

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

(produced by SZGRF/BGR - HANNOVER)

December 2010 UPDATED 21.SEPTEMBER.2011

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

(Format description at the end of the bulletin)

Event 1201002 Northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/01	00:50:27.03		1.68	2.5000	97.5000				157.3	2.3		21	160	84.00	88.99	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1201008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	88.36		P	01:03:00.296	0.1	91.3		4.89		TAS		57.4	1.37	a_e mb	5.7
AHRW	88.36		pP	01:03:40.113	-24.7					T__				m_e	
BFO	87.60		P	01:02:56.261	-0.1	91.3		4.89		TAS		23.4	1.22	m_e mb	5.4
BRG	84.00		P	01:02:38.796	-0.0	91.3		4.89		TAS		46.2	1.38	a_e mb	5.5
BSEG	86.33		P	01:02:50.096	-0.1	91.3		4.89		TAS		70.2	1.24	a_e mb	5.7
BSEG	86.33		pP	01:03:29.026	-24.7					T__				m_e	
BSEG	86.33		sP	01:03:46.471	-24.7					T__				m_e	
BUG	88.21		P	01:02:59.096	-0.3	91.3		4.89		TAS		54.1	1.12	a_e mb	5.8
CLL	84.61		P	01:02:41.396	-0.5	91.3		4.89		TAS		28.8	1.24	a_e mb	5.4
CLL	84.61		pP	01:03:20.570	-24.7					T__				m_e	
CLZ	86.27		P	01:02:49.946	0.0	91.3		4.89		TAS		108.6	1.46	a_e mb	5.8
FUR	85.63		P	01:02:46.446	-0.3	91.3		4.89		TAS		34.8	1.24	a_e mb	5.3
GEC2	84.04		P	01:02:39.246	0.2	91.3		4.89		TAS		55.4	1.38	m_e mb	5.6
GEC2	84.04		sP	01:03:35.324	-24.7					T__				m_e	
GRA1	85.70		P	01:02:47.496	0.4	91.3		4.89		TAS		48.7	1.31	a_e mb	5.5
GRA1	85.70		pP	01:03:26.664	-24.7					T__				m_e	
GRA1	85.70		sP	01:03:43.633	-24.7					T__				m_e	
GTTG	86.52		P	01:02:51.046	-0.1	91.3		4.89		TAS		62.5	1.17	a_e mb	5.6
IBBN	87.88		P	01:02:57.696	-0.1	91.3		4.89		TAS		69.6	1.13	a_e mb	5.9
IBBN	87.88		sP	01:03:54.637	-24.7					T__				m_e	
MOX	85.47		P	01:02:46.146	0.1	91.3		4.89		TAS		48.9	1.57	a_e mb	5.5

MOX	85.47	pP	01:03:25.192	-24.7						T__						m_e	
MOX	85.47	sP	01:03:42.518	-24.7						T__						m_e	
NRDL	86.44	P	01:02:50.996	0.2	91.3		4.89			TAS	104.3	1.27	a_e	mb		5.8	
NRDL	86.44	sP	01:03:47.499	-24.7						T__						m_e	
RJOB	84.59	P	01:02:41.246	-0.5	91.3		4.89			TAS	14.7	1.14	a_e	mb		5.1	
ROTZ	85.06	P	01:02:44.546	0.5	91.3		4.89			TAS	12.9	0.92	a_e	mb		5.1	
STU	87.02	P	01:02:53.646	0.1	91.3		4.89			TAS	54.7	1.71	a_e	mb		5.4	
TANN	84.92	P	01:02:43.396	0.1	91.3		4.89			TAS	38.2	1.72	a_e	mb		5.3	
TANN	84.92	sP	01:03:39.497	-24.7						T__						m_e	
TNS	87.49	P	01:02:55.996	0.1	91.3		4.89			TAS	52.5	1.20	a_e	mb		5.5	
WET	84.60	P	01:02:41.846	0.1	91.3		4.89			TAS	49.6	1.60	a_e	mb		5.5	
WET	84.60	sP	01:03:37.682	-24.7						T__						m_e	
WLF	88.99	P	01:03:03.346	0.1	91.3		4.89			TAS	57.7	1.28	a_e	mb		5.7	

Event 1201006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/01	16:01:27.30		0.51	-15.9000	-178.9400				15.2				172	145.30	145.30	m i ke	NEIC
	1201067																

Magnitude	Err	Nsta	Author	OrigID
Ms	6.0		BGR	1201012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	145.30		PKP	16:21:03.451		17.3		2.89		TAS				m_e	
GRA1	145.30		L	17:31:42.907						T__	2701.4	19.70	a_e	Ms	6.0

Event 1201007 Northern and central Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/01	19:55:44.99		0.51	31.1070	52.7760				33.0				172	36.12	36.12	m i ke	BGR
	1201013																

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1201013
Ms	3.8		BGR	1201013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	36.12		P	20:02:43.711		113.0		9.08		TAS		22.0	1.06	m_e	mb	4.9
GRA1	36.12		L	20:20:35.922						T__	153.0	19.40	a_e	Ms	3.8	

Event 1201008 Hokkaido, Japan, region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/01 21:44:06.67 0.51 43.6170 141.5240 10.0 172 77.43 77.43 m i ke BGR  
 1201014

Magnitude Err Nsta Author OrigID  
 mb 5.0 BGR 1201014

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 77.43 P 21:56:00.511 37.2 5.02 TAS 19.2 1.39 m\_e mb 5.0

Event 1202001 Fiji Islands region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/02 02:28:18.35 -21.6200 -179.0600 33.0 12 m i ke BGR  
 1202007

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 BRG PKPbc 02:48:02.565 -0.1 18.1 2.57 TAS m\_e  
 BRG PKPab 02:48:06.904 18.1 2.57 TAS m\_e  
 BSEG PKPbc 02:47:56.522 -0.3 18.1 2.57 TAS m\_e  
 BUG PKPab 02:48:08.960 18.1 2.57 TAS m\_e  
 CLL PKPbc 02:48:02.044 0.0 18.1 2.57 TAS m\_e  
 CLZ PKPbc 02:48:02.148 0.1 18.1 2.57 TAS m\_e  
 GEC2 PKPbc 02:48:07.161 18.1 2.57 TAS m\_e  
 GTTG PKPbc 02:48:03.034 0.1 18.1 2.57 TAS m\_e  
 TANN PKPbc 02:48:04.649 18.1 2.57 TAS m\_e  
 TANN PKPab 02:48:10.066 18.1 2.57 TAS m\_e  
 TNS PKPbc 02:48:06.899 18.1 2.57 TAS m\_e  
 WET PKPab 02:48:14.655 18.1 2.57 TAS m\_e  
 WLF PKPbc 02:48:09.178 18.1 2.57 TAS m\_e

Event 1202002 New Ireland, Papua New Guinea, region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/02 02:51:35.90 -5.7500 153.6500 19.2 m i ke NEIC  
 1202064

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1			PKP	03:10:37.883		48.6		1.30		TAS				m_e	

Event 1202003 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/02	03:12:10.20			-6.0500	149.8500				34.8				13			m i ke	NEIC
OrigID 1202064																	

Magnitude	Err	Nsta	Author	OrigID
Ms 6.9			BGR	1202009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG			PKPdf	03:31:01.548	0.1	52.8		1.95		TAS				m_e	
CLL			PKPdf	03:31:02.142	0.0	52.8		1.95		TAS				m_e	
CLZ			PKPdf	03:31:04.265	0.1	52.8		1.95		TAS				m_e	
CLZ			PP	03:32:42.233						T__				m_e	
CLZ			PPP	03:35:25.497						T__				m_e	
FUR			PKPdf	03:31:07.660		52.8		1.95		TAS				m_e	
GEC2			PKPdf	03:31:04.010	0.1	52.8		1.95		TAS				m_e	
GRA1			PP	03:32:50.131						T__				m_e	
GRA1			PPP	03:35:34.560						T__				m_e	
GRA1			L	04:25:39.551						T__		27223.9	21.90	a_e Ms	6.9
GTTG			PKPdf	03:31:05.199	-0.6	52.8		1.95		TAS				m_e	
IBBN			PKPdf	03:31:05.283	0.2	52.8		1.95		TAS				m_e	
MOX			PKPdf	03:31:04.350	0.4	52.8		1.95		TAS				m_e	
RJOB			PKPdf	03:31:05.708	0.1	52.8		1.95		TAS				m_e	
STU			PKPdf	03:31:09.019		52.8		1.95		TAS				m_e	
TANN			PKPdf	03:31:03.671	-0.1	52.8		1.95		TAS				m_e	
TNS			PKPdf	03:31:08.085		52.8		1.95		TAS				m_e	
WET			PKPdf	03:31:04.774	-0.7	52.8		1.95		TAS				m_e	

Event 1203001 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/03	06:31:01.58			-16.8020	-175.9850				253.8				14	142.62	148.36	m i ke	BGR
OrigID 1203007																	

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.25		PKPbc	06:50:13.245	0.7	12.6		2.91		TAS				m_e	

BFO	148.36	PKPbc	06:50:17.492		12.6		2.91		TAS		m_e
BFO	148.36	PKPab	06:50:23.566						T__		m_e
BRG	145.09	PKPbc	06:50:09.167	0.1	12.6		2.91		TAS		m_e
BSEG	142.62	PKPbc	06:50:00.603	-1.1	12.6		2.91		TAS		m_e
BUG	145.35	pPKPbc	06:51:12.909						T__		m_e
CLL	144.84	PKPbc	06:50:08.275	0.2	12.6		2.91		TAS		m_e
CLZ	144.68	PKPbc	06:50:08.108	0.5	12.6		2.91		TAS		m_e
FUR	148.16	PKPab	06:50:23.156						T__		m_e
GRA1	146.68	PKPab	06:50:17.136						T__		m_e
GTTG	145.01	PKPbc	06:50:08.318	-0.3	12.6		2.91		TAS		m_e
IBBN	144.45	PKPbc	06:50:07.059	-0.2	12.6		2.91		TAS		m_e
MOX	145.69	PKPbc	06:50:10.695	0.4	12.6		2.91		TAS		m_e
MOX	145.69	pPKPbc	06:51:14.284						T__		m_e
NRDL	144.06	PKPbc	06:50:05.835	-0.1	12.6		2.91		TAS		m_e
RJOB	148.31	PKPbc	06:50:17.485		12.6		2.91		TAS		m_e
ROTZ	146.46	PKPbc	06:50:13.267	-0.9	12.6		2.91		TAS		m_e
TANN	145.79	PKPbc	06:50:11.268	0.8	12.6		2.91		TAS		m_e
TNS	146.47	PKPbc	06:50:13.671	0.5	12.6		2.91		TAS		m_e
WET	146.94	pPKPbc	06:51:17.930						T__		m_e

Event 1203005 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/03	19:39:40.10		0.51	49.5600	153.8100				159.9				146	76.04	76.04	m i ke	NEIC
	1203068																

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1203011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	76.04		P	19:51:10.688		24.1		4.96		TAS		8.9	1.18	m_e mb	4.8

Event 1204002 Dodecanese Islands, Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/04	03:48:50.33		0.97	35.8380	27.5340				33.0				20	138	16.16	21.63	m i ke	BGR
	1204008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1204008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	20.84		P	03:53:29.400	-0.1	133.3		11.00		TAS		146.8	0.74	m_e mb	5.4

BFO	18.88	P	03:53:08.864	2.0	133.3	11.00	TAS	38.6	0.74	m_e	mb	4.7
BRG	17.94	P	03:52:58.269	1.5	133.3	11.00	TAS	39.3	1.08	m_e	mb	4.5
BUG	21.30	P	03:53:33.863	-1.1	133.3	11.00	TAS	37.6	0.97	m_e	mb	4.7
CLL	18.65	P	03:53:06.014	1.2	133.3	11.00	TAS	46.8	0.82	m_e	mb	4.8
CLZ	20.15	P	03:53:21.801	-0.1	133.3	11.00	TAS	38.8	0.91	m_e	mb	4.6
FUR	17.21	P	03:52:48.842	-0.7	133.3	11.00	TAS	106.1	0.68	m_e	mb	5.1
GEC2	16.50	P	03:52:40.832	-1.3	133.3	11.00	TAS	92.2	1.26	m_e	mb	4.8
GRA1	18.25	P	03:53:01.271	-0.1	133.3	11.00	TAS	85.0	0.89	m_e	mb	4.9
GTTG	20.11	P	03:53:21.735	-0.0	133.3	11.00	TAS	87.7	0.83	m_e	mb	5.0
IBBN	21.63	P	03:53:37.356	-1.2	133.3	11.00	TAS	194.1	2.22	m_e	mb	5.1
MOX	18.74	P	03:53:06.896	0.3	133.3	11.00	TAS	107.7	1.70	m_e	mb	4.8
NRDL	20.73	P	03:53:27.766	-0.3	133.3	11.00	TAS	29.7	1.14	m_e	mb	4.5
RJOB	16.16	P	03:52:36.737	-1.5	133.3	11.00	TAS	33.4	0.84	m_e	mb	4.5
ROTZ	17.85	P	03:52:56.722	-0.2	133.3	11.00	TAS	67.7	1.46	m_e	mb	4.6
STU	18.67	P	03:53:05.619	0.3	133.3	11.00	TAS	64.7	0.81	m_e	mb	4.9
TANN	18.20	P	03:53:01.106	0.5	133.3	11.00	TAS	29.3	1.33	m_e	mb	4.2
TNS	19.95	P	03:53:19.870	-0.1	133.3	11.00	TAS	148.2	0.91	m_e	mb	5.2
WET	17.09	P	03:52:48.822	0.2	133.3	11.00	TAS	49.8	1.02	m_e	mb	4.6
WLF	20.82	P	03:53:29.142	0.8	133.3	11.00	TAS	72.9	0.85	m_e	mb	5.0

Event 1204005 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/04	20:02:51.66		0.89	53.2750	-169.4300				41.3	1.4		16	308	74.60	79.35	m i ke	BGR
OrigID 1204011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1204011
Ms	4.4		BGR	1204011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	76.52		pP	20:14:47.263	0.2	0.4		5.64		TAS		22.5	1.31	m_e	
BFO	78.75		P	20:14:47.695		359.6		5.70		TAS		40.7	1.80	m_e	mb 5.2
BFO	78.75		pP	20:14:59.709		0.4		5.64		TAS		27.5	1.35	m_e	
BRG	76.19		P	20:14:33.332		359.6		5.70		TAS		30.3	1.46	m_e	mb 5.2
BRG	76.19		pP	20:14:45.203	-0.1	0.4		5.64		TAS		30.3	1.46	m_e	
BUG	75.62		P	20:14:29.733	-0.1	359.6		5.70		TAS		64.9	1.80	m_e	mb 5.5
CLL	75.77		pP	20:14:42.611	0.0	0.4		5.64		TAS		13.3	1.11	m_e	
CLZ	75.26		pP	20:14:40.483	-0.2	0.4		5.64		TAS		21.2	1.12	m_e	
FUR	78.94		pP	20:15:00.582		0.4		5.64		TAS		265.2	2.56	m_e	
GEC2	78.22		P	20:14:44.871		359.6		5.70		TAS		15.6	1.46	m_e	mb 4.9
GEC2	78.22		pP	20:14:56.885		0.4		5.64		TAS		17.8	1.22	m_e	
GRA1	77.41		P	20:14:41.020		359.6		5.70		TAS		47.5	1.38	m_e	mb 5.4
GRA1	77.41		pP	20:14:52.444	-0.3	0.4		5.64		TAS		47.5	1.38	m_e	
GRA1	77.41		L	21:00:27.454						T__		185.6	18.00	a_e	Ms 4.4
MOX	76.45		pP	20:14:46.970	0.4	0.4		5.64		TAS		13.6	1.07	m_e	

MOX	76.45	L	20:50:57.608							T__	146.5	20.50	a_e	Ms	4.3
NRDL	74.60	pP	20:14:36.271	0.3	0.4		5.64			TAS	63.4	1.88	m_e		
RJOB	79.35	P	20:14:51.375		359.6		5.70			TAS	10.3	1.23	m_e	mb	4.7
RJOB	79.35	pP	20:15:03.246		0.4		5.64			TAS	10.3	1.00	m_e		
ROTZ	77.32	pP	20:14:52.176	0.0	0.4		5.64			TAS	30.9	1.71	m_e		
STU	78.32	pP	20:14:57.451		0.4		5.64			TAS	30.5	1.54	m_e		
TANN	76.67	pP	20:14:48.160	0.2	0.4		5.64			TAS	48.5	2.14	m_e		
TNS	76.86	pP	20:14:49.045	0.0	0.4		5.64			TAS	16.3	1.23	m_e		
WET	77.94	pP	20:14:55.455	0.0	0.4		5.64			TAS	12.0	1.30	m_e		

Event 1204006 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/04	20:13:02.93		0.89	52.0790	-168.9370				39.1				308	78.61	78.61	m i ke	BGR
1204012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1204012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	78.61		P	20:24:58.844		1.1		4.93		TAS		14.8	1.27	m_e	mb	4.9
GRA1	78.61		pP	20:25:10.083						T__				m_e		

Event 1205003 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/05	08:50:27.55		2.18	48.4360	155.0350				33.0				278	76.42	77.40	m i ke	BGR
1205009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.4		BGR	1205009
Ms	4.9		BGR	1205009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	77.40		P	09:02:17.750		26.6		5.02		TAS		38.5	1.32	m_e	mb	5.4
GRA1	77.40		L	09:40:10.310						T__		623.0	20.70	a_e	Ms	4.9
MOX	76.42		L	09:40:02.011						T__		571.1	21.20	a_e	Ms	4.9

Event 1205004 Southeast of Easter Island

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2010/12/05 21:44:36.30 2.18 -36.3100 -101.0900 12.6 278 130.35 130.78 m i ke NEIC  
 1205066

Magnitude Err Nsta Author OrigID  
 Ms 5.4 BGR 1205010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	130.35		PKPdf	22:03:57.271		258.7		2.02		TAS				m_e	
GRA1	130.35		L	22:52:18.975						T__		754.6	21.90	a_e Ms	5.3
MOX	130.78		L	22:52:59.331						T__		852.2	22.00	a_e Ms	5.4

Event 1205005 Eastern Mediterranean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/05	23:20:18.50		2.18	35.4000	28.4800				51.2				12 278	17.30	22.47	m i ke NEIC	

OrigID  
1205068

Magnitude Err Nsta Author OrigID  
 mb 4.7 BGR 1205011  
 Ms 4.0 BGR 1205011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	19.73		P	23:24:44.973	-1.2	132.1		11.31		TAS		116.6	2.24	m_e mb	4.7
BRG	18.70		P	23:24:32.599	0.3	132.1		11.31		TAS		297.4	2.87	m_e mb	5.0
BSEG	22.47		P	23:25:11.483		132.1		11.31		TAS		37.2	1.22	m_e mb	4.7
CLL	19.41		P	23:24:39.614	0.5	132.1		11.31		TAS		47.3	1.17	m_e mb	4.6
FUR	18.04		P	23:24:25.130	0.6	132.1		11.31		TAS		79.1	1.46	m_e mb	4.6
GEC2	17.30		P	23:24:16.155	-1.2	132.1		11.31		TAS		94.9	1.81	m_e mb	4.6
GRA1	19.06		P	23:24:37.584	0.2	132.1		11.31		TAS		92.4	1.56	m_e mb	4.8
GRA1	19.06		L	23:32:52.276						T__		568.3	20.90	a_e Ms	3.9
MOX	19.53		P	23:24:42.936	0.3	132.1		11.31		TAS		159.9	1.92	m_e mb	4.9
MOX	19.53		L	23:34:34.382						T__		846.7	18.90	a_e Ms	4.1
ROTZ	18.64		P	23:24:32.978	1.5	132.1		11.31		TAS		56.6	1.57	m_e mb	4.6
STU	19.51		P	23:24:43.114	0.8	132.1		11.31		TAS		85.5	2.06	m_e mb	4.6
TANN	18.99		P	23:24:36.093	0.2	132.1		11.31		TAS		28.9	1.49	m_e mb	4.3
WET	17.89		P	23:24:22.898	-0.9	132.1		11.31		TAS		87.2	1.83	m_e mb	4.6

Event 1206002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/06	02:50:46.30		2.00	-17.8000	-178.3300				581.8				16 275	143.32	149.07	m i ke NEIC	

OrigID  
1206065



Magnitude	Err	Nsta	Author	OrigID												
Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	149.07		PKPbc	03:09:29.377		17.0		2.75		TAS				m_e		
BRG	145.58		PKPbc	03:09:20.418	0.2	17.0		2.75		TAS				m_e		
BSEG	143.32		PKPbc	03:09:13.008	-0.9	17.0		2.75		TAS				m_e		
CLL	145.38		PKPbc	03:09:19.683	0.3	17.0		2.75		TAS				m_e		
CLZ	145.34		PKPbc	03:09:19.797	0.0	17.0		2.75		TAS				m_e		
FUR	148.72		PKPbc	03:09:28.639		17.0		2.75		TAS				m_e		
GEC2	147.53		PKPbc	03:09:25.764	-0.4	17.0		2.75		TAS				m_e		
GRA1	147.27		PKPbc	03:09:25.306	-0.2	17.0		2.75		TAS				m_e		
GTTG	145.69		PKPbc	03:09:20.654	0.2	17.0		2.75		TAS				m_e		
MOX	146.28		PKPbc	03:09:22.281	0.4	17.0		2.75		TAS				m_e		
NRDL	144.75		PKPbc	03:09:17.770	-0.1	17.0		2.75		TAS				m_e		
RJOB	148.78		PKPbc	03:09:28.557		17.0		2.75		TAS				m_e		
ROTZ	147.00		PKPbc	03:09:24.613	0.5	17.0		2.75		TAS				m_e		
STU	148.51		PKPbc	03:09:28.201		17.0		2.75		TAS				m_e		
TANN	146.33		PKPbc	03:09:22.678	0.4	17.0		2.75		TAS				m_e		
TNS	147.20		PKPbc	03:09:24.976	0.0	17.0		2.75		TAS				m_e		

Event	1206004	Hokkaido, Japan, region															
Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
OrigID																	
2010/12/06	07:30:39.13		0.79	41.8930	143.7840				33.0			21	294	76.54	81.93	m i ke	BGR
1206010																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	1206010
Ms	6.0		BGR	1206010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	81.93		P	07:42:53.524		35.4		4.57		TAS		106.5	1.57	m_e	mb	5.7
BRG	77.78		P	07:42:31.069	-0.2	35.4		4.57		TAS		68.2	1.52	m_e	mb	5.6
BSEG	76.54		P	07:42:24.680	-0.1	35.4		4.57		TAS		95.0	1.19	m_e	mb	5.8
BUG	79.64		P	07:42:41.348		35.4		4.57		TAS		69.7	1.07	m_e	mb	5.5
CLL	77.78		P	07:42:30.871	0.3	35.4		4.57		TAS		120.3	1.55	m_e	mb	5.8
CLZ	78.26		P	07:42:34.294	0.4	35.4		4.57		TAS		83.2	1.00	m_e	mb	5.8
FUR	81.00		P	07:42:49.017		35.4		4.57		TAS		102.9	0.98	m_e	mb	5.8
GEC2	79.52		P	07:42:40.658		35.4		4.57		TAS		62.8	1.48	m_e	mb	5.3
GRA1	79.75		P	07:42:42.491		35.4		4.57		TAS		117.7	1.17	m_e	mb	5.7
GRA1	79.75		PP	07:45:44.674		32.2		8.14		TAS				m_e		
GRA1	79.75		L	08:21:36.157						T_		6446.8	19.50	a_e	Ms	6.0
GTTG	78.65		P	07:42:35.869	0.1	35.4		4.57		TAS		128.0	1.64	m_e	mb	5.7
IBBN	78.75		P	07:42:36.596	-0.1	35.4		4.57		TAS		85.5	1.06	m_e	mb	5.7
MOX	78.82		P	07:42:36.929	0.1	35.4		4.57		TAS		83.8	1.55	m_e	mb	5.5

MOX	78.82	L	08:21:16.897							T__	7140.0	18.40	a_e	Ms	6.0
NRDL	77.81	P	07:42:31.524	-0.2	35.4		4.57			TAS	100.7	1.58	m_e	mb	5.7
RJOB	80.78	P	07:42:47.959		35.4		4.57			TAS	99.3	1.45	m_e	mb	5.6
ROTZ	79.33	P	07:42:40.191		35.4		4.57			TAS	109.2	1.58	m_e	mb	5.6
RUE	76.54	P	07:42:24.557	-0.5	35.4		4.57			TAS	195.2	1.72	m_e	mb	6.0
STU	81.25	P	07:42:50.015		35.4		4.57			TAS	66.8	1.01	m_e	mb	5.6
TANN	78.70	P	07:42:36.140	-0.0	35.4		4.57			TAS	68.5	1.71	m_e	mb	5.4
TNS	80.29	P	07:42:44.808		35.4		4.57			TAS	71.6	1.49	m_e	mb	5.4
WET	79.59	P	07:42:41.336		35.4		4.57			TAS	95.2	1.46	m_e	mb	5.5

Event 1207003 Northwestern Balkan Peninsula

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/07	12:35:05.40	0.83	1.78	43.5990	19.4030	24.5	17.8	79	10.0				9 303	2.67	6.58	m i ke	BGR
1207009																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.3		BGR	1207009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ARSA	4.56		Sn	12:37:06.187	0.4					T__				m_e	
ARSA	4.56		Pn	12:36:13.269	-0.8					T__				m_e	ML 3.9
GEC2	6.57		Sn	12:37:52.734	-0.8					T__				m_e	
GEC2	6.57		Pn	12:36:42.143	0.9					T__				m_e	ML 4.1
KBA	5.51		Pn	12:36:24.777	-2.1					T__				m_e	ML 4.2
MOA	5.57		Sn	12:37:31.407	1.7					T__				m_e	
MOA	5.57		Pn	12:36:27.838	0.1					T__				m_e	ML 4.2
OBKA	4.50		Pn	12:36:11.652	-1.7					T__				m_e	ML 4.4
PKSM	2.67		Sg	12:36:27.562	-2.6					T__				m_e	
PKSM	2.67		Pn	12:35:49.607	1.0					T__				m_e	
PSZ	4.33		Pn	12:36:13.920	2.9					T__				m_e	
RJOB	6.21		Sn	12:37:48.430	3.5					T__				m_e	
RJOB	6.21		Pn	12:36:35.660	-0.7					T__				m_e	ML 4.3
WTTA	6.58		Pn	12:36:39.688	-1.7					T__				m_e	ML 4.8

Event 1207005 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/07	18:10:03.58		0.38	55.5220	169.0440				33.0				16 148	69.51	75.26	m i ke	BGR
1207011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1207011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	73.24		P	18:21:29.832	0.2	12.9		5.91		TAS		37.3	1.71	m_e mb	5.2
BFO	75.26		P	18:21:40.584		12.9		5.91		TAS		40.7	1.80	m_e mb	5.2
BRG	71.97		P	18:21:21.633	0.1	12.9		5.91		TAS		17.8	1.50	m_e mb	5.0
BSEG	69.51		P	18:21:07.511	0.1	12.9		5.91		TAS		14.5	1.13	m_e mb	5.0
BUG	72.34		P	18:21:23.747	0.5	12.9		5.91		TAS		10.8	0.89	m_e mb	5.0
CLL	71.69		P	18:21:19.805	-0.3	12.9		5.91		TAS		40.7	1.80	m_e mb	5.3
CLZ	71.55		P	18:21:19.763	-0.3	12.9		5.91		TAS		19.5	1.26	m_e mb	5.1
GEC2	73.97		P	18:21:33.836		12.9		5.91		TAS		17.1	1.33	m_e mb	4.9
GRA1	73.53		P	18:21:31.441	0.1	12.9		5.91		TAS		44.1	1.40	m_e mb	5.3
MOX	72.55		P	18:21:25.267	-0.2	12.9		5.91		TAS		14.1	1.35	m_e mb	4.9
RJOB	75.19		P	18:21:41.216		12.9		5.91		TAS		22.7	1.39	m_e mb	5.0
ROTZ	73.31		P	18:21:30.147	0.3	12.9		5.91		TAS		39.1	1.70	m_e mb	5.3
TANN	72.64		P	18:21:26.051	0.2	12.9		5.91		TAS		27.1	1.62	m_e mb	5.1
TNS	73.39		P	18:21:30.053	0.3	12.9		5.91		TAS		30.5	1.89	m_e mb	5.1
WET	73.81		P	18:21:33.168	-0.8	12.9		5.91		TAS		18.5	1.33	m_e mb	4.9
WLF	74.21		P	18:21:35.361	0.2	12.9		5.91		TAS		23.2	1.28	m_e mb	5.1

Event 1207006 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/07	18:17:51.70		0.38	55.5220	169.0440				33.0			20	148	69.51	75.26	m i ke	BGR
OrigID 1207012																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	1207012
Ms	5.3		BGR	1207012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	73.24		P	18:29:17.247	-0.1	12.9		5.91		TAS		102.6	1.89	m_e mb	5.6
BFO	75.26		P	18:29:28.601		12.9		5.91		TAS		56.5	1.62	m_e mb	5.3
BRG	71.97		P	18:29:09.563	-0.3	12.9		5.91		TAS		47.6	1.45	m_e mb	5.4
BSEG	69.51		P	18:28:55.239	-0.1	12.9		5.91		TAS		45.7	1.08	m_e mb	5.5
BUG	72.34		P	18:29:11.865	-0.1	12.9		5.91		TAS		187.3	2.31	m_e mb	5.8
CLL	71.69		P	18:29:07.734	-0.5	12.9		5.91		TAS		114.9	1.84	m_e mb	5.7
CLZ	71.55		P	18:29:07.680	0.3	12.9		5.91		TAS		105.8	1.66	m_e mb	5.7
FUR	75.02		P	18:29:27.798	0.1	12.9		5.91		TAS		158.3	1.91	m_e mb	5.7
GEC2	73.97		P	18:29:21.886	0.2	12.9		5.91		TAS		63.4	1.45	m_e mb	5.4
GRA1	73.53		P	18:29:19.557	0.4	12.9		5.91		TAS		138.6	1.66	m_e mb	5.7
GRA1	73.53		L	19:05:21.526						T__		1638.8	20.00	a_e Ms	5.3
GTTG	71.89		P	18:29:09.611	0.2	12.9		5.91		TAS		30.3	1.11	m_e mb	5.3
IBBN	71.43		P	18:29:06.778	0.2	12.9		5.91		TAS		155.4	1.76	m_e mb	5.8
MOX	72.55		P	18:29:13.149	-0.2	12.9		5.91		TAS		75.3	1.70	m_e mb	5.5
MOX	72.55		L	19:04:32.137						T__		1787.5	19.60	a_e Ms	5.3
NRDL	70.95		P	18:29:03.782	-0.1	12.9		5.91		TAS		104.1	2.03	m_e mb	5.6

RJOB	75.19	P	18:29:29.049	-0.7	12.9	5.91	TAS	37.8	0.93	m_e	mb	5.4
ROTZ	73.31	P	18:29:17.955	0.1	12.9	5.91	TAS	76.0	1.43	m_e	mb	5.6
TANN	72.64	P	18:29:13.938	0.1	12.9	5.91	TAS	123.6	1.91	m_e	mb	5.7
TNS	73.39	P	18:29:18.136	-0.1	12.9	5.91	TAS	74.4	1.91	m_e	mb	5.5
WET	73.81	P	18:29:21.135	0.3	12.9	5.91	TAS	93.1	1.64	m_e	mb	5.6
WLF	74.21	P	18:29:23.266	0.3	12.9	5.91	TAS	76.3	1.69	m_e	mb	5.5

Event 1208001 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/08	01:29:34.12		0.38	-23.4100	-179.7400				572.4			18	148	148.59	154.32	m i ke	BGR
1208007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	154.32		PKPab	01:48:46.347		19.6		4.18		TAS				m_e	
BRG	150.60		PKPbc	01:48:21.811	0.1	21.4		2.24		TAS				m_e	
BRG	150.60		pPKPbc	01:50:34.570	0.1	21.1		2.31		TAS				m_e	
BSEG	148.59		PKPbc	01:48:16.978	-0.3	21.4		2.24		TAS				m_e	
BSEG	148.59		PKPab	01:48:22.353	0.0	19.6		4.18		TAS				m_e	
BUG	151.50		PKPbc	01:48:23.695	-0.2	21.4		2.24		TAS				m_e	
CLL	150.46		PKPbc	01:48:21.402	0.0	21.4		2.24		TAS				m_e	
CLL	150.46		pPKPbc	01:50:33.966	0.1	21.1		2.31		TAS				m_e	
CLZ	150.57		PKPbc	01:48:22.049	0.4	21.4		2.24		TAS				m_e	
CLZ	150.57		pPKPbc	01:50:34.424	0.1	21.1		2.31		TAS				m_e	
GEC2	152.48		PKPbc	01:48:25.797	-0.3	21.4		2.24		TAS				m_e	
GEC2	152.48		pPKPbc	01:50:38.869		21.1		2.31		TAS				m_e	
GRA1	152.39		PKPbc	01:48:25.652	-0.0	21.4		2.24		TAS				m_e	
GRA1	152.39		PKPab	01:48:38.587		19.6		4.18		TAS				m_e	
GTTG	150.93		PKPbc	01:48:22.582	0.1	21.4		2.24		TAS				m_e	
GTTG	150.93		pPKPbc	01:50:35.273	-0.0	21.1		2.31		TAS				m_e	
IBBN	150.58		PKPbc	01:48:21.810	-0.1	21.4		2.24		TAS				m_e	
IBBN	150.58		PKPab	01:48:30.725	0.2	19.6		4.18		TAS				m_e	
MOX	151.41		PKPbc	01:48:23.573	0.1	21.4		2.24		TAS				m_e	
NRDL	150.00		PKPbc	01:48:20.410	0.0	21.4		2.24		TAS				m_e	
NRDL	150.00		pPKPbc	01:50:32.763	-0.1	21.1		2.31		TAS				m_e	
RJOB	153.74		PKPab	01:48:44.384		19.6		4.18		TAS				m_e	
ROTZ	152.07		PKPbc	01:48:25.176	0.2	21.4		2.24		TAS				m_e	
ROTZ	152.07		PKPab	01:48:37.353		19.6		4.18		TAS				m_e	
STU	153.72		PKPab	01:48:43.799		19.6		4.18		TAS				m_e	
TANN	151.41		PKPbc	01:48:23.680	0.1	21.4		2.24		TAS				m_e	
TANN	151.41		pPKPbc	01:50:36.284	-0.1	21.1		2.31		TAS				m_e	
TNS	152.48		PKPbc	01:48:26.100	0.1	21.4		2.24		TAS				m_e	
TNS	152.48		PKPab	01:48:38.510		19.6		4.18		TAS				m_e	
WET	152.45		PKPbc	01:48:25.691	-0.2	21.4		2.24		TAS				m_e	

WET	152.45	PKPab	01:48:38.717	19.6	4.18	TAS	m_e
WET	152.45	pPKPbc	01:50:38.630	21.1	2.31	TAS	m_e

Event 1208002 Reykjanes Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/08	02:47:11.15		0.38	56.9830	-31.8640				33.0				148	26.36	26.36	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	1208008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	26.36		P	02:52:43.713		299.9		8.83		TAS		9.6	1.29	m_e mb	4.3

Event 1208006 South Sandwich Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/08	05:24:33.70		0.45	-56.4400	-25.8700				17.0				220	110.16	111.14	m i ke	NEIC

Magnitude	Err	Nsta	Author	OrigID
Ms	6.0		BGR	1208012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	110.16		PP	05:43:32.398						T__				m_e	
GRA1	110.16		L	06:26:05.878						T__		4709.5	20.50	a_e Ms	6.1
MOX	111.14		L	06:26:56.634						T__		3533.6	19.90	a_e Ms	5.9

Event 1208004 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/08	05:34:27.94		0.19	-16.5480	-178.1450				33.0				7	322	144.14	147.86	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
Ms	6.0		BGR	1208010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.86		PKPbc	05:54:11.258		16.2		3.17		TAS				m_e	

CLL	144.20	PKPbc	05:53:59.345	0.4	16.2		3.17	TAS									m_e
CLZ	144.14	PKPbc	05:53:59.854	0.2	16.2		3.17	TAS									m_e
GRA1	146.08	PP	05:43:32.331					T__									m_e
GRA1	146.08	PKPbc	05:54:06.194		16.2		3.17	TAS									m_e
GRA1	146.08	L	06:26:05.900					T__			4709.5	20.50	a_e	Ms		6.1	
MOX	145.09	L	06:26:56.604					T__			3533.6	19.90	a_e	Ms		5.9	
RJOB	147.62	PKPbc	05:54:10.757		16.2		3.17	TAS									m_e
ROTZ	145.82	PKPbc	05:54:05.144		16.2		3.17	TAS									m_e
TANN	145.15	PKPbc	05:54:02.832		16.2		3.17	TAS									m_e

Event 1208007 Mindanao, Philippine Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/08	06:47:18.00		0.45	7.3800	126.6000				69.0				12 220	98.24	102.62	m i ke	NEIC	
	1208061																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	102.33		Pdiff	07:01:05.571		66.6		4.56		TAS					m_e
BFO	102.62		Pdiff	07:01:06.178		66.6		4.56		TAS					m_e
BRG	98.24		Pdiff	07:00:46.439	-0.2	66.6		4.56		TAS					m_e
CLL	98.62		Pdiff	07:00:48.099	-0.4	66.6		4.56		TAS					m_e
CLZ	99.90		Pdiff	07:00:54.741	0.2	66.6		4.56		TAS					m_e
GEC2	99.16		Pdiff	07:00:51.249	-0.4	66.6		4.56		TAS					m_e
GRA1	100.31		PP	07:05:28.032						T__					m_e
MOX	99.69		Pdiff	07:00:53.070	0.1	66.6		4.56		TAS					m_e
NRDL	99.76		Pdiff	07:00:53.913	-0.1	66.6		4.56		TAS					m_e
RJOB	100.14		Pdiff	07:00:55.071	0.1	66.6		4.56		TAS					m_e
ROTZ	99.70		Pdiff	07:00:53.967	0.3	66.6		4.56		TAS					m_e
ROTZ	99.70		PP	07:05:23.933						T__					m_e
TANN	99.29		Pdiff	07:00:51.055	-0.3	66.6		4.56		TAS					m_e
TANN	99.29		PP	07:05:18.193						T__					m_e
TNS	101.70		Pdiff	07:01:02.709		66.6		4.56		TAS					m_e

Event 1208008 Kyrgyzstan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/08	08:21:33.90		0.45	39.3900	72.8100				10.1				8 220	42.03	46.09	m i ke	NEIC	
	1208070																	

Magnitude Err Nsta Author OrigID

mb	5.0		BGR	1208014
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Ms 5.0 BGR 1208014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	46.09		P	08:30:00.170		80.3		8.32		TAS		34.0	1.61	m_e	mb 5.1
BRG	42.03		P	08:29:26.693	-0.0	80.3		8.32		TAS		86.3	2.08	m_e	mb 5.1
BSEG	43.83		P	08:29:41.465		80.3		8.32		TAS		32.4	1.38	m_e	mb 4.9
CLL	42.55		P	08:29:30.585	0.1	80.3		8.32		TAS		26.6	1.19	m_e	mb 4.9
GRA1	43.94		P	08:29:41.960		80.3		8.32		TAS		26.4	0.79	m_e	mb 5.0
GRA1	43.94		L	08:48:45.482						T__		1970.6	21.90	m_e	Ms 5.0
MOX	43.52		L	08:50:08.515						T__		1983.4	20.70	a_e	Ms 5.0
RJOB	43.30		P	08:29:37.201	0.0	80.3		8.32		TAS		16.1	1.09	m_e	mb 4.7
RJOB	43.30		PP	08:31:24.610						T__				m_e	
ROTZ	43.30		PP	08:31:24.876						T__				m_e	
TANN	43.03		PP	08:31:21.935						T__				m_e	
WET	42.98		P	08:29:34.496	0.6	80.3		8.32		TAS		38.5	1.65	m_e	mb 4.9

