

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

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(produced by SZGRF/BGR - ERLANGEN and partly by CLL - Observatory)

DECEMBER 2006 UPDATED 25.SEPTEMBER.2007

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/01	01:38:15.5	83.297N	41.831W	33.0N	4.5			SZGRF
Near north coast of Kalaallit Nunaat								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:45:19.0	36.6	351.0	1.7	16	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/01	03:58:22.0	3.160N	98.890E	199.9	6.6			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:10:30.9	84.4	91.9	1.5	869	6.8		
GEC2	e P	Z	04:10:31.5	84.5	91.5	1.6	773	6.7		
	e pP	Z	04:11:20.7							
	e SKSac	R	04:20:33.8							
	e ScS	R	04:20:51.9							
RUE	e P	Z	04:10:31.5	84.5	92.0	0.9	1262	7.1		
	e pP	Z	04:11:21.4							
FBE	e P	Z	04:10:32.8	84.7	91.5	1.5	1023	6.8		
RGN	e P	Z	04:10:33.4	84.9	91.8	1.2	578	6.7		
CLL	i P	- Z	04:10:33.5	85.0	91.2	1.4	499	6.6		
	e pP	Z	04:11:23.5							
	e SKSac	E	04:20:34.6							
	e S	N	04:20:40.8							
	e ScS	E	04:20:54.9							
	e SP	Z	04:21:33.2							
	e PS	N	04:22:12.0							
	e SS	Z	04:26:28.2							

	e SSSS	E	04:32:51.7							
	e PKPPKPdf	Z	04:36:50.1							
	e SKPPKPdf	Z	04:40:01.8							
WET	e P	Z	04:10:34.1	85.0	90.9	1.2	289	6.4		
	e SKSac	R	04:20:36.5							
TANN	e P	Z	04:10:35.5	85.3	90.7	1.5	305	6.3		
WERN	e P	Z	04:10:35.9	85.3	90.7	1.2	183	6.2		
GUNZ	e P	Z	04:10:36.1	85.4	90.6	1.5	496	6.5		
WERD	e P	Z	04:10:35.9	85.4	90.6	1.5	458	6.5		
ROTZ	e P	Z	04:10:36.7	85.4	90.5	1.5	562	6.6		
MANZ	e P	Z	04:10:37.2	85.5	90.4	1.4	600	6.5		
	e pP	Z	04:11:25.9							
MOX	e P	Z	04:10:38.1	85.8	90.1	1.5	580	6.5		
	e SKSac	R	04:20:40.6							
FUR	e P	Z	04:10:38.8	86.1	89.7	1.2	314	6.3		
GRA1	e P	Z	04:10:39.8	86.1	89.7	1.5	819	6.6		
	e pP	Z	04:11:28.9							
	e SKSac	R	04:20:42.7							
	e ScS	R	04:21:05.1							
GRFO	e P	Z	04:10:39.8	86.1	89.7	1.5	733	6.6		
CLZ	e P	Z	04:10:42.1	86.6	89.2	1.5	1280	6.8		
	e SKSac	R	04:20:45.4							
	e ScS	R	04:21:06.6							
BSEG	e P	Z	04:10:42.1	86.6	89.3	1.5	901	6.7		
NRDL	e P	Z	04:10:42.4	86.8	89.0	1.4	1293	6.9		
UBBA	e P	Z	04:10:43.2	86.8	88.9	0.9	171	6.2		
STU	e P	Z	04:10:46.0	87.4	88.1	1.6	489	6.4		
TNS	e P	Z	04:10:48.3	87.9	87.6	1.0	684	6.9		
BFO	e P	Z	04:10:48.3	88.0	87.5	0.9	203	6.5		
HLG	e P	Z	04:10:49.0	88.0	87.3	0.9	304	6.6		
BUG	e P	Z	04:10:51.4	88.5	86.8	0.9	502	6.7		
WLF	e P	Z	04:10:55.7	89.4	85.9	1.4	718	6.7		
	e pP	Z	04:11:43.9							
	e S	T	04:21:25.9							

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/01 09:23:26.9 16.970S 174.380W 33.0N
 Tonga Islands SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 09:42:59.1	144.9	7.9					
CLL	e PKPbc	Z 09:42:59.7	145.2	12.4					
FBE	e PKPbc	Z 09:43:00.9	145.5	13.1					
MOX	e PKPbc	Z 09:43:02.8	146.0	10.3					
WERD	e PKPbc	Z 09:43:03.2	146.1	11.5					
GUNZ	e PKPbc	Z 09:43:03.9	146.2	11.6					
WERN	e PKPbc	Z 09:43:04.0	146.2	11.7					

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MANZ	e	PKPbc	Z	09:43:04.6	146.6	11.3
TNS	e	PKPbc	Z	09:43:04.8	146.7	4.9
ROTZ	e	PKPbc	Z	09:43:05.2	146.8	11.6
GRA1	e	PKPbc	Z	09:43:06.0	147.0	9.9
WET	e	PKPbc	Z	09:43:07.3	147.3	12.9
WLF	e	PKPbc	Z	09:43:07.0	147.3	0.9
GEC2	e	PKPbc	Z	09:43:07.1	147.5	14.5
FUR	e	PKPbc	Z	09:43:10.6	148.5	10.4
BFO	e	PKPbc	Z	09:43:10.4	148.6	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/01	13:11:57.1	36.225N	71.507E	33.0N	5.0			SZGRF
Afghanistan-Tajikistan border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:20:08.3	44.8	83.7	0.9	17	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/01	14:01:48.8	8.200S	118.800E	48		6.1		NEIC
Sumbawa, Indonesia, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PP	Z 14:20:22.5	106.2	82.8					
	e SKSac	E 14:26:34.4							
	e PS	Z 14:29:38.9							
	e PPS	Z 14:30:37.8							
	e SS	N 14:35:22.7							
	e SSSS	N 14:42:43.4							
	e L	Z 15:10:17.5			22.0	5300		6.0	
GRA1	e PP	Z 14:20:28.7	107.6	81.8					
	e L	Z 15:11:53.4			20.6	5048		6.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/01	15:57:26.4	7.947N	71.977W	33.0N	4.6			SZGRF
Venezuela								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:09:30.5	79.6	270.0	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/01	20:48: 2.3	25.650S	177.750W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:07:52.5	151.1	15.2					
RUE	e PKPbc	Z	21:07:53.9	151.8	22.4					
NRDL	e PKPab	Z	21:08:04.9	152.5	15.5					
CLL	e PKPbc	Z	21:07:56.2	153.1	21.8					
	e PKPab	Z	21:08:07.6							
CLZ	e PKPbc	Z	21:07:56.8	153.1	16.3					
BRG	e PKPbc	Z	21:07:56.8	153.2	23.9					
	e PKPab	Z	21:08:08.5							
FBE	e PKPbc	Z	21:07:57.2	153.3	22.8					
	e PKPab	Z	21:08:09.2							
GUNZ	e PKPab	Z	21:08:12.8	154.1	21.2					
WERN	e PKPbc	Z	21:07:59.4	154.2	21.3					
	e PKPab	Z	21:08:12.9							
ROTZ	e PKPab	Z	21:08:16.0	154.7	21.4					
TNS	e PKPbc	Z	21:08:01.1	155.0	13.3					
GRA1	e PKPab	Z	21:08:16.7	155.0	19.4					
WET	e PKPab	Z	21:08:17.0	155.1	23.3					
FUR	e PKPab	Z	21:08:22.8	156.4	20.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	00:49:39.0	36.740N	140.138E	33.0N	4.9			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:01:58.7	82.5	39.0	1.0	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	06:39:36.6	36.842N	44.380E	33.0N	4.7			SZGRF

Iran-Iraq border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:45:16.3	27.0	105.7	1.2	18	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	08:32:12.6	53.883N	163.901W	33.0N	5.0			SZGRF

Unimak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:43:58.8	76.3	357.0	1.4	16	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	09:52:11.9	18.732S	175.125W	140.8				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	10:11:36.5	146.6	9.5					
CLL	e PKPbc	Z	10:11:36.8	146.8	14.2					
GTTG	e PKPbc	Z	10:11:37.8	146.9	8.9					
BRG	e PKPbc	Z	10:11:37.9	147.1	15.9					
FBE	e PKPbc	Z	10:11:38.3	147.1	14.9					
BUG	e PKPbc	Z	10:11:38.0	147.2	4.2					
MOX	e PKPbc	Z	10:11:39.3	147.6	12.0					
UBBA	e PKPbc	Z	10:11:38.9	147.7	9.1					
WERD	e PKPbc	Z	10:11:39.3	147.7	13.3					
TANN	e PKPbc	Z	10:11:38.9	147.7	13.5					
GUNZ	e PKPbc	Z	10:11:39.3	147.8	13.3					
WERN	e PKPbc	Z	10:11:39.8	147.9	13.4					
MANZ	e PKPbc	Z	10:11:40.2	148.2	13.1					
TNS	e PKPbc	Z	10:11:41.4	148.4	6.5					
ROTZ	e PKPbc	Z	10:11:40.7	148.4	13.3					
GRA1	e PKPdf	Z	10:11:40.1	148.6	11.6					
	e PKPbc	Z	10:11:41.7							
	e PKPab	Z	10:11:44.7							
	e pPKPbc	Z	10:12:18.7							
WET	e PKPbc	Z	10:11:42.8	148.9	14.8					
WLF	e PKPbc	Z	10:11:43.4	149.1	2.4					
GEC2	e PKPbc	Z	10:11:43.0	149.1	16.4					
STU	e PKPdf	Z	10:11:41.9	149.8	8.1					
	e PKPbc	Z	10:11:44.9							
FUR	e PKPbc	Z	10:11:46.1	150.1	12.2					
BFO	e PKPbc	Z	10:11:46.4	150.3	6.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:31:10.2			1.8	98			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	14:00:39.4	48.660N	157.445E	33.0N	5.1			SZGRF
East of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	14:12:31.9	77.4	22.1	0.8	11	5.1
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	16:57:36.0	50.187N	164.931W	33.0N	4.7			SZGRF

South of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:09:42.8	80.1	357.5	1.4	13	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/02	23:36:21.7	46.530N	153.111E	22.9	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:48:20.2	78.3	25.7	1.0	24	5.2		
	e pP	Z 23:48:26.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/03	00:54:29.6	47.084N	155.879E	33.0N	5.2			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:06:28.0	78.5	23.7	0.9	23	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/03	04:52:40.3	53.638N	160.874E	36.5	5.4	4.6		SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:04:10.5	73.6	18.2	1.0	37	5.4		
	e pP	Z 05:04:20.9							
	e L	Z 05:39:09.5			20.2	340		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/03	08:19:51.5	0.272S	20.732W	33.0N	4.9			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:29:34.0	57.0	219.1	1.0	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/03	09:31:42.0	39.733N	145.041E	33.0N	5.3			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:43:57.9	81.8	34.1	1.6	38	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/03	20:52:15.4	13.727N	90.069W	33.0G	5.8	5.7		SZGRF

Near coast of Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 21:04:40.1	83.5	283.6					
BUG	e P	Z 21:04:42.5	83.8	284.3	1.3	101	5.9		
TNS	e P	Z 21:04:46.6	84.8	285.3	1.3	174	6.1		
BFO	e P	Z 21:04:48.1	85.2	285.3	1.3	91	5.9		
CLZ	e P	Z 21:04:50.4	85.5	286.6	1.4	182	6.0		
STU	e P	Z 21:04:52.3	85.7	285.9					
MOX	e P	Z 21:04:55.5	86.6	287.6	1.4	92	5.7		
GRA1	e P	Z 21:04:56.2	86.7	287.4	1.2	147	6.0		
	e	21:05:12.7							
	e S	E 21:15:21.1							
	e SS	E 21:21:10.3							
	e L	Z 21:39:51.0			21.4	2979		5.7	
MANZ	e P	Z 21:04:58.3	87.1	288.1					
FUR	e P	Z 21:04:58.2	87.2	287.5	1.3	61	5.6		
TANN	e P	Z 21:04:58.6	87.2	288.3					
CLL	e P	Z 21:04:58.4	87.3	288.7	1.2	63	5.6		
ROTZ	e P	Z 21:04:59.1	87.3	288.1					
WET	e P	Z 21:05:02.1	87.9	288.7	1.4	129	6.1		
BRG	e P	Z 21:05:02.0	88.0	289.4	1.3	44	5.6		
GEC2	e P	Z 21:05:04.7	88.5	289.3	1.6	57	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/03	21:08:31.2	35.092N	141.416E	33.0N	5.0			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:21:00.8	84.4	38.9	0.9	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/04	00:05:34.3	47.717N	158.779E	33.0N	4.6			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 00:17:21.8	76.7	22.9					
CLZ	e P	Z 00:17:23.4	76.8	21.2					
BRG	e P	Z 00:17:22.3	76.9	23.4					
MOX	e P	Z 00:17:27.4	77.7	21.9					
TANN	e P	Z 00:17:27.4	77.7	22.5					
ROTZ	e P	Z 00:17:31.4	78.3	22.2					
GRA1	e P	Z 00:17:33.3	78.6	21.6	0.8	5	4.6		
WET	e P	Z 00:17:33.6	78.7	22.6					
TNS	e P	Z 00:17:34.7	78.8	19.8					
GEC2	e P	Z 00:17:33.4	78.8	23.1					
BFO	e P	Z 00:17:44.8	80.6	19.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/04	09:14:13.0	56.527N	110.085E	33.0N	5.2	5.1		SZGRF

Lake Baykal, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:23:37.6	54.5	42.0	1.0	26	5.2		
	e L	Z 09:49:20.0			18.7	1436		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/05	04:36:24.0	20.217N	93.572E	33.0N	5.1			SZGRF

Myanmar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:47:31.9	69.9	82.1	0.9	15	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/05	08:38:22.1	19.745S	173.270E	33.0N				SZGRF

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 08:57:55.8	145.2	29.0					
TANN	e PKPbc	Z 08:57:57.1	145.8	33.4					
MOX	e PKPbc	Z 08:57:57.5	145.9	31.9					
UBBA	e PKPbc	Z 08:57:58.4	146.2	29.2					
ROTZ	e PKPbc	Z 08:57:59.3	146.4	33.5					
BUG	e PKPbc	Z 08:57:59.5	146.5	24.3					

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 01:06:42.1							
	e Sn	N 01:08:12.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/07	05:20:58.4	46.587N	27.083W	33.0N	4.6	4.4		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:26:23.9	25.5	277.8	1.4	22	4.6		
	e L	Z 05:35:13.1			21.7	1180		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/07	05:36:53.1	27.737N	127.243E	26.2	5.4			SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z 05:49:16.8	83.2	52.7	1.3	38	5.4		
	e pP	Z 05:49:24.3							
GRA1	e P	Z 05:49:20.8	84.0	53.1	1.3	47	5.5		
	e pP	Z 05:49:28.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/07	06:35: 0.2	8.853S	126.542E	40.0G		5.2		NEIC

Timor, Indonesia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP	Z 06:54:10.1	110.6	75.9					
	e SP	Z 07:03:35.5							
RUE	e SP	Z 07:03:37.7	110.8	77.1					
BRG	e PP	Z 06:54:13.0	111.0	77.8					
	e SP	Z 07:03:42.3							
CLL	e PP	Z 06:54:18.0	111.5	76.8					
	e SP	Z 07:03:47.3							
GEC2	e PP	Z 06:54:15.9	111.6	78.4					
	e SP	Z 07:03:48.9							
TANN	e PP	Z 06:54:23.1	112.1	76.7					
	e SP	Z 07:03:54.0							
WET	e PP	Z 06:54:20.2	112.1	77.6					
	e SP	Z 07:03:55.1							
ROTZ	e PP	Z 06:54:21.7	112.4	76.8					
	e SP	Z 07:03:58.5							
MANZ	e PP	Z 06:54:21.7	112.4	76.6					

	e SP	Z	07:03:58.0							
BSEG	e SP	Z	07:03:55.7	112.4	73.5					
MOX	e PP	Z	06:54:24.6	112.5	75.9					
	e SP	Z	07:03:58.6							
NRDL	e PP	Z	06:54:25.3	112.9	73.9					
	e SP	Z	07:04:00.1							
CLZ	e PP	Z	06:54:27.5	113.0	74.4					
	e SP	Z	07:04:03.4							
GRA1	e PP	Z	06:54:26.0	113.0	76.0					
	e SP	Z	07:04:04.4							
	e SSS	R	07:14:17.0							
	e L	Z	07:49:43.6			21.2	714		5.2	
FUR	e PP	Z	06:54:30.4	113.3	76.7					
	e SP	Z	07:04:07.5							
UBBA	e PP	Z	06:54:31.1	113.5	74.5					
	e SP	Z	07:04:08.8							
HLG	e PP	Z	06:54:34.0	113.7	71.3					
	e SP	Z	07:04:09.7							
IBBN	e PP	Z	06:54:35.5	114.4	71.9					
	e SP	Z	07:04:18.4							
STU	e PP	Z	06:54:39.1	114.5	74.7					
	e SP	Z	07:04:20.5							
TNS	e PP	Z	06:54:39.1	114.6	73.4					
	e SP	Z	07:04:21.4							
BUG	e PP	Z	06:54:41.3	114.9	71.9					
	e SP	Z	07:04:25.7							
BFO	e PP	Z	06:54:38.4	115.2	74.2					
	e SP	Z	07:04:32.7							
WLF	e PP	Z	06:54:47.8	116.2	71.7					
	e SP	Z	07:04:27.5							

