10		PKPbc	04:27:25.004		16.5		2.35		TAS					m_e
TANN	151.10		PKPab	04:27:33.151		16.5		4.20		TAS					m_e
TNS	152.00		PKPbc	04:27:26.781		16.5		2.35		TAS					m_e
WET	152.20		PKPab	04:27:38.075		16.5		4.20		TAS					m_e
WLF	152.81		PKPab	04:27:40.371		16.5		4.20		TAS					m_e

Event 90928002 East of Lake Baykal, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/28	21:28:19.95			52.7500	114.6200				33.0			20		56.07	61.47	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	90928008
Ms	4.7		BGR	90928008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	57.66		P	21:38:05.803	0.8	43.9		6.97		TAS		74.4	1.58	m_e mb	5.5
BFO	61.47		P	21:38:32.662		43.9		6.97		TAS		52.9	1.68	m_e mb	5.1
BRG	57.12		P	21:38:00.967	-0.1	43.9		6.97		TAS		25.9	1.17	m_e mb	5.2
CLL	57.23		P	21:38:03.692	-1.4	43.9		6.97		TAS		24.3	1.03	m_e mb	5.2
CLZ	58.00		P	21:38:08.942	-1.1	43.9		6.97		TAS		105.2	1.74	m_e mb	5.6
FLT1	57.28		P	21:38:02.373	0.8	43.9		6.97		TAS		53.2	1.52	m_e mb	5.3
GEC2	58.67		P	21:38:13.099		43.9		6.97		TAS		22.2	1.25	m_e mb	5.0
GRA1	59.18		L	22:08:36.358						T__		545.1	18.00	a_e Ms	4.7
GTTG	58.39		P	21:38:11.652	0.5	43.9		6.97		TAS		107.5	1.70	m_e mb	5.6
MANZ	58.57		P	21:38:10.311	0.3	43.9		6.97		TAS		8.4	1.78	m_e mb	4.5
MOX	58.32		P	21:38:09.135	-0.5	43.9		6.97		TAS		76.4	1.67	m_e mb	5.5
MOX	58.32		L	22:04:43.076						T__		590.0	18.10	a_e Ms	4.7
NEUB	57.85		P	21:38:08.117	2.0	43.9		6.97		TAS		29.5	1.21	m_e mb	5.2
PLN	58.19		P	21:38:08.498	0.2	43.9		6.97		TAS		25.8	1.61	m_e mb	5.0
RETH	57.78		P	21:38:05.792	-0.1	43.9		6.97		TAS		48.6	1.29	m_e mb	5.4
ROTZ	58.69		P	21:38:12.518		43.9		6.97		TAS		9.2	1.42	m_e mb	4.6
RUE	56.07		P	21:37:55.782	0.7	43.9		6.97		TAS		65.0	1.27	m_e mb	5.5
STU	60.76		P	21:38:28.704	0.7	43.9		6.97		TAS				m_e	
TANN	58.11		P	21:38:10.995	0.4	43.9		6.97		TAS		112.8	2.34	m_e mb	5.5
TNS	60.01		P	21:38:22.233	0.2	43.9		6.97		TAS		20.0	1.15	m_e mb	5.0
UBBA	58.90		P	21:38:15.013	-1.9	43.9		6.97		TAS		30.4	1.38	m_e mb	5.1
UBR	61.16		P	21:38:30.578		43.9		6.97		TAS		28.2	1.27	m_e mb	4.9
WET	58.83		P	21:38:14.176		43.9		6.97		TAS		28.5	1.21	m_e mb	5.2