Event 1208009 South of Kermadec Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/08	09:18:49.40		0.40	-32.3800	-179.5000				52.5			7	181	157.34	163.00	m i ke	NEIC
	1208071																

Magnitude 5.1 Err Nsta Author BGR OrigID 1208015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	163.00		PKPab	09:39:34.176		26.5		4.52		TAS				m_e	
BRG	159.03		PKPdf	09:38:40.761	0.2					T__				m_e	
BRG	159.03		PKPab	09:39:16.718	-0.1	26.5		4.52		TAS				m_e	
BSEG	157.34		PKPdf	09:38:39.392	-0.1					T__				m_e	
BUG	160.31		PKPdf	09:38:42.935						T__				m_e	
CLL	158.97		PKPab	09:39:15.559	0.1	26.5		4.52		TAS				m_e	
GEC2	160.79		PKP	09:39:23.954						T__				m_e	
GRA1	160.94		PKPdf	09:38:43.026						T__				m_e	
GRA1	160.94		PKP	09:39:25.103						T__				m_e	
GRA1	160.94		L	10:55:22.019						T__		315.9	21.20	a_e	Ms 5.1
MOX	159.98		PKPab	09:39:20.291		26.5		4.52		TAS				m_e	
MOX	159.98		L	10:52:33.663						T__		237.2	21.70	a_e	Ms 5.0
NRDL	158.72		PKPdf	09:38:41.111	0.2					T__				m_e	
RJOB	162.04		PKPab	09:39:30.261		26.5		4.52		TAS				m_e	
ROTZ	160.56		PKPdf	09:38:42.698						T__				m_e	
ROTZ	160.56		PKP	09:39:23.825						T__				m_e	
TANN	159.92		PKPdf	09:38:42.158						T__				m_e	
TANN	159.92		PKPab	09:39:20.267		26.5		4.52		TAS				m_e	
TNS	161.22		PKPab	09:39:25.905		26.5		4.52		TAS				m_e	





1209056

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1209008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	74.59		P	15:58:43.282		88.0		4.72		TAS		10.3	0.89	m_e	mb 5.0

Event 1209003 Off east coast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/09	16:21:09.68		0.79	39.1530	144.7160				33.0			17	195	79.31	84.68	m i ke	BGR
OrigID 1209009																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1209009
Ms	4.4		BGR	1209009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.68		P	16:33:37.962		34.6		5.23		TAS		16.2	1.33	m_e	mb 5.1
BRG	80.52		P	16:33:16.621	-0.2	34.6		5.23		TAS		14.7	1.26	m_e	mb 4.9
BSEG	79.31		P	16:33:10.466	-0.0	34.6		5.23		TAS		19.0	1.04	m_e	mb 5.1
CLL	80.52		P	16:33:16.416	-0.5	34.6		5.23		TAS		16.5	0.95	m_e	mb 5.0
CLZ	81.03		P	16:33:19.862	0.4	34.6		5.23		TAS		19.2	1.09	m_e	mb 5.0
FUR	83.73		P	16:33:33.760		34.6		5.23		TAS		36.7	1.25	m_e	mb 5.5
GEC2	82.24		P	16:33:25.559	-0.3	34.6		5.23		TAS		4.4	0.81	m_e	mb 4.6
GRA1	82.49		P	16:33:27.682	0.2	34.6		5.23		TAS		34.0	1.17	m_e	mb 5.4
GRA1	82.49		L	17:15:27.306						T__		146.9	21.40	a_e	Ms 4.3
GTTG	81.41		P	16:33:21.652	0.1	34.6		5.23		TAS		79.5	2.11	m_e	mb 5.4
IBBN	81.52		P	16:33:22.077	0.0	34.6		5.23		TAS		21.2	0.99	m_e	mb 5.2
MOX	81.57		P	16:33:22.232	-0.1	34.6		5.23		TAS		26.1	1.63	m_e	mb 5.1
MOX	81.57		L	17:13:53.703						T__		157.1	18.80	a_e	Ms 4.4
NRDL	80.58		P	16:33:16.962	-0.2	34.6		5.23		TAS		34.2	1.94	m_e	mb 5.0
RJOB	83.49		P	16:33:32.563	-0.7	34.6		5.23		TAS		13.2	1.15	m_e	mb 5.1
ROTZ	82.07		P	16:33:25.395	0.4	34.6		5.23		TAS		21.8	1.48	m_e	mb 5.1
TANN	81.44		P	16:33:21.585	-0.1	34.6		5.23		TAS		7.7	1.10	m_e	mb 4.6
TNS	83.05		P	16:33:30.229	0.1	34.6		5.23		TAS		7.4	0.89	m_e	mb 4.9
WET	82.32		P	16:33:26.526	0.2	34.6		5.23		TAS		15.4	1.35	m_e	mb 5.0

Event 1209004 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/09	18:14:47.10		0.79	28.6100	52.0900				14.0			10	195	36.23	40.37	m i ke	NEIC
OrigID																	

1209058

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1209010
Ms	3.6		BGR	1209010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BRG	36.23		P	18:21:49.506	0.2	110.5		8.64		TAS		10.5	1.01	m_e	mb	4.6
BSEG	39.48		P	18:22:17.589		110.5		8.64		TAS		47.1	1.52	m_e	mb	4.9
BUG	40.37		P	18:22:25.114		110.5		8.64		TAS		40.5	1.37	m_e	mb	4.9
CLL	36.95		P	18:21:55.824	0.1	110.5		8.64		TAS		29.3	1.37	m_e	mb	4.8
CLZ	38.67		P	18:22:10.942		110.5		8.64		TAS		77.9	1.72	m_e	mb	5.1
FUR	36.93		P	18:21:55.740	0.3	110.5		8.64		TAS		32.1	0.76	m_e	mb	5.1
GRA1	37.44		P	18:21:59.946	0.3	110.5		8.64		TAS		34.6	1.26	m_e	mb	4.9
MOX	37.52		L	18:39:22.653						T__		90.3	19.10	a_e	Ms	3.6
NRDL	39.05		P	18:22:14.408		110.5		8.64		TAS		112.9	1.64	m_e	mb	5.2
ROTZ	36.86		P	18:21:55.342	0.6	110.5		8.64		TAS		33.0	1.48	m_e	mb	4.8
WET	36.23		P	18:21:49.401	-0.1	110.5		8.64		TAS		9.6	1.33	m_e	mb	4.5

Event 1209005 Pakistan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/09	23:17:35.35		0.79	30.5640	69.3390				33.0			12	195	45.43	49.65	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1209011
Ms	4.8		BGR	1209011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	49.02		P	23:26:18.073		91.4		7.81		TAS		9.7	0.89	m_e	mb	4.8
BRG	45.43		P	23:25:49.809	-0.1	91.4		7.81		TAS		17.5	0.97	m_e	mb	5.0
BSEG	47.89		P	23:26:08.605	-0.4	91.4		7.81		TAS		46.3	1.04	m_e	mb	5.5
BUG	49.65		P	23:26:22.463		91.4		7.81		TAS		32.1	0.71	m_e	mb	5.4
CLL	46.05		P	23:25:54.238	0.3	91.4		7.81		TAS		14.1	0.97	m_e	mb	5.0
CLZ	47.72		P	23:26:07.661	-0.2	91.4		7.81		TAS		34.6	1.06	m_e	mb	5.4
GEC2	45.46		P	23:25:50.049	-0.2	91.4		7.81		TAS		14.4	0.88	m_e	mb	4.9
GRA1	47.11		P	23:26:03.667	0.1	91.4		7.81		TAS		36.2	0.92	m_e	mb	5.5
GRA1	47.11		L	23:48:12.003						T__		663.6	21.20	a_e	Ms	4.6
IBBN	49.35		P	23:26:20.110		91.4		7.81		TAS		60.1	1.06	m_e	mb	5.6
MOX	46.89		P	23:26:01.535	0.4	91.4		7.81		TAS		15.8	0.98	m_e	mb	5.1
MOX	46.89		L	23:49:00.703						T__		1732.3	18.40	a_e	Ms	5.0
NRDL	47.92		P	23:26:09.181		91.4		7.81		TAS		28.1	1.01	m_e	mb	5.3
ROTZ	46.47		P	23:25:58.525	-0.1	91.4		7.81		TAS		21.5	0.94	m_e	mb	5.2

Event 1210002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/10	09:22:06.10		0.55	-21.5700	-177.3300				33.0			30	151	147.17	152.92	m i ke	BGR
	1210008																

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	150.88		PKPbc	09:41:55.333	0.3	15.8		2.44		TAS					a_e
AHRW	150.88		PKPab	09:42:02.317		14.5		4.23		TAS					m_e
ASSE	148.87		PKPbc	09:41:50.283	0.3	15.8		2.44		TAS					a_e
BFO	152.92		PKPbc	09:41:59.783		15.8		2.44		TAS					m_e
BFO	152.92		PKPab	09:42:10.759		14.5		4.23		TAS					m_e
BRG	149.45		PKPbc	09:41:51.733	0.4	15.8		2.44		TAS					a_e
BRG	149.45		PKPab	09:41:56.473	-0.1	14.5		4.23		TAS					m_e
BSEG	147.17		PKPbc	09:41:45.583	-0.1	15.8		2.44		TAS					a_e
BUG	149.97		PKPbc	09:41:52.883	0.1	15.8		2.44		TAS					a_e
CLL	149.24		PKPbc	09:41:51.033	0.1	15.8		2.44		TAS					m_e
CLZ	149.20		PKPbc	09:41:51.333	0.0	15.8		2.44		TAS					a_e
FBE	149.53		PKPbc	09:41:52.283	-0.2	15.8		2.44		TAS					a_e
FBE	149.53		PKPab	09:41:57.064	-0.1	14.5		4.23		TAS					m_e
FLT1	148.59		PKPbc	09:41:49.133	0.1	15.8		2.44		TAS					a_e
FUR	152.58		PKPbc	09:41:58.933		15.8		2.44		TAS					a_e
FUR	152.58		PKPab	09:42:09.578		14.5		4.23		TAS					m_e
GEC2	151.39		PKPbc	09:41:56.433	-0.4	15.8		2.44		TAS					a_e
GEC2	151.39		PKPab	09:42:04.835		14.5		4.23		TAS					m_e
GRA1	151.13		PKPbc	09:41:56.033	0.4	15.8		2.44		TAS					a_e
GTTG	149.54		PKPbc	09:41:51.933	0.0	15.8		2.44		TAS					a_e
GUNZ	150.27		PKPbc	09:41:53.758	0.3	15.8		2.44		TAS					m_e
GUNZ	150.27		PKPab	09:42:00.015		14.5		4.23		TAS					m_e
IBBN	149.07		PKPbc	09:41:50.933	-0.1	15.8		2.44		TAS					a_e
MANZ	150.68		PKPbc	09:41:54.933	0.4	15.8		2.44		TAS					a_e
MANZ	150.68		PKPab	09:42:01.414		14.5		4.23		TAS					m_e
MOX	150.14		PKPbc	09:41:53.483	0.2	15.8		2.44		TAS					a_e
MOX	150.14		PKPab	09:41:59.189	-0.0	14.5		4.23		TAS					m_e
NEUB	149.59		PKPbc	09:41:51.983	0.2	15.8		2.44		TAS					a_e
NEUB	149.59		PKPab	09:41:56.887	0.1	14.5		4.23		TAS					m_e
NRDL	148.60		PKPbc	09:41:49.483	0.1	15.8		2.44		TAS					a_e
PLN	150.19		PKPbc	09:41:53.583	0.2	15.8		2.44		TAS					a_e
PLN	150.19		PKPab	09:41:59.130	0.1	14.5		4.23		TAS					m_e
RJOB	152.65		PKPbc	09:41:58.894		15.8		2.44		TAS					m_e
RJOB	152.65		PKPab	09:42:10.286		14.5		4.23		TAS					m_e
ROTZ	150.87		PKPbc	09:41:55.483	0.1	15.8		2.44		TAS					m_e
RUE	147.98		PKPbc	09:41:47.733	-0.4	15.8		2.44		TAS					a_e
STU	152.36		PKPbc	09:41:58.683	-0.3	15.8		2.44		TAS					a_e
STU	152.36		PKPab	09:42:08.516		14.5		4.23		TAS					m_e

TANN	150.20	PKPbc	09:41:53.683	0.1	15.8	2.44	TAS	a_e
TANN	150.20	PKPab	09:41:59.328		14.5	4.23	TAS	m_e
WERD	150.20	PKPbc	09:41:53.633	0.1	15.8	2.44	TAS	a_e
WERD	150.20	PKPab	09:41:59.661	-0.1	14.5	4.23	TAS	m_e
WERN	150.34	PKPbc	09:41:53.876	0.0	15.8	2.44	TAS	m_e
WERN	150.34	PKPab	09:42:00.074		14.5	4.23	TAS	m_e
WET	151.31	PKPbc	09:41:56.355	-0.1	15.8	2.44	TAS	m_e
WET	151.31	PKPab	09:42:04.561		14.5	4.23	TAS	m_e
WLF	151.83	PKPbc	09:41:58.083	-0.7	15.8	2.44	TAS	m_e
WLF	151.83	PKPab	09:42:06.627		14.5	4.23	TAS	m_e

Event 1210001 Northern Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/10	17:48:20.03			23.3900	-45.5600				10.0			16		49.05	53.07	m i ke	BGR
	1210007																

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1210007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
ASSE	51.27		P	17:57:24.380	0.1	259.4		7.48		TAS		58.6	1.61	m_e mb	5.3
BFO	49.05		P	17:57:07.169	-0.2	259.4		7.48		TAS		60.2	1.48	m_e mb	5.4
BRG	53.07		P	17:57:37.187		259.4		7.48		TAS		23.2	1.23	m_e mb	5.0
BSEG	51.46		P	17:57:25.373	0.1	259.4		7.48		TAS		62.8	1.35	m_e mb	5.4
CLL	52.55		P	17:57:33.227		259.4		7.48		TAS		24.8	1.21	m_e mb	5.0
CLZ	51.03		P	17:57:22.153	-0.3	259.4		7.48		TAS		31.0	1.39	m_e mb	5.0
FBE	52.71		P	17:57:34.760		259.4		7.48		TAS		55.8	1.50	m_e mb	5.3
FLT1	51.65		P	17:57:26.624	0.1	259.4		7.48		TAS		62.5	1.71	m_e mb	5.3
GEC2	52.66		P	17:57:34.265		259.4		7.48		TAS				m_e	
GRA1	51.17		P	17:57:23.061	0.1	259.4		7.48		TAS				m_e	
MANZ	51.78		P	17:57:27.953	-0.4	259.4		7.48		TAS		67.0	1.99	m_e mb	5.2
MOX	51.58		P	17:57:26.421	-0.5	259.4		7.48		TAS		14.8	1.11	m_e mb	4.8
NRDL	51.01		P	17:57:22.370	0.0	259.4		7.48		TAS		40.5	1.25	m_e mb	5.2
TANN	52.07		P	17:57:30.149		259.4		7.48		TAS		98.4	2.24	m_e mb	5.3
TNS	49.51		P	17:57:10.546	0.3	259.4		7.48		TAS		65.0	1.69	m_e mb	5.3
WERN	52.00		P	17:57:30.242		259.4		7.48		TAS		83.3	1.74	m_e mb	5.4
WET	52.16		P	17:57:30.582		259.4		7.48		TAS		34.4	1.58	m_e mb	5.0

Event 1211004 Zaire

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/11	05:16:28.70			-0.0100	25.7600				14.3					51.06	51.06	m i ke	NEIC

1211067

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1211010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	51.06		P	05:25:32.416		161.2		7.59		TAS		33.7	1.66	m_e mb	5.0

Event 1211003 Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/11	10:50:16.63		0.55	55.5100	160.9250				33.0			22	151	70.26	73.70	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1211009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	70.48		P	11:01:27.176	0.1	16.0		4.90		TAS		20.1	1.25	m_e mb	5.1
BUG	71.19		P	11:01:31.352	0.2	16.0		4.90		TAS		24.6	1.03	m_e mb	5.3
CLL	70.27		P	11:01:25.752	-0.3	16.0		4.90		TAS		35.6	1.16	m_e mb	5.4
CLZ	70.26		P	11:01:26.490	0.3	16.0		4.90		TAS		44.0	1.06	m_e mb	5.5
FBE	70.56		P	11:01:28.205	-0.0	16.0		4.90		TAS				m_e	
GEC2	72.45		P	11:01:39.090		16.0		4.90		TAS		14.9	1.04	m_e mb	5.1
GRA1	72.16		P	11:01:37.732		16.0		4.90		TAS		43.4	1.19	m_e mb	5.5
GUNZ	71.30		P	11:01:32.459	0.0	16.0		4.90		TAS				m_e	
HKWD	70.87		P	11:01:29.708	-0.0	16.0		4.90		TAS				m_e	
MOX	71.17		P	11:01:31.549	-0.2	16.0		4.90		TAS		23.2	1.10	m_e mb	5.2
MULD	71.24		P	11:01:31.940	-0.1	16.0		4.90		TAS				m_e	
PLN	71.21		P	11:01:31.810	0.0	16.0		4.90		TAS				m_e	
RJOB	73.70		P	11:01:46.627		16.0		4.90		TAS		19.9	0.95	m_e mb	5.1
ROHR	71.42		P	11:01:33.107		16.0		4.90		TAS				m_e	
ROTZ	71.89		P	11:01:36.116		16.0		4.90		TAS		25.9	1.19	m_e mb	5.2
SCHD	71.35		P	11:01:32.511		16.0		4.90		TAS				m_e	
SCHF	70.98		P	11:01:30.565	0.1	16.0		4.90		TAS				m_e	
TAUT	70.83		P	11:01:29.319	0.1	16.0		4.90		TAS				m_e	
TNS	72.17		P	11:01:37.415		16.0		4.90		TAS		27.7	1.28	m_e mb	5.2
WERD	71.22		P	11:01:32.043	0.2	16.0		4.90		TAS				m_e	
WERN	71.36		P	11:01:32.978		16.0		4.90		TAS				m_e	
WET	72.34		P	11:01:38.661		16.0		4.90		TAS		25.4	1.08	m_e mb	5.3

Event 1211002 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2010/12/11 13:43:20.87 0.55 -21.9100 -180.3500 600.0 24 151 147.01 152.74 m i ke BGR  
 1211008

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.74		PKPab	14:02:23.755		18.1		4.18		TAS					m_e
BRG	149.00		PKPbc	14:02:01.719	0.1	20.0		2.23		TAS					m_e
BSEG	147.01		PKPbc	14:01:56.941	-0.4	20.0		2.23		TAS					m_e
BUG	149.93		PKPbc	14:02:03.926	-0.2	20.0		2.23		TAS					m_e
CLL	148.87		PKPbc	14:02:01.337	-0.2	20.0		2.23		TAS					m_e
CLZ	148.99		PKPbc	14:02:02.863	-0.2	20.0		2.23		TAS					m_e
FBE	149.12		PKPbc	14:02:02.341	-0.6	20.0		2.23		TAS					m_e
GEC2	150.88		PKPbc	14:02:06.429		20.0		2.23		TAS					m_e
GTTG	149.35		PKPbc	14:02:01.984	0.4	20.0		2.23		TAS					m_e
GUNZ	149.90		PKPbc	14:02:04.259	-0.3	20.0		2.23		TAS					m_e
GUNZ	149.90		PKPab	14:02:12.707		18.1		4.18		TAS					m_e
HKWD	149.49		PKPab	14:02:10.571		18.1		4.18		TAS					m_e
MOX	149.82		PKPbc	14:02:03.537	-0.0	20.0		2.23		TAS					m_e
NRDL	148.42		PKPbc	14:02:00.824	0.3	20.0		2.23		TAS					m_e
PLN	149.83		PKPbc	14:02:03.471	-0.2	20.0		2.23		TAS					m_e
ROHR	150.02		PKPbc	14:02:03.990		20.0		2.23		TAS					m_e
ROTZ	150.48		PKPbc	14:02:05.640		20.0		2.23		TAS					m_e
SCHF	149.60		PKPbc	14:02:03.614	-0.4	20.0		2.23		TAS					m_e
SCHF	149.60		PKPab	14:02:11.300		18.1		4.18		TAS					m_e
TANN	149.82		PKPbc	14:02:03.295	0.4	20.0		2.23		TAS					m_e
TAUT	149.49		PKPbc	14:02:03.184	-0.0	20.0		2.23		TAS					m_e
TAUT	149.49		PKPab	14:02:09.618		18.1		4.18		TAS					m_e
WERD	149.83		PKPbc	14:02:03.686	0.4	20.0		2.23		TAS					m_e
WERN	149.96		PKPab	14:02:12.929		18.1		4.18		TAS					m_e
WET	150.86		PKPbc	14:02:05.855		20.0		2.23		TAS					m_e
WET	150.86		PKPab	14:02:16.222		18.1		4.18		TAS					m_e
WIMM	149.04		PKPbc	14:02:01.695	-0.3	20.0		2.23		TAS					m_e
WLF	151.83		PKPbc	14:02:08.007		20.0		2.23		TAS					m_e

Event 1212006 South of Fiji Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/12 09:40:11.20 -23.9600 179.4800 550.9 4 150.77 151.02 m i ke NEIC  
 1212068

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	150.89		PKP	09:59:03.209	0.0	22.6		4.92		TAS					m_e

CLL	150.77	PKP	09:59:02.468	0.0	22.6	4.92	TAS	m_e
CLZ	150.93	PKP	09:59:03.184		22.6	4.92	TAS	m_e
FBE	151.02	PKP	09:59:03.764		22.6	4.92	TAS	m_e

Event 1212005 New Britain, Papua New Guinea, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/12	14:53:08.20			-6.4200	150.3600				9.0					124.93	124.93	m i ke	NEIC
OrigID 1212067																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	124.93		PKPdf	15:12:09.081		52.5		1.20		TAS					m_e

Event 1212004 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/12	15:55:15.72			-21.4200	-175.9500				33.0				28	147.19	152.93	m i ke	BGR
OrigID 1212010																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	152.93		PKPbc	16:15:09.797		11.9		2.51		TAS					m_e
BFO	152.93		PKPab	16:15:20.517		11.4		4.07		TAS					m_e
BRG	149.60		PKPbc	16:15:01.767	0.1	11.9		2.51		TAS					a_e
BSEG	147.19		PKPbc	16:14:55.517	-0.0	11.9		2.51		TAS					m_e
BUG	149.93		PKPbc	16:15:02.617	0.2	11.9		2.51		TAS					a_e
CLL	149.36		PKPbc	16:15:00.967	0.2	11.9		2.51		TAS					a_e
CLZ	149.24		PKPbc	16:15:01.167	-0.2	11.9		2.51		TAS					a_e
FBE	149.66		PKPbc	16:15:02.317	0.1	11.9		2.51		TAS					a_e
FUR	152.69		PKPab	16:15:19.790		11.4		4.07		TAS					m_e
GEC2	151.57		PKPbc	16:15:06.367		11.9		2.51		TAS					a_e
GTTG	149.58		PKPbc	16:15:01.767	-0.1	11.9		2.51		TAS					a_e
GUNZ	150.39		PKPbc	16:15:03.917	-0.0	11.9		2.51		TAS					a_e
MOX	150.23		PKPbc	16:15:03.417	-1.0	11.9		2.51		TAS					a_e
MULD	150.33		PKPbc	16:15:03.617	0.3	11.9		2.51		TAS					a_e
NEUB	149.68		PKPbc	16:15:01.917	0.4	11.9		2.51		TAS					a_e
NRDL	148.63		PKPbc	16:14:58.117	-1.1	11.9		2.51		TAS					a_e
PLN	150.30		PKPbc	16:15:02.417	0.1	11.9		2.51		TAS					a_e
ROHR	150.51		PKPbc	16:15:04.267	0.1	11.9		2.51		TAS					a_e
ROTZ	150.98		PKPbc	16:15:05.317	-0.5	11.9		2.51		TAS					a_e

SCHD	150.40	PKPbc	16:15:03.917	0.2	11.9	2.51	TAS	a_e
SCHF	150.07	PKPbc	16:15:03.117	0.2	11.9	2.51	TAS	a_e
STU	152.40	PKPbc	16:15:08.722		11.9	2.51	TAS	m_e
STU	152.40	PKPab	16:15:18.641		11.4	4.07	TAS	m_e
TANN	150.31	PKPbc	16:15:03.291	0.1	11.9	2.51	TAS	m_e
TAUT	149.89	PKPbc	16:15:02.617	0.2	11.9	2.51	TAS	a_e
TNS	151.05	PKPbc	16:15:05.258	0.1	11.9	2.51	TAS	m_e
TNS	151.05	PKPab	16:15:12.904		11.4	4.07	TAS	m_e
TRIB	150.43	PKPbc	16:15:03.771	0.4	11.9	2.51	TAS	m_e
WERD	150.31	PKPbc	16:15:03.567	-0.2	11.9	2.51	TAS	a_e
WERN	150.45	PKPbc	16:15:04.267	0.2	11.9	2.51	TAS	a_e
WIMM	149.40	PKPbc	16:15:01.317	0.2	11.9	2.51	TAS	a_e

Event 1212003 Kermadec Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/12	17:50:36.80			-27.8800	-176.9400				24.2			25		153.43	158.77	m i ke	NEIC
	1212065																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	155.60		PKPbc	18:10:36.967	-0.2	15.5		2.27		TAS					m_e
BRG	155.60		PKPab	18:10:52.971	0.1	17.0		4.50		TAS					m_e
BSEG	153.43		PKPbc	18:10:31.637	0.0	15.5		2.27		TAS					m_e
CLL	155.43		PKPbc	18:10:36.232	0.1	15.5		2.27		TAS					m_e
CLL	155.43		PKPab	18:10:52.411	0.1	17.0		4.50		TAS					m_e
FBE	155.70		PKPbc	18:10:37.034		15.5		2.27		TAS					m_e
FBE	155.70		PKPab	18:10:54.009	0.0	17.0		4.50		TAS					m_e
FUR	158.77		PKPab	18:11:07.559		17.0		4.50		TAS					m_e
GEC2	157.51		PKPab	18:11:02.041		17.0		4.50		TAS					m_e
GRA1	157.34		PKPab	18:11:01.393		17.0		4.50		TAS					m_e
GTTG	155.80		PKPab	18:10:53.901	0.0	17.0		4.50		TAS					m_e
GUNZ	156.46		PKPab	18:10:57.511	-0.4	17.0		4.50		TAS					m_e
MOX	156.35		PKPab	18:10:56.598	0.2	17.0		4.50		TAS					m_e
NRDL	154.86		PKPbc	18:10:34.827	-0.0	15.5		2.27		TAS					m_e
PLN	156.38		PKPab	18:10:56.826	0.4	17.0		4.50		TAS					m_e
RJOB	158.77		PKPab	18:11:07.940		17.0		4.50		TAS					m_e
ROHR	156.59		PKPab	18:10:57.968	-0.0	17.0		4.50		TAS					m_e
ROTZ	157.05		PKPab	18:11:00.139		17.0		4.50		TAS					m_e
SCHD	156.54		PKPab	18:10:57.283	0.4	17.0		4.50		TAS					m_e
SCHF	156.15		PKPbc	18:10:38.100		15.5		2.27		TAS					m_e
SCHF	156.15		PKPab	18:10:55.912	-0.1	17.0		4.50		TAS					m_e
TANN	156.38		PKPab	18:10:56.521	0.3	17.0		4.50		TAS					m_e
TAUT	156.01		PKPbc	18:10:37.421		15.5		2.27		TAS					m_e
TAUT	156.01		PKPab	18:10:55.303	-0.3	17.0		4.50		TAS					m_e



TNS	157.31	PKPab	18:11:00.556	17.0	4.50	TAS	m_e
TRIB	156.52	PKPab	18:10:57.587	-0.3 17.0	4.50	TAS	m_e
WERD	156.39	PKPab	18:10:57.054	0.2 17.0	4.50	TAS	m_e
WERN	156.52	PKPab	18:10:57.892	-0.4 17.0	4.50	TAS	m_e
WET	157.46	PKPab	18:11:01.622	17.0	4.50	TAS	m_e
WIMM	155.54	PKPbc	18:10:36.696	-0.0 15.5	2.27	TAS	m_e
WIMM	155.54	PKPab	18:10:52.593	0.2 17.0	4.50	TAS	m_e

Event 1212002 Zaire

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/12	20:34:22.20			0.7800	29.6600				21.6					51.22	51.22	m i ke	NEIC
OrigID 1212065																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	1212008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	51.22		P	20:43:22.058		156.1		7.13		TAS		13.3	1.19	m_e mb	4.7

Event 1213005 Bougainville - Solomon Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/13	01:14:43.70		0.45	-6.5600	155.6500				144.8	0.3		21	261	125.08	129.99	m i ke	NEIC
OrigID 1213066																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	128.93		PKPdf	01:33:34.510	-0.0	46.9		1.96		TAS				a_e	
AHRW	128.93		pPKPdf	01:34:11.444						T__				a_e	
BFO	129.99		PKPdf	01:33:36.060	-0.3	46.9		1.96		TAS				m_e	
BFO	129.99		pPKPdf	01:34:13.044						T__				a_e	
BFO	129.99		PP	01:35:50.902						T__				m_e	
BRG	125.58		PKPdf	01:33:27.860	0.1	46.9		1.96		TAS				a_e	
BRG	125.58		pPKPdf	01:34:04.794						T__				a_e	
BRG	125.58		PP	01:35:21.802	0.0					T__				a_e	
BSEG	125.08		PKPdf	01:33:26.960	-0.2	46.9		1.96		TAS				m_e	
BSEG	125.08		pPKPdf	01:34:03.944						T__				m_e	
BSEG	125.08		PP	01:35:17.652	-0.0					T__				a_e	
BUG	128.17		PKPdf	01:33:32.810	-0.3	46.9		1.96		TAS				a_e	
BUG	128.17		pPKPdf	01:34:09.744						T__				a_e	
CLL	125.74		PKPdf	01:33:27.860	-0.2	46.9		1.96		TAS				a_e	

CLL	125.74	pPKPdf	01:34:04.844							T__	a_e
CLL	125.74	PP	01:35:22.302	-0.3						T__	a_e
CLZ	126.56	PKPdf	01:33:30.060	0.2	46.9		1.96			TAS	a_e
CLZ	126.56	pPKPdf	01:34:06.994							T__	a_e
CLZ	126.56	PP	01:35:28.002	0.4						T__	a_e
FUR	128.68	PKPdf	01:33:33.810	0.0	46.9		1.96			TAS	a_e
FUR	128.68	pPKPdf	01:34:10.744							T__	a_e
FUR	128.68	PP	01:35:42.302							T__	a_e
GEC2	127.02	PKPdf	01:33:30.610	0.1	46.9		1.96			TAS	a_e
GEC2	127.02	pPKPdf	01:34:07.594							T__	a_e
GRA1	127.67	PKPdf	01:33:31.860	0.0	46.9		1.96			TAS	a_e
GRA1	127.67	pPKPdf	01:34:08.894							T__	a_e
GRA1	127.67	PP	01:35:35.077	0.3						T__	m_e
GTTG	126.95	PKPdf	01:33:30.660	0.1	46.9		1.96			TAS	a_e
GTTG	126.95	pPKPdf	01:34:07.594							T__	a_e
IBBN	127.32	PKPdf	01:33:31.310	-0.2	46.9		1.96			TAS	a_e
IBBN	127.32	pPKPdf	01:34:08.294							T__	a_e
MOX	126.83	PKPdf	01:33:30.260	0.0	46.9		1.96			TAS	a_e
MOX	126.83	pPKPdf	01:34:07.194							T__	a_e
MOX	126.83	PP	01:35:30.452	-0.7						T__	a_e
NRDL	126.21	PKPdf	01:33:29.310	0.1	46.9		1.96			TAS	a_e
NRDL	126.21	pPKPdf	01:34:06.244							T__	a_e
RJOB	128.19	PKPdf	01:33:32.360	-0.5	46.9		1.96			TAS	a_e
RJOB	128.19	pPKPdf	01:34:09.394							T__	a_e
RJOB	128.19	PP	01:35:40.245							T__	m_e
ROTZ	127.15	PKPdf	01:33:31.060	0.2	46.9		1.96			TAS	a_e
ROTZ	127.15	pPKPdf	01:34:08.094							T__	a_e
STU	129.27	PKPdf	01:33:35.010	0.0	46.9		1.96			TAS	a_e
STU	129.27	pPKPdf	01:34:11.944							T__	a_e
STU	129.27	PP	01:35:46.302							T__	a_e
TANN	126.59	PKPdf	01:33:29.910	0.2	46.9		1.96			TAS	a_e
TANN	126.59	pPKPdf	01:34:06.844							T__	a_e
TANN	126.59	PP	01:35:28.752	0.7						T__	a_e
TNS	128.57	PKPdf	01:33:33.760	0.0	46.9		1.96			TAS	a_e
TNS	128.57	pPKPdf	01:34:10.694							T__	a_e
TNS	128.57	PP	01:35:40.044							T__	m_e
WET	127.23	PKPdf	01:33:31.210	0.2	46.9		1.96			TAS	a_e
WET	127.23	pPKPdf	01:34:08.144							T__	a_e
WET	127.23	PP	01:35:32.292	-0.3						T__	m_e
WLF	129.98	PKPdf	01:33:37.160	0.6	46.9		1.96			TAS	m_e
WLF	129.98	pPKPdf	01:34:14.094							T__	a_e

Event 1213004 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/13	05:19:48.42		0.45	27.2200	130.2280				33.0				261	86.24	86.24	m i ke	BGR

1213010

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1213010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	86.24		P	05:32:25.848		56.6		4.54		TAS		19.4	1.44	m_e	mb	5.0

Event 1213003 Southwest of Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/13	09:18:29.90		0.45	-6.3800	103.9600				30.1			6	261	94.91	96.36	m_i	ke NEIC
OrigID 1213065																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	94.91		Pdiff	09:31:49.503	-0.1					T__				m_e	
GEC2	94.92		Pdiff	09:31:49.774						T__				m_e	
GRB3	96.20		Pdiff	09:31:55.892						T__				m_e	
GRB4	96.36		Pdiff	09:31:56.579						T__				m_e	
TANN	95.82		Pdiff	09:31:53.968	0.2					T__				m_e	
WET	95.48		Pdiff	09:31:52.776						T__				m_e	

Event 1214005 South of Kermadec Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/14	01:16:20.20		0.77	-32.6000	-179.5500				33.0				193	159.16	161.13	m_i	ke GSRC
OrigID 1214080																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	159.21		PKPab	01:36:52.168		29.2		4.32		TAS				m_e	
CLL	159.16		PKPab	01:36:51.715		29.2		4.32		TAS				m_e	
FBE	159.37		PKPab	01:36:52.885		29.2		4.32		TAS				m_e	
GRA1	161.13		PKPab	01:37:00.655		29.2		4.32		TAS				m_e	
GUNZ	160.19		PKPab	01:36:56.434		29.2		4.32		TAS				m_e	
HKWD	159.81		PKPab	01:36:54.965		29.2		4.32		TAS				m_e	
MOX	160.17		PKPab	01:36:56.099		29.2		4.32		TAS				m_e	
MULD	160.12		PKPab	01:36:56.514		29.2		4.32		TAS				m_e	
NEUB	159.64		PKPab	01:36:54.048		29.2		4.32		TAS				m_e	
PLN	160.14		PKPab	01:36:56.227		29.2		4.32		TAS				m_e	

ROHR	160.31	PKPab	01:36:57.103	29.2	4.32	TAS	m_e
ROTZ	160.74	PKPab	01:36:58.968	29.2	4.32	TAS	m_e
TANN	160.10	PKPab	01:36:56.299	29.2	4.32	TAS	m_e
TRIB	160.26	PKPab	01:36:56.944	29.2	4.32	TAS	m_e
WERN	160.24	PKPab	01:36:56.530	29.2	4.32	TAS	m_e
WET	161.03	PKPab	01:37:00.313	29.2	4.32	TAS	m_e

Event 1214002 Fox Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/14	14:33:39.16		0.45	53.6750	-169.7640				39.6			21	261	72.76	78.94	m i ke	BGR
	1214008																

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1214008
Ms	4.7		BGR	1214008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	76.12		P	14:45:20.885	0.1	0.6		5.67		TAS		35.4	1.02	a_e mb	5.4
BFO	78.36		P	14:45:33.185	-0.3	0.6		5.67		TAS		46.8	1.29	a_e mb	5.5
BRG	75.78		P	14:45:18.735	-0.1	0.6		5.67		TAS		54.0	1.39	m_e mb	5.5
BSEG	72.76		P	14:45:01.585	-0.1	0.6		5.67		TAS		49.3	1.15	m_e mb	5.5
BUG	75.23		P	14:45:15.385	-0.3	0.6		5.67		TAS		48.7	1.17	a_e mb	5.4
CLL	75.36		P	14:45:16.085	-0.4	0.6		5.67		TAS		26.7	1.07	a_e mb	5.2
CLZ	74.86		P	14:45:13.935	0.3	0.6		5.67		TAS		67.0	1.23	m_e mb	5.5
FUR	78.53		P	14:45:34.435	-0.1	0.6		5.67		TAS		107.7	1.49	a_e mb	5.7
GEC2	77.81		P	14:45:30.335	-0.0	0.6		5.67		TAS		52.5	1.39	a_e mb	5.5
GRA1	77.01		L	15:11:40.863						T__		663.3	19.70	a_e Ms	5.0
GRA1	77.01		P	14:45:26.185	0.4	0.6		5.67		TAS		93.5	1.31	a_e mb	5.8
GTTG	75.15		P	14:45:15.435	0.1	0.6		5.67		TAS		75.3	1.28	a_e mb	5.6
IBBN	74.37		P	14:45:10.835	0.0	0.6		5.67		TAS		77.6	1.10	a_e mb	5.6
MOX	76.05		L	15:24:20.305						T__		201.1	21.20	a_e Ms	4.4
MOX	76.05		P	14:45:20.385	-0.0	0.6		5.67		TAS		44.9	1.21	a_e mb	5.5
NRDL	74.20		P	14:45:09.735	-0.2	0.6		5.67		TAS		41.7	1.24	a_e mb	5.3
RJOB	78.94		P	14:45:36.535	-0.3	0.6		5.67		TAS		29.9	1.26	a_e mb	5.2
ROTZ	76.92		P	14:45:25.735	0.4	0.6		5.67		TAS		47.7	1.39	a_e mb	5.4
STU	77.93		P	14:45:30.785	-0.2	0.6		5.67		TAS		43.2	1.12	a_e mb	5.5
TANN	76.27		P	14:45:21.835	0.2	0.6		5.67		TAS		54.3	1.67	a_e mb	5.4
TNS	76.47		P	14:45:22.685	-0.1	0.6		5.67		TAS		43.8	1.28	a_e mb	5.4
WET	77.53		P	14:45:29.035	0.2	0.6		5.67		TAS		37.5	1.32	a_e mb	5.4
WET	77.53		pP	14:45:40.393						T__				m_e	
WLF	76.98		P	14:45:25.835	0.3	0.6		5.67		TAS		73.1	1.48	a_e mb	5.6

