

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

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(produced by SZGRF/BGR - ERLANGEN)

JULY 2007

UPDATED 19.AUGUST.2008

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
2007/07/01	04:12: 8.9	44.110N	145.270E	131.2	6.0			SZGRF
Hokkaido, Japan, region								
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb MS ML
BSEG	e P	Z	04:23:35.8	74.7	31.8	0.8	280	6.4
NRDL	e P	Z	04:23:43.0	76.0	31.5	0.8	84	5.9
CLL	e P	Z	04:23:42.9	76.0	33.2	0.8	304	6.5
	e pP	Z	04:24:15.8					
BRG	e P	Z	04:23:43.1	76.1	33.7	0.7	68	5.9
CLZ	e P	Z	04:23:45.9	76.5	31.5	0.8	145	6.2
	e pP	Z	04:24:19.1					
IBBN	e P	Z	04:23:47.9	76.9	29.9	0.7	204	6.3
MOX	e P	Z	04:23:48.7	77.1	32.2	0.8	63	5.8
	e pP	Z	04:24:22.3					
MANZ	e P	Z	04:23:51.0	77.5	32.4	0.8	45	5.7
UBBA	e P	Z	04:23:51.1	77.5	31.2	0.6	49	5.8
ROTZ	e P	Z	04:23:52.3	77.6	32.5	1.1	80	5.8
BUG	e P	Z	04:23:53.0	77.8	29.4	0.7	161	6.3
	e pP	Z	04:24:26.3					
GEC2	e P	Z	04:23:53.1	77.8	33.3	0.8	44	5.7
WET	e P	Z	04:23:53.9	77.9	32.8	0.9	118	6.0
	e pP	Z	04:24:27.2					
GRA1	e P	Z	04:23:54.5	78.0	31.8	0.8	280	6.5
	e pP	Z	04:24:28.1					
	e S	E	04:33:41.8					
FUR	e P	Z	04:24:01.4	79.3	31.7	1.0	170	5.9
STU	e P	Z	04:24:02.2	79.5	30.4	0.8	167	6.0
	e pP	Z	04:24:31.9					
WLF	e P	Z	04:24:03.4	79.7	28.5	1.1	85	5.6
BFO	e P	Z	04:24:05.4	80.1	29.8	0.8	64	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/01	08:39: 7.1	21.450S	177.780W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	08:58:45.9	146.9	13.9					
NRDL	e PKPbc	Z	08:58:49.0	148.4	14.1					
IBBN	e PKPbc	Z	08:58:51.4	148.8	10.0					
CLZ	e PKPbc	Z	08:58:51.3	149.0	14.8					
CLL	e PKPbc	Z	08:58:51.5	149.0	19.7					
BRG	e PKPbc	Z	08:58:52.2	149.2	21.7					
MOX	e PKPbc	Z	08:58:53.7	149.9	17.6					
UBBA	e PKPbc	Z	08:58:54.6	150.0	14.6					
MANZ	e PKPbc	Z	08:58:55.3	150.4	18.9					
ROTZ	e PKPbc	Z	08:58:55.9	150.6	19.2					
GRA1	e PKPbc	Z	08:58:56.3	150.9	17.4					
WET	e PKPbc	Z	08:58:56.4	151.0	20.8					
GEC2	e PKPbc	Z	08:58:56.8	151.1	22.6					
WLF	e PKPbc	Z	08:58:58.2	151.6	7.7					
STU	e PKPbc	Z	08:58:59.4	152.1	14.0					
FUR	e PKPbc	Z	08:58:59.9	152.3	18.4					
BFO	e PKPbc	Z	08:59:00.4	152.7	12.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/01	10:21:59.5	22.090S	178.140W	611.0				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:40:36.0	147.5	14.7					
NRDL	e PKPbc	Z	10:40:38.9	148.9	14.9					
IBBN	e PKPbc	Z	10:40:40.6	149.4	10.8					
	e pPKPbc	Z	10:42:59.7							
CLL	e PKPbc	Z	10:40:40.6	149.5	20.7					
	e pPKPbc	Z	10:42:58.3							
CLZ	e PKPbc	Z	10:40:41.1	149.5	15.7					
BRG	e PKPbc	Z	10:40:41.2	149.7	22.6					
	e PKPab	Z	10:40:49.3							
	e pPKPbc	Z	10:43:00.2							
BUG	e PKPbc	Z	10:40:42.6	150.4	10.2					
MOX	e PKPbc	Z	10:40:42.9	150.4	18.6					
	e PKPab	Z	10:40:52.4							
UBBA	e PKPbc	Z	10:40:43.6	150.6	15.5					
	e PKPab	Z	10:40:52.6							
MANZ	e PKPbc	Z	10:40:44.3	151.0	19.9					

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ROTZ	e PKPab	Z	10:40:54.5		
	e PKPbc	Z	10:40:44.6	151.1	20.2
	e PKPab	Z	10:40:55.5		
GRA1	e pPKPbc	Z	10:43:02.3		
	e PKPbc	Z	10:40:45.4	151.4	18.4
	e PKPab	Z	10:40:57.1		
WET	e PKPbc	Z	10:40:45.7	151.6	21.8
	e PKPab	Z	10:40:57.5		
GEC2	e PKPbc	Z	10:40:45.3	151.6	23.6
	e PKPab	Z	10:40:57.1		
WLF	e pPKPbc	Z	10:43:04.3		
	e PKPab	Z	10:41:00.7	152.2	8.6
	e pPKPbc	Z	10:43:06.5		
STU	e PKPbc	Z	10:40:49.1	152.7	14.9
	e PKPab	Z	10:41:02.1		
	e pPKPbc	Z	10:43:08.8		
FUR	e PKPab	Z	10:41:03.0	152.9	19.4
BFO	e PKPab	Z	10:41:03.9	153.3	13.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/01	14:34:11.0	6.042S	130.568E	127.9G				NEIC

Banda Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SP	Z 15:02:11.3	110.5	70.7					
RUE	e SP	Z 15:02:17.7	110.9	71.8					
BRG	e PKPdf	Z 14:52:29.9	111.3	72.6					
	e PP	Z 14:53:14.9							
	e SP	Z 15:02:24.2							
CLL	e PKPdf	Z 14:52:30.4	111.7	71.6					
	e PP	Z 14:53:18.1							
	e SP	Z 15:02:27.8							
GEC2	e PKPdf	Z 14:52:31.2	112.0	73.1					
	e PP	Z 14:53:20.7							
	e SP	Z 15:02:33.0							
BSEG	e PKPdf	Z 14:52:32.0	112.3	68.2					
	e PP	Z 14:53:19.4							
	e SP	Z 15:02:33.1							
WERD	e PKPdf	Z 14:52:32.0	112.4	71.3					
WERN	e PKPdf	Z 14:52:32.0	112.4	71.4					
	e pPKPdf	Z 14:53:13.3							
GUNZ	e PKPdf	Z 14:52:31.9	112.4	71.4					
	e pPKPdf	Z 14:53:12.3							
WET	e PKPdf	Z 14:52:32.2	112.5	72.3					
	e PP	Z 14:53:23.4							
	e SP	Z 15:02:38.3							
MANZ	e PKPdf	Z 14:52:32.5	112.7	71.3					

	e PP	Z	14:53:21.0		
	e SP	Z	15:02:40.3		
ROTZ	e PP	Z	14:53:25.2	112.7	71.5
	e SP	Z	15:02:40.9		
MOX	e PP	Z	14:53:21.6	112.7	70.7
	e SP	Z	15:02:39.8		
RJOB	e PKPdf	Z	14:52:32.4	112.9	72.8
	e PP	Z	14:53:22.9		
	e SP	Z	15:02:42.3		
NRDL	e PKPdf	Z	14:52:33.3	113.0	68.6
	e PP	Z	14:53:23.3		
	e SP	Z	15:02:40.7		
CLZ	e PKPdf	Z	14:52:33.5	113.1	69.1
	e PP	Z	14:53:23.9		
	e SP	Z	15:02:42.9		
GRA1	e PKPdf	Z	14:52:33.5	113.3	70.7
	e PP	Z	14:53:25.5		
	e SP	Z	15:02:46.6		
HLG	e PP	Z	14:53:27.3	113.6	65.9
	e SP	Z	15:02:46.0		
UBBA	e PKPdf	Z	14:52:34.1	113.6	69.2
	e SP	Z	15:02:48.6		
FUR	e PKPdf	Z	14:52:34.5	113.8	71.4
	e PP	Z	14:53:28.8		
	e SP	Z	15:02:51.2		
IBBN	e PKPdf	Z	14:52:35.9	114.4	66.6
	e SP	Z	15:02:55.5		
STU	e PKPdf	Z	14:52:36.5	114.9	69.3
	e PP	Z	14:53:40.5		
	e SP	Z	15:03:02.5		
BUG	e PKPdf	Z	14:52:36.9	115.0	66.5
	e PP	Z	14:53:37.6		
	e SP	Z	15:03:03.2		
BFO	e PKPdf	Z	14:52:37.2	115.6	68.8
	e PP	Z	14:53:41.4		
	e SP	Z	15:03:10.2		
WLF	e PP	Z	14:53:51.1	116.4	66.3
	e SP	Z	15:03:18.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/01	19:02:43.9	34.410N	14.600W	33.0N	4.9	3.5		SZGRF
Madeira Islands, Portugal, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:07:30.2	21.5	232.7	1.3	34	4.6		
BFO	e P	Z	19:07:37.5	22.0	239.2	1.5	37	4.6		
STU	e P	Z	19:07:44.0	22.7	239.6	1.1	48	4.9		

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BUG	e P	Z	19:07:49.2	23.2	231.3	1.0	22	4.6		
FUR	e P	Z	19:07:53.2	23.6	243.9	1.2	52	4.9		
IBBN	e P	Z	19:07:54.7	24.0	230.6	1.0	33	4.8		
GRA1	e P	Z	19:08:00.0	24.3	240.8	1.0	88	5.2		
	e L	Z	19:15:45.9			21.5	157		3.5	
RJOB	e P	Z	19:07:59.2	24.4	246.9	0.8	32	4.9		
ROTZ	e P	Z	19:08:04.6	24.9	242.1	1.3	24	4.8		
MANZ	e P	Z	19:08:04.6	24.9	241.5	0.9	23	4.9		
CLZ	e P	Z	19:08:06.5	25.0	235.6	1.2	42	5.1		
MOX	e P	Z	19:08:05.7	25.0	239.6	1.1	42	5.1		
WET	e P	Z	19:08:05.5	25.0	244.2	1.0	48	5.2		
NRDL	e P	Z	19:08:08.8	25.2	234.0	1.9	70	5.1		
WERN	e P	Z	19:08:09.0	25.2	241.3	1.1	20	4.8		
GUNZ	e P	Z	19:08:08.2	25.3	241.1	0.8	12	4.7		
WERD	e P	Z	19:08:08.4	25.3	240.9	1.0	12	4.6		
GEC2	e P	Z	19:08:09.0	25.4	245.9	1.2	91	5.4		
BSEG	e P	Z	19:08:16.9	26.2	231.9	1.8	86	5.1		
BRG	e P	Z	19:08:19.4	26.4	242.5	1.5	21	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/01 21:32:52.8 48.440N 179.090W 33.0G 4.7
 South of Aleutian Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 21:44:47.3	77.3	6.4	0.9	16	5.2		
NRDL	e P	Z 21:44:55.5	78.8	6.2	1.9	34	5.1		
IBBN	e P	Z 21:44:57.5	79.1	4.6	1.2	31	5.2		
CLZ	e P	Z 21:44:59.2	79.4	6.4	1.1	16	4.9		
CLL	e P	Z 21:45:00.1	79.7	8.1	0.8	4	4.5		
BRG	e P	Z 21:45:02.2	80.1	8.7	1.3	7	4.4		
FBE	e P	Z 21:45:03.1	80.1	8.3	1.2	10	4.6		
MOX	e P	Z 21:45:04.8	80.5	7.2	1.1	6	4.5		
WERD	e P	Z 21:45:05.9	80.6	7.6	1.2	7	4.5		
GUNZ	e P	Z 21:45:06.0	80.7	7.6	0.9	4	4.4		
WERN	e P	Z 21:45:06.8	80.8	7.7	0.9	7	4.7		
GRA1	e P	Z 21:45:10.7	81.5	6.9	1.0	13	5.0		
WET	e P	Z 21:45:13.1	81.9	8.0	1.4	4	4.4		
GEC2	e P	Z 21:45:14.0	82.1	8.5	1.3	6	4.5		
STU	e P	Z 21:45:16.3	82.5	5.5	0.7	7	5.0		
BFO	e P	Z 21:45:17.5	83.0	5.0	1.6	12	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/01 21:34:34.2 52.944N 176.920E 33.0N 4.8
 Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	21:45:58.6	72.5	8.4	0.8	20	5.3		
NRDL	e P	Z	21:46:06.7	74.0	8.2	1.1	13	4.9		
IBBN	e P	Z	21:46:08.8	74.4	6.8	0.9	24	5.2		
CLZ	e P	Z	21:46:10.4	74.6	8.4	0.9	14	5.0		
CLL	e P	Z	21:46:11.4	74.9	10.0	0.8	6	4.7		
BRG	e P	Z	21:46:13.5	75.2	10.5	1.1	8	4.7		
UBBA	e P	Z	21:46:15.8	75.7	8.1	1.0	4	4.5		
MOX	e P	Z	21:46:16.2	75.7	9.1	1.0	7	4.7		
WERD	e P	Z	21:46:17.2	75.8	9.5	1.3	7	4.6		
GUNZ	e P	Z	21:46:17.6	75.9	9.5	0.9	4	4.6		
WERN	e P	Z	21:46:18.1	75.9	9.5	0.8	9	4.9		
MANZ	e P	Z	21:46:19.6	76.3	9.4	0.8	4	4.5		
ROTZ	e P	Z	21:46:21.1	76.5	9.4	1.2	10	4.8		
GRA1	e P	Z	21:46:22.1	76.7	8.8	0.9	13	5.0		
WET	e P	Z	21:46:24.1	77.0	9.8	1.1	4	4.5		
GEC2	e P	Z	21:46:24.8	77.2	10.3	0.9	5	4.7		
FUR	e P	Z	21:46:30.0	78.2	8.8	1.3	24	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	01:14:39.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/02	01:31: 5.5	24.459N	128.210E	33.0N	4.8			SZGRF
Southeast of Ryukyu Islands, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:43:38.3	85.1	56.4	0.9	5	4.7		
BSEG	e P	Z	01:43:38.7	85.2	53.8	1.1	14	5.1		
FBE	e P	Z	01:43:40.5	85.4	56.0	1.1	7	4.7		
WERD	e P	Z	01:43:43.4	86.2	55.1	3.3	81	5.3		
WERN	e P	Z	01:43:43.9	86.3	55.2	0.9	8	4.8		
GEC2	e P	Z	01:43:44.3	86.4	56.1	1.1	4	4.4		
CLZ	e P	Z	01:43:44.8	86.4	53.8	1.0	9	4.9		
MANZ	e P	Z	01:43:45.4	86.6	55.0	1.1	6	4.6		
ROTZ	e P	Z	01:43:46.0	86.7	55.0	0.9	6	4.7		
GRA1	e P	Z	01:43:48.9	87.2	54.3	0.8	6	4.8		
	e pP	Z	01:44:03.4							
FUR	e P	Z	01:43:52.9	88.1	54.3	0.9	9	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/03	08:26:10.1	1.170N	29.070W	33.0N	6.0	5.9		SZGRF

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	08:35:52.1	57.0	223.4	2.9	614	6.1		
	e PPP	Z	08:39:28.3							
BFO	e P	Z	08:35:52.9	57.1	226.3	1.5	250	6.0		
	e S	T	08:43:52.8							
STU	e P	Z	08:35:57.6	57.8	227.0	1.5	198	5.9		
	e S	T	08:44:03.1							
FUR	e P	Z	08:36:02.2	58.4	229.4	1.1	265	6.2		
	e PP	Z	08:38:10.5							
BUG	e P	Z	08:36:04.6	58.8	223.8	1.8	230	5.9		
GRA1	e P	Z	08:36:09.0	59.4	228.7	1.6	258	6.0		
	e L	Z	08:58:38.6			20.8	10439		5.9	
UBBA	e P	Z	08:36:10.3	59.6	226.9	2.5	521	6.1		
	e S	T	08:44:27.5							
IBBN	e P	Z	08:36:10.2	59.6	224.0	1.2	183	6.0		
	e S	T	08:44:27.2							
WET	e P	Z	08:36:12.0	59.9	230.6	1.3	145	5.8		
ROTZ	e P	Z	08:36:12.5	59.9	229.6	1.4	154	5.9		
MANZ	e P	Z	08:36:13.3	60.0	229.4	2.3	454	6.1		
GEC2	e P	Z	08:36:13.7	60.1	231.5	1.6	232	6.0		
	e PP	Z	08:38:25.6							
	e PPP	Z	08:39:50.6							
	e S	T	08:44:29.2							
MOX	e P	Z	08:36:14.8	60.2	228.7	2.2	503	6.2		
	e S	T	08:44:30.2							
CLZ	e P	Z	08:36:16.0	60.5	226.9	1.9	201	5.8		
	e S	T	08:44:38.8							
NRDL	e P	Z	08:36:18.7	60.8	226.4	1.6	236	5.8		
	e PP	Z	08:38:33.1							
	e S	T	08:44:40.5							
CLL	e P	Z	08:36:22.2	61.3	229.8	2.2	327	5.8		
	e PP	Z	08:38:37.8							
	e S	T	08:44:46.1							
BRG	e P	Z	08:36:23.3	61.5	230.9	1.9	189	5.6		
BSEG	e P	Z	08:36:25.2	61.9	226.0	1.1	194	6.2		
	e PP	Z	08:38:42.0							
	e PPP	Z	08:40:15.7							
	e S	T	08:44:48.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/03	13:07:28.4	53.520N	158.770E	135.4	5.0			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	13:18:36.0	69.4	19.4	0.8	11	5.2		
NRDL	e P	Z	13:18:43.9	70.8	19.1	0.9	5	4.7		
CLL	e P	Z	13:18:47.2	71.3	20.7	0.9	16	5.3		
CLZ	e P	Z	13:18:47.9	71.4	19.2	0.8	15	5.3		
	e pP	Z	13:19:21.1							
BRG	e P	Z	13:18:48.3	71.5	21.2	1.0	7	4.8		
FBE	e P	Z	13:18:49.7	71.6	20.8					
MOX	e P	Z	13:18:51.9	72.2	19.8	1.2	9	4.9		
WERD	e P	Z	13:18:52.6	72.3	20.2	0.8	5	4.8		
GUNZ	e P	Z	13:18:53.1	72.4	20.2	1.0	6	4.8		
WERN	e P	Z	13:18:53.4	72.4	20.2	0.7	9	5.1		
MANZ	e P	Z	13:18:56.1	72.8	20.0	1.2	8	4.8		
ROTZ	e P	Z	13:18:57.1	72.9	20.0	0.9	5	4.7		
GRA1	e P	Z	13:18:58.8	73.2	19.5	0.8	12	5.2		
WET	e P	Z	13:19:00.3	73.4	20.4	0.9	7	4.9		
GEC2	e P	Z	13:18:59.6	73.5	20.8	2.2	36	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/03	19:46:53.9	19.781S	170.931E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	20:06:22.8	144.0	38.8					
CLL	e PKPbc	Z	20:06:22.9	144.0	37.0					
FBE	e PKPbc	Z	20:06:24.3	144.2	37.8					
NEUB	e PKPbc	Z	20:06:25.0	144.6	35.3					
TANN	e PKPbc	Z	20:06:26.3	144.9	37.0					
WERD	e PKPbc	Z	20:06:26.3	145.0	36.7					
GUNZ	e PKPbc	Z	20:06:26.6	145.0	36.8					
WERN	e PKPbc	Z	20:06:26.5	145.1	36.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/04	00:10:10.3	51.125N	178.083W	14.6	4.5			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:22:13.2	78.9	5.9	1.2	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/04	00:34: 0.9	6.500S	147.100E	60.0				GSRC

Eastern New Guinea, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 00:52:53.9	123.2	55.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/04	01:23:29.2	55.283N	110.149E	33.0N	5.3	5.6		SZGRF

Lake Baykal, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 01:32:39.9	52.6	44.9	1.0	44	5.3		
BRG	e P	Z 01:32:43.9	53.2	45.0	0.8	28	5.3		
CLL	e P	Z 01:32:44.6	53.3	44.8	0.8	26	5.3		
	e PP	Z 01:34:46.7							
	e PPP	Z 01:35:52.6							
NRDL	e P	Z 01:32:47.9	53.7	44.1	1.1	30	5.2		
	e PPP	Z 01:35:59.2							
CLZ	e P	Z 01:32:50.7	54.1	43.9	1.2	60	5.5		
TANN	e P	Z 01:32:51.5	54.2	44.1	1.5	35	5.2		
MOX	e P	Z 01:32:52.9	54.4	43.8	0.7	39	5.5		
MANZ	e P	Z 01:32:55.0	54.7	43.7	2.5	177	5.7		
GEC2	e P	Z 01:32:55.7	54.8	43.9	1.3	22	5.0		
	e PP	Z 01:35:01.4							
ROTZ	e P	Z 01:32:56.1	54.8	43.7	1.7	47	5.3		
IBBN	e P	Z 01:32:55.5	54.9	42.9	0.9	42	5.5		
WET	e P	Z 01:32:57.1	54.9	43.6	0.9	23	5.2		
UBBA	e P	Z 01:32:56.7	55.0	43.2	1.5	27	5.1		
GRA1	e P	Z 01:32:59.6	55.3	43.2	1.5	56	5.4		
	e PP	Z 01:35:06.2							
	e S	N 01:40:52.9							
	e SS	E 01:44:32.9							
	e L	Z 01:59:00.5			19.0	4523		5.6	
BUG	e P	Z 01:33:01.8	55.7	42.2	0.9	53	5.6		
FUR	e P	Z 01:33:07.4	56.4	42.5	1.0	34	5.3		
	e PPP	Z 01:36:29.4							
STU	e P	Z 01:33:10.2	56.8	41.9	0.8	28	5.3		
WLF	e P	Z 01:33:15.7	57.5	40.9	0.9	18	5.1		
BFO	e P	Z 01:33:15.1	57.6	41.3	0.9	22	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/04	02:18: 8.3	55.570N	110.420E	33.0N	4.8			SZGRF

Lake Baykal, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 02:27:21.6	52.5	44.5	1.3	15	4.8		
BRG	e P	Z 02:27:25.7	53.2	44.6	2.5	71	5.2		

CLL	e P	Z	02:27:26.1	53.3	44.4	0.6	7	4.9
NRDL	e P	Z	02:27:30.1	53.7	43.7	1.1	7	4.6
CLZ	e P	Z	02:27:31.9	54.0	43.5	0.9	9	4.8
TANN	e P	Z	02:27:33.0	54.1	43.7	1.6	16	4.8
MOX	e P	Z	02:27:34.7	54.3	43.4	0.8	14	5.0
MANZ	e P	Z	02:27:36.7	54.6	43.3	1.6	11	4.6
ROTZ	e P	Z	02:27:37.7	54.7	43.3	1.4	12	4.7
GEC2	e P	Z	02:27:37.3	54.7	43.5	1.4	9	4.6
IBBN	e P	Z	02:27:37.4	54.8	42.5	0.6	8	4.9
WET	e P	Z	02:27:38.9	54.9	43.3	1.1	8	4.7
UBBA	e P	Z	02:27:38.4	54.9	42.8	0.9	4	4.5
GRA1	e P	Z	02:27:41.2	55.2	42.8	0.7	6	4.8
BUG	e P	Z	02:27:44.2	55.6	41.8	1.0	16	5.0
FUR	e P	Z	02:27:49.5	56.3	42.1	0.9	20	5.1
BFO	e P	Z	02:27:56.7	57.5	41.0	0.8	5	4.6

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/04 06:11:17.0 32.483N 55.127E 33.0N 4.6 4.1 ML SZGRF
 Northern and central Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 06:18:04.5	34.9	102.4	1.0	9	4.7		
BRG	e P	Z 06:18:08.0	35.2	105.5	0.6	3	4.4		
WET	e P	Z 06:18:10.1	35.4	102.0	1.0	8	4.5		
CLL	e P	Z 06:18:14.2	35.9	105.1	1.4	18	4.7		
ROTZ	e P	Z 06:18:14.8	36.0	102.2	1.0	6	4.4		
MOX	e P	Z 06:18:19.3	36.6	102.8	1.4	7	4.2		
GRA1	e P	Z 06:18:20.2	36.6	101.2	1.0	12	4.6		
	e L	Z 06:37:53.0			19.3	308		4.1	
CLZ	e P	Z 06:18:29.0	37.6	103.2	1.5	23	4.7		
NRDL	e P	Z 06:18:31.4	37.9	103.8	1.9	37	4.8		
BSEG	e P	Z 06:18:33.3	38.1	105.7	0.8	10	4.6		
BFO	e P	Z 06:18:34.1	38.3	96.9	2.2	41	4.8		
BUG	e P	Z 06:18:44.2	39.4	99.8	1.0	13	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/04 09:51:38.7 32.500N 56.100E 33.0 4.3 ML GSRC
 Northern and central Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:58:48.4	37.2	100.3	1.2	7	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source

2007/07/04 17:49:20.8 59.400N 140.160W 33.0N 5.0 SZGRF
Southeastern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 18:00:13.4	67.2	345.6	1.1	8	4.9		
MOX	e P	Z 18:00:16.6	67.6	344.9	1.1	11	5.0		
FBE	e P	Z 18:00:17.9	67.6	345.8	1.0	9	5.0		
BRG	e P	Z 18:00:17.3	67.7	346.1	1.1	9	4.9		
TANN	e P	Z 18:00:19.1	68.0	345.4	1.1	6	4.8		
WERN	e P	Z 18:00:19.7	68.1	345.3	1.7	15	5.0		
GRA1	e P	Z 18:00:22.2	68.4	344.8	0.7	9	5.1		
WET	e P	Z 18:00:26.9	69.3	345.7	1.1	10	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/04 21:07:33.7 20.820S 179.170W 563.5 SZGRF
Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:26:10.6	146.1	16.0					
NRDL	e PKPbc	Z 21:26:14.1	147.5	16.3					
IBBN	e PKPbc	Z 21:26:16.0	148.1	12.3					
	e PKPab	Z 21:26:20.5							
CLL	e PKPbc	Z 21:26:15.5	148.1	21.9					
	e PKPab	Z 21:26:20.6							
	e pPKPbc	Z 21:28:23.7							
CLZ	e PKPbc	Z 21:26:15.9	148.1	17.1					
BRG	e PKPbc	Z 21:26:16.3	148.2	23.8					
	e PKPab	Z 21:26:21.6							
	e pPKPbc	Z 21:28:24.6							
BUG	e PKPbc	Z 21:26:18.0	149.0	11.7					
MOX	e PKPbc	Z 21:26:18.1	149.0	19.8					
	e PKPab	Z 21:26:25.1							
	e pPKPbc	Z 21:28:27.5							
TANN	e PKPbc	Z 21:26:18.3	149.0	21.5					
	e PKPab	Z 21:26:25.0							
UBBA	e PKPbc	Z 21:26:18.2	149.1	16.9					
MANZ	e PKPbc	Z 21:26:19.7	149.5	21.1					
	e pPKPbc	Z 21:28:29.1							
ROTZ	e PKPbc	Z 21:26:20.1	149.7	21.4					
GRA1	e PKPbc	Z 21:26:20.9	150.0	19.7					
	e PKPab	Z 21:26:28.8							
	e pPKPbc	Z 21:28:33.1							
WET	e PKPbc	Z 21:26:20.9	150.1	23.0					
	e PKPab	Z 21:26:29.9							
	e pPKPbc	Z 21:28:31.6							
GEC2	e PKPbc	Z 21:26:20.6	150.1	24.7					
WLF	e PKPbc	Z 21:26:22.1	150.8	10.3					

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	e	PKPab	Z	21:26:32.2							
STU	e	PKPbc	Z	21:26:23.6	151.3	16.4					
	e	PKPab	Z	21:26:33.6							
FUR	e	PKPab	Z	21:26:35.1	151.4	20.7					
BFO	e	PKPbc	Z	21:26:24.5	151.8	15.0					
	e	PKPab	Z	21:26:35.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/04	22:35:57.0	22.350S	177.880W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	22:55:38.5	147.8	14.3				
NRDL	e	PKPbc	Z	22:55:41.3	149.2	14.6				
CLZ	e	PKPbc	Z	22:55:44.0	149.8	15.3				
CLL	e	PKPbc	Z	22:55:43.5	149.8	20.3				
	e	PKPab	Z	22:55:49.1						
BRG	e	PKPbc	Z	22:55:44.3	150.0	22.3				
	e	PKPab	Z	22:55:50.1						
MOX	e	PKPbc	Z	22:55:45.5	150.7	18.2				
TANN	e	PKPbc	Z	22:55:45.6	150.8	19.9				
	e	PKPab	Z	22:55:53.3						
MANZ	e	PKPbc	Z	22:55:47.5	151.3	19.5				
ROTZ	e	PKPbc	Z	22:55:47.9	151.5	19.8				
	e	PKPab	Z	22:55:55.0						
GRA1	e	PKPbc	Z	22:55:48.5	151.7	18.0				
WET	e	PKPbc	Z	22:55:49.0	151.9	21.5				
	e	PKPab	Z	22:55:58.1						
GEC2	e	PKPbc	Z	22:55:48.6	152.0	23.3				
	e	PKPab	Z	22:55:58.1						
STU	e	PKPbc	Z	22:55:51.5	153.0	14.5				
FUR	e	PKPbc	Z	22:55:51.6	153.2	19.0				
BFO	e	PKPbc	Z	22:55:52.6	153.6	13.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/04	23:55:37.0	39.373N	14.795E	33.0G	5.0			SZGRF

