

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

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

November 2020      UPDATED    22.MARCH 2022

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

Event	Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
1101002 Banda Sea	2020/11/01	03:43:20.40			-7.1210	129.1870				181.0			19		110.97	116.44	m i ke	NEIC

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

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	115.57		PKPdf	04:01:39.413		72.6		1.95		TAS					m_e
BRG	111.32		PKPdf	04:01:31.642	0.1	72.6		1.95		TAS					m_e
BSEG	112.49		PKPdf	04:01:34.816	0.5	72.6		1.95		TAS					m_e
BUG	115.11		PKPdf	04:01:39.913	0.0	72.6		1.95		TAS					m_e
CLL	111.77		PKPdf	04:01:31.940	0.4	72.6		1.95		TAS					m_e
CLZ	113.16		PKPdf	04:01:35.689	-0.0	72.6		1.95		TAS					m_e
FLT1	112.50		PKPdf	04:01:33.665	-0.7	72.6		1.95		TAS					m_e
FUR	113.75		PKPdf	04:01:35.987		72.6		1.95		TAS					m_e
GEC2	112.01		PKPdf	04:01:32.668		72.6		1.95		TAS					m_e
GRA1	113.33		PKPdf	04:01:35.508		72.6		1.95		TAS					m_e
IBBN	114.51		PKPdf	04:01:38.115	0.5	72.6		1.95		TAS					m_e
KAST	114.53		PKPdf	04:01:38.620	0.1	72.6		1.95		TAS					m_e
PLN	112.52		PKPdf	04:01:33.979	-0.2	72.6		1.95		TAS					m_e
RETH	113.44		PKPdf	04:01:36.412	-0.7	72.6		1.95		TAS					m_e
RUE	110.97		PKPdf	04:01:31.855	0.1	72.6		1.95		TAS					m_e
STU	114.88		PKPdf	04:01:38.073		72.6		1.95		TAS					m_e
TANN	112.35		PKPdf	04:01:34.057	0.1	72.6		1.95		TAS					m_e
UBR	114.64		PKPdf	04:01:37.562		72.6		1.95		TAS					m_e
WET	112.45		PKPdf	04:01:33.591		72.6		1.95		TAS					m_e
WLF	116.44		PKPdf	04:01:41.949		72.6		1.95		TAS					m_e

Event 1101003 Costa Rica  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/11/01 05:01:14.82 10.9900 -83.5400 76.6 24 81.52 86.53 m i ke BGR  
 1101009

Magnitude Err Nsta Author OrigID  
 mb 5.4 BGR 1101009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	83.98		P	05:13:36.052	0.6	280.5		5.09		TAS		27.0	1.05	m_e mb	5.4
BFO	83.12		P	05:13:30.505	-0.5	280.5		5.09		TAS		15.2	1.03	m_e mb	5.2
BRG	86.23		P	05:13:46.796	-0.1	280.5		5.09		TAS		15.4	0.97	m_e mb	5.1
BSEG	83.45		P	05:13:32.572	-0.2	280.5		5.09		TAS		14.6	0.90	m_e mb	5.2
BUG	82.00		P	05:13:25.112	-0.2	280.5		5.09		TAS		33.1	1.01	m_e mb	5.4
CLL	85.56		P	05:13:43.286	-0.2	280.5		5.09		TAS		23.7	0.86	m_e mb	5.3
CLL	85.56		pP	05:14:03.940						T__				m_e	
CLZ	83.85		P	05:13:35.180	0.4	280.5		5.09		TAS		34.4	0.97	m_e mb	5.5
FLT1	84.28		P	05:13:36.692	-0.3	280.5		5.09		TAS		19.6	0.89	m_e mb	5.3
FUR	85.09		P	05:13:41.053	0.1	280.5		5.09		TAS		65.4	1.60	m_e mb	5.6
GEC2	86.53		P	05:13:48.078	-0.3	280.5		5.09		TAS		45.1	1.46	m_e mb	5.4
GRA1	84.76		P	05:13:39.619	0.2	280.5		5.09		TAS		23.2	0.95	m_e mb	5.4
IBBN	82.18		P	05:13:26.282	-0.0	280.5		5.09		TAS		33.3	0.95	m_e mb	5.4
KAST	82.74		P	05:13:28.859	-0.3	280.5		5.09		TAS		8.7	0.86	m_e mb	5.0
MOX	84.83		P	05:13:39.184	-0.6	280.5		5.09		TAS		20.4	1.13	m_e mb	5.3
NEUB	84.82		P	05:13:39.765	0.0	280.5		5.09		TAS		19.1	0.85	m_e mb	5.3
PLN	85.20		P	05:13:41.668	0.0	280.5		5.09		TAS		10.9	0.94	m_e mb	5.1
RETH	83.08		P	05:13:31.099	0.2	280.5		5.09		TAS		40.0	1.26	m_e mb	5.5
RUE	85.78		P	05:13:44.745	0.1	280.5		5.09		TAS		36.0	1.15	m_e mb	5.4
STU	83.62		P	05:13:33.551	0.0	280.5		5.09		TAS		76.4	1.09	m_e mb	5.8
TANN	85.41		P	05:13:42.929	0.2	280.5		5.09		TAS		33.1	0.94	m_e mb	5.5
TNS	82.91		P	05:13:30.101	0.1	280.5		5.09		TAS		18.5	0.81	m_e mb	5.4
UBR	84.41		P	05:13:37.812	0.3	280.5		5.09		TAS		25.2	0.93	m_e mb	5.4
WET	85.93		P	05:13:45.493	0.2	280.5		5.09		TAS		40.7	1.05	m_e mb	5.5
WLF	81.52		P	05:13:23.025	0.2	280.5		5.09		TAS		45.5	1.11	m_e mb	5.5

Event 1101004 Northwestern Balkan Peninsula  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/11/01 13:15:41.88 1.03 0.94 44.2270 15.6500 21.1 11.1 105 10.0 23 311 2.41 8.46 m i ke BGR  
 1101010

Magnitude Err Nsta Author OrigID  
 ML 4.8 BGR 1101010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	3.02		Pn	13:16:29.005	0.4					T__				m_e	ML 4.3
BFO	6.52		Pn	13:17:14.817	-1.9					T__				m_e	ML 4.8
DAVA	5.06		Pn	13:16:57.658	0.2					T__				m_e	ML 5.0
FETA	4.44		Pn	13:16:48.075	0.0					T__				m_e	ML 4.6
GEC2	4.81		Sn	13:17:46.054						T__				m_e	ML 4.7
GRA1	6.25		Pn	13:17:13.254	0.3					T__				m_e	ML 5.1
KBA	3.28		Pn	13:16:32.298	0.2					T__				m_e	ML 4.6
LESA	3.81		Pn	13:16:39.268	-0.2					T__				m_e	ML 4.7
MOA	3.75		Sn	13:17:21.833	1.8					T__				m_e	
MOA	3.75		Pn	13:16:38.885	0.3					T__				m_e	ML 4.8
MOTA	4.45		Pn	13:16:48.487	0.2					T__				m_e	
MOX	6.97		Pn	13:17:21.691	-1.2					T__				m_e	ML 4.9
NORI	5.67		Pn	13:17:03.614	-1.4					T__				m_e	ML 5.0
OBER	4.91		Pn	13:16:54.694	0.1					T__				m_e	
OBKA	2.41		Pn	13:16:20.860	0.7					T__				m_e	
PART	4.55		Pn	13:16:50.738	1.1					T__				m_e	ML 4.9
RETA	4.72		Pn	13:16:53.317	1.4					T__				m_e	ML 4.8
ROTZ	6.02		Sn	13:18:12.715	-1.4					T__				m_e	
ROTZ	6.02		Pn	13:17:08.451	-1.3					T__				m_e	ML 4.8
STU	6.36		Pn	13:17:14.024	-0.5					T__				m_e	ML 5.3
TNS	7.74		Pn	13:17:32.800	-0.6					T__				m_e	ML 4.9
WET	5.27		Sn	13:17:55.590	-0.8					T__				m_e	
WET	5.27		Pn	13:16:58.863	-0.7					T__				m_e	ML 4.6
WLF	8.46		Pn	13:17:44.885	1.5					T__				m_e	ML 4.9
WTTA	4.13		Pn	13:16:44.305	0.4					T__				m_e	ML 5.0
ZUGS	4.56		Pn	13:16:50.326	0.6					T__				m_e	ML 4.3

Event 1101005 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/01	22:16:51.59			-20.9500	168.2880				33.0			22		144.95	149.29	m i ke	BGR
	1101011																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	149.29		PKPbc	22:36:37.115		40.6		3.07		TAS				m_e	
BFO	148.24		PKPbc	22:36:34.417		40.6		3.07		TAS				m_e	
DAVA	148.40		PKPbc	22:36:34.967		40.6		3.07		TAS				m_e	
FETA	148.22		PKPbc	22:36:34.618		40.6		3.07		TAS				m_e	
FUR	147.12		PKPbc	22:36:31.614		40.6		3.07		TAS				m_e	
KBA	146.93		PKPbc	22:36:30.369		40.6		3.07		TAS				m_e	
LESA	147.01		PKPbc	22:36:30.582		40.6		3.07		TAS				m_e	
MOTA	147.80		PKPbc	22:36:33.065		40.6		3.07		TAS				m_e	

MULD	144.95	PKPbc	22:36:24.249	40.6	3.07	TAS	m_e
OBKA	146.71	PKPbc	22:36:29.860	40.6	3.07	TAS	m_e
PLONS	148.80	PKPbc	22:36:35.942	40.6	3.07	TAS	m_e
RETA	147.85	PKPbc	22:36:33.213	40.6	3.07	TAS	m_e
ROTZ	145.51	PKPbc	22:36:25.550	40.6	3.07	TAS	m_e
SLE	148.63	PKPbc	22:36:35.371	40.6	3.07	TAS	m_e
SQTA	147.85	PKPbc	22:36:33.398	40.6	3.07	TAS	m_e
STU	147.54	PKPbc	22:36:32.766	40.6	3.07	TAS	m_e
SULZ	148.97	PKPbc	22:36:36.179	40.6	3.07	TAS	m_e
TNS	146.67	PKPbc	22:36:29.647	40.6	3.07	TAS	m_e
UBR	148.00	PKPbc	22:36:33.754	40.6	3.07	TAS	m_e
WERD	144.96	PKPbc	22:36:24.075	40.6	3.07	TAS	m_e
WLF	147.97	PKPbc	22:36:33.779	40.6	3.07	TAS	m_e
WTTA	147.62	PKPbc	22:36:32.618	40.6	3.07	TAS	m_e

Event 1101006 Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/01	23:09:33.40	1.26	2.65	38.8670	21.5920	123.4	40.0	50	17.0			15	341	9.22	16.92	m i ke	NOA
OrigID 1101075																	

Magnitude Err Nsta Author  
mb 4.5 BGR

OrigID  
1101012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	9.48		Pn	23:11:51.302	-5.3					T__					m_e
BIOA	10.54		Pn	23:12:05.378	-3.6					T__					m_e
BSEG	16.92		P	23:13:33.516						T__		53.6	1.49	m_e mb	4.5
CLL	13.82		Pn	23:13:00.152	4.3					T__					m_e
CLZ	15.15		P	23:13:14.400						T__		11.9	0.78	m_e	
FLT1	15.26		P	23:13:15.583						T__		14.2	0.76	m_e	
GEC2	11.47		Sn	23:14:25.164						T__					m_e
GEC2	11.47		Pn	23:12:21.892	-1.0					T__					m_e
KBA	10.18		Sn	23:13:53.752						T__					m_e
LESA	10.74		Pn	23:12:08.547	-1.6					T__					m_e
LESA	10.74		Sn	23:14:07.654	-0.7					T__					m_e
MOA	10.43		Sn	23:14:02.129						T__					m_e
MOTA	11.41		Sn	23:14:21.906						T__					m_e
MOTA	11.41		Pn	23:12:17.682	0.2					T__					m_e
MOX	13.72		Pn	23:12:51.777	-0.9					T__					m_e
NEUB	14.12		Pn	23:13:04.247	5.6					T__					m_e
OBKA	9.22		Pn	23:11:48.446	-2.4					T__					m_e
RETA	11.68		Sn	23:14:29.014	1.1					T__					m_e
RUE	14.64		Pn	23:13:08.895	0.5					T__					m_e
SQTA	11.27		Sn	23:14:17.951						T__					m_e
SQTA	11.27		Pn	23:12:15.663	0.1					T__					m_e

WTTA 11.10 Sn 23:14:12.832 T\_\_ m\_e  
 WTTA 11.10 Pn 23:12:13.485 -0.2 T\_\_ m\_e

Event 1103003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/03	08:18:57.95			-19.5820	-177.1400				399.7	6.5		25		145.15	151.27	m i ke	BGR
	1103009																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.86		PKPbc	08:37:52.699	-0.8	15.5		2.58		TAS					m_e
ASSE	146.86		pPKPbc	08:39:29.483	-0.8	15.1		2.82		TAS					m_e
BFO	150.89		PKPbc	08:38:03.227	-0.7	15.5		2.58		TAS					m_e
BFO	150.89		pPKPbc	08:39:40.748		15.1		2.82		TAS					m_e
BRG	147.49		PKPbc	08:37:55.773	0.7	15.5		2.58		TAS					m_e
BRG	147.49		pPKPbc	08:39:31.916	0.3	15.1		2.82		TAS					m_e
BSEG	145.15		PKPbc	08:37:48.414	-0.7	15.5		2.58		TAS					m_e
BUG	147.93		PKPbc	08:37:56.946	0.4	15.5		2.58		TAS					m_e
BUG	147.93		pPKPbc	08:39:33.388	0.3	15.1		2.82		TAS					m_e
CLL	147.26		PKPbc	08:37:54.322	-0.2	15.5		2.58		TAS					m_e
CLL	147.26		pPKPbc	08:39:30.038	0.5	15.1		2.82		TAS					m_e
CLZ	147.18		PKPbc	08:37:53.760	-0.6	15.5		2.58		TAS					m_e
CLZ	147.18		pPKPbc	08:39:29.840	0.3	15.1		2.82		TAS					m_e
FLT1	146.58		PKPbc	08:37:51.691	-1.1	15.5		2.58		TAS					m_e
FLT1	146.58		pPKPbc	08:39:28.741	0.3	15.1		2.82		TAS					m_e
FUR	150.60		PKPbc	08:38:02.977	-0.1	15.5		2.58		TAS					m_e
GEC2	149.45		PKPbc	08:38:00.168	-0.1	15.5		2.58		TAS					m_e
GRA1	149.14		PKPbc	08:37:59.413	0.1	15.5		2.58		TAS					m_e
GRA1	149.14		pPKPbc	08:39:36.766		15.1		2.82		TAS					m_e
GTTG	147.53		PKPbc	08:37:55.256	0.0	15.5		2.58		TAS					m_e
GTTG	147.53		pPKPbc	08:39:32.209	0.5	15.1		2.82		TAS					m_e
IBBN	147.03		PKPbc	08:37:54.902	0.7	15.5		2.58		TAS					m_e
IBBN	147.03		pPKPbc	08:39:30.753	-0.9	15.1		2.82		TAS					m_e
KAST	148.05		PKPbc	08:37:57.423	0.7	15.5		2.58		TAS					m_e
KAST	148.05		pPKPbc	08:39:33.736	-0.1	15.1		2.82		TAS					m_e
MOX	148.15		PKPbc	08:37:57.315	0.5	15.5		2.58		TAS					m_e
MOX	148.15		pPKPbc	08:39:33.739	0.6	15.1		2.82		TAS					m_e
NEUB	147.59		PKPbc	08:37:56.494	1.1	15.5		2.58		TAS					m_e
PLN	148.21		PKPbc	08:37:57.403	0.5	15.5		2.58		TAS					m_e
PLN	148.21		pPKPbc	08:39:33.893	0.6	15.1		2.82		TAS					m_e
RETH	146.44		PKPbc	08:37:51.874	-0.6	15.5		2.58		TAS					m_e
RETH	146.44		pPKPbc	08:39:28.269	-0.3	15.1		2.82		TAS					m_e
RUE	146.00		PKPbc	08:37:51.708	0.5	15.5		2.58		TAS					m_e
STU	150.34		PKPbc	08:38:02.577	0.1	15.5		2.58		TAS					m_e

TANN	148.22	PKPbc	08:37:57.037	0.1	15.5	2.58	TAS	m_e
TANN	148.22	pPKPbc	08:39:33.452	-0.5	15.1	2.82	TAS	m_e
TNS	149.01	PKPbc	08:37:59.473	0.3	15.5	2.58	TAS	m_e
UBR	151.27	PKPbc	08:38:04.457	-0.4	15.5	2.58	TAS	m_e
UBR	151.27	pPKPbc	08:39:41.557		15.1	2.82	TAS	m_e
WET	149.34	PKPbc	08:37:59.354	-0.6	15.5	2.58	TAS	m_e
WET	149.34	pPKPbc	08:39:37.381		15.1	2.82	TAS	m_e
WLF	149.78	PKPbc	08:38:01.561	0.2	15.5	2.58	TAS	m_e