Event 1215006 Hokkaido, Japan, region  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/15 05:43:54.25 0.47 42.5810 143.3320 33.0 302 78.99 78.99 m i ke BGR  
 1215012

Magnitude Err Nsta Author OrigID  
 mb 5.1 BGR 1215012

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 GRA1 78.99 P 05:55:53.436 36.4 4.92 TAS 15.7 0.80 m\_e mb 5.1

Event 1215003 Banda Sea  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/15 11:29:30.50 0.17 -7.2500 128.8100 132.0 14 254 111.18 115.44 m i ke NEIC  
 1215057

Magnitude Err Nsta Author OrigID

Sta Dist EvAz Phase Time TRes Azim AzRes Slow SRes Def SNR Amp Per Qual Magnitude  
 AHRW 115.44 PKiKP 11:47:56.588 77.5 1.83 TAS m\_e  
 AHRW 115.44 PP 11:48:59.477 72.9 7.07 TAS m\_e  
 BFO 115.42 PKiKP 11:47:55.096 77.5 1.83 TAS m\_e  
 BFO 115.42 PP 11:48:59.376 72.9 7.07 TAS m\_e  
 BRG 111.18 PKiKP 11:47:48.622 0.3 77.5 1.83 TAS m\_e  
 BRG 111.18 PP 11:48:29.413 0.0 72.9 7.07 TAS m\_e  
 BSEG 112.39 PKiKP 11:47:51.448 0.3 77.5 1.83 TAS m\_e  
 CLL 111.64 PKiKP 11:47:48.828 -0.4 77.5 1.83 TAS m\_e  
 CLL 111.64 PP 11:48:32.530 -0.1 72.9 7.07 TAS m\_e  
 CLZ 113.04 PKiKP 11:47:51.951 -0.2 77.5 1.83 TAS m\_e  
 FUR 113.59 PKiKP 11:47:52.412 -0.8 77.5 1.83 TAS m\_e  
 GTTG 113.38 PP 11:48:45.018 72.9 7.07 TAS m\_e  
 IBBN 114.41 PKiKP 11:47:54.446 0.3 77.5 1.83 TAS m\_e  
 NRDL 112.99 PKiKP 11:47:51.371 -0.0 77.5 1.83 TAS m\_e  
 RJOB 112.72 PKiKP 11:47:50.420 -0.0 77.5 1.83 TAS m\_e  
 RJOB 112.72 PP 11:48:40.396 -0.0 72.9 7.07 TAS m\_e  
 STU 114.73 PKiKP 11:47:55.495 77.5 1.83 TAS m\_e  
 TANN 112.21 PKiKP 11:47:50.420 0.2 77.5 1.83 TAS m\_e  
 TNS 114.72 PKiKP 11:47:55.012 77.5 1.83 TAS m\_e  
 TNS 114.72 PP 11:48:54.486 72.9 7.07 TAS m\_e  
 WET 112.30 PKiKP 11:47:50.378 0.2 77.5 1.83 TAS m\_e  
 WET 112.30 PP 11:48:37.399 -0.0 72.9 7.07 TAS m\_e

Event 1215002 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/15	14:19:42.89			27.8080	130.5590				33.0					85.93	85.93	m i ke	BGR
OrigID 1215008																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1215008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	85.93		P	14:32:18.738		57.9		4.71		TAS		16.0	1.12	m_e	mb 5.1

Event 1215001 Near east coast of Kamchatka Peninsula, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/15	14:38:51.14			53.1820	158.0670				196.6				16	69.94	75.65	m i ke	BGR
OrigID 1215007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1215007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	73.80		P	14:50:02.699	0.2	20.0		5.96		TAS		37.0	1.36	m_e	mb 5.2
BFO	75.65		P	14:50:12.981		20.0		5.96		TAS		8.0	0.66	m_e	mb 5.0
BSEG	69.94		P	14:49:39.469	-0.0	20.0		5.96		TAS		25.4	1.08	m_e	mb 5.3
BUG	72.90		P	14:49:56.948	0.3	20.0		5.96		TAS		27.6	0.90	m_e	mb 5.4
CLL	71.82		P	14:49:50.241	-0.6	20.0		5.96		TAS		33.6	0.96	m_e	mb 5.4
CLL	71.82		pP	14:50:36.902						T__				m_e	
CLZ	71.90		P	14:49:51.324	0.1	20.0		5.96		TAS		33.4	1.01	m_e	mb 5.4
GEC2	73.96		P	14:50:03.356	-0.6	20.0		5.96		TAS		6.7	0.70	m_e	mb 4.8
GRA1	73.74		P	14:50:02.699	0.2	20.0		5.96		TAS		41.4	1.26	m_e	mb 5.3
GTTG	72.26		P	14:49:53.457	-0.0	20.0		5.96		TAS		41.6	1.61	m_e	mb 5.3
IBBN	71.98		P	14:49:51.659	0.0	20.0		5.96		TAS		67.6	1.36	m_e	mb 5.6
MOX	72.76		P	14:49:56.341	-0.2	20.0		5.96		TAS		19.7	1.19	m_e	mb 5.1
NRDL	71.34		P	14:49:47.940	0.1	20.0		5.96		TAS		18.4	0.89	m_e	mb 5.2
ROTZ	73.45		P	14:50:00.848	0.5	20.0		5.96		TAS		11.9	0.90	m_e	mb 5.0
TANN	72.78		P	14:49:56.340	-0.2	20.0		5.96		TAS		9.3	0.98	m_e	mb 4.9
TNS	73.83		P	14:50:02.973	0.3	20.0		5.96		TAS		59.0	1.88	m_e	mb 5.3
WET	73.87		P	14:50:03.337	-0.1	20.0		5.96		TAS		20.5	1.14	m_e	mb 5.1

Event 1216005 Kermadec Islands, New Zealand

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2010/12/16 02:10:25.00 0.67 -30.1700 -177.9300 37.5 19 150 155.51 161.24 m i ke NEIC  
 1216067

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	159.31		PKPab	02:30:55.614	0.5	22.9		4.39		TAS				a_e	
BFO	161.24		PKPab	02:31:03.814		22.9		4.39		TAS				a_e	
BRG	157.49		PKPab	02:30:47.664	0.2	22.9		4.39		TAS				a_e	
BSEG	155.51		PKPab	02:30:39.064	0.3	22.9		4.39		TAS				a_e	
BUG	158.40		PKPdf	02:30:19.611		22.9		4.39		TAS				m_e	
BUG	158.40		PKPab	02:30:51.214	0.4	22.9		4.39		TAS				a_e	
CLL	157.37		PKPab	02:30:46.764	-0.0	22.9		4.39		TAS				a_e	
CLZ	157.49		PKPab	02:30:47.764	-0.4	22.9		4.39		TAS				a_e	
FUR	160.69		PKPab	02:31:01.964	-0.1	22.9		4.39		TAS				a_e	
GRA1	159.31		PKPab	02:30:56.064	-0.0	22.9		4.39		TAS				a_e	
GTTG	157.85		PKPab	02:30:49.214	0.0	22.9		4.39		TAS				a_e	
IBBN	157.49		PKPab	02:30:47.664	0.3	22.9		4.39		TAS				m_e	
MOX	158.33		PKPab	02:30:51.214	-0.5	22.9		4.39		TAS				a_e	
RJOB	160.61		PKPab	02:31:01.996	-0.1	22.9		4.39		TAS				m_e	
ROTZ	158.98		PKPab	02:30:54.764	-0.1	22.9		4.39		TAS				a_e	
STU	160.64		PKPab	02:31:01.214	0.1	22.9		4.39		TAS				a_e	
TANN	158.32		PKPab	02:30:51.464	-0.1	22.9		4.39		TAS				a_e	
TNS	159.40		PKPab	02:30:55.814	0.1	22.9		4.39		TAS				m_e	
WET	159.34		PKPab	02:30:56.214	-0.1	22.9		4.39		TAS				a_e	
WLF	160.28		PKPab	02:31:00.214	-0.1	22.9		4.39		TAS				a_e	

Event 1216004 Central Peru

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/16 07:12:20.02 0.67 -11.2150 -72.3900 33.0 150 91.16 95.31 m i ke BGR  
 1216010

Magnitude Err Nsta Author

OrigID

mb 5.6 BGR 1216010  
 Ms 4.5 BGR 1216010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	91.97		P	07:25:27.014	0.2	252.2		5.52		TAS		56.1	1.64	m_e mb	5.6
BUG	92.32		P	07:25:28.453	0.1	252.2		5.52		TAS		75.8	1.58	m_e mb	5.8
GRA1	94.36		L	08:10:24.159						T__		284.9	21.70	a_e Ms	4.7
MOX	94.81		L	08:07:07.585						T__		106.7	21.50	a_e Ms	4.3
RJOB	94.99		P	07:25:40.338		252.2		5.52		TAS		15.0	1.05	m_e mb	5.4
ROTZ	95.00		P	07:25:40.964		252.2		5.52		TAS				m_e	
TANN	95.29		P	07:25:42.528		252.2		5.52		TAS		58.7	2.08	m_e mb	5.7

WET	95.31	P	07:25:42.169	252.2	5.52	TAS	35.1	1.59	m_e	mb	5.5
WLF	91.16	P	07:25:22.797	0.0 252.2	5.52	TAS	43.5	1.02	m_e	mb	5.7

Event 1216001 South of Aleutian Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/16	14:57:39.86			50.9090	-169.7420				33.0					79.78	79.78	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1216007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	79.78		P	15:09:43.047		1.5		4.75		TAS		21.5	0.94	m_e	mb	5.1

Event 1217002 Aegean Sea

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/17	09:38:05.10		0.68	38.9080	25.8940				223.2				1 260	15.02	15.02	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1217008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	15.02		P	09:41:26.471		136.2		11.20		TAS		17.8	1.19	m_e	

Event 1217004 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/17	21:36:53.73		0.31	-23.4700	-179.0800				33.0				13 180	148.76	153.99	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	150.83		PKPbc	21:56:42.865	0.1	19.6		2.39		TAS				m_e	
BSEG	148.76		PKPbc	21:56:37.585	-0.2	19.6		2.39		TAS				m_e	
CLL	150.68		PKPbc	21:56:42.411	0.1	19.6		2.39		TAS				m_e	
CLZ	150.75		PKPbc	21:56:42.865	0.4	19.6		2.39		TAS				m_e	



GEC2	152.73	PKPbc	21:56:47.067	19.6	2.39	TAS	m_e
GRA1	152.61	PKPbc	21:56:46.953	19.6	2.39	TAS	m_e
IBBN	150.74	PKPbc	21:56:42.354	-0.3 19.6	2.39	TAS	m_e
MOX	151.62	PKPbc	21:56:44.796	0.2 19.6	2.39	TAS	m_e
NRDL	150.18	PKPbc	21:56:41.162	0.0 19.6	2.39	TAS	m_e
RJOB	153.99	PKPbc	21:56:50.449	19.6	2.39	TAS	m_e
ROTZ	152.30	PKPbc	21:56:46.331	19.6	2.39	TAS	m_e
TANN	151.64	PKPbc	21:56:44.796	0.1 19.6	2.39	TAS	m_e
TNS	152.66	PKPbc	21:56:47.180	0.1 19.6	2.39	TAS	m_e

Event 1217005 Western Brazil

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/17	22:14:41.41		0.31	-6.4100	-69.5900				578.1			19	180	85.71	90.85	m i ke	BGR
OrigID 1217011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1217011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	86.51		P	22:26:23.365	0.3	258.7		4.68		TAS		6.6	0.81	m_e	mb 4.8
BFO	86.78		P	22:26:23.877	-0.5	258.7		4.68		TAS		5.3	0.91	m_e	mb 4.7
BRG	90.85		P	22:26:43.439		258.7		4.68		TAS		6.0	0.96	a_e	mb 4.9
BSEG	89.22		P	22:26:35.389	-0.5	258.7		4.68		TAS		11.4	0.87	m_e	mb 5.1
BUG	86.85		P	22:26:24.698	0.3	258.7		4.68		TAS		5.2	0.93	m_e	mb 4.6
CLZ	88.83		P	22:26:34.289	0.3	258.7		4.68		TAS		4.0	0.93	a_e	mb 4.6
FUR	88.67		P	22:26:33.189	0.1	258.7		4.68		TAS		12.4	0.85	a_e	mb 5.2
GEC2	90.38		P	22:26:40.839	0.1	258.7		4.68		TAS		7.0	0.82	a_e	mb 4.9
GRA1	88.93		P	22:26:34.639	-0.4	258.7		4.68		TAS		5.0	0.91	a_e	mb 4.7
IBBN	87.36		P	22:26:26.839	-0.2	258.7		4.68		TAS		9.2	0.76	a_e	mb 5.0
MOX	89.36		P	22:26:35.895	0.3	258.7		4.68		TAS		1.5	0.74	m_e	mb 4.3
NRDL	88.80		P	22:26:33.939	0.4	258.7		4.68		TAS		4.4	0.91	a_e	mb 4.7
RJOB	89.60		P	22:26:37.389	0.4	258.7		4.68		TAS		20.3	1.08	a_e	mb 5.3
ROTZ	89.57		P	22:26:37.689	-0.1	258.7		4.68		TAS		7.9	0.87	a_e	mb 5.0
STU	87.44		P	22:26:27.189	0.1	258.7		4.68		TAS		10.6	0.79	a_e	mb 5.0
TANN	89.85		P	22:26:39.039	0.1	258.7		4.68		TAS		7.1	1.07	a_e	mb 4.8
TNS	87.29		P	22:26:26.688	-0.2	258.7		4.68		TAS		6.9	0.73	m_e	mb 4.9
WET	89.89		P	22:26:38.939	-0.3	258.7		4.68		TAS		6.4	0.90	a_e	mb 4.8
WLF	85.71		P	22:26:19.589	0.2	258.7		4.68		TAS		30.9	0.84	m_e	mb 5.5

Event 1218001 Rat Islands, Aleutian Islands, United States

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

2010/12/18 00:43:26.47 0.31 50.6700 177.7800 33.0 21 180 75.24 81.13 m i ke BGR  
1218007

Magnitude Err Nsta Author OrigID  
mb 4.8 BGR 1218007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.86		P	00:55:30.027	0.3	8.6		5.50		TAS		13.2	0.83	a_e	mb 5.0
BFO	80.97		P	00:55:41.520	-0.3	8.6		5.50		TAS		4.3	0.85	m_e	mb 4.5
BRG	77.90		P	00:55:24.568	-0.8	8.6		5.50		TAS		3.7	0.86	m_e	mb 4.5
BSEG	75.24		P	00:55:09.927	0.1	8.6		5.50		TAS		22.1	0.87	m_e	mb 5.2
BUG	77.95		P	00:55:24.985	-1.1	8.6		5.50		TAS		8.9	0.84	m_e	mb 4.9
CLL	77.58		P	00:55:22.894	-0.3	8.6		5.50		TAS		4.9	0.79	m_e	mb 4.7
CLZ	77.31		P	00:55:21.827	0.6	8.6		5.50		TAS		13.9	0.85	a_e	mb 5.1
FUR	80.87		P	00:55:41.127	0.2	8.6		5.50		TAS		13.5	0.86	a_e	mb 5.0
GEC2	79.93		P	00:55:35.603	-0.4	8.6		5.50		TAS		3.8	0.81	m_e	mb 4.4
GRA1	79.36		P	00:55:32.918	-0.2	8.6		5.50		TAS		11.9	0.83	m_e	mb 5.0
GTTG	77.64		P	00:55:23.527	0.4	8.6		5.50		TAS		9.3	0.76	a_e	mb 5.0
IBBN	77.05		P	00:55:20.077	0.3	8.6		5.50		TAS		31.2	0.86	a_e	mb 5.5
MOX	78.38		P	00:55:27.427	0.2	8.6		5.50		TAS		6.3	0.82	a_e	mb 4.8
NRDL	76.68		P	00:55:17.877	0.0	8.6		5.50		TAS		11.9	0.89	a_e	mb 5.0
RJOB	81.13		P	00:55:42.727	0.4	8.6		5.50		TAS		8.1	0.77	a_e	mb 4.8
ROTZ	79.19		P	00:55:32.327	0.7	8.6		5.50		TAS		4.9	0.95	a_e	mb 4.5
STU	80.46		P	00:55:38.256	-0.9	8.6		5.50		TAS		8.3	0.88	m_e	mb 4.7
TANN	78.52		P	00:55:28.208	-0.5	8.6		5.50		TAS		3.2	0.88	m_e	mb 4.4
TNS	79.08		P	00:55:31.364	0.1	8.6		5.50		TAS		9.4	0.82	m_e	mb 4.9
WET	79.73		P	00:55:34.685	0.6	8.6		5.50		TAS		3.5	0.91	m_e	mb 4.3
WLF	79.79		P	00:55:35.177	0.3	8.6		5.50		TAS		11.1	0.87	a_e	mb 4.8

Event 1218002 Fiji Islands region

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2010/12/18 04:04:12.31 0.31 -19.9800 -179.8200 451.2 12 180 147.15 150.96 m i ke BGR  
1218008

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.02		PKPbc	04:23:08.619	0.3	19.8		2.57		TAS				m_e	
BFO	150.96		PKPbc	04:23:12.927	-0.2	19.8		2.57		TAS				m_e	
BRG	147.31		PKPbc	04:23:03.695	-0.1	19.8		2.57		TAS				m_e	
CLL	147.15		PKPbc	04:23:02.856	-0.4	19.8		2.57		TAS				m_e	
CLZ	147.22		PKPbc	04:23:03.191	-0.3	19.8		2.57		TAS				m_e	
GEC2	149.22		PKPbc	04:23:09.010	0.2	19.8		2.57		TAS				m_e	
GRA1	149.07		PKPbc	04:23:08.675	0.5	19.8		2.57		TAS				m_e	
RJOB	150.48		PKPbc	04:23:11.473	-0.5	19.8		2.57		TAS				m_e	

ROTZ	148.77	PKPbc	04:23:07.947	0.5	19.8	2.57	TAS	m_e
TANN	148.10	PKPbc	04:23:05.877	0.1	19.8	2.57	TAS	m_e
TNS	149.12	PKPbc	04:23:08.451	0.1	19.8	2.57	TAS	m_e
WLF	150.00	PKPbc	04:23:10.758	-0.2	19.8	2.57	TAS	m_e

Event 1218005 East of Lake Baykal, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/18	14:10:43.84		0.35	59.6440	117.6490				33.0				141	55.82	55.82	m i ke	BGR
OrigID 1218011																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.5		BGR	1218011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	55.82		P	14:20:16.627		34.0		6.59		TAS		5.6	1.00	m_e mb	4.5

Event 1218007 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/18	22:24:07.31		0.80	-16.8910	-179.8590				33.0				199	146.07	146.07	m i ke	BGR
OrigID 1218013																	

Magnitude	Err	Nsta	Author	OrigID
Ms	5.5		BGR	1218013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.07		PKPbc	22:43:47.948		12.9		2.91		TAS				m_e	
GRA1	146.07		L	23:49:53.842						T__		910.2	20.30	a_e Ms	5.5

Event 1218008 Samoa Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/18	22:41:37.62		0.80	-15.7430	-171.1010				33.0				199	146.09	146.09	m i ke	BGR
OrigID 1218014																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.09		PKPbc	23:01:18.406		9.0		2.83		TAS				m_e	

Event 1218009 Off west coast of northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/18	22:56:30.65		0.80	4.4000	94.9100				33.0			17	199	80.90	85.87	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.7		BGR	1218015
Ms	5.0		BGR	1218015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	84.47		P	23:09:04.856		92.4		5.16		TAS		4.4	0.79	m_e mb	4.7
BRG	80.90		P	23:08:46.446	-0.4	92.4		5.16		TAS		5.2	0.83	m_e mb	4.6
BSEG	83.28		P	23:08:58.989	0.1	92.4		5.16		TAS		5.1	0.86	m_e mb	4.8
CLL	81.52		P	23:08:49.986	-0.1	92.4		5.16		TAS		3.2	0.90	m_e mb	4.5
CLZ	83.19		P	23:08:58.483	0.5	92.4		5.16		TAS		4.4	0.83	m_e mb	4.7
GEC2	80.92		P	23:08:47.053	-0.1	92.4		5.16		TAS		13.0	0.76	m_e mb	5.0
GRA1	82.58		P	23:08:55.954	0.5	92.4		5.16		TAS		7.3	0.90	m_e mb	4.9
GRA1	82.58		L	23:49:53.864						T__		910.2	20.30	a_e Ms	5.1
GTTG	83.43		P	23:08:59.881		92.4		5.16		TAS		2.8	0.79	m_e mb	4.5
IBBN	84.80		P	23:09:06.879		92.4		5.16		TAS		7.3	0.85	m_e mb	4.9
MOX	82.36		P	23:08:54.336	0.5	92.4		5.16		TAS		3.4	1.05	m_e mb	4.4
MOX	82.36		L	23:43:59.690						T__		578.7	21.80	a_e Ms	4.9
NRDL	83.37		P	23:09:00.102	-0.2	92.4		5.16		TAS		19.5	1.41	m_e mb	5.1
RJOB	81.46		P	23:08:49.379	-0.1	92.4		5.16		TAS		6.8	0.73	m_e mb	4.8
ROTZ	81.94		P	23:08:52.717	-0.2	92.4		5.16		TAS		5.1	0.84	m_e mb	4.7
TANN	81.81		P	23:08:51.635		92.4		5.16		TAS		4.4	1.19	m_e mb	4.5
TNS	84.38		P	23:09:04.856		92.4		5.16		TAS		6.3	0.88	m_e mb	4.9
WET	81.48		P	23:08:49.582	-0.2	92.4		5.16		TAS		5.7	0.85	m_e mb	4.6
WLF	85.87		P	23:09:12.560		92.4		5.16		TAS		4.8	1.00	m_e mb	4.6

Event 1219001 New Caledonia region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/19	00:01:52.54		0.80	-24.0700	168.0600				33.0			13	199	146.72	150.96	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.73		PKPbc	00:21:42.547	0.2	42.6		2.70		TAS				m_e	
BFO	150.96		PKPbc	00:21:45.717		42.6		2.70		TAS				m_e	

BFO	150.96	pPKPbc	00:22:18.773	1.3						T__						m_e
CLL	146.72	PKPbc	00:21:32.758	2.0	42.6		2.70			TAS						m_e
FUR	149.73	PKPbc	00:21:42.966	0.5	42.6		2.70			TAS						m_e
GEC2	148.09	PKPbc	00:21:37.643	0.7	42.6		2.70			TAS						m_e
MOX	147.80	PKPbc	00:21:35.669	-1.3	42.6		2.70			TAS						m_e
RJOB	149.27	PKPbc	00:21:41.710	0.1	42.6		2.70			TAS						m_e
ROTZ	148.17	PKPbc	00:21:37.464	-0.5	42.6		2.70			TAS						m_e
STU	150.25	PKPbc	00:21:43.504	0.2	42.6		2.70			TAS						m_e
TANN	147.59	PKPbc	00:21:35.909	-0.5	42.6		2.70			TAS						m_e
TNS	149.45	PKPbc	00:21:41.052	-0.1	42.6		2.70			TAS						m_e
WET	148.28	PKPbc	00:21:37.882	-0.3	42.6		2.70			TAS						m_e
WLF	150.79	PKPbc	00:21:45.322		42.6		2.70			TAS						m_e

Event 1219002 Unimak Island, Alaska, United States, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/19	04:52:48.97		0.80	53.6600	-164.2500				33.0				21 199	72.68	78.95	m i ke	BGR
	1219008																

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1219008
Ms	4.4		BGR	1219008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	75.92		P	05:04:37.579	0.1	357.5		5.69		TAS		17.5	0.75	m_e mb	5.3
BFO	78.19		P	05:04:50.082	-0.4	357.5		5.69		TAS		5.5	0.73	m_e mb	4.8
BRG	75.83		P	05:04:36.746	-0.2	357.5		5.69		TAS		13.1	0.97	m_e mb	5.0
BSEG	72.68		P	05:04:18.618	-0.4	357.5		5.69		TAS		19.0	1.02	m_e mb	5.2
BUG	75.03		P	05:04:32.058	-0.4	357.5		5.69		TAS		30.3	1.02	m_e mb	5.3
CLL	75.38		P	05:04:34.141	-0.2	357.5		5.69		TAS		18.7	0.99	m_e mb	5.1
CLZ	74.77		P	05:04:31.224	0.2	357.5		5.69		TAS		14.7	0.82	m_e mb	5.1
FUR	78.48		P	05:04:51.385	-1.0	357.5		5.69		TAS		12.1	0.84	m_e mb	5.1
GEC2	77.86		P	05:04:48.519	0.1	357.5		5.69		TAS		8.3	0.76	m_e mb	4.9
GRA1	76.95		P	05:04:43.935	0.6	357.5		5.69		TAS		17.3	0.82	m_e mb	5.2
GRA1	76.95		L	05:40:24.726						T__		158.2	20.70	a_e Ms	4.3
GTTG	75.05		P	05:04:32.787	0.2	357.5		5.69		TAS		28.1	0.82	m_e mb	5.3
IBBN	74.19		P	05:04:27.890	0.2	357.5		5.69		TAS		70.0	1.24	m_e mb	5.5
MOX	76.01		P	05:04:37.996	-0.0	357.5		5.69		TAS		15.4	0.66	m_e mb	5.3
MOX	76.01		L	05:47:45.213						T__		173.2	18.30	a_e Ms	4.4
NRDL	74.11		P	05:04:27.057	-0.2	357.5		5.69		TAS		19.0	0.97	m_e mb	5.1
RJOB	78.95		P	05:04:54.874	0.2	357.5		5.69		TAS		19.2	0.76	m_e mb	5.2
ROTZ	76.91		P	05:04:43.414	0.3	357.5		5.69		TAS		10.0	0.85	m_e mb	5.0
STU	77.79		P	05:04:47.998	-0.2	357.5		5.69		TAS		14.6	0.85	m_e mb	5.1
TANN	76.26		P	05:04:39.663	0.2	357.5		5.69		TAS		4.8	0.74	m_e mb	4.7
TNS	76.31		P	05:04:39.871	0.1	357.5		5.69		TAS		14.5	0.93	m_e mb	5.1
WET	77.54		P	05:04:46.956	0.2	357.5		5.69		TAS		4.7	0.84	m_e mb	4.7

WLF 76.73 P 05:04:42.476 0.4 357.5 5.69 TAS 15.8 0.95 m\_e mb 5.1

## Event 1219003 Northwestern Kashmir

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/19	07:22:19.35		0.80	35.2370	74.3870				33.0				199	47.41	47.41	m i ke	BGR
OrigID 1219009																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.6		BGR	1219009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	47.41		P	07:30:49.795		91.7		6.99		TAS		3.9	0.71	m_e mb	4.6

## Event 1219005 Ethiopia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/19	12:14:35.04		0.92	8.6400	37.8800				33.0				21	153	44.39	50.31	m i ke	BGR
OrigID 1219011																		

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1219011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	48.94		P	12:23:18.912	0.6	142.1		7.77		TAS		6.8	0.78	m_e mb	4.7
BFO	46.75		P	12:23:01.306	0.2	142.1		7.77		TAS		7.8	1.02	m_e mb	4.8
BRG	46.52		P	12:22:59.335	0.1	142.1		7.77		TAS		4.6	0.87	m_e mb	4.6
BSEG	50.31		P	12:23:29.053	0.4	142.1		7.77		TAS		11.3	0.82	m_e mb	4.8
BUG	49.53		P	12:23:22.742	-0.3	142.1		7.77		TAS		2.7	0.78	m_e mb	4.2
CLL	47.21		P	12:23:04.687	-0.0	142.1		7.77		TAS		10.6	1.06	m_e mb	4.9
CLZ	48.61		P	12:23:15.391	-0.4	142.1		7.77		TAS		5.4	0.84	m_e mb	4.6
FUR	45.35		P	12:22:50.293	-0.2	142.1		7.77		TAS		15.3	0.84	m_e mb	5.0
GEC2	44.93		P	12:22:47.363	0.2	142.1		7.77		TAS		16.5	0.90	m_e mb	5.0
GRA1	46.58		P	12:22:59.898	-0.2	142.1		7.77		TAS		16.1	0.97	m_e mb	5.1
GTTG	48.53		P	12:23:15.250	0.0	142.1		7.77		TAS		9.4	0.86	m_e mb	4.8
IBBN	49.99		P	12:23:26.658	0.1	142.1		7.77		TAS		9.6	0.80	m_e mb	4.8
MOX	47.18		P	12:23:04.687	-0.0	142.1		7.77		TAS		12.1	0.98	m_e mb	5.0
NRDL	49.23		P	12:23:20.320	-0.2	142.1		7.77		TAS		7.7	0.89	m_e mb	4.7
RJOB	44.39		P	12:22:43.138	0.1	142.1		7.77		TAS		9.6	0.97	m_e mb	4.5
ROTZ	46.25		P	12:22:57.504	0.0	142.1		7.77		TAS		14.9	1.18	m_e mb	4.9
STU	46.70		P	12:23:01.300	0.4	142.1		7.77		TAS				m_e	
TANN	46.68		P	12:23:00.884	0.1	142.1		7.77		TAS		26.7	1.34	m_e mb	5.2
TNS	48.12		P	12:23:12.011	-0.0	142.1		7.77		TAS		8.9	0.96	m_e mb	4.9

WET	45.49	P	12:22:51.307	-0.3	142.1		7.77	TAS	9.0	0.92	m_e	mb	4.7
WLF	48.70	P	12:23:15.881	-0.4	142.1		7.77	TAS	6.9	0.97	m_e	mb	4.7

Event 1219006 Northwest of Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/19	23:45:44.34		0.92	48.6800	150.7200				33.0			18	153	72.43	78.04	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1219012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	76.35		P	23:57:30.361	-0.2	26.5		5.74		TAS		10.7	1.00	m_e	mb	4.9
BFO	78.04		P	23:57:39.311	-0.9	26.5		5.74		TAS		6.5	0.92	m_e	mb	4.8
BRG	74.14		P	23:57:17.648	-0.2	26.5		5.74		TAS		3.0	0.85	m_e	mb	4.4
BSEG	72.43		P	23:57:08.190	0.1	26.5		5.74		TAS		6.5	0.93	m_e	mb	4.7
BUG	75.48		P	23:57:25.073	-0.4	26.5		5.74		TAS		8.8	0.80	m_e	mb	4.8
CLL	74.03		P	23:57:16.733	-0.6	26.5		5.74		TAS		10.8	0.79	m_e	mb	4.9
CLZ	74.29		P	23:57:19.174	0.4	26.5		5.74		TAS		8.8	0.82	m_e	mb	4.8
FUR	77.34		P	23:57:36.056	-0.2	26.5		5.74		TAS		8.2	0.92	m_e	mb	4.9
GRA1	75.99		P	23:57:28.734	0.2	26.5		5.74		TAS		14.6	0.78	m_e	mb	5.2
IBBN	74.56		P	23:57:20.191	-0.1	26.5		5.74		TAS		11.4	0.81	m_e	mb	4.9
MOX	75.02		P	23:57:23.140	0.2	26.5		5.74		TAS		5.5	0.83	m_e	mb	4.6
NRDL	73.78		P	23:57:15.716	-0.1	26.5		5.74		TAS		3.8	0.83	m_e	mb	4.5
RJOB	77.27		P	23:57:36.158	0.4	26.5		5.74		TAS		4.5	0.84	m_e	mb	4.6
STU	77.39		P	23:57:36.611	0.0	26.5		5.74		TAS		9.7	0.69	m_e	mb	5.0
TANN	74.98		P	23:57:23.006	0.3	26.5		5.74		TAS		1.9	0.76	m_e	mb	4.2
TNS	76.28		P	23:57:30.056	-0.1	26.5		5.74		TAS		8.5	0.79	m_e	mb	4.9
WET	75.99		P	23:57:28.734	0.2	26.5		5.74		TAS		5.6	0.86	m_e	mb	4.7
WLF	77.39		P	23:57:37.537	1.0	26.5		5.74		TAS		5.5	0.83	m_e	mb	4.7

Event 1220002 Off coast of Guerrero, Mexico

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/20	15:16:04.37		0.59	13.9460	-100.2570				33.0				293	92.80	92.80	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1220008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	92.80		P	15:28:50.832		291.5		4.31		TAS		10.5	1.11	m_e	mb	5.2

Event 1220003 Eastcentral Pacific Ocean

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/20	17:20:30.76		0.59	6.5500	-95.8000				79.1	1.2		21	293	92.73	97.70	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1220009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	93.10		P	17:33:46.828	0.2	287.4		4.51		TAS		41.9	1.55	m_e mb	5.6
BFO	94.44		P	17:33:52.716	-0.0	287.4		4.51		TAS		2.3	0.75	m_e mb	4.6
BRG	97.18		P	17:34:05.265	0.2	287.4		4.51		TAS		4.5	1.11	m_e mb	5.0
BRG	97.18		pP	17:34:26.507	0.3					T__				m_e	
BSEG	94.11		P	17:33:50.858	-0.4	287.4		4.51		TAS		3.7	0.81	m_e mb	4.8
BUG	92.99		P	17:33:46.588	0.4	287.4		4.51		TAS		6.5	0.84	m_e mb	5.1
CLL	96.48		P	17:34:01.271	-0.6	287.4		4.51		TAS		4.6	0.89	m_e mb	5.0
CLL	96.48		pP	17:34:23.063	0.3					T__				m_e	
CLZ	94.75		P	17:33:53.763	-0.3	287.4		4.51		TAS		3.9	0.88	m_e mb	4.8
FUR	96.38		P	17:34:01.691	0.3	287.4		4.51		TAS				m_e	
GEC2	97.70		P	17:34:07.461	0.0	287.4		4.51		TAS		2.6	1.04	m_e mb	4.9
GRA1	95.90		P	17:33:59.081	-0.2	287.4		4.51		TAS		6.0	0.85	m_e mb	5.1
GTTG	94.59		P	17:33:53.127	-0.3	287.4		4.51		TAS		4.1	0.80	m_e mb	4.9
IBBN	93.07		P	17:33:46.863	0.3	287.4		4.51		TAS		3.6	0.71	m_e mb	4.9
MOX	95.85		P	17:33:58.769	-0.3	287.4		4.51		TAS		3.0	0.87	m_e mb	4.8
NRDL	94.41		P	17:33:53.493	0.9	287.4		4.51		TAS		5.0	1.11	m_e mb	4.8
RJOB	97.48		P	17:34:06.369	-0.1	287.4		4.51		TAS		4.9	0.98	m_e mb	5.1
ROTZ	96.48		P	17:34:01.733	-0.2	287.4		4.51		TAS		5.4	1.28	m_e mb	4.9
STU	94.88		P	17:33:54.399	-0.3	287.4		4.51		TAS		8.0	0.68	m_e mb	5.3
TANN	96.44		P	17:34:01.811	0.1	287.4		4.51		TAS		6.8	1.04	m_e mb	5.1
TNS	94.03		P	17:33:50.635	-0.2	287.4		4.51		TAS		2.9	0.80	m_e mb	4.7
WET	97.09		P	17:34:05.338	0.7	287.4		4.51		TAS		12.3	1.08	m_e mb	5.5
WLF	92.73		P	17:33:45.002	-0.3	287.4		4.51		TAS		13.9	1.25	m_e mb	5.2

Event 1220004 Southern Iran

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/20	18:42:16.50		0.59	28.8400	56.1280				10.0			15	293	37.99	42.65	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1220010



MBB	5.9	BGR	1220010
Ms	6.3	BGR	1220010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	42.58		P	18:50:12.241		104.6		8.32		TAS		23.1	1.52	m_e	MBB 5.9
BSEG	41.53		P	18:50:02.442	-0.6	104.6		8.32		TAS		16.2	1.01	m_e	MBB 6.1
BUG	42.65		P	18:50:12.171		104.6		8.32		TAS		22.9	0.93	m_e	MBB 5.9
CLL	39.15		P	18:49:43.535	-0.1	104.6		8.32		TAS		53.7	0.96	m_e	MBB 5.9
CLZ	40.88		P	18:49:57.944	0.7	104.6		8.32		TAS		84.5	1.82	m_e	MBB 6.1
FUR	39.39		P	18:49:45.209	-0.2	104.6		8.32		TAS		51.9	0.91	m_e	MBB 5.9
GEC2	37.99		P	18:49:34.036	-0.1	104.6		8.32		TAS		94.5	1.03	m_e	MBB 6.0
GRA1	39.78		P	18:49:49.133	0.2	104.6		8.32		TAS		75.3	1.31	m_e	mb 5.2
GRA1	39.78		L	19:11:19.823						T__		49307.0	19.20	a_e	Ms 6.4
GTTG	41.04		P	18:49:59.413	0.2	104.6		8.32		TAS		33.2	1.42	m_e	MBB 6.0
MOX	39.79		P	18:49:48.766	0.1	104.6		8.32		TAS		17.0	1.26	m_e	MBB 5.7
MOX	39.79		L	19:10:37.818						T__		37793.1	18.30	a_e	Ms 6.3
RJOB	38.30		P	18:49:36.651	0.3	104.6		8.32		TAS		161.2	0.97	m_e	MBB 6.1
ROTZ	39.19		P	18:49:43.983	-0.3	104.6		8.32		TAS		31.8	1.24	m_e	MBB 5.7
STU	40.87		P	18:49:58.587	0.2	104.6		8.32		TAS		37.4	1.15	m_e	MBB 5.7
TANN	39.21		P	18:49:44.021	-0.1	104.6		8.32		TAS		26.4	1.76	m_e	MBB 5.6
WET	38.60		P	18:49:38.854	0.1	104.6		8.32		TAS		36.5	1.35	m_e	MBB 5.8

Event 1220005 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/20	22:13:06.83		0.59	-17.6000	-173.9500				33.0			14	293	145.03	149.44	m i ke	BGR
OrigID 1220011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	146.21		PKPbc	22:32:46.985	0.4	6.4		3.00		TAS				m_e	
CLL	145.92		PKPbc	22:32:45.336	-0.2	6.4		3.00		TAS				m_e	
CLZ	145.66		PKPbc	22:32:46.210		6.4		3.00		TAS				m_e	
GEC2	148.22		PKPbc	22:32:51.739	-1.0	6.4		3.00		TAS				m_e	
GRA1	147.72		PKPbc	22:32:52.101	-0.8	6.4		3.00		TAS				m_e	
IBBN	145.34		PKPbc	22:32:43.438		6.4		3.00		TAS				m_e	
NRDL	145.03		PKPbc	22:32:42.256		6.4		3.00		TAS				m_e	
RJOB	149.44		PKPbc	22:32:55.611	-0.6	6.4		3.00		TAS				m_e	
ROTZ	147.53		PKPbc	22:32:51.228	0.9	6.4		3.00		TAS				m_e	
STU	148.81		PKPbc	22:32:55.089		6.4		3.00		TAS				m_e	
TANN	146.86		PKPbc	22:32:48.597	0.2	6.4		3.00		TAS				m_e	
TNS	147.40		PKPbc	22:32:49.401		6.4		3.00		TAS				m_e	
WET	148.05		PKPbc	22:32:52.116	0.1	6.4		3.00		TAS				m_e	
WLF	148.01		PKPbc	22:32:52.069		6.4		3.00		TAS				m_e	