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/07 19:10:30.5 46.717N 153.146E 33.0N 6.4 6.4
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 19:21:58.4	73.2	27.5	0.8	436	6.5		
BSEG	e P	Z 19:22:06.0	74.5	25.5	1.5	426	6.3		
RUE	e P	Z 19:22:08.1	74.9	27.5	1.1	531	6.5		
CLL	e P	Z 19:22:15.0	76.2	26.9	1.6	864	6.6		
	e	19:22:35.3							
	e PP	Z 19:25:12.9							
	e S	E 19:32:06.7							
	e ScS	E 19:32:33.9							
	e PS	N 19:32:43.8							
	e SS	N 19:37:21.6							
	e SSS	N 19:40:29.8							

	e LR	Z	19:47:28.5								
	e L	Z	20:02:32.2			18.0	23102		6.5		
BRG	e P	Z	19:22:15.7	76.3	27.5	1.3	283		6.2		
CLZ	e P	Z	19:22:17.0	76.4	25.3	2.1	1786		6.8		
FBE	e P	Z	19:22:16.6	76.4	27.1	1.5	548		6.5		
IBBN	e P	Z	19:22:17.9	76.6	23.6	1.3	642		6.6		
TANN	e P	Z	19:22:20.9	77.1	26.5	2.0	567		6.4		
WERD	e P	Z	19:22:20.8	77.1	26.4	1.9	795		6.5		
MOX	e P	Z	19:22:20.8	77.1	25.9	1.8	646		6.4		
GUNZ	e P	Z	19:22:21.3	77.2	26.4	1.9	810		6.5		
WERN	e P	Z	19:22:21.6	77.3	26.4	1.1	251		6.2		
UBBA	e P	Z	19:22:22.3	77.4	24.9	1.4	373		6.3		
BUG	e P	Z	19:22:23.0	77.6	23.2	1.2	448		6.5		
MANZ	e P	Z	19:22:23.6	77.6	26.2	1.4	220		6.1		
ROTZ	e P	Z	19:22:24.8	77.8	26.2	1.4	348		6.3		
GRA1	e P	Z	19:22:26.7	78.1	25.6	1.1	432		6.5		
	e PP	Z	19:25:27.7								
	e S	R	19:32:29.5								
	e P'P'df	Z	19:49:22.3								
	e L	Z	20:01:38.5			18.6	15506		6.4		
GRFO	e P	Z	19:22:26.7	78.1	25.6	1.1	398		6.4		
WET	e P	Z	19:22:26.8	78.1	26.6	1.8	933		6.6		
GEC2	e P	Z	19:22:26.5	78.2	27.1	4.7					
TNS	e P	Z	19:22:27.8	78.4	23.9	1.0	259		6.2		
WLF	e P	Z	19:22:34.2	79.5	22.3	1.2	282		6.1		
FUR	e P	Z	19:22:34.1	79.5	25.5	1.2	617		6.4		
STU	e P	Z	19:22:33.9	79.5	24.2	1.1	404		6.3		
BFO	e P	Z	19:22:37.4	80.1	23.6	1.1	405		6.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/07 20:44:14.2 15.787S 171.913W 34.5 SZGRF
 Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	21:03:43.9	144.3	8.1					
BUG	e PKPbc	Z	21:03:44.6	144.3	358.7					
BRG	e PKPbc	Z	21:03:45.3	144.6	9.8					
FBE	e PKPbc	Z	21:03:45.3	144.6	8.8					
UBBA	e PKPbc	Z	21:03:46.1	144.9	3.2					
MOX	e PKPbc	Z	21:03:46.9	145.0	5.9					
	e pPKPbc	Z	21:03:57.2							
WERD	e PKPbc	Z	21:03:47.4	145.2	7.1					
TANN	e PKPbc	Z	21:03:47.7	145.2	7.4					
	e pPKPbc	Z	21:03:57.9							
GUNZ	e PKPbc	Z	21:03:47.8	145.3	7.2					
	e pPKPbc	Z	21:03:58.4							
WERN	e PKPbc	Z	21:03:48.1	145.3	7.3					

	e	pPKPbc	Z	21:03:58.6					
TNS	e	PKPbc	Z	21:03:49.1	145.6	0.6			
MANZ	e	PKPbc	Z	21:03:49.5	145.6	6.9			
	e	pPKPbc	Z	21:03:59.5					
ROTZ	e	PKPbc	Z	21:03:49.8	145.9	7.1			
	e	pPKPbc	Z	21:04:00.3					
GRA1	e	PKPbc	Z	21:03:50.0	146.0	5.4			
GRFO	e	PKPbc	Z	21:03:50.3	146.0	5.4			
WLF	e	PKPbc	Z	21:03:50.8	146.1	356.7			
WET	e	PKPbc	Z	21:03:51.2	146.4	8.4			
GEC2	e	PKPbc	Z	21:03:51.9	146.6	9.9			
STU	e	PKPbc	Z	21:03:53.1	147.0	2.0			
BFO	e	PKPbc	Z	21:03:54.2	147.5	0.4			
FUR	e	PKPbc	Z	21:03:54.3	147.5	5.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/08	01:59:28.2	40.130N	53.230E	33.0N	5.0			SZGRF

Turkmenistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:05:27.6	29.1	96.2	1.0	24	5.0		
RUE	e P	Z 02:05:29.6	29.5	98.9	0.6	28	5.2		
CLL	e P	Z 02:05:32.8	29.8	96.1	0.5	9	4.8		
TANN	e P	Z 02:05:35.4	30.0	94.1	0.9	7	4.5		
WERD	e P	Z 02:05:36.3	30.1	94.0	1.0	13	4.7		
MOX	e P	Z 02:05:40.6	30.6	93.8	0.9	24	5.1		
GRA1	e P	Z 02:05:42.1	30.8	91.8	0.9	3	4.3		
CLZ	e P	Z 02:05:48.0	31.5	94.7	0.7	15	5.0		
BSEG	e P	Z 02:05:50.3	31.7	98.0	0.8	54	5.5		
STU	e P	Z 02:05:53.3	32.1	88.8	0.9	29	5.2		
IBBN	e P	Z 02:06:02.3	33.1	93.2	1.1	39	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/08	02:34:45.2	46.470N	153.772E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:46:43.6	78.5	25.3	0.9	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/08	19:25: 4.5	19.002S	174.096W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 19:44:37.7	144.9	7.3					
CLZ	e	PKPbc	Z 19:44:43.6	147.0	7.8					
CLL	e	PKPbc	Z 19:44:43.8	147.2	12.5					
BRG	e	PKPbc	Z 19:44:45.2	147.5	14.2					
FBE	e	PKPbc	Z 19:44:45.5	147.5	13.2					
MOX	e	PKPbc	Z 19:44:46.2	148.0	10.2					
WERD	e	PKPbc	Z 19:44:45.9	148.1	11.5					
GUNZ	e	PKPbc	Z 19:44:47.1	148.2	11.6					
WERN	e	PKPbc	Z 19:44:47.8	148.3	11.7					
MANZ	e	PKPbc	Z 19:44:48.1	148.6	11.3					
ROTZ	e	PKPbc	Z 19:44:48.5	148.8	11.6					
GRA1	e	PKPbc	Z 19:44:49.0	149.0	9.8					
GEC2	e	PKPbc	Z 19:44:49.6	149.5	14.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	00:59:32.4	28.971N	130.820E	33.0N	4.9	5.0		SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 01:12:04.2	84.8	49.8	0.9	7	4.9		
	e	L	Z 01:53:45.1			19.2	564		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	09:24:44.2	4.860N	95.340E	33.0N	5.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z 09:36:55.1	80.8	93.6	0.9	28	5.3		
GEC2	e	P	Z 09:36:55.5	80.8	93.1	0.9	90	5.8		
RUE	e	P	Z 09:36:56.1	81.0	93.7	0.9	81	5.8		
FBE	e	P	Z 09:36:57.2	81.2	93.2	1.0	57	5.6		
WET	e	P	Z 09:36:58.2	81.4	92.5	1.0	44	5.4		
CLL	e	P	Z 09:36:57.7	81.4	92.9	1.1	31	5.3		
TANN	e	P	Z 09:36:59.9	81.7	92.4	1.2	22	5.2		
WERN	e	P	Z 09:37:00.2	81.8	92.3	1.0	21	5.2		
GUNZ	e	P	Z 09:37:00.3	81.8	92.3	1.0	27	5.3		
WERD	e	P	Z 09:37:00.3	81.8	92.3	1.0	20	5.2		
ROTZ	e	P	Z 09:37:01.1	81.9	92.1	1.0	39	5.5		
MANZ	e	P	Z 09:37:01.7	81.9	92.1	1.0	61	5.7		
MOX	e	P	Z 09:37:02.8	82.3	91.8	0.9	17	5.2		
FUR	e	P	Z 09:37:03.5	82.4	91.2	1.2	42	5.4		
GRA1	e	P	Z 09:37:04.5	82.5	91.3	0.9	46	5.7		
CLZ	e	P	Z 09:37:07.1	83.1	90.9	0.9	39	5.6		
BSEG	e	P	Z 09:37:07.5	83.1	91.2	0.9	64	5.8		

TNS	e P	Z	09:37:13.3	84.3	89.3	1.0	36	5.6
BFO	e P	Z	09:37:13.2	84.4	89.0	0.9	27	5.5
IBBN	e P	Z	09:37:15.5	84.7	88.9	1.0	58	5.7
BUG	e P	Z	09:37:16.8	85.0	88.5	1.0	45	5.7
WLF	e P	Z	09:37:21.0	85.8	87.5	1.2	32	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	14:48:56.6	47.470N	146.300E	412.7	5.9			SZGRF
Northwest of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	14:59:30.5	70.5	31.6	1.0	348	6.4		
BSEG	e P	Z	14:59:38.6	72.0	29.6	0.9	128	6.1		
RUE	e P	Z	14:59:39.8	72.2	31.6	1.0	216	6.2		
	e S	T	15:08:30.2							
CLL	e P	Z	14:59:46.8	73.4	30.9	0.9	296	6.3		
	e pP	Z	15:01:17.0							
	e S	E	15:08:47.5							
	e ScS	N	15:09:16.7							
	e SP	N	15:09:23.9							
	e sS	E	15:11:24.7							
	e SS	E	15:13:43.2							
	e sSS	E	15:16:04.0							
	e SSSS	E	15:19:21.8							
BRG	e P	Z	14:59:47.3	73.5	31.4	1.0	76	5.8		
	e S	T	15:08:43.8							
FBE	e P	Z	14:59:48.3	73.6	31.0	0.9	138	6.1		
CLZ	e P	Z	14:59:49.4	73.8	29.3	1.2	272	6.3		
	e S	T	15:08:48.7							
GTTG	e P	Z	14:59:52.1	74.2	29.0	1.1	45	5.5		
TANN	e P	Z	14:59:52.4	74.4	30.4	0.9	44	5.6		
WERD	e P	Z	14:59:52.6	74.4	30.3	0.9	70	5.8		
MOX	e P	Z	14:59:52.8	74.4	29.9	1.0	95	5.9		
GUNZ	e P	Z	14:59:53.1	74.4	30.3	0.8	91	5.9		
WERN	e P	Z	14:59:53.4	74.5	30.3	0.8	96	6.0		
UBBA	e P	Z	14:59:54.4	74.8	28.9	1.7	169	5.8		
MANZ	e P	Z	14:59:55.4	74.8	30.1	1.1	79	5.6		
	e S	T	15:09:00.3							
ROTZ	e P	Z	14:59:56.5	75.0	30.2	1.3	79	5.6		
BUG	e P	Z	14:59:56.0	75.0	27.3	1.0	141	5.9		
GEC2	e P	Z	14:59:57.9	75.3	31.0	0.8	64	5.7		
	e S	T	15:09:06.1							
WET	e P	Z	14:59:58.4	75.3	30.5	1.1	164	6.0		
GRA1	e P	Z	14:59:58.7	75.4	29.6	0.8	251	6.3		
	e pP	Z	15:01:29.5							
	e S	T	15:09:05.0							
TNS	e P	Z	15:00:00.4	75.8	27.9	0.9	101	5.9		

FUR	e P	Z	15:00:05.9	76.7	29.4	1.0	262	6.3
	e S	T	15:09:21.4					
WLF	e P	Z	15:00:08.5	76.9	26.4	1.1	39	5.5
BFO	e P	Z	15:00:09.7	77.5	27.6	1.0	108	5.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	17:12: 5.8	53.780N	156.950E	33.0N	5.3	4.8		SZGRF

Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 17:23:10.0	68.8	20.4	1.3	36	5.4		
RUE	e P	Z 17:23:13.8	69.4	22.2	0.8	39	5.6		
CLL	e P	Z 17:23:20.9	70.7	21.6	1.1	57	5.6		
CLZ	e P	Z 17:23:22.1	70.8	20.2	1.0	55	5.6		
IBBN	e P	Z 17:23:21.9	70.8	18.7	1.0	33	5.4		
BRG	e P	Z 17:23:22.2	70.9	22.1	1.4	31	5.2		
FBE	e P	Z 17:23:23.0	70.9	21.8	1.2	32	5.3		
GTTG	e P	Z 17:23:25.8	71.1	19.9	1.0	15	5.1		
MOX	e P	Z 17:23:26.8	71.6	20.7	1.4	40	5.4		
TANN	e P	Z 17:23:27.2	71.6	21.2	1.2	23	5.2		
WERD	e P	Z 17:23:27.2	71.6	21.1	1.2	28	5.3		
GUNZ	e P	Z 17:23:27.8	71.7	21.1	1.8	64	5.5		
WERN	e P	Z 17:23:28.1	71.8	21.1	1.6	54	5.4		
BUG	e P	Z 17:23:27.2	71.8	18.3	1.2	31	5.3		
UBBA	e P	Z 17:23:27.8	71.8	19.8	1.5	48	5.4		
MANZ	e P	Z 17:23:30.0	72.1	20.9	1.3	25	5.2		
ROTZ	e P	Z 17:23:31.4	72.3	21.0	1.3	26	5.2		
GRA1	e P	Z 17:23:33.1	72.6	20.4	1.0	47	5.6		
	e L	Z 17:58:07.4			20.2	473		4.8	
TNS	e P	Z 17:23:33.1	72.7	18.9	0.8	19	5.3		
WET	e P	Z 17:23:34.0	72.7	21.3	1.3	39	5.4		
GEC2	e P	Z 17:23:34.1	72.8	21.7	1.3	28	5.2		
WLF	e P	Z 17:23:40.7	73.7	17.5	1.5	23	5.0		
FUR	e P	Z 17:23:41.1	74.0	20.3	1.4	41	5.3		
BFO	e P	Z 17:23:43.4	74.5	18.6	1.3	18	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	18:38:31.1	45.487N	152.897E	33.0N	4.3			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:50:33.1	79.2	26.3	0.9	4	4.3		