Tyrrhenian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e	P	Z	23:57:49.0	9.1	162.6	0.6	214		
	e	S	E	23:59:35.0						
WET	e	P	Z	23:57:57.4	9.9	171.3	0.5	128		
	e	S	N	23:59:50.5						
BFO	e	P	Z	23:58:00.3	10.1	150.2	0.5	210	5.5	
	e	S	N	23:59:56.6						

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STU	e P	Z	23:58:01.7	10.2	154.8	0.6	72	
	e S	N	23:59:59.1					
GRA1	e P	Z	23:58:06.8	10.6	164.9	0.5	322	
WERN	e P	Z	23:58:12.5	11.0	170.2			
GUNZ	e P	Z	23:58:13.7	11.1	170.1			
TANN	e P	Z	23:58:13.8	11.2	170.6	1.4	146	
MOX	e P	Z	23:58:18.4	11.5	167.6	0.6	104	
BRG	e P	Z	23:58:18.1	11.5	176.7	1.1	86	4.8
FBE	e P	Z	23:58:20.4	11.6	174.4			
WLF	e P	Z	23:58:23.8	12.0	146.0	0.8	42	
CLL	e P	Z	23:58:24.2	12.0	173.3	0.6	65	5.0
RUE	e P	Z	23:58:38.2	13.1	176.5			
BUG	e P	Z	23:58:39.1	13.2	153.6	0.7	27	4.6
IBBN	e P	Z	23:58:46.6	13.8	156.6	0.6	54	
GRA1	e S	N	00:00:08.5	10.6	164.9			
TANN	e S	E	00:00:21.6	11.2	170.6			
MOX	e S	E	00:00:30.8	11.5	167.6			
BRG	e S	N	00:00:30.7	11.5	176.7			
CLL	e S	E	00:00:42.5	12.0	173.3			
BUG	e S	N	00:01:09.8	13.2	153.6			
IBBN	e S	N	00:01:25.7	13.8	156.6			

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/05 13:26:21.2 44.739S 15.587W 33.0N 4.9 4.8
 Southern Mid-Atlantic Ridge SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	13:39:41.4	95.4	196.8	1.7	50	5.3		
FUR	e P	Z	13:39:45.2	95.8	198.8	0.9	43	5.4		
STU	e P	Z	13:39:43.9	96.0	197.4	0.6	12	5.0		
WLF	e P	Z	13:39:46.1	96.3	195.3	1.2	18	4.9		
WET	e P	Z	13:39:50.3	97.1	199.9	1.0	7	4.6		
GRA1	e P	Z	13:39:51.0	97.3	198.8	1.3	36	5.2		
	e L	Z	14:20:09.9			18.6	301		4.8	
ROTZ	e P	Z	13:39:52.5	97.6	199.5	1.5	13	4.8		
MANZ	e P	Z	13:39:54.4	97.7	199.5	1.2	8	4.7		
UBBA	e P	Z	13:39:55.4	98.1	198.1	1.4	10	4.7		
TANN	e P	Z	13:39:56.6	98.2	199.7	1.2	5	4.6		
NRDL	e P	Z	13:40:04.5	99.7	198.2	1.9	25	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/06 01:09:19.0 16.410N 93.610W 120.2 6.2
 Chiapas, Mexico SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z	01:21:34.2	83.3	288.8	1.4	642	6.7		

	e SKSac	R	01:31:43.5					
WLF	e P	Z	01:21:35.0	83.7	288.0			
BUG	e P	Z	01:21:35.3	83.8	288.6	1.8	399	6.3
	e pP	Z	01:22:08.9					
	e pPP	Z	01:25:16.7					
	e SKSac	R	01:31:47.7					
IBBN	e P	Z	01:21:35.5	83.8	288.9	1.9	615	6.5
	e pPP	Z	01:25:16.8					
	e SKSac	R	01:31:47.6					
BSEG	e P	Z	01:21:40.0	84.7	290.8	1.7	538	6.5
	e PP	Z	01:24:55.5					
	e SKSac	R	01:31:52.8					
NRDL	e P	Z	01:21:42.1	85.1	290.7	1.9	508	6.4
	e PP	Z	01:24:58.8					
	e pPP	Z	01:25:28.5					
	e SKSac	R	01:31:55.3					
BFO	e P	Z	01:21:43.1	85.5	289.7	1.5	180	6.1
	e SKSac	R	01:31:57.2					
CLZ	e P	Z	01:21:44.1	85.5	291.0	1.9	515	6.4
	e pP	Z	01:22:15.7					
	e SKSac	R	01:31:58.8					
UBBA	e P	Z	01:21:44.6	85.6	290.8	2.0	411	6.3
	e pPP	Z	01:25:30.8					
	e SKSac	R	01:32:00.6					
STU	e P	Z	01:21:45.4	85.9	290.3	1.6	304	6.3
	e PP	Z	01:25:05.9					
	e pPP	Z	01:25:33.7					
	e SKSac	R	01:32:01.6					
RGN	e P	Z	01:21:48.2	86.1	293.1	1.2	460	6.5
MOX	e P	Z	01:21:49.5	86.6	292.0	2.0	350	6.1
	e pP	Z	01:22:20.6					
	e PP	Z	01:25:11.0					
	e pPP	Z	01:25:40.7					
	e SKSac	R	01:32:06.0					
	e S	R	01:32:18.3					
GRA1	e P	Z	01:21:50.5	86.8	291.8	1.7	360	6.2
	e pP	Z	01:22:21.5					
	e SKSac	R	01:32:08.6					
	e S	R	01:32:19.2					
	e PKKP	Z	01:40:14.9					
GUNZ	e P	Z	01:21:52.7	87.2	292.6	1.8	243	6.0
RUE	e pPP	Z	01:25:43.4	87.2	293.6			
	e SKSac	R	01:32:07.4					
MANZ	e P	Z	01:21:52.3	87.2	292.4	2.3	335	6.1
	e PP	Z	01:25:16.7					
	e pPP	Z	01:25:43.7					
	e SKSac	R	01:32:10.8					
	e S	R	01:32:23.1					
CLL	e P	Z	01:21:52.0	87.2	293.0	1.9	202	5.9

	e pP	Z	01:22:22.6							
	e PP	Z	01:25:16.1							
	e SKSac	R	01:32:08.6							
	e S	R	01:32:21.9							
TANN	e P	Z	01:21:52.5	87.2	292.7	1.8	256	6.0		
	e PP	Z	01:25:16.2							
	e pPP	Z	01:25:44.2							
	e SKSac	R	01:32:09.5							
	e S	R	01:32:23.2							
ROTZ	e P	Z	01:21:53.3	87.3	292.5	2.3	361	6.1		
	e pP	Z	01:22:24.1							
	e PP	Z	01:25:18.0							
	e SKSac	R	01:32:11.9							
	e S	R	01:32:24.8							
FUR	e P	Z	01:21:53.0	87.4	291.9	2.1	327	6.1		
	e pPP	Z	01:25:45.8							
	e SKSac	R	01:32:12.0							
	e S	R	01:32:24.0							
BRG	e P	Z	01:21:55.5	87.9	293.8	2.0	213	5.9		
	e PP	Z	01:25:21.2							
	e pPP	Z	01:25:47.8							
	e SKSac	R	01:32:13.4							
	e S	R	01:32:28.2							
WET	e P	Z	01:21:56.2	88.0	293.0	2.6	635	6.3		
	e pP	Z	01:22:27.2							
	e SKSac	R	01:32:14.8							
	e S	R	01:32:29.7							
RJOB	e P	Z	01:21:58.7	88.5	293.0	2.7	434	6.3		
	e SKSac	R	01:32:18.0							
GEC2	e P	Z	01:21:58.6	88.6	293.6	1.4	70	5.8		
	e PP	Z	01:25:29.7							
	e pPP	Z	01:25:55.9							
	e SKSac	R	01:32:19.2							
	e S	R	01:32:35.2							

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/06 02:16: 8.6 20.190S 180.570W 50.0N
 Fiji Islands region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:35:38.5	145.2	18.1					
NRDL	e PKPbc	Z 02:35:43.4	146.7	18.4					
CLL	e PKPbc	Z 02:35:44.9	147.1	23.9					
BRG	e PKPbc	Z 02:35:45.6	147.3	25.8					
MOX	e PKPbc	Z 02:35:48.9	148.1	22.0					
TANN	e PKPbc	Z 02:35:48.0	148.1	23.6					
BUG	e PKPbc	Z 02:35:48.4	148.2	14.0					

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UBBA	e	PKPbc	Z	02:35:47.9	148.3	19.1
MANZ	e	PKPbc	Z	02:35:49.4	148.5	23.3
ROTZ	e	PKPbc	Z	02:35:49.9	148.7	23.6
GRA1	e	PKPbc	Z	02:35:50.3	149.0	21.9
GEC2	e	PKPbc	Z	02:35:50.9	149.1	26.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/06	12:02:4.7	22.020S	170.920E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e	PKPab	Z	12:21:44.6	147.0	38.6			
WERD	e	PKPab	Z	12:21:45.4	147.0	38.4			
IBBN	e	PKPab	Z	12:21:45.6	147.1	29.6			
GUNZ	e	PKPab	Z	12:21:45.8	147.1	38.5			
WERN	e	PKPab	Z	12:21:45.9	147.1	38.6			
MOX	e	PKPab	Z	12:21:45.4	147.1	37.1			
MANZ	e	PKPab	Z	12:21:47.2	147.5	38.5			
ROTZ	e	PKPab	Z	12:21:47.7	147.6	38.9			
GEC2	e	PKPab	Z	12:21:47.4	147.6	42.1			
WET	e	PKPab	Z	12:21:49.2	147.8	40.6			
GRA1	e	PKPab	Z	12:21:48.7	148.0	37.4			
WLF	e	PKPab	Z	12:21:56.9	149.9	29.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/06	15:58:59.4	34.100S	178.600W	71.0				NEIC

South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKPab	Z	16:19:44.9	162.8	28.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/06	17:40:55.3	16.097S	172.878W	30.9		5.2		SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e	PKPbc	Z	18:00:25.6	144.2	5.3			
CLL	e	PKPbc	Z	18:00:25.4	144.5	9.8			
BRG	e	PKPbc	Z	18:00:27.4	144.8	11.4			
UBBA	e	PKPbc	Z	18:00:28.6	145.2	4.9			
	e	pPKPbc	Z	18:00:37.5					
MOX	e	PKPbc	Z	18:00:28.2	145.3	7.6			
	e	pPKPbc	Z	18:00:37.5					

TANN	e	PKPbc	Z	18:00:28.6	145.4	9.1					
MANZ	e	PKPbc	Z	18:00:30.3	145.9	8.6					
ROTZ	e	PKPbc	Z	18:00:31.2	146.1	8.8					
	e	pPKPbc	Z	18:00:40.9							
GRA1	e	PKPbc	Z	18:00:31.8	146.2	7.1					
	e	pPKPbc	Z	18:00:41.4							
	e	L	Z	19:11:50.0			18.0	397		5.2	
WLF	e	PKPbc	Z	18:00:32.4	146.4	358.3					
WET	e	PKPbc	Z	18:00:33.0	146.6	10.1					
GEC2	e	PKPbc	Z	18:00:33.5	146.8	11.6					
STU	e	PKPbc	Z	18:00:35.5	147.3	3.7					
	e	pPKPbc	Z	18:00:44.4							
BFO	e	PKPbc	Z	18:00:35.5	147.8	2.2					
FUR	e	PKPbc	Z	18:00:35.7	147.8	7.5					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/06 19:08:18.5 10.041N 72.639W 156.0G 5.1 NEIC
 Venezuela

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:20:18.4	78.4	271.9	1.0	15	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/07 22:44:27.6 15.100S 75.000W 31.0 4.3 NEIC
 Near coast of Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 22:58:05.7	99.1	257.3					
	e pPdiff	Z 22:58:15.6							
	e L	Z 00:20:25.0			21.3	93		4.3	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/07 00:51:10.5 20.685S 179.677E 33.0N SZGRF
 South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 01:10:51.7	147.7	19.0					
ROTZ	e PKPbc	Z 01:10:55.5	149.3	23.4					
GRA1	e PKPbc	Z 01:10:56.5	149.6	21.7					
WET	e PKPbc	Z 01:10:56.7	149.7	25.0					
GEC2	e PKPbc	Z 01:10:56.9	149.7	26.7					
BFO	e PKPbc	Z 01:11:01.5	151.5	17.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/07	16:52:46.2	22.450S	177.790W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:12:28.1	147.9	14.2					
RUE	e PKPbc	Z	17:12:30.1	148.7	20.9					
NRDL	e PKPbc	Z	17:12:31.6	149.4	14.4					
CLZ	e PKPbc	Z	17:12:33.3	149.9	15.2					
CLL	e PKPbc	Z	17:12:33.0	150.0	20.2					
	e PKPab	Z	17:12:38.4							
BRG	e PKPbc	Z	17:12:33.7	150.1	22.2					
	e PKPab	Z	17:12:39.0							
FBE	e PKPbc	Z	17:12:35.5	150.2	21.1					
BUG	e PKPbc	Z	17:12:35.4	150.7	9.6					
MOX	e PKPbc	Z	17:12:35.3	150.9	18.1					
	e PKPab	Z	17:12:42.4							
TANN	e PKPbc	Z	17:12:35.7	150.9	19.8					
	e PKPab	Z	17:12:42.6							
WERD	e PKPbc	Z	17:12:35.8	150.9	19.5					
GUNZ	e PKPbc	Z	17:12:36.0	151.0	19.6					
WERN	e PKPbc	Z	17:12:36.1	151.0	19.7					
	e PKPab	Z	17:12:43.5							
MANZ	e PKPbc	Z	17:12:36.5	151.4	19.4					
ROTZ	e PKPbc	Z	17:12:37.2	151.6	19.7					
GRA1	e PKPbc	Z	17:12:38.0	151.8	17.9					
	e PKPab	Z	17:12:46.9							
WET	e PKPbc	Z	17:12:38.3	152.0	21.4					
	e PKPab	Z	17:12:47.4							
GEC2	e PKPbc	Z	17:12:38.2	152.1	23.2					
WLF	e PKPbc	Z	17:12:40.0	152.6	7.9					
STU	e PKPbc	Z	17:12:40.4	153.1	14.4					
FUR	e PKPbc	Z	17:12:40.6	153.3	18.9					
	e PKPab	Z	17:12:52.9							
RJOB	e PKPbc	Z	17:12:40.6	153.3	22.2					
	e PKPab	Z	17:12:53.2							
BFO	e PKPbc	Z	17:12:41.6	153.7	12.8					
	e PKPab	Z	17:12:53.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/07	17:13:34.1	24.764S	179.952E	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:33:21.1	149.8	19.0					

NRDL	e	PKPbc	Z	17:33:24.7	151.2	19.4
CLL	e	PKPbc	Z	17:33:25.4	151.6	25.6
BRG	e	PKPbc	Z	17:33:25.8	151.8	27.6
CLZ	e	PKPbc	Z	17:33:25.9	151.8	20.3
TANN	e	PKPbc	Z	17:33:28.0	152.6	25.3
MOX	e	PKPbc	Z	17:33:27.4	152.6	23.5
UBBA	e	PKPbc	Z	17:33:28.1	152.8	20.3
MANZ	e	PKPbc	Z	17:33:28.8	153.1	25.0
ROTZ	e	PKPbc	Z	17:33:28.8	153.2	25.3
GRA1	e	PKPbc	Z	17:33:29.6	153.6	23.5
WET	e	PKPbc	Z	17:33:29.7	153.6	27.2
GEC2	e	PKPbc	Z	17:33:29.6	153.6	29.1

Date Origin Time Lat Long Depth mb Ms ML Source

2007/07/07

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML

GRA1 e P Z 20:48:17.5

Date Origin Time Lat Long Depth mb Ms ML Source

2007/07/07 22:09: 0.9

Fiji Islands region

21.315S 178.290W 33.0N SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML

BSEG	e	PKPbc	Z	22:28:39.4	146.7	14.7
NRDL	e	PKPbc	Z	22:28:43.1	148.2	14.9
	e	PKPab	Z	22:28:46.5		
IBBN	e	PKPbc	Z	22:28:44.9	148.7	10.9
CLL	e	PKPbc	Z	22:28:44.6	148.7	20.6
	e	PKPab	Z	22:28:49.0		
CLZ	e	PKPbc	Z	22:28:44.9	148.7	15.7
	e	PKPab	Z	22:28:49.1		
BRG	e	PKPbc	Z	22:28:45.4	148.9	22.5
	e	PKPab	Z	22:28:50.0		
MOX	e	PKPbc	Z	22:28:47.4	149.7	18.5
TANN	e	PKPbc	Z	22:28:47.3	149.7	20.1
	e	PKPab	Z	22:28:53.2		
UBBA	e	PKPbc	Z	22:28:47.5	149.8	15.5
MANZ	e	PKPbc	Z	22:28:48.4	150.2	19.8
ROTZ	e	PKPbc	Z	22:28:48.8	150.4	20.1
	e	PKPab	Z	22:28:56.4		
GRA1	e	PKPbc	Z	22:28:49.6	150.6	18.3
WET	e	PKPbc	Z	22:28:49.6	150.8	21.7
	e	PKPab	Z	22:28:58.1		
GEC2	e	PKPbc	Z	22:28:50.1	150.9	23.4

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	e PKPab	Z	22:28:58.4									
WLF	e PKPbc	Z	22:28:52.1	151.4	8.7							
STU	e PKPbc	Z	22:28:52.7	151.9	14.9							
	e PKPab	Z	22:29:02.4									
FUR	e PKPbc	Z	22:28:52.8	152.1	19.3							
	e PKPab	Z	22:29:03.6									
BFO	e PKPbc	Z	22:28:53.7	152.5	13.4							
	e PKPab	Z	22:29:04.7									

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/07/08

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 00:09:12.8							
	e Sn	E 00:09:54.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/07/08

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 03:31:15.8							
GRA1	e P	Z 03:31:17.7							
WET	e P	Z 03:31:08.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/08	07:31:45.7	34.688N	27.358E	15.0G	3.4			KAN

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:36:19.3	19.1	135.7	0.8	2	3.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/08	07:48:15.6	1.120N	95.870E	25.3	4.8			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 08:00:44.3	84.0	95.2	1.2	12	5.0		
	e pP	Z 08:00:51.4							
BRG	e P	Z 08:00:44.3	84.0	95.6	1.3	6	4.6		
RJOB	e P	Z 08:00:46.5	84.5	94.4	1.2	6	4.7		
WET	e P	Z 08:00:46.9	84.6	94.6	1.1	6	4.8		

	e pP	Z	08:00:53.9							
TANN	e P	Z	08:00:48.6	84.9	94.4	1.1	5	4.6		
GUNZ	e P	Z	08:00:49.2	85.0	94.3	1.2	5	4.6		
ROTZ	e P	Z	08:00:49.8	85.1	94.1	0.9	5	4.7		
	e pP	Z	08:00:57.3							
MANZ	e P	Z	08:00:50.4	85.1	94.1	1.1	10	5.0		
MOX	e P	Z	08:00:51.3	85.5	93.7	1.1	3	4.4		
GRA1	e P	Z	08:00:52.9	85.7	93.4	1.0	9	4.8		
	e pP	Z	08:01:00.9							
CLZ	e P	Z	08:00:55.2	86.3	92.9	1.2	11	4.9		
BFO	e P	Z	08:01:01.2	87.5	91.1	1.1	4	4.7		
BUG	e P	Z	08:01:05.5	88.3	90.4	0.7	7	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/08	08:59:0.9	19.732S	173.789W	33.0				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	09:18:16.1	145.7	6.9					
CLL	e PKPbc	Z	09:18:22.7	148.0	12.1					
BRG	e PKPbc	Z	09:18:23.2	148.3	13.9					
BUG	e PKPbc	Z	09:18:23.1	148.3	1.9					
MOX	e PKPbc	Z	09:18:26.0	148.8	9.9					
WERD	e PKPbc	Z	09:18:25.0	148.9	11.2					
TANN	e PKPbc	Z	09:18:25.4	148.9	11.5					
WERN	e PKPbc	Z	09:18:26.1	149.1	11.3					
MANZ	e PKPbc	Z	09:18:26.4	149.4	10.9					
ROTZ	e PKPbc	Z	09:18:27.4	149.6	11.2					
GRA1	e PKPbc	Z	09:18:28.0	149.8	9.4					
WLF	e PKPbc	Z	09:18:29.4	150.1	359.9					
WET	e PKPbc	Z	09:18:28.8	150.1	12.7					
GEC2	e PKPbc	Z	09:18:28.2	150.3	14.3					
BFO	e PKPbc	Z	09:18:30.7	151.4	4.2					
RJOB	e PKPbc	Z	09:18:30.7	151.5	13.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/08	09:17:29.1	53.610N	164.040W	36.5	4.9			SZGRF

Unimak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	09:29:01.9	73.8	356.4					
IBBN	e P	Z	09:29:03.0	73.9	354.9	1.1	19	5.0		
CLZ	e P	Z	09:29:06.2	74.4	356.6	1.1	18	5.0		
BUG	e P	Z	09:29:07.2	74.7	354.7	1.3	24	5.1		
CLL	e P	Z	09:29:09.1	75.1	358.2	1.3	12	4.8		

UBBA	e P	Z	09:29:12.2	75.5	356.4	2.3	44	5.2
BRG	e P	Z	09:29:11.8	75.5	358.8	1.1	8	4.7
MOX	e P	Z	09:29:13.1	75.7	357.3	1.2	15	5.0
TANN	e P	Z	09:29:14.4	75.9	357.9	1.5	15	4.9
MANZ	e P	Z	09:29:17.1	76.4	357.6	1.3	9	4.7
WLF	e P	Z	09:29:17.1	76.4	354.0	1.2	18	5.1
ROTZ	e P	Z	09:29:18.5	76.6	357.7	1.1	10	4.8
GRA1	e P	Z	09:29:18.8	76.6	357.1	0.9	15	5.1
	e pP	Z	09:29:29.3					
WET	e P	Z	09:29:21.8	77.2	358.1	1.3	9	4.8
STU	e P	Z	09:29:23.1	77.5	355.9	1.0	12	5.0
GEC2	e P	Z	09:29:23.5	77.5	358.6	1.0	5	4.6
BFO	e P	Z	09:29:25.1	77.9	355.4	1.2	10	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/08	13:44:36.5	35.290N	44.110E	33.0G	4.4	3.3		SZGRF
Iraq								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	13:50:07.7	26.1	109.9	1.3	8	4.2		
RJOB	e P	Z	13:50:10.5	26.3	106.7	1.0	8	4.3		
WET	e P	Z	13:50:12.5	26.7	109.5	1.1	6	4.3		
BRG	e P	Z	13:50:14.6	26.7	114.0	1.1	7	4.3		
ROTZ	e P	Z	13:50:18.8	27.3	109.9	1.2	10	4.4		
WERN	e P	Z	13:50:19.8	27.4	111.0	1.6	12	4.4		
CLL	e P	Z	13:50:21.1	27.4	113.6	0.9	6	4.4		
MANZ	e P	Z	13:50:20.4	27.4	110.1	0.9	3	4.0		
WERD	e P	Z	13:50:20.1	27.5	111.2	1.3	5	4.2		
GRA1	e P	Z	13:50:24.3	27.9	108.6	1.4	23	4.8		
	e L	Z	13:55:50.1			21.1	85		3.3	
MOX	e P	Z	13:50:25.5	28.0	110.7	2.2	21	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/08	18:54:14.8	48.090N	154.320E	64.0	5.6			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	19:05:43.8	73.5	24.2	1.0	50	5.5		
NRDL	e P	Z	19:05:51.1	74.9	23.9	1.1	47	5.4		
CLL	e P	Z	19:05:52.9	75.2	25.6	1.1	97	5.8		
BRG	e P	Z	19:05:53.4	75.4	26.1	1.4	61	5.5		
	e pP	Z	19:06:11.1							
CLZ	e P	Z	19:05:54.6	75.4	24.0	1.4	156	6.0		
IBBN	e P	Z	19:05:55.5	75.6	22.3	0.8	60	5.8		
TANN	e P	Z	19:05:58.5	76.2	25.1	0.9	24	5.3		

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MOX	e P	Z	19:05:58.5	76.2	24.6	1.3	76	5.7
	e pP	Z	19:06:16.1					
UBBA	e P	Z	19:05:59.9	76.5	23.6	1.5	76	5.6
BUG	e P	Z	19:06:00.3	76.6	21.9	1.1	71	5.7
	e pP	Z	19:06:18.2					
MANZ	e P	Z	19:06:01.1	76.7	24.9	1.1	43	5.5
ROTZ	e P	Z	19:06:02.5	76.8	24.9	1.0	60	5.7
GRA1	e P	Z	19:06:04.4	77.2	24.3	1.2	128	5.9
	e pP	Z	19:06:21.9					
WET	e P	Z	19:06:04.6	77.2	25.3	1.2	85	5.8
	e pP	Z	19:06:22.1					
GEC2	e P	Z	19:06:04.4	77.3	25.8	0.9	27	5.4
WLF	e P	Z	19:06:11.2	78.5	21.1	1.0	52	5.5
STU	e P	Z	19:06:11.8	78.5	22.9	1.3	111	5.7
	e pP	Z	19:06:29.3					
FUR	e P	Z	19:06:12.1	78.6	24.2	1.3	118	5.8
	e pP	Z	19:06:29.6					
BFO	e P	Z	19:06:15.1	79.2	22.4	1.1	100	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	03:08:23.9	26.520S	173.690E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 03:28:10.4	150.0	30.8					
BRG	e PKPbc	Z 03:28:14.1	151.2	40.0					
CLL	e PKPbc	Z 03:28:13.4	151.2	37.9					
NRDL	e PKPbc	Z 03:28:14.5	151.3	31.7					
CLZ	e PKPbc	Z 03:28:15.2	151.7	32.8					
TANN	e PKPbc	Z 03:28:16.8	152.1	38.0					
WERD	e PKPbc	Z 03:28:15.9	152.2	37.7					
GUNZ	e PKPbc	Z 03:28:16.7	152.2	37.8					
WERN	e PKPbc	Z 03:28:16.7	152.3	38.0					
MANZ	e PKPbc	Z 03:28:17.1	152.6	37.9					
GEC2	e PKPbc	Z 03:28:17.6	152.8	42.1					
WET	e PKPbc	Z 03:28:18.0	152.9	40.3					
GRA1	e PKPbc	Z 03:28:17.0	153.2	36.7					
WLF	e PKPbc	Z 03:28:22.5	154.9	27.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	06:50:50.7	26.300S	178.100W	35.0				NEIC

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 07:10:39.4	155.5	20.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	07:05:18.3	28.536N	129.769E	33.0N	5.0			SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:17:36.5	82.4	50.5	0.8	20	5.3		
BRG	e P	Z	07:17:36.7	82.6	52.9	0.9	6	4.7		
CLL	e P	Z	07:17:37.7	82.8	52.2	0.9	21	5.3		
NRDL	e P	Z	07:17:41.1	83.4	50.2	1.0	11	4.8		
TANN	e P	Z	07:17:42.1	83.6	51.8	1.3	11	4.7		
CLZ	e P	Z	07:17:43.0	83.7	50.4	1.2	37	5.3		
MOX	e P	Z	07:17:43.2	83.9	51.2	1.1	7	4.6		
GEC2	e P	Z	07:17:43.6	83.9	52.5	0.9	9	4.8		
MANZ	e P	Z	07:17:44.3	84.1	51.5	1.0	7	4.7		
ROTZ	e P	Z	07:17:45.0	84.1	51.5	1.1	17	5.0		
WET	e P	Z	07:17:45.1	84.2	52.0					
UBBA	e P	Z	07:17:47.4	84.6	50.0	1.3	20	4.9		
IBBN	e P	Z	07:17:48.6	84.6	48.4	1.0	45	5.3		
GRA1	e P	Z	07:17:49.2	84.7	50.8	0.8	20	5.1		
WLF	e P	Z	07:18:01.6	87.2	47.1	1.4	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	14:05:32.0	17.592N	120.860E	36.5	5.4			SZGRF