Event 1103008 Jan Mayen Island region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/03	20:22:31.84	2.07	0.67	71.0860	-1.5770	54.5	38.9	74	10.0			25	346	17.97	25.81	m i k e	BGR
OrigID 1103014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1103014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	19.79		P	20:27:01.123	-0.2					T__					
BFO	23.27		P	20:27:37.723	-0.4					T__		69.5	1.09	m_e mb	5.1
BRG	21.46		P	20:27:18.975	-0.7					T__		93.3	1.08	m_e mb	5.0
BSEG	17.97		P	20:26:42.151	2.1					T__				m_e	
BUG	20.09		P	20:27:04.565	-0.3					T__		46.9	1.20	m_e mb	4.6
CLL	20.90		P	20:27:13.037	-0.7					T__		71.0	1.04	m_e mb	4.9
CLZ	20.03		P	20:27:04.093	-0.0					T__				m_e	
DAVA	24.46		P	20:27:49.595	0.0					T__		88.4	1.29	m_e mb	5.1
FLT1	19.66		P	20:26:59.789	-0.1					T__				m_e	
FUR	23.75		P	20:27:43.628	0.8					T__		223.3	1.67	m_e mb	5.4
GEC2	23.41		P	20:27:40.031	0.6					T__		73.5	1.31	m_e mb	5.0
GRA1	22.25		P	20:27:27.899	0.1					T__		99.3	1.24	m_e mb	5.1
KAST	20.44		P	20:27:07.839	-0.8					T__		39.6	1.07	m_e mb	4.6
KBA	25.08		P	20:27:55.469	0.0					T__		27.7	0.93	m_e mb	5.0
MOX	21.36		P	20:27:18.309	-0.3					T__		132.2	1.29	m_e mb	5.1
NEUB	20.84		P	20:27:12.545	-0.5					T__		104.3	0.95	m_e mb	5.1
OBKA	25.81		P	20:28:03.174	1.0					T__		31.5	1.11	m_e mb	4.8
PLN	21.59		P	20:27:20.527	-0.5					T__		30.3	1.02	m_e mb	4.7
RETH	19.03		P	20:26:53.009	0.4					T__				m_e	
STU	22.92		P	20:27:35.145	0.5					T__		82.5	0.95	m_e mb	5.2
TANN	21.70		P	20:27:21.107	-1.1					T__		64.5	1.11	m_e mb	5.0
TNS	21.41		P	20:27:18.731	-0.4					T__		41.6	1.04	m_e mb	4.7
UBR	24.10		P	20:27:46.325	0.2					T__		25.0	0.99	m_e mb	4.7
WET	23.00		P	20:27:35.591	0.2					T__		110.7	1.66	m_e mb	5.1
WLF	21.76		P	20:27:23.120	0.3					T__		45.4	1.15	m_e mb	4.8

Event 1103009 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/03	20:35:36.20			37.8650	26.4750				16.0					14.95	17.84	m i ke	NOA
OrigID 1103078																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.1		BGR	1103015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	15.75		P	20:39:26.548		131.5		11.08		TAS				m_e	
CLL	16.47		P	20:39:35.680		131.5		11.08		TAS		12.1	1.14	m_e	mb 3.9
GRA1	16.11		P	20:39:31.797		131.5		11.08		TAS		26.5	1.28	m_e	mb 4.2
MOX	16.58		P	20:39:37.392		131.5		11.08		TAS		18.9	1.37	m_e	mb 4.0
PLN	16.22		P	20:39:29.539		131.5		11.08		TAS				m_e	
TANN	16.04		P	20:39:30.741		131.5		11.08		TAS				m_e	
TNS	17.84		P	20:39:51.351		131.5		11.08		TAS		28.9	1.31	m_e	mb 4.2
UBR	15.48		P	20:39:20.420		131.5		11.08		TAS				m_e	
WET	14.95		P	20:39:14.993		131.5		11.08		TAS				m_e	

Event 1104002 South of Alaska

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/04	03:27:30.72			53.3000	-162.7700				34.6	1.0		24		72.85	79.08	m i ke	BGR
OrigID 1104008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1104008
Ms	4.3		BGR	1104008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	74.67		P	03:39:07.876	-0.1	356.4		5.66		TAS		24.8	1.00	m_e	mb 5.2
ASSE	74.67		pP	03:39:17.570	0.0	356.7		5.79		TAS				m_e	
BFO	78.33		P	03:39:28.404	-0.2	356.4		5.66		TAS		42.8	1.62	m_e	mb 5.3
BRG	76.03		P	03:39:15.527	-0.1	356.4		5.66		TAS		17.8	0.90	m_e	mb 5.2
BRG	76.03		pP	03:39:25.514		356.7		5.79		TAS				m_e	
BSEG	72.85		P	03:38:57.588	-0.0	356.4		5.66		TAS		17.7	0.67	m_e	mb 5.3
BUG	75.17		P	03:39:10.551	-0.1	356.4		5.66		TAS		28.0	0.94	m_e	mb 5.3
BUG	75.17		pP	03:39:20.512	-0.1	356.7		5.79		TAS				m_e	
CLL	75.57		P	03:39:12.666	-0.4	356.4		5.66		TAS		24.6	1.03	m_e	mb 5.3
CLL	75.57		pP	03:39:22.783	-0.1	356.7		5.79		TAS				m_e	
CLZ	74.94		P	03:39:09.804	0.3	356.4		5.66		TAS		25.5	0.86	m_e	mb 5.3
FLT1	74.49		P	03:39:06.445	-0.5	356.4		5.66		TAS		22.2	0.89	m_e	mb 5.2
FLT1	74.49		pP	03:39:16.426	0.1	356.7		5.79		TAS				m_e	

FUR	78.65	P	03:39:30.395	-0.1	356.4	5.66	TAS	48.6	1.33	m_e	mb	5.4
FUR	78.65	pP	03:39:40.600		356.7	5.79	TAS			m_e		
GEC2	78.05	P	03:39:27.160	0.1	356.4	5.66	TAS	10.9	0.84	m_e	mb	5.0
GEC2	78.05	pP	03:39:37.065		356.7	5.79	TAS			m_e		
GRA1	77.13	P	03:39:22.184	0.3	356.4	5.66	TAS	24.5	0.78	m_e	mb	5.4
GRA1	77.13	pP	03:39:31.950		356.7	5.79	TAS			m_e		
GRA1	77.13	L	04:05:24.133				T__	165.1	21.00	a_e	Ms	4.3
GTTG	75.22	P	03:39:11.297	0.3	356.4	5.66	TAS	38.1	0.92	m_e	mb	5.4
IBBN	74.34	P	03:39:06.009	0.0	356.4	5.66	TAS	81.7	1.22	m_e	mb	5.6
KAST	75.48	P	03:39:12.541	0.1	356.4	5.66	TAS	12.1	0.90	m_e	mb	5.0
KAST	75.48	pP	03:39:22.418	-0.1	356.7	5.79	TAS			m_e		
MOX	76.19	P	03:39:16.647	0.1	356.4	5.66	TAS	54.9	1.36	m_e	mb	5.5
MOX	76.19	pP	03:39:26.346		356.7	5.79	TAS			m_e		
MOX	76.19	L	04:05:16.095				T__	166.7	18.50	a_e	Ms	4.4
NEUB	75.65	P	03:39:13.350	-0.1	356.4	5.66	TAS	31.2	0.73	m_e	mb	5.5
PLN	76.37	P	03:39:17.518	-0.0	356.4	5.66	TAS	3.9	0.75	m_e	mb	4.6
RUE	74.42	P	03:39:06.569	0.1	356.4	5.66	TAS	48.1	0.87	m_e	mb	5.5
STU	77.94	P	03:39:26.266	-0.2	356.4	5.66	TAS	44.5	0.98	m_e	mb	5.6
TANN	76.45	P	03:39:18.140	0.1	356.4	5.66	TAS	8.2	0.93	m_e	mb	4.8
TNS	76.45	P	03:39:17.953	-0.1	356.4	5.66	TAS	13.6	0.73	m_e	mb	5.2
UBR	79.08	P	03:39:32.728	-0.2	356.4	5.66	TAS	10.4	1.05	m_e	mb	4.8
WET	77.73	P	03:39:25.543	0.3	356.4	5.66	TAS	43.5	1.57	m_e	mb	5.3
WLF	76.85	P	03:39:20.504	0.3	356.4	5.66	TAS	42.2	1.29	m_e	mb	5.4

Event 1104005 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/04	18:27:51.10			9.8480	126.0740				80.0			14		95.38	100.93	m i ke	NEIC
1104044																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1104011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	100.32		P	18:41:28.311		65.5		4.48		TAS		7.9	1.20	m_e	mb	5.2
BSEG	96.63		P	18:41:12.232	-0.1	65.5		4.48		TAS		12.0	0.93	m_e	mb	5.5
CLL	96.29		P	18:41:10.392	-0.1	65.5		4.48		TAS		24.9	2.00	m_e	mb	5.4
CLL	96.29		pP	18:41:33.175						T__				m_e		
CLZ	97.54		P	18:41:16.119	0.3	65.5		4.48		TAS		10.1	1.01	m_e	mb	5.5
GEC2	96.88		P	18:41:12.817	0.1	65.5		4.48		TAS		12.4	1.13	m_e	mb	5.4
GRA1	98.01		P	18:41:17.306		65.5		4.48		TAS		2.2	0.72	m_e	mb	5.0
IBBN	98.76		P	18:41:21.627		65.5		4.48		TAS		18.3	1.16	m_e	mb	5.7
KAST	98.92		P	18:41:22.435		65.5		4.48		TAS		15.2	1.34	m_e	mb	5.6
MOX	97.37		P	18:41:15.125	-0.0	65.5		4.48		TAS		6.0	1.13	m_e	mb	5.1
PLN	97.12		P	18:41:14.148	-0.7	65.5		4.48		TAS		3.1	1.12	m_e	mb	4.8
RUE	95.38		P	18:41:06.703	-0.0	65.5		4.48		TAS		20.4	1.07	m_e	mb	5.5



./bul2011.txt

Wed Mar 30 12:17:24 2022

9

TANN	96.98	P	18:41:13.350	-0.1	65.5	4.48	TAS	34.6	2.09	m_e	mb	5.6
WET	97.26	P	18:41:15.078	-0.1	65.5	4.48	TAS	27.0	1.77	m_e	mb	5.6
WLF	100.93	P	18:41:31.594		65.5	4.48	TAS	6.1	0.91	m_e	mb	5.1

Event 1105001 Tuva-Buryatia-Mongolia border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/05	03:01:35.66			49.3610	109.0890				33.0			18		56.47	61.11	m i ke	BGR
OrigID 1105007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1105007
Ms	4.4		BGR	1105007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	57.46		P	03:11:19.500	-0.0	49.1		6.96		TAS		8.9	1.05	m_e	mb	4.7
BFO	61.11		P	03:11:45.371		49.1		6.96		TAS		11.6	1.10	m_e	mb	4.6
BSEG	56.47		P	03:11:13.617	-0.7	49.1		6.96		TAS		11.8	0.92	m_e	mb	4.9
BUG	59.51		P	03:11:34.122		49.1		6.96		TAS		11.8	0.79	m_e	mb	5.0
CLL	56.87		P	03:11:15.412	-0.3	49.1		6.96		TAS		10.3	0.75	m_e	mb	4.9
FUR	59.76		P	03:11:36.685		49.1		6.96		TAS		18.0	0.77	m_e	mb	5.2
GEC2	58.10		P	03:11:24.591	0.4	49.1		6.96		TAS		9.0	1.11	m_e	mb	4.7
GRA1	58.78		P	03:11:29.695	-0.3	49.1		6.96		TAS		16.4	0.91	m_e	mb	5.1
GRA1	58.78		L	03:43:19.912						T__		258.5	18.20	a_e	Ms	4.4
GTTG	58.18		P	03:11:25.401	0.3	49.1		6.96		TAS		25.9	1.11	m_e	mb	5.2
IBBN	58.70		P	03:11:28.360	-0.1	49.1		6.96		TAS		11.1	0.57	m_e	mb	5.1
MOX	57.97		P	03:11:24.049	-0.1	49.1		6.96		TAS		13.8	0.89	m_e	mb	5.0
MOX	57.97		L	03:34:15.227						T__		272.6	20.50	a_e	Ms	4.3
NEUB	57.54		P	03:11:20.811	0.3	49.1		6.96		TAS		12.7	0.73	m_e	mb	5.0
PLN	57.81		P	03:11:22.787	0.2	49.1		6.96		TAS		3.3	0.82	m_e	mb	4.4
RETH	57.68		P	03:11:21.534	0.3	49.1		6.96		TAS				m_e		
STU	60.39		P	03:11:40.609		49.1		6.96		TAS		35.5	0.79	m_e	mb	5.5
TANN	57.71		P	03:11:21.706	0.3	49.1		6.96		TAS		5.2	1.07	m_e	mb	4.5
TNS	59.77		P	03:11:36.559		49.1		6.96		TAS		7.2	0.93	m_e	mb	4.7
UBR	60.67		P	03:11:42.471		49.1		6.96		TAS		3.2	0.75	m_e	mb	4.2
WET	58.32		P	03:11:26.547	-0.1	49.1		6.96		TAS		7.4	0.83	m_e	mb	4.8

Event 1105004 Alaska Peninsula, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/05	12:56:44.18			55.9700	-162.8900				34.2	5.0		25		70.19	77.74	m i ke	BGR
OrigID 1105010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1105010
Ms	4.3		BGR	1105010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	72.01		P	13:08:05.918	-0.3	357.0		5.83		TAS		8.6	1.04	m_e	mb	4.8
BFO	75.68		P	13:08:27.590	-0.1	357.0		5.83		TAS		5.1	0.90	m_e	mb	4.7
BSEG	70.19		P	13:07:54.734	0.1	357.0		5.83		TAS		18.5	0.93	m_e	mb	5.2
BUG	72.52		P	13:08:08.039	0.4	357.0		5.83		TAS		16.1	0.92	m_e	mb	5.1
BUG	72.52		pP	13:08:19.022		2.2		6.03		TAS				m_e		
CLL	72.91		P	13:08:10.199	0.8	357.0		5.83		TAS		9.6	0.94	m_e	mb	4.9
CLZ	72.28		P	13:08:06.986	-0.4	357.0		5.83		TAS		22.9	1.27	m_e	mb	5.2
FLT1	71.83		P	13:08:04.799	-0.2	357.0		5.83		TAS		10.9	1.01	a_e	mb	4.9
FLT1	71.83		pP	13:08:13.141	0.6	2.2		6.03		TAS				m_e		
FUR	75.99		P	13:08:28.242	0.2	357.0		5.83		TAS				m_e		
GEC2	75.39		P	13:08:24.899	-0.4	357.0		5.83		TAS		6.7	0.99	a_e	mb	4.7
GRA1	74.46		P	13:08:19.969	0.7	357.0		5.83		TAS		9.1	0.76	m_e	mb	4.9
GRA1	74.46		pP	13:08:28.952		2.2		6.03		TAS				m_e		
GRA1	74.46		L	13:39:51.680						T__		159.9	18.20	a_e	Ms	4.3
GTTG	72.56		P	13:08:08.549	-0.2	357.0		5.83		TAS		11.7	0.85	a_e	mb	5.0
GTTG	72.56		pP	13:08:18.429		2.2		6.03		TAS				m_e		
IBBN	71.69		P	13:08:03.049	-0.1	357.0		5.83		TAS		27.3	1.23	a_e	mb	5.2
KAST	72.82		P	13:08:10.022	0.2	357.0		5.83		TAS		12.4	1.26	m_e	mb	4.9
KBA	77.14		P	13:08:35.379		357.0		5.83		TAS		19.7	1.09	m_e	mb	5.2
MOX	73.52		P	13:08:14.049	0.7	357.0		5.83		TAS		30.1	1.40	m_e	mb	5.1
MOX	73.52		pP	13:08:24.117		2.2		6.03		TAS				m_e		
MOX	73.52		L	13:39:12.450						T__		157.7	18.00	a_e	Ms	4.3
NEUB	72.98		P	13:08:11.538	0.1	357.0		5.83		TAS		18.9	0.92	m_e	mb	5.2
OBKA	77.74		P	13:08:38.414		357.0		5.83		TAS		20.5	0.67	m_e	mb	5.4
RUE	71.76		P	13:08:03.999	-0.5	357.0		5.83		TAS		22.3	0.70	a_e	mb	5.4
STU	75.29		P	13:08:24.562	-0.5	357.0		5.83		TAS		34.4	0.33	m_e	mb	5.8
TANN	73.78		P	13:08:16.599	0.1	357.0		5.83		TAS		13.0	1.36	m_e	mb	4.8
TNS	73.80		P	13:08:16.048	-0.0	357.0		5.83		TAS		18.1	1.35	m_e	mb	4.9
TNS	73.80		pP	13:08:26.377		2.2		6.03		TAS				m_e		
UBR	76.42		P	13:08:30.690		357.0		5.83		TAS		11.6	1.34	m_e	mb	4.8
WET	75.06		P	13:08:23.230	-0.4	357.0		5.83		TAS		6.7	1.01	m_e	mb	4.6
WLF	74.21		P	13:08:19.028	-0.1	357.0		5.83		TAS		4.2	0.63	m_e	mb	4.6