./2006/bul0612.txt

Thu Apr 23 08:38:25 2020

17

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/12/09

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 21:02:59.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	21:20:21.1	46.759N	149.179E	33.0N	4.5			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 21:31:58.2	75.0	29.4	0.7	8	4.8		
CLZ	e P	Z 21:32:01.0	75.3	27.8	0.8	4	4.6		
MOX	e P	Z 21:32:04.5	76.0	28.5	0.7	2	4.2		
MANZ	e P	Z 21:32:06.8	76.4	28.7	0.8	2	4.3		
ROTZ	e P	Z 21:32:08.3	76.5	28.7	0.7	2	4.3		
GEC2	e P	Z 21:32:09.6	76.9	29.6	0.7	2	4.3		
WET	e P	Z 21:32:09.9	76.9	29.1	0.8	2	4.3		
GRA1	e P	Z 21:32:10.5	76.9	28.1	0.7	8	4.9		
FUR	e P	Z 21:32:17.7	78.2	28.0	0.9	13	5.0		
BFO	e P	Z 21:32:21.2	79.0	26.1	0.9	2	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/09	21:20:13.3	46.394N	152.576E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:32:10.2	78.2	26.1	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/10	00:43: 2.7	18.610S	177.420W	553.0				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 01:01:34.8	144.2	12.6					
HLG	e PKPbc	Z 01:01:35.0	144.2	8.6					
RUE	e PKPbc	Z 01:01:37.1	145.0	18.7					
IBBN	e PKPbc	Z 01:01:40.5	146.1	8.8					
CLZ	e PKPbc	Z 01:01:41.0	146.2	13.4					
CLL	e PKPdf	Z 01:01:38.8	146.3	18.0					
	i PKPbc	- Z 01:01:41.0			1.0	101			
	e PKPab	Z 01:01:43.1							
	e pPKPdf	Z 01:03:50.7							

	e SKPdf	Z	01:04:18.4		
BRG	e PKPdf	Z	01:01:39.4	146.5	19.8
	e PKPbc	Z	01:01:41.7		
	e PKPab	Z	01:01:44.3		
FBE	e PKPbc	Z	01:01:42.0	146.6	18.8
MOX	e PKPdf	Z	01:01:40.4	147.2	15.9
	e PKPbc	Z	01:01:43.4		
	e PKPab	Z	01:01:46.7		
WERD	e PKPdf	Z	01:01:40.6	147.2	17.2
	e PKPbc	Z	01:01:43.7		
TANN	e PKPdf	Z	01:01:40.6	147.2	17.5
	e PKPbc	Z	01:01:43.6		
GUNZ	e PKPbc	Z	01:01:44.1	147.3	17.3
WERN	e PKPdf	Z	01:01:41.0	147.4	17.4
	e PKPbc	Z	01:01:44.3		
	e PKPab	Z	01:01:48.0		
MANZ	e PKPbc	Z	01:01:45.2	147.7	17.1
ROTZ	e PKPbc	Z	01:01:45.6	147.9	17.4
TNS	e PKPbc	Z	01:01:46.0	148.0	10.5
	e PKPab	Z	01:01:50.6		
GRA1	e PKPbc	Z	01:01:46.4	148.2	15.7
	e PKPab	Z	01:01:51.0		
	e pPKPbc	Z	01:03:53.8		
GRFO	e PKPbc	Z	01:01:46.2	148.2	15.7
	e PKPab	Z	01:01:50.9		
WET	e PKPdf	Z	01:01:42.2	148.4	18.8
	e PKPbc	Z	01:01:46.9		
	e PKPab	Z	01:01:51.8		
GEC2	e PKPbc	Z	01:01:46.9	148.5	20.5
	e PKPab	Z	01:01:52.4		
WLF	e PKPbc	Z	01:01:48.4	148.8	6.5
	e PKPab	Z	01:01:54.0		
FUR	e PKPbc	Z	01:01:49.5	149.6	16.5
	e PKPab	Z	01:01:57.2		
BFO	e PKPbc	Z	01:01:50.3	149.9	10.9

Date 2006/12/10
 Origin Time 11:03:39.3
 Lat 42.056N
 Long 16.392E
 Depth 10.0G
 mb
 Ms
 ML
 Source SZGRF
 Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	11:05:22.4	7.0	163.5					
	e Sn	T	11:06:37.5							
FUR	e Pn	Z	11:05:22.4	7.1	147.6					
	e Sn	R	11:06:39.0							
WET	e Pn	Z	11:05:27.8	7.5	159.6					
	e Sn	R	11:06:46.1							

ROTZ	e Pn	Z	11:05:37.3	8.2	157.8
	e Sn	R	11:07:02.8		
GRA1	e Pn	Z	11:05:39.4	8.4	152.9
BFO	e Pn	Z	11:05:39.6	8.5	134.9
MANZ	e Pn	Z	11:05:40.6	8.5	157.9
	e Sn	R	11:07:09.4		
WERN	e Pn	Z	11:05:44.0	8.7	159.9
GUNZ	e Pn	Z	11:05:45.3	8.8	159.8
TANN	e Pn	Z	11:05:45.3	8.8	160.5
WERD	e Pn	Z	11:05:46.2	8.9	159.9
BRG	e Pn	Z	11:05:48.0	9.0	168.3
FBE	e Pn	Z	11:05:49.7	9.1	165.6
MOX	e Pn	Z	11:05:50.1	9.2	157.2
	e Sn	R	11:07:26.2		
CLL	e Pn	Z	11:05:55.6	9.5	164.6
TNS	e Pn	Z	11:05:58.6	9.8	143.1
WLF	e Pn	Z	11:06:09.0	10.4	133.1
CLZ	e Pn	Z	11:06:10.1	10.6	155.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/10	15:28: 6.5	29.307N	131.385E	33.0N	5.3	6.2		SZGRF
Southeast of Ryukyu Islands, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 15:40:25.5	82.5	48.9	0.9	24	5.4		
BRG	e P	Z 15:40:27.0	82.8	51.3	1.3	17	5.1		
CLL	e P	Z 15:40:27.7	82.9	50.6	0.7	29	5.6		
FBE	e P	Z 15:40:28.5	83.0	50.8	1.2	24	5.3		
WERD	e P	Z 15:40:32.8	83.8	50.0	0.8	15	5.3		
CLZ	e P	Z 15:40:33.1	83.8	48.7	1.1	47	5.6		
GUNZ	e P	Z 15:40:32.9	83.9	50.1	1.2	35	5.4		
WERN	e P	Z 15:40:33.2	83.9	50.1	1.2	25	5.3		
MOX	e P	Z 15:40:33.8	84.0	49.6	1.2	14	5.1		
GEC2	e P	Z 15:40:34.2	84.1	50.9	1.1	14	5.1		
MANZ	e P	Z 15:40:34.9	84.2	49.9	1.2	22	5.3		
ROTZ	e P	Z 15:40:35.5	84.3	49.9	1.1	22	5.3		
WET	e P	Z 15:40:35.6	84.4	50.4	1.2	12	5.0		
IBBN	e P	Z 15:40:37.0	84.7	46.8	0.9	38	5.6		
GRA1	e P	Z 15:40:38.2	84.8	49.2	1.0	45	5.6		
	e PP	Z 15:44:01.8							
	e S	R 15:51:20.7							
	e SS	R 15:56:58.8							
	e L	Z 16:21:56.5			18.7	9465		6.2	
TNS	e P	Z 15:40:42.6	85.8	47.2	1.2	30	5.3		

./2006/bul0612.txt

Thu Apr 23 08:38:25 2020

20

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/10	19:53:44.6	54.880N	161.140E	33.0	4.7			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 20:04:45.9	68.6	17.5	0.9	7	4.9		
CLZ	e P	Z 20:04:58.4	70.5	17.3	0.9	8	4.8		
CLL	e P	Z 20:04:57.9	70.6	18.8	0.9	12	5.0		
	e pP	Z 20:05:08.8							
BRG	e P	Z 20:04:59.0	70.8	19.3	0.9	5	4.7		
MOX	e P	Z 20:05:03.5	71.5	17.9	0.9	6	4.8		
TANN	e P	Z 20:05:04.0	71.5	18.4	0.8	3	4.4		
MANZ	e P	Z 20:05:06.8	72.0	18.1	0.9	4	4.6		
ROTZ	e P	Z 20:05:08.4	72.2	18.2	1.0	6	4.6		
GRA1	e P	Z 20:05:10.1	72.4	17.6	0.8	12	5.0		
WET	e P	Z 20:05:10.9	72.6	18.5	0.8	5	4.7		
GEC2	e P	Z 20:05:11.2	72.7	18.9	0.8	3	4.4		
BFO	e P	Z 20:05:19.9	74.3	15.8	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/10	20:19:13.8	47.110N	154.458E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:31:10.0	78.1	24.6	0.9	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/11								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e Pn	Z 00:53:03.7							
	e Sn	N 00:53:38.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/11	07:46:44.9	48.160N	154.575E	33.0N	5.3			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 07:58:17.0	74.0	26.0	1.3	61	5.5		
CLL	e P	Z 07:58:23.8	75.2	25.4	1.1	59	5.6		
BRG	e P	Z 07:58:24.9	75.4	25.9	1.1	17	5.1		
CLZ	e P	Z 07:58:25.8	75.4	23.8	1.2	63	5.6		
FBE	e P	Z 07:58:25.7	75.5	25.6	1.2	35	5.4		

IBBN	e P	Z	07:58:26.7	75.6	22.1	1.2	42	5.4
TANN	e P	Z	07:58:30.0	76.2	25.0	1.4	16	4.9
WERD	e P	Z	07:58:29.9	76.2	24.9	1.2	27	5.2
MOX	e P	Z	07:58:29.9	76.2	24.4	1.1	24	5.2
GUNZ	e P	Z	07:58:30.5	76.3	24.9	1.3	40	5.4
WERN	e P	Z	07:58:30.8	76.3	24.9	1.2	32	5.3
BUG	e P	Z	07:58:31.6	76.5	21.7	1.2	44	5.5
MANZ	e P	Z	07:58:32.7	76.7	24.7	1.1	19	5.1
ROTZ	e P	Z	07:58:34.0	76.8	24.7	1.1	26	5.3
GRA1	e P	Z	07:58:35.9	77.2	24.1	1.3	77	5.7
WET	e P	Z	07:58:36.1	77.2	25.1	1.1	44	5.5
TNS	e P	Z	07:58:36.8	77.4	22.4	1.2	31	5.3
STU	e P	Z	07:58:43.1	78.6	22.7	1.4	34	5.2
FUR	e P	Z	07:58:43.4	78.6	24.0	1.3	65	5.5
BFO	e P	Z	07:58:46.5	79.2	22.2	1.3	44	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/11	09:08:51.5	55.899N	110.259E	33.0N	5.1	4.7		SZGRF

Lake Baykal, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:18:19.5	54.9	42.6	1.3	23	5.1		
	e L	Z 09:44:21.6			18.9	635		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/11	13:33:23.9	46.025N	153.744E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:45:24.5	78.9	25.5	0.9	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/12	06:47:53.3	46.542N	154.502E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:59:52.4	78.6	24.8	0.9	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/12	15:47:38.0	3.150N	126.370E	33.0N		5.6		SZGRF

Talau Islands, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SKSac	R	16:11:38.2	100.5	69.1					
RUE	e Pdiff	Z	16:01:21.9	101.0	69.9					
	e PP	Z	16:05:32.0							
	e SKSac	R	16:11:39.2							
BRG	e Pdiff	Z	16:01:23.6	101.4	70.3					
	e PP	Z	16:05:36.7							
	e SKSac	R	16:11:42.6							
FBE	e Pdiff	Z	16:01:25.2	101.7	69.8					
	e PP	Z	16:05:39.5							
CLL	i Pdiff	- Z	16:01:25.8	101.8	69.5	1.0	51			
	e pPdiff	Z	16:02:18.1							
	e PP	Z	16:05:39.1							
	e SKSac	E	16:11:41.9							
	e Sdiff	N	16:12:42.3							
	e PS	E	16:14:47.1							
	e PPS	E	16:15:28.4							
	e sSS	N	16:21:15.5							
	e L	Z	16:49:29.3			22.0	1996		5.6	
GEC2	e Pdiff	Z	16:01:27.2	102.2	70.5					
	e PP	Z	16:05:42.6							
	e SKSac	R	16:11:45.4							
BSEG	e Pdiff	Z	16:01:28.4	102.3	66.7					
	e SKSac	R	16:11:46.7							
TANN	e Pdiff	Z	16:01:28.3	102.4	69.2					
	e PP	Z	16:05:44.6							
	e SKSac	R	16:11:50.1							
WERD	e Pdiff	Z	16:01:28.6	102.5	69.1					
	e PP	Z	16:05:45.2							
GUNZ	e Pdiff	Z	16:01:28.9	102.5	69.1					
	e PP	Z	16:05:45.5							
WERN	e Pdiff	Z	16:01:28.8	102.5	69.1					
	e PP	Z	16:05:45.6							
WET	e Pdiff	Z	16:01:29.2	102.6	69.8					
	e SKSac	R	16:11:49.2							
MANZ	e Pdiff	Z	16:01:30.3	102.8	69.0					
	e PP	Z	16:05:47.8							
	e SKSac	R	16:11:51.4							
ROTZ	e Pdiff	Z	16:01:30.4	102.8	69.1					
	e PP	Z	16:05:47.7							
	e SKSac	R	16:11:51.7							
MOX	e Pdiff	Z	16:01:30.2	102.9	68.4					
	e PP	Z	16:05:47.9							
	e SKSac	R	16:11:50.7							
CLZ	e Pdiff	Z	16:01:32.0	103.1	67.2					
	e SKSac	R	16:11:52.0							
GRA1	e Pdiff	Z	16:01:33.0	103.4	68.3					
	e PP	Z	16:05:52.8							

	e SKSac	R	16:11:53.2								
	e SS	T	16:20:09.6								
	e L	Z	16:50:26.1			21.2	2069	5.6			
GRFO	e Pdiff	Z	16:01:33.1	103.5	68.3						
	e SKSac	R	16:11:54.5								
HLG	e SKSac	R	16:11:55.1	103.5	64.5						
UBBA	e Pdiff	Z	16:01:34.5	103.7	67.1						
	e PP	Z	16:05:55.3								
	e SKSac	R	16:11:51.4								
FUR	e Pdiff	Z	16:01:34.8	104.0	68.7						
	e PP	Z	16:05:55.8								
	e SKSac	R	16:11:52.6								
IBBN	e Pdiff	Z	16:01:37.7	104.4	64.8						
TNS	e Pdiff	Z	16:01:39.6	104.9	65.9						
	e SKSac	R	16:12:00.7								
STU	e Pdiff	Z	16:01:39.7	105.0	66.9						
	e SKSac	R	16:11:57.6								
BUG	e Pdiff	Z	16:01:40.4	105.1	64.6						
	e PP	Z	16:06:03.4								
	e SKSac	R	16:11:58.2								
BFO	e Pdiff	Z	16:01:43.2	105.7	66.3						
	e PP	Z	16:06:08.6								
	e SKSac	R	16:12:00.4								
WLF	e Pdiff	Z	16:01:47.0	106.5	64.1						
	e PP	Z	16:06:15.5								
	e SKSac	R	16:12:09.8								

Date
2006/12/12

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPab	Z	17:02:29.5							
BSEG	e PKPab	Z	17:02:05.1							
CLL	e PKPab	Z	17:02:13.1							
CLZ	e PKPab	Z	17:02:14.1							
FBE	e PKPab	Z	17:02:14.6							
FUR	e PKPab	Z	17:02:28.5							
GRA1	e PKPab	Z	17:02:22.5							
GUNZ	e PKPab	Z	17:02:18.1							
MOX	e PKPab	Z	17:02:17.1							
ROTZ	e PKPab	Z	17:02:20.8							
STU	e PKPab	Z	17:02:27.8							
TANN	e PKPab	Z	17:02:17.5							
TNS	e PKPab	Z	17:02:21.8							
WERD	e PKPab	Z	17:02:18.4							
WERN	e PKPab	Z	17:02:18.3							
WET	e PKPab	Z	17:02:22.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/12	17:02:32.9	19.136N	99.552E	33.0N	4.5			SZGRF

Thailand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:14:08.4	74.5	78.6	1.2	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/12	22:32: 5.8	45.396N	153.983E	33.0N	5.0	4.8		SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:44:09.9	79.6	25.6	0.9	18	5.0		
	e	22:44:23.9							
	e L	Z 23:21:57.0			20.0	452		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/13	01:57:49.0	46.443N	153.206E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:09:46.6	78.4	25.7	0.9	20	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/13	02:11:13.6	46.348N	153.850E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:23:12.7	78.6	25.3	1.0	25	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/13	05:21:32.5	5.400N	94.800E	30.0	4.8			NEIC