Event 1221001 Southern Greece

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	08:54:52.93		0.59	37.8900	24.1460				5.0				293	15.02	15.02	m i ke	BGR
OrigID 1221007																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.4		BGR	1221007
Ms	3.0		BGR	1221007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	15.02		P	08:58:31.273		139.7		13.55		TAS				m_e	
GRA1	15.02		L	09:01:24.890						T__		119.2	22.00	a_e Ms	3.0

Event 1221003 Off west coast of northern Sumatera, Indonesia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/21	14:07:56.03		0.49	3.9500	94.5900				33.0				21	157	81.04	86.00	m i ke	BGR
OrigID 1221009																		

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1221009
Ms	5.4		BGR	1221009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	85.39		P	14:20:33.539	-0.1	92.7		5.13		TAS		9.5	0.79	m_e mb	5.1
BFO	84.58		P	14:20:28.661	-0.7	92.7		5.13		TAS		7.2	0.77	a_e mb	5.0
BRG	81.04		P	14:20:11.311	0.0	92.7		5.13		TAS		4.9	0.80	m_e mb	4.6
BSEG	83.45		P	14:20:23.528	-0.1	92.7		5.13		TAS		9.9	0.76	m_e mb	5.1
BUG	85.26		P	14:20:32.913	-0.0	92.7		5.13		TAS		15.0	0.89	m_e mb	5.2
CLL	81.67		P	14:20:14.111	-0.4	92.7		5.13		TAS		4.8	0.95	a_e mb	4.6
CLZ	83.34		P	14:20:22.903	-0.1	92.7		5.13		TAS		8.7	0.80	m_e mb	5.0
FUR	82.61		P	14:20:18.811	-0.5	92.7		5.13		TAS		9.8	0.71	a_e mb	5.1
GEC2	81.04		P	14:20:11.511	0.3	92.7		5.13		TAS		11.3	0.84	a_e mb	4.9
GRA1	82.71		P	14:20:20.087	0.3	92.7		5.13		TAS		14.1	0.85	m_e mb	5.2
GRA1	82.71		L	15:04:59.961						T__		1770.5	20.20	a_e Ms	5.4
GTTG	83.58		P	14:20:24.780	0.5	92.7		5.13		TAS		6.9	0.75	m_e mb	5.0
IBBN	84.96		P	14:20:31.111	-0.3	92.7		5.13		TAS		14.8	0.79	a_e mb	5.3
MOX	82.50		P	14:20:18.661	-0.1	92.7		5.13		TAS		4.0	0.84	a_e mb	4.7
MOX	82.50		L	15:07:30.467						T__		1849.9	21.20	a_e Ms	5.4
NRDL	83.52		P	14:20:24.161	0.2	92.7		5.13		TAS		6.4	0.94	a_e mb	4.8
RJOB	81.57		P	14:20:12.892	-1.0	92.7		5.13		TAS		8.7	0.90	m_e mb	4.9
ROTZ	82.08		P	14:20:16.646	0.1	92.7		5.13		TAS		8.9	0.82	m_e mb	4.9

STU	84.01	P	14:20:28.809	2.7	92.7	5.13	TAS	14.8	0.64	m_e	mb	5.4
TANN	81.95	P	14:20:15.861	-0.1	92.7	5.13	TAS	3.2	0.92	a_e	mb	4.4
TNS	84.52	P	14:20:28.846	-0.2	92.7	5.13	TAS	12.5	0.78	m_e	mb	5.2
WET	81.60	P	14:20:14.211	0.1	92.7	5.13	TAS	6.8	0.82	a_e	mb	4.8
WLF	86.00	P	14:20:36.042	-0.7	92.7	5.13	TAS	3.8	0.84	m_e	mb	4.6

Event 1221004 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	17:19:40.80		0.49	26.8920	143.7260				14.0			21	157	90.00	95.12	m i ke	NEIC
	1221043																

Magnitude	Err	Nsta	Author	OrigID
mb	5.9		BGR	1221010
MBB	7.6		BGR	1221010
Ms	7.6		BGR	1221010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	93.90	P		17:32:57.975	0.3	41.4		4.76		TAS		30.9	1.07	m_e	MBB 7.5
BFO	95.12	P		17:33:02.944	-0.7	41.4		4.76		TAS		71.5	0.88	m_e	MBB 7.6
BRG	90.80	P		17:32:43.141	-0.1	41.4		4.76		TAS		50.8	0.91	m_e	MBB 7.6
BSEG	90.00	P		17:32:39.448	-0.1	41.4		4.76		TAS		174.2	0.81	m_e	MBB 7.7
BUG	93.11	P		17:32:54.194	0.2	41.4		4.76		TAS		61.0	1.07	m_e	MBB 7.6
CLL	90.89	P		17:32:43.261	-0.3	41.4		4.76		TAS		86.5	1.05	m_e	MBB 7.6
CLZ	91.58	P		17:32:46.558	0.1	41.4		4.76		TAS		115.6	0.92	m_e	MBB 7.6
FUR	93.98	P		17:32:58.134	0.1	41.4		4.76		TAS		133.7	0.89	m_e	MBB 7.7
GEC2	92.39	P		17:32:49.911	-0.3	41.4		4.76		TAS		38.2	0.88	m_e	MBB 7.5
GRA1	92.85	P		17:32:53.098	0.4	41.4		4.76		TAS		99.3	0.93	m_e	mb 6.2
GRA1	92.85	L		18:16:27.082						T__		207288.0	19.60	a_e	Ms 7.6
GTTG	91.97	P		17:32:48.538	-0.3	41.4		4.76		TAS		80.5	0.91	m_e	MBB 7.6
IBBN	92.24	P		17:32:49.883	0.1	41.4		4.76		TAS		155.9	1.00	m_e	MBB 7.7
MOX	91.97	P		17:32:48.326	-0.2	41.4		4.76		TAS		36.1	0.89	m_e	MBB 7.6
MOX	91.97	L		18:15:52.214						T__		208568.0	19.00	a_e	Ms 7.6
NRDL	91.19	P		17:32:45.180	0.1	41.4		4.76		TAS		40.1	0.88	m_e	MBB 7.6
RJOB	93.61	P		17:32:56.530	0.2	41.4		4.76		TAS		56.2	0.87	m_e	MBB 7.6
ROTZ	92.37	P		17:32:50.590	0.7	41.4		4.76		TAS		72.1	1.04	m_e	MBB 7.6
STU	94.42	P		17:32:59.921	-0.2	41.4		4.76		TAS		84.6	0.88	m_e	MBB 7.5
TANN	91.78	P		17:32:47.630	-0.3	41.4		4.76		TAS		29.3	0.97	m_e	MBB 7.5
TNS	93.60	P		17:32:56.393	0.1	41.4		4.76		TAS		32.2	0.97	m_e	MBB 7.5
WET	92.54	P		17:32:51.405	0.2	41.4		4.76		TAS		29.1	1.04	m_e	MBB 7.6
WLF	94.96	P		17:33:02.670	-0.1	41.4		4.76		TAS		60.3	1.05	m_e	MBB 7.7

Event 1221005 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	17:41:44.84		0.49	29.4100	141.4600				33.0			19	157	86.87	91.96	m i ke	BGR
OrigID 1221011																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1221011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	90.76		P	17:54:43.157	0.2	41.7		4.67		TAS		3.9	0.79	a_e	mb	4.8
BFO	91.96		P	17:54:48.357		41.7		4.67		TAS		8.1	0.85	a_e	mb	5.1
BRG	87.63		P	17:54:28.457	-0.0	41.7		4.67		TAS		5.9	0.87	a_e	mb	4.9
BSEG	86.87		P	17:54:24.907	0.0	41.7		4.67		TAS		24.5	0.92	m_e	mb	5.3
CLL	87.73		P	17:54:28.607	-0.3	41.7		4.67		TAS		8.9	0.84	a_e	mb	5.1
CLZ	88.43		P	17:54:32.457	0.3	41.7		4.67		TAS		12.1	0.88	a_e	mb	5.2
FUR	90.80		P	17:54:43.507	-0.1	41.7		4.67		TAS		15.4	0.88	a_e	mb	5.3
GEC2	89.21		P	17:54:35.757	-0.1	41.7		4.67		TAS		8.2	0.99	a_e	mb	4.9
GRA1	89.69		P	17:54:38.537	0.5	41.7		4.67		TAS		12.0	0.95	m_e	mb	5.1
GTTG	88.82		P	17:54:34.007	0.0	41.7		4.67		TAS		8.2	0.73	a_e	mb	5.1
IBBN	89.11		P	17:54:35.257	-0.1	41.7		4.67		TAS		14.4	0.86	a_e	mb	5.2
MOX	88.81		P	17:54:33.905	0.0	41.7		4.67		TAS		5.6	0.97	m_e	mb	4.8
NRDL	88.05		P	17:54:30.307	-0.1	41.7		4.67		TAS		4.7	0.91	a_e	mb	4.8
RJOB	90.43		P	17:54:41.757	-0.0	41.7		4.67		TAS		8.2	0.87	a_e	mb	5.0
ROTZ	89.20		P	17:54:35.633	-0.2	41.7		4.67		TAS		10.5	1.06	m_e	mb	5.0
STU	91.26		P	17:54:45.307	-0.3	41.7		4.67		TAS		11.8	0.81	a_e	mb	5.3
TANN	88.61		P	17:54:33.107	0.1	41.7		4.67		TAS		3.3	0.94	a_e	mb	4.5
TNS	90.45		P	17:54:41.607	0.1	41.7		4.67		TAS		4.1	0.84	a_e	mb	4.7
WET	89.36		P	17:54:36.285	-0.3	41.7		4.67		TAS		4.1	1.06	m_e	mb	4.6

Event 1221006 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	20:18:59.80		0.49	29.4800	141.6800				33.0			17	157	86.90	91.99	m i ke	BGR
OrigID 1221012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.8		BGR	1221012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	91.99		P	20:32:05.107		41.4		4.66		TAS		4.1	0.84	a_e	mb	4.8
BRG	87.67		P	20:31:45.371	-0.0	41.4		4.66		TAS		4.5	0.77	m_e	mb	4.9
BSEG	86.90		P	20:31:41.707	-0.0	41.4		4.66		TAS		13.7	0.78	m_e	mb	5.1
CLL	87.76		P	20:31:45.335	-0.5	41.4		4.66		TAS		6.3	0.79	m_e	mb	5.0
CLZ	88.46		P	20:31:49.207	-0.1	41.4		4.66		TAS		7.3	0.85	a_e	mb	5.0
FUR	90.84		P	20:32:00.257		41.4		4.66		TAS		10.1	0.78	a_e	mb	5.2
GEC2	89.25		P	20:31:52.557	0.2	41.4		4.66		TAS		3.7	0.87	a_e	mb	4.6

GRA1	89.72	P	20:31:55.257	0.1	41.4	4.66	TAS	4.3	0.78	a_e mb	4.7
GTTG	88.85	P	20:31:51.045	-0.1	41.4	4.66	TAS	5.2	0.77	m_e mb	4.8
IBBN	89.14	P	20:31:52.057	0.4	41.4	4.66	TAS	10.7	0.88	a_e mb	5.1
MOX	88.84	P	20:31:50.707	0.2	41.4	4.66	TAS	2.8	0.84	a_e mb	4.5
RJOB	90.47	P	20:31:58.607	0.0	41.4	4.66	TAS	8.2	0.91	a_e mb	5.0
ROTZ	89.24	P	20:31:53.157	-0.2	41.4	4.66	TAS	3.5	0.92	a_e mb	4.6
STU	91.29	P	20:32:02.057		41.4	4.66	TAS	7.0	0.82	a_e mb	5.0
TANN	88.65	P	20:31:49.857	-0.1	41.4	4.66	TAS	2.0	0.77	a_e mb	4.4
TNS	90.48	P	20:31:58.899	-0.2	41.4	4.66	TAS	1.2	0.66	m_e mb	4.3
WET	89.40	P	20:31:53.699	0.3	41.4	4.66	TAS	1.6	0.88	m_e mb	4.3

Event 1221007 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	21:34:01.59		0.49	26.5220	143.6620				33.0				157	93.15	93.15	m i ke	BGR
1221013																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1221013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	93.15		P	21:35:48.641		48.5		4.28		TAS		18.3	1.27	m_e mb	5.4

Event 1221009 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	22:20:02.59		0.49	26.7040	143.5720				33.0				157	92.95	92.95	m i ke	BGR
1221015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1221015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.95		P	22:33:10.834		44.7		3.96		TAS		8.1	0.94	m_e mb	5.1

Event 1221008 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/21	22:20:02.59		0.49	26.7040	143.5720				33.0				157	92.95	92.95	m i ke	BGR
1221014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1221014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	92.95		P	22:21:12.611		45.8		3.93		TAS		6.2	0.85	m_e	mb	5.1

Event 1222001 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/22	01:16:46.35		0.74	26.6240	143.8260				33.0				55	93.13	93.13	m i ke	BGR
OrigID 1222007																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1222007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	93.13		P	01:29:56.862		47.2		4.35		TAS		5.3	0.90	m_e	mb	5.0

Event 1222002 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/22	01:36:46.45		0.74	26.6410	143.3630				33.0				55	90.09	95.19	m i ke	BGR
OrigID 1222008																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1222008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	95.19		P	01:44:40.139						T__		4.7	0.98	m_e	mb	4.9
BRG	90.86		P	01:44:20.402						T__		3.2	0.87	m_e	mb	4.7
BSEG	90.09		P	01:44:16.807						T__		12.0	0.92	m_e	mb	5.1
BUG	93.20		P	01:44:31.059						T__		18.7	1.42	m_e	mb	5.3
CLL	90.95		P	01:44:20.591						T__		7.2	1.03	m_e	mb	4.9
CLZ	91.65		P	01:44:24.248						T__		10.1	1.04	m_e	mb	5.1
FUR	94.04		P	01:44:35.347						T__		8.0	0.81	m_e	mb	5.1
GEC2	92.44		P	01:44:27.717						T__		3.3	0.99	m_e	mb	4.6
GRA1	92.92		P	01:44:30.428						T__		25.0	1.34	m_e	mb	5.5
IBBN	92.33		P	01:44:27.149						T__		11.3	0.94	m_e	mb	5.2
MOX	92.04		P	01:44:25.762						T__		6.0	1.15	m_e	mb	4.8
NRDL	91.27		P	01:44:22.104						T__		3.1	0.84	m_e	mb	4.7
RJOB	93.66		P	01:44:33.644						T__		3.7	0.94	m_e	mb	4.7
ROTZ	92.43		P	01:44:28.347						T__		10.2	1.20	m_e	mb	5.0

STU	94.48	P	01:44:36.986	T__	6.8	1.01	m_e	mb	4.9
TANN	91.84	P	01:44:25.005	T__	1.2	0.84	m_e	mb	4.2
WET	92.59	P	01:44:28.726	T__	4.4	1.23	m_e	mb	4.7

Event 1222005 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/22	05:10:11.48		0.56	-19.4000	-177.4800				33.0			15	241	145.01	150.76	m i ke	BGR
OrigID 1222011																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	150.76		PKPbc	05:30:05.083		14.7		2.85		TAS				a_e	
BRG	147.32		PKPbc	05:29:56.133	0.2	14.7		2.85		TAS				a_e	
BSEG	145.01		PKPbc	05:29:48.633		14.7		2.85		TAS				a_e	
CLL	147.10		PKPbc	05:29:55.283	-0.4	14.7		2.85		TAS				a_e	
CLZ	147.04		PKPbc	05:29:55.303	-0.1	14.7		2.85		TAS				m_e	
GEC2	149.27		PKPbc	05:30:01.383	0.1	14.7		2.85		TAS				a_e	
GTTG	147.39		PKPbc	05:29:56.333	0.2	14.7		2.85		TAS				a_e	
IBBN	146.90		PKPbc	05:29:54.883		14.7		2.85		TAS				a_e	
MOX	148.00		PKPbc	05:29:58.424	0.9	14.7		2.85		TAS				m_e	
NRDL	146.44		PKPbc	05:29:53.533	0.2	14.7		2.85		TAS				a_e	
RJOB	150.52		PKPbc	05:30:05.183	-0.8	14.7		2.85		TAS				a_e	
ROTZ	148.73		PKPbc	05:30:00.233	0.2	14.7		2.85		TAS				a_e	
TANN	148.06		PKPbc	05:29:58.233	0.1	14.7		2.85		TAS				m_e	
TNS	148.89		PKPbc	05:30:00.683	-0.7	14.7		2.85		TAS				m_e	
WLF	149.66		PKPbc	05:30:03.033		14.7		2.85		TAS				a_e	

Event 1222006 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/22	06:10:40.54		0.56	26.8420	143.5290				33.0				241	92.81	92.81	m i ke	BGR
OrigID 1222012																	

Magnitude	Err	Nsta	Author	OrigID
mb	4.9		BGR	1222012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	92.81		P	06:23:50.401		50.3		4.65		TAS		3.9	0.78	m_e	mb	4.9





OrigID  
 2010/12/22 21:49:44.76 0.27 26.7820 143.6590 33.0 231 90.08 95.19 m i ke BGR  
 1222017

Magnitude Err Nsta Author OrigID  
 mb 5.7 BGR 1222017  
 MBB 6.5 BGR 1222017  
 Ms 6.1 BGR 1222017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	93.97		P	22:02:55.937						T__		47.0	1.51	m_e	MBB 6.3
BFO	95.19		P	22:03:01.319						T__		35.0	0.92	m_e	MBB 6.6
BRG	90.87		P	22:02:41.460						T__		35.6	0.98	m_e	MBB 6.4
BSEG	90.08		P	22:02:37.898						T__		126.9	0.89	m_e	MBB 6.6
BUG	93.19		P	22:02:51.996						T__		27.1	1.07	m_e	MBB 6.4
CLL	90.96		P	22:02:41.612						T__		52.1	0.97	m_e	MBB 6.5
CLZ	91.65		P	22:02:45.326						T__		50.1	0.91	m_e	MBB 6.6
FUR	94.05		P	22:02:56.468						T__		85.4	0.92	m_e	MBB 6.7
GEC2	92.45		P	22:02:48.888						T__		23.1	0.94	m_e	MBB 6.3
GRA1	92.92		P	22:02:51.541						T__		60.5	0.98	m_e	MBB 6.8
GRA1	92.92		L	22:43:13.834						T__		7106.2	21.30	a_e	Ms 6.1
GTTG	92.04		P	22:02:46.993						T__		57.8	1.01	m_e	MBB 6.5
IBBN	92.32		P	22:02:48.282						T__		84.3	0.99	m_e	MBB 6.7
MOX	92.04		P	22:02:46.993						T__		26.6	1.05	m_e	MBB 6.4
MOX	92.04		L	22:48:14.041						T__		8676.8	20.60	a_e	Ms 6.2
NRDL	91.26		P	22:02:43.279						T__		28.8	0.98	m_e	MBB 6.4
RJOB	93.68		P	22:02:54.800						T__		34.6	0.93	m_e	MBB 6.5
ROTZ	92.44		P	22:02:49.495						T__		40.1	1.16	m_e	MBB 6.6
STU	94.49		P	22:02:58.211						T__		52.6	0.95	m_e	MBB 6.6
TANN	91.85		P	22:02:46.084						T__		19.6	1.01	m_e	MBB 6.3
TNS	93.67		P	22:02:54.573						T__		20.6	0.95	m_e	MBB 6.2
WET	92.60		P	22:02:49.798						T__		22.1	1.22	m_e	MBB 6.4
WLF	95.03		P	22:03:01.167						T__		36.7	1.36	m_e	MBB 6.6

Event 1223003 Off west coast of northern Sumatera, Indonesia

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/23 00:01:38.50 3.2140 95.3500 49.1 0.5 21 82.09 87.05 m i ke BGR  
 1223009

Magnitude Err Nsta Author OrigID  
 mb 5.3 BGR 1223009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	86.44		P	00:14:15.650	0.0	92.5		5.10		TAS		17.7	0.93	m_e	mb 5.2
BFO	85.64		P	00:14:11.115	-0.4	92.5		5.10		TAS		17.3	0.66	m_e	mb 5.3

BFO	85.64	pP	00:14:25.457						T__						m_e	
BRG	82.09	P	00:13:53.275	-0.1	92.5	5.10			TAS	16.1	0.95	m_e	mb	5.1		
BSEG	84.49	P	00:14:05.565	-0.0	92.5	5.10			TAS	29.7	0.84	m_e	mb	5.5		
BSEG	84.49	pP	00:14:19.688						T__						m_e	
BUG	86.31	P	00:14:14.876	-0.1	92.5	5.10			TAS	27.4	0.71	m_e	mb	5.5		
BUG	86.31	pP	00:14:29.172						T__						m_e	
CLL	82.71	P	00:13:55.999	-0.6	92.5	5.10			TAS	10.9	1.07	m_e	mb	5.0		
CLZ	84.38	P	00:14:05.100	0.0	92.5	5.10			TAS	18.6	0.74	m_e	mb	5.4		
FUR	83.66	P	00:14:01.113	-0.3	92.5	5.10			TAS	21.4	0.81	m_e	mb	5.4		
GEC2	82.09	P	00:13:53.697	0.3	92.5	5.10			TAS	30.5	1.16	m_e	mb	5.3		
GRA1	83.76	P	00:14:02.345	0.4	92.5	5.10			TAS	24.0	0.87	m_e	mb	5.4		
GRA1	83.76	pP	00:14:16.630						T__						m_e	
GTTG	84.63	P	00:14:06.184	-0.1	92.5	5.10			TAS	9.4	0.87	m_e	mb	5.0		
IBBN	86.00	P	00:14:13.358	0.0	92.5	5.10			TAS	32.4	0.65	m_e	mb	5.6		
MOX	83.55	P	00:14:00.687	-0.2	92.5	5.10			TAS	9.5	0.94	m_e	mb	5.0		
NRDL	84.57	P	00:14:06.132	0.1	92.5	5.10			TAS	17.8	0.98	m_e	mb	5.3		
RJOB	82.62	P	00:13:55.837	-0.2	92.5	5.10			TAS	11.3	0.78	m_e	mb	5.2		
ROTZ	83.13	P	00:13:59.305	0.6	92.5	5.10			TAS	17.6	0.83	m_e	mb	5.3		
STU	85.06	P	00:14:08.455	-0.1	92.5	5.10			TAS	15.7	0.68	m_e	mb	5.4		
TANN	83.00	P	00:13:57.974	-0.1	92.5	5.10			TAS	6.0	0.97	m_e	mb	4.8		
TNS	85.56	P	00:14:11.314	0.2	92.5	5.10			TAS	12.7	0.81	m_e	mb	5.1		
WET	82.65	P	00:13:56.563	0.3	92.5	5.10			TAS	13.6	0.74	m_e	mb	5.3		
WLF	87.05	P	00:14:18.906	0.2	92.5	5.10			TAS	27.7	1.49	m_e	mb	5.2		

Event 1223006 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/23	11:55:29.50		0.78	-18.1900	-173.1930				33.0				19	152	145.67	150.13	m i ke BGR
	1223012																

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1223012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.91		PKPbc	12:15:15.676		8.0		2.75		TAS					m_e
BRG	146.90		PKPbc	12:15:07.614	0.1	8.0		2.75		TAS					m_e
BUG	146.82		PKPbc	12:15:07.179	-0.1	8.0		2.75		TAS					m_e
CLL	146.59		PKPbc	12:15:06.564	0.1	8.0		2.75		TAS					m_e
CLZ	146.30		PKPbc	12:15:06.201	-0.2	8.0		2.75		TAS					m_e
FUR	149.88		PKPbc	12:15:15.728	-0.5	8.0		2.75		TAS					m_e
GEC2	148.91		PKPbc	12:15:13.160	-0.1	8.0		2.75		TAS					m_e
GRA1	148.37		PKPbc	12:15:11.984	-0.0	8.0		2.75		TAS					m_e
GTTG	146.62		PKPbc	12:15:06.972	-0.5	8.0		2.75		TAS					m_e
IBBN	145.95		PKPbc	12:15:04.942	0.2	8.0		2.75		TAS					m_e
MOX	147.39		PKPbc	12:15:09.067	0.2	8.0		2.75		TAS					m_e
NRDL	145.67		PKPbc	12:15:03.915	-0.2	8.0		2.75		TAS					m_e

RJOB	150.13	PKPbc	12:15:16.005	8.0	2.75	TAS	m_e
ROTZ	148.20	PKPbc	12:15:11.730	0.3	8.0	2.75	TAS
STU	149.44	PKPbc	12:15:14.629	-0.3	8.0	2.75	TAS
TANN	147.53	PKPbc	12:15:09.513	0.3	8.0	2.75	TAS
TNS	148.02	PKPbc	12:15:11.071	0.4	8.0	2.75	TAS
WET	148.73	PKPbc	12:15:12.633	0.0	8.0	2.75	TAS
WLF	148.60	PKPbc	12:15:12.990	-0.1	8.0	2.75	TAS

Event 1223007 Near Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/23	14:00:53.36		0.78	54.6460	170.6430				33.0			21	152	70.57	76.32	m i ke	BGR
OrigID 1223013																	

Magnitude	Err	Nsta	Author	OrigID
mb	6.0		BGR	1223013
MBB	6.6		BGR	1223013
Ms	6.2		BGR	1223013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	74.29		P	14:12:17.200	-0.1	12.2		5.81		TAS		180.5	1.42	m_e	MBB 6.6
BFO	76.32		P	14:12:28.805	-0.4	12.2		5.81		TAS		251.5	1.72	m_e	MBB 6.6
BRG	73.06		P	14:12:10.020	-0.3	12.2		5.81		TAS		221.8	1.39	m_e	MBB 6.7
BSEG	70.57		P	14:11:56.068	0.2	12.2		5.81		TAS		237.8	1.37	m_e	MBB 6.8
BUG	73.38		P	14:12:11.949	-0.1	12.2		5.81		TAS		187.5	1.33	m_e	MBB 6.6
CLL	72.78		P	14:12:08.246	-0.5	12.2		5.81		TAS		206.1	1.35	m_e	MBB 6.6
CLZ	72.62		P	14:12:08.062	0.3	12.2		5.81		TAS		272.7	1.38	m_e	MBB 6.7
FUR	76.10		P	14:12:28.027	0.0	12.2		5.81		TAS		585.6	1.91	m_e	MBB 6.7
GEC2	75.07		P	14:12:22.108	0.1	12.2		5.81		TAS		220.4	1.42	m_e	MBB 6.5
GEC2	75.07		PP	14:15:18.951						T__					m_e
GRA1	74.61		P	14:12:19.369	0.0	12.2		5.81		TAS		297.2	1.41	m_e	mb 6.1
GRA1	74.61		L	14:52:47.447						T__	13165.6	18.60	a_e	Ms	6.3
GTTG	72.96		P	14:12:09.705	-0.0	12.2		5.81		TAS		166.6	1.41	m_e	MBB 6.6
IBBN	72.47		P	14:12:06.935	0.1	12.2		5.81		TAS		351.2	1.26	m_e	MBB 6.8
MOX	73.62		P	14:12:13.413	-0.2	12.2		5.81		TAS		171.6	1.39	m_e	MBB 6.5
MOX	73.62		L	14:44:42.484						T__	11266.8	22.00	a_e	Ms	6.1
NRDL	72.01		P	14:12:04.091	-0.1	12.2		5.81		TAS		123.5	1.39	m_e	MBB 6.6
RJOB	76.29		P	14:12:29.223	0.1	12.2		5.81		TAS		91.7	1.07	m_e	MBB 6.7
ROTZ	74.40		P	14:12:18.573	0.5	12.2		5.81		TAS		229.5	1.42	m_e	MBB 6.5
STU	75.78		P	14:12:26.048	-0.1	12.2		5.81		TAS		151.5	1.47	m_e	MBB 6.6
TANN	73.73		P	14:12:14.297	0.1	12.2		5.81		TAS		175.6	1.36	m_e	MBB 6.6
TNS	74.44		P	14:12:18.351	0.0	12.2		5.81		TAS		136.8	1.41	m_e	MBB 6.5
WET	74.91		P	14:12:21.348	0.3	12.2		5.81		TAS		202.1	1.38	m_e	MBB 6.6
WET	74.91		PP	14:15:18.058						T__					m_e
WLF	75.25		P	14:12:23.198	0.3	12.2		5.81		TAS		556.7	2.03	m_e	MBB 6.6

Event 1223008 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/23	16:01:29.11		0.78	-20.0780	170.2250				33.0			11	152	144.98	148.25	m i ke	BGR
OrigID 1223014																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.25		PKPbc	16:21:11.412		37.0		3.28		TAS					m_e
BUG	145.96		PKPbc	16:21:04.456		37.0		3.28		TAS					m_e
FUR	147.23		PKPbc	16:21:08.911		37.0		3.28		TAS					m_e
GRA1	146.04		PKPbc	16:21:04.970		37.0		3.28		TAS					m_e
IBBN	145.06		PKPbc	16:21:01.602	0.0	37.0		3.28		TAS					m_e
MOX	145.12		PKPbc	16:21:01.584	0.3	37.0		3.28		TAS					m_e
RJOB	146.90		PKPbc	16:21:07.383		37.0		3.28		TAS					m_e
ROTZ	145.59		PKPbc	16:21:03.645	0.3	37.0		3.28		TAS					m_e
STU	147.56		PKPbc	16:21:09.735		37.0		3.28		TAS					m_e
TANN	144.98		PKPbc	16:21:00.996	0.2	37.0		3.28		TAS					m_e
TNS	146.62		PKPbc	16:21:06.990		37.0		3.28		TAS					m_e
WLF	147.86		PKPbc	16:21:11.280		37.0		3.28		TAS					m_e

Event 1224002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/24	00:05:38.58		0.73	-19.8490	170.7680				33.0			11	144	144.98	148.24	m i ke	BGR
OrigID 1224008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.24		PKPbc	00:25:20.708		36.0		3.19		TAS					m_e
FUR	147.25		PKPbc	00:25:18.133		36.0		3.19		TAS					m_e
GEC2	145.70		PKPbc	00:25:12.714	0.2	36.0		3.19		TAS					m_e
GRA1	146.04		PKPbc	00:25:14.436		36.0		3.19		TAS					m_e
IBBN	145.00		PKPbc	00:25:10.717	0.1	36.0		3.19		TAS					m_e
MOX	145.12		PKPbc	00:25:10.921		36.0		3.19		TAS					m_e
RJOB	146.93		PKPbc	00:25:16.683		36.0		3.19		TAS					m_e
ROTZ	145.60		PKPbc	00:25:12.995	-0.3	36.0		3.19		TAS					m_e
STU	147.56		PKPbc	00:25:18.953		36.0		3.19		TAS					m_e
TANN	144.98		PKPbc	00:25:10.719	0.4	36.0		3.19		TAS					m_e
WET	145.82		PKPbc	00:25:13.417		36.0		3.19		TAS					m_e
WLF	147.81		PKPbc	00:25:20.229		36.0		3.19		TAS					m_e

Event 1224003 Komandorsky Islands, Russia, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/24	00:39:31.75		0.73	53.7020	169.5170				33.0			15	144	73.27	77.10	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1224009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	75.09		P	00:51:09.237	-0.3	13.1		5.77		TAS		30.4	1.43	m_e mb	5.1
BFO	77.10		P	00:51:19.429		13.1		5.77		TAS		26.7	1.69	m_e mb	5.1
BRG	73.80		P	00:51:00.875	-0.2	13.1		5.77		TAS		13.4	0.87	m_e mb	5.0
CLL	73.52		P	00:50:58.922	-0.0	13.1		5.77		TAS		51.0	1.65	m_e mb	5.3
CLZ	73.39		P	00:50:58.756	-0.1	13.1		5.77		TAS		28.0	1.29	m_e mb	5.2
FUR	76.85		P	00:51:18.481		13.1		5.77		TAS		25.4	1.34	m_e mb	5.2
GEC2	75.80		P	00:51:12.752		13.1		5.77		TAS		52.0	1.74	m_e mb	5.4
GRA1	75.37		P	00:51:10.294	0.3	13.1		5.77		TAS		14.1	0.85	m_e mb	5.0
IBBN	73.27		P	00:50:57.952	-0.5	13.1		5.77		TAS		27.1	0.72	m_e mb	5.5
MOX	74.38		P	00:51:04.364	0.2	13.1		5.77		TAS		37.0	1.67	m_e mb	5.1
RJOB	77.02		P	00:51:19.970		13.1		5.77		TAS		9.5	0.77	m_e mb	5.0
ROTZ	75.14		P	00:51:08.711	0.2	13.1		5.77		TAS		27.6	1.45	m_e mb	5.1
TANN	74.48		P	00:51:04.727	0.5	13.1		5.77		TAS		32.9	1.64	m_e mb	5.1
WET	75.64		P	00:51:12.151	-0.7	13.1		5.77		TAS		27.2	1.47	m_e mb	5.2
WLF	76.06		P	00:51:13.608		13.1		5.77		TAS		26.7	1.27	m_e mb	5.2

Event 1224005 Pacific-Antarctic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/24	05:48:54.50		0.63	-63.5900	-167.4200				10.7					201	166.05	167.01	m i ke	NEIC

Magnitude	Err	Nsta	Author	OrigID
Ms	6.0		BGR	1224011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	166.05		PKPab	06:09:57.670		182.5		4.70		TAS				m_e	
GRA1	166.05		L	07:32:59.715						T__		1883.8	21.80	a_e Ms	5.9
MOX	167.01		L	07:29:27.727						T__		2526.0	22.00	a_e Ms	6.0

Event 1224008 Southeast of Honshu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/24	17:27:52.84		0.74	29.1680	142.2540				33.0			21	111	87.40	92.51	m i ke	BGR
OrigID 1224014																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1224014

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	91.29		P	17:40:53.793	0.1	41.2		4.66		TAS		18.4	1.42	m_e mb	5.2
BFO	92.51		P	17:40:59.042	-0.4	41.2		4.66		TAS		22.8	1.09	m_e mb	5.5
BRG	88.19		P	17:40:39.234	-0.1	41.2		4.66		TAS		13.0	0.99	m_e mb	5.2
BSEG	87.40		P	17:40:35.708	0.1	41.2		4.66		TAS		33.5	0.89	m_e mb	5.5
BUG	90.51		P	17:40:49.644	-0.4	41.2		4.66		TAS		38.6	1.34	m_e mb	5.6
CLL	88.28		P	17:40:39.370	-0.3	41.2		4.66		TAS		21.2	0.98	m_e mb	5.4
CLZ	88.97		P	17:40:43.165	0.2	41.2		4.66		TAS		33.2	1.20	m_e mb	5.4
FUR	91.37		P	17:40:54.211	0.1	41.2		4.66		TAS		33.5	0.89	m_e mb	5.7
GEC2	89.78		P	17:40:46.451	-0.2	41.2		4.66		TAS		18.6	1.14	m_e mb	5.2
GRA1	90.24		P	17:40:49.143	0.3	41.2		4.66		TAS		26.4	1.05	m_e mb	5.4
GTTG	89.36		P	17:40:44.671	-0.1	41.2		4.66		TAS		21.6	1.15	m_e mb	5.3
IBBN	89.64		P	17:40:46.009	-0.0	41.2		4.66		TAS		35.5	1.05	m_e mb	5.5
MOX	89.36		P	17:40:44.713	-0.0	41.2		4.66		TAS		12.5	1.08	m_e mb	5.1
NRDL	88.58		P	17:40:41.099	0.0	41.2		4.66		TAS		10.4	1.01	m_e mb	5.0
RJOB	91.00		P	17:40:52.533	0.1	41.2		4.66		TAS		25.5	1.12	m_e mb	5.5
ROTZ	89.76		P	17:40:47.063	0.5	41.2		4.66		TAS		24.3	1.23	m_e mb	5.3
STU	91.80		P	17:40:55.999	-0.1	41.2		4.66		TAS		26.4	0.99	m_e mb	5.5
TANN	89.17		P	17:40:43.704	-0.1	41.2		4.66		TAS		11.5	1.13	m_e mb	5.0
TNS	90.99		P	17:40:52.355	0.0	41.2		4.66		TAS		15.1	1.45	m_e mb	5.1
WET	89.92		P	17:40:47.474	0.1	41.2		4.66		TAS		11.9	1.28	m_e mb	5.0
WLF	92.35		P	17:40:59.002	0.3	41.2		4.66		TAS		30.7	1.42	m_e mb	5.4

Event 1224009 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/24	23:42:23.39		0.74	47.9170	151.3840				33.0			9	111	74.91	78.91	m i ke	BGR
OrigID 1224015																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.0		BGR	1224015

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	78.91		P	23:54:21.424		27.6		4.75		TAS		12.6	1.01	m_e mb	4.9
BUG	76.35		P	23:54:07.341	-0.4	27.6		4.75		TAS		21.7	1.21	m_e mb	5.2
CLL	74.91		P	23:53:58.780	0.2	27.6		4.75		TAS		17.6	0.98	m_e mb	5.1

GEC2	76.89	P	23:54:10.127	27.6	4.75	TAS	35.3	2.07	m_e	mb	5.1
GRA1	76.87	P	23:54:10.634	27.6	4.75	TAS	17.5	0.83	m_e	mb	5.2
RJOB	78.15	P	23:54:17.625	27.6	4.75	TAS	7.8	0.95	m_e	mb	4.8
ROTZ	76.51	P	23:54:08.520	27.6	4.75	TAS	10.6	1.03	m_e	mb	4.9
TNS	77.16	P	23:54:12.029	27.6	4.75	TAS	13.8	1.02	m_e	mb	5.0
WET	76.87	P	23:54:10.573	27.6	4.75	TAS	13.9	1.06	m_e	mb	5.0

Event 1224010 Puerto Rico region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/24	23:43:42.02		0.74	17.6700	-66.1370				101.6	2.5		14	111	65.31	70.27	m i ke	BGR
OrigID 1224016																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1224016

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	65.92		pP	23:54:42.885						T__				m_e		
BSEG	67.95		P	23:54:28.891	0.3	272.3		6.29		TAS		14.2	1.05	m_e	mb	5.1
BUG	66.06		P	23:54:17.192	0.1	272.3		6.29		TAS		11.7	1.05	m_e	mb	5.0
CLL	69.66		P	23:54:39.788		272.3		6.29		TAS		29.2	1.38	m_e	mb	5.2
CLL	69.66		pP	23:55:04.988						T__				m_e		
FUR	68.70		P	23:54:34.042	-0.1	272.3		6.29		TAS		15.4	1.02	m_e	mb	5.2
GEC2	70.27		P	23:54:43.707		272.3		6.29		TAS		8.7	1.18	m_e	mb	4.8
GEC2	70.27		pP	23:55:08.726						T__				m_e		
GRA1	68.60		P	23:54:33.307	-0.1	272.3		6.29		TAS		10.6	0.96	m_e	mb	5.0
GRA1	68.60		pP	23:54:58.953						T__				m_e		
GTTG	67.75		P	23:54:27.802	-0.0	272.3		6.29		TAS		11.2	0.97	m_e	mb	5.1
IBBN	66.39		P	23:54:19.352	0.2	272.3		6.29		TAS		20.2	0.99	m_e	mb	5.3
IBBN	66.39		pP	23:54:45.360						T__				m_e		
MANZ	69.16		P	23:54:37.187		272.3		6.29		TAS				m_e		
ROTZ	69.23		P	23:54:37.675		272.3		6.29		TAS		15.1	1.13	m_e	mb	5.1
STU	67.30		P	23:54:24.955	0.0	272.3		6.29		TAS		12.1	0.84	m_e	mb	5.2
TANN	69.36		P	23:54:38.242		272.3		6.29		TAS		18.0	1.42	m_e	mb	5.1
TNS	66.80		P	23:54:22.196	-0.1	272.3		6.29		TAS		20.2	1.12	m_e	mb	5.3
WET	69.71		P	23:54:40.193		272.3		6.29		TAS		7.3	0.98	m_e	mb	4.8
WLF	65.31		P	23:54:12.600	-0.0	272.3		6.29		TAS		45.4	1.43	m_e	mb	5.5