Event	1106003	Hokkaido, Japan, region	Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
			2020/11/06	08:56:37.30			40.9500	143.2100				33.0			20		77.09	82.45	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1106009

Ms 5.8 BGR 1106009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	78.45		P	09:08:38.861	-0.1	34.3		5.42		TAS		31.1	1.05	m_e	mb 5.4
BFO	82.45		P	09:09:00.316		34.3		5.42		TAS		44.9	1.26	m_e	mb 5.5
BSEG	77.09		P	09:08:31.537	0.1	34.3		5.42		TAS		65.7	0.95	m_e	mb 5.7
CLL	78.28		P	09:08:37.652	0.1	34.3		5.42		TAS		56.3	0.83	m_e	mb 5.7
CLZ	78.79		P	09:08:41.142	0.3	34.3		5.42		TAS		53.0	0.91	m_e	mb 5.6
FLT1	78.09		P	09:08:36.443	-0.6	34.3		5.42		TAS		64.5	0.88	m_e	mb 5.8
FUR	81.50		P	09:08:55.790		34.3		5.42		TAS		75.7	0.77	m_e	mb 5.8
GEC2	80.01		P	09:08:47.430	-0.4	34.3		5.42		TAS		16.6	0.93	m_e	mb 5.0
GOR1	77.52		P	09:08:34.197	0.3	34.3		5.42		TAS		86.2	1.26	m_e	mb 5.7
GRA1	80.26		P	09:08:49.322	-0.1	34.3		5.42		TAS		75.8	0.84	m_e	mb 5.7
GRA1	80.26		L	09:47:41.510						T__		3631.4	19.20	a_e	Ms 5.7
GTTG	79.18		P	09:08:43.042	0.1	34.3		5.42		TAS		44.8	0.85	m_e	mb 5.5
IBBN	79.30		P	09:08:43.456	0.1	34.3		5.42		TAS		76.6	0.91	m_e	mb 5.7
KAST	80.00		P	09:08:47.395	-0.3	34.3		5.42		TAS		28.8	0.96	m_e	mb 5.2
MOX	79.33		P	09:08:43.767	-0.0	34.3		5.42		TAS		20.7	0.90	m_e	mb 5.2
MOX	79.33		L	09:47:22.193						T__		4043.9	18.30	a_e	Ms 5.8
NEUB	78.83		P	09:08:40.796	-0.0	34.3		5.42		TAS		66.5	0.89	m_e	mb 5.7
PLN	79.26		P	09:08:43.422	-0.0	34.3		5.42		TAS		7.0	0.91	m_e	mb 4.7
RETH	78.40		P	09:08:38.654	0.1	34.3		5.42		TAS		41.1	1.01	m_e	mb 5.5
STU	81.77		P	09:08:56.792	0.2	34.3		5.42		TAS		105.4	0.84	m_e	mb 6.0
TANN	79.21		P	09:08:43.111	0.5	34.3		5.42		TAS		15.4	0.96	m_e	mb 5.0
WET	80.08		P	09:08:48.328	-0.2	34.3		5.42		TAS		38.6	0.94	m_e	mb 5.3

Event 1106005 Hokkaido, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/06	17:16:56.00			40.9500	143.2200				33.0			19		77.09	82.45	m i ke	EMSC

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1106011
Ms	5.3		BGR	1106011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	78.46		P	17:28:54.982	-0.1	34.3		5.43		TAS		28.3	1.11	m_e	mb 5.2
BFO	82.45		P	17:29:16.485		34.3		5.43		TAS		22.7	0.97	m_e	mb 5.4
BSEG	77.09		P	17:28:47.662	0.1	34.3		5.43		TAS		54.4	0.94	m_e	mb 5.7
BUG	80.19		P	17:29:04.311	-0.1	34.3		5.43		TAS		37.7	0.97	m_e	mb 5.3
CLL	78.29		P	17:28:53.858	-0.4	34.3		5.43		TAS		45.0	0.88	m_e	mb 5.6
CLZ	78.80		P	17:28:57.295	0.4	34.3		5.43		TAS		40.2	0.96	m_e	mb 5.4
FLT1	78.09		P	17:28:52.554	-0.6	34.3		5.43		TAS		51.1	0.90	m_e	mb 5.7
GEC2	80.01		P	17:29:03.590	-0.4	34.3		5.43		TAS		13.0	0.93	m_e	mb 4.8
GOR1	77.53		P	17:28:50.241	0.2	34.3		5.43		TAS		59.6	1.20	m_e	mb 5.6

GRA1	80.27	P	17:29:05.487	0.4	34.3	5.43	TAS	63.3	0.89	m_e	mb	5.5
GRA1	80.27	L	18:07:57.783				T__	1317.8	19.20	a_e	Ms	5.3
IBBN	79.30	P	17:28:59.608	0.1	34.3	5.43	TAS	64.5	0.94	m_e	mb	5.6
KAST	80.01	P	17:29:03.590	0.1	34.3	5.43	TAS	23.3	0.96	m_e	mb	5.1
MOX	79.34	P	17:28:59.874	-0.1	34.3	5.43	TAS	15.5	0.90	m_e	mb	5.0
MOX	79.34	L	18:07:28.962				T__	1513.9	18.40	a_e	Ms	5.4
NEUB	78.83	P	17:28:56.992	-0.2	34.3	5.43	TAS	50.3	0.91	m_e	mb	5.5
PLN	79.27	P	17:28:59.608	0.0	34.3	5.43	TAS	4.7	0.91	m_e	mb	4.5
RETH	78.40	P	17:28:54.792	0.1	34.3	5.43	TAS	27.5	1.01	m_e	mb	5.2
TANN	79.21	P	17:28:59.229	-0.1	34.3	5.43	TAS	13.8	1.09	m_e	mb	4.9
TNS	80.82	P	17:29:07.914	0.0	34.3	5.43	TAS	18.5	0.93	m_e	mb	5.1
WET	80.09	P	17:29:04.501	-0.1	34.3	5.43	TAS	30.9	0.95	m_e	mb	5.2

Event 1107001 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/07	01:10:30.00			26.6500	143.6600				33.0			18		90.10	95.21	m i ke	EMSC
	1107037																

Magnitude	Err	Nsta	Author	OrigID
Ms	5.5		BGR	1107007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE	91.33		P	01:23:40.310	-0.3	42.5		4.64		TAS				m_e		
BFO	95.21		P	01:23:58.150		42.5		4.64		TAS				m_e		
BSEG	90.10		P	01:23:34.787	-0.3	42.5		4.64		TAS				m_e		
CLL	90.98		P	01:23:38.607	-0.2	42.5		4.64		TAS				m_e		
CLZ	91.67		P	01:23:42.398	0.2	42.5		4.64		TAS				m_e		
FLT1	90.95		P	01:23:38.261	-0.6	42.5		4.64		TAS				m_e		
FUR	94.07		P	01:23:53.288		42.5		4.64		TAS				m_e		
GEC2	92.48		P	01:23:45.530		42.5		4.64		TAS				m_e		
GOR1	90.43		P	01:23:37.268	0.8	42.5		4.64		TAS				m_e		
GRA1	92.95		P	01:23:48.294	-0.4	42.5		4.64		TAS				m_e		
GRA1	92.95		L	02:10:19.291						T__		2080.0	19.70	a_e	Ms	5.6
GTTG	92.06		P	01:23:43.926	-0.1	42.5		4.64		TAS				m_e		
IBBN	92.34		P	01:23:45.626	0.1	42.5		4.64		TAS				m_e		
MOX	92.06		P	01:23:43.836	0.0	42.5		4.64		TAS				m_e		
MOX	92.06		L	02:09:43.254						T__		1722.1	19.40	a_e	Ms	5.5
NEUB	91.59		P	01:23:41.517	-0.1	42.5		4.64		TAS				m_e		
PLN	91.95		P	01:23:43.346	0.1	42.5		4.64		TAS				m_e		
RETH	91.39		P	01:23:41.330	0.3	42.5		4.64		TAS				m_e		
TANN	91.88		P	01:23:43.001	0.4	42.5		4.64		TAS				m_e		
WET	92.63		P	01:23:46.481	0.2	42.5		4.64		TAS				m_e		

Event 1107002 Central Alaska, United States  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/11/07 12:23:22.55 63.5490 -149.9000 50.0 19 62.81 67.88 m i ke EMSC  
 1107038

Magnitude Err Nsta Author OrigID  
 mb 5.5 BGR 1107008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	63.55		P	12:33:48.725	0.4	350.9		6.45		TAS		22.7	1.04	m_e	mb 5.3
BFO	67.03		P	12:34:10.962	-0.3	350.9		6.45		TAS		34.1	1.24	m_e	mb 5.4
BUG	63.84		P	12:33:50.550	0.4	350.9		6.45		TAS		34.9	0.81	m_e	mb 5.6
CLL	64.58		P	12:33:55.353	0.0	350.9		6.45		TAS		25.0	0.93	m_e	mb 5.4
CLZ	63.80		P	12:33:50.982	-0.2	350.9		6.45		TAS		44.8	0.85	m_e	mb 5.7
FLT1	63.40		P	12:33:47.524	-0.5	350.9		6.45		TAS		17.4	0.84	m_e	mb 5.3
GEC2	67.09		P	12:34:11.778		350.9		6.45		TAS		27.0	1.07	m_e	mb 5.4
GTTG	64.05		P	12:33:52.615	0.0	350.9		6.45		TAS		66.9	1.00	m_e	mb 5.8
IBBN	63.05		P	12:33:45.891	0.2	350.9		6.45		TAS		32.7	0.74	m_e	mb 5.5
KAST	64.21		P	12:33:53.240	-0.0	350.9		6.45		TAS		16.1	1.01	m_e	mb 5.2
MOX	65.11		P	12:33:59.067	-0.0	350.9		6.45		TAS		42.2	0.83	m_e	mb 5.7
NEUB	64.58		P	12:33:55.593	-0.3	350.9		6.45		TAS		44.5	0.90	m_e	mb 5.7
PLN	65.32		P	12:34:00.444	0.3	350.9		6.45		TAS		8.7	0.82	m_e	mb 5.0
RETH	62.81		P	12:33:44.114	-0.1	350.9		6.45		TAS		9.3	0.76	m_e	mb 5.0
TANN	65.42		P	12:34:01.308	0.4	350.9		6.45		TAS		28.7	1.09	m_e	mb 5.4
TNS	65.18		P	12:33:59.435	0.1	350.9		6.45		TAS		18.4	0.80	m_e	mb 5.4
UBR	67.88		P	12:34:16.581		350.9		6.45		TAS		33.9	0.93	m_e	mb 5.6
WET	66.71		P	12:34:09.761	0.0	350.9		6.45		TAS		39.6	1.14	m_e	mb 5.5
WLF	65.45		P	12:34:01.356	0.4	350.9		6.45		TAS		45.9	1.07	m_e	mb 5.6

Event 1107003 South of Fiji Islands  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/11/07 17:16:34.97 -22.0230 -176.2840 33.0 17 149.11 153.80 m i ke BGR  
 1107009

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	149.38		PKPbc	17:36:20.281	0.0	14.8		2.40		TAS				m_e	
BFO	153.40		PKPbc	17:36:29.802		14.8		2.40		TAS				m_e	
CLL	149.81		PKPbc	17:36:21.259	0.1	14.8		2.40		TAS				m_e	
CLZ	149.70		PKPbc	17:36:21.370	0.1	14.8		2.40		TAS				m_e	
FLT1	149.11		PKPbc	17:36:19.304	-0.1	14.8		2.40		TAS				m_e	
GEC2	152.00		PKPbc	17:36:26.703		14.8		2.40		TAS				m_e	

GRA1	151.67	PKPbc	17:36:26.201	-0.3	14.8	2.40	TAS	m_e
IBBN	149.52	PKPbc	17:36:20.616	0.2	14.8	2.40	TAS	m_e
KAST	150.56	PKPbc	17:36:23.353	0.2	14.8	2.40	TAS	m_e
MOX	150.68	PKPbc	17:36:23.576	0.2	14.8	2.40	TAS	m_e
NEUB	150.13	PKPbc	17:36:22.236	0.2	14.8	2.40	TAS	m_e
PLN	150.75	PKPbc	17:36:23.827	0.4	14.8	2.40	TAS	m_e
TANN	150.76	PKPbc	17:36:23.883	0.3	14.8	2.40	TAS	m_e
TNS	151.52	PKPbc	17:36:25.810	-0.0	14.8	2.40	TAS	m_e
UBR	153.80	PKPbc	17:36:30.584		14.8	2.40	TAS	m_e
WET	151.89	PKPbc	17:36:26.396	-0.4	14.8	2.40	TAS	m_e
WLF	152.26	PKPbc	17:36:28.099	-0.1	14.8	2.40	TAS	m_e

Event 1108003 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/08	06:31:18.03			1.1000	-27.2000				10.0			23		56.16	61.54	m i ke	BGR
OrigID 1108009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1108009
Ms	4.5		BGR	1108009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	56.16		P	06:40:58.124	0.1	226.3		6.98		TAS		21.6	1.59	m_e	mb 4.9
BSEG	61.05		P	06:41:31.372	-0.6	226.3		6.98		TAS		20.7	1.19	m_e	mb 4.8
BUG	57.96		P	06:41:10.605	0.1	226.3		6.98		TAS		232.2	2.84	m_e	mb 5.7
CLL	60.41		P	06:41:27.842	0.1	226.3		6.98		TAS		7.3	1.30	m_e	mb 4.5
CLZ	59.59		P	06:41:22.055	0.1	226.3		6.98		TAS		27.2	1.78	m_e	mb 5.0
FLT1	60.31		P	06:41:26.733	-0.2	226.3		6.98		TAS		6.1	1.13	m_e	mb 4.5
FUR	57.46		P	06:41:07.239	0.2	226.3		6.98		TAS		82.0	1.73	m_e	mb 5.5
GEC2	59.12		P	06:41:18.798	0.3	226.3		6.98		TAS		11.9	1.08	m_e	mb 4.8
GRA1	58.47		P	06:41:13.745	-0.5	226.3		6.98		TAS		34.6	1.52	m_e	mb 5.2
GRA1	58.47		L	07:02:06.300						T__		324.1	21.80	a_e	Ms 4.4
GTTG	59.19		P	06:41:19.390	0.2	226.3		6.98		TAS		20.0	1.06	m_e	mb 5.1
IBBN	58.81		P	06:41:16.396	0.1	226.3		6.98		TAS		19.7	0.95	m_e	mb 5.1
KAST	58.27		P	06:41:12.668	-0.1	226.3		6.98		TAS		12.3	1.17	m_e	mb 4.8
MOX	59.31		P	06:41:20.139	0.1	226.3		6.98		TAS		6.5	0.91	m_e	mb 4.7
MOX	59.31		L	07:05:45.790						T__		347.2	19.80	a_e	Ms 4.5
NEUB	59.76		P	06:41:23.307	0.1	226.3		6.98		TAS		14.7	0.98	m_e	mb 5.0
PLN	59.46		P	06:41:20.921	-0.1	226.3		6.98		TAS		5.7	1.22	m_e	mb 4.5
RETH	59.79		P	06:41:23.619	0.4	226.3		6.98		TAS		20.8	1.41	m_e	mb 5.0
RUE	61.54		P	06:41:35.986	0.3	226.3		6.98		TAS		9.9	0.71	m_e	mb 4.7
STU	56.88		P	06:41:03.036	-0.0	226.3		6.98		TAS		21.6	1.18	m_e	mb 5.1
TANN	59.55		P	06:41:21.759	0.0	226.3		6.98		TAS		15.0	1.18	m_e	mb 4.9
TNS	57.58		P	06:41:07.957	0.0	226.3		6.98		TAS		15.3	1.19	m_e	mb 4.9
UBR	56.56		P	06:41:00.574	-0.1	226.3		6.98		TAS		44.0	1.46	m_e	mb 5.3

WET	58.91	P	06:41:16.588	-0.5	226.3	6.98	TAS	14.4	1.26	m_e	mb	4.9
WLF	56.16	P	06:40:57.963	-0.0	226.3	6.98	TAS	25.1	1.65	m_e	mb	5.0