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:33:49.0	81.7	91.4	0.8	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/13	11:41:2.4	46.479N	154.882E	33.0N	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:53:02.3	78.8	24.6	1.2	18	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/13	17:02:27.0	22.100N	119.120E	27.1	5.3	4.6		SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 17:14:42.9	81.4	64.6	0.9	38	5.5		
BRG	e P	Z 17:14:45.9	82.0	64.5	1.1	19	5.1		
FBE	e P	Z 17:14:47.7	82.3	64.1	1.1	37	5.5		
	e pP	Z 17:14:55.5							
CLL	e P	Z 17:14:47.4	82.4	63.9	0.9	20	5.4		
	e pP	Z 17:14:55.2							
BSEG	e P	Z 17:14:49.2	82.6	62.2					
GEC2	e P	Z 17:14:51.2	83.0	64.1	1.0	13	5.1		
TANN	e P	Z 17:14:51.1	83.1	63.4	1.1	14	5.1		
	e pP	Z 17:14:58.9							
WERD	e P	Z 17:14:51.5	83.1	63.3	1.7	40	5.4		
GUNZ	e P	Z 17:14:52.0	83.2	63.3	1.1	26	5.4		
WERN	e P	Z 17:14:51.9	83.2	63.3	1.2	29	5.4		
WET	e P	Z 17:14:53.2	83.4	63.6	1.5	23	5.2		
MOX	e P	Z 17:14:53.1	83.4	62.8	1.6	34	5.3		
MANZ	e P	Z 17:14:53.7	83.5	63.1	1.3	18	5.2		
	e pP	Z 17:15:01.5							
ROTZ	e P	Z 17:14:53.9	83.5	63.1	1.1	27	5.4		
	e pP	Z 17:15:01.8							
CLZ	e P	Z 17:14:54.3	83.6	62.0	1.2	35	5.5		
GRA1	e P	Z 17:14:56.9	84.1	62.4	1.7	43	5.4		
	e pP	Z 17:15:04.7							
	e L	Z 17:58:21.4			18.3	230		4.6	
UBBA	e P	Z 17:14:57.0	84.3	61.6	1.4	26	5.3		
IBBN	e P	Z 17:15:00.1	84.8	60.1	1.5	67	5.7		
FUR	e P	Z 17:15:00.3	84.8	62.3	0.8	31	5.6		
BUG	e P	Z 17:15:03.3	85.5	59.6	1.5	46	5.4		
STU	e P	Z 17:15:05.1	85.7	60.9	0.7	10	5.0		
WLF	e P	Z 17:15:10.8	87.0	58.7	1.0	21	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/13	18:26:37.4	46.960N	152.043E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:38:30.5	77.6	26.2	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/14	02:54: 2.9	46.186N	153.797E	33.0N	4.4			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:06:02.7	78.8	25.4	1.1	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/14	07:43: 6.1	47.399N	153.959E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:55:00.0	77.7	24.8	1.1	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/14	10:46:35.0	48.980N	152.510E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 10:58:01.1	72.7	27.0	0.8	25	5.4		
CLL	e P	Z 10:58:08.2	73.9	26.3	0.6	25	5.4		
BRG	e P	Z 10:58:08.8	74.1	26.9	1.1	9	4.7		
CLZ	e P	Z 10:58:10.4	74.2	24.8	0.9	23	5.2		
FBE	e P	Z 10:58:09.9	74.2	26.5	1.2	26	5.1		
TANN	e P	Z 10:58:13.8	74.9	25.9	1.0	9	4.8		
WERD	e P	Z 10:58:14.1	74.9	25.8	1.4	24	5.0		
MOX	e P	Z 10:58:14.1	74.9	25.4	1.3	26	5.1		
GUNZ	e P	Z 10:58:14.7	75.0	25.8	0.8	11	4.9		
WERN	e P	Z 10:58:15.1	75.0	25.8	1.2	21	5.0		
BUG	e P	Z 10:58:16.2	75.3	22.8	1.0	26	5.3		
ROTZ	e P	Z 10:58:18.1	75.5	25.7	0.9	14	5.1		
GRA1	e P	Z 10:58:20.0	75.9	25.0	0.7	32	5.5		
WET	e P	Z 10:58:20.2	75.9	26.0	1.0	16	5.1		
GEC2	e P	Z 10:58:19.8	75.9	26.5	0.6	5	4.8		
TNS	e P	Z 10:58:21.2	76.1	23.4	0.7	15	5.2		
FUR	e P	Z 10:58:27.4	77.2	24.9	0.7	24	5.4		
STU	e P	Z 10:58:27.4	77.3	23.7	0.5	18	5.4		
BFO	e P	Z 10:58:30.8	77.9	23.1	1.2	27	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/14	13:59:37.3	45.824N	154.945E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:11:40.6	79.4	24.8	1.0	13	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/14	17:23:11.3	39.119S	145.103E	33.0N				SZGRF

Bass Strait, Australia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 17:42:42.1	144.3	90.2					
GEC2	e PKPbc	Z 17:42:41.5	144.4	92.8					
CLL	e PKPbc	Z 17:42:43.8	144.8	88.8					
WET	e PKPbc	Z 17:42:43.4	144.9	91.8					
ROTZ	e PKPbc	Z 17:42:45.4	145.4	90.4					
MOX	e PKPbc	Z 17:42:46.4	145.7	88.7					
GRA1	e PKPbc	Z 17:42:47.2	146.0	89.8					
BSEG	e PKPbc	Z 17:42:49.2	146.3	82.7					
CLZ	e PKPbc	Z 17:42:49.1	146.5	85.9					
BFO	e PKPbc	Z 17:42:54.6	147.9	89.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/15	13:19:29.4			N	4.8	4.5		SZGRF

Eastern Arabian Peninsula

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:27:49.5			1.5	14	4.8		
	e L	Z 13:55:50.2			18.8	450		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/15	16:59: 7.9	46.720N	152.520E	33.0N	5.9	5.5		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 17:10:44.6	74.4	25.9	0.9	72	5.8		
RUE	e P	Z 17:10:46.3	74.7	27.9	1.2	178	6.1		
NRDL	e P	Z 17:10:52.1	75.7	25.6	0.9	75	5.7		
CLL	e P	Z 17:10:53.1	76.0	27.3	1.2	245	6.1		

BRG	e P	Z	17:10:54.0	76.1	27.9	1.2	58	5.5
FBE	e P	Z	17:10:54.9	76.2	27.5	1.3	138	5.8
CLZ	e P	Z	17:10:55.4	76.2	25.7	1.1	180	6.0
IBBN	e P	Z	17:10:56.6	76.5	24.0	0.9	111	5.9
TANN	e P	Z	17:10:59.2	76.9	26.9	1.3	54	5.5
WERD	e P	Z	17:10:59.2	76.9	26.8	1.0	58	5.7
MOX	e P	Z	17:10:59.3	77.0	26.3	0.9	82	5.9
GUNZ	e P	Z	17:10:59.7	77.0	26.8	0.9	67	5.8
WERN	e P	Z	17:11:00.1	77.1	26.8	0.8	76	5.9
UBBA	e P	Z	17:11:01.0	77.3	25.3	0.9	46	5.6
BUG	e P	Z	17:11:01.7	77.4	23.6	0.9	120	6.0
MANZ	e P	Z	17:11:02.0	77.4	26.6	0.9	57	5.7
ROTZ	e P	Z	17:11:03.3	77.6	26.6	1.0	91	5.8
GRA1	e P	Z	17:11:05.1	77.9	26.0	1.0	196	6.2
	e L	Z	17:48:58.7			19.3	2362	5.5
GEC2	e P	Z	17:11:04.9	78.0	27.5	0.9	41	5.5
TNS	e P	Z	17:11:06.4	78.2	24.3	0.7	113	6.1
FUR	e P	Z	17:11:12.2	79.3	25.9	1.0	164	6.1
STU	e P	Z	17:11:12.2	79.3	24.6	1.1	143	6.0
BFO	e P	Z	17:11:15.2	80.0	24.0	1.0	140	6.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/15 17:01:14.7 46.373N 153.151E 33.0N 5.7
 Kuril Islands, Russia SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:13:12.6	78.4	25.7	0.9	69	5.7		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/15 18:18:59.7 21.460S 178.950W 33.0G
 Fiji Islands region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 18:37:34.2	146.8	15.9					
CLL	e PKPbc	Z 18:37:39.6	148.7	21.8					
CLZ	e PKPbc	Z 18:37:39.8	148.8	16.9					
BRG	e PKPbc	Z 18:37:40.1	148.9	23.7					
FBE	e PKPbc	Z 18:37:40.5	149.0	22.7					
MOX	e PKPbc	Z 18:37:41.7	149.7	19.7					
TANN	e PKPbc	Z 18:37:42.1	149.7	21.4					
WERD	e PKPbc	Z 18:37:42.0	149.7	21.1					
GUNZ	e PKPbc	Z 18:37:42.5	149.8	21.2					
WERN	e PKPbc	Z 18:37:42.5	149.8	21.3					
MANZ	e PKPbc	Z 18:37:43.5	150.2	21.0					
ROTZ	e PKPbc	Z 18:37:43.7	150.3	21.3					

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GRA1	e	PKPbc	Z	18:37:44.7	150.6	19.6
TNS	e	PKPbc	Z	18:37:44.0	150.7	14.2
GEC2	e	PKPbc	Z	18:37:44.6	150.8	24.7
WLF	e	PKPbc	Z	18:37:47.0	151.5	10.0
BFO	e	PKPbc	Z	18:37:48.1	152.5	14.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/15	22:35:32.6	55.888N	110.087E	33.0N	4.6			SZGRF

Lake Baykal, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:45:00.1	54.9	42.7	1.5	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/15	22:58: 2.8	38.550N	74.280E	102.5	4.8			SZGRF

Tajikistan-Xinjiang border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 23:05:55.2	43.3	82.2	0.7	20	4.9		
FBE	e P	Z 23:05:58.1	43.7	81.9	0.6	25	5.1		
	e pP	Z 23:06:22.2							
GEC2	e P	Z 23:05:59.3	43.8	79.9	0.8	9	4.6		
	e pP	Z 23:06:22.7							
TANN	e P	Z 23:06:02.8	44.3	80.7	0.8	6	4.4		
WERN	e pP	Z 23:06:27.7	44.4	80.5					
GUNZ	e P	Z 23:06:03.8	44.4	80.6	0.8	9	4.8		
WERD	e P	Z 23:06:03.5	44.4	80.7					
ROTZ	e P	Z 23:06:05.6	44.6	79.9	1.3	15	4.8		
	e pP	Z 23:06:29.8							
MANZ	e P	Z 23:06:05.9	44.6	80.1	1.1	9	4.6		
MOX	e P	Z 23:06:07.2	44.8	80.4	1.0	11	4.7		
	e pP	Z 23:06:32.0							
GRA1	e P	Z 23:06:11.0	45.2	79.2	0.9	15	4.9		
BFO	e P	Z 23:06:27.0	47.4	76.1	1.9	39	4.8		
WLF	e P	Z 23:06:35.9	48.4	76.0	0.8	20	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/15	23:00:32.7	48.318N	156.699E	33.0N	4.6			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:12:25.9	77.6	22.7	1.4	7	4.6		

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:46:52.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	03:18:1.2	16.390N	96.240W	78.2	5.0			SZGRF

Oaxaca, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 03:30:30.0	85.3	289.9	1.0	21	5.3		
BSEG	e pP	Z 03:30:54.7	86.1	292.8					
TNS	e P	Z 03:30:36.0	86.5	291.6	1.1	17	5.1		
	e pP	Z 03:30:58.0							
CLZ	e P	Z 03:30:38.6	87.0	293.0	1.1	22	5.2		
BFO	e P	Z 03:30:38.3	87.1	291.6	1.4	9	4.7		
STU	e pP	Z 03:31:03.5	87.5	292.2					
MOX	e P	Z 03:30:43.7	88.2	294.0	1.4	11	5.0		
GRA1	e P	Z 03:30:45.5	88.3	293.7	1.2	20	5.3		
	e pP	Z 03:31:06.8							
WERD	e pP	Z 03:31:06.6	88.7	294.5					
GUNZ	e P	Z 03:30:47.7	88.7	294.5	1.4	15	5.0		
	e pP	Z 03:31:07.2							
MANZ	e P	Z 03:30:46.7	88.7	294.4	1.2	7	4.8		
TANN	e P	Z 03:30:46.6	88.8	294.6	1.3	9	4.8		
	e pP	Z 03:31:07.7							
FBE	e P	Z 03:30:47.4	89.1	295.3	1.5	17	5.1		
	e pP	Z 03:31:09.4							
BRG	e P	Z 03:30:49.2	89.4	295.8	1.1	6	4.7		
	e pP	Z 03:31:10.5							
GEC2	e P	Z 03:30:53.4	90.2	295.6	1.2	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	04:23:31.1	20.780S	176.560W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 04:43:14.5	148.6	17.3					
BRG	e PKPbc	Z 04:43:15.0	148.8	19.2					
FBE	e PKPbc	Z 04:43:15.8	148.9	18.1					
WERD	e PKPbc	Z 04:43:17.1	149.5	16.5					
TANN	e PKPbc	Z 04:43:16.3	149.5	16.8					
WERN	e PKPbc	Z 04:43:17.4	149.7	16.7					
MANZ	e PKPbc	Z 04:43:18.6	150.0	16.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 06:27:58.8							
	e Sn	N 06:28:53.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	08:41:41.5	46.279N	153.466E	33.0N	4.8	4.6		SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:53:40.3	78.6	25.6	1.0	10	4.8		
	e L	Z 09:31:51.5			18.0	269		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	12:40:13.1	20.944S	174.955W	32.6				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 12:59:52.1	146.8	9.0					
	e pPKPbc	Z 13:00:02.3							
CLZ	e PKPbc	Z 12:59:57.3	148.8	9.6					
	e pPKPbc	Z 13:00:07.0							
CLL	e PKPbc	Z 12:59:57.7	149.0	14.5					
	e pPKPbc	Z 13:00:07.2							
BRG	e PKPbc	Z 12:59:58.1	149.3	16.4					
	e pPKPbc	Z 13:00:08.0							
FBE	e PKPbc	Z 12:59:58.7	149.3	15.3					
	e pPKPbc	Z 13:00:08.0							
BUG	e PKPbc	Z 12:59:58.6	149.5	4.1					
MOX	e PKPbc	Z 12:59:59.6	149.9	12.3					
	e pPKPbc	Z 13:00:09.4							
WERD	e PKPbc	Z 13:00:00.4	149.9	13.6					
	e pPKPbc	Z 13:00:10.3							
TANN	e PKPbc	Z 13:00:00.3	150.0	13.9					
	e pPKPbc	Z 13:00:09.8							
GUNZ	e PKPbc	Z 13:00:00.6	150.0	13.7					
MANZ	e PKPbc	Z 13:00:01.0	150.4	13.5					
	e pPKPbc	Z 13:00:11.3							
TNS	e PKPbc	Z 13:00:02.0	150.6	6.5					
ROTZ	e PKPbc	Z 13:00:02.3	150.6	13.7					
	e pPKPbc	Z 13:00:11.9							
GRA1	e PKPbc	Z 13:00:02.2	150.8	11.9					

GEC2 e PKPbc Z 13:00:02.6 151.3 17.0
 e pPKPbc Z 13:00:12.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/17 12:51:10.2 21.970S 173.790W 33.7 5.6 SZGRF
 Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:10:51.2	147.9	7.2					
RUE	e PKPbc	Z	13:10:54.2	148.9	13.7					
IBBN	e PKPbc	Z	13:10:56.0	149.6	2.8					
CLZ	e PKPbc	Z	13:10:56.7	150.0	7.7					
CLL	e PKPdf	Z	13:10:53.8	150.2	12.7					
	i PKPbc	+ Z	13:10:56.9			2.6	470			
	e PKPab	Z	13:11:02.7							
	e pPKPbc	Z	13:11:07.5							
	e PP	Z	13:14:38.3							
	e PSKS	N	13:24:50.9							
	e SS	E	13:33:36.7							
	e SSS	E	13:39:24.1							
	e L	Z	14:20:37.9			20.0	1388			
BRG	e PKPbc	Z	13:10:58.3	150.5	14.7					
	e pPKPbc	Z	13:11:08.3							
FBE	e PKPbc	Z	13:10:58.4	150.5	13.6					
BUG	e PKPbc	Z	13:10:58.6	150.5	2.0					
MOX	e PKPbc	Z	13:10:59.3	151.0	10.4					
	e pPKPbc	Z	13:11:09.2							
WERD	e PKPbc	Z	13:10:59.8	151.1	11.8					
TANN	e PKPbc	Z	13:10:59.7	151.1	12.1					
GUNZ	e PKPbc	Z	13:11:00.1	151.2	11.8					
WERN	e PKPbc	Z	13:11:00.4	151.3	12.0					
	e pPKPbc	Z	13:11:10.4							
MANZ	e PKPbc	Z	13:11:01.0	151.6	11.6					
TNS	e PKPbc	Z	13:11:01.2	151.7	4.4					
	e pPKPbc	Z	13:11:11.3							
ROTZ	e PKPbc	Z	13:11:01.6	151.8	11.8					
GRA1	e PKPbc	Z	13:11:02.3	152.0	9.9					
	e pPKPbc	Z	13:11:13.1							
	e PP	Z	13:14:37.1							
	e L	Z	14:21:46.1			21.0	941		5.6	
WLF	e PKPbc	Z	13:11:02.9	152.3	359.9					
GEC2	e PKPbc	Z	13:11:03.0	152.5	15.2					
STU	e PKPbc	Z	13:11:04.8	153.1	6.1					
FUR	e PKPbc	Z	13:11:05.4	153.5	10.6					
	e pPKPbc	Z	13:11:15.1							
BFO	e PKPbc	Z	13:11:04.7	153.6	4.4					
	e pPKPbc	Z	13:11:15.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	19:24:25.3	47.567N	154.296E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:36:18.9	77.6	24.5	0.9	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	19:57:17.6	20.750S	172.620W	33.0N				SZGRF