Event 1225001 Kyushu, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/25	00:22:55.51	6.15	0.26	30.6110	131.1940	205.7	187.9	111	33.0				18	354	81.55	86.36	m i ke	BGR
OrigID 1225007																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.3		BGR	1225007
Ms	4.9		BGR	1225007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	81.84		P	00:35:09.434	-0.3	48.6		5.11		TAS		27.7	1.68	m_e	mb 5.1
BSEG	81.55		P	00:35:08.374	0.2	48.6		5.11		TAS		38.3	1.53	m_e	mb 5.3
BUG	84.61		P	00:35:23.309	-0.5	48.6		5.11		TAS		40.8	1.54	m_e	mb 5.4
CLL	82.02		P	00:35:10.392	-0.3	48.6		5.11		TAS		24.1	1.10	m_e	mb 5.2
CLZ	82.92		P	00:35:15.670	0.5	48.6		5.11		TAS		30.3	0.97	m_e	mb 5.5
FUR	84.93		P	00:35:26.337	0.8	48.6		5.11		TAS		23.1	1.00	m_e	mb 5.4
GEC2	83.26		P	00:35:16.406	-0.6	48.6		5.11		TAS		11.9	1.09	m_e	mb 5.0
GRA1	83.94		P	00:35:21.290	0.8	48.6		5.11		TAS		81.5	1.60	m_e	mb 5.7
GRA1	83.94		L	01:17:36.506						T__		475.5	18.50	a_e	Ms 4.9
GTTG	83.30		P	00:35:17.315	0.1	48.6		5.11		TAS		22.7	0.74	m_e	mb 5.5
IBBN	83.79		P	00:35:19.477	-0.1	48.6		5.11		TAS		29.6	0.71	m_e	mb 5.6
MOX	83.12		P	00:35:15.923	-0.4	48.6		5.11		TAS		13.6	1.38	m_e	mb 5.0
MOX	83.12		L	01:17:11.008						T__		617.1	19.40	a_e	Ms 5.0
NRDL	82.60		P	00:35:13.743	0.2	48.6		5.11		TAS		26.2	1.50	m_e	mb 5.2
RJOB	84.43		P	00:35:22.820	-0.1	48.6		5.11		TAS		21.2	1.15	m_e	mb 5.3
ROTZ	83.41		P	00:35:18.637	0.9	48.6		5.11		TAS		47.3	1.61	m_e	mb 5.5
TANN	82.86		P	00:35:14.575	-0.4	48.6		5.11		TAS		21.2	1.64	m_e	mb 5.1
TNS	84.91		P	00:35:25.959	0.6	48.6		5.11		TAS		13.3	1.35	m_e	mb 5.0
WET	83.48		P	00:35:17.464	-0.7	48.6		5.11		TAS		20.2	1.50	m_e	mb 5.1
WLF	86.36		P	00:35:32.075		48.6		5.11		TAS		384.2	3.95	m_e	mb 5.9

Event 1225002 Tonga Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	02:42:39.40		0.26	-21.1800	-174.2800				35.0				354	151.22	151.22	m i ke	NEIC

OrigID 1225065

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	151.22		PKPab	03:02:37.816		10.7		3.97		TAS				m_e	

Event 1225004 Socotra region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/25	12:29:53.57		1.62	11.4950	55.3950				33.0				12	238	50.72	55.51	m i ke	BGR

OrigID 1225010



Magnitude Err Nsta Author OrigID  
 mb 4.9 BGR 1225010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	53.63		P	12:39:12.916	0.1	123.4		4.58		TAS		7.3	0.74	m_e	mb 4.8
BRG	51.78		PcP	12:40:07.641						T__				m_e	
CLL	52.52		P	12:39:04.475	0.1	123.4		4.58		TAS		8.7	0.90	m_e	mb 4.7
CLL	52.52		PcP	12:40:10.159						T__				m_e	
CLZ	54.19		P	12:39:16.793		123.4		4.58		TAS		13.1	1.06	m_e	mb 4.9
FUR	51.82		P	12:38:59.341	0.2	123.4		4.58		TAS		31.2	0.75	m_e	mb 5.3
GEC2	50.79		PcP	12:40:03.208						T__				m_e	
GRA1	52.62		P	12:39:04.865	-0.0	123.4		4.58		TAS		15.8	0.89	m_e	mb 4.9
GRA1	52.62		PcP	12:40:10.716						T__				m_e	
GTTG	54.25		P	12:39:17.263		123.4		4.58		TAS		16.7	1.21	m_e	mb 4.9
MOX	52.90		P	12:39:07.297	-0.8	123.4		4.58		TAS		47.3	2.32	m_e	mb 5.0
NRDL	54.67		P	12:39:20.567		123.4		4.58		TAS		36.8	1.58	m_e	mb 5.2
RJOB	50.72		P	12:38:51.191	0.1	123.4		4.58		TAS		12.2	0.92	m_e	mb 4.8
ROTZ	52.11		P	12:39:01.250	0.0	123.4		4.58		TAS		9.4	1.39	m_e	mb 4.5
TNS	54.44		P	12:39:17.907		123.4		4.58		TAS		17.3	1.47	m_e	mb 4.9
WET	51.41		PcP	12:40:05.704						T__				m_e	
WLF	55.51		P	12:39:26.594		123.4		4.58		TAS		18.6	0.94	m_e	mb 5.1

Event 1225005 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/25	13:16:34.46		1.62	-20.2650	169.7920				33.0					17	238	144.06	148.26	m i ke BGR
	1225011																	

Magnitude Err Nsta Author OrigID  
 Ms 7.5 BGR 1225011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.84		PKPbc	13:36:13.108	0.2	40.2		2.96		TAS				m_e	
BFO	148.26		PKPbc	13:36:16.905		40.2		2.96		TAS				m_e	
BUG	146.00		PKPbc	13:36:09.821	-0.2	40.2		2.96		TAS				m_e	
CLL	144.06		PKPbc	13:36:02.977	0.1	40.2		2.96		TAS				m_e	
FUR	147.21		PKPbc	13:36:13.992		40.2		2.96		TAS				m_e	
GEC2	145.64		PKPbc	13:36:08.459	0.4	40.2		2.96		TAS				m_e	
GRA1	146.04		PKPbc	13:36:10.316	0.1	40.2		2.96		TAS				m_e	
GRA1	146.04		PP	13:39:39.073						T__				m_e	
GRA1	146.04		SKKS	13:50:50.101						T__				m_e	
GRA1	146.04		L	14:54:13.475						T__		84032.0	21.00	a_e	Ms 7.5
GTTG	145.01		PKPbc	13:36:06.704	-0.3	40.2		2.96		TAS				m_e	
IBBN	145.10		PKPbc	13:36:07.016	0.0	40.2		2.96		TAS				m_e	
MOX	145.13		PKPbc	13:36:06.900	-0.4	40.2		2.96		TAS				m_e	

MOX	145.13	L	14:42:42.626							T__	73524.3	20.70	a_e	Ms	7.4
RJOB	146.86	PKPbc	13:36:12.708	-0.6	40.2	2.96				TAS			m_e		
ROTZ	145.58	PKPbc	13:36:09.044	0.4	40.2	2.96				TAS			m_e		
STU	147.57	PKPbc	13:36:15.194		40.2	2.96				TAS			m_e		
TANN	144.97	PKPbc	13:36:06.466	0.6	40.2	2.96				TAS			m_e		
TNS	146.65	PKPbc	13:36:12.505	0.1	40.2	2.96				TAS			m_e		
WET	145.77	PKPbc	13:36:09.152	0.2	40.2	2.96				TAS			m_e		
WLF	147.90	PKPbc	13:36:16.728		40.2	2.96				TAS			m_e		

Event 1225006 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	13:44:06.20		1.62	-20.7500	168.7160				33.0			7	238	146.03	148.28	m i ke	BGR
OrigID 1225012																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.93		PKPbc	14:03:44.728		39.8		3.10		TAS				m_e	
BFO	148.28		PKPbc	14:03:48.642		39.8		3.10		TAS				m_e	
FUR	147.17		PKPbc	14:03:45.746		39.8		3.10		TAS				m_e	
GRA1	146.03		PKPbc	14:03:42.055		39.8		3.10		TAS				m_e	
RJOB	146.79		PKPbc	14:03:44.351		39.8		3.10		TAS				m_e	
STU	147.58		PKPbc	14:03:46.957		39.8		3.10		TAS				m_e	
WLF	147.99		PKPbc	14:03:48.625		39.8		3.10		TAS				m_e	

Event 1225007 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	13:49:19.89		1.62	-20.8990	168.3950				33.0			7	238	146.03	148.29	m i ke	BGR
OrigID 1225013																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.95		PKPbc	14:08:58.677		40.4		3.25		TAS				m_e	
BFO	148.29		PKPbc	14:09:02.698		40.4		3.25		TAS				m_e	
FUR	147.16		PKPbc	14:08:59.761		40.4		3.25		TAS				m_e	
GRA1	146.03		PKPbc	14:08:55.748		40.4		3.25		TAS				m_e	
RJOB	146.76		PKPbc	14:08:57.965		40.4		3.25		TAS				m_e	
STU	147.59		PKPbc	14:09:00.953		40.4		3.25		TAS				m_e	
WLF	148.01		PKPbc	14:09:02.662		40.4		3.25		TAS				m_e	

Event 1225009 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	13:59:02.49		1.62	-20.1010	170.1710				33.0			18	238	144.06	148.25	m i ke	BGR
OrigID 1225015																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.81		PKPbc	14:18:40.908	0.5	37.1		3.32		TAS					m_e
BFO	148.25		PKPbc	14:18:44.929		37.1		3.32		TAS					m_e
BUG	145.96		PKPbc	14:18:37.900	0.0	37.1		3.32		TAS					m_e
CLL	144.06		PKPbc	14:18:32.042	0.1	37.1		3.32		TAS					m_e
CLZ	144.60		PKPbc	14:18:32.788	-0.1	37.1		3.32		TAS					m_e
FUR	147.22		PKPbc	14:18:42.235	-0.5	37.1		3.32		TAS					m_e
GEC2	145.66		PKPbc	14:18:36.762	0.3	37.1		3.32		TAS					m_e
GRA1	146.04		PKPbc	14:18:38.349	-0.3	37.1		3.32		TAS					m_e
GTTG	144.99		PKPbc	14:18:34.673	-0.2	37.1		3.32		TAS					m_e
IBBN	145.06		PKPbc	14:18:35.086	-0.2	37.1		3.32		TAS					m_e
MOX	145.12		PKPbc	14:18:34.901	0.3	37.1		3.32		TAS					m_e
RJOB	146.89		PKPbc	14:18:40.730	0.1	37.1		3.32		TAS					m_e
ROTZ	145.59		PKPbc	14:18:36.907	-0.3	37.1		3.32		TAS					m_e
STU	147.57		PKPbc	14:18:43.193		37.1		3.32		TAS					m_e
TANN	144.98		PKPbc	14:18:34.677	-0.2	37.1		3.32		TAS					m_e
TNS	146.62		PKPbc	14:18:40.558	0.2	37.1		3.32		TAS					m_e
WET	145.79		PKPbc	14:18:37.118	0.4	37.1		3.32		TAS					m_e
WLF	147.86		PKPbc	14:18:44.912		37.1		3.32		TAS					m_e

Event 1225010 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	14:44:20.45		1.62	-20.9390	168.5500				42.8	0.7		11	238	145.66	148.38	m i ke	BGR
OrigID 1225016																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.04		pPKPbc	15:04:15.616		39.2		3.24		TAS					m_e
BFO	148.38		PKPbc	15:04:06.830		40.2		3.06		TAS					m_e
BFO	148.38		pPKPbc	15:04:19.568		39.2		3.24		TAS					m_e
BUG	146.22		pPKPbc	15:04:13.080		39.2		3.24		TAS					m_e
FUR	147.26		PKPbc	15:04:03.999		40.2		3.06		TAS					m_e
FUR	147.26		pPKPbc	15:04:16.853		39.2		3.24		TAS					m_e

GRA1	146.13	PKPbc	15:04:00.048	40.2	3.06	TAS	m_e
GRA1	146.13	pPKPbc	15:04:13.086	39.2	3.24	TAS	m_e
RJOB	146.87	PKPbc	15:04:02.522	40.2	3.06	TAS	m_e
RJOB	146.87	pPKPbc	15:04:15.255	39.2	3.24	TAS	m_e
ROTZ	145.66	pPKPbc	15:04:11.155	-0.4 39.2	3.24	TAS	m_e
STU	147.69	PKPbc	15:04:05.046	40.2	3.06	TAS	m_e
STU	147.69	pPKPbc	15:04:17.857	39.2	3.24	TAS	m_e
TNS	146.81	PKPbc	15:04:02.412	40.2	3.06	TAS	m_e
TNS	146.81	pPKPbc	15:04:15.044	39.2	3.24	TAS	m_e
WET	145.82	pPKPbc	15:04:11.632	0.3 39.2	3.24	TAS	m_e
WLF	148.10	PKPbc	15:04:06.551	40.2	3.06	TAS	m_e
WLF	148.10	pPKPbc	15:04:19.512	39.2	3.24	TAS	m_e

Event 1225013 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	15:04:16.42		1.62	-20.6020	169.0380				33.0			8	238	145.17	148.28	m i ke	BGR
OrigID 1225019																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	15:23:58.898		39.2		3.12		TAS					m_e
FUR	147.18		PKPbc	15:23:56.194		39.2		3.12		TAS					m_e
GRA1	146.03		PKPbc	15:23:52.277		39.2		3.12		TAS					m_e
IBBN	145.17		PKPbc	15:23:49.945		39.2		3.12		TAS					m_e
RJOB	146.81		PKPbc	15:23:54.890		39.2		3.12		TAS					m_e
STU	147.58		PKPbc	15:23:57.280		39.2		3.12		TAS					m_e
TNS	146.69		PKPbc	15:23:54.616		39.2		3.12		TAS					m_e
WLF	147.96		PKPbc	15:23:58.819		39.2		3.12		TAS					m_e

Event 1225015 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	15:26:18.96		1.62	-20.3370	169.6310				33.0			9	238	145.12	148.26	m i ke	BGR
OrigID 1225021																	

Magnitude Err Nsta Author OrigID  
mb 5.5 BGR 1225021

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.26		PKPbc	15:46:01.409		38.1		3.17		TAS					m_e
BUG	146.01		PKPbc	15:45:54.374		38.1		3.17		TAS					m_e

FUR	147.21	PKPbc	15:45:58.577	38.1	3.17	TAS	m_e
GRA1	146.04	PKPbc	15:45:54.818	38.1	3.17	TAS	m_e
IBBN	145.12	PKPbc	15:45:52.328	0.4 38.1	3.17	TAS	m_e
RJOB	146.85	PKPbc	15:45:57.173	38.1	3.17	TAS	m_e
ROTZ	145.58	PKPbc	15:45:53.286	38.1	3.17	TAS	m_e
STU	147.57	PKPbc	15:45:59.674	38.1	3.17	TAS	m_e
WLF	147.91	PKPbc	15:46:01.267	38.1	3.17	TAS	m_e

Event 1225016 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	15:28:35.10		1.62	-20.2650	169.7920				33.0			14	238	144.97	148.26	m i ke	BGR
OrigID 1225022																	

Magnitude	Err	Nsta	Author	OrigID
mb	5.5		BGR	1225022

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.84		PKPbc	15:48:13.618		37.8		3.26		TAS					m_e
BFO	148.26		PKPbc	15:48:17.482		37.8		3.26		TAS					m_e
BUG	146.00		PKPbc	15:48:10.472	-0.4	37.8		3.26		TAS					m_e
FUR	147.21		PKPbc	15:48:14.591		37.8		3.26		TAS					m_e
GRA1	146.04		PKPbc	15:48:10.961	0.4	37.8		3.26		TAS					m_e
GTTG	145.01		PKPbc	15:48:07.449	0.3	37.8		3.26		TAS					m_e
IBBN	145.10		PKPbc	15:48:07.865	-0.3	37.8		3.26		TAS					m_e
MOX	145.13		PKPbc	15:48:07.499	-0.4	37.8		3.26		TAS					m_e
RJOB	146.86		PKPbc	15:48:13.177		37.8		3.26		TAS					m_e
ROTZ	145.58		PKPbc	15:48:09.501	0.1	37.8		3.26		TAS					m_e
STU	147.57		PKPbc	15:48:15.734		37.8		3.26		TAS					m_e
TANN	144.97		PKPbc	15:48:07.111	-0.1	37.8		3.26		TAS					m_e
WET	145.77		PKPbc	15:48:09.749	0.1	37.8		3.26		TAS					m_e
WLF	147.90		PKPbc	15:48:17.394		37.8		3.26		TAS					m_e

Event 1225017 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	16:22:11.32		1.62	-20.7070	169.2250				33.0			5	238	146.20	148.44	m i ke	BGR
OrigID 1225023																	

Magnitude	Err	Nsta	Author	OrigID
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Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.44		PKPbc	16:41:54.347		39.0		3.04		TAS					m_e

FUR	147.36	PKPbc	16:41:51.713	39.0	3.04	TAS	m_e
GRA1	146.20	PKPbc	16:41:47.678	39.0	3.04	TAS	m_e
RJOB	146.99	PKPbc	16:41:50.124	39.0	3.04	TAS	m_e
STU	147.75	PKPbc	16:41:52.690	39.0	3.04	TAS	m_e

Event 1225018 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	16:47:36.80		1.62	-20.5050	169.2530				33.0			7	238	145.15	148.27	m i ke	BGR
1225024																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.27		PKPbc	17:07:19.137		38.8		3.28		TAS					m_e
GRA1	146.03		PKPbc	17:07:12.655		38.8		3.28		TAS					m_e
IBBN	145.15		PKPbc	17:07:09.369		38.8		3.28		TAS					m_e
RJOB	146.83		PKPbc	17:07:14.865		38.8		3.28		TAS					m_e
STU	147.58		PKPbc	17:07:17.517		38.8		3.28		TAS					m_e
TNS	146.67		PKPbc	17:07:14.954		38.8		3.28		TAS					m_e
WLF	147.94		PKPbc	17:07:19.072		38.8		3.28		TAS					m_e

Event 1225019 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	16:49:00.50		1.62	-21.9540	170.4520				33.0			8	238	147.82	150.05	m i ke	BGR
1225025																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	148.63		PKPbc	17:08:44.514		38.1		2.81		TAS					m_e
BFO	150.05		PKPbc	17:08:48.203		38.1		2.81		TAS					m_e
FUR	148.99		PKPbc	17:08:45.620		38.1		2.81		TAS					m_e
GRA1	147.82		PKPbc	17:08:41.577		38.1		2.81		TAS					m_e
RJOB	148.63		PKPbc	17:08:43.992		38.1		2.81		TAS					m_e
STU	149.35		PKPbc	17:08:45.646		38.1		2.81		TAS					m_e
TNS	148.43		PKPbc	17:08:43.709		38.1		2.81		TAS					m_e
WLF	149.69		PKPbc	17:08:47.022		38.1		2.81		TAS					m_e

Event 1225020 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	16:53:56.89		1.62	-20.3840	169.5230				33.0			10	238	145.12	148.27	m i ke	BGR
OrigID 1225026																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.86		PKPbc	17:13:35.353		38.3		3.21		TAS					m_e
BFO	148.27		PKPbc	17:13:39.435		38.3		3.21		TAS					m_e
BUG	146.03		PKPbc	17:13:32.246		38.3		3.21		TAS					m_e
FUR	147.20		PKPbc	17:13:36.521		38.3		3.21		TAS					m_e
GRA1	146.04		PKPbc	17:13:32.746		38.3		3.21		TAS					m_e
IBBN	145.12		PKPbc	17:13:30.380	0.4	38.3		3.21		TAS					m_e
RJOB	146.84		PKPbc	17:13:35.188		38.3		3.21		TAS					m_e
STU	147.57		PKPbc	17:13:37.624		38.3		3.21		TAS					m_e
TNS	146.66		PKPbc	17:13:34.903		38.3		3.21		TAS					m_e
WLF	147.92		PKPbc	17:13:39.360		38.3		3.21		TAS					m_e

Event 1225021 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	17:02:23.76		1.62	-20.3360	169.6300				33.0			10	238	145.11	148.26	m i ke	BGR
OrigID 1225027																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.85		PKPbc	17:22:05.954		38.1		3.42		TAS					m_e
BFO	148.26		PKPbc	17:22:09.703		38.1		3.42		TAS					m_e
FUR	147.20		PKPbc	17:22:06.909		38.1		3.42		TAS					m_e
GRA1	146.03		PKPbc	17:22:03.049		38.1		3.42		TAS					m_e
IBBN	145.11		PKPbc	17:21:59.513	0.2	38.1		3.42		TAS					m_e
MOX	145.13		PKPbc	17:21:59.460	-0.0	38.1		3.42		TAS					m_e
RJOB	146.85		PKPbc	17:22:05.444		38.1		3.42		TAS					m_e
STU	147.57		PKPbc	17:22:07.897		38.1		3.42		TAS					m_e
TNS	146.65		PKPbc	17:22:05.231		38.1		3.42		TAS					m_e
WLF	147.91		PKPbc	17:22:09.608		38.1		3.42		TAS					m_e

Event 1225022 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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2010/12/25 17:11:38.39 1.62 -21.8380 168.9690 33.0 4 238 147.11 149.36 m i ke BGR  
1225028

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.36		PKPbc	17:31:23.863		40.3		2.90		TAS					m_e
GRA1	147.11		PKPbc	17:31:17.438		40.3		2.90		TAS					m_e
RJOB	147.84		PKPbc	17:31:19.865		40.3		2.90		TAS					m_e
STU	148.66		PKPbc	17:31:22.446		40.3		2.90		TAS					m_e

Event 1225023 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	17:40:14.30		1.62	27.0400	143.4000				28.8				238	92.58	92.58	m i ke	NEIC

OrigID  
1225085

Magnitude Err Nsta Author OrigID

mb 5.1 BGR 1225029

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.58		P	17:53:22.814		49.7		4.44		TAS		10.3	1.24	m_e mb	5.1

Event 1225025 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	18:28:25.07		0.88	-20.5780	169.0920				33.0				8	176	145.13	148.28	m i ke BGR

OrigID  
1225031

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	18:48:07.487		39.1		3.15		TAS					m_e
FUR	147.18		PKPbc	18:48:04.563		39.1		3.15		TAS					m_e
GRA1	146.03		PKPbc	18:48:00.928		39.1		3.15		TAS					m_e
IBBN	145.17		PKPbc	18:47:58.490		39.1		3.15		TAS					m_e
MOX	145.13		PKPbc	18:47:57.631	0.2	39.1		3.15		TAS					m_e
RJOB	146.81		PKPbc	18:48:03.319		39.1		3.15		TAS					m_e
STU	147.58		PKPbc	18:48:05.865		39.1		3.15		TAS					m_e
TNS	146.68		PKPbc	18:48:02.973		39.1		3.15		TAS					m_e



Event 1225026 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	18:39:27.27		0.88	-21.1770	168.4780				361.4	1.8		8	176	146.31	148.57	m i ke	BGR
OrigID 1225032																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.24		pPKPbc	18:59:55.614		40.3		2.89		TAS					m_e
BFO	148.57		PKPbc	18:58:31.696		40.5		2.92		TAS					m_e
BFO	148.57		pPKPbc	18:59:59.541		40.3		2.89		TAS					m_e
BUG	146.42		PKPbc	18:58:26.028		40.5		2.92		TAS					m_e
BUG	146.42		pPKPbc	18:59:54.028		40.3		2.89		TAS					m_e
FUR	147.44		PKPbc	18:58:29.333		40.5		2.92		TAS					m_e
FUR	147.44		pPKPbc	18:59:56.751		40.3		2.89		TAS					m_e
GRA1	146.31		PKPbc	18:58:25.554		40.5		2.92		TAS					m_e
RJOB	147.04		PKPbc	18:58:27.719		40.5		2.92		TAS					m_e
RJOB	147.04		pPKPbc	18:59:55.296		40.3		2.89		TAS					m_e
STU	147.87		PKPbc	18:58:30.092		40.5		2.92		TAS					m_e
STU	147.87		pPKPbc	18:59:57.728		40.3		2.89		TAS					m_e
TNS	147.00		PKPbc	18:58:27.750		40.5		2.92		TAS					m_e
TNS	147.00		pPKPbc	18:59:55.151		40.3		2.89		TAS					m_e
WLF	148.30		PKPbc	18:58:31.957		40.5		2.92		TAS					m_e
WLF	148.30		pPKPbc	18:59:59.338		40.3		2.89		TAS					m_e

Event 1225027 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	18:52:30.40		0.88	-20.7990	168.6090				33.0			7	176	146.03	148.28	m i ke	BGR
OrigID 1225033																	

Magnitude Err Nsta Author OrigID

mb 5.0 BGR 1225033

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	19:12:13.105		40.0		3.18		TAS					m_e
FUR	147.16		PKPbc	19:12:10.257		40.0		3.18		TAS					m_e
GRA1	146.03		PKPbc	19:12:06.262		40.0		3.18		TAS					m_e
RJOB	146.78		PKPbc	19:12:08.820		40.0		3.18		TAS					m_e
STU	147.58		PKPbc	19:12:11.381		40.0		3.18		TAS					m_e
TNS	146.71		PKPbc	19:12:08.427		40.0		3.18		TAS					m_e
WLF	148.00		PKPbc	19:12:13.067		40.0		3.18		TAS					m_e

Event 1225028 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	19:03:47.58		0.88	-20.7990	168.6090				33.0				6	176	146.03	148.00	m i ke BGR

OrigID  
1225034

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
FUR	147.16		PKPbc	19:23:27.304		40.0		3.25		TAS					m_e
GRA1	146.03		PKPbc	19:23:23.440		40.0		3.25		TAS					m_e
RJOB	146.78		PKPbc	19:23:25.864		40.0		3.25		TAS					m_e
STU	147.58		PKPbc	19:23:28.379		40.0		3.25		TAS					m_e
TNS	146.71		PKPbc	19:23:25.632		40.0		3.25		TAS					m_e
WLF	148.00		PKPbc	19:23:30.063		40.0		3.25		TAS					m_e

Event 1225029 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	19:08:34.86		0.88	-21.9370	168.7600				33.0				6	176	147.10	149.37	m i ke BGR

OrigID  
1225035

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	149.37		PKPbc	19:28:20.408		40.7		2.90		TAS					m_e
GRA1	147.10		PKPbc	19:28:13.906		40.7		2.90		TAS					m_e
RJOB	147.82		PKPbc	19:28:16.224		40.7		2.90		TAS					m_e
STU	148.66		PKPbc	19:28:18.725		40.7		2.90		TAS					m_e
TNS	147.80		PKPbc	19:28:16.106		40.7		2.90		TAS					m_e
WLF	149.10		PKPbc	19:28:19.983		40.7		2.90		TAS					m_e

Event 1225030 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	19:10:43.21		0.88	-20.3600	169.5770				33.0				6	176	145.12	148.27	m i ke BGR

OrigID  
1225036

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
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BFO	148.27	PKPbc	19:30:25.505	38.2	3.23	TAS	m_e
GRA1	146.04	PKPbc	19:30:19.069	38.2	3.23	TAS	m_e
IBBN	145.12	PKPbc	19:30:15.926	38.2	3.23	TAS	m_e
RJOB	146.85	PKPbc	19:30:21.444	38.2	3.23	TAS	m_e
STU	147.57	PKPbc	19:30:23.789	38.2	3.23	TAS	m_e
WLF	147.91	PKPbc	19:30:25.453	38.2	3.23	TAS	m_e

Event 1225031 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	19:16:42.96		0.88	-21.0200	168.3930				33.0			7	176	146.14	148.39	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.39		PKPbc	19:36:25.827		40.5		3.05		TAS				m_e	
FUR	147.26		PKPbc	19:36:22.982		40.5		3.05		TAS				m_e	
GRA1	146.14		PKPbc	19:36:19.129		40.5		3.05		TAS				m_e	
RJOB	146.87		PKPbc	19:36:21.421		40.5		3.05		TAS				m_e	
STU	147.69		PKPbc	19:36:23.795		40.5		3.05		TAS				m_e	
TNS	146.83		PKPbc	19:36:21.238		40.5		3.05		TAS				m_e	
WLF	148.12		PKPbc	19:36:25.663		40.5		3.05		TAS				m_e	

Event 1225032 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	19:42:35.34		0.88	52.0780	177.6380				33.0			14	176	73.83	79.56	m i ke	BGR

Magnitude Err Nsta Author OrigID  
mb 5.1 BGR 1225038

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	77.45		P	19:54:25.714	-0.3	8.5		5.58		TAS		16.8	0.84	m_e mb	5.2
BFO	79.56		P	19:54:37.899		8.5		5.58		TAS		48.5	1.99	m_e mb	5.2
BRG	76.50		P	19:54:21.294	-0.5	8.5		5.58		TAS		11.8	1.29	m_e mb	4.9
BSEG	73.83		P	19:54:05.761	-0.0	8.5		5.58		TAS		21.4	0.99	m_e mb	5.2
BUG	76.54		P	19:54:20.279	-1.1	8.5		5.58		TAS		44.6	1.66	m_e mb	5.3
CLZ	75.90		P	19:54:18.016	0.7	8.5		5.58		TAS		20.2	0.92	m_e mb	5.1
GRA1	77.95		P	19:54:28.519	-0.2	8.5		5.58		TAS		67.0	1.94	m_e mb	5.4
GTTG	76.23		P	19:54:19.384	0.6	8.5		5.58		TAS		16.0	0.93	m_e mb	5.1
IBBN	75.64		P	19:54:15.749	-0.1	8.5		5.58		TAS		25.7	0.77	m_e mb	5.3

MOX	76.97	P	19:54:22.274	-0.2	8.5	5.58	TAS	62.9	2.59	m_e mb	5.3
NRDL	75.28	P	19:54:13.761	-0.1	8.5	5.58	TAS	12.1	0.93	m_e mb	4.9
STU	79.05	P	19:54:34.685		8.5	5.58	TAS	10.1	1.04	m_e mb	4.8
TNS	77.67	P	19:54:27.188	0.6	8.5	5.58	TAS	16.6	1.06	m_e mb	5.1
WLF	78.38	P	19:54:31.640		8.5	5.58	TAS	18.2	1.06	m_e mb	5.1

Event 1225033 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	20:04:03.92		0.88	-20.7500	168.7160				33.0			8	176	146.03	148.28	m i ke	BGR
OrigID 1225039																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.93		PKPbc	20:23:42.725		39.8		3.12		TAS				m_e	
BFO	148.28		PKPbc	20:23:46.532		39.8		3.12		TAS				m_e	
FUR	147.17		PKPbc	20:23:43.790		39.8		3.12		TAS				m_e	
GRA1	146.03		PKPbc	20:23:39.784		39.8		3.12		TAS				m_e	
RJOB	146.79		PKPbc	20:23:42.215		39.8		3.12		TAS				m_e	
STU	147.58		PKPbc	20:23:44.797		39.8		3.12		TAS				m_e	
TNS	146.70		PKPbc	20:23:42.060		39.8		3.12		TAS				m_e	
WLF	147.99		PKPbc	20:23:46.435		39.8		3.12		TAS				m_e	

Event 1225034 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	20:20:38.31		0.88	51.0780	-178.1750				33.0			12	176	76.57	80.82	m i ke	BGR
OrigID 1225040																	

Magnitude Err Nsta Author OrigID

mb 5.2 BGR 1225040

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.66		P	20:32:35.105	-0.4	6.0		5.48		TAS		96.7	1.97	m_e mb	5.5
BFO	80.82		P	20:32:46.624		6.0		5.48		TAS		42.3	1.80	m_e mb	5.2
CLL	77.55		P	20:32:28.633	0.3	6.0		5.48		TAS		46.5	2.09	m_e mb	5.2
CLZ	77.20		P	20:32:27.060	-0.3	6.0		5.48		TAS		34.8	1.51	m_e mb	5.3
FUR	80.81		P	20:32:46.374		6.0		5.48		TAS		84.7	1.95	m_e mb	5.4
GEC2	79.94		P	20:32:42.114		6.0		5.48		TAS		72.8	2.53	m_e mb	5.2
GRA1	79.29		P	20:32:38.872		6.0		5.48		TAS		33.5	1.38	m_e mb	5.2
IBBN	76.87		P	20:32:25.151	0.1	6.0		5.48		TAS		78.5	1.73	m_e mb	5.6
MOX	78.31		P	20:32:33.137	0.4	6.0		5.48		TAS		35.5	1.78	m_e mb	5.2

NRDL	76.57	P	20:32:23.214	0.0	6.0	5.48	TAS	11.9	1.21	m_e	mb	4.9
TANN	78.48	P	20:32:34.281	0.1	6.0	5.48	TAS	20.5	1.71	m_e	mb	5.0
TNS	78.92	P	20:32:36.390	-0.1	6.0	5.48	TAS	19.4	1.34	m_e	mb	5.0

Event 1225036 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	22:26:06.70		0.88	-19.6770	168.6290				37.3	0.6		10	176	143.97	147.28	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	147.28		pPKPbc	22:45:56.460		39.1		3.22		TAS					m_e
FUR	146.19		PKPbc	22:45:42.313		38.8		3.36		TAS					m_e
FUR	146.19		pPKPbc	22:45:53.569		39.1		3.22		TAS					m_e
GRA1	145.04		PKPbc	22:45:38.791		38.8		3.36		TAS					m_e
GRA1	145.04		pPKPbc	22:45:49.890		39.1		3.22		TAS					m_e
GTTG	144.05		pPKPbc	22:45:46.601	-0.0	39.1		3.22		TAS					m_e
IBBN	144.18		PKPbc	22:45:35.560		38.8		3.36		TAS					m_e
MOX	144.14		pPKPbc	22:45:46.336	0.2	39.1		3.22		TAS					m_e
RJOB	145.82		PKPbc	22:45:40.904		38.8		3.36		TAS					m_e
ROTZ	144.57		pPKPbc	22:45:48.218	-0.4	39.1		3.22		TAS					m_e
STU	146.58		PKPbc	22:45:43.226		38.8		3.36		TAS					m_e
STU	146.58		pPKPbc	22:45:54.583		39.1		3.22		TAS					m_e
TANN	143.97		pPKPbc	22:45:46.084	0.2	39.1		3.22		TAS					m_e
TNS	145.69		pPKPbc	22:45:51.988		39.1		3.22		TAS					m_e
WLF	146.96		PKPbc	22:45:45.189		38.8		3.36		TAS					m_e
WLF	146.96		pPKPbc	22:45:56.222		39.1		3.22		TAS					m_e

Event 1225037 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	22:41:28.78		0.88	-20.8230	168.5550				33.0			5	176	146.03	148.28	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	23:01:12.717		40.1		3.64		TAS					m_e
FUR	147.16		PKPbc	23:01:08.635		40.1		3.64		TAS					m_e
GRA1	146.03		PKPbc	23:01:04.639		40.1		3.64		TAS					m_e
RJOB	146.77		PKPbc	23:01:07.109		40.1		3.64		TAS					m_e

TNS 146.71 PKPbc 23:01:06.754 40.1 3.64 TAS m\_e

Event 1225038 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	23:20:24.02		0.88	-20.8240	168.7550				42.8			9	176	145.22	148.36	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.01		PKPbc	23:40:00.922		39.8		3.05		TAS					m_e
BFO	148.36		PKPbc	23:40:04.893		39.8		3.05		TAS					m_e
FUR	147.25		PKPbc	23:40:02.170		39.8		3.05		TAS					m_e
GRA1	146.11		PKPbc	23:39:58.647		39.8		3.05		TAS					m_e
GRA1	146.11		pPKPbc	23:40:11.478						T__					m_e
MOX	145.22		PKPbc	23:39:55.240	-0.4	39.8		3.05		TAS					m_e
RJOB	146.87		PKPbc	23:40:00.422		39.8		3.05		TAS					m_e
ROTZ	145.64		PKPbc	23:39:57.148		39.8		3.05		TAS					m_e
TNS	146.78		PKPbc	23:40:00.540		39.8		3.05		TAS					m_e
WLF	148.07		PKPbc	23:40:04.867		39.8		3.05		TAS					m_e

Event 1226001 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/25	23:56:55.88			-20.8300	167.2800				33.0			7		145.00	147.76	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.49		PKPbc	00:16:33.433		41.1		3.09		TAS					m_e
BFO	147.76		PKPbc	00:16:36.713		41.1		3.09		TAS					m_e
FUR	146.59		PKPbc	00:16:33.778		41.1		3.09		TAS					m_e
RJOB	146.17		PKPbc	00:16:32.184		41.1		3.09		TAS					m_e
ROTZ	145.00		PKPbc	00:16:28.464		41.1		3.09		TAS					m_e
STU	147.06		PKPbc	00:16:34.974		41.1		3.09		TAS					m_e
TNS	146.23		PKPbc	00:16:32.184		41.1		3.09		TAS					m_e
WLF	147.55		PKPbc	00:16:36.568		41.1		3.09		TAS					m_e

Event 1226002 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	00:12:37.13			-20.5100	168.9300				33.0				13	145.01	148.15	m i ke	BGR
OrigID 1226008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.78		PKPbc	00:32:15.405		37.9		3.22		TAS					m_e
BFO	148.15		PKPbc	00:32:19.614		37.9		3.22		TAS					m_e
FUR	147.05		PKPbc	00:32:16.385		37.9		3.22		TAS					m_e
GEC2	145.46		PKPbc	00:32:11.662	-0.2	37.9		3.22		TAS					m_e
GRA1	145.91		PKPbc	00:32:12.548	0.0	37.9		3.22		TAS					m_e
IBBN	145.05		PKPbc	00:32:09.793	0.1	37.9		3.22		TAS					m_e
MOX	145.01		PKPbc	00:32:09.104	-0.5	37.9		3.22		TAS					m_e
RJOB	146.68		PKPbc	00:32:14.811		37.9		3.22		TAS					m_e
ROTZ	145.44		PKPbc	00:32:11.072	0.1	37.9		3.22		TAS					m_e
STU	147.45		PKPbc	00:32:17.173		37.9		3.22		TAS					m_e
TNS	146.56		PKPbc	00:32:14.516		37.9		3.22		TAS					m_e
WET	145.61		PKPbc	00:32:11.797	0.1	37.9		3.22		TAS					m_e
WLF	147.84		PKPbc	00:32:18.845		37.9		3.22		TAS					m_e

Event 1226003 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	01:00:22.43			-20.1250	170.1170				33.0				18	144.06	148.25	m i ke	BGR
OrigID 1226009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.81		PKPbc	01:20:01.235	0.2	37.2		3.24		TAS					a_e
BFO	148.25		PKPbc	01:20:04.735		37.2		3.24		TAS					a_e
BUG	145.97		PKPbc	01:19:57.735	0.5	37.2		3.24		TAS					a_e
CLL	144.06		PKPbc	01:19:51.557	-0.1	37.2		3.24		TAS					m_e
CLZ	144.61		PKPbc	01:19:53.534	-0.2	37.2		3.24		TAS					m_e
FUR	147.22		PKPbc	01:20:02.035	-0.4	37.2		3.24		TAS					a_e
GEC2	145.66		PKPbc	01:19:57.004	-0.4	37.2		3.24		TAS					m_e
GRA1	146.04		PKPbc	01:19:58.285	-0.4	37.2		3.24		TAS					a_e
GTTG	144.99		PKPbc	01:19:54.735	0.2	37.2		3.24		TAS					a_e
IBBN	145.07		PKPbc	01:19:54.935	0.0	37.2		3.24		TAS					a_e
MOX	145.12		PKPbc	01:19:54.835	0.1	37.2		3.24		TAS					m_e
RJOB	146.89		PKPbc	01:20:00.485	0.0	37.2		3.24		TAS					a_e
ROTZ	145.59		PKPbc	01:19:56.735	0.3	37.2		3.24		TAS					a_e
STU	147.57		PKPbc	01:20:02.935		37.2		3.24		TAS					a_e