Event 1109004 New Ireland, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/09	16:45:33.30			-3.9700	153.3290				217.0			14		122.34	126.60	m i ke	NEIC
OrigID 1109043																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	126.58		PKPdf	17:04:10.253		47.8		2.07		TAS				m_e	
BUG	124.81		PKPdf	17:04:07.220		47.8		2.07		TAS				m_e	
CLL	122.34		PKPdf	17:04:01.290	0.3	47.8		2.07		TAS				m_e	
CLZ	123.18		PKPdf	17:04:03.881	0.4	47.8		2.07		TAS				m_e	
FLT1	122.45		PKPdf	17:04:01.874	0.2	47.8		2.07		TAS				m_e	
GEC2	123.59		PKPdf	17:04:04.728		47.8		2.07		TAS				m_e	
KAST	124.49		PKPdf	17:04:06.187		47.8		2.07		TAS				m_e	
MOX	123.43		PKPdf	17:04:04.530	-0.5	47.8		2.07		TAS				m_e	
NEUB	122.99		PKPdf	17:04:03.655	0.1	47.8		2.07		TAS				m_e	
STU	125.86		PKPdf	17:04:09.653		47.8		2.07		TAS				m_e	
TANN	123.19		PKPdf	17:04:03.629	-0.3	47.8		2.07		TAS				m_e	
UBR	126.17		PKPdf	17:04:09.592		47.8		2.07		TAS				m_e	
WET	123.81		PKPdf	17:04:05.095		47.8		2.07		TAS				m_e	
WLF	126.60		PKPdf	17:04:10.919		47.8		2.07		TAS				m_e	

Event 1110001 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/10	03:35:25.40			-19.0890	-177.2370				33.0			17		144.65	150.77	m i ke	BGR
OrigID 1110007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.39		PKPbc	03:55:14.097		15.5		2.71		TAS				m_e	
BSEG	144.65		PKPbc	03:54:58.142	-0.8	15.5		2.71		TAS				m_e	
CLL	146.76		PKPbc	03:55:04.573	0.2	15.5		2.71		TAS				m_e	
CLZ	146.68		PKPbc	03:55:04.774	0.0	15.5		2.71		TAS				m_e	
FLT1	146.08		PKPbc	03:55:02.398	0.3	15.5		2.71		TAS				m_e	
FUR	150.10		PKPbc	03:55:13.496		15.5		2.71		TAS				m_e	
GEC2	148.95		PKPbc	03:55:10.624	-0.5	15.5		2.71		TAS				m_e	

GTTG	147.03	PKPbc	03:55:05.636	0.1	15.5	2.71	TAS	m_e
KAST	147.56	PKPbc	03:55:06.968	0.1	15.5	2.71	TAS	m_e
MOX	147.65	PKPbc	03:55:07.125	0.3	15.5	2.71	TAS	m_e
NEUB	147.09	PKPbc	03:55:05.662	0.2	15.5	2.71	TAS	m_e
PLN	147.71	PKPbc	03:55:07.360	0.2	15.5	2.71	TAS	m_e
STU	149.85	PKPbc	03:55:12.922		15.5	2.71	TAS	m_e
TANN	147.72	PKPbc	03:55:07.464	0.4	15.5	2.71	TAS	m_e
TNS	148.52	PKPbc	03:55:09.658	0.0	15.5	2.71	TAS	m_e
UBR	150.77	PKPbc	03:55:14.959		15.5	2.71	TAS	m_e
WLF	149.28	PKPbc	03:55:12.191	-0.1	15.5	2.71	TAS	m_e

Event 1111002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/11	00:48:46.97			-19.3400	-177.2990				428.4	4.2		11		143.85	151.01	m i ke	BGR
1111008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.60		PKPdf	01:07:35.619	-0.2	13.5		1.57		TAS					m_e
ASSE	146.60		PKPbc	01:07:38.715	0.1	15.7		2.60		TAS					m_e
ASSE	146.60		pPKPbc	01:09:20.729		15.6		2.86		TAS					m_e
BFO	150.63		PKPdf	01:07:41.933		13.5		1.57		TAS					m_e
BFO	150.63		PKPbc	01:07:48.624	-0.5	15.7		2.60		TAS					m_e
BSEG	144.89		PKPbc	01:07:34.253	0.1	15.7		2.60		TAS					m_e
BUG	147.67		PKPdf	01:07:37.286	-0.2	13.5		1.57		TAS					m_e
BUG	147.67		PKPbc	01:07:41.565	-0.1	15.7		2.60		TAS					m_e
BUG	147.67		PKPab	01:07:45.523		12.9		4.16		TAS					m_e
BUG	147.67		pPKPbc	01:09:24.319		15.6		2.86		TAS					m_e
CLL	147.00		PKPdf	01:07:36.222	-0.1	13.5		1.57		TAS					m_e
CLL	147.00		PKPbc	01:07:39.501	-0.1	15.7		2.60		TAS					m_e
CLL	147.00		pPKPbc	01:09:22.073		15.6		2.86		TAS					m_e
CLZ	146.92		PKPdf	01:07:36.577	0.1	13.5		1.57		TAS					m_e
CLZ	146.92		PKPbc	01:07:40.119	0.7	15.7		2.60		TAS					m_e
CLZ	146.92		PKPab	01:07:43.242	0.2	12.9		4.16		TAS					m_e
CLZ	146.92		pPKPbc	01:09:22.137		15.6		2.86		TAS					m_e
FLT1	146.32		PKPdf	01:07:34.874	0.4	13.5		1.57		TAS					m_e
FLT1	146.32		PKPbc	01:07:37.626	-0.2	15.7		2.60		TAS					m_e
FLT1	146.32		PKPab	01:07:40.278	-0.0	12.9		4.16		TAS					m_e
FLT1	146.32		pPKPbc	01:09:20.165	-0.0	15.6		2.86		TAS					m_e
FUR	150.33		PKPdf	01:07:41.649		13.5		1.57		TAS					m_e
FUR	150.33		PKPbc	01:07:47.949	-0.3	15.7		2.60		TAS					m_e
GEC2	149.18		PKPdf	01:07:39.840	-0.1	13.5		1.57		TAS					m_e
GEC2	149.18		PKPbc	01:07:44.951	-0.4	15.7		2.60		TAS					m_e
GEC2	149.18		pPKPbc	01:09:28.429		15.6		2.86		TAS					m_e



GOR1	145.67	PKPdf	01:07:34.342	-0.4	13.5	1.57	TAS	m_e
GOR1	145.67	PKPbc	01:07:36.052	-0.1	15.7	2.60	TAS	m_e
GRA1	148.87	PKPdf	01:07:39.415	0.3	13.5	1.57	TAS	m_e
GRA1	148.87	PKPbc	01:07:44.763	0.3	15.7	2.60	TAS	m_e
GRA1	148.87	PKPab	01:07:51.404		12.9	4.16	TAS	m_e
GTTG	147.27	PKPdf	01:07:36.719	0.2	13.5	1.57	TAS	m_e
GTTG	147.27	PKPbc	01:07:40.723	0.4	15.7	2.60	TAS	m_e
HLG	144.91	PKPbc	01:07:34.123	-0.3	15.7	2.60	TAS	m_e
IBBN	146.77	PKPdf	01:07:36.045	-0.0	13.5	1.57	TAS	m_e
IBBN	146.77	PKPbc	01:07:39.196	-0.1	15.7	2.60	TAS	m_e
IBBN	146.77	PKPab	01:07:42.477	-0.2	12.9	4.16	TAS	m_e
KAST	147.80	PKPdf	01:07:37.819	0.2	13.5	1.57	TAS	m_e
KAST	147.80	PKPbc	01:07:41.913	0.1	15.7	2.60	TAS	m_e
KAST	147.80	PKPab	01:07:46.443		12.9	4.16	TAS	m_e
MOX	147.88	PKPdf	01:07:37.712	0.0	13.5	1.57	TAS	m_e
MOX	147.88	PKPbc	01:07:42.190	0.3	15.7	2.60	TAS	m_e
MOX	147.88	PKPab	01:07:46.736		12.9	4.16	TAS	m_e
NEUB	147.33	PKPdf	01:07:36.932	-0.1	13.5	1.57	TAS	m_e
NEUB	147.33	PKPbc	01:07:40.895	0.5	15.7	2.60	TAS	m_e
NEUB	147.33	PKPab	01:07:44.692		12.9	4.16	TAS	m_e
PLN	147.94	PKPdf	01:07:37.677	0.1	13.5	1.57	TAS	m_e
PLN	147.94	PKPbc	01:07:42.535	0.5	15.7	2.60	TAS	m_e
PLN	147.94	PKPab	01:07:47.099		12.9	4.16	TAS	m_e
RETH	146.18	PKPdf	01:07:34.874	0.0	13.5	1.57	TAS	m_e
RETH	146.18	PKPbc	01:07:37.428	-0.1	15.7	2.60	TAS	m_e
RETH	146.18	PKPab	01:07:39.824	-0.5	12.9	4.16	TAS	m_e
RGN	143.85	PKPbc	01:07:30.400	-1.0	15.7	2.60	TAS	m_e
RUE	145.74	PKPdf	01:07:34.591	-0.1	13.5	1.57	TAS	m_e
RUE	145.74	PKPbc	01:07:36.429	0.1	15.7	2.60	TAS	m_e
STU	150.09	PKPdf	01:07:41.437		13.5	1.57	TAS	m_e
STU	150.09	PKPbc	01:07:47.544	-0.1	15.7	2.60	TAS	m_e
TANN	147.95	PKPdf	01:07:38.138	0.1	13.5	1.57	TAS	m_e
TANN	147.95	PKPbc	01:07:42.525	0.5	15.7	2.60	TAS	m_e
TNS	148.76	PKPdf	01:07:39.131	-0.1	13.5	1.57	TAS	m_e
TNS	148.76	PKPbc	01:07:44.002	-0.3	15.7	2.60	TAS	m_e
TNS	148.76	PKPab	01:07:50.712		12.9	4.16	TAS	m_e
UBR	151.01	PKPdf	01:07:42.394		13.5	1.57	TAS	m_e
UBR	151.01	PKPbc	01:07:49.482	-0.5	15.7	2.60	TAS	m_e
WET	149.08	PKPdf	01:07:39.876	0.0	13.5	1.57	TAS	m_e
WET	149.08	PKPbc	01:07:44.865	-0.1	15.7	2.60	TAS	m_e
WLF	149.53	PKPbc	01:07:46.854	0.3	15.7	2.60	TAS	m_e
WLF	149.53	pPKPbc	01:09:29.711		15.6	2.86	TAS	m_e

Event 1112002 Fiji Islands region

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

2020/11/12 14:34:23.15

-18.4400 -177.8800

600.0

25

143.92 150.03 m i ke BGR

1112008

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.63		PKPbc	14:52:55.834	0.1	14.8		2.72		TAS				m_e	
BFO	149.67		PKPbc	14:53:06.077	-0.7	14.8		2.72		TAS				m_e	
BSEG	143.92		PKPbc	14:52:50.723	-0.4	14.8		2.72		TAS				m_e	
BUG	146.73		PKPbc	14:52:58.930	0.1	14.8		2.72		TAS				m_e	
CLL	146.01		PKPbc	14:52:56.660	-0.2	14.8		2.72		TAS				m_e	
CLZ	145.95		PKPbc	14:52:56.902	0.3	14.8		2.72		TAS				m_e	
FLT1	145.34		PKPbc	14:52:54.360	-0.6	14.8		2.72		TAS				m_e	
FUR	149.34		PKPbc	14:53:05.873	-0.0	14.8		2.72		TAS				m_e	
GEC2	148.17		PKPbc	14:53:02.451	-0.5	14.8		2.72		TAS				m_e	
GOR1	144.70		PKPbc	14:52:53.402	0.2	14.8		2.72		TAS				m_e	
GRA1	147.89		PKPbc	14:53:01.769	-0.1	14.8		2.72		TAS				m_e	
GTTG	146.30		PKPbc	14:52:57.660	0.1	14.8		2.72		TAS				m_e	
IBBN	145.83		PKPbc	14:52:56.290	-0.1	14.8		2.72		TAS				m_e	
KAST	146.84		PKPbc	14:52:59.020	-0.1	14.8		2.72		TAS				m_e	
MOX	146.90		PKPbc	14:52:59.622	0.4	14.8		2.72		TAS				m_e	
NEUB	146.35		PKPbc	14:52:57.931	0.2	14.8		2.72		TAS				m_e	
PLN	146.96		PKPbc	14:52:59.444	0.0	14.8		2.72		TAS				m_e	
RETH	145.22		PKPbc	14:52:54.712	0.1	14.8		2.72		TAS				m_e	
RUE	144.75		PKPbc	14:52:53.172	-0.3	14.8		2.72		TAS				m_e	
STU	149.12		PKPbc	14:53:05.558	0.3	14.8		2.72		TAS				m_e	
TANN	146.96		PKPbc	14:52:59.807	0.4	14.8		2.72		TAS				m_e	
TNS	147.80		PKPbc	14:53:01.693	0.0	14.8		2.72		TAS				m_e	
UBR	150.03		PKPbc	14:53:07.192	-0.5	14.8		2.72		TAS				m_e	
WET	148.08		PKPbc	14:53:03.486	0.9	14.8		2.72		TAS				m_e	
WLF	148.59		PKPbc	14:53:04.380	0.4	14.8		2.72		TAS				m_e	

Event 1113006 Southern Xinjiang, China

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

OrigID

2020/11/13 09:16:48.02

39.4830 74.5260

33.0

44.95 44.95 m i ke BGR

1113012

Magnitude Err Nsta Author OrigID

mb 4.5 BGR 1113012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	44.95		P	09:24:59.234		82.7		7.47		TAS		4.9	0.86	m_e mb	4.5

Event 1114001 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/14	02:56:43.06			28.7000	68.5400				24.1	0.8		16		46.13	50.42	m i ke	BGR
OrigID 1114007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1114007
Ms	5.1		BGR	1114007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	49.66		P	03:05:32.015		94.7		7.78		TAS		51.3	1.23	m_e	mb 5.3
BFO	49.66		pP	03:05:38.730	0.3					T__				m_e	
BSEG	48.77		P	03:05:25.815	0.5	94.7		7.78		TAS		86.9	1.06	m_e	mb 5.7
BUG	50.42		P	03:05:38.755	0.5	94.7		7.78		TAS		43.5	0.92	m_e	mb 5.4
CLL	46.83		P	03:05:10.555	0.4	94.7		7.78		TAS		14.5	0.96	m_e	mb 5.1
CLZ	48.52		P	03:05:23.849	-0.3	94.7		7.78		TAS		46.3	1.10	m_e	mb 5.4
FLT1	48.03		P	03:05:19.533	0.2	94.7		7.78		TAS		37.2	0.94	m_e	mb 5.5
GEC2	46.13		P	03:05:04.948		94.7		7.78		TAS		19.7	0.95	m_e	mb 5.1
GRA1	47.81		P	03:05:19.300		94.7		7.78		TAS		54.8	1.08	m_e	mb 5.6
GRA1	47.81		pP	03:05:25.627	0.3					T__				m_e	
GRA1	47.81		L	03:27:33.434						T__		2232.5	20.00	a_e	Ms 5.1
GTTG	48.75		P	03:05:26.007	0.1	94.7		7.78		TAS		48.9	1.06	m_e	mb 5.5
IBBN	50.16		P	03:05:36.617	-0.1	94.7		7.78		TAS		40.7	0.97	m_e	mb 5.3
MOX	47.63		P	03:05:17.687	-0.4	94.7		7.78		TAS		76.3	1.18	m_e	mb 5.7
MOX	47.63		L	03:26:58.048						T__		2267.7	20.40	a_e	Ms 5.1
NEUB	47.59		P	03:05:16.897	0.8	94.7		7.78		TAS		60.0	1.06	m_e	mb 5.7
PLN	47.28		P	03:05:14.825	-0.6	94.7		7.78		TAS		11.0	1.00	m_e	mb 4.9
RUE	46.51		P	03:05:07.567	-0.6	94.7		7.78		TAS		38.7	0.95	m_e	mb 5.5
TANN	47.08		P	03:05:13.118	0.1	94.7		7.78		TAS		39.4	1.28	m_e	mb 5.4
TANN	47.08		pP	03:05:19.559	0.3					T__				m_e	
UBR	48.46		P	03:05:23.159		94.7		7.78		TAS		73.1	1.01	m_e	mb 5.8

Event 1114002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/14	06:42:29.66			-20.2180	169.9010				33.0			15		144.56	148.21	m i ke	BGR
OrigID 1114008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.9		BGR	1114008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.21		PKPbc	07:02:11.770		37.6		3.26		TAS				m_e	
BUG	145.93		PKPbc	07:02:04.756	0.0	37.6		3.26		TAS				m_e	