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 20:17:01.8	149.1	10.3					
BRG	e PKPbc	Z 20:17:02.6	149.4	12.1					
FBE	e PKPbc	Z 20:17:02.7	149.5	11.0					
MOX	e PKPbc	Z 20:17:03.9	149.9	7.9					
WERD	e PKPbc	Z 20:17:04.1	150.0	9.3					
TANN	e PKPbc	Z 20:17:04.4	150.1	9.6					
GUNZ	e PKPbc	Z 20:17:03.7	150.1	9.3					
WERN	e PKPbc	Z 20:17:04.9	150.2	9.4					
MANZ	e PKPbc	Z 20:17:05.7	150.5	9.0					
ROTZ	e PKPbc	Z 20:17:05.8	150.7	9.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/17	21:10:15.4	3.624N	95.524E	49.6	6.0	5.1		SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 21:22:31.4	81.9	94.3	2.2	531	6.3		
GEC2	e P	Z 21:22:31.8	81.9	93.8	0.9	177	6.2		
CLL	e P	Z 21:22:33.9	82.5	93.6	1.2	79	5.6		
	e pP	Z 21:22:50.2							
	e PP	Z 21:25:38.8							
	e S	N 21:32:38.2							
	e sS	N 21:33:05.1							
	e PS	E 21:33:35.7							
	e L	Z 22:05:17.1			20.0	1024		5.2	
TANN	e P	Z 21:22:36.1	82.8	93.0					
ROTZ	e P	Z 21:22:37.4	82.9	92.8					
MANZ	e P	Z 21:22:37.9	83.0	92.7					
MOX	e P	Z 21:22:38.9	83.3	92.4	0.9	63	5.8		
FUR	e P	Z 21:22:39.3	83.5	91.9	0.8	105	6.1		

2006/12/19

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:05:15.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/19	06:43:32.9	45.827N	152.172E	33.0N	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:55:32.0	78.6	26.6	0.9	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/19	12:48:16.1	1.670N	97.650E	64.2	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:00:42.2	84.7	93.8	1.0	8	4.9		
GEC2	e P	Z 13:00:42.4	84.8	93.5	1.1	18	5.2		
FBE	e P	Z 13:00:44.2	85.1	93.4	1.3	20	5.2		
CLL	e P	Z 13:00:44.5	85.4	93.1	0.8	7	4.9		
TANN	e P	Z 13:00:46.6	85.6	92.6	1.2	8	4.7		
WERN	e P	Z 13:00:47.2	85.7	92.6	1.5	19	5.0		
GUNZ	e P	Z 13:00:47.2	85.7	92.5	1.1	9	4.8		
WERD	e P	Z 13:00:47.1	85.7	92.5	1.2	8	4.7		
ROTZ	e P	Z 13:00:47.4	85.8	92.4	0.8	7	4.8		
MANZ	e P	Z 13:00:48.3	85.9	92.3	1.0	14	5.1		
MOX	e P	Z 13:00:49.3	86.2	92.0	1.6	13	4.8		
GRA1	e P	Z 13:00:50.8	86.4	91.6	0.9	13	5.1		
	e pP	Z 13:01:08.7							
CLZ	e P	Z 13:00:53.5	87.0	91.1	1.0	14	5.1		
BSEG	e P	Z 13:00:53.7	87.1	91.2	1.1	23	5.2		
TNS	e P	Z 13:00:59.0	88.2	89.5	1.2	14	5.2		
BFO	e P	Z 13:00:59.4	88.3	89.4	1.0	10	5.1		
IBBN	e P	Z 13:01:01.6	88.6	89.1	1.0	39	5.6		
BUG	e P	Z 13:01:03.1	88.9	88.7	0.9	32	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/19	19:36:53.8	46.526N	155.441E	33.0N	4.5			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:48:54.4	78.9	24.2	1.1	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/19	19:58:27.7	20.028S	174.396W	10.0G				NEIC
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc	+ Z	20:18:15.9	148.2	13.3	1.1	55			
	e PKPab	Z	20:18:20.1							
	e		20:18:26.3							
	e L	Z	21:41:40.1			18.0	366		5.2	
GRA1	e PKPbc	Z	20:18:20.6	150.0	10.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/20								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	21:17:02.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/20	23:18:27.3	48.368N	156.352E	33.0N	4.8			SZGRF
East of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:30:19.7	77.4	22.9	0.9	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/20	23:55:57.8	12.567N	124.501E	33.0N	5.4	5.1		SZGRF
Samar, Philippine Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	00:09:00.9	91.6	65.6	1.3	93	6.0		
RUE	e P	Z	00:09:05.0	92.2	66.0	0.9	29	5.6		
BRG	e P	Z	00:09:07.4	92.7	66.2	1.1	12	5.2		
FBE	e P	Z	00:09:08.6	93.0	65.7	1.1	21	5.5		
CLL	e P	Z	00:09:08.5	93.1	65.4	1.3	20	5.4		
BSEG	e P	Z	00:09:10.4	93.4	63.1	1.4	27	5.4		
GEC2	e P	Z	00:09:12.4	93.7	66.1	2.4	41	5.3		
TANN	e P	Z	00:09:12.8	93.8	65.1	1.5	10	4.9		
WERD	e P	Z	00:09:12.6	93.8	64.9	1.7	16	5.1		
GUNZ	e P	Z	00:09:12.6	93.9	65.0	1.2	13	5.1		
WERN	e P	Z	00:09:12.0	93.9	65.0	1.2	14	5.2		

WET	e P	Z	00:09:13.7	94.1	65.5	1.7	18	5.1	
MANZ	e P	Z	00:09:13.5	94.2	64.8	2.1	44	5.4	
MOX	e P	Z	00:09:14.0	94.2	64.4	1.3	12	5.1	
ROTZ	e P	Z	00:09:14.7	94.2	64.9	1.6	16	5.1	
CLZ	e P	Z	00:09:14.7	94.3	63.3	1.4	31	5.4	
GTTG	e P	Z	00:09:16.5	94.7	63.0	2.3	110	5.9	
GRA1	e P	Z	00:09:16.4	94.8	64.1	1.5	20	5.3	
	e L	Z	00:56:19.2			18.4	549		5.1
UBBA	e P	Z	00:09:17.5	95.0	63.1	2.2	71	5.7	
FUR	e P	Z	00:09:20.7	95.4	64.3	1.3	30	5.7	
TNS	e P	Z	00:09:23.6	96.1	61.9	1.0	10	5.3	
STU	e P	Z	00:09:24.6	96.4	62.6	0.6	15	5.8	
BFO	e P	Z	00:09:27.0	97.1	62.0	2.6	80	5.9	
WLF	e P	Z	00:09:30.9	97.7	60.1	1.2	26	5.8	

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/21 09:11:53.8 11.697N 43.521E 33.0N 4.7
 Ethiopia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:20:17.2	46.4	133.7	1.4	10	4.7		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/21 16:34:24.5 20.306S 178.200W 33.0N
 Fiji Islands region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	16:54:00.2	145.7	14.3					
CLZ	e PKPbc	Z	16:54:05.9	147.8	15.2					
CLL	e PKPbc	Z	16:54:05.6	147.8	20.0					
	e PKPab	Z	16:54:10.8							
BRG	e PKPbc	Z	16:54:06.2	148.0	21.8					
	e PKPab	Z	16:54:11.9							
FBE	e PKPbc	Z	16:54:06.7	148.1	20.8					
	e PKPab	Z	16:54:12.2							
GTTG	e PKPbc	Z	16:54:06.7	148.1	14.6					
MOX	e PKPbc	Z	16:54:08.1	148.7	17.9					
WERD	e PKPab	Z	16:54:14.5	148.7	19.2					
GUNZ	e PKPbc	Z	16:54:08.4	148.8	19.3					
	e PKPab	Z	16:54:14.9							
WERN	e PKPbc	Z	16:54:08.2	148.9	19.4					
	e PKPab	Z	16:54:15.6							
MANZ	e PKPbc	Z	16:54:09.4	149.2	19.1					
ROTZ	e PKPbc	Z	16:54:10.0	149.4	19.4					
TNS	e PKPbc	Z	16:54:10.4	149.6	12.4					

GRA1	e	PKPbc	Z	16:54:10.7	149.7	17.7
WET	e	PKPab	Z	16:54:19.6	149.8	21.0
GEC2	e	PKPbc	Z	16:54:11.0	149.9	22.7
BFO	e	PKPab	Z	16:54:26.2	151.5	12.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/21	18:30:54.7	39.427N	23.605E	15.0G		4.5		THE

Aegean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 18:33:44.0	11.8	139.4					
WET	e Pn	Z 18:33:51.0	12.4	137.8					
FUR	e Pn	Z 18:33:58.3	12.4	130.0					
ROTZ	e Pn	Z 18:34:01.4	13.1	137.7					
BRG	e Pn	Z 18:34:03.2	13.3	145.7					
MANZ	e Pn	Z 18:34:04.5	13.3	138.1					
WERN	e Pn	Z 18:34:05.3	13.4	139.6					
TANN	e Pn	Z 18:34:04.5	13.5	140.2					
GRA1	e Pn	Z 18:34:04.9	13.5	134.8					
	e L	Z 18:40:16.3			15.7	3251		4.5	
GUNZ	e Pn	Z 18:34:04.9	13.5	139.7					
WERD	e Pn	Z 18:34:06.5	13.6	139.9					
STU	e Pn	Z 18:34:13.4	13.9	126.8					
CLL	e Pn	Z 18:34:11.7	14.0	144.0					
MOX	e Pn	Z 18:34:13.2	14.0	138.5					
BFO	e Pn	Z 18:34:15.2	14.1	123.4					
UBBA	e Pn	Z 18:34:26.8	14.8	134.8					
TNS	e Pn	Z 18:34:33.1	15.2	129.5					
GTTG	e Pn	Z 18:34:32.8	15.4	136.6					
CLZ	e Pn	Z 18:34:34.7	15.4	138.4					
WLF	e Pn	Z 18:34:45.3	16.0	123.0					
BUG	e Pn	Z 18:34:50.6	16.5	130.2					
BSEG	e Pn	Z 18:34:52.3	17.1	142.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/22	00:12:47.4	21.290S	177.880W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 00:32:25.3	146.8	14.0					
CLZ	e PKPbc	Z 00:32:31.5	148.8	15.0					
CLL	e PKPbc	Z 00:32:31.3	148.8	19.9					
	e PKPab	Z 00:32:35.2							
BRG	e PKPbc	Z 00:32:31.9	149.0	21.8					
FBE	e PKPbc	Z 00:32:32.2	149.1	20.7					

	e	PKPab	Z	00:32:36.7					
MOX	e	PKPbc	Z	00:32:33.7	149.7	17.7			
	e	PKPab	Z	00:32:38.8					
TANN	e	PKPbc	Z	00:32:33.9	149.8	19.4			
WERD	e	PKPbc	Z	00:32:33.3	149.8	19.1			
	e	PKPab	Z	00:32:39.1					
GUNZ	e	PKPbc	Z	00:32:34.4	149.8	19.2			
WERN	e	PKPbc	Z	00:32:34.3	149.9	19.3			
	e	PKPab	Z	00:32:39.9					
MANZ	e	PKPbc	Z	00:32:35.4	150.2	19.0			
ROTZ	e	PKPbc	Z	00:32:35.9	150.4	19.3			
	e	PKPab	Z	00:32:42.3					
TNS	e	PKPbc	Z	00:32:36.4	150.6	12.1			
GRA1	e	PKPbc	Z	00:32:36.5	150.7	17.5			
	e	PKPab	Z	00:32:43.4					
GEC2	e	PKPbc	Z	00:32:36.2	150.9	22.6			
STU	e	PKPbc	Z	00:32:39.2	151.9	14.1			
BFO	e	PKPbc	Z	00:32:40.1	152.5	12.6			
	e	PKPab	Z	00:32:50.5					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/22 01:11:34.9 43.313N 43.957E 33.0N 4.3
 Western Caucasus

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:16:39.5	23.2	93.3	1.2	12	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/22 03:47:1.4 46.244N 153.273E 33.0N 4.5
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:59:00.1	78.6	25.7	0.8	4	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/22 11:04:37.8 52.500N 157.500E 33.0N 5.0
 Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 11:16:00.6	72.0	21.8	0.9	14	5.1		
CLZ	e P	Z 11:16:02.0	72.1	20.3	1.0	23	5.3		
BRG	e P	Z 11:16:01.8	72.2	22.3	0.6	4	4.7		
IBBN	e P	Z 11:16:02.1	72.2	18.8					

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FBE	e P	Z	11:16:02.9	72.3	22.0	1.4	25	5.2
MOX	e P	Z	11:16:06.4	72.9	20.9	0.6	5	4.8
WERD	e P	Z	11:16:06.9	72.9	21.3	1.2	14	5.0
GUNZ	e P	Z	11:16:07.1	73.0	21.3	1.1	8	4.8
WERN	e P	Z	11:16:07.5	73.1	21.3	1.1	16	5.0
BUG	e P	Z	11:16:07.4	73.1	18.4	0.7	22	5.4
MANZ	e P	Z	11:16:09.7	73.4	21.1	0.9	5	4.5
ROTZ	e P	Z	11:16:10.6	73.6	21.2	0.8	5	4.7
GRA1	e P	Z	11:16:12.6	73.9	20.6	1.0	22	5.2
TNS	e P	Z	11:16:13.0	74.0	19.0	0.9	16	5.1
WET	e P	Z	11:16:13.4	74.0	21.5	1.1	14	4.9
GEC2	e P	Z	11:16:13.1	74.1	22.0	0.7	7	4.8
BFO	e P	Z	11:16:23.3	75.8	18.8	0.9	14	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/22	13:51:53.6	19.220S	178.460W	589.7				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	14:10:29.1	146.7	15.3					
CLL	e PKPbc	Z	14:10:28.7	146.7	20.0					
BRG	e PKPbc	Z	14:10:29.6	146.9	21.8					
FBE	e PKPbc	Z	14:10:30.1	146.9	20.8					
	e pPKPbc	Z	14:12:44.7							
MOX	e PKPbc	Z	14:10:31.5	147.6	17.9					
TANN	e PKPbc	Z	14:10:31.9	147.6	19.5					
WERD	e PKPbc	Z	14:10:31.5	147.6	19.2					
GUNZ	e PKPbc	Z	14:10:32.3	147.7	19.3					
WERN	e PKPbc	Z	14:10:32.9	147.8	19.4					
MANZ	e PKPbc	Z	14:10:33.5	148.1	19.1					
	e pPKPbc	Z	14:12:47.4							
ROTZ	e PKPbc	Z	14:10:34.1	148.3	19.4					
TNS	e PKPbc	Z	14:10:34.4	148.5	12.6					
GRA1	e PKPbc	Z	14:10:35.1	148.6	17.7					
	e pPKPbc	Z	14:12:48.9							
WET	e PKPbc	Z	14:10:35.3	148.7	20.9					
GEC2	e PKPbc	Z	14:10:35.3	148.8	22.6					
WLF	e PKPbc	Z	14:10:36.7	149.3	8.6					
BFO	e PKPbc	Z	14:10:39.2	150.4	13.1					
	e pPKPbc	Z	14:12:53.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/22	17:37:19.4				4.7			SZGRF
Southeastern Siberia, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:47:35.8			1.0	5	4.7		
	e pP	Z 17:47:38.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:09:32.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/22	19:50:44.2	10.557N	92.782E	23.0G	5.6	6.1		SZGRF
Andaman Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 20:02:21.2	74.8	91.9	1.5	85	5.6		
	e S	R 20:11:52.7							
GEC2	e P	Z 20:02:22.4	74.9	91.2	1.1	54	5.5		
	e S	T 20:11:53.9							
RUE	e P	Z 20:02:22.8	75.0	92.2	1.4	159	5.9		
FBE	e P	Z 20:02:24.4	75.2	91.5	1.3	120	5.8		
CLL	i P	+ Z 20:02:24.4	75.4	91.3	1.2	49	5.4		
	e pP	Z 20:02:31.3							
	e PP	Z 20:05:20.7							
	e S	N 20:11:59.0							
	e SKSac	E 20:12:31.5							
	e PPS	Z 20:12:54.2							
	e SS	E 20:17:00.1							
	e SSS	N 20:20:26.8							
	e L	Z 20:42:01.0			18.0	10299		6.2	
WET	e P	Z 20:02:25.5	75.4	90.6	1.3	48	5.4		
	e S	R 20:12:00.2							
TANN	e P	Z 20:02:26.9	75.7	90.6	1.4	42	5.4		
WERN	e P	Z 20:02:27.7	75.8	90.5	1.3	34	5.3		
GUNZ	e P	Z 20:02:28.0	75.8	90.5	1.3	45	5.5		
WERD	e P	Z 20:02:27.7	75.8	90.5	1.3	46	5.4		
ROTZ	e P	Z 20:02:28.7	75.9	90.3	1.2	65	5.6		
	e S	R 20:12:05.9							
MANZ	e P	Z 20:02:29.2	76.0	90.2	1.3	84	5.7		
MOX	e P	Z 20:02:30.3	76.3	90.0	1.7	102	5.7		
	e S	R 20:12:12.2							
FUR	e P	Z 20:02:31.3	76.5	89.2	1.2	48	5.5		
GRA1	e S	R 20:12:18.3	76.5	89.5					
	e L	T 20:36:57.1			22.0	9608		6.1	
CLZ	e P	Z 20:02:34.8	77.0	89.3	1.4	96	5.7		