Event 90930001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/30	13:29:02.92			-18.8130	-179.1090				33.0			15		145.50	149.94	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	149.94		PKPbc	13:48:49.002		18.7		2.78		TAS				m_e	
BRG	146.37		PKPbc	13:48:39.510	0.3	18.7		2.78		TAS				m_e	
CLL	146.19		PKPbc	13:48:38.751	0.1	18.7		2.78		TAS				m_e	
CLZ	146.21		PKPbc	13:48:39.131	0.2	18.7		2.78		TAS				m_e	
FLT1	145.58		PKPbc	13:48:36.701	-0.1	18.7		2.78		TAS				m_e	
GEC2	148.30		PKPbc	13:48:44.826		18.7		2.78		TAS				m_e	
GRA1	148.10		PKPbc	13:48:44.674		18.7		2.78		TAS				m_e	
MANZ	147.63		PKPbc	13:48:43.307		18.7		2.78		TAS				m_e	
PLN	147.15		PKPbc	13:48:41.788	-0.4	18.7		2.78		TAS				m_e	
RETH	145.50		PKPbc	13:48:36.777	-0.5	18.7		2.78		TAS				m_e	
RJOB	149.56		PKPbc	13:48:47.787		18.7		2.78		TAS				m_e	
ROTZ	147.81		PKPbc	13:48:43.687		18.7		2.78		TAS				m_e	
TANN	147.15		PKPbc	13:48:41.788	-0.6	18.7		2.78		TAS				m_e	
TNS	148.09		PKPbc	13:48:44.370		18.7		2.78		TAS				m_e	
WLF	148.93		PKPbc	13:48:47.179		18.7		2.78		TAS				m_e	

Event 90930002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/30	13:38:25.52			-19.1100	-179.2100				33.0			19		145.78	150.51	m i ke	BGR
90930008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.22		PKPbc	13:58:13.377		19.0		2.75		TAS				m_e	
BRG	146.63		PKPbc	13:58:03.900	0.2	19.0		2.75		TAS				m_e	
CLL	146.45		PKPbc	13:58:03.134	0.1	19.0		2.75		TAS				m_e	
CLZ	146.48		PKPbc	13:58:03.552	0.2	19.0		2.75		TAS				m_e	
FLT1	145.85		PKPbc	13:58:01.043	-0.6	19.0		2.75		TAS				m_e	
GEC2	148.56		PKPbc	13:58:09.126	-0.3	19.0		2.75		TAS				m_e	
GTTG	146.83		PKPbc	13:58:04.597	-0.1	19.0		2.75		TAS				m_e	
IBBN	146.42		PKPbc	13:58:03.273	-0.2	19.0		2.75		TAS				m_e	
MANZ	147.89		PKPbc	13:58:07.454	0.1	19.0		2.75		TAS				m_e	
MOX	147.38		PKPbc	13:58:05.921	0.1	19.0		2.75		TAS				m_e	
PLN	147.41		PKPbc	13:58:06.060	0.2	19.0		2.75		TAS				m_e	
RETH	145.78		PKPbc	13:58:01.043	-0.5	19.0		2.75		TAS				m_e	
RJOB	149.81		PKPbc	13:58:12.123		19.0		2.75		TAS				m_e	
ROTZ	148.07		PKPbc	13:58:08.081	-0.0	19.0		2.75		TAS				m_e	
TANN	147.41		PKPbc	13:58:06.130	0.4	19.0		2.75		TAS				m_e	
TNS	148.36		PKPbc	13:58:08.778	0.5	19.0		2.75		TAS				m_e	
UBR	150.51		PKPbc	13:58:14.074		19.0		2.75		TAS				m_e	
WET	148.49		PKPbc	13:58:09.057	-0.5	19.0		2.75		TAS				m_e	
WLF	149.22		PKPbc	13:58:11.705	-0.3	19.0		2.75		TAS				m_e	

Event 90930003 Primorye, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2019/09/30	17:55:51.11			45.4200	134.4700				33.0			8		71.12	74.09	m i ke	BGR
OrigID 90930009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	90930009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	71.18		P	18:07:07.278	0.1	38.1		6.00		TAS		9.9	0.76	m_e mb	5.0
CLL	71.23		P	18:07:07.278	0.2	38.1		6.00		TAS		18.6	0.71	m_e mb	5.3
FLT1	71.12		P	18:07:06.508	-0.1	38.1		6.00		TAS		25.8	0.78	m_e mb	5.4
GEC2	72.85		P	18:07:16.910		38.1		6.00		TAS		5.4	0.80	m_e mb	4.7
GRA1	73.20		P	18:07:19.460		38.1		6.00		TAS		22.2	0.79	m_e mb	5.3
MANZ	72.61		P	18:07:15.638		38.1		6.00		TAS		1.4	0.89	m_e mb	4.1
RJOB	74.09		P	18:07:24.262		38.1		6.00		TAS		15.6	0.72	m_e mb	5.1
WET	72.96		P	18:07:17.858		38.1		6.00		TAS		6.7	0.70	m_e mb	4.9