TANN	144.98	PKPbc	01:19:54.435	-0.3	37.2		3.24	TAS		a_e
TNS	146.63	PKPbc	01:19:59.989	0.2	37.2		3.24	TAS		m_e
WET	145.79	PKPbc	01:19:57.212	0.0	37.2		3.24	TAS		m_e
WLF	147.87	PKPbc	01:20:04.435		37.2		3.24	TAS		a_e

Event 1226004 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	01:12:02.49			-20.6510	168.9310				33.0			9		145.13	148.28	m i ke	BGR
	1226010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	01:31:45.157		39.4		3.27		TAS					m_e
FUR	147.18		PKPbc	01:31:42.291		39.4		3.27		TAS					m_e
GRA1	146.03		PKPbc	01:31:38.350		39.4		3.27		TAS					m_e
MOX	145.13		PKPbc	01:31:34.946	0.2	39.4		3.27		TAS					m_e
RJOB	146.80		PKPbc	01:31:40.768		39.4		3.27		TAS					m_e
ROTZ	145.56		PKPbc	01:31:36.827		39.4		3.27		TAS					m_e
STU	147.58		PKPbc	01:31:43.545		39.4		3.27		TAS					m_e
TNS	146.69		PKPbc	01:31:40.589		39.4		3.27		TAS					m_e
WLF	147.97		PKPbc	01:31:44.889		39.4		3.27		TAS					m_e

Event 1226005 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	01:25:31.86			-20.2580	169.9200				33.0			7		144.11	149.37	m i ke	BGR
	1226011																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BALST	149.37		PKPbc	01:45:16.543		37.6		3.06		TAS					m_e
CLL	144.11		PKPbc	01:45:01.545	0.3	37.6		3.06		TAS					m_e
GEC2	145.69		PKPbc	01:45:06.082		37.6		3.06		TAS					m_e
GRA1	146.08		PKPbc	01:45:07.842		37.6		3.06		TAS					m_e
GUNZ	145.11		PKPbc	01:45:04.559		37.6		3.06		TAS					m_e
IBBN	145.13		PKPbc	01:45:04.775		37.6		3.06		TAS					m_e
MOX	145.17		PKPbc	01:45:05.002		37.6		3.06		TAS					m_e
PLN	145.08		PKPbc	01:45:04.316		37.6		3.06		TAS					m_e
TAUT	144.87		PKPbc	01:45:04.794		37.6		3.06		TAS					m_e
TRIB	145.20		PKPbc	01:45:05.614		37.6		3.06		TAS					m_e



Event 1226006 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	02:13:38.06			-20.4900	169.3600				33.0				9	144.09	148.30	m i ke	BGR
OrigID 1226012																	

Magnitude	Err	Nsta	Author	OrigID
Ms 5.5			BGR	1226012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.91		PKPbc	02:33:16.923		37.2		3.38		TAS				a_e	
BFO	148.30		SS	02:55:51.596		44.3		11.48		TAS				m_e	
BFO	148.30		PKPbc	02:33:21.065		37.2		3.38		TAS				m_e	
BUG	146.07		PKPbc	02:33:13.673	0.1	37.2		3.38		TAS				a_e	
CLL	144.09		SS	02:55:01.585	-0.8	44.3		11.48		TAS				m_e	
CLZ	144.67		SS	02:55:15.227	0.8	44.3		11.48		TAS				m_e	
FUR	147.22		SS	02:55:39.738		44.3		11.48		TAS				m_e	
FUR	147.22		PKPbc	02:33:18.023		37.2		3.38		TAS				a_e	
GEC2	145.64		SS	02:55:20.146		44.3		11.48		TAS				m_e	
GEC2	145.64		PKPbc	02:33:12.437	-0.4	37.2		3.38		TAS				m_e	
GRA1	146.06		SS	02:55:25.866		44.3		11.48		TAS				m_e	
GRA1	146.06		PKPbc	02:33:14.273	0.1	37.2		3.38		TAS				a_e	
GRA1	146.06		L	03:34:39.981						T__		1060.1	21.80	a_e Ms	5.6
GTTG	145.06		PKPbc	02:33:10.523	0.4	37.2		3.38		TAS				a_e	
IBBN	145.17		PKPbc	02:33:10.673	-0.3	37.2		3.38		TAS				a_e	
MOX	145.16		SS	02:55:15.506	-0.5	44.3		11.48		TAS				m_e	
MOX	145.16		PKPbc	02:33:10.673	0.2	37.2		3.38		TAS				a_e	
MOX	145.16		L	03:36:57.199						T__		807.7	21.80	a_e Ms	5.5
RJOB	146.86		PKPbc	02:33:16.473	0.2	37.2		3.38		TAS				a_e	
ROTZ	145.60		PKPbc	02:33:12.623	0.3	37.2		3.38		TAS				a_e	
STU	147.61		SS	02:55:43.862		44.3		11.48		TAS				m_e	
STU	147.61		PKPbc	02:33:19.097		37.2		3.38		TAS				m_e	
TANN	145.00		PKPbc	02:33:10.323	0.3	37.2		3.38		TAS				m_e	
TNS	146.70		PKPbc	02:33:16.273	-0.3	37.2		3.38		TAS				a_e	
WET	145.78		SS	02:55:22.724		44.3		11.48		TAS				m_e	
WET	145.78		PKPbc	02:33:13.254	0.1	37.2		3.38		TAS				m_e	
WLF	147.96		PKPbc	02:33:20.523		37.2		3.38		TAS				a_e	

Event 1226007 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	02:43:52.89			-20.6260	168.9840				33.0				4	145.00	148.28	m i ke	BGR
OrigID																	

1226013

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	03:03:35.242		39.3		3.42		TAS					m_e
FUR	147.18		PKPbc	03:03:32.204		39.3		3.42		TAS					m_e
GRA1	146.03		PKPbc	03:03:28.746		39.3		3.42		TAS					m_e
ROTZ	145.56		PKPbc	03:03:27.141		39.3		3.42		TAS					m_e
TNS	146.69		PKPbc	03:03:30.734		39.3		3.42		TAS					m_e
WERD	145.00		PKPbc	03:03:25.205		39.3		3.42		TAS					m_e
WERN	145.10		PKPbc	03:03:25.571		39.3		3.42		TAS					m_e
WLF	147.96		PKPbc	03:03:35.167		39.3		3.42		TAS					m_e

Event 1226008 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	02:48:33.06			-20.3130	169.6850				33.0				12	145.11	148.26	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.85		PKPbc	03:08:11.793		38.0		3.21		TAS					m_e
BFO	148.26		PKPbc	03:08:15.748		38.0		3.21		TAS					m_e
FUR	147.21		PKPbc	03:08:12.822		38.0		3.21		TAS					m_e
GEC2	145.63		PKPbc	03:08:07.990	0.1	38.0		3.21		TAS					m_e
GRA1	146.04		PKPbc	03:08:08.915		38.0		3.21		TAS					m_e
IBBN	145.11		PKPbc	03:08:05.831	0.2	38.0		3.21		TAS					m_e
RJOB	146.86		PKPbc	03:08:11.177		38.0		3.21		TAS					m_e
ROTZ	145.58		PKPbc	03:08:07.476	-0.0	38.0		3.21		TAS					m_e
STU	147.57		PKPbc	03:08:13.747		38.0		3.21		TAS					m_e
TNS	146.65		PKPbc	03:08:11.440		38.0		3.21		TAS					m_e
WET	145.77		PKPbc	03:08:07.990	-0.3	38.0		3.21		TAS					m_e
WLF	147.91		PKPbc	03:08:15.289		38.0		3.21		TAS					m_e

Event 1226009 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	03:26:02.19			-21.8840	169.0600				33.0				8	146.71	149.44	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	148.09		PKPbc	03:45:44.023		40.2		2.89		TAS				m_e	
BFO	149.44		PKPbc	03:45:47.285		40.2		2.89		TAS				m_e	
FUR	148.31		PKPbc	03:45:44.816		40.2		2.89		TAS				m_e	
GRA1	147.19		PKPbc	03:45:41.468		40.2		2.89		TAS				m_e	
RJOB	147.92		PKPbc	03:45:43.168		40.2		2.89		TAS				m_e	
ROTZ	146.71		PKPbc	03:45:39.547		40.2		2.89		TAS				m_e	
STU	148.74		PKPbc	03:45:46.225		40.2		2.89		TAS				m_e	
TNS	147.87		PKPbc	03:45:43.089		40.2		2.89		TAS				m_e	

Event 1226010 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	06:17:58.24			-20.1250	170.1170				33.0			19		144.02	148.25	m i ke	BGR
OrigID 1226016																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.81		PKPbc	06:37:37.049	0.2	37.2		3.18		TAS				m_e	
BFO	148.25		PKPbc	06:37:40.500	-0.3	37.2		3.18		TAS				a_e	
BRG	144.02		PKPbc	06:37:27.850	-0.3	37.2		3.18		TAS				a_e	
BUG	145.97		PKPbc	06:37:33.450	-0.2	37.2		3.18		TAS				a_e	
CLL	144.06		PKPbc	06:37:28.054	0.4	37.2		3.18		TAS				m_e	
CLZ	144.61		PKPbc	06:37:29.200	0.5	37.2		3.18		TAS				m_e	
FUR	147.22		PKPbc	06:37:38.119		37.2		3.18		TAS				m_e	
GEC2	145.66		PKPbc	06:37:32.400	-0.4	37.2		3.18		TAS				a_e	
GRA1	146.04		PKPbc	06:37:34.100	-0.2	37.2		3.18		TAS				a_e	
GTTG	144.99		PKPbc	06:37:30.500	-0.6	37.2		3.18		TAS				a_e	
IBBN	145.07		PKPbc	06:37:30.932	-0.1	37.2		3.18		TAS				m_e	
MOX	145.12		PKPbc	06:37:30.700	0.5	37.2		3.18		TAS				a_e	
RJOB	146.89		PKPbc	06:37:36.400		37.2		3.18		TAS				a_e	
ROTZ	145.59		PKPbc	06:37:32.600	0.3	37.2		3.18		TAS				a_e	
STU	147.57		PKPbc	06:37:38.800	0.5	37.2		3.18		TAS				a_e	
TANN	144.98		PKPbc	06:37:30.200	0.3	37.2		3.18		TAS				a_e	
TNS	146.63		PKPbc	06:37:36.200	0.2	37.2		3.18		TAS				a_e	
WET	145.79		PKPbc	06:37:32.952	0.1	37.2		3.18		TAS				m_e	
WLF	147.87		PKPbc	06:37:40.250	-0.4	37.2		3.18		TAS				a_e	

Event 1226011 Rat Islands, Aleutian Islands, United States

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

2010/12/26 06:32:40.91 51.2000 176.7940 33.0 4.1 10 74.63 78.56 m i ke BGR  
1226017

Magnitude Err Nsta Author OrigID  
mb 4.8 BGR 1226017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	78.26		P	06:44:34.608		15.1		4.83		TAS		12.2	1.20	m_e	mb 4.9
BRG	77.27		P	06:44:29.129	0.3	15.1		4.83		TAS		6.4	1.13	m_e	mb 4.7
BSEG	74.63		P	06:44:15.714	0.5	15.1		4.83		TAS		10.7	1.23	m_e	mb 4.7
CLZ	76.69		P	06:44:25.936	-0.4	15.1		4.83		TAS		11.1	1.23	m_e	mb 4.9
GTTG	77.02		P	06:44:27.717	-0.3	15.1		4.83		TAS		20.8	1.43	m_e	mb 5.1
IBBN	76.45		P	06:44:24.872	0.0	15.1		4.83		TAS		20.3	1.10	m_e	mb 5.2
MOX	77.75		P	06:44:31.872	0.1	15.1		4.83		TAS		4.1	1.25	m_e	mb 4.4
NRDL	76.07		P	06:44:22.808	-0.1	15.1		4.83		TAS		6.5	1.03	m_e	mb 4.7
ROTZ	78.56		P	06:44:36.869		15.1		4.83		TAS		8.4	1.28	m_e	mb 4.6
TANN	77.89		P	06:44:33.146	0.5	15.1		4.83		TAS		29.6	2.07	m_e	mb 5.1

Event 1226012 Vanuatu Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
OrigID  
2010/12/26 06:52:48.20 -20.4560 169.3610 33.0 16 144.97 148.27 m i ke BGR  
1226018

Magnitude Err Nsta Author OrigID  
mb 5.0 BGR 1226018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.87		PKPbc	07:12:27.139		38.6		3.26		TAS				m_e	
BFO	148.27		PKPbc	07:12:30.600		38.6		3.26		TAS				m_e	
BUG	146.04		PKPbc	07:12:23.935	0.0	38.6		3.26		TAS				m_e	
FUR	147.19		PKPbc	07:12:28.037		38.6		3.26		TAS				m_e	
GEC2	145.61		PKPbc	07:12:22.269	-0.2	38.6		3.26		TAS				m_e	
GRA1	146.03		PKPbc	07:12:24.063	0.4	38.6		3.26		TAS				m_e	
GTTG	145.03		PKPbc	07:12:20.731	-0.2	38.6		3.26		TAS				m_e	
IBBN	145.14		PKPbc	07:12:20.988	-0.2	38.6		3.26		TAS				m_e	
MOX	145.13		PKPbc	07:12:20.859	0.3	38.6		3.26		TAS				m_e	
RJOB	146.83		PKPbc	07:12:26.370	-0.5	38.6		3.26		TAS				m_e	
ROTZ	145.57		PKPbc	07:12:22.525	0.1	38.6		3.26		TAS				m_e	
STU	147.58		PKPbc	07:12:28.806		38.6		3.26		TAS				m_e	
TANN	144.97		PKPbc	07:12:20.219	-0.2	38.6		3.26		TAS				m_e	
TNS	146.67		PKPbc	07:12:26.114	0.1	38.6		3.26		TAS				m_e	
WET	145.76		PKPbc	07:12:22.750	0.3	38.6		3.26		TAS				m_e	
WLF	147.93		PKPbc	07:12:30.344		38.6		3.26		TAS				m_e	

Event 1226013 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	10:00:00.09			-20.2420	169.8470				36.2	2.1		13		144.97	148.26	m i ke	BGR
OrigID 1226019																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.83		PKPbc	10:19:39.767	0.4	37.7		3.21		TAS					m_e
BFO	148.26		PKPbc	10:19:43.611		37.7		3.21		TAS					m_e
FUR	147.21		PKPbc	10:19:40.820		37.7		3.21		TAS					m_e
FUR	147.21		pPKPbc	10:19:51.373						T__					m_e
GEC2	145.64		PKPbc	10:19:35.673		37.7		3.21		TAS					m_e
GRA1	146.04		PKPbc	10:19:35.951		37.7		3.21		TAS					m_e
GRA1	146.04		pPKPbc	10:19:47.375						T__					m_e
MOX	145.13		PKPbc	10:19:33.606	0.2	37.7		3.21		TAS					m_e
RJOB	146.87		PKPbc	10:19:39.326		37.7		3.21		TAS					m_e
RJOB	146.87		pPKPbc	10:19:50.232						T__					m_e
ROTZ	145.58		PKPbc	10:19:35.172	-0.2	37.7		3.21		TAS					m_e
ROTZ	145.58		pPKPbc	10:19:45.822						T__					m_e
STU	147.57		PKPbc	10:19:42.005		37.7		3.21		TAS					m_e
STU	147.57		pPKPbc	10:19:52.202						T__					m_e
TANN	144.97		PKPbc	10:19:33.685	-0.2	37.7		3.21		TAS					m_e
TNS	146.64		PKPbc	10:19:38.508	0.4	37.7		3.21		TAS					m_e
TNS	146.64		pPKPbc	10:19:49.700						T__					m_e
WET	145.78		PKPbc	10:19:35.687		37.7		3.21		TAS					m_e
WLF	147.89		PKPbc	10:19:42.764		37.7		3.21		TAS					m_e
WLF	147.89		pPKPbc	10:19:53.659						T__					m_e

Event 1226014 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	10:33:29.79			-20.1950	169.9550				176.5			14		145.08	148.26	m i ke	BGR
OrigID 1226020																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.82		PKPbc	10:52:50.431		37.5		3.18		TAS					m_e
BFO	148.26		PKPbc	10:52:54.168		37.5		3.18		TAS					m_e
BUG	145.99		PKPbc	10:52:48.049	-0.6	37.5		3.18		TAS					m_e
FUR	147.22		PKPbc	10:52:51.480		37.5		3.18		TAS					m_e
GEC2	145.65		PKPbc	10:52:46.689	0.0	37.5		3.18		TAS					m_e

GRA1	146.04	PKPbc	10:52:47.857	0.2	37.5	3.18	TAS	m_e
IBBN	145.08	PKPbc	10:52:44.702	-0.3	37.5	3.18	TAS	m_e
MOX	145.13	PKPbc	10:52:44.235	0.4	37.5	3.18	TAS	m_e
RJOB	146.88	PKPbc	10:52:50.195		37.5	3.18	TAS	m_e
ROTZ	145.58	PKPbc	10:52:46.455	-0.0	37.5	3.18	TAS	m_e
STU	147.57	PKPbc	10:52:52.766		37.5	3.18	TAS	m_e
TNS	146.64	PKPbc	10:52:50.078		37.5	3.18	TAS	m_e
WET	145.78	PKPbc	10:52:47.273	0.2	37.5	3.18	TAS	m_e
WLF	147.88	PKPbc	10:52:54.051		37.5	3.18	TAS	m_e

Event 1226015 Andreanof Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	11:29:35.41			51.5950	-173.8520				33.0			18		74.78	80.88	m i ke	BGR
	1226021																

Magnitude	Err	Nsta	Author	OrigID
mb	4.3		BGR	1226021

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
BFO	80.44		P	11:41:43.002		6.3		4.86		TAS		2.6	0.81	m_e	mb	4.2
BRG	77.70		P	11:41:25.031	0.2	6.3		4.86		TAS		1.8	0.72	m_e	mb	4.3
BSEG	74.78		P	11:41:10.483	0.4	6.3		4.86		TAS		7.7	0.73	m_e	mb	4.8
CLL	77.31		P	11:41:22.570	0.1	6.3		4.86		TAS		1.4	0.77	m_e	mb	4.2
CLZ	76.88		P	11:41:22.426	-0.6	6.3		4.86		TAS		3.6	0.72	m_e	mb	4.6
FUR	80.53		P	11:41:42.802		6.3		4.86		TAS		6.2	0.60	m_e	mb	4.8
GEC2	79.73		P	11:41:36.309		6.3		4.86		TAS		1.4	0.84	m_e	mb	3.9
GRA1	79.00		P	11:41:34.361		6.3		4.86		TAS		2.6	0.65	m_e	mb	4.4
MOX	78.03		P	11:41:27.697	-0.3	6.3		4.86		TAS		1.1	0.67	m_e	mb	4.1
NRDL	76.23		P	11:41:17.985	-0.5	6.3		4.86		TAS		2.6	0.75	m_e	mb	4.4
PLN	78.17		P	11:41:28.766	0.1	6.3		4.86		TAS		0.7	0.75	m_e	mb	3.9
RJOB	80.88		P	11:41:47.062		6.3		4.86		TAS		1.9	0.74	m_e	mb	4.2
ROHR	78.41		P	11:41:30.084		6.3		4.86		TAS		0.9	0.76	m_e	mb	4.0
ROTZ	78.89		P	11:41:32.809		6.3		4.86		TAS		1.0	0.92	m_e	mb	3.9
SCHD	78.16		P	11:41:28.861	0.2	6.3		4.86		TAS		1.8	0.74	m_e	mb	4.3
SCHF	77.97		P	11:41:27.184	-0.2	6.3		4.86		TAS		1.2	0.76	m_e	mb	4.1
TAUT	77.69		P	11:41:26.159	0.4	6.3		4.86		TAS		3.8	0.67	m_e	mb	4.6
TNS	78.54		P	11:41:32.454		6.3		4.86		TAS		2.5	0.78	m_e	mb	4.3
WERN	78.36		P	11:41:29.944		6.3		4.86		TAS		3.8	1.15	m_e	mb	4.4
WIMM	77.16		P	11:41:22.980	-0.1	6.3		4.86		TAS		4.0	0.69	m_e	mb	4.7

Event 1226016 Southeast of Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
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OrigID  
 2010/12/26 11:58:15.35 -21.0520 169.4040 33.0 9 146.59 148.83 m i ke BGR  
 1226022

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	147.44		PKPbc	12:17:56.031		39.0		2.98		TAS				m_e	
BFO	148.83		PKPbc	12:17:59.414		39.0		2.98		TAS				m_e	
BUG	146.61		PKPbc	12:17:53.842		39.0		2.98		TAS				m_e	
FUR	147.74		PKPbc	12:17:57.324		39.0		2.98		TAS				m_e	
GRA1	146.59		PKPbc	12:17:52.847		39.0		2.98		TAS				m_e	
RJOB	147.37		PKPbc	12:17:55.633		39.0		2.98		TAS				m_e	
STU	148.13		PKPbc	12:17:58.220		39.0		2.98		TAS				m_e	
TNS	147.23		PKPbc	12:17:55.334		39.0		2.98		TAS				m_e	
WLF	148.50		PKPbc	12:17:59.314		39.0		2.98		TAS				m_e	

Event 1226017 Rat Islands, Aleutian Islands, United States

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/26 12:24:21.58 51.3990 176.2590 33.0 78.48 78.48 m i ke BGR  
 1226023

Magnitude Err Nsta Author OrigID  
 mb 4.8 BGR 1226023

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	78.48		P	12:36:17.708		8.4		4.81		TAS		13.7	1.72	m_e mb	4.8

Event 1226018 Vanuatu Islands

Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/26 13:34:05.82 -20.2890 169.7380 33.0 16 144.97 148.26 m i ke BGR  
 1226024

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.84		PKPbc	13:53:44.386	-0.4	37.9		3.23		TAS				m_e	
BFO	148.26		PKPbc	13:53:48.018		37.9		3.23		TAS				m_e	
BUG	146.00		PKPbc	13:53:41.080	0.4	37.9		3.23		TAS				m_e	
FUR	147.21		PKPbc	13:53:45.419		37.9		3.23		TAS				m_e	
GEC2	145.63		PKPbc	13:53:39.749	0.3	37.9		3.23		TAS				m_e	

GRA1	146.04	PKPbc	13:53:41.679	-0.4	37.9	3.23	TAS	m_e
GTTG	145.01	PKPbc	13:53:37.934	-0.3	37.9	3.23	TAS	m_e
IBBN	145.10	PKPbc	13:53:38.329	0.1	37.9	3.23	TAS	m_e
MOX	145.13	PKPbc	13:53:38.090	0.5	37.9	3.23	TAS	m_e
RJOB	146.86	PKPbc	13:53:43.766		37.9	3.23	TAS	m_e
ROTZ	145.58	PKPbc	13:53:39.884	0.7	37.9	3.23	TAS	m_e
STU	147.57	PKPbc	13:53:45.792		37.9	3.23	TAS	m_e
TANN	144.97	PKPbc	13:53:37.731	-0.4	37.9	3.23	TAS	m_e
TNS	146.65	PKPbc	13:53:43.951	0.0	37.9	3.23	TAS	m_e
WET	145.77	PKPbc	13:53:40.442	-0.3	37.9	3.23	TAS	m_e
WLF	147.90	PKPbc	13:53:47.522		37.9	3.23	TAS	m_e

Event 1226019 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	15:34:06.05	5.84	0.64	38.8470	38.9950	185.7	125.6	14	10.0				8 354	20.71	24.39	m i ke	BGR
OrigID 1226025																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	22.05		P	15:39:00.300	0.3					T__					m_e
CLZ	23.77		P	15:39:16.102	-1.0					T__					m_e
GEC2	20.71		P	15:38:45.251	-0.5					T__					m_e
GRA1	22.52		P	15:39:05.718	0.9					T__					m_e
ROTZ	21.94		P	15:38:59.247	0.4					T__					m_e
TANN	22.02		P	15:39:00.300	0.7					T__					m_e
TNS	24.39		P	15:39:23.024	-0.1					T__					m_e
WET	21.32		P	15:38:51.722	-0.7					T__					m_e

Event 1226020 Turkey

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/26	15:34:06.05		0.64	38.8470	38.9950				10.0				354	20.71	24.39	m i ke	BGR
OrigID 1226026																	

Magnitude Err Nsta Author OrigID

mb	Err	Nsta	Author	OrigID
4.5			BGR	1226026

  

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
CLL	22.05		P	15:39:00.300						T__		56.6	2.16	m_e mb	4.6
CLZ	23.77		P	15:39:16.102						T__		8.9	1.09	m_e mb	4.2
GEC2	20.71		P	15:38:45.251						T__		34.7	2.05	m_e mb	4.3



GRA1	22.52	P	15:39:05.718	T__	51.7	1.26	m_e	mb	4.9
ROTZ	21.94	P	15:38:59.247	T__	14.2	1.18	m_e	mb	4.3
TANN	22.02	P	15:39:00.300	T__	74.4	2.43	m_e	mb	4.7
TNS	24.39	P	15:39:23.024	T__	45.8	1.53	m_e	mb	4.8
WET	21.32	P	15:38:51.722	T__	8.5	0.99	m_e	mb	4.0

Event 1226021 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/26	18:18:37.99		0.64	-16.7000	-177.7700				33.0			13	354	145.36	148.06	m i ke	BGR	
	1226027																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.06		PKPbc	18:38:19.384		23.4		3.46		TAS				m_e	
GEC2	146.60		PKPbc	18:38:15.457		23.4		3.46		TAS				m_e	
GRA1	146.29		PKPbc	18:38:15.125		23.4		3.46		TAS				m_e	
GUNZ	145.45		PKPbc	18:38:11.927		23.4		3.46		TAS				m_e	
PLN	145.36		PKPbc	18:38:11.310	-0.0	23.4		3.46		TAS				m_e	
RJOB	147.85		PKPbc	18:38:19.488		23.4		3.46		TAS				m_e	
ROTZ	146.04		PKPbc	18:38:14.010		23.4		3.46		TAS				m_e	
TANN	145.37		PKPbc	18:38:11.839		23.4		3.46		TAS				m_e	
TNS	146.19		PKPbc	18:38:14.113		23.4		3.46		TAS				m_e	
TRIB	145.50		PKPbc	18:38:12.591		23.4		3.46		TAS				m_e	
WERD	145.37		PKPbc	18:38:11.664	-0.1	23.4		3.46		TAS				m_e	
WERN	145.51		PKPbc	18:38:12.532		23.4		3.46		TAS				m_e	
WLF	146.97		PKPbc	18:38:17.078		23.4		3.46		TAS				m_e	

Event 1226024 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/26	19:38:23.18		0.64	-20.1480	170.0630				34.3				354	146.82	146.82	m i ke	BGR	
	1226030																	

Magnitude Err Nsta Author OrigID

MBB	5.7		BGR	1226030
Ms	5.3		BGR	1226030

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.82		PKPbc	19:58:01.643		37.3		3.49		TAS				a_e	
AHRW	146.82		pPKPbc	19:58:11.967						T__				m_e	
BFO			PKPbc	19:58:06.743		37.3		3.49		TAS				a_e	



Magnitude Err Nsta Author OrigID  
 mb 4.7 BGR 1227007

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	50.01		P	00:57:59.145	-0.1	207.2		7.43		TAS		8.0	1.12	m_e	mb 4.6
CLL	54.03		P	00:58:29.357		207.2		7.43		TAS		9.0	1.44	m_e	mb 4.6
FUR	50.73		P	00:58:04.650	-0.5	207.2		7.43		TAS		18.6	1.03	m_e	mb 5.0
GEC2	52.11		P	00:58:15.088	0.2	207.2		7.43		TAS		10.6	1.03	m_e	mb 4.7
GRA1	52.07		P	00:58:14.074		207.2		7.43		TAS		6.2	1.05	m_e	mb 4.5
GTTG	53.38		P	00:58:24.170		207.2		7.43		TAS		18.8	1.39	m_e	mb 4.8
MOX	53.03		P	00:58:21.123		207.2		7.43		TAS		7.7	1.29	m_e	mb 4.5
RJOB	50.85		P	00:58:04.831	-0.1	207.2		7.43		TAS		6.2	0.89	m_e	mb 4.5
ROTZ	52.43		P	00:58:17.354	-0.0	207.2		7.43		TAS		7.6	1.33	m_e	mb 4.5
RUE	55.29		P	00:58:38.412		207.2		7.43		TAS		10.0	0.60	m_e	mb 5.0
STU	50.65		P	00:58:04.375	0.1	207.2		7.43		TAS		8.7	0.92	m_e	mb 4.7
WET	52.10		P	00:58:14.622	-0.0	207.2		7.43		TAS		9.1	1.11	m_e	mb 4.6

Event 1227002 Trinidad  
 Date Time Err RMS Latitude Longitude Smaj Smin Az Depth Err Ndef Nsta Gap mdist Mdist Qual Author  
 OrigID  
 2010/12/27 01:00:16.49 10.5100 -60.7100 51.3 3.5 20 67.12 72.23 m i ke BGR  
 1227008

Magnitude Err Nsta Author OrigID  
 mb 5.1 BGR 1227008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	67.87		P	01:11:10.735	0.3	262.6		6.15		TAS		17.3	0.85	m_e	mb 5.3
AHRW	67.87		pP	01:11:24.285						T__				m_e	
BFO	68.30		P	01:11:12.703	-0.3	262.6		6.15		TAS		6.5	1.42	m_e	mb 4.7
BRG	72.23		P	01:11:36.849		262.6		6.15		TAS		13.7	1.16	m_e	mb 5.0
BRG	72.23		pP	01:11:51.614						T__				m_e	
BSEG	70.41		P	01:11:25.806	0.4	262.6		6.15		TAS		18.5	1.13	m_e	mb 5.1
BSEG	70.41		pP	01:11:40.634						T__				m_e	
BUG	68.15		P	01:11:11.656	-0.5	262.6		6.15		TAS		47.0	1.56	m_e	mb 5.5
CLL	71.69		P	01:11:33.856	-0.2	262.6		6.15		TAS		11.6	1.17	m_e	mb 4.9
CLL	71.69		pP	01:11:48.171						T__				m_e	
CLZ	70.13		P	01:11:24.496	0.2	262.6		6.15		TAS		13.2	1.08	m_e	mb 5.0
CLZ	70.13		pP	01:11:38.813						T__				m_e	
GEC2	71.90		P	01:11:34.952	-0.4	262.6		6.15		TAS		20.1	1.04	m_e	mb 5.2
GRA1	70.37		P	01:11:26.234	0.0	262.6		6.15		TAS		21.1	1.40	m_e	mb 5.1
GTTG	69.83		P	01:11:22.693	0.2	262.6		6.15		TAS		11.5	0.98	m_e	mb 5.0
IBBN	68.61		P	01:11:14.706	-0.2	262.6		6.15		TAS		25.3	0.98	m_e	mb 5.4
MOX	70.74		P	01:11:28.140	0.3	262.6		6.15		TAS		16.4	1.54	m_e	mb 4.9
NRDL	70.06		P	01:11:24.296	0.4	262.6		6.15		TAS		20.0	1.11	m_e	mb 5.2

RJOB	71.20	P	01:11:30.842	-0.1	262.6	6.15	TAS	15.2	1.11	m_e	mb	5.0
ROTZ	71.02	P	01:11:30.112	0.1	262.6	6.15	TAS	11.0	1.39	m_e	mb	4.8
STU	68.93	P	01:11:16.703	-0.2	262.6	6.15	TAS	26.0	0.90	m_e	mb	5.5
STU	68.93	pP	01:11:31.218				T__				m_e	
TANN	71.25	P	01:11:31.099	0.0	262.6	6.15	TAS	10.5	1.15	m_e	mb	4.9
TANN	71.25	pP	01:11:46.015				T__				m_e	
TNS	68.67	P	01:11:15.423	0.0	262.6	6.15	TAS	17.4	0.77	m_e	mb	5.4
WET	71.39	P	01:11:32.055	-0.1	262.6	6.15	TAS	9.9	1.11	m_e	mb	4.8
WLF	67.12	P	01:11:05.917	0.1	262.6	6.15	TAS	20.4	1.02	m_e	mb	5.3

Event 1227003 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	01:51:22.79			-20.8000	167.9400				16.2	2.7		12		145.25	148.01	m i ke	BGR
	1227009																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.01		PKPbc	02:11:06.930		40.5		3.00		TAS				m_e	
BFO	148.01		pPKPbc	02:11:12.121						T__				m_e	
FUR	146.87		PKPbc	02:11:03.989		40.5		3.00		TAS				m_e	
GEC2	145.25		PKPbc	02:10:59.043	0.1	40.5		3.00		TAS				m_e	
GRA1	145.75		PKPbc	02:11:00.401		40.5		3.00		TAS				m_e	
GRB3	145.76		PKPbc	02:11:00.526		40.5		3.00		TAS				m_e	
GRB3	145.76		pPKPbc	02:11:04.564						T__				m_e	
GRC1	146.14		PKPbc	02:11:01.385		40.5		3.00		TAS				m_e	
GRC1	146.14		pPKPbc	02:11:06.364						T__				m_e	
GRC2	146.30		PKPbc	02:11:01.528		40.5		3.00		TAS				m_e	
GRC2	146.30		pPKPbc	02:11:06.735						T__				m_e	
RJOB	146.46		PKPbc	02:11:02.518		40.5		3.00		TAS				m_e	
ROTZ	145.27		PKPbc	02:10:58.909	0.2	40.5		3.00		TAS				m_e	
STU	147.31		PKPbc	02:11:05.192		40.5		3.00		TAS				m_e	
TNS	146.46		PKPbc	02:11:02.251		40.5		3.00		TAS				m_e	
WLF	147.76		PKPbc	02:11:06.607		40.5		3.00		TAS				m_e	

Event 1227005 Ryukyu Islands, Japan

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	04:19:55.07			29.2340	130.9900				33.0					82.87	85.26	m i ke	BGR
	1227011																

Magnitude Err Nsta Author OrigID

mb 4.9 BGR 1227011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	82.87		P	04:32:14.327		55.4		4.77		TAS				m_e	
CLL	83.06		P	04:32:14.912		55.4		4.77		TAS		8.6	0.62	m_e mb	5.1
CLZ	83.98		P	04:32:20.361		55.4		4.77		TAS		8.8	0.97	m_e mb	5.0
FLT1	83.26		P	04:32:16.020		55.4		4.77		TAS		6.7	0.79	m_e mb	4.9
GEC2	84.26		P	04:32:21.972		55.4		4.77		TAS		2.2	0.94	m_e mb	4.4
GRA1	84.97		P	04:32:26.108		55.4		4.77		TAS		10.8	0.81	m_e mb	5.1
GUNZ	83.99		P	04:32:20.639		55.4		4.77		TAS		3.1	0.71	m_e mb	4.6
HKWD	83.73		P	04:32:18.980		55.4		4.77		TAS				m_e	
NEUB	83.73		P	04:32:19.201		55.4		4.77		TAS		8.4	0.67	m_e mb	5.1
OBKA	85.26		P	04:32:27.383		55.4		4.77		TAS				m_e	
ROHR	84.08		P	04:32:21.003		55.4		4.77		TAS				m_e	
ROTZ	84.43		P	04:32:22.956		55.4		4.77		TAS		6.9	0.98	m_e mb	4.8
SCHD	84.43		P	04:32:22.651		55.4		4.77		TAS				m_e	
TAUT	83.90		P	04:32:19.727		55.4		4.77		TAS				m_e	
TRIB	84.09		P	04:32:20.815		55.4		4.77		TAS				m_e	
WERD	83.95		P	04:32:20.291		55.4		4.77		TAS				m_e	
WERN	84.02		P	04:32:20.824		55.4		4.77		TAS				m_e	
WET	84.49		P	04:32:23.409		55.4		4.77		TAS				m_e	
WIMM	83.65		P	04:32:18.012		55.4		4.77		TAS				m_e	

Event 1227006 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	06:41:50.36			-21.8360	-177.0010				92.8	0.6		16		149.36	152.98	m i ke	BGR
	1227012																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	149.78		PKPbc	07:01:29.192	0.1	9.7		2.60		TAS				m_e	
BRG	149.78		pPKPbc	07:01:54.548	0.7					T__				m_e	
BUG	150.26		PKPbc	07:01:29.615	0.2	9.7		2.60		TAS				m_e	
BUG	150.26		PKPab	07:01:35.607						T__				m_e	
CLL	149.57		PKPbc	07:01:28.453	-0.1	9.7		2.60		TAS				m_e	
CLL	149.57		pPKPbc	07:01:54.016	0.7					T__				m_e	
CLZ	149.51		PKPbc	07:01:26.870	0.2	9.7		2.60		TAS				m_e	
FUR	152.91		PKPbc	07:01:36.709		9.7		2.60		TAS				m_e	
GEC2	151.73		PKPbc	07:01:33.626		9.7		2.60		TAS				m_e	
GTTG	149.85		PKPbc	07:01:29.087	0.1	9.7		2.60		TAS				m_e	
GUNZ	150.60		PKPbc	07:01:31.030	-0.3	9.7		2.60		TAS				m_e	
IBBN	149.36		PKPbc	07:01:26.448	0.3	9.7		2.60		TAS				m_e	
MOX	150.46		PKPbc	07:01:30.459	0.0	9.7		2.60		TAS				m_e	
NEUB	149.91		PKPbc	07:01:29.198	-0.2	9.7		2.60		TAS				m_e	

PLN	150.51	PKPbc	07:01:30.599	-0.0	9.7	2.60	TAS	m_e
RJOB	152.98	PKPbc	07:01:37.775		9.7	2.60	TAS	m_e
RJOB	152.98	PKPab	07:01:50.840				T__	m_e
ROHR	150.72	PKPbc	07:01:32.539		9.7	2.60	TAS	m_e
ROTZ	151.19	PKPbc	07:01:32.353		9.7	2.60	TAS	m_e
TANN	150.52	PKPbc	07:01:30.881	-0.1	9.7	2.60	TAS	m_e
TANN	150.52	pPKPbc	07:01:56.445	0.7			T__	m_e
TAUT	150.12	PKPbc	07:01:29.845	-0.3	9.7	2.60	TAS	m_e
TRIB	150.65	PKPbc	07:01:31.138		9.7	2.60	TAS	m_e
WERD	150.52	PKPbc	07:01:30.815	0.4	9.7	2.60	TAS	m_e
WERN	150.66	PKPbc	07:01:31.569		9.7	2.60	TAS	m_e
WET	151.64	PKPbc	07:01:33.520		9.7	2.60	TAS	m_e
WET	151.64	PKPab	07:01:44.478				T__	m_e
WIMM	149.64	PKPbc	07:01:28.660	-0.1	9.7	2.60	TAS	m_e