	e S	T	20:12:14.5							
BSEG	e P	Z	20:02:35.2	77.1	89.8	1.2	100	5.8		
GTTG	e P	Z	20:02:36.2	77.3	89.0	1.3	73	5.6		
STU	e P	Z	20:02:39.2	77.9	87.8					
TNS	e P	Z	20:02:41.9	78.3	87.5	1.4	54	5.5		
BFO	e P	Z	20:02:42.3	78.5	87.0	1.3	50	5.4		
	e S	T	20:12:33.3							
IBBN	e P	Z	20:02:43.9	78.6	87.4	1.3	119	5.7		
BUG	e P	Z	20:02:45.8	79.0	86.8	1.7	139	5.7		
	e S	R	20:12:42.0							
WLF	e S	R	20:12:49.2	79.8	85.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/23	08:12: 5.2	46.326N	153.249E	33.0N	4.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:24:03.5	78.5	25.7	1.3	3	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/23	17:57: 2.6	47.557N	155.833E	33.0N	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:08:58.5	78.1	23.5	1.0	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/23	21:20:25.2	51.276N	179.156W	33.0N	4.1			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:32:24.3	78.6	6.6	0.9	2	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/23	22:59:47.0	6.801S	105.584E	87.0G				NEIC

Sunda Strait, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 23:13:13.9	98.0	91.1					
	e PP	Z 23:17:13.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	01:58:27.8	39.350N	75.250E	33.0N	5.0	4.7		SZGRF

Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:06:28.9	43.4	80.6	0.9	15	4.8		
FBE	e P	Z	02:06:32.0	43.8	80.3	0.9	27	5.0		
CLL	e P	Z	02:06:32.6	43.9	80.4	0.8	14	4.7		
GEC2	e P	Z	02:06:33.2	44.0	78.4	0.8	18	4.8		
WET	e P	Z	02:06:36.6	44.4	78.2	0.8	13	4.9		
TANN	e P	Z	02:06:37.3	44.4	79.2	1.1	14	4.8		
WERN	e P	Z	02:06:36.6	44.5	79.0					
WERD	e P	Z	02:06:37.5	44.5	79.1	0.9	10	4.8		
GUNZ	e P	Z	02:06:37.7	44.5	79.0	0.9	13	4.8		
ROTZ	e P	Z	02:06:39.2	44.7	78.4	1.2	13	4.7		
MANZ	e P	Z	02:06:40.1	44.7	78.5	1.0	9	4.6		
MOX	e P	Z	02:06:40.7	44.9	78.9	1.1	14	4.8		
BSEG	e P	Z	02:06:43.0	45.1	81.2	0.8	19	5.1		
GRA1	e P	Z	02:06:45.1	45.4	77.7	0.9	28	5.3		
	e L	Z	02:26:23.4			19.0	884		4.7	
CLZ	e P	Z	02:06:45.2	45.5	79.2	2.0	54	5.2		
FUR	e P	Z	02:06:47.4	45.7	76.2	0.8	35	5.4		
GTTG	e P	Z	02:06:48.1	45.8	78.6	0.8	28	5.3		
STU	e P	Z	02:06:56.5	46.9	75.6	0.9	19	5.2		
IBBN	e P	Z	02:06:56.7	46.9	77.9					
BFO	e P	Z	02:07:01.4	47.5	74.7	0.9	11	5.0		
WLF	e P	Z	02:07:08.7	48.6	74.5	1.0	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:11:28.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	04:36:46.1	41.570N	26.205W	33.0N	4.3			SZGRF

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:42:26.2	27.1	267.0	1.3	9	4.3		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	05:07:40.0	4.600S	153.200E	85				NEIC

New Ireland, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 05:26:30.2	124.5	48.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	08:38:42.1	18.410S	178.341W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 08:58:17.7	145.9	19.4					
BRG	e PKPbc	Z 08:58:18.8	146.1	21.2					
FBE	e PKPbc	Z 08:58:18.8	146.2	20.2					
NEUB	e PKPbc	Z 08:58:18.9	146.2	17.4					
TANN	e PKPbc	Z 08:58:20.6	146.9	19.0					
WERD	e PKPbc	Z 08:58:20.6	146.9	18.7					
GUNZ	e PKPbc	Z 08:58:21.1	146.9	18.8					
WERN	e PKPbc	Z 08:58:21.2	147.0	18.9					
GEC2	e PKPbc	Z 08:58:24.0	148.0	22.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	09:46:26.0	5.200S	144.900E	65.0				NEIC

New Guinea, Papua New Guinea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:05:11.0	120.9	57.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	10:26:21.9	33.766N	26.878E	33.0G	4.2			SZGRF

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:30:28.0	18.0	142.1	1.5	30	4.2		
FUR	e P	Z 10:30:34.5	18.5	135.3	0.9	18	4.3		
WET	e P	Z 10:30:34.2	18.6	140.8	1.5	23	4.2		
ROTZ	e P	Z 10:30:45.0	19.3	140.5	1.2	7	3.8		
MANZ	e P	Z 10:30:46.0	19.5	140.6	1.2	16	4.1		
BRG	e P	Z 10:30:46.4	19.5	146.2	1.1	9	3.9		
WERN	e P	Z 10:30:47.3	19.6	141.7	1.2	15	4.1		
GRA1	e P	Z 10:30:47.0	19.7	138.2	1.7	47	4.5		
TANN	e P	Z 10:30:47.5	19.7	142.1	1.8	42	4.4		

FBE	e P	Z	10:30:48.1	19.8	144.9	0.9	13	4.1
WERD	e P	Z	10:30:49.4	19.8	141.9	1.4	22	4.2
BFO	e P	Z	10:30:52.0	20.1	129.7	1.2	11	3.9
MOX	e P	Z	10:30:54.0	20.2	140.7			
TNS	e P	Z	10:31:04.5	21.3	133.6	1.2	16	4.2
GTTG	e P	Z	10:31:07.8	21.6	138.9	1.0	18	4.5
CLZ	e P	Z	10:31:08.2	21.6	140.2	1.7	21	4.3
BUG	e P	Z	10:31:21.4	22.7	133.6	1.0	8	4.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	10:55:21.5	44.912N	10.222E	10.0G			3.3	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pg	Z	10:56:03.6	2.4	174.2					2.9
	e Sg	E	10:56:36.1							
WTTA	e Pg	Z	10:56:06.1	2.5	203.2					3.2
KBA	e Pn	Z	10:56:10.9	3.1	226.2					3.1
BFO	e Pn	Z	10:56:19.9	3.7	158.5					3.3
	e Sn	E	10:57:00.8							
GEC2	e Pn	Z	10:56:30.5	4.6	212.4					3.4
	e Sn	N	10:57:23.6							
WET	e Pn	Z	10:56:30.7	4.6	204.1					3.4
	e Sn	N	10:57:23.4							
GRA1	e Pn	Z	10:56:32.7	4.8	188.4					3.7
	e Sn	N	10:57:29.2							
TNS	e Pn	Z	10:56:43.3	5.4	166.6					
TANN	e Pn	Z	10:56:45.2	5.7	196.2					
MOX	e Pn	Z	10:56:46.1	5.8	189.8					
	e Sn	N	10:57:52.7							
BRG	e Pn	Z	10:56:55.8	6.5	204.1					
	e Sn	N	10:58:07.8							
CLL	e Pn	Z	10:56:58.0	6.7	197.2					
CLZ	e Pn	Z	10:57:02.5	6.9	180.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/24	14:26: 9.4	51.303N	178.021W	33.0N	4.5	4.3		SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:38:08.8	78.7	5.9	1.2	6	4.5		
	e L	Z	15:08:00.1			21.1	164		4.3	

GRA1 e PKP Z 08:34:02.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/25	10:29:10.7	26.752S	66.467E	10.0G	5.0			NEIC

Indian Ocean Triple Junction

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z 10:42:09.7	89.6	134.1	1.2	6	4.7		
FUR	e P	Z 10:42:11.4	89.7	132.8	0.9	22	5.4		
BRG	e P	Z 10:42:14.6	90.4	134.9	1.5	13	4.9		
MANZ	e P	Z 10:42:15.4	90.6	133.5	1.6	14	5.0		
FBE	e P	Z 10:42:15.6	90.7	134.4	1.6	20	5.1		
WERN	e P	Z 10:42:15.9	90.7	133.7	1.3	9	4.8		
TANN	e P	Z 10:42:15.8	90.7	133.7	1.5	11	4.8		
GUNZ	e P	Z 10:42:15.7	90.7	133.6	1.4	16	5.0		
GRA1	e P	Z 10:42:15.9	90.8	132.8	1.6	28	5.3		
WERD	e P	Z 10:42:16.4	90.8	133.6	1.3	7	4.8		
MOX	e P	Z 10:42:17.6	91.3	133.1	1.7	22	5.2		
CLZ	e P	Z 10:42:25.1	92.6	132.1	1.5	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/25	14:08:49.3	34.230N	22.890E	10.0G	4.4	4.1		SZGRF

Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z 14:12:46.1	16.6	149.9	1.4	63	4.5		
ROTZ	e P	Z 14:12:53.7	17.4	149.2	1.4	39	4.4		
MANZ	e P	Z 14:12:57.3	17.6	149.3	1.5	70	4.6		
GRA1	e P	Z 14:12:58.2	17.7	146.6	1.4	138	4.9		
	e L	Z 14:21:01.0			18.0	961		4.1	
STU	e P	Z 14:12:58.9	17.7	140.0	0.9	13	4.1		
BFO	e P	Z 14:12:56.9	17.8	137.1	1.7	54	4.4		
WERN	e P	Z 14:12:59.4	17.8	150.4	1.5	42	4.4		
BRG	e P	Z 14:12:59.9	17.9	155.2	1.5	33	4.2		
GUNZ	e P	Z 14:12:59.7	17.9	150.4	1.2	37	4.4		
TANN	e P	Z 14:13:00.6	17.9	150.8	1.5	44	4.4		
WERD	e P	Z 14:13:00.9	18.0	150.5	1.5	49	4.4		
FBE	e P	Z 14:13:01.9	18.1	153.8	1.3	49	4.5		
CLL	e P	Z 14:13:07.0	18.5	153.4	1.2	32	4.4		
TNS	e P	Z 14:13:14.8	19.2	141.1	1.5	30	4.3		
WLF	e P	Z 14:13:21.1	19.7	135.2	1.4	46	4.5		
CLZ	e P	Z 14:13:20.6	19.8	148.0	1.0	14	4.1		
BUG	e P	Z 14:13:30.2	20.6	140.7	1.1	35	4.6		
IBBN	e P	Z 14:13:35.6	21.1	143.1	0.9	23	4.5		
BSEG	e P	Z 14:13:39.5	21.6	150.7	1.0	49	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/25								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:22:44.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/25	14:56:49.8	33.467N	22.102E	33.0G	3.8			SZGRF
Central Mediterranean Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 15:00:42.6	16.8	147.1	0.8	23			
WET	e P	Z 15:00:45.1	17.1	153.0	1.3	17			
ROTZ	e P	Z 15:00:53.6	17.9	152.1	1.0	8			
BFO	e P	Z 15:00:55.5	18.1	140.2	1.2	8	3.7		
MANZ	e P	Z 15:00:57.2	18.1	152.2	1.4	22			
GRA1	e P	Z 15:00:56.9	18.1	149.6	1.5	54			
WERN	e P	Z 15:00:58.4	18.3	153.3	1.2	10			
GUNZ	e P	Z 15:01:00.6	18.4	153.3	1.2	13			
TANN	e P	Z 15:00:59.7	18.4	153.7	1.5	13			
FBE	e P	Z 15:01:01.5	18.6	156.5	1.2	11	3.8		
CLL	e P	Z 15:01:08.2	19.0	156.1	1.0	6	3.7		
TNS	e P	Z 15:01:14.0	19.5	143.9	1.1	8			
CLZ	e P	Z 15:01:23.1	20.2	150.6	1.6	15	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/25	15:37:50.8	47.365N	152.401E	33.0N	4.9			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:49:42.5	77.3	25.8	0.9	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/25	20:00:57.9	40.808N	76.371E	33.0N	5.8	5.6		SZGRF
Kyrgyzstan-Xinjiang border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 20:08:52.8	43.0	81.6	1.6	449	5.9		
BRG	e P	Z 20:08:55.6	43.3	78.2	1.7	171	5.5		
FBE	e P	Z 20:08:58.5	43.6	77.8					

CLL	i P	+ Z	20:08:59.3	43.8	78.0	1.6	155	5.5		
	e PP	Z	20:10:40.7							
	e S	N	20:15:22.0							
	e SS	N	20:18:29.2							
	e ScS	E	20:18:53.6							
	e LR	Z	20:22:07.6							
	e L	Z	20:30:23.0			18.0	15863	6.0		
GEC2	e P	Z	20:09:01.4	43.9	75.9	1.7	292	5.7		
TANN	e P	Z	20:09:04.0	44.3	76.8					
WET	e P	Z	20:09:04.7	44.3	75.8	1.8	185	5.5		
WERN	e P	Z	20:09:04.8	44.4	76.6					
WERD	e P	Z	20:09:04.6	44.4	76.7					
GUNZ	e P	Z	20:09:04.8	44.4	76.6					
ROTZ	e P	Z	20:09:07.0	44.6	76.0					
MANZ	e P	Z	20:09:06.9	44.6	76.1					
MOX	e P	Z	20:09:07.6	44.8	76.5	1.7	160	5.7		
BSEG	e P	Z	20:09:07.9	44.8	78.8					
GRA1	e P	Z	20:09:12.4	45.2	75.3	2.3	739	6.2		
	e PP	Z	20:11:01.8							
	e S	N	20:15:48.7							
	e SS	N	20:19:07.8							
	e L	Z	20:28:19.1			20.6	7192	5.6		
GRFO	e P	Z	20:09:12.4	45.2	75.3					
CLZ	e P	Z	20:09:11.2	45.2	76.8	1.8	133	5.6		
GTTG	e P	Z	20:09:13.9	45.6	76.3					
FUR	e P	Z	20:09:15.5	45.6	73.9	2.0	902	6.4		
HLG	e P	Z	20:09:18.5	46.2	77.4					
IBBN	e P	Z	20:09:22.5	46.7	75.6					
STU	e P	Z	20:09:23.8	46.8	73.3					
TNS	e P	Z	20:09:24.0	46.8	74.1	1.6	83	5.6		
BUG	e P	Z	20:09:26.8	47.2	74.5					
BFO	e P	Z	20:09:29.0	47.4	72.4	1.8	215	6.0		
WLF	e P	Z	20:09:36.6	48.4	72.3					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/25 20:28:25.9 46.068N 153.408E 33.0N 4.6
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:40:25.7	78.8	25.7	1.0	7	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/26 01:11:9.7 23.446S 179.738E 33.0N
 South of Fiji Islands

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:30:53.0	148.5	18.8					
CLL	e PKPdf	Z	01:30:51.2	150.3	25.2					
	e PKPbc	Z	01:30:57.0							
BRG	e PKPdf	Z	01:30:51.7	150.4	27.2					
	e PKPbc	Z	01:30:57.8							
CLZ	e PKPdf	Z	01:30:51.7	150.5	20.1					
	e PKPbc	Z	01:30:57.7							
IBBN	e PKPbc	Z	01:30:58.3	150.5	15.1					
TANN	e PKPbc	Z	01:30:59.6	151.3	24.9					
MOX	e PKPbc	Z	01:30:59.5	151.3	23.1					
MANZ	e PKPbc	Z	01:31:00.7	151.8	24.5					
GRA1	e PKPbc	Z	01:31:02.3	152.3	23.1					
	e PKPab	Z	01:31:10.5							
TNS	e PKPbc	Z	01:31:02.0	152.4	17.4					
WLF	e PKPbc	Z	01:31:04.9	153.3	13.2					
	e PKPab	Z	01:31:13.0							
STU	e PKPbc	Z	01:31:04.6	153.6	19.8					
FUR	e PKPab	Z	01:31:15.8	153.6	24.4					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/26