Luzon, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:18:11.7	86.6	66.0	1.1	55	5.6		
	e pP	Z	14:18:20.9							
CLL	e P	Z	14:18:13.1	87.0	65.3	1.2	54	5.6		
BSEG	e P	Z	14:18:15.3	87.3	63.3					
GEC2	e P	Z	14:18:16.6	87.6	65.7	1.3	36	5.6		
	e pP	Z	14:18:25.7							
TANN	e P	Z	14:18:16.7	87.6	64.9	1.3	28	5.4		
WET	e P	Z	14:18:18.3	87.9	65.1	1.5	38	5.5		
MOX	e P	Z	14:18:18.6	88.0	64.2	1.3	28	5.4		
MANZ	e P	Z	14:18:18.8	88.0	64.6	1.2	19	5.3		
	e pP	Z	14:18:29.5							
NRDL	e P	Z	14:18:19.1	88.0	63.1	1.4	38	5.5		
ROTZ	e P	Z	14:18:19.3	88.1	64.6	1.3	40	5.6		
	e pP	Z	14:18:29.7							
CLZ	e P	Z	14:18:19.9	88.2	63.3	1.4	42	5.6		
GRA1	e P	Z	14:18:21.8	88.7	63.9	1.4	25	5.3		
	e pP	Z	14:18:32.5							

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UBBA	e P	Z	14:18:22.4	88.9	63.0	1.6	28	5.2
FUR	e P	Z	14:18:25.2	89.3	63.9	1.1	48	5.6
BUG	e P	Z	14:18:28.3	90.1	60.9	1.0	13	5.1
BFO	e P	Z	14:18:32.3	91.0	61.7	1.2	13	5.2
WLF	e P	Z	14:18:35.5	91.6	60.0	1.4	41	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	15:58:31.9	34.565N	7.793E	33.0G	4.5	3.3		SZGRF

Northern Algeria

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 16:01:45.0	13.8	181.9					
FUR	e Pn	Z 16:01:47.2	13.8	192.1					
STU	e Pn	Z 16:01:51.4	14.2	184.7	0.9	56			
GEC2	e Pn	Z 16:02:01.1	14.9	199.2	0.8	63			
WET	e Pn	Z 16:02:01.8	15.1	196.3	1.0	47			
WLF	e Pn	Z 16:02:02.0	15.1	174.8	1.3	158			
GRA1	e Pn	Z 16:02:04.9	15.3	190.7	1.0	77			
	e L	Z 16:07:59.0			21.7	249		3.3	
ROTZ	e Pn	Z 16:02:08.2	15.5	193.7	1.5	80			
MANZ	e Pn	Z 16:02:10.7	15.7	193.2	1.2	141			
TANN	e Pn	Z 16:02:16.7	16.2	193.9	1.1	116			
MOX	e Pn	Z 16:02:17.4	16.3	191.3	1.0	39			
UBBA	e Pn	Z 16:02:18.2	16.3	186.5	1.6	128			
BUG	e Pn	Z 16:02:24.1	16.9	178.5					
BRG	e Pn	Z 16:02:25.2	16.9	197.7	1.0	33	4.4		
CLL	e Pn	Z 16:02:29.1	17.2	194.7	1.1	30	4.3		
CLZ	e Pn	Z 16:02:32.1	17.4	187.1	1.0	60	4.8		
NRDL	e P	Z 16:02:39.1	18.0	186.2					
BSEG	e P	Z 16:02:54.1	19.5	186.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:37:05.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	20:16:40.5	35.474N	141.102E	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 20:29:07.9	84.0	38.9	1.5	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09	22:07:10.1	46.181N	16.562E	10.0G			2.4	SZGRF
Northwestern Balkan Peninsula								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pg	Z 22:07:33.0	1.3	146.0					2.4
	e Sg	N 22:07:51.2							
MOA	e Pn	Z 22:07:48.0	2.3	136.0					2.3
GEC2	e Pn	Z 22:08:02.2	3.3	143.0					2.6
	e Sn	N 22:08:40.3							
WERN	e Pn	Z 22:08:24.3	5.0	144.2					
GUNZ	e Pn	Z 22:08:25.5	5.0	144.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 22:31:57.9							
	e Sn	E 22:32:36.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/10	00:03:35.8	39.050N	75.920E	33.0N	4.8	3.7		SZGRF
Southern Xinjiang, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FBE	e P	Z 00:11:47.9	44.4	80.2	0.6	18	5.2		
CLL	e P	Z 00:11:46.3	44.5	80.3	0.6	9	4.9		
GEC2	e P	Z 00:11:47.3	44.6	78.3	0.7	10	4.9		
WET	e P	Z 00:11:50.7	45.0	78.1	0.7	8	4.8		
TANN	e P	Z 00:11:50.6	45.0	79.1	0.8	6	4.6		
WERN	e P	Z 00:11:50.0	45.1	78.9	1.4	7	4.4		
WERD	e P	Z 00:11:50.9	45.1	79.0	0.7	6	4.7		
GUNZ	e P	Z 00:11:51.3	45.1	78.9	0.7	7	4.7		
ROTZ	e P	Z 00:11:53.4	45.3	78.3	0.9	4	4.4		
MANZ	e P	Z 00:11:53.2	45.3	78.4	0.8	3	4.4		
MOX	e P	Z 00:11:54.5	45.5	78.8	0.8	5	4.6		
BSEG	e P	Z 00:11:56.7	45.7	81.0	0.7	14	5.1		
GRA1	e P	Z 00:11:58.8	46.0	77.6	0.8	19	5.2		
	e L	Z 00:31:43.9			19.6	77		3.7	
CLZ	e P	Z 00:11:58.8	46.1	79.1	0.9	6	4.7		
NRDL	e P	Z 00:11:59.4	46.1	79.5	1.1	14	4.9		
FUR	e P	Z 00:12:01.1	46.3	76.2	0.7	20	5.2		

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UBBA	e P	Z	00:12:02.1	46.5	77.9	0.6	3	4.7
BFO	e P	Z	00:12:14.8	48.1	74.6	0.8	6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/10	04:29:32.5	19.780S	178.270W	618.9				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	04:48:07.4	147.2	15.1					
	e PKPab	Z	04:48:11.3							
CLL	e PKPbc	Z	04:48:06.6	147.2	19.9					
	e PKPab	Z	04:48:11.4							
	e pPKPbc	Z	04:50:26.6							
BRG	e PKPbc	Z	04:48:07.7	147.4	21.7					
	e PKPab	Z	04:48:12.4							
	e pPKPbc	Z	04:50:26.8							
BUG	e PKPbc	Z	04:48:09.3	148.0	9.9					
	e PKPab	Z	04:48:14.2							
MOX	e PKPbc	Z	04:48:09.6	148.2	17.8					
	e PKPab	Z	04:48:14.8							
	e pPKPbc	Z	04:50:28.0							
TANN	e PKPbc	Z	04:48:09.6	148.2	19.4					
	e PKPab	Z	04:48:15.0							
UBBA	e PKPbc	Z	04:48:10.2	148.3	14.9					
	e PKPab	Z	04:48:15.6							
	e pPKPbc	Z	04:50:31.5							
MANZ	e PKPbc	Z	04:48:10.7	148.7	19.0					
	e PKPab	Z	04:48:17.5							
ROTZ	e PKPbc	Z	04:48:11.1	148.9	19.3					
	e PKPab	Z	04:48:17.6							
	e pPKPbc	Z	04:50:34.4							
GRA1	e PKPab	Z	04:48:19.8	149.1	17.6					
	e pPKPbc	Z	04:50:35.5							
WET	e PKPab	Z	04:48:20.2	149.3	20.9					
	e pPKPbc	Z	04:50:36.5							
GEC2	e PKPbc	Z	04:48:12.2	149.4	22.5					
	e PKPab	Z	04:48:19.5							
	e pPKPbc	Z	04:50:35.4							
FUR	e PKPab	Z	04:48:25.7	150.6	18.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/10	04:48: 6.1	51.660N	169.780W	33.0N	4.9			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e P	Z	04:59:43.4	74.4	0.1	1.0	14	4.9
NRDL	e P	Z	04:59:52.3	75.8	359.9	1.2	12	4.9
IBBN	e P	Z	04:59:52.5	76.0	358.4	0.7	18	5.3
CLZ	e P	Z	04:59:55.6	76.5	0.1	1.1	19	5.1
BUG	e P	Z	04:59:57.0	76.9	358.1	0.9	13	5.1
CLL	e P	Z	04:59:57.6	77.0	1.8	0.8	9	4.9
BRG	e P	Z	05:00:00.2	77.4	2.4	1.0	12	5.0
MOX	e P	Z	05:00:01.8	77.7	0.9	0.9	10	4.9
MANZ	e P	Z	05:00:05.5	78.3	1.2	1.1	6	4.6
ROTZ	e P	Z	05:00:07.1	78.6	1.3	0.9	6	4.6
WLF	e P	Z	05:00:07.9	78.6	357.4	1.3	20	5.0
GRA1	e P	Z	05:00:07.5	78.6	0.6	1.1	20	5.1
WET	e P	Z	05:00:10.4	79.2	1.7	1.0	8	4.6
GEC2	e P	Z	05:00:11.6	79.5	2.2	1.2	12	4.7
BFO	e P	Z	05:00:14.6	80.0	358.8	1.0	10	4.7
FUR	e P	Z	05:00:15.6	80.2	0.7	0.4	16	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/10	18:28:36.3	3.741N	92.946E	28.6	4.9			SZGRF
Off west coast of northern Sumatra, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 18:40:44.7	80.1	95.7	0.8	17	5.0		
	e pP	Z 18:40:53.1							
BRG	e P	Z 18:40:44.6	80.2	96.2	0.9	8	4.7		
	e pP	Z 18:40:53.3							
FBE	e P	Z 18:40:47.0	80.5	95.7	0.9	13	5.0		
	e pP	Z 18:40:55.5							
WET	e P	Z 18:40:47.5	80.7	95.1	0.9	7	4.7		
	e pP	Z 18:40:56.0							
CLL	e P	Z 18:40:47.8	80.8	95.5	1.0	7	4.6		
	e pP	Z 18:40:56.5							
WERN	e pP	Z 18:40:58.1	81.1	94.9					
GUNZ	e pP	Z 18:40:58.3	81.1	94.9					
WERD	e pP	Z 18:40:58.4	81.2	94.9					
ROTZ	e P	Z 18:40:50.4	81.2	94.7	0.9	9	4.8		
	e pP	Z 18:40:59.2							
MOX	e P	Z 18:40:52.0	81.6	94.3	0.7	4	4.7		
	e pP	Z 18:41:00.4							
GRA1	e P	Z 18:40:53.4	81.8	93.9	0.8	14	5.1		
	e pP	Z 18:41:00.6							
CLZ	e P	Z 18:40:56.4	82.5	93.5	0.8	6	4.8		
	e pP	Z 18:41:04.9							
BSEG	e P	Z 18:40:58.1	82.6	93.8	0.8	9	5.1		
	e pP	Z 18:41:05.8							
BFO	e P	Z 18:41:03.0	83.6	91.5	0.9	6	4.9		
	e pP	Z 18:41:10.6							

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BUG	e P	Z	18:41:07.2	84.4	91.0	0.9	10	5.0
	e pP	Z	18:41:15.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/10	18:40:13.7	13.500S	167.100E	196.0				NEIC
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	18:59:13.5	136.8	39.9					
CLL	e PKPdf	Z	18:59:15.0	136.8	38.4					
NRDL	e PKPdf	Z	18:59:15.0	136.9	33.8					
FBE	e PKPdf	Z	18:59:14.1	137.0	39.1					
WERD	e PKPdf	Z	18:59:15.4	137.8	38.0					
GUNZ	e PKPdf	Z	18:59:15.6	137.8	38.1					
WERN	e PKPdf	Z	18:59:15.7	137.8	38.2					
MOX	e PKPdf	Z	18:59:16.9	137.9	37.0					
GEC2	e PKPdf	Z	18:59:16.1	138.4	41.0					
WET	e PKPdf	Z	18:59:16.8	138.5	39.7					
BUG	e PKPdf	Z	18:59:18.9	138.7	30.5					
GRA1	e PKPdf	Z	18:59:19.2	138.8	37.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/11	03:02:10.3	4.800S	152.500E	75.0				NEIC
New Britain, Papua New Guinea, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	03:20:57.2	122.1	46.1					
BRG	e PKPdf	Z	03:20:57.5	122.4	51.4					
	e pPKPdf	Z	03:21:15.4							
CLL	e PKPdf	Z	03:20:57.5	122.6	50.2					
FBE	e PKPdf	Z	03:20:58.3	122.7	50.8					
NRDL	e PKPdf	Z	03:20:59.2	123.2	46.6					
	e pPKPdf	Z	03:21:17.0							
CLZ	e PKPdf	Z	03:20:59.9	123.5	47.2					
WERD	e PKPdf	Z	03:20:59.8	123.5	49.9					
	e pPKPdf	Z	03:21:17.4							
GUNZ	e PKPdf	Z	03:20:59.8	123.5	50.0					
WERN	e PKPdf	Z	03:20:59.9	123.6	50.1					
MOX	e PKPdf	Z	03:20:59.5	123.7	49.1					
GEC2	e PKPdf	Z	03:21:00.1	123.8	52.2					
	e pPKPdf	Z	03:21:18.1							
ROTZ	e PKPdf	Z	03:21:00.3	124.0	50.2					
WET	e PKPdf	Z	03:21:00.6	124.0	51.2					
IBBN	e PKPdf	Z	03:21:01.5	124.3	44.1					
UBBA	e PKPdf	Z	03:21:01.5	124.4	47.3					

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GRA1	e	PKPdf	Z	03:21:01.8	124.5	49.2
BUG	e	PKPdf	Z	03:21:03.1	125.1	44.0
FUR	e	PKPdf	Z	03:21:03.6	125.5	50.0
STU	e	PKPdf	Z	03:21:04.7	126.1	47.5
	e	pPKPdf	Z	03:21:22.4		
BFO	e	PKPdf	Z	03:21:05.4	126.8	46.8
WLF	e	PKPdf	Z	03:21:06.9	126.9	43.7
	e	pPKPdf	Z	03:21:24.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/11	06:51:19.8	38.273N	47.498E	33.0N	4.9	3.6		SZGRF

Northwestern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 06:56:53.0	26.4	100.8	1.1	26	4.8		
WET	e P	Z 06:56:59.0	27.0	100.6	1.0	11	4.5		
RUE	e P	Z 06:56:59.9	27.3	107.9	1.0	46	5.1		
CLL	e P	Z 06:57:01.2	27.4	104.8					
GRA1	e P	Z 06:57:09.4	28.1	100.0	1.4	21	4.8		
	e L	Z 07:10:39.3			19.4	154		3.6	
CLZ	e P	Z 06:57:17.2	29.1	103.0	1.1	19	4.8		
IBBN	e P	Z 06:57:32.6	30.8	101.2	0.6	20	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/11	16:58:25.8	19.240S	179.420W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 17:18:02.9	146.5	21.6					
CLZ	e PKPbc	Z 17:18:03.2	146.5	16.9					
BRG	e PKPbc	Z 17:18:03.9	146.6	23.4					
ROTZ	e PKPbc	Z 17:18:08.1	148.1	21.1					
GRA1	e PKPbc	Z 17:18:08.3	148.4	19.4					
GEC2	e PKPbc	Z 17:18:09.3	148.6	24.3					
WLF	e PKPbc	Z 17:18:11.3	149.3	10.3					
BFO	e PKPbc	Z 17:18:13.2	150.2	14.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/11	19:21:52.8	5.100S	153.200E	35.0				NEIC

New Ireland, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 19:40:45.8	122.6	45.5					

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BRG	e	PKPdf	Z	19:40:46.3	123.0	50.8
CLL	e	PKPdf	Z	19:40:46.3	123.2	49.7
CLZ	e	PKPdf	Z	19:40:48.6	124.1	46.6
GEC2	e	PKPdf	Z	19:40:49.2	124.4	51.7
ROTZ	e	PKPdf	Z	19:40:49.5	124.6	49.6
WET	e	PKPdf	Z	19:40:50.0	124.7	50.6
IBBN	e	PKPdf	Z	19:40:50.5	124.9	43.5
UBBA	e	PKPdf	Z	19:40:50.8	124.9	46.7
GRA1	e	PKPdf	Z	19:40:50.3	125.1	48.6
FUR	e	PKPdf	Z	19:40:53.1	126.1	49.5
STU	e	PKPdf	Z	19:40:54.8	126.7	46.9
BFO	e	PKPdf	Z	19:40:55.2	127.4	46.2
WLF	e	PKPdf	Z	19:40:56.3	127.5	43.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/11	23:08:19.7	33.564N	90.261E	33.0N	4.5			SZGRF
Qinghai, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:18:12.2	58.4	73.9	1.2	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/12	05:23:34.0	8.310S	74.340W	143.2	6.1			SZGRF
Peru-Brazil border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 05:36:31.0	90.3	257.4	1.0	313	6.5		
	e PP	Z 05:40:05.5							
	e SKSac	R 05:46:48.9							
BUG	e P	Z 05:36:35.7	91.3	258.3	1.1	267	6.5		
	e SS	T 05:53:29.0							
BFO	e P	Z 05:36:36.2	91.4	259.0	6.2	4919	7.0		
	e pP	Z 05:37:12.0							
	e PP	Z 05:40:13.4							
	e SKSac	R 05:46:53.8							
	e SS	T 05:53:30.5							
IBBN	e P	Z 05:36:38.0	91.8	258.7	1.1	264	6.5		
STU	e P	Z 05:36:39.4	92.0	259.7	1.1	135	6.2		
	e SS	T 05:53:38.8							
UBBA	e P	Z 05:36:43.3	92.9	260.4	1.6	100	6.0		
	e PP	Z 05:40:26.1							
	e SKSac	R 05:47:06.6							
NRDL	e SS	T 05:53:53.1							
	e P	Z 05:36:45.2	93.2	260.5	1.2	120	6.2		
	e pP	Z 05:37:21.9							

	e SKSac	R	05:47:07.5					
	e SS	T	05:53:56.4					
FUR	e P	Z	05:36:45.5	93.3	261.2	1.5	252	6.4
CLZ	e P	Z	05:36:45.4	93.3	260.7	1.7	178	6.2
	e SKSac	R	05:47:08.0					
	e SS	T	05:53:56.4					
GRFO	e P	Z	05:36:46.4	93.5	261.2	1.3	87	6.0
	e pP	Z	05:37:23.0					
	e SKSac	R	05:47:08.2					
GRA1	e P	Z	05:36:46.4	93.5	261.2	1.2	91	6.1
	e PP	Z	05:40:30.7					
	e SKSac	R	05:47:08.1					
	e SS	T	05:53:51.4					
	e PKKP	Z	05:53:54.8					
	e PKPPKPdf	Z	06:02:04.3					
BSEG	e P	Z	05:36:46.5	93.6	260.8	1.0	75	6.0
	e PP	Z	05:40:31.1					
	e SKSac	R	05:47:09.3					
MOX	e P	Z	05:36:48.1	93.9	261.6	1.7	122	6.0
	e pP	Z	05:37:24.4					
	e SKSac	R	05:47:10.2					
	e SS	T	05:54:04.7					
ROTZ	e P	Z	05:36:49.6	94.1	262.0	1.6	141	6.0
	e pP	Z	05:37:25.8					
	e SKSac	R	05:47:13.2					
WERD	e P	Z	05:36:50.1	94.3	262.1	1.8	138	6.0
	e PP	Z	05:40:37.2					
	e SKSac	R	05:47:13.2					
GUNZ	e P	Z	05:36:50.3	94.3	262.1	1.8	154	6.0
	e SKSac	R	05:47:13.8					
WERN	e P	Z	05:36:50.4	94.3	262.2	2.1	208	6.1
	e pP	Z	05:37:26.7					
	e PP	Z	05:40:36.9					
	e SKSac	R	05:47:14.8					
WET	e P	Z	05:36:50.9	94.5	262.5	1.5	121	6.0
	e SKSac	R	05:47:12.6					
	e SS	T	05:54:11.0					
CLL	e P	Z	05:36:52.3	94.8	262.7	0.9	50	5.9
	e SKSac	R	05:47:14.8					
	e SS	T	05:54:17.9					
GEC2	e P	Z	05:36:52.9	95.0	263.0	1.2	36	5.7
	e PP	Z	05:40:41.1					
	e SKSac	R	05:47:14.9					
	e SS	T	05:54:21.5					
FBE	e P	Z	05:36:53.7	95.0	263.0	1.4	87	6.0
	e PP	Z	05:40:41.4					
	e SKSac	R	05:47:17.0					
BRG	e P	Z	05:36:55.0	95.4	263.4	1.2	70	6.0
	e pP	Z	05:37:31.4					

	e SKSac	R	05:47:19.2							
	e SS	T	05:54:22.1							
RUE	e P	Z	05:36:54.9	95.4	263.4	0.8		64	6.1	
	e PP	Z	05:40:46.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/13	21:54:45.1	51.934N	177.368W	33.0N	5.4	5.6		SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 22:06:17.5	73.9	4.9	1.1	60	5.5		
IBBN	e P	Z 22:06:27.6	75.7	3.3					
CLZ	e P	Z 22:06:29.8	76.0	4.9	1.3	105	5.8		
CLL	e P	Z 22:06:31.0	76.4	6.6					
BUG	e P	Z 22:06:31.8	76.6	2.9					
BRG	e P	Z 22:06:33.0	76.7	7.1	1.1	35	5.4		
UBBA	e P	Z 22:06:35.2	77.1	4.7					
MOX	e P	Z 22:06:35.6	77.1	5.7	1.2	51	5.5		
TANN	e P	Z 22:06:36.8	77.3	6.2					
ROTZ	e P	Z 22:06:40.1	78.0	6.0	1.4	32	5.3		
GRA1	e P	Z 22:06:41.2	78.1	5.4	1.2	95	5.8		
	e PP	Z 22:09:37.4							
	e S	N 22:16:25.5							
	e SS	N 22:21:44.5							
	e L	Z 22:40:46.1			22.0	2865		5.6	
WLF	e P	Z 22:06:42.4	78.4	2.2					
WET	e P	Z 22:06:43.4	78.5	6.4	1.5	36	5.2		
GEC2	e P	Z 22:06:44.6	78.8	6.9	1.2	23	5.1		
STU	e P	Z 22:06:46.6	79.1	4.1	1.4	60	5.4		
BFO	e P	Z 22:06:48.7	79.6	3.6	1.4	36	5.1		
FUR	e P	Z 22:06:49.5	79.6	5.4	1.0	28	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/13								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:47:11.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/14	03:28:49.2	47.266N	153.743E	33.0N	5.0			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	03:40:43.5	77.8	25.0	0.9	10	5.0
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/14	08:07: 8.6	51.137N	169.092W	33.0N	5.0			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:19:10.6	79.2	0.2	0.7	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/14	10:34: 3.7			N				SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:37:39.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	04:15:42.3	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 04:27:41.4	78.6	25.8	0.7	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	04:37:11.4	17.764S	177.900W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 04:56:38.5	143.3	13.2					
IBBN	e PKPbc	Z 04:56:44.9	145.2	9.5					
CLZ	e PKPbc	Z 04:56:45.5	145.3	13.9					
CLL	e PKPbc	Z 04:56:45.1	145.4	18.5					
BRG	e PKPbc	Z 04:56:46.0	145.6	20.2					
BUG	e PKPbc	Z 04:56:47.4	146.1	8.8					
MOX	e PKPbc	Z 04:56:47.8	146.3	16.5					
TANN	e PKPbc	Z 04:56:48.3	146.3	18.0					
ROTZ	e PKPbc	Z 04:56:50.5	147.0	17.9					
GRA1	e PKPbc	Z 04:56:50.9	147.2	16.2					
WET	e PKPbc	Z 04:56:51.1	147.4	19.3					
GEC2	e PKPbc	Z 04:56:51.0	147.5	20.9					
WLF	e PKPbc	Z 04:56:53.4	147.9	7.3					

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STU	e	PKPbc	Z	04:56:54.0	148.5	13.0
FUR	e	PKPbc	Z	04:56:54.4	148.7	17.0
BFO	e	PKPbc	Z	04:56:55.3	149.0	11.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	09:27:40.2					5.5		NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKPdf	Z	09:47:00.1					
	e	SS	E	10:08:38.5					
	e	L	Z	10:54:53.9			21.3	965	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	11:12:6.2	12.368N	120.582E	33.0N	5.2			SZGRF

Mindoro, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z	11:25:14.9	92.6	67.3	1.0	10	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	11:24:26.0	1.977S	37.422E	33.0N	5.5			SZGRF

Kenya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z	11:33:53.7	54.8	150.5	1.3	74	5.6
FUR	e	P	Z	11:33:54.7	55.1	147.5			
WET	e	P	Z	11:33:56.8	55.3	149.7	2.6	166	5.6
	e	PcP	Z	11:34:57.1					
ROTZ	e	P	Z	11:34:02.4	56.1	149.1			
BFO	e	P	Z	11:34:03.8	56.3	144.3	2.0	88	5.5
STU	e	P	Z	11:34:04.1	56.3	145.4			
GRA1	e	P	Z	11:34:04.3	56.4	148.0	2.2	219	5.8
	e	PcP	Z	11:35:01.0					
BRG	e	P	Z	11:34:05.4	56.5	151.5	2.0	45	5.1
	e	PcP	Z	11:35:01.6					
TANN	e	P	Z	11:34:06.2	56.6	149.6			
	e	PcP	Z	11:35:02.0					
MOX	e	P	Z	11:34:09.2	57.1	148.8	1.8	74	5.4
	e	PcP	Z	11:35:03.7					
CLL	e	P	Z	11:34:10.0	57.2	150.6	1.6	44	5.2
UBBA	e	P	Z	11:34:14.1	57.7	147.0			
WLF	e	P	Z	11:34:17.4	58.2	142.4			

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CLZ	e P	Z	11:34:19.5	58.5	147.8				
BUG	e P	Z	11:34:24.8	59.2	144.2				
IBBN	e P	Z	11:34:28.8	59.8	145.1				
BSEG	e P	Z	11:34:32.0	60.3	148.4	1.8	123	5.6	
	e PcP	Z	11:35:16.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	13:08:13.6	53.778N	167.297W	12.5	6.0	6.0		SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 13:19:35.9	72.3	358.5	1.1	169	6.1		
IBBN	e P	Z 13:19:45.2	73.8	357.0					
CLZ	e P	Z 13:19:48.4	74.4	358.6					
BUG	e P	Z 13:19:49.7	74.7	356.7					
CLL	e P	Z 13:19:50.7	74.9	0.2	1.2	111	5.8		
BRG	e P	Z 13:19:53.2	75.3	0.8	1.2	121	5.9		
UBBA	e P	Z 13:19:53.7	75.4	358.4					
MOX	e P	Z 13:19:54.7	75.6	359.3	1.2	165	6.0		
TANN	e P	Z 13:19:55.9	75.8	359.9					
ROTZ	e P	Z 13:20:00.4	76.5	359.7					
GRA1	e P	Z 13:20:00.9	76.5	359.1	1.3	266	6.2		
	e pP	Z 13:20:04.4							
	e L	Z 14:00:58.9			19.4	7005		6.0	
WET	e P	Z 13:20:03.8	77.1	0.1	1.4	129	5.9		
GEC2	e P	Z 13:20:04.8	77.4	0.6	1.4	156	6.0		
STU	e P	Z 13:20:04.8	77.4	357.9					
BFO	e P	Z 13:20:07.4	77.8	357.4	1.3	143	5.9		
FUR	e P	Z 13:20:09.0	78.1	359.1	1.4	301	6.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	13:26:30.2	54.165N	166.954W	33.0N	6.0			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 13:37:50.5	71.9	358.3	1.4	152	5.9		
IBBN	e P	Z 13:37:59.6	73.4	356.8					
CLZ	e P	Z 13:38:02.9	74.0	358.4					
BUG	e P	Z 13:38:04.1	74.3	356.5					
CLL	e P	Z 13:38:05.2	74.5	360.0	2.1	282	5.9		
BRG	e P	Z 13:38:07.9	75.0	0.5	1.8	237	5.9		
UBBA	e P	Z 13:38:08.2	75.0	358.2					
MOX	e P	Z 13:38:09.4	75.2	359.1	1.6	214	6.0		
TANN	e P	Z 13:38:11.0	75.4	359.6					
ROTZ	e P	Z 13:38:14.8	76.1	359.5					