Event 1227007 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	09:00:20.15		0.82	-21.1810	168.8120				33.0			7	207	145.98	148.71	m i ke	BGR
	1227013																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.71		PKPbc	09:20:03.876		40.0		3.00		TAS					m_e
GEC2	145.99		PKPbc	09:19:56.155		40.0		3.00		TAS					m_e
GRA1	146.46		PKPbc	09:19:57.267		40.0		3.00		TAS					m_e
RJOB	147.20		PKPbc	09:19:59.885		40.0		3.00		TAS					m_e
ROTZ	145.98		PKPbc	09:19:55.946		40.0		3.00		TAS					m_e
TNS	147.13		PKPbc	09:19:59.336		40.0		3.00		TAS					m_e
WLF	148.42		PKPbc	09:20:03.804		40.0		3.00		TAS					m_e

Event 1227008 Western Indian-Antarctic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	15:27:26.90		0.42	-50.8300	139.1700				10.0			19	273	145.44	150.24	m i ke	NEIC
	1227070																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	150.06		PKPbc	15:47:17.040		112.3		2.60		TAS					m_e
ASSE	148.45		PKPbc	15:47:12.980		112.3		2.60		TAS					m_e

BRG	146.09	PKPbc	15:47:07.091	0.2	112.3		2.60	TAS	m_e
BSEG	149.18	PKPbc	15:47:15.416		112.3		2.60	TAS	m_e
BUG	150.24	PKPbc	15:47:17.348		112.3		2.60	TAS	m_e
CLL	146.81	PKPbc	15:47:08.539	-0.2	112.3		2.60	TAS	m_e
CLZ	148.53	PKPbc	15:47:13.285		112.3		2.60	TAS	m_e
FUR	146.63	PKPbc	15:47:08.094	0.3	112.3		2.60	TAS	m_e
GEC2	145.44	PKPbc	15:47:04.471	-0.3	112.3		2.60	TAS	m_e
GRA1	147.27	PKPbc	15:47:08.403	-0.2	112.3		2.60	TAS	m_e
GTTG	148.68	PKPbc	15:47:13.307		112.3		2.60	TAS	m_e
GUNZ	146.86	PKPbc	15:47:09.090	-1.2	112.3		2.60	TAS	m_e
MANZ	146.85	PKPbc	15:47:09.126	0.6	112.3		2.60	TAS	m_e
MOX	147.39	PKPbc	15:47:10.504	-0.1	112.3		2.60	TAS	m_e
NEUB	147.49	PKPbc	15:47:10.274	-0.2	112.3		2.60	TAS	m_e
NRDL	148.89	PKPbc	15:47:14.207		112.3		2.60	TAS	m_e
RJOB	145.52	PKPbc	15:47:04.335	-0.6	112.3		2.60	TAS	m_e
ROTZ	146.71	PKPbc	15:47:08.533	0.4	112.3		2.60	TAS	m_e
WET	146.06	PKPbc	15:47:06.776	0.4	112.3		2.60	TAS	m_e

Event 1227011 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	16:43:50.96		0.80	-19.9280	168.0810				35.6	1.0		10	199	144.23	147.29	m i ke	BGR
1227017																	

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	145.95		PKPbc	17:03:27.567		40.1		3.27		TAS				m_e	
BFO	147.29		PKPbc	17:03:30.011		40.1		3.27		TAS				m_e	
BFO	147.29		pPKPbc	17:03:40.910						T__				m_e	
BUG	145.12		PKPbc	17:03:22.902		40.1		3.27		TAS				m_e	
FUR	146.17		PKPbc	17:03:27.234		40.1		3.27		TAS				m_e	
FUR	146.17		pPKPbc	17:03:37.648						T__				m_e	
GEC2	144.57		PKPbc	17:03:22.138		40.1		3.27		TAS				m_e	
GRA1	145.03		PKPbc	17:03:23.235	-0.5	40.1		3.27		TAS				m_e	
IBBN	144.23		PKPbc	17:03:21.014		40.1		3.27		TAS				m_e	
RJOB	145.78		PKPbc	17:03:25.679		40.1		3.27		TAS				m_e	
STU	146.59		PKPbc	17:03:28.234		40.1		3.27		TAS				m_e	
STU	146.59		pPKPbc	17:03:38.796						T__				m_e	
TNS	145.72		PKPbc	17:03:25.568		40.1		3.27		TAS				m_e	
TNS	145.72		pPKPbc	17:03:36.088						T__				m_e	
WLF	147.01		PKPbc	17:03:29.906		40.1		3.27		TAS				m_e	
WLF	147.01		pPKPbc	17:03:40.878						T__				m_e	

Event 1227012 Western Indian-Antarctic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/27	17:02:40.14		0.80	-50.2980	138.9890				10.0				20	199	145.16	149.94	m i ke	BGR
OrigID 1227018																		

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1227018
Ms	5.3		BGR	1227018

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.78		PKPbc	17:22:24.251	0.1	112.9		2.67		TAS				m_e	
BFO	148.24		PKPbc	17:22:19.947	-0.1	112.9		2.67		TAS				m_e	
BRG	145.79		PKPbc	17:22:13.783	0.0	112.9		2.67		TAS				m_e	
BSEG	148.84		PKPbc	17:22:22.041	-0.4	112.9		2.67		TAS				m_e	
BUG	149.94		PKPbc	17:22:24.483	-0.2	112.9		2.67		TAS				m_e	
CLL	146.49		PKPbc	17:22:15.527	-0.1	112.9		2.67		TAS				m_e	
CLZ	148.22		PKPbc	17:22:20.412	0.2	112.9		2.67		TAS				m_e	
FUR	146.37		PKPbc	17:22:15.178	0.1	112.9		2.67		TAS				m_e	
GEC2	145.16		PKPbc	17:22:11.456	-0.4	112.9		2.67		TAS				m_e	
GRA1	146.99		PKPbc	17:22:17.156	0.4	112.9		2.67		TAS				m_e	
GRA1	146.99		L	18:31:55.101						T__		530.3	21.70	a_e Ms	5.3
GTTG	148.37		PKPbc	17:22:20.529	-0.1	112.9		2.67		TAS				m_e	
IBBN	149.90		PKPbc	17:22:24.600	-0.1	112.9		2.67		TAS				m_e	
MOX	147.09		PKPbc	17:22:17.272	0.2	112.9		2.67		TAS				m_e	
MOX	147.09		L	18:34:00.496						T__		504.6	21.00	a_e Ms	5.3
NRDL	148.57		PKPbc	17:22:21.459	0.1	112.9		2.67		TAS				m_e	
RJOB	145.26		PKPbc	17:22:11.573	-0.5	112.9		2.67		TAS				m_e	
ROTZ	146.42		PKPbc	17:22:15.644	0.4	112.9		2.67		TAS				m_e	
STU	147.88		PKPbc	17:22:19.028	-0.1	112.9		2.67		TAS				m_e	
TANN	146.50		PKPbc	17:22:15.876	0.3	112.9		2.67		TAS				m_e	
TNS	148.85		PKPbc	17:22:21.808	0.1	112.9		2.67		TAS				m_e	
WET	145.78		PKPbc	17:22:13.434	-0.1	112.9		2.67		TAS				m_e	

Event 1227013 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/27	19:40:17.57		0.80	-20.5050	169.2530				35.6	1.5			16	199	144.65	148.27	m i ke	BGR
OrigID 1227019																		

Magnitude	Err	Nsta	Author	OrigID
Ms	5.0		BGR	1227019

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.88		PKPbc	19:59:51.126	-0.5	38.8		3.22		TAS				m_e	



BFO	148.27	PKPbc	19:59:54.762		38.8	3.22	TAS										m_e
BFO	148.27	pPKPbc	20:00:05.870	0.3			T__										m_e
BUG	146.05	PKPbc	19:59:48.965	0.0	38.8	3.22	TAS										m_e
CLZ	144.65	PKPbc	19:59:43.932	-0.3	38.8	3.22	TAS										m_e
FUR	147.19	PKPbc	19:59:51.893		38.8	3.22	TAS										m_e
FUR	147.19	pPKPbc	20:00:02.338	0.3			T__										m_e
GEC2	145.60	PKPbc	19:59:46.861	-0.3	38.8	3.22	TAS										m_e
GEC2	145.60	pPKPbc	19:59:57.406	0.3			T__										m_e
GRA1	146.03	PKPbc	19:59:48.142	0.1	38.8	3.22	TAS										m_e
GRA1	146.03	L	21:15:35.993				T__			274.0	18.90	a_e	Ms				5.1
GTTG	145.04	PKPbc	19:59:44.481	0.1	38.8	3.22	TAS										m_e
IBBN	145.15	PKPbc	19:59:45.245	0.1	38.8	3.22	TAS										m_e
MOX	145.13	PKPbc	19:59:44.664	0.6	38.8	3.22	TAS										m_e
MOX	145.13	L	21:03:56.545				T__			273.0	19.60	a_e	Ms				5.0
RJOB	146.83	PKPbc	19:59:50.429	0.1	38.8	3.22	TAS										m_e
RJOB	146.83	pPKPbc	20:00:01.251	0.3			T__										m_e
ROTZ	145.57	PKPbc	19:59:46.586	0.5	38.8	3.22	TAS										m_e
STU	147.58	PKPbc	19:59:52.992		38.8	3.22	TAS										m_e
STU	147.58	pPKPbc	20:00:03.765	0.3			T__										m_e
TANN	144.97	PKPbc	19:59:44.298	0.1	38.8	3.22	TAS										m_e
WET	145.75	PKPbc	19:59:47.776	0.1	38.8	3.22	TAS										m_e
WET	145.75	pPKPbc	19:59:58.037	0.3			T__										m_e
WLF	147.94	PKPbc	19:59:54.547		38.8	3.22	TAS										m_e
WLF	147.94	pPKPbc	20:00:05.262	0.3			T__										m_e

Event 1227014 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author	
2010/12/27	20:33:18.17		0.80	-20.6750	168.8770				33.0				9	199	144.96	148.28	m i ke	BGR
	1227020																	

Magnitude Err Nsta Author

OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	20:53:00.290		39.5		3.17		TAS					m_e
GRA1	146.03		PKPbc	20:52:54.030		39.5		3.17		TAS					m_e
GRA1	146.03		X1	20:53:05.897						T__					m_e
GRA1	146.03		X2	20:53:16.268						T__					m_e
GTTG	145.06		PKPbc	20:52:50.444	0.0	39.5		3.17		TAS					m_e
MOX	145.13		PKPbc	20:52:50.576	-0.4	39.5		3.17		TAS					m_e
ROTZ	145.56		PKPbc	20:52:52.348		39.5		3.17		TAS					m_e
STU	147.58		PKPbc	20:52:58.515		39.5		3.17		TAS					m_e
TANN	144.96		PKPbc	20:52:49.825	0.2	39.5		3.17		TAS					m_e
TNS	146.69		PKPbc	20:52:55.992		39.5		3.17		TAS					m_e
WLF	147.97		PKPbc	20:53:00.103		39.5		3.17		TAS					m_e

Event 1227015 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	21:04:46.39		0.80	-20.7000	168.8230				33.0			8	199	145.06	147.98	m i ke	BGR
OrigID 1227021																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.03		PKPbc	21:24:22.251		39.6		3.22		TAS					m_e
GTTG	145.06		PKPbc	21:24:18.251	0.0	39.6		3.22		TAS					m_e
IBBN	145.19		PKPbc	21:24:19.483		39.6		3.22		TAS					m_e
MOX	145.13		PKPbc	21:24:18.825	-0.0	39.6		3.22		TAS					m_e
RJOB	146.79		PKPbc	21:24:23.988		39.6		3.22		TAS					m_e
ROTZ	145.56		PKPbc	21:24:20.311		39.6		3.22		TAS					m_e
STU	147.58		PKPbc	21:24:26.716		39.6		3.22		TAS					m_e
WLF	147.98		PKPbc	21:24:28.201		39.6		3.22		TAS					m_e

Event 1228001 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/27	23:53:09.45			-21.0000	168.1810				33.0			15		144.96	148.29	m i ke	BGR
OrigID 1228007																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.97		PKPbc	00:12:48.789		40.8		3.21		TAS					m_e
BFO	148.29		PKPbc	00:12:51.570		40.8		3.21		TAS					m_e
FUR	147.15		PKPbc	00:12:48.622		40.8		3.21		TAS					m_e
GEC2	145.54		PKPbc	00:12:42.966	0.6	40.8		3.21		TAS					m_e
GRA1	146.03		PKPbc	00:12:45.314	0.1	40.8		3.21		TAS					m_e
GTTG	145.09		PKPbc	00:12:41.800	-0.1	40.8		3.21		TAS					m_e
IBBN	145.26		PKPbc	00:12:42.369	-0.0	40.8		3.21		TAS					m_e
MOX	145.14		PKPbc	00:12:42.055	0.5	40.8		3.21		TAS					m_e
RJOB	146.75		PKPbc	00:12:47.413		40.8		3.21		TAS					m_e
ROTZ	145.55		PKPbc	00:12:43.587	0.1	40.8		3.21		TAS					m_e
STU	147.59		PKPbc	00:12:49.936		40.8		3.21		TAS					m_e
TANN	144.96		PKPbc	00:12:41.585	-0.5	40.8		3.21		TAS					m_e
TNS	146.73		PKPbc	00:12:47.176	-0.5	40.8		3.21		TAS					m_e
WET	145.71		PKPbc	00:12:43.723	0.1	40.8		3.21		TAS					m_e
WLF	148.03		PKPbc	00:12:51.514		40.8		3.21		TAS					m_e

Event 1228002 New Caledonia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	02:04:10.50			-23.4140	168.5530				33.0			12		147.89	150.59	m i ke	BGR
OrigID 1228008																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	149.32		PKPbc	02:23:56.975	0.5	42.3		2.75		TAS					m_e
ARSA	147.89		PKPbc	02:23:53.083	0.3	42.3		2.75		TAS					m_e
BFO	150.59		PKPbc	02:23:59.329	-0.4	42.3		2.75		TAS					m_e
FUR	149.41		PKPbc	02:23:56.816	0.3	42.3		2.75		TAS					m_e
GRA1	148.32		PKPbc	02:23:52.982	-0.5	42.3		2.75		TAS					m_e
KBA	149.14		PKPbc	02:23:55.818	-0.2	42.3		2.75		TAS					m_e
MOA	148.16		PKPbc	02:23:53.678	0.4	42.3		2.75		TAS					m_e
OBKA	148.87		PKPbc	02:23:55.296	-0.3	42.3		2.75		TAS					m_e
RJOB	148.97		PKPbc	02:23:55.253	-0.2	42.3		2.75		TAS					m_e
STU	149.89		PKPbc	02:23:58.276	0.5	42.3		2.75		TAS					m_e
TNS	149.06		PKPbc	02:23:54.917	-0.7	42.3		2.75		TAS					m_e
WLF	150.38		PKPbc	02:23:59.404	0.1	42.3		2.75		TAS					m_e

Event 1228003 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	02:20:31.61			-20.8000	167.4200				34.4	0.5		9		145.01	147.80	m i ke	BGR
OrigID 1228009																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.51		PKPbc	02:40:08.872		41.1		3.09		TAS					m_e
BFO	147.80		PKPbc	02:40:12.493		41.1		3.09		TAS					m_e
FUR	146.63		PKPbc	02:40:09.164		41.1		3.09		TAS					m_e
FUR	146.63		pPKPbc	02:40:19.411						T__					m_e
GEC2	145.01		PKPbc	02:40:04.365		41.1		3.09		TAS					m_e
GRA1	145.53		PKPbc	02:40:05.432	-0.1	41.1		3.09		TAS					m_e
RJOB	146.21		PKPbc	02:40:07.853		41.1		3.09		TAS					m_e
RJOB	146.21		pPKPbc	02:40:18.223						T__					m_e
STU	147.09		PKPbc	02:40:10.476		41.1		3.09		TAS					m_e
STU	147.09		pPKPbc	02:40:20.682						T__					m_e
TNS	146.26		PKPbc	02:40:07.752		41.1		3.09		TAS					m_e
TNS	146.26		pPKPbc	02:40:18.192						T__					m_e

WLF 147.57 PKPbc 02:40:12.190 41.1 3.09 TAS m\_e  
 WLF 147.57 pPKPbc 02:40:22.450 T\_\_ m\_e

Event 1228005 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	03:54:39.11		0.83	27.1870	143.3120				33.0				199	92.42	92.42	m i ke	BGR

Magnitude Err Nsta Author OrigID  
 mb 5.2 BGR 1228011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.42		P	04:07:45.528		48.8		3.43		TAS		19.2	1.67	m_e mb	5.2

Event 1228006 Bonin Islands, Japan, region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	03:56:21.50		0.83	27.3590	143.0880				33.0				199	92.17	92.17	m i ke	BGR

Magnitude Err Nsta Author OrigID  
 mb 5.2 BGR 1228012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	92.17		P	04:09:26.770		44.8		3.13		TAS		13.8	1.12	m_e mb	5.2

Event 1228008 South of Fiji Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	08:34:17.09		0.60	-23.6700	-178.8920				558.6	9.3		19	201	148.99	154.73	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	152.78		SKKSac	09:02:53.817	0.5	20.0		5.77		TAS				a_e	
AHRW	152.78		SS	09:15:42.544	-0.8	22.3		10.90		TAS				a_e	
AHRW	152.78		PKPdf	08:53:04.046	0.1	22.4		1.44		TAS				m_e	
AHRW	152.78		PKPbc	08:53:10.938	-0.1	20.6		2.22		TAS				m_e	

AHRW	152.78	PKPab	08:53:23.937	-0.3	18.9	4.26	TAS	m_e
BFO	154.73	SKKSac	09:03:03.117		20.0	5.77	TAS	a_e
BFO	154.73	SS	09:16:02.844		22.3	10.90	TAS	a_e
BFO	154.73	PKPdf	08:53:06.105	-0.4	22.4	1.44	TAS	m_e
BFO	154.73	PKPbc	08:53:14.897	-0.3	20.6	2.22	TAS	m_e
BFO	154.73	PKPab	08:53:31.988		18.9	4.26	TAS	m_e
BRG	151.07	SKKSac	09:02:41.767	-0.3	20.0	5.77	TAS	a_e
BRG	151.07	SS	09:15:22.594	0.3	22.3	10.90	TAS	a_e
BRG	151.07	PKPdf	08:53:01.057	-0.1	22.4	1.44	TAS	m_e
BRG	151.07	PKPbc	08:53:07.199	0.2	20.6	2.22	TAS	m_e
BSEG	148.99	SKKSac	09:02:30.617	0.1	20.0	5.77	TAS	a_e
BSEG	148.99	SS	09:15:02.044	1.0	22.3	10.90	TAS	a_e
BSEG	148.99	PKPdf	08:52:58.137	-0.2	22.4	1.44	TAS	m_e
BSEG	148.99	PKPbc	08:53:02.005	-0.5	20.6	2.22	TAS	m_e
BSEG	148.99	PKPab	08:53:08.000	0.3	18.9	4.26	TAS	m_e
BUG	151.87	SKKSac	09:02:46.967	0.7	20.0	5.77	TAS	a_e
BUG	151.87	SS	09:15:34.394	0.8	22.3	10.90	TAS	a_e
BUG	151.87	PKPdf	08:53:02.483	-0.1	22.4	1.44	TAS	m_e
BUG	151.87	PKPbc	08:53:08.812	-0.2	20.6	2.22	TAS	m_e
BUG	151.87	pPKPbc	08:55:17.729	0.2			T__	m_e
CLL	150.92	SKKSac	09:02:41.217	-0.3	20.0	5.77	TAS	a_e
CLL	150.92	SS	09:15:19.444	-1.2	22.3	10.90	TAS	m_e
CLL	150.92	PKPdf	08:53:00.919	0.0	22.4	1.44	TAS	m_e
CLL	150.92	PKPbc	08:53:06.612	0.0	20.6	2.22	TAS	m_e
CLL	150.92	PKPab	08:53:15.581	-0.4	18.9	4.26	TAS	m_e
CLZ	150.99	SKKSac	09:02:41.967	-0.8	20.0	5.77	TAS	a_e
CLZ	150.99	SS	09:15:22.094	-0.0	22.3	10.90	TAS	a_e
CLZ	150.99	PKPdf	08:53:01.455	0.3	22.4	1.44	TAS	m_e
CLZ	150.99	PKPbc	08:53:07.199	0.4	20.6	2.22	TAS	m_e
CLZ	150.99	PKPab	08:53:16.282	0.1	18.9	4.26	TAS	m_e
FUR	154.25	SKKSac	09:02:59.867	-0.4	20.0	5.77	TAS	a_e
FUR	154.25	PKPdf	08:53:05.436	-0.3	22.4	1.44	TAS	m_e
FUR	154.25	PKPbc	08:53:13.811	-0.2	20.6	2.22	TAS	m_e
FUR	154.25	PKPab	08:53:30.476		18.9	4.26	TAS	m_e
GEC2	152.97	SKKSac	09:02:52.967	-0.6	20.0	5.77	TAS	a_e
GEC2	152.97	SS	09:15:43.444	0.3	22.3	10.90	TAS	a_e
GEC2	152.97	PKPdf	08:53:03.871	-0.0	22.4	1.44	TAS	m_e
GEC2	152.97	PKPbc	08:53:11.304	0.0	20.6	2.22	TAS	m_e
GEC2	152.97	PKPab	08:53:24.806	0.1	18.9	4.26	TAS	m_e
GRA1	152.84	SKKSac	09:02:53.067	0.8	20.0	5.77	TAS	a_e
GRA1	152.84	SS	09:15:42.144	0.5	22.3	10.90	TAS	a_e
GRA1	152.84	PKPdf	08:53:03.973	0.3	22.4	1.44	TAS	m_e
GRA1	152.84	PKPbc	08:53:11.085	0.2	20.6	2.22	TAS	m_e
GRA1	152.84	PKPab	08:53:24.355	0.1	18.9	4.26	TAS	m_e
GTTG	151.34	SKKSac	09:02:43.717	0.5	20.0	5.77	TAS	a_e
GTTG	151.34	SS	09:15:24.294	-1.8	22.3	10.90	TAS	a_e
GTTG	151.34	PKPdf	08:53:01.610	-0.0	22.4	1.44	TAS	m_e
GTTG	151.34	PKPbc	08:53:07.859	0.2	20.6	2.22	TAS	m_e
GTTG	151.34	PKPab	08:53:17.623	-0.0	18.9	4.26	TAS	m_e

IBBN	150.96	SS	09:15:23.244	-0.3	22.3	10.90	TAS	a_e
IBBN	150.96	PKPdf	08:53:01.146	-0.2	22.4	1.44	TAS	m_e
IBBN	150.96	PKPbc	08:53:07.125	0.1	20.6	2.22	TAS	m_e
IBBN	150.96	PKPab	08:53:16.243	-0.0	18.9	4.26	TAS	m_e
MOX	151.86	SKKSac	09:02:47.417	-0.6	20.0	5.77	TAS	a_e
MOX	151.86	SS	09:15:31.794	0.8	22.3	10.90	TAS	a_e
MOX	151.86	PKPdf	08:53:02.238	-0.1	22.4	1.44	TAS	m_e
MOX	151.86	PKPbc	08:53:08.958	0.3	20.6	2.22	TAS	m_e
MOX	151.86	PKPab	08:53:19.870	0.1	18.9	4.26	TAS	m_e
NRDL	150.41	SKKSac	09:02:37.317	-1.4	20.0	5.77	TAS	a_e
NRDL	150.41	SS	09:15:15.994	-0.2	22.3	10.90	TAS	a_e
NRDL	150.41	PKPdf	08:53:00.126	-0.2	22.4	1.44	TAS	m_e
NRDL	150.41	PKPbc	08:53:05.061	-0.5	20.6	2.22	TAS	m_e
NRDL	150.41	PKPab	08:53:13.444	-0.3	18.9	4.26	TAS	m_e
RJOB	154.24	SKKSac	09:03:00.167	-0.9	20.0	5.77	TAS	a_e
RJOB	154.24	PKPdf	08:53:05.448	-0.3	22.4	1.44	TAS	m_e
RJOB	154.24	PKPbc	08:53:13.514	-0.6	20.6	2.22	TAS	m_e
RJOB	154.24	PKPab	08:53:30.555	-0.1	18.9	4.26	TAS	m_e
ROTZ	152.54	SKKSac	09:02:53.767	1.0	20.0	5.77	TAS	a_e
ROTZ	152.54	SS	09:15:38.244	0.0	22.3	10.90	TAS	a_e
ROTZ	152.54	PKPdf	08:53:03.393	0.1	22.4	1.44	TAS	m_e
ROTZ	152.54	PKPbc	08:53:10.425	0.2	20.6	2.22	TAS	m_e
ROTZ	152.54	PKPab	08:53:23.172	-0.1	18.9	4.26	TAS	m_e
STU	154.15	SKKSac	09:03:00.267	-0.8	20.0	5.77	TAS	a_e
STU	154.15	SS	09:15:56.044	-0.3	22.3	10.90	TAS	a_e
STU	154.15	PKPdf	08:53:05.905	0.3	22.4	1.44	TAS	m_e
STU	154.15	PKPbc	08:53:13.871	0.1	20.6	2.22	TAS	m_e
STU	154.15	PKPab	08:53:29.540	0.2	18.9	4.26	TAS	m_e
STU	154.15	pPKPbc	08:55:24.341	0.2			T__	m_e
TANN	151.88	SKKSac	09:02:47.717	2.9	20.0	5.77	TAS	a_e
TANN	151.88	SS	09:15:31.094	0.1	22.3	10.90	TAS	a_e
TANN	151.88	PKPdf	08:53:02.440	0.1	22.4	1.44	TAS	m_e
TANN	151.88	PKPbc	08:53:08.812	0.1	20.6	2.22	TAS	m_e
TANN	151.88	PKPab	08:53:20.173	0.3	18.9	4.26	TAS	m_e
TNS	152.88	SKKSac	09:02:53.817	0.2	20.0	5.77	TAS	m_e
TNS	152.88	SS	09:15:43.694	0.3	22.3	10.90	TAS	a_e
TNS	152.88	PKPdf	08:53:03.890	-0.0	22.4	1.44	TAS	m_e
TNS	152.88	PKPbc	08:53:11.085	-0.0	20.6	2.22	TAS	m_e
TNS	152.88	PKPab	08:53:24.109	-0.1	18.9	4.26	TAS	m_e
TNS	152.88	pPKPbc	08:55:18.751	0.2			T__	m_e
WET	152.94	SKKSac	09:02:53.567	-0.8	20.0	5.77	TAS	a_e
WET	152.94	SS	09:15:42.694	0.1	22.3	10.90	TAS	a_e
WET	152.94	PKPdf	08:53:04.045	0.2	22.4	1.44	TAS	m_e
WET	152.94	PKPbc	08:53:11.378	0.2	20.6	2.22	TAS	m_e
WET	152.94	PKPab	08:53:24.856	-0.2	18.9	4.26	TAS	m_e
WLF	153.75	SKKSac	09:02:57.967	0.2	20.0	5.77	TAS	a_e
WLF	153.75	SS	09:15:55.044	0.6	22.3	10.90	TAS	a_e
WLF	153.75	PKPdf	08:53:05.713	0.3	22.4	1.44	TAS	m_e
WLF	153.75	PKPbc	08:53:13.724	0.4	20.6	2.22	TAS	m_e

WLF	153.75	PKPab	08:53:28.391	0.1	18.9		4.26		TAS							m_e
WLF	153.75	pPKPbc	08:55:24.650	0.2					T__							m_e

Event 1228009 Tonga Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	16:59:13.89		0.52	-19.0670	-172.8330				33.0			20	235	145.11	151.04	m i ke	BGR
	1228015																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	148.60		PKPbc	17:18:56.964	-0.2	7.5		2.65		TAS					a_e
BFO	150.79		PKPdf	17:18:57.744						T__					m_e
BFO	150.79		PKPbc	17:19:03.230	0.3	7.5		2.65		TAS					m_e
BRG	147.81		PKPbc	17:18:54.964	0.1	7.5		2.65		TAS					a_e
BSEG	145.11		PKPbc	17:18:47.514	-0.1	7.5		2.65		TAS					a_e
BUG	147.70		PKPbc	17:18:54.464	-0.3	7.5		2.65		TAS					a_e
CLL	147.50		PKPbc	17:18:53.914	-0.1	7.5		2.65		TAS					m_e
CLZ	147.20		PKPbc	17:18:53.514	0.3	7.5		2.65		TAS					a_e
GEC2	149.83		PKPdf	17:18:54.449						T__					m_e
GEC2	149.83		PKPbc	17:18:59.714	-0.5	7.5		2.65		TAS					a_e
GRA1	149.27		PKPbc	17:18:58.814	0.2	7.5		2.65		TAS					a_e
GTTG	147.51		PKPbc	17:18:54.214	0.2	7.5		2.65		TAS					a_e
IBBN	146.82		PKPbc	17:18:52.364	0.0	7.5		2.65		TAS					a_e
MOX	148.29		PKPbc	17:18:56.114	0.1	7.5		2.65		TAS					a_e
NRDL	146.56		PKPbc	17:18:51.464	-0.0	7.5		2.65		TAS					a_e
RJOB	151.04		PKPbc	17:19:03.670		7.5		2.65		TAS					m_e
ROTZ	149.11		PKPbc	17:18:58.364	0.1	7.5		2.65		TAS					a_e
STU	150.32		PKPbc	17:19:01.014	-0.5	7.5		2.65		TAS					a_e
TANN	148.44		PKPbc	17:18:56.614	0.2	7.5		2.65		TAS					a_e
TNS	148.90		PKPbc	17:18:57.864	0.1	7.5		2.65		TAS					a_e
WET	149.64		PKPbc	17:18:59.414	-0.3	7.5		2.65		TAS					a_e
WLF	149.46		PKPdf	17:18:54.504						T__					m_e
WLF	149.46		PKPbc	17:18:59.564	0.0	7.5		2.65		TAS					a_e

Event 1228010 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	21:43:50.23		0.52	-20.3360	169.6300				34.8	2.7		16	235	144.97	148.26	m i ke	BGR
	1228016																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.85		PKPbc	22:03:28.649		38.1		3.32		TAS				m_e	
BFO	148.26		PKPbc	22:03:32.390		38.1		3.32		TAS				m_e	
BFO	148.26		pPKPbc	22:03:43.627						T__				m_e	
BUG	146.01		PKPbc	22:03:25.365	0.1	38.1		3.32		TAS				m_e	
FUR	147.20		PKPbc	22:03:29.653		38.1		3.32		TAS				m_e	
FUR	147.20		pPKPbc	22:03:39.687						T__				m_e	
GEC2	145.63		PKPbc	22:03:23.996	-0.4	38.1		3.32		TAS				m_e	
GRA1	146.03		PKPbc	22:03:25.821	0.2	38.1		3.32		TAS				m_e	
GTTG	145.02		PKPbc	22:03:22.536	0.4	38.1		3.32		TAS				m_e	
IBBN	145.11		PKPbc	22:03:22.354	0.3	38.1		3.32		TAS				m_e	
MOX	145.13		PKPbc	22:03:22.263	0.1	38.1		3.32		TAS				m_e	
RJOB	146.85		PKPbc	22:03:27.919	0.3	38.1		3.32		TAS				m_e	
ROTZ	145.58		PKPbc	22:03:24.179	-0.4	38.1		3.32		TAS				m_e	
STU	147.57		PKPbc	22:03:30.656		38.1		3.32		TAS				m_e	
STU	147.57		pPKPbc	22:03:41.002						T__				m_e	
TANN	144.97		PKPbc	22:03:21.989	-0.5	38.1		3.32		TAS				m_e	
TNS	146.65		PKPbc	22:03:27.919	-0.5	38.1		3.32		TAS				m_e	
TNS	146.65		pPKPbc	22:03:38.107						T__				m_e	
WET	145.77		PKPbc	22:03:24.726	0.3	38.1		3.32		TAS				m_e	
WET	145.77		pPKPbc	22:03:35.068						T__				m_e	
WLF	147.91		PKPbc	22:03:32.298		38.1		3.32		TAS				m_e	

Event 1228011 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/28	22:02:17.98		0.52	-20.3370	169.6310				33.0			14	235	145.12	148.26	m i ke	BGR
	1228017																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.85		PKPbc	22:21:56.378		38.1		3.25		TAS				m_e	
BFO	148.26		PKPbc	22:22:00.804		38.1		3.25		TAS				m_e	
BUG	146.01		PKPbc	22:21:54.070	0.3	38.1		3.25		TAS				m_e	
FUR	147.21		PKPbc	22:21:57.694		38.1		3.25		TAS				m_e	
GEC2	145.63		PKPbc	22:21:52.606	0.1	38.1		3.25		TAS				m_e	
GRA1	146.04		PKPbc	22:21:53.840	-0.2	38.1		3.25		TAS				m_e	
IBBN	145.12		PKPbc	22:21:51.153	-0.1	38.1		3.25		TAS				m_e	
MOX	145.13		PKPbc	22:21:50.738	-0.3	38.1		3.25		TAS				m_e	
RJOB	146.85		PKPbc	22:21:56.337		38.1		3.25		TAS				m_e	ML 3.9
ROTZ	145.58		PKPbc	22:21:52.148	-0.2	38.1		3.25		TAS				m_e	
STU	147.57		PKPbc	22:21:58.727		38.1		3.25		TAS				m_e	
TNS	146.65		PKPbc	22:21:55.720		38.1		3.25		TAS				m_e	
WET	145.77		PKPbc	22:21:53.013	0.0	38.1		3.25		TAS				m_e	



WLF 147.91 PKPbc 22:22:00.419 38.1 3.25 TAS m\_e

Event 1229001 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	04:20:38.82		0.52	-20.2660	169.7930				33.0			7	235	145.58	148.26	m i ke	BGR

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.26		PKPbc	04:40:21.247		37.8		3.07		TAS					m_e
GEC2	145.64		PKPbc	04:40:13.254		37.8		3.07		TAS					m_e
GRA1	146.04		PKPbc	04:40:14.684		37.8		3.07		TAS					m_e
RJOB	146.87		PKPbc	04:40:17.092		37.8		3.07		TAS					m_e
ROTZ	145.58		PKPbc	04:40:12.636		37.8		3.07		TAS					m_e
WET	145.78		PKPbc	04:40:13.959		37.8		3.07		TAS					m_e
WLF	147.90		PKPbc	04:40:20.402		37.8		3.07		TAS					m_e

Event 1229002 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	06:54:17.50		0.52	-20.1010	170.1710				33.6	1.6		19	235	144.02	148.25	m i ke	BGR

Magnitude Err Nsta Author OrigID

Ms 6.3 BGR 1229008

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.81		SS	07:36:20.902	-0.3	37.3		11.77		TAS					a_e
AHRW	146.81		PKPbc	07:13:56.784	-0.5	37.1		3.30		TAS					a_e
AHRW	146.81		pPKPbc	07:14:06.810						T__					m_e
BFO	148.25		SS	07:36:36.452		37.3		11.77		TAS					a_e
BFO	148.25		PKPbc	07:14:00.384		37.1		3.30		TAS					a_e
BRG	144.02		SS	07:35:47.052	-0.8	37.3		11.77		TAS					a_e
BUG	145.96		SS	07:36:09.652	-0.0	37.3		11.77		TAS					a_e
BUG	145.96		PKPbc	07:13:53.334	0.2	37.1		3.30		TAS					a_e
CLL	144.06		SS	07:35:46.602	0.1	37.3		11.77		TAS					a_e
CLZ	144.60		SS	07:35:54.652	0.8	37.3		11.77		TAS					a_e
CLZ	144.60		PKPbc	07:13:48.934	-0.4	37.1		3.30		TAS					a_e
FUR	147.22		SS	07:36:24.402	1.0	37.3		11.77		TAS					a_e
FUR	147.22		PKPbc	07:13:57.734		37.1		3.30		TAS					a_e
FUR	147.22		pPKPbc	07:14:07.864						T__					m_e

GEC2	145.66	SS	07:36:05.702	-1.7	37.3	11.77	TAS									a_e
GEC2	145.66	PKPbc	07:13:51.984	0.4	37.1	3.30	TAS									a_e
GRA1	146.04	SS	07:36:11.002	0.0	37.3	11.77	TAS									a_e
GRA1	146.04	PKPbc	07:13:53.834	0.4	37.1	3.30	TAS									a_e
GRA1	146.04	pPKPbc	07:14:03.690				T__									m_e
GRA1	146.04	PP	07:17:16.374		45.3	5.37	TAS									m_e
GRA1	146.04	L	08:15:37.511				T__	6558.3	21.90							a_e Ms 6.4
GTTG	144.99	SS	07:35:58.452	0.3	37.3	11.77	TAS									a_e
GTTG	144.99	PKPbc	07:13:50.284	-0.5	37.1	3.30	TAS									a_e
IBBN	145.06	PKPbc	07:13:50.384	0.2	37.1	3.30	TAS									a_e
IBBN	145.06	pPKPbc	07:14:00.914				T__									m_e
MOX	145.12	SS	07:36:00.202	-0.9	37.3	11.77	TAS									a_e
MOX	145.12	PKPbc	07:13:50.434	0.8	37.1	3.30	TAS									a_e
MOX	145.12	L	08:20:09.561				T__	4942.1	21.80							a_e Ms 6.2
NRDL	144.15	SS	07:35:49.352	0.4	37.3	11.77	TAS									a_e
RJOB	146.89	SS	07:36:20.452	0.5	37.3	11.77	TAS									a_e
RJOB	146.89	PKPbc	07:13:56.084	0.2	37.1	3.30	TAS									a_e
ROTZ	145.59	SS	07:36:06.602	0.6	37.3	11.77	TAS									m_e
ROTZ	145.59	PKPbc	07:13:52.334	-0.4	37.1	3.30	TAS									m_e
ROTZ	145.59	pPKPbc	07:14:02.336				T__									m_e
STU	147.57	SS	07:36:29.152	-0.4	37.3	11.77	TAS									a_e
STU	147.57	PKPbc	07:13:58.634		37.1	3.30	TAS									a_e
TANN	144.98	SS	07:35:58.902	-0.4	37.3	11.77	TAS									a_e
TANN	144.98	PKPbc	07:13:50.084	0.2	37.1	3.30	TAS									a_e
TNS	146.62	SS	07:36:18.052	-0.8	37.3	11.77	TAS									a_e
TNS	146.62	PKPbc	07:13:56.034	0.0	37.1	3.30	TAS									a_e
TNS	146.62	pPKPbc	07:14:05.827				T__									m_e
WET	145.79	SS	07:36:08.552	0.3	37.3	11.77	TAS									a_e
WET	145.79	PKPbc	07:13:53.584	-0.5	37.1	3.30	TAS									a_e
WLF	147.86	SS	07:36:34.352		37.3	11.77	TAS									a_e
WLF	147.86	PKPbc	07:14:00.134		37.1	3.30	TAS									a_e
WLF	147.86	pPKPbc	07:14:10.183				T__									m_e

Event 1229004 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	09:46:19.12		0.52	-20.3840	169.5230				33.0			13	235	145.12	148.27	m i ke	BGR
	1229010																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.86		PKPbc	10:05:58.769		38.3		3.28		TAS					m_e
BFO	148.27		PKPbc	10:06:01.701		38.3		3.28		TAS					m_e
FUR	147.20		PKPbc	10:05:59.401		38.3		3.28		TAS					m_e
GEC2	145.62		PKPbc	10:05:53.987	-0.1	38.3		3.28		TAS					m_e