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	07:47:58.4							

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/26 07:58: 3.7 46.354N 152.447E 33.0N 5.0 SZGRF
 Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:10:00.6	78.2	26.2	1.3	19	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/26 10:40: 6.8 55.391N 3.298W 10.0G 4.1 SZGRF
 United Kingdom

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e Pn	Z	10:41:52.2	7.2	299.7					4.1
BUG	e Pn	Z	10:41:54.6	7.4	306.3					4.2
	e Sn	N	10:43:14.1							
BSEG	e Pn	Z	10:42:02.0	8.0	286.0					
	e Sn	E	10:43:29.2							

WLF	e Sn	E	10:43:32.0	8.1	318.6
NRDL	e Pn	Z	10:42:07.6	8.4	295.5
TNS	e Pn	Z	10:42:12.3	8.8	310.6
CLZ	e Pn	Z	10:42:12.6	8.8	299.1
	e Sn	E	10:43:50.1		
MOX	e Pn	Z	10:42:30.8	10.1	303.7
GRA1	e Pn	Z	10:42:36.9	10.5	308.5

4.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	10:40:2.0	46.435N	152.706E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:51:58.8	78.2	26.0	1.1	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	12:26:26.5	22.040N	121.010E	43.7	6.7	7.4		SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 12:38:41.7	81.8	63.1	1.2	521	6.5		
RUE	e P	Z 12:38:45.3	82.5	63.2	1.3	734	6.7		
	e pP	Z 12:38:57.7							
BRG	e P	Z 12:38:48.5	83.1	63.2	1.5	619	6.6		
CLL	e P	Z 12:38:49.4	83.5	62.5	1.2	837	6.9		
	e	12:39:04.9							
	e PP	Z 12:42:03.5							
	e S	N 12:49:08.5							
	e PS	E 12:50:06.0							
	e PPS	E 12:50:27.0							
	e SS	E 12:54:42.7							
	e PKKPbc	Z 12:57:09.4							
	e SSS	N 12:58:11.1							
	e PKPPKPdf	Z 13:05:13.0							
	e L	Z 13:21:46.6			18.0	316461		7.7	
BSEG	e P	Z 12:38:51.4	83.7	60.7	1.1	331	6.5		
WET	e P	Z 12:38:55.9	84.5	62.2	1.7	622	6.6		
MOX	e P	Z 12:38:55.7	84.6	61.4	1.5	504	6.5		
HLG	e P	Z 12:38:56.9	84.8	58.9	2.7	2442	7.0		
GRA1	e P	Z 12:38:59.3	85.2	61.1	1.9	2056	7.0		
	e pP	Z 12:39:12.4							
	e L	Z 13:26:21.9			20.9	152514		7.4	
IBBN	e P	Z 12:39:01.9	85.8	58.6	1.1	509	6.6		
FUR	e P	Z 12:39:02.8	85.9	61.0	1.4	1431	6.9		
TNS	e P	Z 12:39:05.7	86.5	59.0	2.7	1801	6.7		

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BUG	e P	Z	12:39:05.3	86.5	58.2	1.5	481	6.4
STU	e P	Z	12:39:06.9	86.8	59.5	3.0	2370	6.8
BFO	e P	Z	12:39:10.2	87.6	58.9	2.8	1242	6.7
WLF	e P	Z	12:39:13.2	88.1	57.3	1.2	305	6.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	12:34:23.4	23.302N	120.457E	33.0N	7.1			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:46:39.8	81.8	62.8	2.6	3438	7.0		
CLL	e P	Z 12:46:41.3	82.2	62.2	1.3	506	6.6		
	e pP	Z 12:46:45.4							
	e	12:47:00.7							
	e PP	Z 12:49:58.6							
	e S	N 12:56:54.8							
	e SS	N 13:02:32.6							
	e PKKpbc	Z 13:05:01.1							
	e L	Z 13:29:41.9			20.0	184375		7.5	
BSEG	e P	Z 12:46:42.5	82.3	60.5	2.9	4819	7.2		
TANN	e P	Z 12:46:45.0	82.9	61.7					
GEC2	e P	Z 12:46:45.2	82.9	62.4	3.0	3950	7.1		
NRDL	e P	Z 12:46:46.6	83.1	60.1					
MOX	e P	Z 12:46:46.9	83.2	61.1	2.7	3524	7.1		
WET	e P	Z 12:46:47.2	83.2	61.8	2.7	3385	7.1		
ROTZ	e P	Z 12:46:47.8	83.3	61.4					
CLZ	e P	Z 12:46:47.8	83.3	60.3	1.9	1992	7.0		
GRA1	e P	Z 12:46:50.4	83.9	60.7	2.1	2940	7.1		
IBBN	e P	Z 12:46:53.2	84.5	58.3					
FUR	e P	Z 12:46:54.2	84.6	60.6	1.8	2977	7.2		
BUG	e P	Z 12:46:56.7	85.2	57.9					
TNS	e P	Z 12:46:56.9	85.2	58.7	2.9	3375	7.1		
STU	e P	Z 12:46:58.9	85.5	59.2					
BFO	e P	Z 12:47:02.5	86.2	58.5	3.1	2746	6.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	14:53:18.5	21.722N	121.829E	34.1	5.2			SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:05:55.7	85.9	60.7	2.0	41	5.2		
	e pP	Z 15:06:05.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	15:20:2.4	49.944N	153.869E	49.7	5.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:31:19.3	71.7	23.7	2.3	413	6.1		
NRDL	e P	Z	15:31:26.7	73.1	23.4	1.3	88	5.7		
CLL	e P	Z	15:31:28.6	73.4	25.1	1.3	152	5.9		
BRG	e P	Z	15:31:29.6	73.6	25.6	1.3	80	5.6		
CLZ	e P	Z	15:31:30.5	73.6	23.5	1.6	270	6.0		
IBBN	e P	Z	15:31:31.2	73.8	21.9	1.3	131	5.8		
TANN	e P	Z	15:31:34.7	74.4	24.6	1.9	169	5.8		
MOX	e P	Z	15:31:34.6	74.4	24.1	1.3	112	5.7		
BUG	e P	Z	15:31:36.3	74.7	21.5	1.3	127	5.8		
MANZ	e P	Z	15:31:37.5	74.9	24.4	1.3	70	5.5		
ROTZ	e P	Z	15:31:38.7	75.0	24.4	1.4	131	5.8		
GRA1	e P	Z	15:31:40.6	75.4	23.8	1.9	498	6.3		
	e pP	Z	15:31:54.2							
	e sP	Z	15:32:00.6							
WET	e P	Z	15:31:40.9	75.4	24.7	1.3	145	5.9		
GEC2	e P	Z	15:31:40.7	75.5	25.2	1.4	86	5.7		
TNS	e P	Z	15:31:41.4	75.6	22.2	1.2	103	5.8		
WLF	e P	Z	15:31:47.8	76.6	20.7	1.7	233	6.0		
STU	e P	Z	15:31:47.7	76.7	22.5	2.5	657	6.3		
FUR	e P	Z	15:31:48.1	76.7	23.7	2.5	1079	6.5		
BFO	e P	Z	15:31:51.2	77.4	21.9	1.3	112	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	15:41:43.0	21.648N	121.431E	33.0N	5.7			SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:54:08.3	83.7	63.1	1.9	132	5.8		
CLL	e P	Z	15:54:09.6	84.0	62.5	1.8	126	5.8		
BSEG	e P	Z	15:54:11.1	84.2	60.6	1.5	52	5.5		
TANN	e P	Z	15:54:13.6	84.7	62.0					
GEC2	e P	Z	15:54:13.7	84.8	62.8	1.1	41	5.6		
NRDL	e P	Z	15:54:15.1	85.0	60.4					
WET	e P	Z	15:54:15.7	85.1	62.2	1.6	69	5.6		
MOX	e P	Z	15:54:15.5	85.1	61.4	1.6	76	5.7		
MANZ	e P	Z	15:54:16.1	85.1	61.7					
ROTZ	e P	Z	15:54:16.3	85.2	61.7					
CLZ	e P	Z	15:54:16.3	85.2	60.5	1.5	105	5.9		
GRA1	e P	Z	15:54:19.3	85.8	61.0	1.7	137	5.8		
IBBN	e P	Z	15:54:21.8	86.3	58.5	1.0	50	5.6		
FUR	e P	Z	15:54:22.8	86.5	60.9	1.2	120	5.9		
BUG	e P	Z	15:54:25.2	87.1	58.1	1.4	65	5.6		

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TNS	e P	Z	15:54:25.4	87.1	59.0	1.8	53	5.4
STU	e P	Z	15:54:26.7	87.4	59.5			
BFO	e P	Z	15:54:29.9	88.1	58.8	1.6	31	5.4
WLF	e P	Z	15:54:33.1	88.6	57.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26	17:35:13.9	22.994N	122.625E	33.0N	5.7			SZGRF
Taiwan region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:47:48.2	85.4	59.3	2.0	121	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/26								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:58:01.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/27	01:26:18.7	19.446S	178.171W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 01:45:57.4	146.9	14.9					
CLL	e PKPbc	Z 01:45:57.4	146.9	19.6					
BRG	e PKPbc	Z 01:45:57.9	147.1	21.4					
TANN	e PKPbc	Z 01:46:00.1	147.9	19.1					
ROTZ	e PKPbc	Z 01:46:02.3	148.6	19.0					
TNS	e PKPbc	Z 01:46:02.5	148.8	12.1					
GRA1	e PKPbc	Z 01:46:02.7	148.8	17.3					
GEC2	e PKPbc	Z 01:46:03.5	149.1	22.2					
WLF	e PKPbc	Z 01:46:05.3	149.6	8.1					
BFO	e PKPbc	Z 01:46:07.2	150.6	12.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/27	02:30:41.2	22.870N	121.230E	33.4	5.7	5.1		SZGRF
Taiwan region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 02:42:59.4	82.0	62.6	1.7	155	5.8		
BRG	e P	Z 02:43:02.2	82.6	62.5	1.7	107	5.8		

FBE	e P	Z	02:43:04.1	82.9	62.1	1.4	130	6.0		
CLL	e P	Z	02:43:03.5	82.9	61.9	1.4	84	5.8		
BSEG	e P	Z	02:43:04.3	83.1	60.1	1.5	64	5.6		
	e PP	Z	02:46:17.6							
TANN	e P	Z	02:43:07.7	83.6	61.4	1.6	77	5.7		
GEC2	e P	Z	02:43:07.8	83.7	62.1	1.1	54	5.7		
WERD	e P	Z	02:43:08.0	83.7	61.3	1.6	90	5.7		
	e sP	Z	02:43:22.3							
GUNZ	e P	Z	02:43:08.2	83.7	61.3	1.5	95	5.8		
WERN	e P	Z	02:43:08.5	83.8	61.3	1.3	73	5.7		
MOX	e P	Z	02:43:09.6	84.0	60.8	1.5	90	5.8		
	e sP	Z	02:43:24.1							
WET	e P	Z	02:43:09.3	84.0	61.6	1.5	72	5.7		
MANZ	e P	Z	02:43:10.0	84.1	61.1	1.5	65	5.6		
CLZ	e P	Z	02:43:10.2	84.1	60.0	1.4	102	5.9		
ROTZ	e P	Z	02:43:10.5	84.1	61.1	1.3	84	5.8		
GTTG	e P	Z	02:43:12.2	84.5	59.6	1.6	111	5.8		
GRA1	e P	Z	02:43:13.3	84.7	60.4	1.6	107	5.8		
	e pP	Z	02:43:23.0							
	e sP	Z	02:43:27.8							
	e PP	Z	02:46:29.7							
	e L	Z	03:24:11.4			19.7	857		5.1	
IBBN	e P	Z	02:43:16.0	85.2	58.0	1.4	87	5.8		
FUR	e P	Z	02:43:16.7	85.4	60.3	1.3	133	5.9		
	e sP	Z	02:43:31.1							
BUG	e P	Z	02:43:19.0	85.9	57.6	1.4	71	5.6		
	e sP	Z	02:43:33.8							
	e PP	Z	02:46:40.9							
TNS	e P	Z	02:43:19.3	86.0	58.4	1.6	59	5.5		
STU	e P	Z	02:43:20.9	86.3	58.9	1.5	36	5.3		
BFO	e P	Z	02:43:23.8	87.0	58.2	1.4	16	4.9		
	e sP	Z	02:43:38.7							
WLF	e P	Z	02:43:27.1	87.5	56.6	1.3	40	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/27 05:02:27.1 25.059N 126.657E 33.0N 4.4
 Ryukyu Islands, Japan SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 05:14:51.8	83.9	54.7					
CLL	e P	Z 05:14:53.5	84.1	56.5					
TANN	e P	Z 05:14:58.0	84.8	56.1					
GEC2	e P	Z 05:14:59.6	85.0	56.9					
CLZ	e P	Z 05:14:59.2	85.1	54.6					
ROTZ	e P	Z 05:15:01.2	85.3	55.8					
GRA1	e P	Z 05:15:04.1	85.9	55.1	0.9	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/27	09:17:1.3	15.871S	173.072W	33.0				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 09:36:30.2	143.9	5.6					
CLL	e PKPbc	Z 09:36:30.3	144.2	10.0					
BUG	e PKPbc	Z 09:36:31.5	144.4	0.6					
BRG	e PKPbc	Z 09:36:31.0	144.5	11.7					
FBE	e PKPbc	Z 09:36:32.0	144.6	10.7					
UBBA	e PKPbc	Z 09:36:33.1	145.0	5.2					
MOX	e PKPbc	Z 09:36:33.1	145.0	7.9					
WERD	e PKPbc	Z 09:36:33.8	145.2	9.1					
TANN	e PKPbc	Z 09:36:33.9	145.2	9.3					
GUNZ	e PKPbc	Z 09:36:34.2	145.2	9.1					
WERN	e PKPbc	Z 09:36:34.4	145.3	9.2					
TNS	e PKPbc	Z 09:36:35.7	145.6	2.6					
MANZ	e PKPbc	Z 09:36:35.7	145.6	8.8					
ROTZ	e PKPbc	Z 09:36:36.4	145.8	9.1					
GRA1	e PKPbc	Z 09:36:36.8	146.0	7.4					
WLF	e PKPbc	Z 09:36:38.0	146.2	358.7					
WET	e PKPbc	Z 09:36:37.8	146.4	10.4					
GEC2	e PKPbc	Z 09:36:38.2	146.6	11.9					
BFO	e PKPbc	Z 09:36:41.0	147.5	2.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/27	18:38:26.1	25.742N	140.832E	33.0N	4.8			SZGRF