GRA1	e P	Z	13:38:15.3	76.1	358.9	1.7	386	6.3
WET	e P	Z	13:38:18.2	76.7	359.9	1.6	169	5.9
GEC2	e P	Z	13:38:19.6	77.0	0.4	1.7	194	6.0
STU	e P	Z	13:38:19.7	77.0	357.7			
BFO	e P	Z	13:38:22.0	77.4	357.2	1.6	173	5.9
FUR	e P	Z	13:38:23.5	77.7	358.9	1.7	434	6.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	13:35:58.7	52.318N	167.018W	33.0N	5.1			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:47:54.1	78.0	358.9	1.2	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	14:09:33.9	54.305N	168.113W	33.0N	4.9			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:20:53.7	71.8	359.0	1.2	27	5.3		
IBBN	e P	Z	14:21:02.6	73.3	357.5					
CLZ	e P	Z	14:21:06.0	73.8	359.1					
BUG	e P	Z	14:21:07.2	74.2	357.2					
CLL	e P	Z	14:21:08.6	74.4	0.7	0.9	8	4.8		
BRG	e P	Z	14:21:10.7	74.8	1.2	1.1	12	4.8		
MOX	e P	Z	14:21:12.5	75.1	359.8	1.0	14	4.9		
ROTZ	e P	Z	14:21:17.4	75.9	0.2					
GRA1	e P	Z	14:21:18.2	76.0	359.6	1.0	17	5.1		
WET	e P	Z	14:21:21.5	76.5	0.6	1.2	9	4.8		
GEC2	e P	Z	14:21:22.4	76.8	1.1	1.1	10	4.9		
STU	e P	Z	14:21:22.6	76.9	358.4					
BFO	e P	Z	14:21:25.6	77.3	357.9	1.2	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	17:02:12.1	59.268N	160.440W	33.0N	5.0			SZGRF

Southern Alaska, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:12:59.6	66.6	354.9	1.0	20	5.3		
IBBN	e P	Z	17:13:08.7	68.0	353.5					
CLZ	e P	Z	17:13:12.8	68.6	355.0					
BUG	e P	Z	17:13:13.4	68.8	353.3					
CLL	e P	Z	17:13:16.2	69.3	356.4	1.0	12	5.0		

UBBA	e P	Z	17:13:18.3	69.6	354.8				
BRG	e P	Z	17:13:19.3	69.8	356.9	1.1	12	5.0	
MOX	e P	Z	17:13:20.4	69.9	355.7	1.0	18	5.2	
TANN	e P	Z	17:13:21.9	70.2	356.2				
WLF	e P	Z	17:13:23.9	70.5	352.8				
ROTZ	e P	Z	17:13:25.8	70.8	356.0				
GRA1	e P	Z	17:13:25.9	70.8	355.5	1.2	26	5.2	
WET	e P	Z	17:13:29.7	71.5	356.4	1.3	12	4.9	
STU	e P	Z	17:13:30.6	71.6	354.4				
GEC2	e P	Z	17:13:31.2	71.8	356.9	1.0	8	4.8	
BFO	e P	Z	17:13:32.8	72.0	354.0	0.9	5	4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	17:27:44.8	54.448N	168.111W	33.0N	5.2			SZGRF
Fox Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:39:03.4	71.6	359.0	1.1	32	5.4		
IBBN	e P	Z	17:39:12.3	73.2	357.5					
CLZ	e P	Z	17:39:16.0	73.7	359.1					
BUG	e P	Z	17:39:17.4	74.0	357.2					
CLL	e P	Z	17:39:18.1	74.2	0.7	1.1	19	5.0		
BRG	e P	Z	17:39:20.5	74.7	1.2	1.1	22	5.1		
MOX	e P	Z	17:39:22.0	74.9	359.8	1.2	28	5.2		
TANN	e P	Z	17:39:23.6	75.1	0.3					
ROTZ	e P	Z	17:39:27.3	75.8	0.2					
GRA1	e P	Z	17:39:28.2	75.9	359.6	1.4	50	5.5		
WET	e P	Z	17:39:31.2	76.4	0.6	1.3	19	5.1		
GEC2	e P	Z	17:39:32.5	76.7	1.1	1.1	20	5.1		
STU	e P	Z	17:39:32.5	76.8	358.4					
BFO	e P	Z	17:39:34.9	77.2	357.9	1.2	25	5.2		
FUR	e P	Z	17:39:36.8	77.4	359.6	1.0	37	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	17:58: 8.0	6.800S	155.800E	65.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	18:17:02.6	125.3	43.6					
BRG	e PKPdf	Z	18:17:03.7	125.8	49.1					
CLL	e PKPdf	Z	18:17:03.7	125.9	47.9					
CLZ	e PKPdf	Z	18:17:05.8	126.7	44.7					
TANN	e PKPdf	Z	18:17:05.6	126.8	47.8					
MOX	e PKPdf	Z	18:17:06.1	127.0	46.7					
GEC2	e PKPdf	Z	18:17:06.4	127.2	50.0					

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ROTZ	e	PKPdf	Z	18:17:06.4	127.3	47.8
WET	e	PKPdf	Z	18:17:06.8	127.4	48.9
IBBN	e	PKPdf	Z	18:17:07.2	127.5	41.5
UBBA	e	PKPdf	Z	18:17:07.0	127.6	44.8
GRA1	e	PKPdf	Z	18:17:08.0	127.9	46.8
	e	PKP	Z	18:17:21.8		
FUR	e	PKPdf	Z	18:17:09.7	128.9	47.7
STU	e	PKPdf	Z	18:17:10.5	129.5	45.1
BFO	e	PKPdf	Z	18:17:11.2	130.2	44.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	20:42:23.5	0.988S	37.323E	33.0N	5.4			SZGRF

Kenya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:51:43.9	53.9	150.3	1.4	97	5.6		
FUR	e P	Z	20:51:45.6	54.1	147.2	1.5	68	5.5		
WET	e P	Z	20:51:47.5	54.4	149.4	1.3	29	5.2		
ROTZ	e P	Z	20:51:53.3	55.1	148.9	1.5	62	5.4		
BFO	e P	Z	20:51:54.4	55.4	143.9	1.5	40	5.2		
GRA1	e P	Z	20:51:54.9	55.4	147.7	1.3	51	5.4		
BRG	e P	Z	20:51:55.8	55.5	151.2	1.8	36	5.1		
TANN	e P	Z	20:51:56.9	55.6	149.4	2.1	118	5.6		
MOX	e P	Z	20:51:59.9	56.1	148.5	1.6	60	5.4		
CLL	e P	Z	20:52:00.5	56.2	150.3	1.4	35	5.2		
UBBA	e P	Z	20:52:04.8	56.8	146.7					
CLZ	e P	Z	20:52:10.2	57.5	147.5					
BUG	e P	Z	20:52:15.7	58.3	143.9					
IBBN	e P	Z	20:52:19.6	58.8	144.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	20:41:28.2	48.942N	151.301E	33.0N	5.5			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:52:49.1	72.0	25.8	1.0	34	5.4		
CLL	e P	Z	20:52:58.5	73.6	27.1	0.9	60	5.6		
BRG	e P	Z	20:52:59.2	73.7	27.6	0.9	14	5.0		
CLZ	e P	Z	20:53:00.1	73.9	25.5	1.1	61	5.5		
IBBN	e P	Z	20:53:01.5	74.1	23.9	1.2	65	5.5		
TANN	e P	Z	20:53:04.1	74.6	26.6	1.1	18	5.0		
MOX	e P	Z	20:53:03.9	74.6	26.2	1.0	38	5.4		
UBBA	e P	Z	20:53:05.8	74.9	25.2	1.7	55	5.3		
BUG	e P	Z	20:53:06.8	75.0	23.5	1.1	62	5.5		
ROTZ	e P	Z	20:53:08.3	75.2	26.4	1.0	36	5.5		

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GRA1	e P	Z	20:53:10.0	75.6	25.8	0.9	91	5.9
WET	e P	Z	20:53:09.8	75.6	26.7	1.0	47	5.6
GEC2	e P	Z	20:53:10.0	75.6	27.2	0.8	19	5.3
FUR	e P	Z	20:53:17.6	76.9	25.7	0.9	57	5.7
STU	e P	Z	20:53:17.8	77.0	24.5			
BFO	e P	Z	20:53:21.2	77.6	23.9	1.0	49	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/15	23:34:33.4	23.135S	172.047E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	23:54:10.3	146.3	31.3					
BRG	e PKPbc	Z	23:54:13.3	147.5	39.6					
CLL	e PKPbc	Z	23:54:13.0	147.5	37.8					
CLZ	e PKPbc	Z	23:54:15.3	148.0	33.1					
TANN	e PKPbc	Z	23:54:16.1	148.4	37.8					
IBBN	e PKPbc	Z	23:54:15.9	148.4	28.4					
MOX	e PKPbc	Z	23:54:16.3	148.6	36.2					
UBBA	e PKPbc	Z	23:54:17.6	149.0	33.4					
ROTZ	e PKPbc	Z	23:54:17.6	149.0	38.0					
GEC2	e PKPbc	Z	23:54:17.2	149.1	41.4					
WET	e PKPbc	Z	23:54:18.0	149.2	39.8					
BUG	e PKPbc	Z	23:54:18.5	149.4	28.3					
GRA1	e PKPbc	Z	23:54:19.1	149.5	36.5					
FUR	e PKPbc	Z	23:54:21.6	150.7	38.2					
STU	e PKPbc	Z	23:54:22.7	151.0	34.0					
BFO	e PKPbc	Z	23:54:24.1	151.7	32.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/16	01:13:22.0	37.830N	140.390E	33.0N	6.7	7.0		SZGRF
Eastern Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	01:25:14.4	77.1	40.3	1.9	1608	6.8		
RUE	e P	Z	01:25:22.0	78.5	40.3	2.1	1788	6.7		
BSEG	e P	Z	01:25:23.3	78.7	38.1	1.9	1633	6.7		
BRG	e P	Z	01:25:28.1	79.6	40.2	2.8	2415	6.6		
CLL	e P	Z	01:25:28.0	79.7	39.6	2.3	1891	6.6		
FBE	e P	Z	01:25:30.2	79.9	39.8	2.2	2335	6.7		
TANN	e P	Z	01:25:33.5	80.6	39.2	2.1	883	6.4		
WERD	e P	Z	01:25:33.6	80.6	39.1					
GUNZ	e P	Z	01:25:34.0	80.7	39.1					
WERN	e P	Z	01:25:34.2	80.7	39.1					
MOX	e P	Z	01:25:34.2	80.8	38.6	2.2	1438	6.6		

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IBBN	e P	Z	01:25:35.0	80.9	36.1					
WET	e P	Z	01:25:37.9	81.4	39.3	2.3	1510	6.7		
GRA1	e P	Z	01:25:39.4	81.7	38.2	2.1	2976	7.1		
	e PP	Z	01:28:46.7							
	e S	E	01:35:53.9							
	e SS	N	01:40:59.4							
	e L	Z	02:06:07.6			18.3	60347		7.0	
BUG	e P	Z	01:25:39.5	81.8	35.6	2.0	1066	6.6		
FUR	e P	Z	01:25:45.2	82.8	38.1	2.3	3513	7.2		
STU	e P	Z	01:25:47.0	83.2	36.8					
WLF	e P	Z	01:25:49.8	83.6	34.7					
BFO	e P	Z	01:25:50.5	83.9	36.1	1.9	1727	6.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/16 06:37:44.9 38.069N 139.533E 33.0N 5.7 5.3
 Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:49:41.0	78.1	38.6	1.3	97	5.8		
BRG	e P	Z	06:49:45.8	79.1	40.7	0.9	43	5.5		
CLL	e P	Z	06:49:45.8	79.1	40.1	0.9	65	5.7		
CLZ	e P	Z	06:49:49.9	79.8	38.3	1.2	98	5.6		
TANN	e P	Z	06:49:51.2	80.0	39.6	1.2	32	5.1		
MOX	e P	Z	06:49:52.0	80.2	39.1	1.0	43	5.4		
IBBN	e P	Z	06:49:52.7	80.4	36.5	0.9	85	5.8		
ROTZ	e P	Z	06:49:54.8	80.7	39.4	1.7	142	5.7		
UBBA	e P	Z	06:49:54.5	80.7	38.0	1.0	29	5.2		
GEC2	e P	Z	06:49:54.5	80.7	40.3	0.9	30	5.4		
WET	e P	Z	06:49:55.6	80.9	39.8	1.1	48	5.4		
GRA1	e P	Z	06:49:57.3	81.1	38.7	1.5	231	6.0		
	e S	E	07:00:08.2							
	e SS	N	07:05:22.5							
	e L	Z	07:25:22.1			18.1	1218		5.3	
BUG	e P	Z	06:49:57.3	81.2	36.1	1.5	102	5.7		
FUR	e P	Z	06:50:03.0	82.3	38.6	0.9	108	6.1		
STU	e P	Z	06:50:04.8	82.7	37.2	0.9	90	6.0		
WLF	e P	Z	06:50:07.6	83.1	35.2	1.6	147	6.0		
BFO	e P	Z	06:50:08.3	83.3	36.6	1.6	251	6.2		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/16 14:17:37.2 37.350N 136.330E 355.1 6.7
 Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:28:56.4	77.6	41.2	1.2	815	6.6		

	e pP	Z	14:30:17.3								
	e sP	Z	14:30:56.5								
	e PP	Z	14:31:57.0								
BRG	e P	Z	14:29:00.2	78.3	43.3	2.3	2313	6.7			
CLL	e P	Z	14:29:00.4	78.4	42.7	0.9	1175	6.8			
NRDL	e P	Z	14:29:02.5	78.7	40.8	1.4	541	6.3			
CLZ	e P	Z	14:29:04.9	79.1	40.9	1.1	1021	6.8			
TANN	e P	Z	14:29:05.6	79.3	42.2	1.8	754	6.4			
MOX	e P	Z	14:29:06.5	79.5	41.6	1.3	540	6.4			
IBBN	e P	Z	14:29:08.0	79.8	39.2	0.9	1085	7.0			
ROTZ	e P	Z	14:29:09.2	79.9	41.9	1.6	1090	6.7			
GEC2	e P	Z	14:29:08.5	79.9	42.8	1.1	315	6.4			
UBBA	e P	Z	14:29:09.3	80.1	40.6						
WET	e P	Z	14:29:09.7	80.1	42.3	2.0	1357	6.7			
GRA1	e P	Z	14:29:11.7	80.4	41.3	0.9	884	6.9			
	e pP	Z	14:30:32.4								
	e sP	Z	14:31:11.9								
	e PP	Z	14:32:21.0								
	e S	N	14:38:50.5								
BUG	e P	Z	14:29:12.5	80.7	38.7	1.3	807	6.7			
FUR	e P	Z	14:29:17.2	81.5	41.1	1.1	963	7.0			
STU	e P	Z	14:29:19.4	82.0	39.8	1.0	760	6.9			
WLF	e P	Z	14:29:22.5	82.5	37.8	1.1	490	6.6			
BFO	e P	Z	14:29:22.8	82.7	39.2						

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/16

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 14:47:49.6

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/16 14:39: 4.5 N SZGRF
Near west coast of eastern Honshu, Japan

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
BFO e PKPbc Z 14:58:32.5
BRG e PKPbc Z 14:58:49.5
BSEG e PKPbc Z 14:58:50.0
BUG e PKPbc Z 14:58:37.8
FUR e PKPbc Z 14:58:36.9
GEC2 e PKPbc Z 14:58:44.2
GRA1 e PKPbc Z 14:58:40.4
IBBN e PKPbc Z 14:58:40.6
ROTZ e PKPbc Z 14:58:43.5

STU	e	PKPbc	Z	14:58:35.2
TANN	e	PKPbc	Z	14:58:46.0
UBBA	e	PKPbc	Z	14:58:41.5
WET	e	PKPbc	Z	14:58:43.2
WLF	e	PKPbc	Z	14:58:31.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 20:20:37.0							
BRG	e PKP	Z 20:20:20.9							
CLL	e PKP	Z 20:20:20.7							
CLZ	e PKP	Z 20:20:23.1							
FUR	e PKP	Z 20:20:32.5							
GEC2	e PKP	Z 20:20:26.1							
GRA1	e PKP	Z 20:20:28.3							
MOX	e PKP	Z 20:20:24.5							
ROTZ	e PKP	Z 20:20:26.6							
TANN	e PKP	Z 20:20:24.1							
UBBA	e PKP	Z 20:20:26.3							
WET	e PKP	Z 20:20:26.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 20:42:51.7							
BRG	e PKP	Z 20:42:35.3							
CLL	e PKP	Z 20:42:35.3							
CLZ	e PKP	Z 20:42:37.8							
GEC2	e PKP	Z 20:42:40.8							
MOX	e PKP	Z 20:42:39.5							
ROTZ	e PKP	Z 20:42:41.1							
TANN	e PKP	Z 20:42:38.9							
UBBA	e PKP	Z 20:42:40.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/16	22:58:27.6	7.520N	71.370W	33.0N	5.5	4.5		SZGRF
Venezuela								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 23:10:13.5	76.2	265.4	1.1	112	5.9		

BUG	e P	Z	23:10:17.9	77.1	265.8	1.4	101	5.8			
IBBN	e P	Z	23:10:20.0	77.4	266.0	1.4	128	5.9			
BFO	e P	Z	23:10:20.3	77.5	267.3	1.0	33	5.4			
STU	e P	Z	23:10:23.8	78.1	267.9	0.9	86	5.9			
UBBA	e P	Z	23:10:27.4	78.7	268.1	1.6	49	5.3			
NRDL	e P	Z	23:10:28.3	78.9	267.8	1.2	56	5.5			
CLZ	e P	Z	23:10:28.9	79.0	268.2	0.9	47	5.5			
BSEG	e P	Z	23:10:28.8	79.0	267.7	1.1	63	5.6			
GRA1	e P	Z	23:10:31.6	79.5	269.3	1.6	70	5.3			
	e L	Z	23:44:34.1			20.6	221			4.5	
FUR	e P	Z	23:10:31.7	79.5	269.6	1.8	124	5.5			
MOX	e P	Z	23:10:32.8	79.7	269.4	1.6	49	5.2			
ROTZ	e P	Z	23:10:35.3	80.1	270.0						
TANN	e P	Z	23:10:36.0	80.3	270.1						
WET	e P	Z	23:10:37.5	80.6	270.6	1.5	64	5.4			
CLL	e P	Z	23:10:37.5	80.6	270.3	1.5	65	5.4			
GEC2	e P	Z	23:10:40.1	81.1	271.3	1.0	51	5.5			
BRG	e P	Z	23:10:40.7	81.2	271.1	1.0	33	5.3			

Date
2007/07/16

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:55:21.9							

Date
2007/07/17

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:59:20.9							
	e PKPbc	Z 09:59:47.1							

Date
2007/07/17
Kenya

Origin Time
14:10:46.1

Lat
1.977S

Long
37.422E

Depth
15.1

mb
6.0

Ms
5.2

ML

Source
SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 14:20:13.8	54.8	150.5	2.6	1029	6.4		
FUR	e P	Z 14:20:14.7	55.1	147.5	2.2	634	6.3		
WET	e P	Z 14:20:16.9	55.3	149.7	1.9	192	5.8		
ROTZ	e P	Z 14:20:22.5	56.1	149.1					
BFO	e P	Z 14:20:23.9	56.3	144.3	1.8	268	6.0		
STU	e P	Z 14:20:24.2	56.3	145.4					

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GRA1	e P	Z	14:20:24.4	56.4	148.0	2.0	486	6.2		
	e pP	Z	14:20:28.6							
	e S	N	14:28:17.5							
	e L	Z	14:46:37.4			19.9	1782	5.2		
BRG	e P	Z	14:20:25.5	56.5	151.5	2.1	168	5.7		
TANN	e P	Z	14:20:26.2	56.6	149.6					
MOX	e P	Z	14:20:29.3	57.1	148.8	2.3	362	6.0		
CLL	e P	Z	14:20:30.1	57.2	150.6	1.8	156	5.7		
UBBA	e P	Z	14:20:34.2	57.7	147.0					
WLF	e P	Z	14:20:37.5	58.2	142.4					
CLZ	e P	Z	14:20:39.6	58.5	147.8	2.1	216	5.8		
BUG	e P	Z	14:20:44.9	59.2	144.2	1.9	361	6.1		
IBBN	e P	Z	14:20:48.9	59.8	145.1					
BSEG	e P	Z	14:20:52.1	60.3	148.4	1.9	363	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/17	18:23:24.3	40.265N	21.761E	10.0G		4.7		SZGRF

Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	18:25:50.3	10.3	143.3					
WET	e Pn	Z	18:25:55.8	10.9	141.4					
FUR	e Sn	N	18:27:58.5	10.9	132.6					
BRG	e Pn	Z	18:26:13.1	11.9	149.8					
GRA1	e Pn	Z	18:26:13.0	12.0	137.8					
	e L	Z	18:31:17.8			10.1	4001		4.7	
TANN	e Pn	Z	18:26:13.6	12.1	143.8					
STU	e Pn	Z	18:26:16.2	12.3	128.9					
	e Sn	E	18:28:26.4							
BFO	e Pn	Z	18:26:17.2	12.5	125.1					
MOX	e Pn	Z	18:26:21.6	12.6	141.8					
CLL	e Pn	Z	18:26:22.3	12.6	147.8					
WLF	e Pn	Z	18:26:52.6	14.5	124.6					
BUG	e Pn	Z	18:26:58.2	15.0	132.5					
BSEG	e Pn	Z	18:27:03.2	15.7	146.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/17	18:27:36.2	4.736S	37.517E	33.0N	4.9			SZGRF

Tanzania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:37:33.0	59.0	149.0	0.9	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	00:07:39.4	27.030S	178.460W	33.0N		6.0		SZGRF

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SS	T	00:50:29.3	151.2	22.2					
BSEG	e PKPdf	Z	00:27:22.9	152.3	17.0					
	e SS	T	00:50:41.1							
RUE	e PKPdf	Z	00:27:24.2	153.0	24.5					
	e PP	Z	00:31:18.5							
	e SS	T	00:50:47.0							
NRDL	e PKPdf	Z	00:27:24.7	153.7	17.5					
	e PP	Z	00:31:24.1							
	e SS	T	00:50:57.0							
CLL	e PKPdf	Z	00:27:25.3	154.2	24.0					
	e PP	Z	00:31:25.7							
	e SS	T	00:50:58.2							
IBBN	e PKPdf	Z	00:27:25.3	154.3	12.9					
CLZ	e PKPdf	Z	00:27:25.8	154.3	18.4					
	e PP	Z	00:31:26.5							
	e SS	T	00:51:02.9							
BRG	e PKPdf	Z	00:27:25.7	154.4	26.2					
	e PKPab	Z	00:27:51.9							
	e PP	Z	00:31:26.9							
	e SS	T	00:50:59.6							
FBE	e PKPdf	Z	00:27:27.1	154.5	25.0					
	e PKPab	Z	00:27:53.8							
MOX	e PKPdf	Z	00:27:26.6	155.2	21.8					
	e PKPab	Z	00:27:55.4							
	e SS	T	00:51:09.5							
TANN	e PKPdf	Z	00:27:26.9	155.2	23.7					
	e PKPab	Z	00:27:56.0							
	e SS	T	00:51:11.0							
WERD	e PKPdf	Z	00:27:26.6	155.2	23.4					
	e PKPab	Z	00:27:55.8							
BUG	e PKPdf	Z	00:27:26.3	155.2	12.2					
	e PKPab	Z	00:27:55.0							
	e SS	T	00:51:19.8							
GUNZ	e PKPdf	Z	00:27:27.0	155.3	23.5					
	e PKPab	Z	00:27:56.2							
WERN	e PKPdf	Z	00:27:27.5	155.3	23.6					
	e PKPab	Z	00:27:56.6							
UBBA	e PKPdf	Z	00:27:26.7	155.4	18.3					
	e PP	Z	00:31:31.7							
	e SS	T	00:51:12.7							
ROTZ	e PKPdf	Z	00:27:27.9	155.8	23.7					
	e PKPab	Z	00:27:59.2							
	e PP	Z	00:31:35.1							
	e SS	T	00:51:19.7							

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GRA1	e PKPdf	Z	00:27:28.4	156.1	21.7				
	e PKPab	Z	00:27:59.4						
	e PP	Z	00:31:37.0						
	e SS	T	00:51:22.1						
	e SSS	T	00:57:19.4						
	e L	Z	01:38:25.7			22.0	2729	6.0	
GRFO	e PP	Z	00:31:37.0	156.1	21.7				
	e SS	T	00:51:22.2						
WET	e PKPdf	Z	00:27:28.3	156.2	25.7				
	e PKPab	Z	00:28:00.6						
	e SS	T	00:51:23.2						
GEC2	e PKPdf	Z	00:27:28.1	156.2	27.8				
	e PKPab	Z	00:28:00.6						
	e SS	T	00:51:23.6						
WLF	e PKPdf	Z	00:27:29.3	157.1	10.6				
	e PKPab	Z	00:28:03.6						
	e SS	T	00:51:28.5						
STU	e PKPdf	Z	00:27:29.8	157.5	18.0				
	e PKPab	Z	00:28:04.7						
	e SS	T	00:51:37.0						
FUR	e PKPdf	Z	00:27:29.6	157.5	23.2				
	e PKPab	Z	00:28:06.3						
	e SS	T	00:51:39.7						
BFO	e PKPab	Z	00:28:07.2	158.1	16.4				
	e SS	T	00:51:44.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	01:22: 7.1	46.266N	153.421E	33.0N	4.9			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	01:33:54.4	76.7	26.9	0.8	9	5.0		
BRG	e P	Z	01:33:55.4	76.8	27.5					
TANN	e P	Z	01:34:00.3	77.6	26.5	2.0	20	4.9		
WERD	e P	Z	01:34:00.4	77.6	26.4					
WERN	e P	Z	01:34:01.2	77.7	26.4	0.8	8	4.9		
ROTZ	e P	Z	01:34:04.1	78.3	26.3	1.1	10	4.8		
GRA1	e P	Z	01:34:05.9	78.6	25.6	1.4	27	5.1		
WET	e P	Z	01:34:05.9	78.6	26.6					
GEC2	e P	Z	01:34:05.5	78.6	27.1	0.8	6	4.6		
FUR	e P	Z	01:34:13.2	80.0	25.5	1.5	35	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	04:27:30.2	5.730N	84.110E	62.6	5.3			SZGRF
North Indian Ocean								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:38:51.7	72.9	101.2	1.7	67	5.5		
	e pP	Z	04:39:09.3							
BRG	e P	Z	04:38:53.6	73.1	102.0	0.9	20	5.2		
WET	e P	Z	04:38:55.2	73.4	100.6	1.0	32	5.4		
RUE	e P	Z	04:38:55.5	73.5	102.3	0.8	60	5.7		
CLL	e P	Z	04:38:57.0	73.8	101.4	1.2	35	5.3		
	e pP	Z	04:39:14.6							
TANN	e P	Z	04:38:58.1	73.9	100.7	1.5	23	5.0		
WERN	e P	Z	04:38:58.7	74.0	100.6	1.7	32	5.1		
ROTZ	e P	Z	04:38:58.9	74.0	100.3	1.7	48	5.2		
GUNZ	e P	Z	04:38:58.9	74.0	100.5	1.5	36	5.2		
	e pP	Z	04:39:15.8							
WERD	e P	Z	04:38:58.9	74.0	100.5	1.5	29	5.1		
	e pP	Z	04:39:15.9							
FUR	e P	Z	04:38:59.6	74.3	99.1	0.6	30	5.5		
MOX	e P	Z	04:39:01.7	74.5	100.0	1.4	41	5.3		
GRA1	e P	Z	04:39:02.6	74.6	99.5	1.4	92	5.6		
CLZ	e P	Z	04:39:07.0	75.5	99.4	0.9	28	5.3		
	e pP	Z	04:39:24.3							
UBBA	e P	Z	04:39:07.8	75.6	98.8					
NRDL	e P	Z	04:39:08.5	75.7	99.3	1.1	21	5.2		
STU	e P	Z	04:39:08.4	75.8	97.6	1.1	37	5.4		
BSEG	e P	Z	04:39:09.0	75.9	99.8	1.0	22	5.2		
BFO	e P	Z	04:39:11.4	76.3	96.9	0.9	22	5.3		
IBBN	e P	Z	04:39:16.6	77.1	97.4	0.8	24	5.4		
BUG	e P	Z	04:39:17.7	77.3	96.8	1.7	46	5.3		
WLF	e P	Z	04:39:21.2	77.8	95.5	1.3	44	5.4		
	e pP	Z	04:39:37.9							

Date 2007/07/18
Origin Time 10:54:14.3
Adriatic Sea

Lat 43.807N
Long 15.294E
Depth 10.0G

mb 4.6
Ms
ML 4.6
Source SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	10:55:31.1	5.2	167.1					4.6
	e Sn	T	10:56:28.1							
FUR	e Pn	Z	10:55:31.5	5.2	145.9					
	e Sn	T	10:56:30.8							
WET	e Pn	Z	10:55:36.7	5.6	161.8					
	e Sn	R	10:56:38.4							
ROTZ	e Pn	Z	10:55:46.3	6.3	159.3					
	e Sn	R	10:56:54.9							
STU	e Pn	Z	10:55:49.0	6.5	137.4					
	e Sn	R	10:57:00.8							
GRA1	e Pn	Z	10:55:48.1	6.5	153.1					