./bul2011.txt

Wed Mar 30 12:17:24 2022

20

CLZ	144.56	PKPbc	07:02:00.487	0.3	37.6	3.26	TAS	m_e
FUR	147.17	PKPbc	07:02:08.949		37.6	3.26	TAS	m_e
GEC2	145.61	PKPbc	07:02:03.536		37.6	3.26	TAS	m_e
GRA1	145.99	PKPbc	07:02:05.518		37.6	3.26	TAS	m_e
GRA1	145.99	L	08:05:58.394				T__	208.2 19.60 a_e Ms 4.9
KAST	145.76	PKPbc	07:02:04.222	0.2	37.6	3.26	TAS	m_e
MOX	145.08	PKPbc	07:02:01.859	0.2	37.6	3.26	TAS	m_e
MOX	145.08	L	08:00:21.311				T__	225.3 21.10 a_e Ms 4.9
NEUB	144.58	PKPbc	07:02:00.106	-0.4	37.6	3.26	TAS	m_e
PLN	145.00	PKPbc	07:02:01.783	-0.3	37.6	3.26	TAS	m_e
STU	147.52	PKPbc	07:02:10.092		37.6	3.26	TAS	m_e
TNS	146.58	PKPbc	07:02:07.348		37.6	3.26	TAS	m_e
UBR	148.04	PKPbc	07:02:11.312		37.6	3.26	TAS	m_e
WET	145.74	PKPbc	07:02:04.146		37.6	3.26	TAS	m_e
WLF	147.82	PKPbc	07:02:11.541		37.6	3.26	TAS	m_e

Event 1114006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/14	11:11:53.48			-18.6500	-177.8330				33.0			16		144.96	150.24	m i ke	BGR
	1114012																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.84		PKPbc	11:31:28.398	-0.2	16.4		2.77		TAS					m_e
BFO	149.88		PKPbc	11:31:39.279		16.4		2.77		TAS					m_e
CLL	146.22		PKPbc	11:31:29.297	0.3	16.4		2.77		TAS					m_e
CLZ	146.16		PKPbc	11:31:29.297	0.4	16.4		2.77		TAS					m_e
FLT1	145.56		PKPbc	11:31:27.340	0.2	16.4		2.77		TAS					m_e
GEC2	148.39		PKPbc	11:31:35.689		16.4		2.77		TAS					m_e
GRA1	148.10		PKPbc	11:31:35.473		16.4		2.77		TAS					m_e
GTTG	146.51		PKPbc	11:31:30.590	0.2	16.4		2.77		TAS					m_e
MOX	147.12		PKPbc	11:31:32.241	0.1	16.4		2.77		TAS					m_e
NEUB	146.56		PKPbc	11:31:30.901	0.8	16.4		2.77		TAS					m_e
RETH	145.43		PKPbc	11:31:27.211	-0.4	16.4		2.77		TAS					m_e
RUE	144.96		PKPbc	11:31:25.743	-0.1	16.4		2.77		TAS					m_e
TANN	147.18		PKPbc	11:31:32.385	-0.6	16.4		2.77		TAS					m_e
TNS	148.01		PKPbc	11:31:34.899		16.4		2.77		TAS					m_e
UBR	150.24		PKPbc	11:31:39.997		16.4		2.77		TAS					m_e
WLF	148.80		PKPbc	11:31:37.340		16.4		2.77		TAS					m_e

Event 1115002 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/15	22:37:43.70			8.6690	126.3320				43.0			9		96.49	102.04	m i ke	NEIC
1115041																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.7		BGR	1115008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	98.36		SKSac	23:02:13.233		63.4		5.40		TAS					m_e
ASSE	98.36		Pdiff	22:51:16.399	-0.2	65.4		4.40		TAS					m_e
BFO	101.41		Pdiff	22:51:27.966	-1.9	65.4		4.40		TAS					m_e
BSEG	97.76		SKSac	23:02:08.757	0.3	63.4		5.40		TAS					m_e
BSEG	97.76		Pdiff	22:51:13.481	-0.5	65.4		4.40		TAS					m_e
BUG	100.56		SKSac	23:02:24.525		63.4		5.40		TAS					m_e
BUG	100.56		Pdiff	22:51:26.390	0.1	65.4		4.40		TAS					m_e
CLL	97.40		SKSac	23:02:04.912	-0.1	63.4		5.40		TAS					m_e
CLL	97.40		Pdiff	22:51:11.500	-0.7	65.4		4.40		TAS					m_e
CLZ	98.66		Pdiff	22:51:18.136	0.3	65.4		4.40		TAS					m_e
FLT1	97.96		SKSac	23:02:09.759	1.0	63.4		5.40		TAS					m_e
FLT1	97.96		Pdiff	22:51:14.113	-0.7	65.4		4.40		TAS					m_e
FUR	99.71		Pdiff	22:51:22.704	0.3	65.4		4.40		TAS					m_e
GEC2	97.97		SKSac	23:02:10.963	-0.4	63.4		5.40		TAS					m_e
GEC2	97.97		Pdiff	22:51:14.326	-0.3	65.4		4.40		TAS					m_e
GOR1	97.64		Pdiff	22:51:13.854	0.4	65.4		4.40		TAS					m_e
GRA1	99.10		Pdiff	22:51:19.742	0.1	65.4		4.40		TAS					m_e
GRA1	99.10		L	23:39:02.430						T__		2936.9	21.60	a_e Ms	5.8
GTTG	99.02		Pdiff	22:51:19.183	-0.2	65.4		4.40		TAS					m_e
KAST	100.04		Pdiff	22:51:24.220	0.3	65.4		4.40		TAS					m_e
MOX	98.47		SKSac	23:02:11.564		63.4		5.40		TAS					m_e
MOX	98.47		Pdiff	22:51:16.870	-0.1	65.4		4.40		TAS					m_e
MOX	98.47		L	23:39:22.985						T__		2447.6	20.20	a_e Ms	5.7
NEUB	98.15		Pdiff	22:51:15.313	-0.2	65.4		4.40		TAS					m_e
PLN	98.22		Pdiff	22:51:16.030	0.2	65.4		4.40		TAS					m_e
RETH	98.81		Pdiff	22:51:18.483	-0.1	65.4		4.40		TAS					m_e
RUE	96.49		SKSac	23:02:03.812	-2.3	63.4		5.40		TAS					m_e
RUE	96.49		Pdiff	22:51:08.847	0.6	65.4		4.40		TAS					m_e
STU	100.70		Pdiff	22:51:27.107	0.4	65.4		4.40		TAS					m_e
TANN	98.07		Pdiff	22:51:15.463	0.3	65.4		4.40		TAS					m_e
TNS	100.47		Pdiff	22:51:26.215	0.4	65.4		4.40		TAS					m_e
UBR	100.63		Pdiff	22:51:26.334	-0.1	65.4		4.40		TAS					m_e
WET	98.34		SKSac	23:02:13.656		63.4		5.40		TAS					m_e
WET	98.34		Pdiff	22:51:16.971	0.7	65.4		4.40		TAS					m_e
WLF	102.04		Pdiff	22:51:33.510	0.8	65.4		4.40		TAS					m_e

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/16	15:08:12.80			27.6400	129.8500				10.0			6		83.40	85.64	m i ke	EMSC
OrigID 1116036																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1116010
Ms	4.7		BGR	1116010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BSEG	83.40		P	15:20:41.502	0.1	51.3		5.35		TAS		17.1	0.91	m_e	mb 5.3
CLL	83.75		P	15:20:42.908		51.3		5.35		TAS		19.4	0.94	m_e	mb 5.3
CLZ	84.70		P	15:20:48.219		51.3		5.35		TAS		41.2	1.02	m_e	mb 5.6
FLT1	83.98		P	15:20:43.994		51.3		5.35		TAS		23.6	0.97	m_e	mb 5.4
GRA1	85.64		L	16:03:40.221						T__		447.7	18.60	a_e	Ms 4.9
MOX	84.84		L	16:08:11.867						T__		194.7	18.60	a_e	Ms 4.5
NEUB	84.43		P	15:20:46.618		51.3		5.35		TAS		38.2	1.07	m_e	mb 5.5
PLN	84.67		P	15:20:47.731		51.3		5.35		TAS		3.5	1.09	m_e	mb 4.5

## Event 1117007 Southwest of Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/17	01:44:06.88			-3.9490	99.9830				37.0	0.3		26		90.52	95.49	m i ke	BGR
OrigID 1117013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.8		BGR	1117013
Ms	5.6		BGR	1117013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	92.68		P	01:57:14.756	-0.1	93.5		4.61		TAS		53.1	1.23	a_e	mb 5.8
ASSE	92.68		sP	01:57:29.883	-0.2	93.6		4.61		TAS				a_e	
BFO	94.05		P	01:57:20.756	-0.3	93.5		4.61		TAS		18.1	1.17	a_e	mb 5.3
BFO	94.05		sP	01:57:35.883	0.1	93.6		4.61		TAS				a_e	
BSEG	92.98		P	01:57:16.356	0.1	93.5		4.61		TAS		304.1	2.66	a_e	mb 6.3
BSEG	92.98		sP	01:57:31.633	0.1	93.6		4.61		TAS				a_e	
BUG	94.77		P	01:57:24.406	-0.1	93.5		4.61		TAS		122.8	2.19	a_e	mb 6.0
BUG	94.77		sP	01:57:39.533	0.2	93.6		4.61		TAS				a_e	
CLL	91.18		P	01:57:07.556	-0.3	93.5		4.61		TAS		43.9	1.16	a_e	mb 5.7
CLL	91.18		sP	01:57:22.733	-0.3	93.6		4.61		TAS				a_e	
CLZ	92.85		P	01:57:15.756	0.1	93.5		4.61		TAS		60.1	1.25	a_e	mb 5.9
CLZ	92.85		sP	01:57:30.933	0.2	93.6		4.61		TAS				a_e	
FLT1	92.35		P	01:57:12.606	-0.7	93.5		4.61		TAS		50.0	1.38	a_e	mb 5.7
FLT1	92.35		sP	01:57:27.733	-0.1	93.6		4.61		TAS				a_e	
FUR	92.08		P	01:57:11.706	-0.3	93.5		4.61		TAS		42.2	1.08	a_e	mb 5.7
FUR	92.08		sP	01:57:26.783	0.5	93.6		4.61		TAS				m_e	

GEC2	90.52	P	01:57:05.056	0.2	93.5	4.61	TAS	316.6	1.81	a_e	mb	6.2
GEC2	90.52	sP	01:57:20.133	0.2	93.6	4.61	TAS			a_e		
GOR1	92.34	P	01:57:13.256	-0.0	93.5	4.61	TAS	252.8	1.96	a_e	mb	6.2
GOR1	92.34	sP	01:57:28.383	-0.7	93.6	4.61	TAS			a_e		
GRA1	92.20	P	01:57:13.056	0.5	93.5	4.61	TAS	100.5	1.33	a_e	mb	6.0
GRA1	92.20	sP	01:57:28.233	-0.1	93.6	4.61	TAS			a_e		
GRA1	92.20	L	02:44:27.275				T__	2028.5	20.90	a_e	Ms	5.5
GTTG	93.09	P	01:57:16.756	0.0	93.5	4.61	TAS	38.9	1.07	a_e	mb	5.8
GTTG	93.09	sP	01:57:31.933	-0.1	93.6	4.61	TAS			a_e		
IBBN	94.48	P	01:57:23.156	0.0	93.5	4.61	TAS	40.0	1.13	a_e	mb	5.7
IBBN	94.48	sP	01:57:38.233	-0.1	93.6	4.61	TAS			a_e		
KAST	94.05	P	01:57:21.206	0.1	93.5	4.61	TAS	75.6	1.54	m_e	mb	5.8
KAST	94.05	sP	01:57:36.383	-0.1	93.6	4.61	TAS			a_e		
MOX	92.01	P	01:57:11.806	0.1	93.5	4.61	TAS	86.5	1.55	a_e	mb	5.8
MOX	92.01	sP	01:57:27.033	-0.3	93.6	4.61	TAS			a_e		
MOX	92.01	L	02:44:09.872				T__	2607.1	21.70	a_e	Ms	5.6
NEUB	91.95	P	01:57:11.306	-0.1	93.5	4.61	TAS	80.6	1.08	a_e	mb	6.0
NEUB	91.95	sP	01:57:26.483	0.2	93.6	4.61	TAS			a_e		
PLN	91.65	P	01:57:10.206	0.1	93.5	4.61	TAS	17.4	1.27	a_e	mb	5.2
PLN	91.65	sP	01:57:25.333	-0.1	93.6	4.61	TAS			a_e		
RETH	93.51	P	01:57:18.706	0.1	93.5	4.61	TAS	41.8	1.43	a_e	mb	5.7
RETH	93.51	sP	01:57:33.833	0.2	93.6	4.61	TAS			a_e		
RGN	91.26	P	01:57:08.406	0.1	93.5	4.61	TAS	287.7	1.43	a_e	mb	6.4
RUE	90.80	P	01:57:06.106	-0.1	93.5	4.61	TAS	179.3	1.25	a_e	mb	6.3
RUE	90.80	sP	01:57:21.283	-0.0	93.6	4.61	TAS			a_e		
STU	93.49	P	01:57:18.456	-0.1	93.5	4.61	TAS	73.5	1.06	a_e	mb	6.0
STU	93.49	sP	01:57:33.533	0.0	93.6	4.61	TAS			a_e		
TANN	91.46	P	01:57:09.256	0.1	93.5	4.61	TAS	54.1	1.37	a_e	mb	5.7
TANN	91.46	sP	01:57:24.433	0.1	93.6	4.61	TAS			a_e		
TNS	94.01	P	01:57:21.156	0.2	93.5	4.61	TAS	37.8	1.03	a_e	mb	5.7
TNS	94.01	sP	01:57:36.333	-0.3	93.6	4.61	TAS			a_e		
UBR	92.84	P	01:57:15.356	-0.1	93.5	4.61	TAS	49.4	1.28	a_e	mb	5.8
UBR	92.84	sP	01:57:30.433	0.2	93.6	4.61	TAS			a_e		
WET	91.09	P	01:57:07.606	0.2	93.5	4.61	TAS	75.7	1.28	m_e	mb	5.9
WET	91.09	sP	01:57:22.733	0.2	93.6	4.61	TAS			a_e		
WLF	95.49	P	01:57:28.006	0.2	93.5	4.61	TAS	41.2	1.39	a_e	mb	5.7
WLF	95.49	sP	01:57:43.133		93.6	4.61	TAS			a_e		

Event 1118001 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/18	00:59:58.72			30.6510	139.4080				33.0			17		84.50	89.91	m i ke	BGR
1118007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1118007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	86.07		P	01:12:35.498	-0.1	42.6		4.80		TAS		51.3	1.39	m_e	mb 5.5
BFO	89.91		P	01:12:53.893		42.6		4.80		TAS		12.0	0.84	m_e	mb 5.2
BSEG	84.87		P	01:12:29.925	0.1	42.6		4.80		TAS		87.9	0.95	m_e	mb 6.0
CLL	85.68		P	01:12:33.573	-0.1	42.6		4.80		TAS		44.8	0.90	m_e	mb 5.6
CLZ	86.40		P	01:12:37.669	0.4	42.6		4.80		TAS		64.7	1.48	m_e	mb 5.5
FLT1	85.68		P	01:12:33.353	-0.4	42.6		4.80		TAS		63.0	0.99	m_e	mb 5.7
FUR	88.74		P	01:12:48.658		42.6		4.80		TAS		25.8	0.94	m_e	mb 5.4
GEC2	87.13		P	01:12:40.682		42.6		4.80		TAS		13.4	0.97	m_e	mb 5.0
GOR1	85.17		P	01:12:31.423	0.1	42.6		4.80		TAS		87.6	1.25	m_e	mb 5.8
GRA1	87.64		P	01:12:43.170	-0.2	42.6		4.80		TAS		73.7	1.46	m_e	mb 5.8
IBBN	87.11		P	01:12:40.635	0.0	42.6		4.80		TAS		45.5	1.02	m_e	mb 5.5
MOX	86.76		P	01:12:38.892	0.0	42.6		4.80		TAS		10.7	1.00	m_e	mb 4.9
NEUB	86.29		P	01:12:36.586	-0.1	42.6		4.80		TAS		42.6	0.96	m_e	mb 5.5
PLN	86.64		P	01:12:38.561	-0.0	42.6		4.80		TAS		60.3	2.58	m_e	mb 5.3
RETH	86.15		P	01:12:36.013	0.0	42.6		4.80		TAS		58.1	1.29	m_e	mb 5.5
RUE	84.50		P	01:12:28.118	0.0	42.6		4.80		TAS		74.3	0.92	m_e	mb 5.9
WET	87.29		P	01:12:41.491	0.2	42.6		4.80		TAS		14.8	1.25	m_e	mb 5.0