Volcano Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:51:33.3	92.3	44.0	1.1	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/27	20:15:40.4	5.700S	154.400E	370.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z 20:33:54.6	123.2	49.0					
BSEG	e PKPdf	Z 20:33:55.1	123.7	44.5					
	e SKPdf	Z 20:36:57.8							
BRG	e PKPdf	Z 20:33:55.9	124.1	49.9					
CLL	e Pdiff	Z 20:30:32.3	124.3	48.7					
	e sPdiff	Z 20:32:36.6							

	e	PKPdf	Z	20:33:55.8				1.0	128		
	e	pPKPdf	Z	20:35:23.2							
	e	PP	Z	20:35:48.8							
	e	SKPdf	Z	20:36:58.5							
	e	PKKPbc	Z	20:43:41.3				1.2	21		
	e	PS	N	20:45:52.8							
	e	PPS	N	20:47:31.2							
	e	SS	E	20:52:18.1							
	e	sSS	E	20:54:37.8							
	e	(SSS)	N	20:57:00.5							
	e	L	Z	21:31:14.2				20.0	519	5.2	
FBE	e	PKPdf	Z	20:33:56.3	124.4	49.3					
NRDL	e	PKPdf	Z	20:33:57.4	124.8	45.0					
CLZ	e	PKPdf	Z	20:33:57.8	125.1	45.6					
	e	SKPdf	Z	20:36:59.9							
TANN	e	PKPdf	Z	20:33:57.3	125.2	48.6					
WERD	e	PKPdf	Z	20:33:57.4	125.2	48.4					
GUNZ	e	PKPdf	Z	20:33:58.2	125.3	48.5					
WERN	e	PKPdf	Z	20:33:57.9	125.3	48.6					
MOX	e	PKPdf	Z	20:33:58.1	125.4	47.6					
GTTG	e	PKPdf	Z	20:33:58.8	125.5	45.3					
	e	SKPdf	Z	20:37:01.6							
GEC2	e	PKPdf	Z	20:33:58.1	125.6	50.8					
MANZ	e	PKPdf	Z	20:33:58.9	125.6	48.5					
ROTZ	e	PKPdf	Z	20:33:58.7	125.7	48.7					
WET	e	PKPdf	Z	20:33:58.5	125.8	49.7					
UBBA	e	PKPdf	Z	20:33:59.0	126.0	45.7					
GRA1	e	PKPdf	Z	20:33:59.9	126.2	47.7					
	e	PP	Z	20:35:58.9							
	e	SKPdf	Z	20:37:02.5							
	e	SS	T	20:52:41.4							
BUG	e	PKPdf	Z	20:34:01.0	126.8	42.4					
TNS	e	PKPdf	Z	20:34:01.7	127.1	44.3					
FUR	e	PKPdf	Z	20:34:02.0	127.2	48.6					
STU	e	PKPdf	Z	20:34:03.1	127.8	46.0					
	e	SKPdf	Z	20:37:05.3							
BFO	e	PKPdf	Z	20:34:04.1	128.5	45.2					
WLF	e	PKPdf	Z	20:34:04.7	128.6	42.0					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/12/28 00:15:16.0 47.947N 156.923E 33.0N 4.4
 East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:27:11.4	78.0	22.7	1.1	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/12/28												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e PKP	Z 00:38:58.9									
2006/12/28												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e PKP	Z 03:19:01.9									
2006/12/29	02:14: 4.9	44.401N	13.441E	10.0G			3.4					
Adriatic Sea												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	WTTA	e Pn	Z 02:14:55.2	3.1	155.6							3.4
	ARSA	e Pn	Z 02:14:55.0	3.2	207.7							
	MOA	e Pn	Z 02:15:00.5	3.5	189.7							
	DAVA	e Pn	Z 02:15:04.3	3.8	138.0							
	GEC2	e Pn	N 02:15:12.3	4.4	182.4							
	WET	e Pn	Z 02:15:16.2	4.8	175.1							
		e Sn	N 02:16:11.8									
	ROTZ	e Pn	Z 02:15:24.5	5.4	170.6							
		e Sn	N 02:16:25.3									
	GRA1	e Pn	Z 02:15:25.4	5.5	163.2							
	MANZ	e Pn	Z 02:15:27.7	5.7	170.3							
	WERN	e Pn	Z 02:15:32.2	5.9	172.6							
	GUNZ	e Pn	Z 02:15:33.6	6.0	172.4							
	TANN	e Pn	Z 02:15:33.9	6.1	173.3							
	WERD	e Pn	Z 02:15:34.6	6.1	172.3							
	MOX	e Pn	Z 02:15:37.2	6.4	168.2							
		e Sn	N 02:16:47.5									
2006/12/29	02:06:52.0	6.165S	150.297E	550.0								
New Britain,	Papua New Guinea,	region										
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	BSEG	e PKPdf	Z 02:24:52.0	122.3	49.2							
	BRG	e PKPdf	Z 02:24:51.7	122.5	54.5							

CLL	e	PKPdf	Z	02:24:52.0	122.7	53.3
FBE	e	PKPdf	Z	02:24:52.9	122.8	53.8
NRDL	e	PKPdf	Z	02:24:53.8	123.4	49.7
TANN	e	PKPdf	Z	02:24:53.9	123.5	53.2
GUNZ	e	PKPdf	Z	02:24:55.0	123.6	53.1
WERN	e	PKPdf	Z	02:24:54.2	123.6	53.2
CLZ	e	PKPdf	Z	02:24:54.8	123.7	50.3
GEC2	e	PKPdf	Z	02:24:54.3	123.8	55.3
MANZ	e	PKPdf	Z	02:24:55.4	124.0	53.1
GTTG	e	PKPdf	Z	02:24:55.6	124.1	50.0
WET	e	PKPdf	Z	02:24:55.3	124.1	54.3
GRA1	e	PKPdf	Z	02:24:56.1	124.6	52.3
FUR	e	PKPdf	Z	02:24:58.1	125.5	53.2
STU	e	PKPdf	Z	02:24:59.6	126.2	50.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/29	17:37:29.5	46.181N	154.264E	33.0N	4.2			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:49:30.1	78.9	25.1	0.8	2	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	02:36:51.3	52.911N	159.441E	33.0N	4.6			SZGRF
Off east coast of Kamchatka Peninsula, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:48:23.7	73.9	19.3	0.8	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	08:30:47.0	12.400N	50.810E	33.0N	6.3	6.3		SZGRF
Eastern Gulf of Aden								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 08:39:19.7	47.6	127.1	2.3	662	6.4		
	e S	T 08:46:12.7							
WET	e P	Z 08:39:23.9	48.2	126.4	2.7	770	6.4		
	e S	T 08:46:20.8							
FUR	e P	Z 08:39:27.0	48.5	123.9	2.3	1717	6.8		
BRG	e P	Z 08:39:28.0	48.7	128.8	1.8	424	6.2		
	e S	T 08:46:29.9							
ROTZ	e P	Z 08:39:29.7	48.9	126.1	1.9	393	6.1		
FBE	e P	Z 08:39:30.6	49.0	128.1	1.7	519	6.3		

	e S	T	08:46:34.2								
MANZ	e P	Z	08:39:31.2	49.1	126.1						
WERN	e P	Z	08:39:31.9	49.2	126.6	2.1	930	6.5			
TANN	e P	Z	08:39:32.0	49.2	126.8	2.1	636	6.3			
	e S	T	08:46:36.7								
GUNZ	e P	Z	08:39:32.4	49.2	126.6	1.8	673	6.4			
WERD	e P	Z	08:39:32.6	49.3	126.7	1.8	455	6.2			
GRA1	e P	Z	08:39:33.1	49.4	125.0	2.6	1357	6.5			
	e		08:39:38.2								
	e		08:39:52.7								
	e PP	Z	08:41:33.8								
	e S	T	08:46:39.8								
	e L	Z	08:55:56.5			49.5	71030	6.3			
CLL	e P	Z	08:39:34.0	49.5	128.0	2.1	1019	6.5			
	e PP	Z	08:41:35.1								
	e PPP	Z	08:42:14.2								
	e S	E	08:46:42.9								
	e ScS	N	08:49:27.4								
	e SS	N	08:50:36.8								
	e LQ	E	08:53:02.8								
	e LR	Z	08:54:46.6								
	e L	Z	09:01:43.9			22.0	35340	6.3			
MOX	e P	Z	08:39:36.3	49.8	126.0	2.1	763	6.3			
	e S	T	08:46:45.7								
RUE	e P	Z	08:39:36.2	49.8	129.7	1.8	724	6.3			
STU	e P	Z	08:39:38.0	50.0	122.1	2.3	406	5.9			
BFO	e P	Z	08:39:40.8	50.3	120.9	2.9	1994	6.5			
	e S	T	08:46:50.7								
UBBA	e P	Z	08:39:43.2	50.7	124.4	2.8	931	6.2			
	e S	T	08:46:56.5								
CLZ	e P	Z	08:39:46.5	51.1	125.5	1.8	504	6.2			
	e S	T	08:47:02.3								
GTTG	e P	Z	08:39:46.7	51.1	124.9						
	e S	T	08:47:02.6								
TNS	e P	Z	08:39:47.0	51.2	122.4	2.0	373	6.0			
RGN	e P	Z	08:39:48.5	51.4	130.4	1.8	711	6.3			
NRDL	e P	Z	08:39:50.7	51.6	125.6	1.8	489	6.1			
WLF	e P	Z	08:39:55.3	52.2	119.6	3.7	2793	6.6			
BSEG	e P	Z	08:39:55.3	52.4	126.8						
BUG	e P	Z	08:39:57.2	52.5	122.0	2.1	525	6.1			
	e S	T	08:47:21.9								

Date 2006/12/30
 Origin Time 11:08:57.2
 Socotra region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	11:17:41.7	49.1	122.7	1.4	10	4.6
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	11:16:41.1	46.964N	155.105E	19.0	5.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:28:39.0	78.4	24.2	1.1	40	5.4		
	e pP	Z 11:28:44.4							
	e sP	Z 11:28:47.2			1.1	40			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	11:22:53.3	47.018N	155.140E	33.0G	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:34:50.9	78.4	24.2	1.2	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	14:33:10.6	5.551N	82.862W	20.0	4.6	5.1		GSRC

South of Panama

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:46:06.3	88.4	276.7	1.1	3	4.6		
	e L	Z 15:19:54.0			21.1	707		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	16:05:47.9	16.236S	176.249W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 16:25:17.3	144.0	10.9					
CLL	e PKPbc	Z 16:25:17.6	144.2	15.3					
BRG	e PKPbc	Z 16:25:18.4	144.4	17.0					
FBE	e PKPbc	Z 16:25:19.1	144.5	16.0					
TANN	e PKPbc	Z 16:25:21.0	145.1	14.7					
MANZ	e PKPbc	Z 16:25:22.3	145.6	14.3					
ROTZ	e PKPbc	Z 16:25:23.2	145.8	14.5					
GRA1	e PKPbc	Z 16:25:23.7	146.0	12.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	17:42:29.0	13.832N	90.497W	33.0N	4.8			SZGRF

Near coast of Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:55:10.7	86.9	287.8	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	17:49:36.8	33.999N	138.833E	33.0N	5.0			SZGRF

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:02:05.8	84.3	41.3	1.4	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	19:48:39.7	46.150N	153.201E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:00:38.8	78.6	25.8	0.9	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	22:10:41.8	45.748N	153.339E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:22:43.1	79.1	25.9	1.7	19	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	22:34:38.2	43.235N	147.531E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:46:42.1	79.5	30.8	1.0	27	5.1		
	e	22:46:46.1							
	e	22:46:58.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/12/30 23:30:10.3 36.137N 141.304E 33.0N 4.8 SZGRF
Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:42:35.1	83.5	38.5	1.0	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/30	23:50:42.8	34.210N	4.200E	33.0N	4.5			SZGRF

Northern Algeria

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 23:54:15.5	14.9	203.3	1.5	101			
STU	e P	Z 23:54:17.3	15.0	196.1	1.0	24			
WLF	e P	Z 23:54:23.1	15.5	186.0	1.0	37			
GEC2	e P	Z 23:54:31.7	16.2	209.2	1.1	48			
WET	e P	Z 23:54:31.5	16.3	206.5	1.0	47			
GRFO	e P	Z 23:54:32.7	16.3	201.1	1.0	88			
GRA1	e P	Z 23:54:32.7	16.3	201.1	1.0	98			
ROTZ	e P	Z 23:54:36.3	16.6	203.7	0.9	22			
	e	23:54:40.8							
MANZ	e P	Z 23:54:38.0	16.8	203.2	0.9	51			
WERN	e P	Z 23:54:42.1	17.2	203.5	1.1	28			
GUNZ	e P	Z 23:54:42.8	17.2	203.3	1.1	36			
WERD	e P	Z 23:54:43.7	17.3	203.1	1.7	29			
TANN	e P	Z 23:54:43.8	17.3	203.6	1.4	42			
MOX	e P	Z 23:54:44.1	17.3	201.0	0.8	22			
BUG	e P	Z 23:54:44.0	17.4	188.5	1.5	76	4.6		
GTTG	e P	Z 23:54:47.9	17.8	195.7	1.0	48			
FBE	e P	Z 23:54:52.0	18.0	205.2	1.2	35	4.4		
BRG	e P	Z 23:54:52.3	18.1	206.8	1.1	21	4.2		
CLZ	e P	Z 23:54:54.0	18.2	196.6	1.0	33	4.4		
CLL	e P	Z 23:54:54.7	18.2	203.8	1.0	23	4.3		
RUE	e P	Z 23:55:09.4	19.5	204.3	2.7	338			
BSEG	e P	Z 23:55:17.2	20.2	194.8	1.6	115	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/31	13:39:21.8	47.360N	19.632E	10.0G			3.9	SZGRF

Hungary

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z 13:40:06.4	2.8	86.2					3.7
MOA	e Pn	Z 13:40:19.1	3.7	95.7					4.0
GEC2	e Pn	Z 13:40:26.2	4.2	108.3					4.0
	e Sn	N 13:41:13.8							
KBA	e Pn	Z 13:40:27.5	4.3	83.9					3.8

WET	e Pn	Z	13:40:34.3	4.8	109.1
BRG	e Pn	Z	13:40:37.7	5.1	131.2
FBE	e Pn	Z	13:40:44.1	5.4	128.5
	e Sn	N	13:41:43.7		
ROTZ	e Pn	Z	13:40:43.2	5.5	113.3
WERN	e Pn	Z	13:40:44.5	5.6	118.7
TANN	e Pn	Z	13:40:44.5	5.6	120.2
MANZ	e Pn	Z	13:40:44.5	5.6	115.0
	e Sn	E	13:41:48.9		
GUNZ	e Pn	Z	13:40:45.4	5.7	119.2
WERD	e Pn	Z	13:40:45.8	5.7	119.9
	e Sn	N	13:41:49.3		
CLL	e Pn	Z	13:40:47.9	5.8	129.9
GRA1	e Pn	Z	13:40:51.4	6.0	109.5
MOX	e Pn	Z	13:40:52.8	6.2	118.9

4.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/31	13:29:52.3	20.685S	173.622W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 13:49:30.7	146.6	6.7					
CLL	e PKPbc	Z 13:49:36.3	148.9	12.1					
BRG	e PKPbc	Z 13:49:36.8	149.2	13.9					
MOX	e PKPbc	Z 13:49:38.5	149.8	9.8					
TANN	e PKPbc	Z 13:49:39.0	149.9	11.4					
MANZ	e PKPbc	Z 13:49:40.2	150.3	10.9					
TNS	e PKPbc	Z 13:49:40.2	150.4	3.9					
ROTZ	e PKPbc	Z 13:49:40.5	150.6	11.1					
GRA1	e PKPbc	Z 13:49:41.1	150.7	9.3					
GEC2	e PKPbc	Z 13:49:42.2	151.2	14.3					
BFO	e PKPbc	Z 13:49:44.6	152.3	3.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/31	14:55: 5.1	37.540S	70.855W	31.0G		5.2		NEIC

Southern Argentina

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z 16:01:20.2	113.2	238.7	19.9	595		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/31								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e P	Z 19:02:15.4							
WET	e P	Z 19:02:00.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/12/31	22:48:59.2	28.432S	112.102W	35.0G		5.1		NEIC

Easter Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e SS	R 23:28:12.3	129.9	273.0					
BFO	e SS	R 23:28:20.4	130.7	271.2					
TNS	e SS	R 23:28:20.8	130.7	272.9					
GRFO	e SS	R 23:28:43.6	132.5	274.7					
GRA1	e SS	R 23:28:42.6	132.5	274.7					
	e L	Z 23:59:02.0			20.7	426		5.1	
MOX	e SS	R 23:28:45.5	132.7	275.9					
MANZ	e SS	R 23:28:48.3	133.0	275.7					
RGN	e SS	R 23:28:45.5	133.1	281.0					
ROTZ	e SS	R 23:28:52.1	133.1	275.6					
TANN	e SS	R 23:28:51.1	133.2	276.4					
CLL	e SS	R 23:28:57.8	133.5	277.7					
WET	e SS	R 23:29:01.6	133.6	275.5					
BRG	e SS	R 23:29:12.4	134.1	278.1					
GEC2	e SS	R 23:29:07.9	134.2	275.9					

Format description

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(K. Klinge Email:klinge@szgrf.bgr.de and A. Schick)

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Additionally, some selected events are analysed more comprehensively at CLL-station and included in the bulletin (ISOP-analyses).

Each event is reported by several EPICENTER LINES with possible COMMENT LINES, a REGION LINE and a block of PHASE LINES.

EPICENTER LINES:

The epicenter locations of several authorities can be reported. The epicenter location with the highest priority (i.e. the most reliable one) is written in the undermost EPICENTER LINE. The REGION LINE and all origin related parameter in the PHASE LINES (i.e. Def, Dist, EvAz) are determined regarding this epicenter location with the

highest priority.

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)

COMMENT LINE:

Each EPICENTER LINE can be followed by a COMMENT LINE about interesting topics submitted by the preceding authority.

REGION LINE:

The region name of the epicenter location with the highest priority (undermost EPICENTER LINE).

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 with the highest priority to the station in kilometer
BAZ	Backazimuth from the epicenter location with the highest priority 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