BFO	e Pn	Z	10:55:50.4	6.6	130.6
	e Sn	R	10:57:02.6		
WERN	e Pn	Z	10:55:52.6	6.8	161.9
GUNZ	e Pn	Z	10:55:53.5	6.9	161.8
TANN	e Pn	Z	10:55:53.9	6.9	162.7
	e Sn	Z	10:57:08.7		
WERD	e Pn	Z	10:55:54.7	6.9	161.9
BRG	e Pn	Z	10:55:57.2	7.1	172.1
MOX	e Pn	Z	10:55:59.0	7.3	158.6
	e Sn	R	10:57:18.0		
CLL	e Pn	Z	10:56:04.3	7.7	167.5
UBBA	e Pn	Z	10:56:07.7	7.9	150.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	14:32:58.9	43.636N	15.388E	10.0G			3.3	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Sn	E	14:35:15.7	5.3	166.8					3.3
WET	e Pn	Z	14:34:24.1	5.8	161.6					
	e Sn	N	14:35:25.0							
ROTZ	e Pn	Z	14:34:33.2	6.5	159.2					
	e Sn	N	14:35:41.5							
BFO	e Pn	Z	14:34:37.7	6.8	131.2					
	e Sn	N	14:35:49.6							
WERN	e Pn	Z	14:34:39.6	7.0	161.7					
TANN	e Pn	Z	14:34:40.9	7.1	162.5					
MOX	e Pn	Z	14:34:46.2	7.5	158.5					
	e Sn	N	14:36:06.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	17:25:57.3	2.345S	36.454E	33.0N	5.1	4.2		SZGRF

Tanzania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:35:23.3	54.9	151.8	1.8	51	5.3		
WET	e P	Z	17:35:26.3	55.4	150.9	1.2	10	4.7		
ROTZ	e P	Z	17:35:32.7	56.1	150.4	2.9	103	5.4		
BFO	e P	Z	17:35:34.6	56.3	145.5	2.6	83	5.3		
GRA1	e P	Z	17:35:35.8	56.4	149.2	1.4	16	4.9		
	e PcP	Z	17:36:35.3							
	e S	R	17:43:26.3							
	e L	Z	18:01:43.6			18.6	204		4.2	
WERN	e P	Z	17:35:36.8	56.5	150.7	2.3	46	5.1		
BRG	e P	Z	17:35:37.0	56.6	152.7	2.1	32	5.0		

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GUNZ	e P	Z	17:35:37.0	56.6	150.7	2.2	68	5.3
TANN	e P	Z	17:35:36.6	56.6	150.9	2.4	69	5.3
WERD	e P	Z	17:35:37.7	56.7	150.7	2.1	49	5.2
MOX	e P	Z	17:35:40.9	57.1	150.0	1.6	16	4.8
CLL	e P	Z	17:35:42.0	57.2	151.8	2.1	36	5.0
UBBA	e P	Z	17:35:46.5	57.8	148.3	1.9	23	4.9
WLF	e P	Z	17:35:50.3	58.2	143.6	1.6	30	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	18:00:38.7	29.988N	139.726E	33.0G	5.4			SZGRF
Southeast of Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	18:13:05.3	83.7	44.5	1.8	223	6.1		
RUE	e P	Z	18:13:11.2	85.0	44.7	0.8	58	5.9		
BSEG	e P	Z	18:13:13.0	85.4	42.2	0.9	25	5.4		
BRG	e P	Z	18:13:16.2	86.1	44.8	0.8	24	5.4		
CLL	e P	Z	18:13:16.5	86.2	44.1	0.9	29	5.4		
CLZ	e P	Z	18:13:20.5	86.9	42.1	0.8	13	5.1		
TANN	e P	Z	18:13:21.1	87.1	43.6	1.5	20	5.0		
WERD	e P	Z	18:13:21.1	87.1	43.5	0.8	9	4.9		
GUNZ	e P	Z	18:13:21.5	87.2	43.5	0.9	19	5.2		
WERN	e P	Z	18:13:21.7	87.2	43.6	0.8	16	5.2		
MOX	e P	Z	18:13:21.9	87.3	43.0	2.0	41	5.4		
IBBN	e P	Z	18:13:23.6	87.6	40.1	1.2	42	5.6		
GEC2	e P	Z	18:13:23.4	87.6	44.5	0.8	12	5.3		
ROTZ	e P	Z	18:13:24.1	87.7	43.4	1.2	20	5.3		
WET	e P	Z	18:13:24.6	87.8	43.9	1.1	11	5.1		
UBBA	e P	Z	18:13:24.6	87.8	41.8	1.8	32	5.4		
GRA1	e P	Z	18:13:26.5	88.1	42.7	1.3	35	5.5		
BUG	e P	Z	18:13:27.4	88.5	39.7	1.2	22	5.3		
FUR	e P	Z	18:13:31.5	89.2	42.7	0.8	58	5.9		
STU	e P	Z	18:13:33.5	89.7	41.2	0.9	22	5.4		
WLF	e P	Z	18:13:36.6	90.3	38.9	1.0	15	5.3		
BFO	e P	Z	18:13:36.6	90.4	40.5	0.8	25	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/18	18:47:57.0	10.833N	125.085E	33.0N	5.1			SZGRF
Leyte, Philippine Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:01:14.2	94.5	66.8	1.5	8	4.9		
CLL	e P	Z	19:01:15.7	94.8	66.0	1.2	6	4.9		
BSEG	e P	Z	19:01:17.7	95.2	63.6	0.9	6	5.1		
GEC2	e P	Z	19:01:18.5	95.4	66.7	1.0	5	5.0		

TANN	e P	Z	19:01:18.9	95.5	65.6	1.4	7	5.0
WERD	e P	Z	19:01:19.4	95.6	65.5	1.1	4	4.8
GUNZ	e P	Z	19:01:19.6	95.6	65.5	1.5	16	5.3
WERN	e P	Z	19:01:20.0	95.6	65.6	1.3	6	4.9
MOX	e P	Z	19:01:20.9	95.9	64.9	1.5	8	5.0
ROTZ	e P	Z	19:01:20.9	95.9	65.5	1.5	10	5.1
CLZ	e P	Z	19:01:21.2	96.1	63.8	1.4	17	5.4
GRA1	e P	Z	19:01:23.5	96.5	64.7	1.8	24	5.5
BUG	e P	Z	19:01:29.9	98.0	61.3	1.5	19	5.6
BFO	e P	Z	19:01:33.2	98.8	62.6	1.6	12	5.4

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/18 19:37:31.5 6.000S 104.400E 30.0 5.1 NEIC
 Sunda Strait, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:50:51.6	94.9	93.4	1.6	10	5.0		
	e PP	Z	19:54:40.1							
GEC2	e P	Z	19:50:51.4	95.0	93.4	1.7	16	5.2		
	e PP	Z	19:54:40.6							
WET	e P	Z	19:50:53.9	95.5	92.8	1.6	16	5.2		
	e PP	Z	19:54:44.9							
CLL	e P	Z	19:50:53.5	95.6	92.7	1.3	7	5.0		
TANN	e PP	Z	19:54:47.4	95.9	92.3					
WERN	e P	Z	19:50:55.6	95.9	92.3	1.5	10	5.1		
	e PP	Z	19:54:47.8							
GUNZ	e P	Z	19:50:55.9	95.9	92.2	1.0	6	5.0		
	e PP	Z	19:54:48.0							
WERD	e P	Z	19:50:55.9	96.0	92.2	1.2	6	5.0		
	e PP	Z	19:54:48.2							
ROTZ	e P	Z	19:50:56.6	96.0	92.2	1.7	13	5.2		
	e PP	Z	19:54:48.5							
MOX	e PP	Z	19:54:51.6	96.4	91.7					
GRA1	e P	Z	19:50:59.2	96.6	91.5	0.9	5	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/18 22:05:58.9 71.805N 1.771W 33.0N 3.9 SZGRF
 Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:11:00.2	22.9	349.6	0.9	4	3.9		

Date Origin Time Lat Long Depth mb Ms ML Source

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2007/07/18 23:51:42.8 26.100S 177.600W 10.0 5.6 NEIC
South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 00:11:38.8	155.4	19.4					
	e PKPab	Z 00:11:59.5							
	e SS	T 00:35:25.8							
	e L	Z 01:21:29.2			22.0	918		5.6	

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/19 02:14:4.5 4.369S 35.762E 33.0N 4.3
Tanzania SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:23:54.9	58.1	150.8	1.0	3	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/19 08:19:23.1 60.220N 145.490E 33.0N 4.9 3.9
Eastern Siberia, Russia SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 08:29:43.2	62.1	24.5	1.0	15	5.2		
BRG	e P	Z 08:29:44.3	62.3	24.8	1.0	4	4.5		
CLZ	e P	Z 08:29:44.8	62.3	23.3	0.9	15	5.1		
IBBN	e P	Z 08:29:45.7	62.5	22.1					
TANN	e P	Z 08:29:49.3	63.1	24.0	1.5	10	4.7		
MOX	e P	Z 08:29:49.6	63.1	23.7	0.9	8	4.8		
ROTZ	e P	Z 08:29:54.1	63.7	23.8	1.6	12	4.9		
GRA1	e P	Z 08:29:56.3	64.0	23.3	0.8	14	5.3		
	e L	Z 09:08:53.7			19.8	72		3.9	
WET	e P	Z 08:29:56.7	64.1	24.0	0.7	7	5.0		
GEC2	e P	Z 08:29:56.8	64.2	24.3	0.7	4	4.8		
BFO	e P	Z 08:30:06.0	66.0	21.7	1.4	10	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/19 16:51:42.2 18.936S 176.316W 33.0N
Fiji Islands region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 17:11:14.2	144.6	10.9					
CLZ	e PKPbc	Z 17:11:20.2	146.7	11.6					
CLL	e PKPbc	Z 17:11:20.1	146.8	16.2					
BRG	e PKPbc	Z 17:11:21.4	147.0	18.0					

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BUG	e	PKPbc	Z	17:11:22.2	147.4	6.3
MOX	e	PKPbc	Z	17:11:23.0	147.7	14.1
UBBA	e	PKPbc	Z	17:11:23.3	147.7	11.2
WERD	e	PKPbc	Z	17:11:23.3	147.7	15.4
TANN	e	PKPbc	Z	17:11:23.4	147.8	15.7
GUNZ	e	PKPbc	Z	17:11:23.7	147.8	15.5
WERN	e	PKPbc	Z	17:11:23.9	147.9	15.6
ROTZ	e	PKPbc	Z	17:11:25.3	148.4	15.5
GRA1	e	PKPbc	Z	17:11:25.6	148.7	13.8
WET	e	PKPbc	Z	17:11:25.9	148.9	17.0
GEC2	e	PKPbc	Z	17:11:26.2	149.0	18.6
WLF	e	PKPbc	Z	17:11:28.0	149.2	4.6
BFO	e	PKPbc	Z	17:11:29.6	150.4	8.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/19								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:26:54.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/19	20:24:24.2	18.935S	175.704W	33.0N				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 20:43:57.0	144.7	9.9					
CLZ	e PKPbc	Z 20:44:03.1	146.7	10.5					
CLL	e PKPbc	Z 20:44:03.1	146.9	15.2					
BRG	e PKPbc	Z 20:44:03.7	147.2	17.0					
MOX	e PKPbc	Z 20:44:05.8	147.8	13.1					
WERD	e PKPbc	Z 20:44:05.9	147.8	14.3					
ROTZ	e PKPbc	Z 20:44:07.6	148.5	14.4					
GEC2	e PKPbc	Z 20:44:09.2	149.1	17.5					
BFO	e PKPbc	Z 20:44:12.5	150.4	7.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/20								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 01:57:43.1							
	e Sn	N 01:58:40.0							
WET	e Pn	Z 01:57:48.6							
	e Sn	N 01:58:49.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/20	02:00:15.6	52.566N	167.687W	43.6	4.8			SZGRF
Fox Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:11:43.8	73.5	358.7	0.9	13	5.1		
IBBN	e P	Z	02:11:52.8	75.1	357.1	1.3	21	5.0		
BUG	e P	Z	02:11:57.7	75.9	356.8	0.9	9	4.8		
CLL	e P	Z	02:11:58.4	76.1	0.4	0.9	7	4.7		
BRG	e P	Z	02:12:01.1	76.6	1.0	1.0	7	4.7		
MOX	e P	Z	02:12:02.6	76.8	359.6	0.9	10	4.8		
WERD	e P	Z	02:12:03.5	77.0	360.0	1.2	6	4.5		
TANN	e P	Z	02:12:03.8	77.0	0.1	1.1	6	4.5		
GUNZ	e P	Z	02:12:04.3	77.1	0.0	1.1	7	4.7		
WERN	e P	Z	02:12:04.9	77.1	0.0	0.9	7	4.8		
WLF	e P	Z	02:12:07.9	77.6	356.2	1.3	13	4.9		
GRA1	e P	Z	02:12:08.2	77.7	359.3	0.9	12	5.0		
	e pP	Z	02:12:21.0							
WET	e P	Z	02:12:11.3	78.3	0.4	0.9	2	4.3		
STU	e P	Z	02:12:13.4	78.6	358.1	0.9	6	4.8		
BFO	e P	Z	02:12:15.2	79.0	357.5	1.3	8	4.7		
FUR	e P	Z	02:12:17.4	79.3	359.4	0.3	17	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/20	10:06:57.0	43.020N	82.320E	33.0G	5.7	5.7		SZGRF
Northern Xinjiang, China								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:15:14.8	45.6	71.9	1.2	63	5.5		
CLL	e P	Z	10:15:17.8	46.1	71.8	0.7	91	5.9		
GEC2	e P	Z	10:15:21.5	46.4	70.0	1.9	147	5.8		
TANN	e P	Z	10:15:23.1	46.7	70.7	1.1	53	5.6		
BSEG	e P	Z	10:15:24.7	46.8	72.5	1.1	62	5.7		
	e PP	Z	10:17:13.4							
WET	e P	Z	10:15:24.6	46.8	69.8	1.0	41	5.5		
ROTZ	e P	Z	10:15:25.4	47.0	70.0	1.6	98	5.7		
MOX	e P	Z	10:15:26.4	47.1	70.4	0.9	45	5.6		
	e PP	Z	10:17:15.9							
NRDL	e P	Z	10:15:29.1	47.4	71.1	1.0	79	5.8		
CLZ	e P	Z	10:15:29.2	47.4	70.7	1.7	86	5.6		
	e PP	Z	10:17:19.5							
GRA1	e P	Z	10:15:31.4	47.7	69.3	0.8	104	6.0		
	e PP	Z	10:17:22.1							
	e S	E	10:22:30.1							

	e L	Z	10:36:26.9			18.1	7025		5.7
UBBA	e P	Z	10:15:32.6	48.0	69.6	1.8	133	5.8	
FUR	e P	Z	10:15:35.5	48.2	68.1	1.0	114	6.0	
IBBN	e P	Z	10:15:39.4	48.8	69.5	0.8	57	5.7	
STU	e P	Z	10:15:42.9	49.2	67.5	0.8	56	5.7	
BUG	e P	Z	10:15:44.1	49.4	68.5	1.3	62	5.4	
BFO	e P	Z	10:15:47.9	49.9	66.7	1.5	101	5.5	
WLF	e P	Z	10:15:54.4	50.7	66.5	0.9	38	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/20	17:23:58.0	20.400S	169.662E	38.2		4.8		SZGRF
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:43:23.9	142.9	33.3					
BRG	e PKPbc	Z	17:43:27.1	144.1	41.0					
	e pPKPbc	Z	17:43:38.5							
CLL	e PKPbc	Z	17:43:26.9	144.1	39.3					
CLZ	e PKPbc	Z	17:43:29.4	144.7	35.0					
	e pPKPbc	Z	17:43:41.1							
TANN	e PKPbc	Z	17:43:30.6	145.0	39.3					
	e pPKPbc	Z	17:43:42.0							
IBBN	e PKPbc	Z	17:43:31.1	145.1	30.6					
	e pPKPbc	Z	17:43:42.5							
MOX	e PKPbc	Z	17:43:30.8	145.2	37.8					
	e pPKPbc	Z	17:43:42.2							
ROTZ	e PKPbc	Z	17:43:33.0	145.6	39.5					
	e pPKPbc	Z	17:43:44.2							
UBBA	e PKPbc	Z	17:43:32.9	145.6	35.2					
	e pPKPbc	Z	17:43:43.8							
GEC2	e PKPbc	Z	17:43:32.6	145.7	42.6					
	e pPKPbc	Z	17:43:43.9							
WET	e PKPbc	Z	17:43:32.5	145.8	41.1					
	e pPKPbc	Z	17:43:44.5							
BUG	e PKPbc	Z	17:43:33.8	146.0	30.5					
	e pPKPbc	Z	17:43:45.1							
GRA1	e PKPbc	Z	17:43:33.4	146.1	38.1					
	e L	Z	18:46:02.7			21.7	162		4.8	
FUR	e PKPbc	Z	17:43:37.2	147.2	39.6					
STU	e PKPbc	Z	17:43:38.3	147.6	35.8					
	e pPKPbc	Z	17:43:49.8							
WLF	e PKPbc	Z	17:43:39.6	147.9	30.1					
	e pPKPbc	Z	17:43:51.4							
BFO	e PKPbc	Z	17:43:39.5	148.3	34.8					
	e pPKPbc	Z	17:43:51.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	01:50: 9.6	47.084N	155.879E	33.0N	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	02:01:55.7	76.6	25.0	1.0	10	4.9		
BRG	e P	Z	02:01:56.8	76.7	25.6	1.2	8	4.7		
MOX	e P	Z	02:02:02.0	77.5	24.0	1.5	23	5.1		
ROTZ	e P	Z	02:02:05.0	78.2	24.3	1.3	13	4.8		
GRA1	e P	Z	02:02:07.9	78.5	23.7	1.4	33	5.2		
WET	e P	Z	02:02:07.6	78.6	24.7	1.1	11	4.8		
GEC2	e P	Z	02:02:07.9	78.6	25.2	1.5	12	4.7		
STU	e P	Z	02:02:14.9	79.9	22.3	0.8	10	4.8		
BFO	e P	Z	02:02:18.2	80.5	21.7	1.1	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	10:07:16.9	48.760N	152.060E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	10:18:51.2	74.0	26.7	0.7	14	5.1		
BRG	e P	Z	10:18:52.0	74.1	27.2	1.1	8	4.6		
CLZ	e P	Z	10:18:53.2	74.2	25.1	0.9	12	5.0		
FBE	e P	Z	10:18:53.4	74.2	26.9	0.9	8	4.7		
IBBN	e P	Z	10:18:54.5	74.5	23.5	1.0	22	5.2		
MOX	e P	Z	10:18:56.8	75.0	25.8	1.0	9	4.8		
GUNZ	e P	Z	10:18:57.6	75.0	26.2	0.8	7	4.7		
WERN	e P	Z	10:18:57.9	75.1	26.2	0.8	8	4.8		
ROTZ	e P	Z	10:19:01.0	75.6	26.0	1.1	11	4.9		
GRA1	e P	Z	10:19:03.0	75.9	25.4	0.8	24	5.4		
WET	e P	Z	10:19:03.2	76.0	26.4	1.0	11	5.0		
GEC2	e P	Z	10:19:02.9	76.0	26.8	0.7	4	4.7		
FUR	e P	Z	10:19:10.4	77.3	25.3	0.7	16	5.3		
STU	e P	Z	10:19:10.7	77.3	24.1	0.5	11	5.3		
BFO	e P	Z	10:19:13.8	78.0	23.5	0.9	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	12:53: 5.2	4.252N	96.426E	39.0	5.0	4.8		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:05:20.7	82.0	93.2	1.1	12	4.8		
GEC2	e P	Z	13:05:21.4	82.0	92.7	1.1	12	4.8		
RUE	e P	Z	13:05:21.8	82.2	93.2	0.8	38	5.5		

FBE	e P	Z	13:05:23.2	82.3	92.7	1.0	12	5.0	
WET	e P	Z	13:05:24.1	82.6	92.1	0.9	8	4.8	
CLL	e P	Z	13:05:23.6	82.6	92.5	1.2	12	4.9	
WERD	e P	Z	13:05:25.6	83.0	91.8	1.6	17	4.9	
ROTZ	e P	Z	13:05:26.9	83.0	91.7	0.8	7	4.8	
MOX	e P	Z	13:05:28.5	83.4	91.3	2.3	34	5.2	
FUR	e P	Z	13:05:29.3	83.6	90.8	0.9	19	5.4	
GRA1	e P	Z	13:05:30.0	83.7	90.9	1.1	14	5.1	
	e L	Z	13:52:11.9			21.6	443		4.8
CLZ	e P	Z	13:05:32.5	84.2	90.5	1.5	34	5.4	
BSEG	e P	Z	13:05:33.0	84.3	90.6	1.1	13	5.1	
BFO	e P	Z	13:05:39.2	85.6	88.6	0.7	5	4.8	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/21 13:27: 3.2 8.540S 70.670W 626.3 6.6
 Western Brazil SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	13:38:48.2	88.1	254.4	1.0	1235	7.2		
	e sP	Z	13:42:04.8							
BFO	e P	Z	13:38:52.4	89.2	256.1	1.0	216	6.3		
	e sP	Z	13:42:07.0							
BUG	e PP	Z	13:42:34.6							
	e P	Z	13:38:53.3	89.3	255.3	1.4	754	6.7		
	e sP	Z	13:42:08.2							
	e PP	Z	13:42:36.0							
IBBN	e P	Z	13:38:55.6	89.8	255.7	1.7	1003	6.8		
	e PP	Z	13:42:40.0							
STU	e P	Z	13:38:55.8	89.8	256.8	1.1	732	6.8		
	e sP	Z	13:42:11.9							
	e PP	Z	13:42:39.2							
UBBA	e P	Z	13:39:00.6	90.8	257.4	1.6	379	6.5		
	e sP	Z	13:42:16.7							
FUR	e P	Z	13:39:01.8	91.0	258.3	1.2	727	6.9		
	e sP	Z	13:42:17.7							
	e PP	Z	13:42:49.9							
CLZ	e P	Z	13:39:02.8	91.2	257.7	1.2	300	6.5		
	e sP	Z	13:42:18.1							
GRA1	e P	Z	13:39:03.3	91.3	258.3	1.2	309	6.5		
	e pP	Z	13:41:18.9							
	e PP	Z	13:42:51.6							
	e SKSac	R	13:48:37.1							
	e sS	T	13:53:08.1							
	e PKKP	Z	13:56:21.4							
	e SKKP	Z	13:59:00.3							
	e P'P'df	Z	14:07:05.7							
BSEG	e P	Z	13:39:04.0	91.7	257.7	0.9	297	6.6		

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MOX	e P	Z	13:39:05.1	91.8	258.6	3.2	2351	7.0
	e sP	Z	13:42:20.9					
	e PP	Z	13:42:55.1					
ROTZ	e P	Z	13:39:06.4	92.0	259.1	1.0	314	6.6
	e sP	Z	13:42:21.6					
TANN	e P	Z	13:39:07.6	92.2	259.3	1.3	274	6.4
	e sP	Z	13:42:22.3					
	e PP	Z	13:42:59.5					
WET	e P	Z	13:39:07.5	92.3	259.6	1.2	344	6.5
	e sP	Z	13:42:23.1					
	e PP	Z	13:42:58.7					
CLL	e P	Z	13:39:09.6	92.7	259.7	1.3	180	6.3
	e sP	Z	13:42:25.2					
	e PP	Z	13:43:01.6					
GEC2	e P	Z	13:39:09.5	92.8	260.2	1.0	254	6.6
	e sP	Z	13:42:25.7					
BRG	e P	Z	13:39:12.1	93.2	260.4	1.2	267	6.6
	e sP	Z	13:42:27.6					
	e PP	Z	13:43:06.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	15:11:13.6	33.254N	84.097E	33.0N	4.8			SZGRF

Xizang

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:20:24.8	52.8	80.9	0.9	11	4.8		
FBE	e P	Z 15:20:27.9	53.2	80.5	0.8	9	4.8		
GEC2	e P	Z 15:20:28.8	53.3	79.2	0.9	10	4.8		
CLL	e P	Z 15:20:28.2	53.3	80.6	0.8	6	4.5		
WET	e P	Z 15:20:32.1	53.8	78.9	0.8	7	4.8		
TANN	e P	Z 15:20:31.8	53.8	79.6	0.9	6	4.6		
WERN	e P	Z 15:20:32.9	53.9	79.4	0.9	3	4.3		
GUNZ	e P	Z 15:20:33.2	53.9	79.4	0.7	6	4.7		
WERD	e P	Z 15:20:33.2	53.9	79.5	0.8	6	4.7		
ROTZ	e P	Z 15:20:35.2	54.1	78.9	1.1	11	4.8		
MOX	e P	Z 15:20:35.9	54.3	79.1	1.3	10	4.7		
BSEG	e P	Z 15:20:36.8	54.5	80.5	0.8	14	5.0		
GRA1	e P	Z 15:20:40.1	54.7	78.2	1.2	15	4.9		
CLZ	e P	Z 15:20:40.1	54.8	79.1	1.2	18	5.0		
FUR	e P	Z 15:20:41.6	55.0	77.2	0.8	49	5.6		
STU	e P	Z 15:20:50.2	56.2	76.2	0.6	12	5.1		
WLF	e P	Z 15:21:03.0	57.9	74.8	0.8	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	15:34:51.9	22.300S	65.800W	290.0				NEIC

Jujuy Province, Argentina

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z	15:47:45.3	96.0	242.2					
BFO	e Pdiff	Z	15:47:51.7	96.6	243.6					
	e PP	Z	15:51:45.6							
STU	e Pdiff	Z	15:47:51.0	97.3	244.3					
BUG	e Pdiff	Z	15:47:51.4	97.4	243.2					
IBBN	e Pdiff	Z	15:47:53.3	98.1	243.7					
FUR	e Pdiff	Z	15:47:56.0	98.3	245.7					
	e PP	Z	15:51:58.2							
GRFO	e Pdiff	Z	15:47:58.8	98.9	245.9					
GRA1	e Pdiff	Z	15:47:58.7	98.9	245.9					
MOX	e Pdiff	Z	15:48:01.4	99.5	246.3					
WET	e Pdiff	Z	15:48:02.0	99.7	247.0					
WERN	e Pdiff	Z	15:48:05.8	99.8	246.8					
	e PP	Z	15:52:10.6							
GUNZ	e Pdiff	Z	15:48:03.0	99.8	246.8					
	e PP	Z	15:52:10.4							
WERD	e Pdiff	Z	15:48:02.9	99.9	246.8					
	e PP	Z	15:52:10.7							
TANN	e Pdiff	Z	15:48:03.6	99.9	246.9					
	e PP	Z	15:52:11.2							
BSEG	e Pdiff	Z	15:48:03.7	100.1	245.8					
CLL	e Pdiff	Z	15:48:06.2	100.6	247.4					
	e PP	Z	15:52:16.1							
FBE	e Pdiff	Z	15:48:06.8	100.7	247.6					
	e PP	Z	15:52:15.3							
BRG	e Pdiff	Z	15:48:08.0	101.0	248.0					
	e PP	Z	15:52:18.0							
RUE	e Pdiff	Z	15:48:10.0	101.5	248.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	17:55:38.4	21.420S	169.910E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	18:15:11.4	145.1	41.5					
CLL	e PKPbc	Z	18:15:11.6	145.1	39.7					
FBE	e PKPbc	Z	18:15:12.8	145.3	40.6					
TANN	e PKPbc	Z	18:15:14.4	146.0	39.7					
WERD	e PKPbc	Z	18:15:14.9	146.1	39.4					
GUNZ	e PKPbc	Z	18:15:15.2	146.1	39.6					
WERN	e PKPbc	Z	18:15:15.5	146.2	39.7					
IBBN	e PKPbc	Z	18:15:15.0	146.2	30.8					
MOX	e PKPbc	Z	18:15:15.2	146.2	38.2					
WET	e PKPbc	Z	18:15:17.2	146.8	41.6					

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GRA1	e	PKPbc	Z	18:15:17.5	147.1	38.5
FUR	e	PKPbc	Z	18:15:21.0	148.3	40.1
STU	e	PKPbc	Z	18:15:21.7	148.6	36.2
WLF	e	PKPbc	Z	18:15:23.5	149.0	30.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	18:58: 6.4	0.880S	76.290W	33.0N	5.4			SZGRF