Event 1118002 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/18	04:42:16.40			2.2870	99.2810				53.4	1.2		8		85.39	87.55	m i ke	BGR
OrigID 1118008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1118008
Ms	4.2		BGR	1118008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	85.91		P	04:54:53.337		90.0		4.84		TAS		19.3	1.13	m_e	mb 5.1
CLL	85.91		pP	04:55:08.983						T__				m_e	
CLZ	87.55		P	04:55:01.564	0.1	90.0		4.84		TAS		65.2	1.76	m_e	mb 5.7
GEC2	85.39		P	04:54:51.076		90.0		4.84		TAS		85.3	1.62	m_e	mb 5.7
GEC2	85.39		pP	04:55:06.263						T__				m_e	
GRA1	87.03		P	04:54:58.755		90.0		4.84		TAS		149.8	2.15	m_e	mb 5.7
GRA1	87.03		L	05:32:01.410						T__		102.0	20.60	m_e	Ms 4.2
MOX	86.77		P	04:54:57.701		90.0		4.84		TAS		32.8	1.50	m_e	mb 5.2
MOX	86.77		L	05:39:44.764						T__		107.9	20.20	m_e	Ms 4.2
NEUB	86.68		P	04:54:57.352		90.0		4.84		TAS		48.5	1.19	m_e	mb 5.5
TANN	86.23		P	04:54:55.112		90.0		4.84		TAS		33.3	1.65	m_e	mb 5.2
WET	85.94		P	04:54:53.706		90.0		4.84		TAS		64.1	1.58	m_e	mb 5.5
WET	85.94		pP	04:55:09.001						T__				m_e	



Event 1119001 Poland  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/11/19 09:27:11.67 0.41 0.70 51.5070 16.1800 5.6 2.2 13 1.0 12 212 0.67 3.64 m i ki BGR  
 1119007

Magnitude Err Nsta Author OrigID  
 ML 4.1 BGR 1119007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	2.00		Pn	09:27:45.004	-0.6					T__				m_e	
CLL	2.00		Pg	09:27:48.650	-0.7					T__				m_e	
CLL	2.00		Sg	09:28:15.209	0.1					T__				m_e ML	3.8
DPC	1.16		Sg	09:27:48.851	0.4					T__				m_e	
DPC	1.16		Pg	09:27:33.708	0.2					T__				m_e ML	4.4
GEC2	3.10		Pn	09:28:01.519	1.0					T__				m_e ML	4.1
GRA1	3.64		Sg	09:29:07.602	0.3					T__				m_e	
GRA1	3.64		Pn	09:28:09.005	1.2					T__				m_e ML	4.6
KSP	0.67		Sg	09:27:33.778	0.8					T__				m_e	
KSP	0.67		Pg	09:27:24.877	0.6					T__				m_e ML	3.4
MORC	1.94		Sg	09:28:12.381	-0.8					T__				m_e	
MORC	1.94		Pn	09:27:45.058	0.3					T__				m_e ML	4.2
OJC	2.63		Sg	09:28:34.945	-0.2					T__				m_e	
OJC	2.63		Pn	09:27:53.123	-1.0					T__				m_e ML	4.1
OJC	2.63		Pg	09:28:00.699	-0.5					T__				m_e	
OKC	2.09		Sg	09:28:17.363	-0.6					T__				m_e	
OKC	2.09		Pn	09:27:46.664	-0.1					T__				m_e ML	3.7
OKC	2.09		Pg	09:27:51.015	0.0					T__				m_e	
ROTZ	3.07		Sg	09:28:48.598	-0.6					T__				m_e	
ROTZ	3.07		Pn	09:28:00.486	0.5					T__				m_e ML	4.0
TANN	2.59		Sg	09:28:33.742	-0.2					T__				m_e ML	4.2
WERD	2.67		Sg	09:28:34.667	-1.7					T__				m_e	
WERD	2.67		Pn	09:27:55.068	0.5					T__				m_e ML	4.1
WERD	2.67		Pg	09:28:02.906	1.0					T__				m_e	
WET	3.17		Sg	09:28:51.763	-0.6					T__				m_e	
WET	3.17		Pn	09:28:02.101	0.7					T__				m_e ML	4.1

Event 1120002 Macquarie Island, Australia, region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2020/11/20 03:19:08.58 -59.1320 156.7130 33.0 6 156.00 161.12 m i ke BGR  
 1120008

Magnitude Err Nsta Author OrigID

Ms 5.4 BGR 1120008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	158.62		PKPdf	03:39:04.765	0.5	128.7		1.28		TAS				m_e	
BRG	157.38		PKPdf	03:39:02.374	1.2	128.7		1.28		TAS				m_e	
BUG	161.12		PKPdf	03:39:08.290		128.7		1.28		TAS				m_e	
CLL	158.12		PKPdf	03:39:04.610		128.7		1.28		TAS				m_e	
CLZ	159.77		PKPdf	03:39:06.278		128.7		1.28		TAS				m_e	
FLT1	159.60		PKPdf	03:39:05.838		128.7		1.28		TAS				m_e	
GEC2	156.26		PKPdf	03:39:01.264	-0.4	128.7		1.28		TAS				m_e	
GTTG	159.81		PKPdf	03:39:06.368		128.7		1.28		TAS				m_e	
MOX	158.44		PKPdf	03:39:04.645		128.7		1.28		TAS				m_e	
MOX	158.44		L	05:00:13.867						T__		559.8	21.00	a_e Ms	5.4
RJOB	156.00		PKPdf	03:39:00.583		128.7		1.28		TAS				m_e	
TANN	157.87		PKPdf	03:39:02.833	0.5	128.7		1.28		TAS				m_e	
TNS	159.78		PKPdf	03:39:06.627		128.7		1.28		TAS				m_e	
UBR	157.30		PKPdf	03:39:02.182	0.5	128.7		1.28		TAS				m_e	
WET	156.87		PKPdf	03:39:01.621	0.5	128.7		1.28		TAS				m_e	

Event 1120005 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/20	23:16:38.33			-21.7620	169.5150				33.0			17		145.14	149.46	m i ke	BGR
	1120011																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.50		PKPbc	23:36:12.664	0.0	39.4		2.88		TAS				m_e	
BFO	149.46		PKPbc	23:36:23.948	-0.5	39.4		2.88		TAS				m_e	
BRG	145.19		PKPbc	23:36:11.200	-0.4	39.4		2.88		TAS				m_e	
CLL	145.25		PKPbc	23:36:11.630	-0.1	39.4		2.88		TAS				m_e	
CLZ	145.84		PKPbc	23:36:13.663	0.7	39.4		2.88		TAS				m_e	
FLT1	145.14		PKPbc	23:36:10.769	-0.8	39.4		2.88		TAS				m_e	
GEC2	146.79		PKPbc	23:36:16.627	0.3	39.4		2.88		TAS				m_e	
GRA1	147.23		PKPbc	23:36:17.833	0.8	39.4		2.88		TAS				m_e	
GTTG	146.23		PKPbc	23:36:14.532	0.5	39.4		2.88		TAS				m_e	
IBBN	146.35		PKPbc	23:36:14.990	-0.4	39.4		2.88		TAS				m_e	
MOX	146.32		PKPbc	23:36:14.473	-0.4	39.4		2.88		TAS				m_e	
NEUB	145.83		PKPbc	23:36:13.515	0.2	39.4		2.88		TAS				m_e	
TANN	146.16		PKPbc	23:36:14.559	0.2	39.4		2.88		TAS				m_e	
TNS	147.87		PKPbc	23:36:19.384	-0.1	39.4		2.88		TAS				m_e	
UBR	149.25		PKPbc	23:36:23.338	-0.5	39.4		2.88		TAS				m_e	
WET	146.93		PKPbc	23:36:16.627	-0.0	39.4		2.88		TAS				m_e	
WLF	149.14		PKPbc	23:36:23.691	0.4	39.4		2.88		TAS				m_e	

Event 1121003 Near coast of central Chile

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/21	02:11:47.90			-30.6590	-71.3900				54.0					108.35	108.99	m i ke	NEIC
OrigID 1121042																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.0		BGR	1121009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	108.35		L	03:11:09.796						T__		427.3	21.70	a_e Ms	5.0
MOX	108.99		L	03:12:24.243						T__		482.3	20.80	a_e Ms	5.0

Event 1122002 Northern Algeria

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	03:52:19.02	1.85	1.53	32.5650	6.8990	68.9	51.1	89	5.0				20 343	15.29	21.49	m i ke	BGR
OrigID 1122008																	

Magnitude	Err	Nsta	Author	OrigID
Ms	4.4		BGR	1122008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	19.74		P	03:56:53.681	3.1					T__				m_e	
BFO	15.78		P	03:55:56.094	-1.8					T__				m_e	
BRG	19.01		P	03:56:40.204	-0.8					T__				m_e	
BSEG	21.49		P	03:57:15.977	2.1					T__				m_e	
BUG	18.86		P	03:56:38.502	-0.4					T__				m_e	
CLL	19.25		P	03:56:44.022	-0.1					T__				m_e	
CLZ	19.43		P	03:56:48.132	1.7					T__				m_e	
FLT1	20.00		P	03:56:56.373	2.3					T__				m_e	
FUR	15.93		P	03:55:59.368	-0.4					T__				m_e	
GEC2	17.04		P	03:56:13.061	-1.7					T__				m_e	
GRA1	17.41		P	03:56:19.518	-0.1					T__				m_e	
GRA1	17.41		L	04:01:53.217						T__		2629.0	18.60	a_e Ms	4.5
GTTG	19.09		P	03:56:44.474	2.4					T__				m_e	
KAST	18.65		P	03:56:36.550	0.4					T__				m_e	
MOX	18.39		P	03:56:32.017	-0.7					T__				m_e	
MOX	18.39		L	04:02:16.728						T__		1616.6	18.50	a_e Ms	4.3
STU	16.28		P	03:56:03.299	-1.2					T__				m_e	
TANN	18.30		P	03:56:30.669	-0.8					T__				m_e	
TNS	17.68		P	03:56:22.993	-0.1					T__				m_e	
UBR	15.29		P	03:55:50.813	-0.5					T__				m_e	

WET	17.16	P	03:56:15.690	-0.5							T__						m_e
WLF	17.09	P	03:56:12.303	-3.0							T__						m_e

Event 1122003 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	03:54:50.89			-18.9360	-176.8740				33.0			20		144.54	150.68	m i ke	BGR
	1122009																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	146.26		PKPbc	04:14:28.098	0.0	14.8		2.72		TAS					m_e
BFO	150.28		PKPbc	04:14:38.665	-0.4	14.8		2.72		TAS					m_e
BRG	146.91		PKPbc	04:14:30.101	0.3	14.8		2.72		TAS					m_e
BSEG	144.54		PKPbc	04:14:22.735	-0.7	14.8		2.72		TAS					m_e
CLL	146.68		PKPbc	04:14:29.171	0.4	14.8		2.72		TAS					m_e
CLZ	146.58		PKPbc	04:14:28.957	0.0	14.8		2.72		TAS					m_e
FLT1	145.99		PKPbc	04:14:27.097	0.1	14.8		2.72		TAS					m_e
FUR	150.01		PKPbc	04:14:38.110		14.8		2.72		TAS					m_e
GEC2	148.88		PKPbc	04:14:35.249	-0.7	14.8		2.72		TAS					m_e
GRA1	148.55		PKPbc	04:14:34.105	0.0	14.8		2.72		TAS					m_e
GTTG	146.93		PKPbc	04:14:29.772	0.2	14.8		2.72		TAS					m_e
IBBN	146.41		PKPbc	04:14:28.628	0.2	14.8		2.72		TAS					m_e
KAST	147.44		PKPbc	04:14:31.388	0.3	14.8		2.72		TAS					m_e
MOX	147.56		PKPbc	04:14:31.745	0.3	14.8		2.72		TAS					m_e
NEUB	147.01		PKPbc	04:14:29.986	0.2	14.8		2.72		TAS					m_e
RUE	145.42		PKPbc	04:14:25.558	-0.2	14.8		2.72		TAS					m_e
STU	149.74		PKPbc	04:14:37.242	-0.1	14.8		2.72		TAS					m_e
TANN	147.64		PKPbc	04:14:31.655	0.5	14.8		2.72		TAS					m_e
TNS	148.40		PKPbc	04:14:34.086	0.3	14.8		2.72		TAS					m_e
UBR	150.68		PKPbc	04:14:39.611		14.8		2.72		TAS					m_e
WET	148.77		PKPbc	04:14:34.677	-0.1	14.8		2.72		TAS					m_e
WLF	149.15		PKPbc	04:14:36.600	-0.2	14.8		2.72		TAS					m_e

Event 1122004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	05:18:36.18			-18.2460	175.1210				33.0			9		145.91	148.12	m i ke	BGR
	1122010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.05		PKPbc	05:38:18.423	-0.5	28.1		3.37		TAS				m_e	
FUR	147.32		PKPbc	05:38:16.451	0.0	28.1		3.37		TAS				m_e	
GEC2	145.91		PKPbc	05:38:12.130	0.4	28.1		3.37		TAS				m_e	
GRA1	145.99		PKPbc	05:38:12.036	0.1	28.1		3.37		TAS				m_e	
STU	147.41		PKPbc	05:38:17.108	0.4	28.1		3.37		TAS				m_e	
TNS	146.28		PKPbc	05:38:13.070	-0.0	28.1		3.37		TAS				m_e	
UBR	148.12		PKPbc	05:38:19.268	0.2	28.1		3.37		TAS				m_e	
WET	145.94		PKPbc	05:38:11.191	-0.6	28.1		3.37		TAS				m_e	
WLF	147.34		PKPbc	05:38:17.014	0.1	28.1		3.37		TAS				m_e	

Event 1122005 Near east coast of eastern Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	10:05:53.25			36.4900	140.6500				45.0	1.1		23		79.96	85.38	m i ke	BGR
OrigID 1122011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	1122011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	81.45		P	10:18:07.856	-0.1	38.8		5.16		TAS		52.9	1.17	m_e mb	5.5
ASSE	81.45		pP	10:18:21.058						T__				m_e	
BFO	85.38		P	10:18:27.852	-0.4	38.8		5.16		TAS				m_e	
BRG	81.11		P	10:18:06.386	0.1	38.8		5.16		TAS		69.8	1.05	m_e mb	5.6
BSEG	80.16		P	10:18:01.340	0.0	38.8		5.16		TAS		112.3	1.05	m_e mb	5.7
BUG	83.27		P	10:18:17.375	0.0	38.8		5.16		TAS		19.3	0.82	m_e mb	5.4
CLL	81.16		P	10:18:06.323	-0.2	38.8		5.16		TAS		92.7	0.95	m_e mb	5.8
CLZ	81.78		P	10:18:10.028	0.3	38.8		5.16		TAS		183.2	1.29	m_e mb	6.0
FLT1	81.07		P	10:18:05.492	-0.5	38.8		5.16		TAS		49.9	0.84	m_e mb	5.6
FUR	84.31		P	10:18:22.933	0.2	38.8		5.16		TAS		78.9	0.81	m_e mb	6.0
FUR	84.31		pP	10:18:35.674						T__				m_e	
GEC2	82.76		P	10:18:14.883	0.2	38.8		5.16		TAS		48.9	1.08	m_e mb	5.7
GRA1	83.14		P	10:18:17.055	0.4	38.8		5.16		TAS		103.3	0.94	m_e mb	6.0
GTTG	82.18		P	10:18:11.817	0.1	38.8		5.16		TAS		45.1	0.92	m_e mb	5.6
IBBN	82.39		P	10:18:12.839	0.0	38.8		5.16		TAS		54.4	0.82	m_e mb	5.7
KAST	83.04		P	10:18:16.480	0.3	38.8		5.16		TAS		17.5	0.86	m_e mb	5.3
MOX	82.23		P	10:18:11.817	-0.2	38.8		5.16		TAS		22.3	0.85	m_e mb	5.3
MOX	82.23		pP	10:18:25.065						T__				m_e	
NEUB	81.74		P	10:18:09.389	-0.1	38.8		5.16		TAS		72.2	0.88	m_e mb	5.8
RUE	79.96		P	10:18:00.381	0.1	38.8		5.16		TAS		254.5	1.28	m_e mb	6.0
STU	84.68		P	10:18:24.594	-0.1	38.8		5.16		TAS		182.4	0.91	m_e mb	6.3
TANN	82.07		P	10:18:10.922	-0.3	38.8		5.16		TAS		15.4	0.92	m_e mb	5.1
TNS	83.81		P	10:18:20.250	0.1	38.8		5.16		TAS		16.2	0.88	m_e mb	5.3
TNS	83.81		pP	10:18:33.246						T__				m_e	
UBR	85.17		P	10:18:26.894	-0.3	38.8		5.16		TAS				m_e	

./bul2011.txt Wed Mar 30 12:17:24 2022 30

WET	82.87	P	10:18:15.586	0.2	38.8	5.16	TAS	50.1	1.09	m_e	mb	5.7
WLF	85.13	P	10:18:27.213	0.2	38.8	5.16	TAS	48.8	1.15	m_e	mb	5.6

Event 1122006 Northern and central Siberia, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	10:12:12.03			62.3430	114.8470				33.0					52.97	52.97	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1122012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	52.97		P	10:21:24.360		32.5		6.79		TAS		20.2	1.07	m_e	mb	5.0