GRA1	146.04	PKPbc	10:05:54.981	-0.7	38.3	3.28	TAS	m_e
IBBN	145.12	PKPbc	10:05:52.004	0.7	38.3	3.28	TAS	m_e
MOX	145.13	PKPbc	10:05:51.711	-0.5	38.3	3.28	TAS	m_e
RJOB	146.84	PKPbc	10:05:57.468		38.3	3.28	TAS	m_e
ROTZ	145.57	PKPbc	10:05:53.931	0.4	38.3	3.28	TAS	m_e
STU	147.57	PKPbc	10:06:00.087		38.3	3.28	TAS	m_e
TNS	146.66	PKPbc	10:05:57.480		38.3	3.28	TAS	m_e
WET	145.76	PKPbc	10:05:54.555	0.2	38.3	3.28	TAS	m_e
WLF	147.92	PKPbc	10:06:01.720		38.3	3.28	TAS	m_e

Event 1229005 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	09:59:29.03		0.52	-20.7500	168.7160				33.0				9	235	145.21	148.28	m i ke BGR
OrigID 1229011																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.28		PKPbc	10:19:11.226		39.8		3.07		TAS					m_e
FUR	147.17		PKPbc	10:19:08.485		39.8		3.07		TAS					m_e
GRA1	146.03		PKPbc	10:19:04.892		39.8		3.07		TAS					m_e
IBBN	145.21		PKPbc	10:19:02.421	-0.4	39.8		3.07		TAS					m_e
RJOB	146.79		PKPbc	10:19:07.066		39.8		3.07		TAS					m_e
ROTZ	145.56		PKPbc	10:19:03.096		39.8		3.07		TAS					m_e
TNS	146.70		PKPbc	10:19:06.882		39.8		3.07		TAS					m_e
WET	145.73		PKPbc	10:19:03.758		39.8		3.07		TAS					m_e
WLF	147.99		PKPbc	10:19:11.132		39.8		3.07		TAS					m_e

Event 1229006 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	11:10:38.11		0.52	-20.7000	168.8230				33.0				15	235	144.96	148.28	m i ke BGR
OrigID 1229012																	

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.92		PKPbc	11:30:17.317		39.6		3.21		TAS					m_e
BFO	148.28		PKPbc	11:30:20.240		39.6		3.21		TAS					m_e
FUR	147.17		PKPbc	11:30:17.695		39.6		3.21		TAS					m_e
GEC2	145.58		PKPbc	11:30:11.934	0.6	39.6		3.21		TAS					m_e
GRA1	146.03		PKPbc	11:30:13.973	-0.1	39.6		3.21		TAS					m_e

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GTTG	145.06	PKPbc	11:30:10.793	0.1	39.6	3.21	TAS	m_e
IBBN	145.19	PKPbc	11:30:10.831	0.0	39.6	3.21	TAS	m_e
MOX	145.13	PKPbc	11:30:10.249	0.4	39.6	3.21	TAS	m_e
RJOB	146.79	PKPbc	11:30:16.145		39.6	3.21	TAS	m_e
ROTZ	145.56	PKPbc	11:30:12.198	-0.1	39.6	3.21	TAS	m_e
STU	147.58	PKPbc	11:30:18.456		39.6	3.21	TAS	m_e
TANN	144.96	PKPbc	11:30:10.383	-0.3	39.6	3.21	TAS	m_e
TNS	146.70	PKPbc	11:30:15.870	-0.6	39.6	3.21	TAS	m_e
WET	145.73	PKPbc	11:30:12.776	0.4	39.6	3.21	TAS	m_e
WLF	147.98	PKPbc	11:30:20.177		39.6	3.21	TAS	m_e

Event 1229007 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	13:37:42.12		1.07	-20.1250	170.1170				33.0				5	134	144.79	147.87	m i ke BGR
	1229013																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
GRA1	146.04		PKPbc	13:57:17.982		37.2		3.27		TAS					m_e
MOX	145.12		PKPbc	13:57:14.845		37.2		3.27		TAS					m_e
PLN	145.04		PKPbc	13:57:14.299		37.2		3.27		TAS					m_e
ROHR	145.18		PKPbc	13:57:14.715		37.2		3.27		TAS					m_e
ROTZ	145.59		PKPbc	13:57:16.313		37.2		3.27		TAS					m_e
SCHF	144.79		PKPbc	13:57:13.674		37.2		3.27		TAS					m_e
TAUT	144.82		PKPbc	13:57:13.465		37.2		3.27		TAS					m_e
TNS	146.63		PKPbc	13:57:20.025		37.2		3.27		TAS					m_e
WERN	145.11		PKPbc	13:57:14.715		37.2		3.27		TAS					m_e
WLF	147.87		PKPbc	13:57:24.086		37.2		3.27		TAS					m_e

Event 1229008 Fiji Islands region

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	14:37:05.81		1.07	-17.7500	-178.8800				600.0				14	134	143.19	147.91	m i ke BGR
	1229014																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	145.40		PKPbc	14:54:18.058		18.7		2.90		TAS					m_e
BSEG	143.19		PKPbc	14:54:11.261		18.7		2.90		TAS					m_e
CLL	145.21		PKPbc	14:54:17.349	0.1	18.7		2.90		TAS					m_e

CLZ	145.20	PKPbc	14:54:17.485	18.7	2.90	TAS	m_e
GEC2	147.34	PKPbc	14:54:23.456	18.7	2.90	TAS	m_e
GRA1	147.11	PKPbc	14:54:22.934	18.7	2.90	TAS	m_e
GRB5	147.57	PKPbc	14:54:23.983	18.7	2.90	TAS	m_e
GRC4	147.62	PKPbc	14:54:24.078	18.7	2.90	TAS	m_e
GTTG	145.56	PKPbc	14:54:18.378	18.7	2.90	TAS	m_e
IBBN	145.12	PKPbc	14:54:16.993	18.7	2.90	TAS	m_e
NRDL	144.62	PKPbc	14:54:15.597	18.7	2.90	TAS	m_e
TANN	146.17	PKPbc	14:54:20.024	18.7	2.90	TAS	m_e
TNS	147.07	PKPbc	14:54:22.615	18.7	2.90	TAS	m_e
WLF	147.91	PKPbc	14:54:25.716	18.7	2.90	TAS	m_e

Event 1229009 Loyalty Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	18:10:17.75		1.07	-21.4240	168.1450				33.0			10	134	145.32	148.65	m i ke	BGR
	1229015																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BFO	148.65		PKPbc	18:30:01.085		41.2		3.01		TAS					m_e
GEC2	145.88		PKPbc	18:29:52.923		41.2		3.01		TAS					m_e
GRA1	146.39		PKPbc	18:29:54.682		41.2		3.01		TAS					m_e
MOX	145.50		PKPbc	18:29:51.638	-0.3	41.2		3.01		TAS					m_e
RJOB	147.09		PKPbc	18:29:56.993		41.2		3.01		TAS					m_e
ROTZ	145.91		PKPbc	18:29:53.504		41.2		3.01		TAS					m_e
TANN	145.32		PKPbc	18:29:51.279		41.2		3.01		TAS					m_e
TNS	147.10		PKPbc	18:29:56.756		41.2		3.01		TAS					m_e
WET	146.06		PKPbc	18:29:53.750		41.2		3.01		TAS					m_e
WLF	148.41		PKPbc	18:30:01.088		41.2		3.01		TAS					m_e

Event 1229010 Xizang

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	18:30:53.34		1.07	29.9800	86.7900				18.3	0.9		21	134	56.85	61.99	m i ke	BGR
	1229016																

Magnitude Err Nsta Author OrigID

mb	5.2		BGR	1229016
Ms	4.7		BGR	1229016

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

AHRW	61.21	P	18:41:07.128	0.1	80.0	6.91	TAS	16.9	1.22	m_e	mb	4.7
BFO	60.92	P	18:41:04.331	-0.6	80.0	6.91	TAS	8.9	1.42	a_e	mb	4.4
BRG	56.85	P	18:40:36.581	-0.4	80.0	6.91	TAS	60.1	1.50	a_e	mb	5.4
BRG	56.85	pP	18:40:41.682	-3.7			T__			m_e		
BSEG	58.60	P	18:40:49.131	0.4	80.0	6.91	TAS	32.7	0.66	a_e	mb	5.5
BUG	60.89	P	18:41:04.581	-0.2	80.0	6.91	TAS	34.7	1.30	a_e	mb	5.0
CLL	57.38	P	18:40:39.881	-0.7	80.0	6.91	TAS	26.2	1.44	a_e	mb	5.1
CLL	57.38	pP	18:40:44.957	-3.7			T__			m_e		
CLZ	58.91	P	18:40:51.081	-0.1	80.0	6.91	TAS	31.8	0.98	a_e	mb	5.3
CLZ	58.91	pP	18:40:56.402	-3.7			T__			m_e		
FUR	59.03	P	18:40:52.181	0.4	80.0	6.91	TAS	66.4	1.40	a_e	mb	5.5
GEC2	57.32	P	18:40:40.081	0.1	80.0	6.91	TAS	28.3	1.29	m_e	mb	5.1
GEC2	57.32	pP	18:40:45.008	-3.7			T__			m_e		
GRA1	58.77	P	18:40:50.781	0.6	80.0	6.91	TAS	59.2	1.51	a_e	mb	5.4
GRA1	58.77	pP	18:40:55.723	-3.7			T__			m_e		
GRA1	58.77	L	19:07:49.460				T__	586.5	18.80	a_e	Ms	4.7
GTTG	59.22	P	18:40:53.231	-0.0	80.0	6.91	TAS	41.1	1.49	a_e	mb	5.2
IBBN	60.41	P	18:41:01.331	-0.1	80.0	6.91	TAS	60.4	1.48	a_e	mb	5.4
MOX	58.35	P	18:40:47.181	-0.1	80.0	6.91	TAS	25.9	1.39	a_e	mb	5.1
MOX	58.35	L	19:08:33.007				T__	630.6	20.20	a_e	Ms	4.7
NRDL	58.96	P	18:40:51.731	0.3	80.0	6.91	TAS	52.2	1.03	a_e	mb	5.5
RJOB	58.11	P	18:40:45.231	-0.0	80.0	6.91	TAS	14.2	1.44	a_e	mb	4.8
ROTZ	58.13	P	18:40:46.231	0.5	80.0	6.91	TAS	58.2	1.57	a_e	mb	5.4
STU	60.26	P	18:41:00.381	-0.0	80.0	6.91	TAS	18.1	0.94	a_e	mb	5.1
TANN	57.86	P	18:40:43.731	-0.2	80.0	6.91	TAS	34.1	1.57	a_e	mb	5.1
TANN	57.86	pP	18:40:48.856	-3.7			T__			m_e		
TNS	60.42	P	18:41:01.431	-0.2	80.0	6.91	TAS	20.3	0.98	a_e	mb	5.1
TNS	60.42	pP	18:41:06.665	-3.7			T__			m_e		
WET	57.80	P	18:40:43.481	0.1	80.0	6.91	TAS	24.1	1.38	a_e	mb	5.0
WET	57.80	pP	18:40:48.381	-3.7			T__			m_e		
WLF	61.99	P	18:41:12.631	0.2	80.0	6.91	TAS	31.5	1.21	a_e	mb	5.4

Event 1229011 Xizang

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	19:01:29.56		1.07	29.7450	85.7700				17.3	2.5		20	134	56.38	61.51	m i ke	BGR
	1229017																

Magnitude 5.0  
 Err 5.0  
 Nsta BGR  
 Author BGR  
 OrigID 1229017

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	60.73	P		19:11:39.527	-0.2	80.2		7.01		TAS		13.2	0.77	a_e	mb 4.8
BRG	56.38	P		19:11:08.277	-0.4	80.2		7.01		TAS		15.1	1.11	a_e	mb 4.9
BRG	56.38	pP		19:11:13.160	1.4					T__				m_e	
BSEG	58.18	P		19:11:20.677		80.2		7.01		TAS		21.6	0.74	a_e	mb 5.3

BUG	60.43	P	19:11:36.227	0.5	80.2	7.01	TAS	17.9	0.96	a_e	mb	5.1
BUG	60.43	pP	19:11:41.273	1.4			T__				m_e	
CLL	56.91	P	19:11:11.560	-0.2	80.2	7.01	TAS	7.8	1.17	m_e	mb	4.6
CLZ	58.46	P	19:11:22.827	0.5	80.2	7.01	TAS	27.8	0.89	a_e	mb	5.3
FUR	58.51	P	19:11:23.827	0.4	80.2	7.01	TAS	20.1	0.97	a_e	mb	5.1
GEC2	56.81	P	19:11:11.777	0.2	80.2	7.01	TAS	8.6	0.92	a_e	mb	4.8
GRA1	58.28	P	19:11:22.477	0.6	80.2	7.01	TAS	11.1	0.94	a_e	mb	4.9
GTTG	58.75	P	19:11:24.827	-0.1	80.2	7.01	TAS	18.4	0.95	a_e	mb	5.1
IBBN	59.97	P	19:11:33.877	0.2	80.2	7.01	TAS	21.2	0.89	a_e	mb	5.2
IBBN	59.97	pP	19:11:37.945	1.4			T__				m_e	
MOX	57.87	P	19:11:18.827	-0.2	80.2	7.01	TAS	7.7	1.02	a_e	mb	4.7
NRDL	58.51	P	19:11:23.427	-0.6	80.2	7.01	TAS	28.5	0.89	m_e	mb	5.3
RJOB	57.58	P	19:11:16.387	-0.5	80.2	7.01	TAS	16.8	1.63	m_e	mb	4.8
ROTZ	57.63	P	19:11:17.927	0.6	80.2	7.01	TAS	10.5	0.91	a_e	mb	4.9
STU	59.75	P	19:11:31.977	-0.2	80.2	7.01	TAS	13.9	0.75	a_e	mb	5.1
TANN	57.37	P	19:11:15.377	-0.1	80.2	7.01	TAS	10.9	1.09	a_e	mb	4.8
TANN	57.37	pP	19:11:20.142	1.4			T__				m_e	
TNS	59.94	P	19:11:33.127	-0.6	80.2	7.01	TAS	13.2	0.93	a_e	mb	5.0
TNS	59.94	pP	19:11:38.148	1.4			T__				m_e	
WET	57.30	P	19:11:15.127	0.1	80.2	7.01	TAS	4.8	0.72	a_e	mb	4.6
WLF	61.51	P	19:11:44.277	0.2	80.2	7.01	TAS	16.7	0.87	a_e	mb	5.3
WLF	61.51	pP	19:11:49.127	1.4			T__				m_e	

Event 1229012 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/29	21:10:32.41		1.07	-20.0780	170.2250				47.4	1.7		17	134	144.60	148.25	m i ke	BGR
	1229018																

Magnitude Err Nsta Author OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	146.80		PKPbc	21:30:14.453	-0.5	37.0		3.28		TAS				a_e	
BFO	148.25		PKPbc	21:30:18.103		37.0		3.28		TAS				a_e	
BFO	148.25		pPKPbc	21:30:32.246						T__				m_e	
BUG	145.96		PKPbc	21:30:11.003	0.2	37.0		3.28		TAS				a_e	
BUG	145.96		pPKPbc	21:30:25.374						T__				m_e	
CLZ	144.60		PKPbc	21:30:06.703	-0.3	37.0		3.28		TAS				a_e	
CLZ	144.60		pPKPbc	21:30:21.226						T__				m_e	
FUR	147.23		PKPbc	21:30:15.453		37.0		3.28		TAS				a_e	
FUR	147.23		pPKPbc	21:30:29.443						T__				m_e	
GEC2	145.66		PKPbc	21:30:10.089	0.3	37.0		3.28		TAS				m_e	
GRA1	146.04		PKPbc	21:30:11.703	0.3	37.0		3.28		TAS				a_e	
GRA1	146.04		pPKPbc	21:30:25.404						T__				m_e	
GTTG	144.99		PKPbc	21:30:08.053	-0.1	37.0		3.28		TAS				a_e	
IBBN	145.06		PKPbc	21:30:08.203	0.4	37.0		3.28		TAS				a_e	

MOX	145.12	PKPbc	21:30:08.203	0.1	37.0	3.28	TAS	a_e
MOX	145.12	pPKPbc	21:30:22.415				T__	m_e
RJOB	146.90	PKPbc	21:30:13.953	0.2	37.0	3.28	TAS	a_e
ROTZ	145.59	PKPbc	21:30:10.103	-0.4	37.0	3.28	TAS	a_e
STU	147.56	PKPbc	21:30:16.353		37.0	3.28	TAS	a_e
STU	147.56	pPKPbc	21:30:30.665				T__	m_e
TANN	144.98	PKPbc	21:30:07.803	0.2	37.0	3.28	TAS	a_e
TANN	144.98	pPKPbc	21:30:22.160				T__	m_e
TNS	146.62	PKPbc	21:30:13.703	0.0	37.0	3.28	TAS	m_e
WET	145.79	PKPbc	21:30:10.714	-0.4	37.0	3.28	TAS	m_e
WLF	147.86	PKPbc	21:30:17.853		37.0	3.28	TAS	a_e

Event 1230003 Near Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/30	06:56:47.09		0.55	54.2150	171.1610				33.0			31	175	71.06	76.80	m i ke	BGR
	1230009																

Magnitude	Err	Nsta	Author	OrigID
mb	5.7		BGR	1230009
Ms	4.7		BGR	1230009

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	74.77		P	07:08:21.895	0.2	12.0		5.79		TAS		67.1	1.31	a_e mb	5.5
ASSE	72.78		P	07:08:10.395	0.0	12.0		5.79		TAS		107.9	1.57	a_e mb	5.7
BFO	76.80		P	07:08:33.145	-0.5	12.0		5.79		TAS		95.0	1.67	a_e mb	5.7
BRG	73.56		P	07:08:14.545	-0.3	12.0		5.79		TAS		79.4	1.34	m_e mb	5.6
BSEG	71.06		P	07:08:00.345	0.0	12.0		5.79		TAS		84.9	1.22	a_e mb	5.7
BUG	73.86		P	07:08:16.245	-0.2	12.0		5.79		TAS		85.3	1.44	a_e mb	5.6
CLL	73.27		P	07:08:12.795	-0.4	12.0		5.79		TAS		116.9	1.55	a_e mb	5.8
CLZ	73.10		P	07:08:12.495	0.3	12.0		5.79		TAS		114.3	1.31	a_e mb	5.8
FLT1	72.51		P	07:08:08.245	-0.6	12.0		5.79		TAS		66.4	1.39	a_e mb	5.6
FUR	76.59		P	07:08:32.245	-0.2	12.0		5.79		TAS		218.5	1.99	a_e mb	5.9
GEC2	75.57		P	07:08:26.545	0.1	12.0		5.79		TAS		78.3	1.27	a_e mb	5.7
GRA1	75.10		P	07:08:24.095	0.3	12.0		5.79		TAS		142.0	1.46	a_e mb	5.8
GRA1	75.10		L	07:40:29.659						T__		367.6	20.40	a_e Ms	4.7
GTTG	73.44		P	07:08:14.245	0.1	12.0		5.79		TAS		57.5	1.31	a_e mb	5.5
GUNZ	74.29		P	07:08:19.295	0.2	12.0		5.79		TAS		93.4	1.36	a_e mb	5.6
HLG	71.09		P	07:08:00.695	0.3	12.0		5.79		TAS		155.7	1.22	a_e mb	6.0
IBBN	72.95		P	07:08:11.445	0.2	12.0		5.79		TAS		133.0	1.18	a_e mb	6.0
MANZ	74.69		P	07:08:21.345	-0.1	12.0		5.79		TAS		58.1	1.37	a_e mb	5.4
MOX	74.11		P	07:08:17.995	-0.1	12.0		5.79		TAS		62.4	1.33	a_e mb	5.5
NEUB	73.56		P	07:08:14.595	-0.2	12.0		5.79		TAS		97.1	1.25	a_e mb	5.7
NRDL	72.50		P	07:08:08.495	-0.2	12.0		5.79		TAS		51.7	1.45	a_e mb	5.5
PLN	74.19		P	07:08:18.695	0.2	12.0		5.79		TAS		87.8	1.67	a_e mb	5.5
RJOB	76.79		P	07:08:33.607	0.1	12.0		5.79		TAS		2405.6	5.33	m_e mb	6.6



ROTZ	74.89	P	07:08:22.945	0.4	12.0	5.79	TAS	88.8	1.39	a_e	mb	5.6
RUE	72.02	P	07:08:05.795	-0.2	12.0	5.79	TAS	120.9	1.39	a_e	mb	5.8
STU	76.27	P	07:08:30.045	-0.5	12.0	5.79	TAS	46.8	1.27	a_e	mb	5.5
TANN	74.22	P	07:08:18.845	0.2	12.0	5.79	TAS	98.8	1.51	a_e	mb	5.6
TNS	74.93	P	07:08:22.645	-0.1	12.0	5.79	TAS	51.6	1.36	a_e	mb	5.4
WERD	74.21	P	07:08:18.745	0.1	12.0	5.79	TAS	91.4	1.36	a_e	mb	5.6
WERN	74.36	P	07:08:19.695	0.2	12.0	5.79	TAS	99.0	1.24	a_e	mb	5.7
WET	75.40	P	07:08:25.845	0.3	12.0	5.79	TAS	85.8	1.34	a_e	mb	5.6
WLF	75.73	P	07:08:27.495	0.2	12.0	5.79	TAS	50.3	1.19	a_e	mb	5.5

Event 1230004 Poland

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/30	08:56:44.84	0.38	0.72	51.5060	16.1440	4.4	2.2	16	1.0			13	213	0.67	3.16	m i ki	BGR
OrigID 1230010																	

Magnitude	Err	Nsta	Author	OrigID
ML	4.5		BGR	1230010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
BRG	1.52		Sg	08:57:33.628	0.4					T__				m_e	
BRG	1.52		Pn	08:57:11.698	-0.6					T__				m_e	ML 4.5
BRG	1.52		Pg	08:57:13.275	-0.2					T__				m_e	
CLL	1.98		Sg	08:57:47.668	0.1					T__				m_e	
CLL	1.98		Pn	08:57:17.655	-0.8					T__				m_e	ML 4.3
CLL	1.98		Pg	08:57:21.366	-0.7					T__				m_e	
DPC	1.16		Sg	08:57:21.893	0.2					T__				m_e	
DPC	1.16		Pg	08:57:06.363	-0.3					T__				m_e	ML 4.5
GEC2	3.09		Sg	08:58:21.963	-1.0					T__				m_e	
GEC2	3.09		Pn	08:57:34.271	0.8					T__				m_e	ML 4.6
GEC2	3.09		Pg	08:57:43.243	0.2					T__				m_e	
KSP	0.67		Sg	08:57:06.884	0.7					T__				m_e	
KSP	0.67		Pg	08:56:57.524	0.1					T__				m_e	ML 3.9
MORC	1.95		Sg	08:57:46.245	-0.4					T__				m_e	
MORC	1.95		Pn	08:57:18.137	0.1					T__				m_e	ML 4.6
MOX	2.98		Sg	08:58:21.033	1.5					T__				m_e	
MOX	2.98		Pn	08:57:32.231	0.2					T__				m_e	ML 4.8
MOX	2.98		Pg	08:57:40.847	-0.2					T__				m_e	
OJC	2.65		Sg	08:58:10.801	1.9					T__				m_e	
OJC	2.65		Pn	08:57:26.210	-1.3					T__				m_e	ML 4.4
OJC	2.65		Pg	08:57:33.966	-0.8					T__				m_e	
OKC	2.10		Sg	08:57:51.288	-0.3					T__				m_e	
OKC	2.10		Pn	08:57:19.463	-0.7					T__				m_e	ML 4.3
ROTZ	3.05		Sg	08:58:20.524	-1.2					T__				m_e	
ROTZ	3.05		Pn	08:57:33.547	0.6					T__				m_e	ML 4.4
TANN	2.57		Sg	08:58:06.183	-0.3					T__				m_e	

TANN	2.57	Pn	08:57:26.988	0.5	T__	m_e ML	4.7
WERD	2.65	Pn	08:57:27.882	0.4	T__	m_e ML	4.5
WERD	2.65	Pg	08:57:35.517	0.8	T__	m_e	
WET	3.16	Sg	08:58:24.993	-0.1	T__	m_e	
WET	3.16	Pn	08:57:34.846	0.5	T__	m_e ML	4.5

Event 1230006 Rat Islands, Aleutian Islands, United States

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/30	12:02:45.25		0.72	52.3610	176.4320				33.0			31	213	75.20	77.08	m i ke	BGR
	1230012																

Magnitude	Err	Nsta	Author	OrigID
mb	5.6		BGR	1230012
MBB	5.9		BGR	1230012
Ms	4.9		BGR	1230012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	77.08		P	12:14:33.192	0.1	9.2		5.61		TAS		101.9	1.12	m_e mb	5.9
ASSE	75.20		P	12:14:22.553	0.0	9.2		5.61		TAS		53.0	1.25	m_e mb	5.4
BFO			P	12:14:44.381	-0.5	9.2		5.61		TAS		42.3	0.96	m_e mb	5.4
BRG			P	12:14:27.302	-0.2	9.2		5.61		TAS		36.3	1.11	m_e mb	5.4
BSEG			P	12:14:12.710	0.0	9.2		5.61		TAS		140.9	1.04	m_e MBB	6.1
BUG			P	12:14:27.735	-0.2	9.2		5.61		TAS		74.5	1.07	m_e mb	5.7
CLL			P	12:14:25.293	-0.5	9.2		5.61		TAS		74.1	1.99	m_e mb	5.5
CLZ			P	12:14:24.634	0.3	9.2		5.61		TAS		134.5	1.07	m_e MBB	6.1
FLT1			P	12:14:20.509	-0.6	9.2		5.61		TAS		61.1	1.04	m_e mb	5.6
FUR			P	12:14:44.015	-0.2	9.2		5.61		TAS		82.4	0.97	m_e mb	5.7
GEC2			P	12:14:38.989	0.1	9.2		5.61		TAS		40.8	1.25	m_e mb	5.4
GRA1			P	12:14:36.187	0.4	9.2		5.61		TAS		95.1	1.14	m_e mb	5.8
GRA1			L	12:55:25.807						T__		579.4	19.60	a_e Ms	4.9
GTTG			P	12:14:26.278	0.1	9.2		5.61		TAS		111.6	1.14	m_e MBB	6.0
GUNZ			P	12:14:31.562	0.2	9.2		5.61		TAS		36.3	1.09	m_e MBB	5.5
HLG			P	12:14:12.545	0.2	9.2		5.61		TAS		160.3	1.04	m_e MBB	6.2
IBBN			P	12:14:23.200	0.3	9.2		5.61		TAS		262.1	1.12	m_e MBB	6.3
MANZ			P	12:14:33.556	-0.1	9.2		5.61		TAS		30.9	1.15	m_e mb	5.3
MOX			P	12:14:30.186	-0.1	9.2		5.61		TAS		46.6	1.09	m_e mb	5.5
MOX			L	12:54:46.351						T__		469.3	19.40	a_e Ms	4.8
NEUB			P	12:14:27.008	-0.1	9.2		5.61		TAS		107.0	1.10	m_e mb	5.9
NRDL			P	12:14:20.658	-0.2	9.2		5.61		TAS		97.1	1.10	m_e MBB	5.9
PLN			P	12:14:30.800	-0.0	9.2		5.61		TAS		25.0	1.09	m_e mb	5.3
RJOB			P	12:14:45.646	0.0	9.2		5.61		TAS		26.9	0.93	m_e mb	5.3
ROTZ			P	12:14:35.115	0.3	9.2		5.61		TAS		45.2	1.22	m_e mb	5.5
RUE			P	12:14:18.638	-0.1	9.2		5.61		TAS		91.3	1.30	m_e mb	5.6
STU			P	12:14:41.683	-0.3	9.2		5.61		TAS		68.9	0.96	m_e mb	5.7
TANN			P	12:14:31.204	0.2	9.2		5.61		TAS		43.5	1.30	m_e mb	5.4

TNS	P	12:14:34.150	-0.1	9.2	5.61	TAS	49.0	0.91	m_e	mb	5.6
WERD	P	12:14:31.022	0.1	9.2	5.61	TAS	33.8	1.15	m_e	MBB	5.4
WERN	P	12:14:32.003	0.2	9.2	5.61	TAS	65.9	1.07	m_e	MBB	5.8
WET	P	12:14:38.085	0.3	9.2	5.61	TAS	55.0	1.56	m_e	mb	5.4
WLF	P	12:14:38.451	0.2	9.2	5.61	TAS	54.4	1.06	m_e	mb	5.6

Event 1230007 Kuril Islands, Russia

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/30	19:56:36.50		0.72	50.2600	154.1000				193.3				16 213			m i ke	NEIC
	1230069																

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1230013

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
ASSE			P	20:07:45.962	3.7	23.6		7.08		TAS		22.8	1.47	m_e	mb	5.1
BRG			P	20:07:47.516	4.5	23.6		7.08		TAS		17.4	1.24	m_e	mb	4.9
BUG			P	20:07:54.253		23.6		7.08		TAS		22.0	1.33	m_e	mb	5.0
CLZ			P	20:07:48.553	4.2	23.6		7.08		TAS		54.3	1.48	m_e	mb	5.4
GRA1			P	20:07:58.709		23.6		7.08		TAS		72.8	1.62	m_e	mb	5.5
GUNZ			P	20:07:52.906	-1.4	23.6		7.08		TAS		34.0	1.61	m_e	mb	5.1
IBBN			P	20:07:49.278	4.5	23.6		7.08		TAS		29.9	1.28	m_e	mb	5.2
MANZ			P	20:07:55.393		23.6		7.08		TAS		11.3	1.41	m_e	mb	4.7
MOX			P	20:07:52.698	3.1	23.6		7.08		TAS		30.5	1.61	m_e	mb	5.1
ROTZ			P	20:07:56.844		23.6		7.08		TAS		14.8	1.19	m_e	mb	4.9
STU			P	20:08:05.860		23.6		7.08		TAS				m_e		
TANN			P	20:07:52.595		23.6		7.08		TAS				m_e		
WERD			P	20:07:52.848	4.9	23.6		7.08		TAS		17.9	1.41	m_e	mb	4.9
WERN			P	20:07:53.527	-0.4	23.6		7.08		TAS		11.8	0.75	m_e	mb	5.0
WET			P	20:07:59.124		23.6		7.08		TAS		42.7	1.60	m_e	mb	5.3

Event 1230008 Vanuatu Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/30	21:22:31.10		0.72	-19.9700	168.3700				22.4				213			m i ke	NEIC
	1230070																

Magnitude	Err	Nsta	Author	OrigID

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1			PKP	21:42:06.393		39.8		3.23		TAS				m_e		

Event 1231004 Central Mid-Atlantic Ridge

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/31	16:30:56.67		0.70	-0.0280	-24.7790				33.0			28	175	56.04	61.45	m i ke	BGR

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1231010

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude
AHRW	57.21		P	16:40:42.321	0.5	223.6		6.98		TAS		32.4	1.04	a_e mb	5.3
ASSE	59.88		P	16:41:00.361	-0.3	223.6		6.98		TAS		15.6	1.04	m_e mb	5.0
BFO	56.04		P	16:40:33.574	-0.3	223.6		6.98		TAS		17.8	1.06	m_e mb	5.0
BRG	60.40		P	16:41:04.221	0.1	223.6		6.98		TAS		19.0	1.46	a_e mb	4.9
BSEG	61.09		P	16:41:08.271		223.6		6.98		TAS		37.8	0.89	a_e mb	5.2
BUG	57.99		P	16:40:47.226	-0.2	223.6		6.98		TAS		29.9	1.15	m_e mb	5.2
CLL	60.28		P	16:41:03.292	-0.1	223.6		6.98		TAS		14.9	1.00	m_e mb	5.0
FLT1	60.26		P	16:41:02.921	0.3	223.6		6.98		TAS		22.7	1.04	m_e mb	5.1
FUR	57.25		P	16:40:42.421	0.1	223.6		6.98		TAS		42.6	0.77	a_e mb	5.5
GEC2	58.88		P	16:40:53.921	0.3	223.6		6.98		TAS		20.5	0.89	a_e mb	5.2
GRA1	58.33		P	16:40:49.771	-0.1	223.6		6.98		TAS		27.9	0.91	a_e mb	5.3
GTTG	59.15		P	16:40:55.821	0.1	223.6		6.98		TAS		39.1	1.42	a_e mb	5.2
GUNZ	59.31		P	16:40:56.771	0.1	223.6		6.98		TAS		21.6	1.11	a_e mb	5.1
IBBN	58.85		P	16:40:53.171	0.2	223.6		6.98		TAS		39.2	0.94	a_e mb	5.4
MANZ	58.94		P	16:40:54.021	-0.1	223.6		6.98		TAS		20.0	0.93	a_e mb	5.1
MOX	59.19		P	16:40:56.121	0.2	223.6		6.98		TAS		19.0	0.94	a_e mb	5.1
NEUB	59.66		P	16:40:59.171	0.1	223.6		6.98		TAS		22.4	1.00	a_e mb	5.2
NRDL	59.92		P	16:41:01.088	-0.5	223.6		6.98		TAS		24.3	1.15	m_e mb	5.1
PLN	59.32		P	16:40:56.721	-0.1	223.6		6.98		TAS		23.4	0.89	a_e mb	5.2
RJOB	57.68		P	16:40:45.071	-0.1	223.6		6.98		TAS		39.5	0.66	a_e mb	5.6
ROTZ	58.83		P	16:40:53.271	-0.1	223.6		6.98		TAS		25.5	1.03	a_e mb	5.2
RUE	61.45		P	16:41:11.799		223.6		6.98		TAS		54.1	1.01	m_e mb	5.3
STU	56.75		P	16:40:38.321	-0.5	223.6		6.98		TAS		19.4	0.91	a_e mb	5.1
TANN	59.41		P	16:40:57.421	0.3	223.6		6.98		TAS		26.3	0.99	a_e mb	5.2
TNS	57.52		P	16:40:43.971	-0.1	223.6		6.98		TAS		32.2	0.95	m_e mb	5.3
WERD	59.36		P	16:40:56.992	0.1	223.6		6.98		TAS		16.5	1.15	m_e mb	5.0
WERN	59.28		P	16:40:56.571	0.1	223.6		6.98		TAS		16.9	0.90	a_e mb	5.1
WET	58.70		P	16:40:52.371	-0.0	223.6		6.98		TAS		18.3	0.89	a_e mb	5.1

Event 1231005 Leeward Islands

Date	Time	Err	RMS	Latitude	Longitude	Smaj	Smin	Az	Depth	Err	Ndef	Nsta	Gap	mdist	Mdist	Qual	Author
2010/12/31	18:18:52.46		0.70	16.5500	-59.7680				33.0				175	65.28	65.28	m i ke	BGR

1231011

Magnitude	Err	Nsta	Author	OrigID
mb	5.1		BGR	1231011

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
GRA1	65.28		P	18:29:30.990		262.5		6.89		TAS		24.8	1.38	m_e	mb	5.3

Event 1231006 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
2010/12/31	23:01:04.24		0.70	37.4240	141.7500				33.0			23	175	80.77	85.10	m i ke	BGR

OrigID  
1231012

Magnitude	Err	Nsta	Author	OrigID
mb	5.2		BGR	1231012

Sta	Dist	EvAz	Phase	Time	TRes	Azim	AzRes	Slow	SRes	Def	SNR	Amp	Per	Qual	Magnitude	
AHRW	83.76		P	23:13:28.343		37.5		5.20		TAS		16.4	1.24	m_e	mb	5.1
BFO	85.10		P	23:13:34.934		37.5		5.20		TAS		26.6	1.01	m_e	mb	5.4
BRG	80.85		P	23:13:13.202	0.3	37.5		5.20		TAS		15.0	0.88	m_e	mb	5.0
CLL	80.89		P	23:13:13.143	-0.1	37.5		5.20		TAS		28.0	0.86	m_e	mb	5.3
CLZ	81.48		P	23:13:16.884	-0.0	37.5		5.20		TAS		17.4	0.82	m_e	mb	5.1
FLT1	80.77		P	23:13:12.431	-0.2	37.5		5.20		TAS		19.7	0.69	m_e	mb	5.3
FUR	84.06		P	23:13:29.887		37.5		5.20		TAS		31.5	0.82	m_e	mb	5.6
GEC2	82.52		P	23:13:21.693	-0.1	37.5		5.20		TAS		12.3	1.05	m_e	mb	5.1
GRA1	82.87		P	23:13:24.246		37.5		5.20		TAS		33.7	0.91	m_e	mb	5.6
GTTG	81.87		P	23:13:18.665	-0.3	37.5		5.20		TAS		14.3	0.87	m_e	mb	5.1
GUNZ	81.90		P	23:13:18.843	0.1	37.5		5.20		TAS		12.5	0.98	m_e	mb	5.0
IBBN	82.06		P	23:13:19.615	0.0	37.5		5.20		TAS		26.2	0.83	m_e	mb	5.4
MANZ	82.28		P	23:13:20.803	0.1	37.5		5.20		TAS		12.8	0.97	m_e	mb	5.0
MOX	81.96		P	23:13:19.021	0.1	37.5		5.20		TAS		9.3	0.80	m_e	mb	5.0
NEUB	81.46		P	23:13:16.231	0.2	37.5		5.20		TAS		25.4	0.92	m_e	mb	5.2
NRDL	81.06		P	23:13:14.331	0.1	37.5		5.20		TAS		9.1	0.86	m_e	mb	4.8
RJOB	83.77		P	23:13:28.581		37.5		5.20		TAS		15.1	0.96	m_e	mb	5.2
ROTZ	82.42		P	23:13:21.931	-0.1	37.5		5.20		TAS		10.7	0.81	m_e	mb	5.0
STU	84.40		P	23:13:31.609		37.5		5.20		TAS		28.2	0.88	m_e	mb	5.5
TANN	81.81		P	23:13:18.190	0.1	37.5		5.20		TAS		8.6	1.02	m_e	mb	4.8
TNS	83.51		P	23:13:27.156		37.5		5.20		TAS		6.5	0.76	m_e	mb	4.9
WERN	81.94		P	23:13:19.140	0.5	37.5		5.20		TAS		19.5	1.08	m_e	mb	5.2
WET	82.63		P	23:13:22.703	-0.4	37.5		5.20		TAS		11.1	0.98	m_e	mb	5.1

## Format description

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(T. Plenefisch, Email: plene@szgrf.bgr.de)

In general all regional and teleseismic events clearly recorded with stations of the Gräfenberg-Array (GRF) and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Each event is reported by an EPICENTER LINE, a REGION LINE and a block of PHASE LINES.

## EPICENTER LINE:

Date	Date of the event
Origin Time	Origin time of the event
Lat	Geographic latitude (N/S) of epicenter in degree
Long	Geographic longitude (E/W) of epicenter in degree
Depth	Depth of the hypocenter beneath the surface in kilometer
	Appended flag indicates the method by which the depth was determined:
	BLANK - free
	N - preset depth of 33 kilometer
	G - geophysicist preset depth
mb, Ms, ML	Magnitudes of the event and magnitude type
Source	Abbreviations for the authority (e.g. SZGRF, NEIC, SED, MAD)

## REGION LINE:

The region name of the epicenter location.

## PHASE LINE:

Sta	Station code of the reported phase
Phase	Preceded flag for the sharpness of the onset of the phase
	e - emergent
	i - impulsive
	w - weak
	ISC phase code
	Component where the phase was picked
Time	Arrival time of the reported phase
Dist	Distance from the epicenter location to the station in degree
BAz	Backazimuth from the epicenter location to the station in degree
T[s]	Phase Period
A[nm]	Phase Amplitude
mb	Body wave magnitude
MS	Surface wave magnitude
ML	Local Richter magnitude