Ecuador

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 19:10:43.0	85.8	263.7	1.0	112	5.9		
BUG	e P	Z 19:10:46.9	86.7	264.4	1.1	58	5.6		
STU	e P	Z 19:10:51.5	87.7	266.0	1.1	45	5.7		
UBBA	e P	Z 19:10:54.7	88.3	266.6	2.0	39	5.4		
CLZ	e P	Z 19:10:56.6	88.6	266.8	1.3	36	5.4		
BSEG	e P	Z 19:10:56.7	88.7	266.7	1.4	21	5.2		
FUR	e P	Z 19:10:58.6	89.0	267.6	0.9	32	5.6		
GRA1	e P	Z 19:10:58.8	89.1	267.5	1.0	22	5.3		
MOX	e P	Z 19:10:59.7	89.4	267.8	1.6	23	5.2		
ROTZ	e P	Z 19:11:01.6	89.7	268.3	1.2	27	5.3		
WERD	e P	Z 19:11:01.9	89.8	268.4	1.3	26	5.3		
GUNZ	e P	Z 19:11:02.0	89.8	268.4	1.7	34	5.3		
WERN	e P	Z 19:11:02.1	89.8	268.4	1.2	31	5.4		
TANN	e P	Z 19:11:02.6	89.9	268.5	1.2	33	5.5		
WET	e P	Z 19:11:03.1	90.1	268.8	1.2	25	5.3		
CLL	e P	Z 19:11:03.9	90.2	268.9	1.3	25	5.3		
FBE	e P	Z 19:11:05.3	90.5	269.2	1.2	32	5.4		
GEC2	e P	Z 19:11:05.5	90.7	269.4	0.9	5	4.9		
RUE	e P	Z 19:11:06.3	90.7	269.5	1.6	59	5.7		
BRG	e P	Z 19:11:06.8	90.8	269.6	1.1	31	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/21	20:40:54.6	55.000S	129.200W	10.0				NEIC

Pacific-Antarctic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 21:00:59.3	155.6	242.2					
MOX	e PKPdf	Z 21:00:59.4	156.3	244.1					
GEC2	e PKPdf	Z 21:00:59.2	156.6	240.6					
TANN	e PKPdf	Z 21:01:00.3	156.6	243.8					
BSEG	e PKPdf	Z 21:01:01.9	156.8	250.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/07/21 22:44:11.3 38.480N 71.140E 33.0N 5.6 5.0 SZGRF
Afghanistan-Tajikistan border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:51:58.9	41.8	82.0	1.4	112	5.4		
CLL	e P	Z 22:51:59.7	41.9	84.3	1.0	114	5.5		
WET	e P	Z 22:52:03.0	42.3	81.8	1.3	89	5.4		
	e PP	Z 22:53:43.2							
TANN	e P	Z 22:52:03.4	42.4	82.9	1.2	80	5.3		
	e PP	Z 22:53:43.7							
ROTZ	e P	Z 22:52:05.9	42.6	82.1	1.4	82	5.3		
MOX	e P	Z 22:52:07.7	42.9	82.6	1.1	88	5.4		
	e PP	Z 22:53:47.8							
GRA1	e P	Z 22:52:11.3	43.3	81.3	1.1	207	5.8		
	e PP	Z 22:53:54.5							
	e S	E 22:58:37.0							
	e L	Z 23:12:29.5			19.0	1969		5.0	
BSEG	e P	Z 22:52:11.6	43.3	85.2	0.9	180	5.8		
	e PP	Z 22:53:53.9							
FUR	e P	Z 22:52:12.7	43.5	79.8	1.3	161	5.6		
	e PP	Z 22:53:54.1							
CLZ	e P	Z 22:52:12.4	43.5	83.0	1.8	248	5.6		
UBBA	e P	Z 22:52:15.4	43.9	81.7	1.1	62	5.2		
STU	e P	Z 22:52:22.3	44.7	79.1	1.1	105	5.7		
IBBN	e P	Z 22:52:25.4	45.0	81.6	1.0	277	6.2		
	e PP	Z 22:54:10.2							
BUG	e P	Z 22:52:28.7	45.5	80.4	1.2	186	6.0		
WLF	e P	Z 22:52:37.1	46.5	78.0	1.0	206	6.2		
	e PP	Z 22:54:26.3							

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/22

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:09:39.1							

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/22 02:58:53.9 19.620N 122.610E 15.0 5.0 4.5 SZGRF
Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:11:31.7	86.0	63.5	1.2	10	4.8		
	e pP	Z 03:11:36.4							
CLL	e P	Z 03:11:33.7	86.3	62.8	1.3	11	4.8		
	e pP	Z 03:11:37.8							

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BSEG	e P	Z	03:11:34.7	86.5	60.8	1.1	25	5.3		
TANN	e P	Z	03:11:37.3	87.0	62.3	1.1	5	4.5		
WET	e P	Z	03:11:39.1	87.4	62.6	1.6	8	4.8		
CLZ	e P	Z	03:11:39.4	87.5	60.8	1.3	16	5.2		
	e pP	Z	03:11:43.9							
GRA1	e P	Z	03:11:42.1	88.1	61.4					
	e S	E	03:21:15.0							
	e L	Z	03:53:18.0			18.9	166		4.5	
BUG	e P	Z	03:11:48.3	89.4	58.4	1.1	18	5.2		
WLF	e P	Z	03:11:55.3	90.9	57.5	1.1	16	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/22	09:34:42.5	39.200N	100.380E	33.0N	5.0	4.4		SZGRF

Gansu, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:44:38.0	58.6	65.0	0.9	9	4.8		
CLL	e P	Z	09:44:40.1	59.0	64.6	1.0	14	5.0		
BSEG	e P	Z	09:44:43.3	59.3	64.3	0.8	28	5.4		
GEC2	e P	Z	09:44:45.2	59.6	63.7	1.2	8	4.6		
TANN	e P	Z	09:44:45.2	59.7	63.8	1.4	10	4.7		
WET	e P	Z	09:44:47.8	60.0	63.4	1.4	9	4.6		
MOX	e P	Z	09:44:47.7	60.0	63.4	1.0	7	4.6		
ROTZ	e P	Z	09:44:48.8	60.1	63.3	1.1	13	4.9		
CLZ	e P	Z	09:44:49.3	60.2	63.3	0.8	20	5.2		
GRA1	e P	Z	09:44:53.0	60.7	62.7	0.9	23	5.0		
	e L	Z	10:10:23.5			21.6	298		4.4	
UBBA	e P	Z	09:44:53.3	60.9	62.5	1.0	7	4.4		
IBBN	e P	Z	09:44:57.0	61.4	61.8	0.8	15	5.3		
BUG	e P	Z	09:45:01.9	62.1	61.1	0.7	15	5.3		
STU	e P	Z	09:45:02.8	62.3	61.0	0.5	10	5.2		
WLF	e P	Z	09:45:12.2	63.6	59.6	1.0	21	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/22	10:49:16.2	5.170S	143.870E	33.0N		5.5		SZGRF

New Guinea, Papua New Guinea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PP	Z	11:09:16.1	118.2	60.1					
	e SP	Z	11:19:02.0							
	e SS	R	11:25:29.7							
BSEG	e PP	Z	11:09:18.4	118.5	55.2					
	e SS	R	11:25:33.5							
CLL	e PP	Z	11:09:17.6	118.5	59.0					
	e SP	Z	11:19:03.2							

	e SS	R	11:25:32.7								
TANN	e PKiKP	Z	11:08:19.9	119.3	58.9						
	e PP	Z	11:09:22.9								
	e SP	Z	11:19:13.9								
GEC2	e PP	Z	11:09:24.2	119.4	60.9						
	e SP	Z	11:19:09.7								
	e SS	R	11:25:44.3								
MOX	e PP	Z	11:09:26.0	119.6	58.0						
	e SP	Z	11:19:15.7								
	e SS	R	11:25:48.1								
CLZ	e PKiKP	Z	11:08:20.5	119.6	56.2						
	e PP	Z	11:09:26.3								
	e SS	R	11:25:49.4								
WET	e PP	Z	11:09:26.1	119.7	59.9						
	e SP	Z	11:19:14.1								
	e SS	R	11:25:50.0								
ROTZ	e PP	Z	11:09:27.2	119.8	59.0						
	e SP	Z	11:19:17.4								
	e SS	R	11:25:52.0								
GRA1	e PKiKP	Z	11:08:21.8	120.3	58.1						
	e PP	Z	11:09:31.1								
	e SS	R	11:25:58.4								
	e L	Z	12:02:11.6			19.8	1199			5.5	
UBBA	e PP	Z	11:09:31.9	120.4	56.3						
	e SP	Z	11:19:20.4								
	e SS	R	11:25:58.5								
IBBN	e SS	R	11:25:29.0	120.7	53.4						
	e SS	R	11:25:42.9								
FUR	e SP	Z	11:19:27.0	121.1	58.9						
	e SS	R	11:26:11.6								
BUG	e PKiKP	Z	11:08:23.5	121.4	53.3						
	e PP	Z	11:09:39.4								
	e SS	R	11:26:14.8								
STU	e PKiKP	Z	11:08:24.9	122.0	56.6						
	e PP	Z	11:09:42.2								
	e SP	Z	11:19:32.3								
	e SS	R	11:26:22.7								
WLF	e PKiKP	Z	11:08:27.9	123.1	53.1						
	e PP	Z	11:09:51.4								
	e SP	Z	11:19:42.5								
	e SS	R	11:26:39.0								

Date 2007/07/22 Origin Time 14:20:37.2 Lat 4.500S Long 141.500E Depth 33.0N mb Ms 5.5 ML Source SZGRF
New Guinea, Papua New Guinea

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML

RGN	e PP	Z	14:40:14.1	114.9	59.8			
RUE	e PP	Z	14:40:19.4	115.7	61.1			
	e Sdiff	T	14:48:06.9					
	e SS	T	14:56:16.9					
BRG	e PP	Z	14:40:24.8	116.4	61.9			
	e Sdiff	T	14:48:14.3					
	e SS	T	14:56:25.6					
CLL	e PP	Z	14:40:26.5	116.7	60.8			
	e Sdiff	T	14:48:16.3					
	e SS	T	14:56:29.4					
BSEG	e PP	Z	14:40:27.3	116.7	57.2			
	e Sdiff	T	14:48:15.1					
TANN	e PP	Z	14:40:32.4	117.4	60.7			
GEC2	e PP	Z	14:40:33.0	117.5	62.6			
	e Sdiff	T	14:48:25.0					
	e SS	T	14:56:41.0					
MOX	e PP	Z	14:40:34.8	117.8	59.8			
	e Sdiff	T	14:48:26.5					
	e SS	T	14:56:45.9					
HLG	e PP	Z	14:40:34.1	117.8	54.7			
	e Sdiff	T	14:48:21.9					
WET	e PP	Z	14:40:35.2	117.8	61.7			
	e Sdiff	T	14:48:28.3					
	e SS	T	14:56:46.8					
CLZ	e PP	Z	14:40:35.1	117.8	58.1			
	e Sdiff	T	14:48:25.8					
	e SS	T	14:56:46.8					
ROTZ	e PP	Z	14:40:35.8	117.9	60.8			
	e Sdiff	T	14:48:29.0					
	e SS	T	14:56:46.8					
GRA1	e PP	Z	14:40:39.9	118.5	59.9			
	e Sdiff	T	14:48:33.5					
	e SS	T	14:56:54.6					
	e L	Z	15:35:07.2			18.7	977	5.5
GRFO	e SS	T	14:56:55.5	118.5	59.9			
UBBA	e PP	Z	14:40:40.1	118.6	58.2			
	e Sdiff	T	14:48:32.6					
	e SS	T	14:56:54.6					
IBBN	e PP	Z	14:40:42.2	118.9	55.4			
FUR	e PP	Z	14:40:45.3	119.2	60.7			
	e Sdiff	T	14:48:39.0					
	e SS	T	14:57:06.1					
BUG	e PP	Z	14:40:47.8	119.7	55.3			
	e Sdiff	T	14:48:41.2					
	e SS	T	14:57:14.8					
STU	e PP	Z	14:40:50.9	120.1	58.4			
	e Sdiff	T	14:48:47.4					
	e SS	T	14:57:16.8					
WLF	e PP	Z	14:40:59.5	121.3	55.0			

e Sdiff T 14:48:57.6
e SS T 14:57:35.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/22	15:42:14.3	2.800S	141.800E	35.0		4.9		NEIC

Near north coast of New Guinea, Papua New Guinea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKiKP	Z 16:00:53.3	115.4	55.9					
CLL	e PKiKP	Z 16:00:53.2	115.4	59.5					
GEC2	e PKiKP	Z 16:00:54.9	116.3	61.2					
CLZ	e PKiKP	Z 16:00:55.5	116.5	56.8					
GRA1	e PKiKP	Z 16:00:56.4	117.2	58.6					
	e PP	Z 16:02:07.8							
	e L	Z 16:55:07.0			19.4	260		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 17:27:45.3							
	e Sn	N 17:28:55.4							
WET	e Pn	Z 17:27:49.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 20:58:56.7							
	e Sn	E 20:59:54.3							
WET	e Pn	N 20:59:02.5							
	e Sn	N 21:00:03.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/22	20:48:36.8	19.580S	178.780W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:08:08.8	144.9	15.0					
IBBN	e PKPbc	Z 21:08:15.3	146.9	11.3					
CLL	e PKPbc	Z 21:08:15.4	146.9	20.7					

CLZ	e	PKPbc	Z	21:08:15.6	147.0	16.0
BRG	e	PKPbc	Z	21:08:16.2	147.1	22.5
FBE	e	PKPbc	Z	21:08:16.9	147.2	21.5
BUG	e	PKPbc	Z	21:08:18.7	147.8	10.7
MOX	e	PKPbc	Z	21:08:18.2	147.9	18.6
TANN	e	PKPbc	Z	21:08:18.3	147.9	20.2
WERD	e	PKPbc	Z	21:08:18.3	147.9	19.9
UBBA	e	PKPbc	Z	21:08:18.3	148.0	15.7
	e	PKPab	Z	21:08:21.5		
WERN	e	PKPbc	Z	21:08:18.7	148.0	20.1
	e	PKPab	Z	21:08:21.9		
ROTZ	e	PKPbc	Z	21:08:20.4	148.6	20.1
GRA1	e	PKPbc	Z	21:08:21.1	148.8	18.4
	e	PKPab	Z	21:08:24.6		
WET	e	PKPbc	Z	21:08:21.4	149.0	21.7
	e	PKPab	Z	21:08:25.7		
GEC2	e	PKPbc	Z	21:08:21.7	149.1	23.3
WLF	e	PKPbc	Z	21:08:23.3	149.7	9.2
STU	e	PKPbc	Z	21:08:24.2	150.1	15.2
FUR	e	PKPbc	Z	21:08:24.5	150.3	19.4
	e	PKPab	Z	21:08:30.7		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/22

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 21:37:25.5

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/22 23:02:19.4 31.130N 77.940E 33.0G 4.9 4.1 ML SZGRF
Northern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 23:11:14.2	50.4	87.4	2.0	37	5.0		
RUE	e P	Z 23:11:14.6	50.4	88.6	1.0	20	5.0		
GEC2	e P	Z 23:11:16.5	50.6	85.5	1.5	7	4.4		
FBE	e P	Z 23:11:17.8	50.7	87.0	1.3	21	4.9		
CLL	e P	Z 23:11:18.2	50.9	87.0	1.5	11	4.6		
WET	e P	Z 23:11:20.4	51.2	85.2	1.9	24	4.8		
TANN	e P	Z 23:11:22.0	51.3	85.9	1.8	26	4.9		
WERN	e P	Z 23:11:21.8	51.4	85.7	1.8	31	4.9		
WERD	e P	Z 23:11:22.5	51.4	85.8	1.6	22	4.8		
ROTZ	e P	Z 23:11:23.5	51.5	85.2	1.8	43	5.1		
MOX	e P	Z 23:11:25.9	51.9	85.5	1.6	22	4.8		
GRA1	e P	Z 23:11:28.5	52.2	84.4	1.5	33	5.0		

	e S	T	23:19:03.3						
	e L	Z	23:36:52.9			21.8	204	4.1	
FUR	e P	Z	23:11:28.4	52.3	83.3				
BSEG	e P	Z	23:11:29.8	52.4	87.0	1.5	41	5.1	
CLZ	e P	Z	23:11:30.6	52.5	85.5	1.1	20	5.0	
STU	e P	Z	23:11:38.6	53.6	82.3	1.8	41	5.2	
IBBN	e P	Z	23:11:42.5	54.1	83.9	1.5	37	5.2	
BUG	e P	Z	23:11:44.7	54.5	82.9	1.0	12	4.9	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/23 00:07:27.1 5.910S 151.600E 33.0N
 New Britain, Papua New Guinea, region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 00:26:20.1	122.9	53.0					
	e PP	Z 00:27:59.5							
CLL	e PKPdf	Z 00:26:20.5	123.1	51.8					
	e PP	Z 00:28:00.4							
FBE	e PKPdf	Z 00:26:21.3	123.2	52.3					
TANN	e PKPdf	Z 00:26:22.4	124.0	51.7					
	e PP	Z 00:28:07.0							
WERD	e PKPdf	Z 00:26:22.5	124.0	51.5					
CLZ	e PKPdf	Z 00:26:22.7	124.1	48.8					
	e PP	Z 00:28:07.6							
WERN	e PKPdf	Z 00:26:23.2	124.1	51.7					
MOX	e PP	Z 00:28:08.6	124.2	50.7					
GEC2	e PKPdf	Z 00:26:22.8	124.3	53.8					
	e PP	Z 00:28:08.9							
ROTZ	e PP	Z 00:28:10.1	124.5	51.8					
WET	e PKPdf	Z 00:26:22.7	124.5	52.8					
	e PP	Z 00:28:10.4							
UBBA	e PP	Z 00:28:13.0	124.9	48.9					
IBBN	e PP	Z 00:28:13.8	124.9	45.7					
GRA1	e PKPdf	Z 00:26:23.2	125.0	50.8					
	e PP	Z 00:28:13.1							
	e SP	R 00:38:09.7							
BUG	e PP	Z 00:28:18.2	125.7	45.6					
FUR	e PP	Z 00:28:20.4	126.0	51.7					
STU	e PKPdf	Z 00:26:27.7	126.6	49.1					
	e PP	Z 00:28:24.0							
BFO	e PP	Z 00:28:29.2	127.4	48.5					
WLF	e PKPdf	Z 00:26:30.3	127.5	45.3					
	e PP	Z 00:28:30.8							

Date Origin Time Lat Long Depth mb Ms ML Source

2007/07/23 06:04:12.4
Vanuatu Islands

13.100S 167.300E 307.0

NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	06:22:59.8	136.5	39.4					
CLL	e PKPdf	Z	06:22:59.9	136.5	37.9					
CLZ	e PKPdf	Z	06:23:01.6	137.0	34.1					
TANN	e PKPdf	Z	06:23:02.1	137.4	37.7					
MOX	e PKPdf	Z	06:23:02.4	137.6	36.5					
GEC2	e PKPdf	Z	06:23:03.4	138.1	40.5					
BUG	e PKPdf	Z	06:23:03.5	138.4	30.1					
GRA1	e PKPdf	Z	06:23:04.5	138.5	36.6					

Date Origin Time
2007/07/23 08:48:10.9
Vanuatu Islands region

Lat Long Depth mb Ms ML
20.027S 171.815E 33.0N

Source
SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	09:07:38.9	143.3	29.9					
BRG	e PKPbc	Z	09:07:42.3	144.6	37.6					
CLL	e PKPbc	Z	09:07:42.2	144.6	35.9					
CLZ	e PKPbc	Z	09:07:44.2	145.0	31.5					
IBBN	e PKPbc	Z	09:07:45.0	145.4	27.0					
TANN	e PKPbc	Z	09:07:45.2	145.5	35.8					
MOX	e PKPbc	Z	09:07:45.7	145.6	34.3					
ROTZ	e PKPbc	Z	09:07:47.2	146.1	36.0					
GEC2	e PKPbc	Z	09:07:47.1	146.3	39.1					
BUG	e PKPbc	Z	09:07:49.0	146.3	26.8					
WET	e PKPbc	Z	09:07:48.9	146.4	37.6					
GRA1	e PKPbc	Z	09:07:49.2	146.6	34.5					
TNS	e PKPbc	Z	09:07:50.5	147.1	29.6					
WLF	e PKPbc	Z	09:07:53.1	148.2	26.2					
BFO	e PKPbc	Z	09:07:54.9	148.7	31.0					

Date Origin Time
2007/07/23 13:39:56.8
Taiwan region

Lat Long Depth mb Ms ML
22.500N 121.500E 33.0N 5.7 5.1

Source
SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	13:52:13.6	81.7	62.5	0.9	138	6.1		
RUE	e P	Z	13:52:17.1	82.4	62.6	0.9	66	5.9		
BRG	e P	Z	13:52:19.9	83.1	62.5	1.0	22	5.4		
FBE	e P	Z	13:52:21.7	83.4	62.1	1.0	57	5.8		
CLL	e P	Z	13:52:21.2	83.4	61.9	0.9	45	5.7		
BSEG	e P	Z	13:52:22.3	83.5	60.1	1.1	30	5.4		

Station	Phase	Type	Time	Depth	mb	Ms	ML	Source	MS	ML
TANN	e P	Z	13:52:25.1	84.1	61.4	1.0	23	5.4		
GEC2	e P	Z	13:52:25.7	84.1	62.2	0.9	62	5.8		
WERD	e P	Z	13:52:25.6	84.2	61.3	1.0	31	5.5		
WERN	e P	Z	13:52:25.9	84.2	61.3	1.0	47	5.7		
MOX	e P	Z	13:52:27.1	84.5	60.8	1.0	41	5.6		
WET	e P	Z	13:52:27.5	84.5	61.6	1.2	37	5.5		
CLZ	e P	Z	13:52:28.0	84.5	60.0	1.0	75	5.9		
ROTZ	e P	Z	13:52:27.9	84.5	61.2	1.0	55	5.8		
GRA1	e P	Z	13:52:31.0	85.1	60.4	1.1	57	5.7		
	e L	Z	14:34:31.8			19.3	779		5.1	
UBBA	e P	Z	13:52:30.9	85.3	59.6	1.2	23	5.3		
IBBN	e P	Z	13:52:33.6	85.7	58.0	1.1	97	5.9		
FUR	e P	Z	13:52:35.0	85.9	60.4	1.2	202	6.1		
BUG	e P	Z	13:52:36.8	86.4	57.6	1.1	87	5.8		
TNS	e P	Z	13:52:36.8	86.4	58.4	1.1	45	5.5		
STU	e P	Z	13:52:39.0	86.8	58.9	0.9	37	5.5		
BFO	e P	Z	13:52:41.7	87.5	58.2	1.9	41	5.4		
WLF	e P	Z	13:52:44.8	88.0	56.7	1.0	109	6.1		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/23 17:54: 6.5 27.507N 56.129E 33.0N 4.5
 Southern Iran

Sta	Phase	Type	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:01:43.9	40.7	106.1	1.1	10	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/23 22:30: 7.5 13.670N 90.420W 119.4 5.4
 Near coast of Guatemala

Sta	Phase	Type	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	22:42:24.1	83.8	283.8	1.0	31	5.5		
BUG	e P	Z	22:42:24.9	84.0	284.5	1.1	21	5.3		
TNS	e P	Z	22:42:30.5	85.1	285.5	1.0	58	5.8		
BSEG	e P	Z	22:42:30.9	85.2	286.6	0.9	51	5.7		
CLZ	e P	Z	22:42:34.3	85.8	286.8	0.9	34	5.5		
	e pP	Z	22:43:04.5							
UBBA	e P	Z	22:42:34.9	85.9	286.6	2.0	60	5.4		
STU	e P	Z	22:42:34.6	85.9	286.2	0.8	32	5.5		
MOX	e P	Z	22:42:39.4	86.9	287.9	1.0	21	5.2		
GRA1	e P	Z	22:42:40.1	86.9	287.6	1.0	37	5.5		
	e PP	Z	22:46:05.0							
WERD	e P	Z	22:42:42.2	87.4	288.4	1.3	27	5.2		
FUR	e P	Z	22:42:42.2	87.4	287.7	2.0	90	5.7		
WERN	e P	Z	22:42:42.8	87.5	288.5	1.3	42	5.6		

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TANN	e P	Z	22:42:42.5	87.5	288.5	1.4	37	5.5
CLL	e P	Z	22:42:42.3	87.5	288.9	1.0	18	5.4
ROTZ	e P	Z	22:42:43.0	87.5	288.4	1.3	24	5.3
	e pP	Z	22:43:13.1					
FBE	e P	Z	22:42:44.7	87.8	289.2	1.0	26	5.5
WET	e P	Z	22:42:45.9	88.1	288.9	1.4	48	5.6
	e pP	Z	22:43:16.5					
BRG	e P	Z	22:42:45.7	88.2	289.7	1.1	12	5.1
	e pP	Z	22:43:17.0					
GEC2	e P	Z	22:42:48.1	88.7	289.5	1.1	14	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/24	10:08:1.3	27.258N	56.993E	33.0N	4.4			SZGRF

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:15:28.5	39.6	106.9	1.2	8	4.2		
BRG	e P	Z 10:15:32.5	40.1	109.5	1.3	6	4.1		
WET	e P	Z 10:15:33.8	40.2	106.5	1.5	18	4.5		
FBE	e P	Z 10:15:33.8	40.4	109.0	1.9	31	4.6		
TANN	e P	Z 10:15:39.6	40.8	107.5	2.0	24	4.6		
GRA1	e P	Z 10:15:44.6	41.4	105.5	0.8	8	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/24	13:41:29.0	42.241N	49.421E	33.0N	4.7			SZGRF

Caspian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:46:55.7	25.6	95.8	0.8	12	4.6		
GEC2	e P	Z 13:46:55.4	25.6	91.3	0.6	10	4.6		
RUE	e P	Z 13:46:59.1	25.9	98.9	0.8	33	5.0		
FBE	e P	Z 13:47:00.4	26.0	95.3					
CLL	e P	Z 13:47:01.8	26.2	95.8	0.8	16	4.7		
ROTZ	e P	Z 13:47:05.0	26.6	92.0	1.2	10	4.4		
MOX	e P	Z 13:47:08.9	27.0	93.3	1.1	17	4.7		
GRA1	e P	Z 13:47:10.6	27.3	91.1	1.0	8	4.4		
GRFO	e P	Z 13:47:13.3	27.3	91.1	0.9	12	4.6		
CLZ	e P	Z 13:47:14.6	27.9	94.5	1.1	32	5.0		
UBBA	e P	Z 13:47:18.5	28.1	92.3	0.7	6	4.6		
BSEG	e P	Z 13:47:20.2	28.2	98.4	0.8	9	4.6		
STU	e P	Z 13:47:23.1	28.6	87.8	1.4	42	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/07/24 14:51:32.9 2.650N 97.050E 33.0N 5.3 4.3 SZGRF
Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:03:58.6	83.6	93.7	1.5	34	5.3		
GEC2	e P	Z	15:03:58.6	83.6	93.3	1.5	38	5.4		
FBE	e P	Z	15:04:01.0	84.0	93.2	1.1	20	5.3		
WET	e P	Z	15:04:01.6	84.2	92.7	1.7	38	5.3		
WERD	e P	Z	15:04:03.4	84.6	92.4	0.8	10	5.1		
ROTZ	e P	Z	15:04:04.2	84.6	92.2	1.4	17	5.1		
GRA1	e P	Z	15:04:07.2	85.3	91.5	1.0	18	5.3		
	e L	Z	15:49:23.7			20.6	128		4.3	
BSEG	e P	Z	15:04:10.3	85.9	91.1	1.0	39	5.5		
WLF	e P	Z	15:04:23.2	88.6	87.6	1.1	23	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/24 21:52: 9.6 37.834N 138.395E 33.0N 4.9 3.9 SZGRF
Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	22:04:04.2	77.9	39.5	1.3	23	5.2		
BRG	e P	Z	22:04:09.2	78.8	41.6	1.1	6	4.6		
CLL	e P	Z	22:04:09.4	78.9	41.0	1.3	15	4.8		
FBE	e P	Z	22:04:11.2	79.0	41.2	1.1	12	4.8		
CLZ	e P	Z	22:04:13.6	79.5	39.3	1.4	15	4.7		
TANN	e P	Z	22:04:14.3	79.8	40.5	1.6	14	4.6		
WERN	e P	Z	22:04:15.1	79.9	40.5	1.4	16	4.7		
MOX	e P	Z	22:04:15.3	80.0	40.0	1.2	9	4.6		
ROTZ	e P	Z	22:04:18.0	80.4	40.3	1.5	20	4.9		
GEC2	e P	Z	22:04:17.8	80.4	41.2	1.3	7	4.5		
WET	e P	Z	22:04:19.2	80.6	40.7	1.4	11	4.7		
GRA1	e P	Z	22:04:20.6	80.8	39.6	1.5	44	5.2		
	e L	Z	22:49:25.6			19.5	53		3.9	
BUG	e P	Z	22:04:21.6	81.0	37.0	1.3	31	5.2		
TNS	e P	Z	22:04:24.1	81.6	37.7	1.8	26	5.1		
STU	e P	Z	22:04:28.4	82.4	38.1	0.9	17	5.3		
BFO	e P	Z	22:04:31.8	83.1	37.5	1.5	38	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/07/25 23:37:29.9 6.560N 92.810E 33.0N 5.7 5.9 SZGRF
Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:49:24.9	77.9	94.5	1.3	75	5.7		
GEC2	e P	Z	23:49:25.2	77.9	93.9	1.3	112	5.8		