Event 1122007 East of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	16:43:31.15			46.8320	154.0090				33.0				8	76.08	80.49	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1122013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	80.49		P	16:55:39.353		25.0		5.53		TAS		4.0	1.13	m_e	mb	4.3
CLL	76.53		P	16:55:17.213	0.3	25.0		5.53		TAS		16.6	0.99	m_e	mb	5.1
CLZ	76.75		P	16:55:18.366		25.0		5.53		TAS		7.9	0.96	m_e	mb	4.8
FLT1	76.08		P	16:55:14.899	-0.3	25.0		5.53		TAS		7.6	0.91	m_e	mb	4.8
FUR	79.85		P	16:55:35.601		25.0		5.53		TAS		9.4	0.87	m_e	mb	4.7
GEC2	78.53		P	16:55:28.156		25.0		5.53		TAS		4.5	0.94	m_e	mb	4.5
GRA1	78.48		P	16:55:28.034		25.0		5.53		TAS		9.0	0.84	m_e	mb	4.8
GTTG	77.12		P	16:55:20.628		25.0		5.53		TAS		20.8	1.21	m_e	mb	5.1
IBBN	76.97		P	16:55:20.060		25.0		5.53		TAS		9.8	0.83	m_e	mb	5.0
KAST	77.83		P	16:55:24.268		25.0		5.53		TAS		6.1	1.03	m_e	mb	4.7
MOX	77.50		P	16:55:22.554		25.0		5.53		TAS		6.8	1.06	m_e	mb	4.7
STU	79.86		P	16:55:35.359		25.0		5.53		TAS		21.2	0.98	m_e	mb	5.0
TANN	77.48		P	16:55:22.345	-0.0	25.0		5.53		TAS		2.6	0.82	m_e	mb	4.4
TNS	78.72		P	16:55:29.524	0.3	25.0		5.53		TAS		4.7	0.84	m_e	mb	4.5
WET	78.50		P	16:55:28.127		25.0		5.53		TAS		9.8	0.92	m_e	mb	4.8

Event 1122008 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/22	18:24:53.29			45.9630	146.9150				33.0					77.14	77.14	m i ke	BGR
OrigID 1122014																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1122014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	77.14		P	18:36:42.750		26.2		4.69		TAS		8.6	0.88	m_e	mb 4.9

Event 1123002 Queen Elizabeth Islands, Canada

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/23	03:50:29.15			74.3690	-95.6140				33.3	0.7		21		42.85	48.63	m i ke	BGR
OrigID 1123008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1123008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	44.61		P	03:58:37.577	-0.1	339.3		7.82		TAS		7.9	0.83	m_e	mb 4.7
BFO	47.60		P	03:59:00.716	-0.1	339.3		7.82		TAS		12.6	0.86	m_e	mb 5.1
BRG	46.51		P	03:58:52.567	0.2	339.3		7.82		TAS		7.1	0.85	m_e	mb 4.8
BRG	46.51		pP	03:59:01.420						T__				m_e	
BSEG	42.85		P	03:58:23.997	0.1	339.3		7.82		TAS		36.3	0.77	m_e	mb 5.2
CLL	45.90		P	03:58:47.517	-0.1	339.3		7.82		TAS		8.7	0.68	m_e	mb 4.9
CLZ	44.80		P	03:58:39.221	-0.0	339.3		7.82		TAS		20.7	0.84	m_e	mb 5.1
FLT1	44.55		P	03:58:37.090	-0.1	339.3		7.82		TAS		9.2	0.84	m_e	mb 4.7
FUR	48.45		P	03:59:07.707	-0.1	339.3		7.82		TAS		28.4	0.81	m_e	mb 5.3
FUR	48.45		pP	03:59:16.656						T__				m_e	
GEC2	48.36		P	03:59:07.243	0.2	339.3		7.82		TAS		5.6	0.78	m_e	mb 4.8
GEC2	48.36		pP	03:59:16.136						T__				m_e	
GRA1	47.01		P	03:58:56.300	-0.2	339.3		7.82		TAS		24.1	0.76	m_e	mb 5.4
GRA1	47.01		pP	03:59:05.430						T__				m_e	
GTTG	44.99		P	03:58:40.600	-0.1	339.3		7.82		TAS		55.5	0.92	m_e	mb 5.5
IBBN	43.77		P	03:58:31.363	0.3	339.3		7.82		TAS		13.2	0.78	m_e	mb 4.7
KAST	44.95		P	03:58:40.120	-0.2	339.3		7.82		TAS		13.1	0.89	m_e	mb 4.9
MOX	46.20		P	03:58:49.773	-0.4	339.3		7.82		TAS		9.1	0.57	m_e	mb 5.0
NEUB	45.73		P	03:58:46.233	-0.2	339.3		7.82		TAS		11.6	0.87	m_e	mb 4.9
STU	47.39		P	03:58:59.203	-0.2	339.3		7.82		TAS		32.7	0.90	m_e	mb 5.5
TANN	46.61		P	03:58:53.407	0.1	339.3		7.82		TAS		11.3	0.87	m_e	mb 5.0
TNS	45.86		P	03:58:47.517	0.1	339.3		7.82		TAS		11.1	0.80	m_e	mb 5.0
UBR	48.63		P	03:59:09.017	-0.1	339.3		7.82		TAS		18.2	0.77	m_e	mb 5.2

WET	47.90	P	03:59:03.769	0.4	339.3	7.82	TAS	4.9	0.79	m_e mb	4.7
WLF	45.84	P	03:58:47.054	0.3	339.3	7.82	TAS	8.4	0.88	m_e mb	4.8

Event 1124002 Mid-Indian Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/24	22:02:51.13			-12.3460	67.0030				10.0					78.78	78.78	m i ke	BGR

OrigID 1124008

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1124008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.78		P	22:14:51.686		122.4		6.78		TAS		24.3	1.11	m_e mb	5.1

Event 1125002 Marshall Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/25	14:26:38.05			10.5090	174.3110				33.0					118.13	118.13	m i ke	BGR

OrigID 1125008

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

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	118.13		PKPdf	14:45:21.615		16.7		1.62		TAS				m_e	

Event 1125004 Iran-Turkmenistan border region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/25	20:11:09.44			36.0730	60.6050				33.0					37.96	37.96	m i ke	BGR

OrigID 1125010

Magnitude	Err	Nsta	Author	OrigID
mb	4.2		BGR	1125010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	37.96		P	20:18:23.581		100.0		8.33		TAS		4.3	0.85	m_e mb	4.2



Event 1126001 Ninigo Islands, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/26	03:48:05.47			-2.8340	143.1550				33.0				9	116.14	120.76	m i ke	BGR
OrigID 1126007																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	1126007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	117.00		PKPdf	04:06:46.766	0.1	57.3		1.96		TAS					m_e
BFO	120.40		PKPdf	04:06:53.464		57.3		1.96		TAS					m_e
BSEG	116.14		PKPdf	04:06:45.476	0.1	57.3		1.96		TAS					m_e
BUG	119.11		PKPdf	04:06:51.003		57.3		1.96		TAS					m_e
CLL	116.24		PKPdf	04:06:45.427	0.2	57.3		1.96		TAS					m_e
CLZ	117.31		PKPdf	04:06:47.440	0.1	57.3		1.96		TAS					m_e
FLT1	116.60		PKPdf	04:06:46.028	0.1	57.3		1.96		TAS					m_e
FUR	118.85		PKPdf	04:06:50.291		57.3		1.96		TAS					m_e
GEC2	117.12		PKPdf	04:06:47.349		57.3		1.96		TAS					m_e
GRA1	118.06		PKPdf	04:06:49.031		57.3		1.96		TAS					m_e
GRA1	118.06		L	04:59:32.766						T__		589.3	21.72	a_e Ms	5.2
GTTG	117.69		PKPdf	04:06:48.237	0.0	57.3		1.96		TAS					m_e
KAST	118.68		PKPdf	04:06:49.970		57.3		1.96		TAS					m_e
MOX	117.33		PKPdf	04:06:47.430		57.3		1.96		TAS					m_e
MOX	117.33		L	04:59:26.727						T__		606.6	21.86	a_e Ms	5.2
STU	119.68		PKPdf	04:06:52.271		57.3		1.96		TAS					m_e
TANN	117.00		PKPdf	04:06:46.783		57.3		1.96		TAS					m_e
TNS	119.24		PKPdf	04:06:51.457		57.3		1.96		TAS					m_e
UBR	119.78		PKPdf	04:06:52.034		57.3		1.96		TAS					m_e
WET	117.44		PKPdf	04:06:47.884		57.3		1.96		TAS					m_e
WLF	120.76		PKPdf	04:06:54.472		57.3		1.96		TAS					m_e

Event 1126003 South Indian Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/26	17:04:48.30			-24.5120	48.6320				10.0				4	79.47	83.14	m i ke	BGR
OrigID 1126009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	1126009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	81.06		P	17:17:04.714		146.0		5.30		TAS					m_e
BRG	81.11		P	17:17:05.204		146.0		5.30		TAS					m_e
CLL	81.79		P	17:17:08.864	-0.0	146.0		5.30		TAS		9.8	1.16	m_e mb	4.8

CLZ	83.14	P	17:17:16.103	146.0	5.30	TAS	1.8	0.78	m_e	mb	4.4
FUR	79.78	P	17:16:58.330	146.0	5.30	TAS	12.1	0.63	m_e	mb	5.0
GEC2	79.47	P	17:16:56.545	146.0	5.30	TAS	1.0	0.86	m_e	mb	3.9
MOX	81.72	P	17:17:08.446	146.0	5.30	TAS	3.3	1.15	m_e	mb	4.4
TANN	81.23	P	17:17:05.939	146.0	5.30	TAS				m_e	
UBR	79.83	P	17:16:58.558	146.0	5.30	TAS	8.0	0.93	m_e	mb	4.6
WET	80.01	P	17:16:59.589	146.0	5.30	TAS	2.4	0.97	m_e	mb	4.1

## Event 1126004 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/26	17:27:12.24			33.5980	73.5770				232.6	0.4		14		46.07	51.15	m i ke	BGR
	1126010																

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1126010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	49.93		P	17:35:42.249	-0.1	85.1		7.87		TAS				m_e		
BRG	46.07		P	17:35:12.239	-0.1	85.1		7.87		TAS		7.1	0.75	m_e	mb	4.5
CLL	46.65		P	17:35:16.410	-0.1	85.1		7.87		TAS		4.0	0.78	m_e	mb	4.4
CLZ	48.26		P	17:35:29.129	-0.1	85.1		7.87		TAS				m_e		
FLT1	47.70		P	17:35:24.587	0.1	85.1		7.87		TAS		17.0	0.69	m_e	mb	5.2
GRA1	47.89		P	17:35:26.564	-0.1	85.1		7.87		TAS		5.7	0.67	m_e	mb	4.7
GTTG	48.53		P	17:35:31.173	-0.1	85.1		7.87		TAS		12.4	0.73	m_e	mb	5.1
IBBN	49.83		P	17:35:41.107	0.1	85.1		7.87		TAS		12.9	0.70	m_e	mb	5.2
MOX	47.56		P	17:35:23.709	-0.0	85.1		7.87		TAS		4.0	0.78	m_e	mb	4.5
NEUB	47.43		P	17:35:22.562	0.2	85.1		7.87		TAS		11.2	0.74	m_e	mb	5.0
NEUB	47.43		pP	17:36:12.202	-0.5					T__				m_e		
TANN	47.04		P	17:35:19.629	0.1	85.1		7.87		TAS		2.8	0.83	m_e	mb	4.2
TNS	49.61		P	17:35:40.090	0.2	85.1		7.87		TAS		4.6	0.74	m_e	mb	4.7
TNS	49.61		pP	17:36:29.565	-0.5					T__				m_e		
UBR	48.84		P	17:35:33.528		85.1		7.87		TAS		7.5	0.69	m_e	mb	4.9
WLF	51.15		P	17:35:52.317	0.2	85.1		7.87		TAS		8.4	0.79	m_e	mb	4.7

## Event 1127001 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/27	08:27:55.90			38.1800	38.5800				5.0			6		20.86	24.10	m i ke	EMSC
	1127033																

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	1127007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BE1	22.12		P	08:32:53.129	0.5	102.8		10.42		TAS				m_e	
BFO	24.10		P	08:33:12.906	-0.4	102.8		10.42		TAS		36.3	1.31	m_e mb	4.7
GEC2	20.86		P	08:32:38.471	-1.1	102.8		10.42		TAS		13.1	0.79	m_e mb	4.3
KW1	21.30		P	08:32:42.659	0.3	102.8		10.42		TAS				m_e	
ROTZ	22.10		P	08:32:52.664		102.8		10.42		TAS		17.8	1.46	m_e mb	4.3
UBR	22.79		P	08:33:00.342		102.8		10.42		TAS				m_e	
WET	21.47		P	08:32:44.753		102.8		10.42		TAS				m_e	

Event 1127003 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/27	18:45:04.83	0.43	0.63	50.0220	156.1130	8.9	5.6	129	22.0	1.4		22	130	73.02	78.23	m i ke	BGR
OrigID 1127009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1127009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.05		P	18:57:04.394	-0.2	22.4		5.72		TAS		22.2	0.87	m_e mb	5.3
BRG	74.31		P	18:56:42.794	-0.4	22.4		5.72		TAS		16.2	1.18	a_e mb	4.9
BUG	75.37		P	18:56:49.144	-0.0	22.4		5.72		TAS		16.5	0.85	a_e mb	5.1
CHRS	74.41		P	18:56:43.944	0.2	22.4		5.72		TAS		24.7	0.71	a_e mb	5.3
CLZ	74.30		P	18:56:43.544	0.4	22.4		5.72		TAS		26.9	0.93	a_e mb	5.3
FBE	74.42		P	18:56:43.282	-0.1	22.4		5.72		TAS		17.6	0.96	m_e mb	5.1
FUR	77.49		P	18:57:01.594	0.2	22.4		5.72		TAS		44.1	0.92	a_e mb	5.6
GEC2	76.23		P	18:56:54.294	0.1	22.4		5.72		TAS		14.5	0.58	a_e mb	5.3
GOR1	73.02		P	18:56:35.944	0.1	22.4		5.72		TAS		22.9	1.06	a_e mb	5.2
GTTG	74.67		P	18:56:45.166	-0.1	22.4		5.72		TAS		11.5	0.65	m_e mb	5.0
GTTG	74.67		pP	18:56:51.308	-0.1					T__				m_e	
GUNZ	75.19		P	18:56:48.394	0.1	22.4		5.72		TAS		14.2	0.82	a_e mb	5.0
GUNZ	75.19		pP	18:56:54.512	-0.1					T__				m_e	
MULD	75.13		P	18:56:47.944	0.0	22.4		5.72		TAS		10.0	0.73	a_e mb	4.9
MULD	75.13		pP	18:56:54.079	-0.1					T__				m_e	
NEUB	74.57		P	18:56:44.362	-0.3	22.4		5.72		TAS		17.1	0.71	m_e mb	5.2
NEUB	74.57		pP	18:56:50.949	-0.1					T__				m_e	
POSS	74.66		P	18:56:45.094	-0.1	22.4		5.72		TAS		27.8	0.66	a_e mb	5.4
RETH	73.70		P	18:56:39.705	0.1	22.4		5.72		TAS		7.7	0.81	m_e mb	4.8
SCHF	74.89		P	18:56:46.544	0.0	22.4		5.72		TAS		20.0	0.95	a_e mb	5.1
SCHF	74.89		pP	18:56:52.803	-0.1					T__				m_e	
TANN	75.11		P	18:56:47.894	0.1	22.4		5.72		TAS		17.2	1.27	a_e mb	4.9
UBR	78.23		P	18:57:05.644	-0.0	22.4		5.72		TAS		55.1	1.44	a_e mb	5.5
VITZ	75.25		P	18:56:48.644	0.1	22.4		5.72		TAS		40.5	1.11	a_e mb	5.4
WERD	75.12		P	18:56:47.944	0.1	22.4		5.72		TAS		17.2	1.03	a_e mb	5.0
WERD	75.12		pP	18:56:54.065	-0.1					T__				m_e	

WERN	75.25	P	18:56:48.794	0.2	22.4	5.72	TAS	24.0	0.63	a_e	mb	5.4
WIMM	74.33	P	18:56:42.944	-0.4	22.4	5.72	TAS	14.6	0.69	a_e	mb	5.1
WIMM	74.33	pP	18:56:49.628	-0.1			T__				m_e	

Event 1129001 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	04:24:52.70			29.4390	52.3040				33.0			7		36.97	36.97	m i ke	BGR
OrigID 1129007																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.4		BGR	1129007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	36.97		P	04:31:58.812		111.7		9.29		TAS		8.3	1.01	m_e	mb 4.4

Event 1129002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	09:01:35.60			-14.8100	167.2600				109.0					140.05	140.05	m i ke	NEIC
OrigID 1129041																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	140.05		PKPdf	09:20:51.717		37.8		1.38		TAS				m_e	
GRA1	140.05		pPKPdf	09:21:17.736						T__				m_e	