RUE	e P	Z	23:49:26.8	78.1	94.7	1.2	162	6.0
WET	e P	Z	23:49:28.3	78.5	93.3	1.4	96	5.6
CLL	e P	Z	23:49:28.0	78.5	93.8	1.3	56	5.4
TANN	e P	Z	23:49:30.1	78.8	93.2	1.5	66	5.4
WERD	e P	Z	23:49:30.7	78.9	93.1	1.1	44	5.4
ROTZ	e P	Z	23:49:31.3	78.9	92.9	1.2	87	5.7
MOX	e P	Z	23:49:33.1	79.4	92.6	1.9	165	5.7
FUR	e P	Z	23:49:33.5	79.5	91.9	1.5	151	5.7
GRA1	e P	Z	23:49:34.7	79.6	92.2	1.1	115	5.7
	e S	T	23:59:35.9					
CLZ	e P	Z	23:49:37.3	80.2	91.9	1.0	67	5.5
BSEG	e P	Z	23:49:38.1	80.3	92.2	1.1	107	5.7
STU	e P	Z	23:49:41.1	80.9	90.5	2.0	208	5.8
TNS	e P	Z	23:49:43.9	81.4	90.1	1.1	50	5.5
BFO	e P	Z	23:49:44.0	81.4	89.7	1.1	43	5.4
IBBN	e P	Z	23:49:46.1	81.8	89.9	1.5	148	5.9
BUG	e P	Z	23:49:47.8	82.1	89.4	1.2	78	5.7
WLF	e P	Z	23:49:52.1	82.8	88.3	1.3	85	5.8
GRA1	e SS	R	00:04:48.8	79.6	92.2			
	e SSS	R	00:08:04.5					
	e L	Z	00:31:04.1			19.1	5019	5.9

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/25 01:03:42.5 25.810S 179.840W 452.2 mb MS ML SZGRF
 South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:22:43.0	150.9	19.0					
CLL	e PKPbc	Z	01:22:46.9	152.7	25.9					
	e PKPab	Z	01:22:59.4							
	e pPKPab	Z	01:24:42.9							
BRG	e PKPdf	Z	01:22:38.9	152.8	28.0					
	e PKPbc	Z	01:22:47.5							
	e PKPab	Z	01:23:00.3							
	e pPKPab	Z	01:24:44.2							
CLZ	e PKPbc	Z	01:22:47.6	152.8	20.5					
	e pPKPab	Z	01:24:43.9							
IBBN	e PKPbc	Z	01:22:47.4	152.9	15.1					
	e pPKPab	Z	01:24:44.1							
TANN	e PKPdf	Z	01:22:40.8	153.6	25.6					
	e PKPbc	Z	01:22:49.2							
	e PKPab	Z	01:23:03.7							
MOX	e PKPdf	Z	01:22:40.5	153.7	23.8					
	e PKPbc	Z	01:22:49.0							
	e PKPab	Z	01:23:03.6							
UBBA	e PKPab	Z	01:23:04.2	153.9	20.5					
ROTZ	e PKPab	Z	01:23:07.0	154.3	25.7					

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GRA1	e	PKPab	Z	01:23:08.2	154.6	23.8
WET	e	PKPdf	Z	01:22:42.0	154.7	27.6
	e	PKPab	Z	01:23:08.3		
GEC2	e	PKPab	Z	01:23:08.2	154.7	29.5
TNS	e	PKPab	Z	01:23:07.8	154.8	17.7
WLF	e	PKPab	Z	01:23:12.7	155.7	13.2
FUR	e	PKPab	Z	01:23:14.5	156.0	25.3
BFO	e	PKPab	Z	01:23:16.0	156.6	18.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/25	06:22: 8.7	36.164N	69.391E	33.0N	4.6			SZGRF
Hindu Kush, Afghanistan, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:30:09.2	43.5	85.2	2.1	24	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/25	10:06: 8.5	39.163N	77.642E	33.0N	4.8	3.9		SZGRF
Southern Xinjiang, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:14:25.5	45.6	77.1	1.1	10	4.8		
GRA1	e P	Z 10:14:36.7	47.0	76.4	0.9	5	4.7		
	e L	Z 10:35:58.6			20.6	123		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/25	15:04:25.7	5.500S	151.500E	111.0				NEIC
New Britain, Papua New Guinea, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 15:23:08.2	122.3	47.6					
BRG	e PKPdf	Z 15:23:08.8	122.5	52.8					
CLL	e PKPdf	Z 15:23:09.0	122.7	51.6					
FBE	e PKPdf	Z 15:23:10.2	122.8	52.2					
HLG	e PKPdf	Z 15:23:12.2	123.1	44.8					
WERD	e PKPdf	Z 15:23:10.9	123.6	51.4					
CLZ	e PKPdf	Z 15:23:11.0	123.7	48.6					
WERN	e PKPdf	Z 15:23:11.0	123.7	51.5					
GEC2	e PKPdf	Z 15:23:11.3	123.9	53.6					
WET	e PKPdf	Z 15:23:11.8	124.1	52.6					
GRA1	e PKPdf	Z 15:23:12.0	124.6	50.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/25	19:38:13.8	43.640N	29.820W	20.6	5.0	4.3		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:43:38.5	25.2	270.0	1.5	68	5.2		
IBBN	e P	Z	19:43:49.5	26.3	265.9	1.1	60	5.1		
BFO	e P	Z	19:43:51.8	26.6	274.3					
CLZ	e P	Z	19:44:03.2	27.8	269.0	1.5	61	5.2		
BSEG	e P	Z	19:44:03.4	27.9	265.0	1.3	65	5.3		
GRA1	e P	Z	19:44:08.7	28.4	273.6	1.7	63	5.2		
	e pP	Z	19:44:14.0							
	e L	Z	19:53:06.4			22.0	830		4.3	
FUR	e P	Z	19:44:10.7	28.6	276.5					
MOX	e P	Z	19:44:10.4	28.6	272.2	1.7	36	4.9		
ROTZ	e P	Z	19:44:13.8	29.1	274.2	2.1	37	4.9		
TANN	e P	Z	19:44:15.2	29.2	273.2	1.9	26	4.7		
CLL	e P	Z	19:44:17.8	29.5	272.0	1.2	13	4.6		
WET	e P	Z	19:44:17.8	29.6	275.7	1.8	28	4.8		
BRG	e P	Z	19:44:23.4	30.1	273.4	1.7	36	4.9		
GEC2	e P	Z	19:44:23.6	30.1	276.8	1.5	25	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/25	20:43: 9.7	21.300S	177.590W	504.9				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:01:54.6	146.8	13.5					
IBBN	e PKPbc	Z	21:02:00.0	148.7	9.6					
CLZ	e PKPbc	Z	21:02:00.0	148.8	14.4					
	e PKPab	Z	21:02:05.8							
	e PP	Z	21:05:31.6							
CLL	e PKPbc	Z	21:01:59.5	148.9	19.3					
	e PKPab	Z	21:02:05.5							
	e PP	Z	21:05:31.3							
BRG	e PKPbc	Z	21:02:00.1	149.1	21.3					
	e PKPab	Z	21:02:06.4							
	e pPKPbc	Z	21:03:57.0							
BUG	e PKPbc	Z	21:02:01.4	149.6	9.0					
	e PKPab	Z	21:02:08.5							
	e pPKPbc	Z	21:03:58.8							
MOX	e PKPbc	Z	21:02:01.9	149.8	17.2					
	e PKPab	Z	21:02:09.3							
TANN	e PKPbc	Z	21:02:02.1	149.8	18.9					
	e PKPab	Z	21:02:09.6							
	e PP	Z	21:05:37.5							

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UBBA	e PKPbc	Z	21:02:02.1	149.9	14.2
	e PKPab	Z	21:02:09.4		
	e PP	Z	21:05:36.7		
ROTZ	e PKPbc	Z	21:02:03.7	150.5	18.8
	e PKPab	Z	21:02:12.8		
TNS	e PKPbc	Z	21:02:04.5	150.7	11.5
	e PKPab	Z	21:02:13.4		
	e pPKPbc	Z	21:04:01.6		
GRA1	e PKPbc	Z	21:02:04.5	150.8	17.0
	e PKPab	Z	21:02:13.9		
WET	e PKPbc	Z	21:02:04.6	150.9	20.4
	e PKPab	Z	21:02:14.6		
	e PP	Z	21:05:44.0		
GEC2	e PKPbc	Z	21:02:04.9	151.0	22.1
	e PKPab	Z	21:02:14.6		
WLF	e PKPbc	Z	21:02:06.3	151.5	7.3
	e PKPab	Z	21:02:17.0		
	e pPKPbc	Z	21:04:04.4		
STU	e PKPbc	Z	21:02:07.9	152.0	13.6
	e PKPab	Z	21:02:18.9		
FUR	e PKPbc	Z	21:02:07.5	152.2	17.9
	e PKPab	Z	21:02:20.0		
	e pPKPbc	Z	21:04:10.8		
BFO	e PKPbc	Z	21:02:08.4	152.6	12.0
	e PKPab	Z	21:02:21.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/26	05:40:13.0	1.440N	128.110E	48.0		6.7		SZGRF
Halmahera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	05:54:09.7	103.8	69.9					
	e PP	Z	05:58:27.6							
	e SKSac	R	06:04:45.4							
	e SP	R	06:07:24.9							
CLL	e Pdiff	Z	05:54:11.4	104.2	69.0					
	e PP	Z	05:58:30.3							
	e SKSac	R	06:04:46.6							
	e SP	R	06:07:28.6							
GEC2	e Pdiff	Z	05:54:13.5	104.7	70.2					
	e PP	Z	05:58:33.4							
	e SKSac	R	06:04:48.6							
	e Sdiff	T	06:05:58.9							
	e SP	R	06:07:34.4							
	e SS	R	06:13:19.6							
BSEG	e Pdiff	Z	05:54:13.8	104.7	66.1					
	e PP	Z	05:58:33.7							

	e SKSac	R	06:04:50.4				
	e SP	R	06:07:34.2				
	e SS	R	06:13:21.0				
TANN	e Pdiff	Z	05:54:14.0	104.9	68.8		
	e PP	Z	05:58:35.5				
	e SKSac	R	06:04:51.0				
	e SP	R	06:07:36.5				
WET	e Pdiff	Z	05:54:16.1	105.1	69.5		
	e pPdiff	Z	05:54:31.0				
	e PP	Z	05:58:36.8				
	e SKSac	R	06:04:51.3				
	e Sdiff	T	06:06:06.6				
	e SP	R	06:07:39.7				
	e SS	R	06:13:26.9				
ROTZ	e Pdiff	Z	05:54:15.9	105.2	68.8		
	e PP	Z	05:58:38.8				
	e SKSac	R	06:04:53.0				
	e Sdiff	T	06:06:06.9				
	e SP	R	06:07:41.5				
MOX	e Pdiff	Z	05:54:16.0	105.3	68.0		
	e PP	Z	05:58:38.6				
	e SKSac	R	06:04:52.3				
	e Sdiff	T	06:06:07.1				
	e SP	R	06:07:40.7				
	e SS	R	06:13:28.7				
CLZ	e Pdiff	Z	05:54:17.6	105.5	66.7		
	e PP	Z	05:58:40.5				
	e SKSac	R	06:04:53.9				
	e Sdiff	T	06:06:08.3				
	e SP	R	06:07:42.7				
	e SS	R	06:13:30.2				
GRA1	e Pdiff	Z	05:54:19.1	105.9	68.0		
	e pPdiff	Z	05:54:34.8				
	e PP	Z	05:58:43.4				
	e SKSac	R	06:04:55.6				
	e SP	R	06:07:48.5				
	e SS	R	06:13:37.2				
	e L	Z	06:46:42.6			20.5	21698
UBBA	e Pdiff	Z	05:54:20.1	106.1	66.6		6.7
	e PP	Z	05:58:44.9				
	e SKSac	R	06:04:56.7				
	e SP	R	06:07:50.3				
	e SS	R	06:13:40.3				
FUR	e Pdiff	Z	05:54:21.5	106.4	68.4		
	e PP	Z	05:58:46.1				
	e SKSac	R	06:04:55.9				
	e Sdiff	T	06:06:16.0				
	e SP	R	06:07:55.6				
IBBN	e Pdiff	Z	05:54:22.9	106.8	64.3		

	e PP	Z	05:58:49.4		
	e SKSac	R	06:04:59.6		
	e SP	R	06:07:57.2		
	e SS	R	06:13:47.8		
TNS	e Pdiff	Z	05:54:25.0	107.3	65.5
	e pPdiff	Z	05:54:41.0		
	e PP	Z	05:58:53.9		
	e SKSac	R	06:05:02.7		
	e Sdiff	T	06:06:26.6		
	e SP	R	06:08:03.8		
	e SS	R	06:13:56.2		
STU	e Pdiff	Z	05:54:26.6	107.4	66.5
	e PP	Z	05:58:54.1		
	e SKSac	R	06:05:01.3		
	e Sdiff	T	06:06:25.2		
	e SP	R	06:08:06.5		
	e SS	R	06:13:59.5		
BUG	e Pdiff	Z	05:54:25.8	107.4	64.1
	e PP	Z	05:58:54.1		
	e SKSac	R	06:05:02.8		
	e SP	R	06:08:04.8		
	e SS	R	06:13:57.4		
BFO	e Pdiff	Z	05:54:28.9	108.1	65.9
	e PP	Z	05:58:59.0		
	e SKSac	R	06:05:04.3		
	e Sdiff	T	06:06:31.0		
	e SP	R	06:08:15.4		
	e SS	R	06:14:08.9		
WLF	e PP	Z	05:59:05.1	108.9	63.7
	e SKSac	R	06:05:09.9		
	e Sdiff	T	06:06:37.3		
	e SP	R	06:08:23.1		
	e SS	R	06:14:20.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/26 07:00:58.7 22.059S 178.648E 33.0N
 South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	07:20:41.7	148.7	26.2					
BRG	e PKPbc	Z	07:20:42.4	148.8	28.2					
FBE	e PKPbc	Z	07:20:43.6	148.9	27.1					
TANN	e PKPbc	Z	07:20:44.4	149.6	26.0					
WERD	e PKPbc	Z	07:20:44.4	149.7	25.7					
MOX	e PKPbc	Z	07:20:44.1	149.7	24.3					
GUNZ	e PKPbc	Z	07:20:44.8	149.7	25.8					
WERN	e PKPbc	Z	07:20:44.8	149.8	25.9					

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ROTZ	e	PKPbc	Z	07:20:46.3	150.3	26.0
GRA1	e	PKPbc	Z	07:20:47.3	150.6	24.3
GEC2	e	PKPbc	Z	07:20:46.9	150.7	29.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/26	13:52:28.6	20.610S	178.440W	579.6				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	14:11:07.5	146.0	14.8			
IBBN	e	PKPbc	Z	14:11:12.8	147.9	11.0			
CLL	e	PKPbc	Z	14:11:12.9	148.0	20.5			
	e	PKPab	Z	14:11:17.6					
	e	pPKPab	Z	14:13:25.0					
CLZ	e	PKPbc	Z	14:11:13.4	148.0	15.7			
BRG	e	PKPbc	Z	14:11:13.7	148.2	22.4			
	e	PKPab	Z	14:11:18.4					
BUG	e	PKPbc	Z	14:11:14.9	148.8	10.4			
MOX	e	PKPbc	Z	14:11:15.1	148.9	18.5			
	e	PKPab	Z	14:11:21.4					
TANN	e	PKPbc	Z	14:11:15.5	149.0	20.1			
	e	PKPab	Z	14:11:21.8					
UBBA	e	PKPbc	Z	14:11:15.4	149.1	15.5			
ROTZ	e	PKPbc	Z	14:11:17.2	149.6	20.0			
	e	PKPab	Z	14:11:24.5					
TNS	e	PKPbc	Z	14:11:17.8	149.9	12.9			
GRA1	e	PKPbc	Z	14:11:18.1	149.9	18.3			
	e	PKPab	Z	14:11:25.1					
	e	pPKPab	Z	14:13:34.0					
WET	e	PKPbc	Z	14:11:18.0	150.1	21.6			
	e	PKPab	Z	14:11:26.8					
GEC2	e	PKPbc	Z	14:11:18.1	150.1	23.3			
	e	pPKPab	Z	14:13:32.6					
STU	e	PKPbc	Z	14:11:20.6	151.2	14.9			
	e	PKPab	Z	14:11:31.0					
FUR	e	PKPbc	Z	14:11:20.9	151.4	19.2			
	e	PKPab	Z	14:11:32.0					
BFO	e	PKPbc	Z	14:11:21.7	151.8	13.5			
	e	PKPab	Z	14:11:33.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/26	16:46:55.3	22.790S	178.130W	532.0				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e	PKPbc	Z	17:05:40.5	148.2	14.9
	e	pPKPab	Z	17:07:54.2		
IBBN	e	PKPbc	Z	17:05:46.6	150.1	11.0
	e	PKPab	Z	17:05:50.9	150.2	21.0
CLL	e	PKPbc	Z	17:05:45.7		
	e	pPKPab	Z	17:08:01.6		
CLZ	e	PKPbc	Z	17:05:46.0	150.2	15.9
	e	pPKPab	Z	17:08:01.3		
BRG	e	PKPbc	Z	17:05:46.2	150.4	23.0
	e	pPKPab	Z	17:08:02.8		
BUG	e	PKPbc	Z	17:05:47.4	151.0	10.3
	e	PKPab	Z	17:05:55.3	151.1	18.9
MOX	e	PKPbc	Z	17:05:48.0		
	e	pPKPab	Z	17:08:06.8		
TANN	e	PKPbc	Z	17:05:48.3	151.2	20.6
	e	PKPab	Z	17:05:55.7		
UBBA	e	PKPbc	Z	17:05:48.2	151.3	15.7
	e	pPKPab	Z	17:08:07.4		
ROTZ	e	PKPbc	Z	17:05:49.8	151.8	20.5
	e	PKPab	Z	17:05:58.8		
TNS	e	PKPbc	Z	17:05:50.4	152.1	13.0
	e	PKPab	Z	17:05:58.8		
GRA1	e	PKPbc	Z	17:05:50.7	152.1	18.7
	e	PKPab	Z	17:05:59.4		
WET	e	PKPbc	Z	17:05:50.7	152.2	22.2
	e	PKPab	Z	17:05:59.9		
GEC2	e	PKPbc	Z	17:05:50.7	152.3	24.0
	e	PKPab	Z	17:06:00.7		
WLF	e	PKPbc	Z	17:05:52.9	152.9	8.7
	e	PKPab	Z	17:06:02.3		
STU	e	PKPbc	Z	17:05:53.4	153.4	15.2
	e	PKPab	Z	17:06:04.1		
FUR	e	PKPbc	Z	17:05:53.6	153.5	19.8
	e	PKPab	Z	17:06:05.4		
BFO	e	PKPbc	Z	17:05:54.0	153.9	13.7
	e	PKPab	Z	17:06:06.5		

Date 2007/07/26
 Origin Time 18:54:37.0
 Lat 2.130S
 Long 37.440E
 Depth 33.0N
 mb 4.9
 Ms 4.6
 ML
 Source SZGRF
 Kenya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:04:08.2	55.0	150.6	1.6	46	5.3		
FUR	e P	Z 19:04:09.6	55.2	147.6	0.9	16	5.0		
WET	e P	Z 19:04:13.5	55.5	149.7	1.5	14	4.8		
	e PcP	Z 19:05:12.2							
ROTZ	e P	Z 19:04:16.5	56.3	149.2	1.4	20	4.9		

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	e PcP	Z	19:05:15.3							
GRA1	e P	Z	19:04:19.3	56.5	148.0	1.2	14	4.8		
	e pP	Z	19:04:22.2							
	e PcP	Z	19:05:16.9							
	e L	Z	19:49:49.3			19.4	476		4.6	
BRG	e P	Z	19:04:20.4	56.7	151.5	1.7	9	4.5		
TANN	e P	Z	19:04:20.6	56.7	149.7	2.0	35	5.0		
	e PcP	Z	19:05:18.0							
MOX	e P	Z	19:04:25.5	57.2	148.8	1.5	20	4.9		
	e PcP	Z	19:05:19.5							
CLL	e P	Z	19:04:24.7	57.3	150.6	1.2	9	4.7		
	e PcP	Z	19:05:20.7							
UBBA	e PcP	Z	19:05:23.6	57.9	147.1					
TNS	e P	Z	19:04:28.9	57.9	145.1	1.5	28	5.1		
WLF	e P	Z	19:04:33.1	58.4	142.4	1.4	34	5.2		
CLZ	e P	Z	19:04:35.1	58.6	147.8	2.0	23	4.9		
BSEG	e P	Z	19:04:46.8	60.4	148.4	1.6	29	5.1		
	e PcP	Z	19:05:30.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	23:22:46.5	44.020N	130.640W	15.7	5.0	4.7		SZGRF

Off coast of Oregon, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z 23:34:41.9	77.2	330.7	1.1	26	5.3		
CLZ	e P	Z 23:34:48.6	78.4	332.5	1.4	27	5.1		
UBBA	e P	Z 23:34:52.8	79.2	332.3	1.6	26	4.9		
TNS	e P	Z 23:34:54.0	79.3	331.4	2.6	95	5.3		
CLL	e P	Z 23:34:55.4	79.6	334.3	1.2	16	4.8		
MOX	e P	Z 23:34:55.9	79.8	333.4	1.3	21	4.9		
BRG	e P	Z 23:34:58.6	80.3	335.0	1.5	30	5.1		
TANN	e P	Z 23:34:58.5	80.3	334.0	1.4	14	4.8		
GRA1	e P	Z 23:35:00.6	80.6	333.2	1.2	18	5.0		
	e pP	Z 23:35:05.1							
	e S	R 23:45:16.2							
ROTZ	e P	Z 23:35:02.2	80.8	333.9	1.3	10	4.7		
BFO	e P	Z 23:35:01.6	80.9	331.4	1.6	25	5.0		
WET	e P	Z 23:35:05.5	81.5	334.4	1.5	18	5.0		
GEC2	e P	Z 23:35:07.7	82.0	335.0	1.2	11	4.9		
GRA1	e L	Z 00:13:29.9	80.6	333.2	18.0	343		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	00:16:58.7	29.142N	131.376E	33.0N	4.8	4.3		SZGRF

Southeast of Ryukyu Islands, Japan

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:29:31.1	85.0	49.3	0.9	6	4.8		
	e L	Z 01:09:27.2			21.4	122		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	01:37:47.0	44.400N	129.600W	10.0	4.2	4.5		NEIC

Off coast of Oregon, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:49:58.4	79.9	332.7	1.0	4	4.2		
	e PcP	Z 01:50:04.9							
	e L	Z 02:26:35.0			21.9	261		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	03:30:13.6	21.080S	178.730W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 03:49:56.4	148.4	21.2					
BRG	e PKPbc	Z 03:49:57.1	148.6	23.1					
TANN	e PKPbc	Z 03:49:59.2	149.4	20.8					
WERD	e PKPbc	Z 03:49:58.4	149.4	20.5					
GUNZ	e PKPbc	Z 03:49:59.3	149.4	20.6					
WERN	e PKPbc	Z 03:49:59.6	149.5	20.7					
ROTZ	e PKPbc	Z 03:50:01.0	150.0	20.8					
GEC2	e PKPbc	Z 03:50:01.8	150.5	24.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	03:51:22.6	14.600S	175.500W	10.0				NEIC

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 04:11:01.3	142.9	15.3					
GRA1	e PKPdf	Z 04:10:59.3	144.5	11.2					
WET	e PKPdf	Z 04:11:00.1	144.8	14.2					
WLF	e PKPdf	Z 04:11:00.5	144.9	2.8					
GEC2	e PKPdf	Z 04:10:59.9	144.9	15.6					
STU	e PKPdf	Z 04:11:02.6	145.6	8.1					
FUR	e PKPdf	Z 04:11:04.0	146.0	11.8					
BFO	e PKPdf	Z 04:11:03.5	146.1	6.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	05:18:12.5	39.682N	77.937E	33.0N	4.4			SZGRF

Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:26:23.4	44.9	78.5					
FBE	e P	Z	05:26:27.6	45.3	78.1	0.9	8	4.5		
CLL	e P	Z	05:26:27.3	45.4	78.3	0.8	5	4.3		
GEC2	e P	Z	05:26:28.6	45.5	76.3	1.1	12	4.5		
TANN	e P	Z	05:26:32.3	45.9	77.1	1.2	8	4.3		
WET	e P	Z	05:26:32.5	46.0	76.1					
WERN	e P	Z	05:26:32.0	46.0	76.9	1.4	10	4.3		
WERD	e P	Z	05:26:32.8	46.0	77.0	1.2	8	4.3		
GUNZ	e P	Z	05:26:32.5	46.0	76.9	1.2	8	4.3		
ROTZ	e P	Z	05:26:34.3	46.2	76.3	1.8	17	4.5		
MOX	e P	Z	05:26:35.3	46.4	76.8	0.8	4	4.2		
GRA1	e P	Z	05:26:39.8	46.9	75.6	0.8	11	4.6		
GRFO	e P	Z	05:26:40.2	46.9	75.6	0.8	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	14:46:27.4	22.290S	172.000E	33.0N		6.1		SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	15:06:01.6	145.5	30.9					
RUE	e PKPbc	Z	15:06:01.3	145.5	37.3					
HLG	e PKPbc	Z	15:06:03.0	145.9	26.9					
BRG	e PKPbc	Z	15:06:05.5	146.7	39.0					
CLL	e PKPbc	Z	15:06:05.4	146.7	37.2					
CLZ	e PKPbc	Z	15:06:07.1	147.2	32.6					
IBBN	e PKPbc	Z	15:06:08.1	147.6	28.0					
TANN	e PKPbc	Z	15:06:08.2	147.6	37.2					
WERD	e PKPbc	Z	15:06:07.8	147.7	36.9					
MOX	e PKPbc	Z	15:06:08.1	147.8	35.6					
WERN	e PKPbc	Z	15:06:08.8	147.8	37.2					
UBBA	e PKPbc	Z	15:06:09.4	148.2	32.9					
ROTZ	e PKPbc	Z	15:06:09.5	148.3	37.4					
GEC2	e PKPbc	Z	15:06:10.3	148.4	40.7					
WET	e PKPbc	Z	15:06:09.8	148.5	39.1					
BUG	e PKPbc	Z	15:06:10.6	148.5	27.8					
GRA1	e PKPbc	Z	15:06:11.6	148.7	35.9					
	e SS	T	15:28:50.8							
	e SSS	T	15:34:08.7							
	e L	Z	16:11:30.2			21.6	3332		6.1	
TNS	e PKPbc	Z	15:06:12.3	149.2	30.8					
FUR	e PKPbc	Z	15:06:14.3	149.9	37.5					
STU	e PKPbc	Z	15:06:15.0	150.2	33.4					

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WLF	e	PKPbc	Z	15:06:16.2	150.4	27.3
BFO	e	PKPbc	Z	15:06:16.2	150.9	32.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/27	15:30:7.2	20.610S	177.830W	33.0G				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	15:49:43.7	146.1	13.8			
CLZ	e	PKPbc	Z	15:49:49.6	148.1	14.6			
	e	PKPab	Z	15:49:51.9					
CLL	e	PKPbc	Z	15:49:49.4	148.2	19.5			
BRG	e	PKPbc	Z	15:49:50.2	148.4	21.3			
	e	PKPab	Z	15:49:53.6					
MOX	e	PKPbc	Z	15:49:51.7	149.1	17.4			
TANN	e	PKPbc	Z	15:49:52.1	149.1	19.0			
WERD	e	PKPbc	Z	15:49:52.1	149.1	18.7			
GUNZ	e	PKPbc	Z	15:49:52.5	149.2	18.8			
	e	PKPab	Z	15:49:57.2					
WERN	e	PKPab	Z	15:49:57.4	149.2	18.9			
ROTZ	e	PKPbc	Z	15:49:54.0	149.8	18.9			
TNS	e	PKPab	Z	15:49:59.5	150.0	11.8			
GRA1	e	PKPab	Z	15:50:00.0	150.0	17.2			
GEC2	e	PKPbc	Z	15:49:54.9	150.3	22.2			
WLF	e	PKPbc	Z	15:49:56.5	150.8	7.7			
BFO	e	PKPbc	Z	15:49:58.2	151.8	12.3			
	e	PKPab	Z	15:50:07.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	00:20:49.4	44.652N	130.243W	33.0N	4.8			SZGRF

Off coast of Oregon, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e	P	Z	00:32:51.2	79.1	333.4	1.5	15	4.8
BRG	e	P	Z	00:32:53.7	79.6	335.0	1.5	19	4.8
GRA1	e	P	Z	00:32:55.1	79.9	333.2	1.3	21	4.9
BFO	e	P	Z	00:32:55.9	80.2	331.5	1.4	17	4.9
WET	e	P	Z	00:33:00.2	80.8	334.4	1.5	10	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	00:30:43.8	44.520N	129.994W	33.0N	5.0			SZGRF