Event 1129003 Taiwan region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	13:42:11.23			23.3270	122.6230				33.0					85.27	85.27	m i ke	BGR
OrigID 1129009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	1129009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	85.27		P	13:54:44.269		63.3		4.40		TAS		5.0	1.05	m_e	mb 4.7

Event 1129004 Southern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	14:48:28.50			-4.9700	102.9400				58.0					94.89	94.89	m i ke	NEIC
OrigID 1129043																	

Magnitude	Err	Nsta	Author	OrigID
mb 4.8			BGR	1129010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	94.89		P	15:01:44.987		91.9		3.41		TAS		3.7	0.85	m_e mb	4.8

Event 1129005 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	15:57:40.72			51.3230	179.7290				33.0					78.75	78.75	m i ke	BGR
OrigID 1129011																	

Magnitude	Err	Nsta	Author	OrigID
mb 4.7			BGR	1129011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.75		P	16:09:39.068		10.1		4.85		TAS		6.3	0.84	m_e mb	4.7

Event 1129006 Jujuy Province, Argentina

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	16:40:44.20			-23.2600	-65.0200				10.0					99.06	99.06	m i ke	NEIC
OrigID 1129045																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	99.06		Pdiff	16:54:27.628						T__				m_e	
GRA1	99.06		PP	16:58:22.922		244.7		7.59		TAS				m_e	

Event 1129007 Kermadec Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	21:45:22.40			-31.8600	179.2300				458.0			23		156.48	162.10	m i ke	NEIC
OrigID 1129046																	

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

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	158.02		PKPab	22:05:00.511	-0.4	31.2		4.42		TAS					m_e
BFO	162.10		PKPab	22:05:18.546		31.2		4.42		TAS					a_e
BRG	158.06		PKPab	22:05:00.746	0.1	31.2		4.42		TAS					m_e
BSEG	156.48		PKPab	22:04:53.996	0.1	31.2		4.42		TAS					a_e
CLL	158.03		PKPab	22:05:00.446	0.1	31.2		4.42		TAS					a_e
CLZ	158.36		PKPab	22:05:02.186	-0.3	31.2		4.42		TAS					m_e
FLT1	157.69		PKPab	22:04:58.796	-0.0	31.2		4.42		TAS					a_e
FUR	161.28		PKPab	22:05:15.196		31.2		4.42		TAS					a_e
GOR1	157.08		PKPab	22:04:56.896	-0.2	31.2		4.42		TAS					a_e
GRA1	160.00		PKPab	22:05:09.896	0.2	31.2		4.42		TAS					a_e
GTTG	158.74		PKPab	22:05:03.946	0.2	31.2		4.42		TAS					a_e
IBBN	158.57		PKPab	22:05:02.996	-0.0	31.2		4.42		TAS					a_e
KAST	159.45		PKPab	22:05:06.757	0.5	31.2		4.42		TAS					m_e
MOX	159.05		PKPab	22:05:05.246	-0.2	31.2		4.42		TAS					a_e
NEUB	158.52		PKPab	22:05:02.896	0.2	31.2		4.42		TAS					a_e
PLN	159.01		PKPab	22:05:05.246	-0.2	31.2		4.42		TAS					a_e
RETH	157.81		PKPab	22:04:59.527	-0.3	31.2		4.42		TAS					m_e
RUE	156.78		PKPab	22:04:55.296	-0.3	31.2		4.42		TAS					a_e
STU	161.45		PKPab	22:05:15.896		31.2		4.42		TAS					a_e
TANN	158.96		PKPab	22:05:04.896	0.1	31.2		4.42		TAS					a_e
TNS	160.34		PKPab	22:05:10.746	0.0	31.2		4.42		TAS					a_e
WET	159.87		PKPab	22:05:09.046	0.1	31.2		4.42		TAS					a_e
WLF	161.40		PKPab	22:05:15.880		31.2		4.42		TAS					m_e

Event 1130001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/29	23:56:54.30			-17.7000	-174.7900				10.0			25		144.37	149.74	m i ke	NEIC
OrigID 1130040																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.2		BGR	1130007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	145.29		PKPbc	00:16:32.033	-0.2	10.8		3.03		TAS					a_e
BFO	149.25		PKPbc	00:16:43.383		10.8		3.03		TAS					a_e
BRG	146.09		PKPbc	00:16:34.683	0.2	10.8		3.03		TAS					a_e
BUG	146.20		PKPbc	00:16:34.833	0.1	10.8		3.03		TAS					a_e

CLL	145.81	PKPbc	00:16:33.483	0.1	10.8	3.03	TAS	a_e										
CLZ	145.60	PKPbc	00:16:33.233	-0.1	10.8	3.03	TAS	a_e										
FLT1	145.03	PKPbc	00:16:30.533	0.2	10.8	3.03	TAS	a_e										
FUR	149.12	PKPbc	00:16:43.083		10.8	3.03	TAS	a_e										
GEC2	148.09	PKPbc	00:16:40.483	-0.6	10.8	3.03	TAS	a_e										
GOR1	144.37	PKPbc	00:16:28.883	-0.2	10.8	3.03	TAS	a_e										
GRA1	147.63	PKPbc	00:16:39.450	-0.4	10.8	3.03	TAS	m_e										
GRA1	147.63	L	01:20:38.621				T__		449.7	22.00	a_e	Ms					5.2	
GTTG	145.93	PKPbc	00:16:34.233	0.1	10.8	3.03	TAS	a_e										
IBBN	145.32	PKPbc	00:16:32.133	0.3	10.8	3.03	TAS	a_e										
KAST	146.38	PKPbc	00:16:35.583	0.1	10.8	3.03	TAS	a_e										
MOX	146.64	PKPbc	00:16:36.233	1.4	10.8	3.03	TAS	a_e										
MOX	146.64	L	01:28:34.617				T__		418.5	21.70	a_e	Ms					5.2	
NEUB	146.09	PKPbc	00:16:34.533	0.9	10.8	3.03	TAS	a_e										
PLN	146.73	PKPbc	00:16:37.283	0.0	10.8	3.03	TAS	a_e										
RETH	144.79	PKPbc	00:16:30.283	-0.7	10.8	3.03	TAS	a_e										
RUE	144.56	PKPbc	00:16:28.983	0.0	10.8	3.03	TAS	a_e										
STU	148.74	PKPbc	00:16:42.133	-1.0	10.8	3.03	TAS	a_e										
TANN	146.76	PKPbc	00:16:36.683	2.1	10.8	3.03	TAS	a_e										
TNS	147.36	PKPbc	00:16:39.833	0.0	10.8	3.03	TAS	a_e										
UBR	149.74	PKPbc	00:16:44.533		10.8	3.03	TAS	a_e										
WET	147.94	PKPbc	00:16:40.133	-0.7	10.8	3.03	TAS	a_e										
WLF	148.01	PKPbc	00:16:40.683	-0.2	10.8	3.03	TAS	m_e										

Event 1130002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/30	00:37:04.60			-17.4300	-174.7200				10.0					147.37	147.37	m i ke	NEIC
1130041																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	147.37		PKP	00:56:48.141		10.6		2.15		TAS					m_e

Event 1130003 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/30	04:59:07.28			52.1690	-167.3510				33.0					78.38	78.38	m i ke	BGR
1130009																	

Magnitude Err Nsta Author OrigID

mb	5.1		BGR	1130009
----	-----	--	-----	---------

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.38		P	05:11:03.533		356.4		4.91		TAS		17.2	0.89	m_e mb	5.1

Event 1130005 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/30	17:00:00.92			51.7890	-167.3520				33.0					78.76	78.76	m i ke	BGR
OrigID 1130011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1130011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.76		P	17:11:59.270		357.0		5.01		TAS		14.1	0.90	m_e mb	5.0

Event 1130006 Primorye, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2020/11/30	22:54:38.27			49.2000	140.7400				576.5	5.8		26		67.49	74.41	m i ke	BGR
OrigID 1130012																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.8		BGR	1130012
MBB	7.1		BGR	1130012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	70.38		S	23:13:24.697	0.6	31.9		10.56		TAS				m_e	
ASSE	70.38		P	23:04:55.782	0.0	32.7		5.75		TAS		486.3	0.90	a_e MBB	7.0
ASSE	70.38		sPP	23:10:27.239	0.5	34.9		7.72		TAS				m_e	
BFO	74.41		S	23:14:06.756		31.9		10.56		TAS				m_e	
BFO	74.41		P	23:05:18.632	-0.3	32.7		5.75		TAS		544.7	0.92	a_e MBB	6.9
BFO	74.41		sPP	23:10:57.063		34.9		7.72		TAS				m_e	
BRG	70.32		S	23:13:23.500	0.8	31.9		10.56		TAS				m_e	
BRG	70.32		P	23:04:55.132	-0.2	32.7		5.75		TAS		433.5	0.89	m_e MBB	6.9
BRG	70.32		pP	23:06:55.747						T__				m_e	
BRG	70.32		sPP	23:10:25.446	-3.3	34.9		7.72		TAS				m_e	
BSEG	68.96		S	23:13:08.818	1.1	31.9		10.56		TAS				m_e	
BSEG	68.96		P	23:04:47.682	0.1	32.7		5.75		TAS		925.7	0.82	a_e MBB	7.3
BSEG	68.96		sPP	23:10:16.156	3.9	34.9		7.72		TAS				m_e	
BUG	72.06		S	23:13:42.676		31.9		10.56		TAS				m_e	
BUG	72.06		P	23:05:05.382	-0.1	32.7		5.75		TAS		1000.8	0.95	a_e MBB	7.1
BUG	72.06		sPP	23:10:35.061		34.9		7.72		TAS				m_e	



CLL	70.29	S	23:13:22.327	-1.0	31.9	10.56	TAS			m_e		
CLL	70.29	P	23:04:54.732	-0.5	32.7	5.75	TAS	1847.9	0.67	a_e	MBB	7.4
CLL	70.29	sPP	23:10:22.186	-3.4	34.9	7.72	TAS			m_e		
CLZ	70.72	S	23:13:28.654	0.9	31.9	10.56	TAS			m_e		
CLZ	70.72	P	23:04:58.082	0.3	32.7	5.75	TAS	1190.6	0.78	a_e	MBB	7.2
CLZ	70.72	pP	23:06:57.827				T__			m_e		
CLZ	70.72	sPP	23:10:30.172		34.9	7.72	TAS			m_e		
FLT1	70.02	S	23:13:20.446	0.9	31.9	10.56	TAS			m_e		
FLT1	70.02	P	23:04:53.182	-0.6	32.7	5.75	TAS	1538.9	0.77	a_e	MBB	7.3
FLT1	70.02	pP	23:06:53.604				T__			m_e		
FLT1	70.02	sPP	23:10:23.001	-0.0	34.9	7.72	TAS			m_e		
FUR	73.54	S	23:13:58.579		31.9	10.56	TAS			m_e		
FUR	73.54	P	23:05:14.132	0.3	32.7	5.75	TAS	1538.9	0.89	a_e	MBB	7.2
GEC2	72.10	S	23:13:43.189		31.9	10.56	TAS			m_e		
GEC2	72.10	P	23:05:05.532	0.1	32.7	5.75	TAS	307.4	0.78	a_e	MBB	6.9
GEC2	72.10	pP	23:07:05.033				T__			m_e		
GEC2	72.10	sPP	23:10:37.343		34.9	7.72	TAS			m_e		
GOR1	69.44	P	23:04:50.782	0.4	32.7	5.75	TAS	1001.2	1.03	a_e	MBB	7.3
GRA1	72.26	S	23:13:44.557		31.9	10.56	TAS			m_e		
GRA1	72.26	P	23:05:07.032	0.5	32.7	5.75	TAS	1552.2	0.81	a_e	MBB	7.3
GRA1	72.26	sPP	23:10:35.713		34.9	7.72	TAS			m_e		
GTTG	71.11	S	23:13:33.074		31.9	10.56	TAS			m_e		
GTTG	71.11	P	23:05:00.182	0.2	32.7	5.75	TAS	850.6	0.88	a_e	MBB	7.1
GTTG	71.11	pP	23:06:59.065				T__			m_e		
GTTG	71.11	sPP	23:10:27.565		34.9	7.72	TAS			m_e		
HLG	69.50	S	23:13:15.829	-1.6	31.9	10.56	TAS			m_e		
HLG	69.50	P	23:04:50.832	0.2	32.7	5.75	TAS	1775.9	0.71	a_e	MBB	7.4
HLG	69.50	sPP	23:10:22.838	-3.1	34.9	7.72	TAS			m_e		
IBBN	71.16	S	23:13:33.100		31.9	10.56	TAS			m_e		
IBBN	71.16	P	23:05:00.182	-0.1	32.7	5.75	TAS	1141.2	0.82	a_e	MBB	7.2
IBBN	71.16	sPP	23:10:31.150		34.9	7.72	TAS			m_e		
KAST	71.90	S	23:13:39.427		31.9	10.56	TAS			m_e		
KAST	71.90	P	23:05:04.682	0.1	32.7	5.75	TAS	596.8	0.93	a_e	MBB	7.0
KAST	71.90	sPP	23:10:34.410		34.9	7.72	TAS			m_e		
MOX	71.32	S	23:13:35.297		31.9	10.56	TAS			m_e		
MOX	71.32	P	23:05:01.182	0.0	32.7	5.75	TAS	621.5	1.05	a_e	MBB	7.0
MOX	71.32	pP	23:07:00.421				T__			m_e		
MOX	71.32	sPP	23:10:31.150		34.9	7.72	TAS			m_e		
NEUB	70.80	S	23:13:27.457		31.9	10.56	TAS			m_e		
NEUB	70.80	P	23:04:57.932	-0.3	32.7	5.75	TAS	1600.9	0.79	a_e	MBB	7.3
PLN	71.27	S	23:13:33.758		31.9	10.56	TAS			m_e		
PLN	71.27	P	23:05:00.882	0.1	32.7	5.75	TAS	124.5	0.83	a_e	MBB	6.5
PLN	71.27	sPP	23:10:31.313		34.9	7.72	TAS			m_e		
RETH	70.28	P	23:04:55.332	0.1	32.7	5.75	TAS	938.6	0.95	a_e	MBB	7.2
RETH	70.28	pP	23:06:54.568				T__			m_e		
RGN	67.49	S	23:12:54.282	0.4	31.9	10.56	TAS			m_e		
RGN	67.49	P	23:04:38.882	-0.2	32.7	5.75	TAS	1787.1	0.99	a_e	MBB	7.4
RGN	67.49	sPP	23:09:58.764	-3.9	34.9	7.72	TAS			m_e		
RUE	69.05	S	23:13:09.844	-0.5	31.9	10.56	TAS			m_e		

RUE	69.05	P	23:04:47.882	-0.2	32.7	5.75	TAS	1263.0	1.00	a_e	MBB	7.3
RUE	69.05	pP	23:06:48.288				T__			m_e		
RUE	69.05	sPP	23:10:15.830	1.7	34.9	7.72	TAS			m_e		
STU	73.74	S	23:13:59.434		31.9	10.56	TAS			m_e		
STU	73.74	P	23:05:14.982	-0.1	32.7	5.75	TAS	2215.8	0.85	a_e	MBB	7.4
STU	73.74	pP	23:07:14.615				T__			m_e		
STU	73.74	sPP	23:10:54.944		34.9	7.72	TAS			m_e		
TANN	71.22	S	23:13:34.468		31.9	10.56	TAS			m_e		
TANN	71.22	P	23:05:00.582	0.0	32.7	5.75	TAS	206.7	0.86	a_e	MBB	6.8
TANN	71.22	pP	23:06:59.261				T__			m_e		
TANN	71.22	sPP	23:10:32.943		34.9	7.72	TAS			m_e		
TNS	72.74	S	23:13:48.319		31.9	10.56	TAS			m_e		
TNS	72.74	P	23:05:09.482	0.1	32.7	5.75	TAS	535.9	0.94	a_e	MBB	6.9
TNS	72.74	pP	23:07:08.556				T__			m_e		
TNS	72.74	sPP	23:10:40.929		34.9	7.72	TAS			m_e		
UBR	74.36	S	23:14:07.610		31.9	10.56	TAS			m_e		
UBR	74.36	P	23:05:18.165	-0.5	32.7	5.75	TAS	247.6	0.85	m_e	MBB	6.8
UBR	74.36	pP	23:07:18.468				T__			m_e		
WET	72.14	S	23:13:44.044		31.9	10.56	TAS			m_e		
WET	72.14	P	23:05:06.382	0.6	32.7	5.75	TAS	850.5	0.93	a_e	MBB	7.1
WET	72.14	sPP	23:10:36.528		34.9	7.72	TAS			m_e		
WLF	73.96	S	23:14:01.315		31.9	10.56	TAS			m_e		
WLF	73.96	P	23:05:16.232	-0.1	32.7	5.75	TAS	370.4	0.96	a_e	MBB	6.7
WLF	73.96	sPP	23:10:53.478		34.9	7.72	TAS			m_e		