Off coast of Oregon, United States

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:42:47.5	79.9	333.0	1.5	30	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	00:48:22.7	21.815N	92.853E	33.0N	5.1			SZGRF
Myanmar-Bangladesh border region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	00:59:08.0	66.3	84.6	1.8	55	5.5		
BRG	e P	Z	00:59:08.9	66.4	84.0	1.4	11	4.9		
FBE	e P	Z	00:59:12.2	66.7	83.6	1.4	26	5.2		
GEC2	e P	Z	00:59:11.4	66.7	82.9	1.1	9	4.9		
WET	e P	Z	00:59:14.0	67.2	82.5	1.1	6	4.8		
TANN	e P	Z	00:59:15.3	67.3	82.7	1.0	7	4.8		
WERN	e P	Z	00:59:15.0	67.4	82.6	1.7	16	5.0		
GUNZ	e P	Z	00:59:15.6	67.4	82.6	1.4	19	5.1		
WERD	e P	Z	00:59:15.6	67.4	82.6	1.2	10	4.9		
ROTZ	e P	Z	00:59:17.1	67.6	82.2	1.2	14	5.1		
MOX	e P	Z	00:59:18.2	67.9	82.2	1.3	12	5.0		
GRA1	e P	Z	00:59:20.5	68.2	81.5	2.0	66	5.5		
	e L	Z	01:19:45.9			18.1	416			
CLZ	e P	Z	00:59:21.7	68.5	81.7	1.4	26	5.3		
STU	e P	Z	00:59:29.9	69.7	79.7	1.1	19	5.1		
WLF	e P	Z	00:59:41.9	71.5	77.8	1.2	29	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	08:55: 8.5	33.170N	139.330E	33.0N	5.4			SZGRF
Southeast of Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	09:07:27.6	82.1	43.4	1.0	36	5.4		
BSEG	e P	Z	09:07:29.3	82.4	41.0	1.1	20	5.3		
BRG	e P	Z	09:07:33.1	83.2	43.4	0.9	16	5.3		
CLL	e P	Z	09:07:33.3	83.3	42.8	1.0	41	5.6		
CLZ	e P	Z	09:07:37.5	84.0	40.9	1.1	47	5.6		
TANN	e P	Z	09:07:38.2	84.2	42.3	1.1	17	5.2		
WERD	e P	Z	09:07:38.4	84.2	42.2	1.1	27	5.4		
GUNZ	e P	Z	09:07:38.7	84.3	42.2	0.9	39	5.6		
WERN	e P	Z	09:07:39.0	84.3	42.2	1.0	41	5.6		
MOX	e P	Z	09:07:39.1	84.4	41.7	1.3	34	5.4		
IBBN	e P	Z	09:07:40.6	84.6	39.0	0.9	28	5.5		
ROTZ	e P	Z	09:07:41.7	84.8	42.1	1.5	66	5.7		
GEC2	e P	Z	09:07:40.9	84.8	43.1	0.9	25	5.5		
UBBA	e P	Z	09:07:41.8	84.9	40.5	1.0	14	5.1		
WET	e P	Z	09:07:42.0	84.9	42.5	0.9	17	5.3		

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GRA1	e P	Z	09:07:44.0	85.2	41.4	0.9	52	5.7
GRFO	e P	Z	09:07:44.0	85.2	41.4	0.9	47	5.6
BUG	e P	Z	09:07:44.6	85.5	38.6	0.9	21	5.3
TNS	e P	Z	09:07:47.3	86.0	39.4	1.5	29	5.2
FUR	e P	Z	09:07:49.1	86.4	41.3	1.0	55	5.6
STU	e P	Z	09:07:51.1	86.8	39.9	0.4	28	5.7
WLF	e P	Z	09:07:54.2	87.3	37.7	1.9	75	5.7
BFO	e P	Z	09:07:54.3	87.5	39.2	0.9	7	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	08:53:18.3	14.993S	174.403W	329.1				SZGRF
Samoa Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	09:12:08.4	142.6	3.4					
CLZ	e PKPbc	Z	09:12:09.3	143.0	7.7					
CLL	e PKPbc	Z	09:12:09.9	143.2	12.0					
BRG	e PKPbc	Z	09:12:11.0	143.5	13.6					
BUG	e PKPbc	Z	09:12:11.4	143.5	2.7					
UBBA	e PKPbc	Z	09:12:12.8	144.0	7.2					
MOX	e PKPbc	Z	09:12:13.0	144.0	9.9					
WERD	e PKPbc	Z	09:12:13.4	144.1	11.1					
TANN	e PKPbc	Z	09:12:13.5	144.1	11.4					
WERN	e PKPbc	Z	09:12:14.0	144.3	11.3					
TNS	e pPKPbc	Z	09:13:36.7	144.7	4.8					
ROTZ	e PKPbc	Z	09:12:15.9	144.8	11.1					
	e pPKPbc	Z	09:13:36.5							
GRA1	e PKPpdf	Z	09:12:15.2	145.0	9.5					
	e pPKPbc	Z	09:13:37.1							
WLF	e PKPbc	Z	09:12:18.2	145.3	0.9					
	e pPKPbc	Z	09:13:38.5							
WET	e PKPpdf	Z	09:12:15.3	145.3	12.4					
GEC2	e PKPpdf	Z	09:12:15.4	145.5	13.9					
	e PKPbc	Z	09:12:17.8							
	e pPKPbc	Z	09:13:38.3							
STU	e PKPpdf	Z	09:12:17.2	146.1	6.2					
	e PKPbc	Z	09:12:19.6							
	e pPKPbc	Z	09:13:40.0							
FUR	e PKPpdf	Z	09:12:17.9	146.5	10.0					
	e PKPbc	Z	09:12:20.6							
BFO	e PKPpdf	Z	09:12:17.4	146.6	4.8					
	e PKPbc	Z	09:12:20.9							
	e pPKPbc	Z	09:13:41.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/07/28 13:45:25.3
Guerrero, Mexico

18.126N

101.275W

81.7

5.1

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	13:58:01.8	87.0	294.8	1.0	26	5.3		
	e pP	Z	13:58:24.4							
BSEG	e P	Z	13:58:03.6	87.4	297.8	1.0	23	5.5		
TNS	e pP	Z	13:58:28.6	88.1	296.5					
CLZ	e P	Z	13:58:08.6	88.4	297.9	1.2	21	5.2		
	e pP	Z	13:58:30.6							
UBBA	e P	Z	13:58:09.8	88.7	297.6	0.9	5	4.8		
BFO	e pP	Z	13:58:31.9	88.8	296.4					
GRA1	e P	Z	13:58:15.1	89.9	298.6	1.6	28	5.3		
	e pP	Z	13:58:37.8							
CLL	e P	Z	13:58:15.4	90.1	300.0	2.0	22	5.1		
TANN	e P	Z	13:58:16.6	90.2	299.5	1.7	23	5.1		
	e pP	Z	13:58:38.3							
ROTZ	e P	Z	13:58:18.3	90.4	299.3	1.5	14	5.0		
	e pP	Z	13:58:39.6							
BRG	e P	Z	13:58:19.4	90.8	300.7	1.3	11	5.0		
	e pP	Z	13:58:41.5							
WET	e P	Z	13:58:21.0	91.1	299.9	1.2	9	5.0		
	e pP	Z	13:58:43.3							
GEC2	e P	Z	13:58:23.6	91.7	300.5	1.0	4	4.7		
	e pP	Z	13:58:45.5							

Date Origin Time
2007/07/28 15:23:19.7
Easter Island region

Lat 26.700S

Long 114.600W

Depth 10.0

mb

Ms 5.0

ML

Source
NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e PKPdf	Z	15:42:32.8	131.1	276.6					
BSEG	e PKPdf	Z	15:42:33.5	131.6	281.5					
GRA1	e PKPdf	Z	15:42:36.9	132.9	278.5					
	e L	Z	16:37:21.3			21.6	348		5.0	
MOX	e PKPdf	Z	15:42:35.4	133.0	279.7					
TANN	e PKPdf	Z	15:42:37.8	133.6	280.2					
CLL	e PKPdf	Z	15:42:38.0	133.7	281.5					
WET	e PKPdf	Z	15:42:37.9	134.1	279.4					
BRG	e PKPdf	Z	15:42:38.3	134.4	282.0					
GEC2	e PKPdf	Z	15:42:38.7	134.6	279.8					

Date Origin Time
2007/07/28 20:17: 1.6
South of Kermadec Islands

Lat 33.847S

Long 178.198W

Depth 33.0N

mb

Ms

ML

Source
GSRC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPab	Z	20:37:41.5	160.7	29.3					
BRG	e PKPab	Z	20:37:40.8	160.8	32.1					
FBE	e PKPab	Z	20:37:43.3	161.0	30.7					
TANN	e PKPab	Z	20:37:45.2	161.7	29.3					
WERD	e PKPab	Z	20:37:45.7	161.7	28.8					
GUNZ	e PKPab	Z	20:37:46.3	161.8	29.0					
WERN	e PKPab	Z	20:37:45.7	161.8	29.2					
ROTZ	e PKPab	Z	20:37:47.9	162.3	29.6					
GEC2	e PKPab	Z	20:37:48.7	162.6	34.9					
GRA1	e PKPab	Z	20:37:50.0	162.7	27.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	21:12:18.6	2.436N	95.029E	33.0N	4.5			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:24:46.8	84.1	93.2	1.0	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/28	22:01:18.8	16.683S	176.354W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	22:20:49.6	144.2	6.7					
CLZ	e PKPbc	Z	22:20:50.3	144.4	11.1					
CLL	e PKPbc	Z	22:20:50.2	144.6	15.6					
BRG	e PKPbc	Z	22:20:51.3	144.8	17.3					
BUG	e PKPbc	Z	22:20:52.4	145.1	6.1					
MOX	e PKPbc	Z	22:20:53.4	145.4	13.5					
UBBA	e PKPbc	Z	22:20:53.6	145.5	10.8					
TANN	e PKPbc	Z	22:20:53.7	145.5	15.0					
ROTZ	e PKPbc	Z	22:20:56.0	146.2	14.9					
TNS	e PKPbc	Z	22:20:56.0	146.2	8.3					
GRA1	e PKPbc	Z	22:20:56.0	146.4	13.2					
WET	e PKPbc	Z	22:20:57.3	146.7	16.2					
GEC2	e PKPbc	Z	22:20:57.3	146.8	17.8					
WLF	e PKPbc	Z	22:20:58.6	147.0	4.4					
STU	e PKPbc	Z	22:20:59.7	147.6	10.0					
FUR	e PKPbc	Z	22:21:00.3	147.9	13.8					
BFO	e PKPbc	Z	22:21:01.0	148.1	8.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/29	04:54:45.5	54.818N	170.570E	31.9	6.0	5.4		SZGRF

Near Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	+ Z	05:05:48.7	69.0	13.8	1.0	459	6.7		
	e L	Z	05:37:33.0			21.8	3064			
BSEG	i P	+ Z	05:05:54.6	70.0	12.0	1.1	147	6.0		
	e S	T	05:15:11.7							
HLG	e L	Z	05:37:44.1	70.1	10.5	21.0	2143			5.4
	e L	Z	05:35:54.2			21.9	1777			5.3
RUE	i P	+ Z	05:06:00.0	71.0	13.9	1.2	218	6.2		
	e S	T	05:15:20.9							
IBBN	e L	Z	05:37:21.9	71.9	10.3	21.2	2117	6.2		5.4
	i P	+ Z	05:06:06.0			1.1	242			
CLZ	e S	T	05:15:32.6	72.1	11.8	21.4	1844	6.2		5.3
	e L	Z	05:37:14.5							
CLL	i P	+ Z	05:06:06.9	72.2	13.3	1.2	226	6.2		
	e S	T	05:15:34.3							
BRG	e L	Z	05:39:08.0	72.5	13.9	21.6	2810	6.0		5.5
	i P	+ Z	05:06:06.9			1.3	183			
FBE	e S	T	05:15:34.3	72.6	13.5	20.0	2066	6.0		5.4
	e L	Z	05:40:00.9			1.2	149			
BUG	i P	+ Z	05:06:08.8	72.8	10.0	1.2	149	6.0		
	e S	T	05:15:36.9							
MOX	e L	Z	05:38:30.9	73.1	12.5	21.1	2179	6.0		5.4
	i P	+ Z	05:06:10.5			1.3	293			6.3
UBBA	i P	+ Z	05:06:10.9	73.1	11.6	1.3	106	5.8		
	e S	T	05:15:43.1							
WERD	e L	Z	05:44:52.2	73.1	11.6	18.1	2279	6.0		5.5
	i P	+ Z	05:06:12.4			1.2	136			
TANN	e S	T	05:15:45.0	73.2	12.9	20.3	2190	5.8		
	e L	Z	05:42:51.2							
GUNZ	i P	+ Z	05:06:12.3	73.2	13.0	1.6	139	5.8		
	e S	T	05:15:45.4							
WERN	e L	Z	05:39:49.0	73.2	12.9	21.8	2277	6.0		5.4
	i P	+ Z	05:06:13.1			1.2	183			
ROTZ	i P	+ Z	05:06:13.1	73.2	13.0	1.4	159	5.9		
	e S	T	05:15:46.1							
TNS	e L	Z	05:40:28.2	73.3	12.9	20.8	2062	6.0		5.4
	i P	+ Z	05:06:13.7			1.3	209			
GRA1	i P	+ Z	05:06:14.1	73.3	12.9	1.1	224	6.1		
	e S	T	05:15:53.9							
GRA1	i P	+ Z	05:06:17.2	73.9	12.8	1.2	168	5.9		
	e S	T	05:15:53.9							
GRA1	e L	Z	05:46:15.1	73.9	10.6	18.2	2089	5.7		5.5
	i P	+ Z	05:06:17.2			1.4	100			
GRA1	e S	T	05:15:53.7	74.1	12.2	20.4	2878	6.1		
	e L	Z	05:41:54.1							
GRA1	i P	+ Z	05:06:18.6	74.1	12.2	1.2	232	6.1		
	e P	Z	05:06:18.6							

	e pP	Z	05:06:27.7								
	e PP	Z	05:09:07.2								
	e S	T	05:15:57.1								
	e L	Z	05:43:19.6			21.4	1628		5.3		
GRFO	i P	+ Z	05:06:18.7	74.1	12.2	1.2	216	6.0			
	e L	Z	05:43:19.6			21.5	1551		5.3		
WET	i P	+ Z	05:06:20.3	74.4	13.1	1.1	182	6.0			
	e S	T	05:15:59.8								
	e L	Z	05:41:44.1			19.6	2259		5.5		
GEC2	i P	+ Z	05:06:20.9	74.5	13.6	1.1	167	6.0			
	e S	T	05:16:01.5								
	e L	Z	05:40:59.5			21.4	2663		5.5		
WLF	i P	+ Z	05:06:22.2	74.7	9.2	1.4	106	5.7			
	e S	T	05:16:05.4								
	e L	Z	05:45:42.1			19.2	2894		5.6		
STU	i P	+ Z	05:06:24.8	75.2	11.0	1.3	90	5.7			
	e S	T	05:16:07.5								
	e L	Z	05:39:42.2			21.6	2409		5.5		
FUR	i P	+ Z	05:06:26.7	75.6	12.1	1.3	165	6.0			
	e L	Z	05:47:17.0			18.3	2288		5.5		
BFO	i P	+ Z	05:06:27.8	75.8	10.4	1.4	114	5.8			
	e S	T	05:16:14.2								
	e L	Z	05:39:57.2			21.9	2566		5.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/29 12:58:41.1 16.900S 167.600E 76.0 NEIC
 Vanuatu Islands

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z 13:18:01.6	142.1	38.6					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/29 17:24:46.9 17.000S 167.100E 36.0 NEIC
 Vanuatu Islands

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e PKPdf	Z 17:44:10.0	138.9	35.0					
	CLL	e PKPdf	Z 17:44:11.0	140.0	40.5					
	WET	e PKPdf	Z 17:44:15.0	141.7	42.1					
	GRA1	e PKPdf	Z 17:44:13.1	142.0	39.4					
		e	17:44:18.3							
	WLF	e PKPdf	Z 17:44:17.7	143.9	32.0					
	BFO	e PKPdf	Z 17:44:18.3	144.2	36.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/29	22:36: 9.6	47.284N	152.614E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	22:47:50.1	75.5	27.0	1.0	9	4.9		
CLZ	e P	Z	22:47:52.3	75.7	25.4	1.0	11	5.0		
TANN	e P	Z	22:47:55.7	76.4	26.6	1.9	9	4.6		
MOX	e P	Z	22:47:56.0	76.5	26.0	1.0	6	4.7		
UBBA	e P	Z	22:47:57.4	76.8	25.0	1.8	21	5.0		
ROTZ	e P	Z	22:47:59.9	77.1	26.3	1.0	4	4.5		
GRA1	e P	Z	22:48:02.0	77.4	25.7	0.9	9	4.9		
WET	e P	Z	22:48:02.0	77.5	26.7	1.2	7	4.7		
GEC2	e P	Z	22:48:01.4	77.5	27.2	1.5	9	4.7		
TNS	e P	Z	22:48:03.2	77.7	24.0	1.2	14	5.0		
BFO	e P	Z	22:48:12.5	79.5	23.8	1.7	20	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/30	00:34:51.5	75.460N	5.970E	33.0N	4.3			SZGRF

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
UBBA	e P	Z	00:40:12.4	24.7	357.6	1.9	24	4.6		
FBE	e P	Z	00:40:12.6	24.7	355.6	0.7	5	4.4		
BRG	e P	Z	00:40:12.2	24.8	355.2	1.1	4	4.1		
MOX	e P	Z	00:40:12.0	24.9	356.6	0.9	4	4.1		
WERD	e P	Z	00:40:14.9	25.1	356.3	1.3	11	4.4		
TANN	e P	Z	00:40:16.0	25.2	356.2	1.1	4	4.1		
GUNZ	e P	Z	00:40:16.2	25.2	356.3	1.1	7	4.3		
ROTZ	e P	Z	00:40:20.9	25.8	356.4	1.2	5	4.0		
GRA1	e P	Z	00:40:22.1	25.9	357.0	0.6	5	4.3		
WET	e P	Z	00:40:27.4	26.5	356.1	1.4	6	4.1		
GEC2	e P	Z	00:40:30.8	26.8	355.7	1.2	7	4.3		
FUR	e P	Z	00:40:35.7	27.4	357.1	1.4	20	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/30	06:20:30.4	45.440N	151.910E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	06:32:22.2	77.0	28.3	0.7	11	5.1		
BRG	e P	Z	06:32:22.7	77.1	28.8	0.8	5	4.7		
FBE	e P	Z	06:32:25.4	77.2	28.4					
CLZ	e P	Z	06:32:24.3	77.2	26.6	1.1	13	5.0		

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WERD	e P	Z	06:32:27.9	77.9	27.7				
MOX	e P	Z	06:32:27.6	78.0	27.3	1.0	8	4.8	
GUNZ	e P	Z	06:32:28.4	78.0	27.7				
WERN	e P	Z	06:32:28.6	78.1	27.7				
UBBA	e P	Z	06:32:30.4	78.3	26.2	1.3	9	4.7	
ROTZ	e P	Z	06:32:31.9	78.6	27.6	0.9	7	4.7	
WET	e P	Z	06:32:33.8	78.9	28.0	1.0	9	4.7	
GEC2	e P	Z	06:32:33.5	78.9	28.5	0.8	4	4.5	
GRA1	e P	Z	06:32:34.1	78.9	26.9	0.9	11	4.9	
BFO	e P	Z	06:32:44.3	81.0	24.9	1.0	7	4.6	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/30 19:03:2.2 45.042N 10.062E 10.0G 2.9 SZGRF
 Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	19:03:41.1	2.2	176.7					2.8
WTTA	e Pn	Z	19:03:43.9	2.5	206.7					2.8
BFO	e Pn	Z	19:03:56.2	3.5	159.5					3.0
	e Sn	E	19:04:35.6							
MOA	e Pn	Z	19:04:04.1	4.0	227.4					
ARSA	e Pn	Z	19:04:08.1	4.4	241.7					
WET	e Pn	Z	19:04:09.7	4.5	206.1					2.9
	e Sn	N	19:05:01.6							
GEC2	e Pn	Z	19:04:10.0	4.5	214.5					3.2
	e Sn	N	19:05:02.3							
TNS	e Pn	Z	19:04:20.9	5.3	167.5					
	e Sn	N	19:05:21.4							

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/07/30 19:05:42.6 45.033N 9.953E 10.0G 3.5 4.3 SZGRF
 Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pg	Z	19:06:23.7	2.3	178.7					4.3
	e Sg	E	19:06:53.5							
KBA	e Pn	Z	19:06:33.0	3.1	230.2					4.4
	e Sn	E	19:07:11.1							
BFO	e Pn	Z	19:06:37.9	3.5	160.7					4.5
	e Sn	E	19:07:17.6							
	e L	Z	19:08:25.9			14.8	2414		3.4	
MOA	e Pn	Z	19:06:45.9	4.1	228.1					
ARSA	e Pn	Z	19:06:49.4	4.4	242.2					4.0
WET	e Pn	Z	19:06:51.4	4.6	206.9					4.2
	e Sn	Z	19:07:43.1							

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GEC2	e Pn	Z	19:06:51.5	4.6	215.3					4.6
	e Sn	N	19:07:44.0							
	e L	Z	19:09:01.3			14.4	1279		3.3	
GRA1	e Pn	Z	19:06:53.1	4.7	190.9					4.4
	e Sn	N	19:07:45.2							
	e L	Z	19:09:14.1			14.8	2272		3.6	
ROTZ	e Pn	Z	19:06:56.2	5.0	198.7					
	e Sn	N	19:07:52.8							4.2
TNS	e Pn	Z	19:07:02.8	5.3	168.4					
	e Sn	E	19:08:02.5							
	e L	Z	19:09:32.3			14.7	2141			
WERN	e Pn	Z	19:07:03.7	5.5	198.2					
GUNZ	e Pn	Z	19:07:03.8	5.6	197.6					
TANN	e Pn	Z	19:07:05.3	5.6	198.3					
WERD	e Pn	Z	19:07:05.2	5.6	197.2					
MOX	e Pn	Z	19:07:06.0	5.7	191.9					
	e Sn	E	19:08:11.3							
BRG	e Pn	Z	19:07:16.6	6.4	206.1					
	e Sn	N	19:08:27.3							
CLL	e Pn	Z	19:07:18.5	6.6	199.1					

Date 2007/07/30 Origin Time 22:42: 6.4 Lat 18.750N Long 95.380E Depth 33.0N mb 6.2 Ms 5.5 ML Source SZGRF Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	22:53:17.0	70.2	84.7	1.1	516	6.6		
BRG	e P	Z	22:53:17.0	70.2	84.3	0.9	244	6.3		
	e PP	Z	22:55:52.3							
FBE	e P	Z	22:53:21.0	70.6	83.9					
GEC2	e P	Z	22:53:19.5	70.6	83.4	0.9	302	6.4		
CLL	e P	Z	22:53:20.0	70.8	83.7	1.1	173	6.1		
WET	e P	Z	22:53:22.6	71.1	82.9	1.0	212	6.2		
TANN	e P	Z	22:53:23.1	71.2	83.0	1.0	166	6.1		
WERN	e P	Z	22:53:23.7	71.3	82.9	1.0	171	6.1		
GUNZ	e P	Z	22:53:23.8	71.3	82.9	1.0	274	6.3		
WERD	e P	Z	22:53:23.5	71.3	82.9	0.9	200	6.2		
ROTZ	e P	Z	22:53:25.2	71.5	82.6	1.0	409	6.5		
MOX	e P	Z	22:53:26.1	71.7	82.5	1.0	179	6.1		
BSEG	e P	Z	22:53:28.5	72.1	82.6	1.1	293	6.3		
GRA1	e P	Z	22:53:29.1	72.1	81.9	1.2	319	6.3		
	e PP	Z	22:56:08.7							
	e S	R	23:02:49.4							
	e L	Z	23:29:16.6			20.9	2651		5.5	
FUR	e P	Z	22:53:29.5	72.3	81.4	0.9	266	6.4		
CLZ	e P	Z	22:53:30.0	72.3	81.9	1.1	265	6.3		
UBBA	e P	Z	22:53:32.0	72.7	81.3	1.5	190	6.0		

	e PP	Z	22:56:14.5						
STU	e P	Z	22:53:37.2	73.5	80.1	1.0	303	6.3	
TNS	e P	Z	22:53:38.6	73.8	80.0	1.0	204	6.1	
IBBN	e P	Z	22:53:38.8	73.8	80.1	1.1	185	6.0	
BFO	e P	Z	22:53:40.5	74.2	79.4	1.0	99	5.8	
BUG	e P	Z	22:53:41.4	74.3	79.5	1.0	181	6.0	
WLF	e P	Z	22:53:48.3	75.3	78.2	1.1	434	6.4	
	e PP	Z	22:56:37.4						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/30	23:36:50.2	18.420S	178.910W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 23:56:25.5	145.7	11.3					
CLL	e PKPbc	Z 23:56:25.2	145.8	20.4					
BRG	e PKPbc	Z 23:56:26.1	146.0	22.2					
TANN	e PKPbc	Z 23:56:28.5	146.7	19.9					
WERD	e PKPbc	Z 23:56:28.5	146.7	19.7					
GUNZ	e PKPbc	Z 23:56:28.8	146.8	19.8					
WERN	e PKPbc	Z 23:56:29.4	146.9	19.9					
TNS	e PKPbc	Z 23:56:31.3	147.7	13.1					
	e PKPab	Z 23:56:33.8							
GRA1	e PKPbc	Z 23:56:31.8	147.7	18.2					
WET	e PKPab	Z 23:56:34.9	147.8	21.4					
WLF	e PKPbc	Z 23:56:33.4	148.5	9.2					
STU	e PKPab	Z 23:56:38.5	148.9	15.0					
FUR	e PKPbc	Z 23:56:34.9	149.1	19.1					
BFO	e PKPbc	Z 23:56:35.7	149.5	13.6					
	e PKPab	Z 23:56:40.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31	02:34:12.3	17.630N	96.705E	33.0N	4.6	4.4		SZGRF
Myanmar								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:45:43.7	73.8	81.7	0.9	6	4.6		
	e L	Z 03:11:29.6			21.2	220		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31	02:47: 2.3	40.540N	73.810E	16.0	4.9	3.9		SZGRF
Kyrgyzstan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:54:52.8	41.8	80.1	1.5	49	5.0		
CLL	e P	Z 02:54:57.9	42.4	80.0	1.5	35	4.9		
GEC2	e P	Z 02:54:56.9	42.4	77.8	1.7	40	4.9		
WET	e P	Z 02:55:00.5	42.8	77.6	1.7	35	4.8		
TANN	e P	Z 02:55:01.9	42.9	78.7	1.5	29	4.8		
ROTZ	e P	Z 02:55:03.4	43.1	77.9	1.5	21	4.7		
MOX	e P	Z 02:55:04.6	43.3	78.4	1.4	24	4.7		
BSEG	e P	Z 02:55:05.0	43.5	80.9	1.1	22	4.8		
GRA1	e P	Z 02:55:07.8	43.8	77.2	1.5	72	5.2		
	e pP	Z 02:55:12.1							
	e S	R 03:01:38.3							
	e L	Z 03:40:02.9			21.9	183		3.9	
CLZ	e P	Z 02:55:08.6	43.9	78.8	0.9	15	4.7		
FUR	e P	Z 02:55:10.3	44.1	75.7	1.9	94	5.2		
STU	e P	Z 02:55:20.9	45.3	75.0	1.0	20	5.0		
IBBN	e P	Z 02:55:22.1	45.3	77.6	1.4	83	5.5		
TNS	e P	Z 02:55:21.7	45.4	76.0	1.4	18	4.9		
BFO	e P	Z 02:55:25.0	46.0	74.1	1.3	16	4.9		
WLF	e P	Z 02:55:34.5	47.0	74.1	1.2	21	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:17:21.5							
FBE	e P	Z 04:17:25.3							
GEC2	e P	Z 04:17:23.7							
ROTZ	e P	Z 04:17:29.8							
WET	e P	Z 04:17:27.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31	08:43:51.2	19.940N	94.830E	33.0N	5.5	4.5		SZGRF
Myanmar								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 08:54:54.2	69.0	83.9	1.4	64	5.7		
GEC2	e P	Z 08:54:56.8	69.4	82.9	1.1	52	5.7		
CLL	e P	Z 08:54:57.0	69.5	83.3	1.1	27	5.3		
WET	e P	Z 08:55:00.2	69.9	82.4	1.0	35	5.4		
TANN	e P	Z 08:55:00.5	70.0	82.6	1.0	23	5.2		
ROTZ	e P	Z 08:55:02.4	70.2	82.2	1.2	67	5.7		
MOX	e P	Z 08:55:03.6	70.5	82.0	1.0	19	5.2		
BSEG	e P	Z 08:55:06.1	70.8	82.2	1.3	68	5.6		
GRA1	e P	Z 08:55:06.6	70.9	81.4	1.3	66	5.6		

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	e L	Z	09:30:53.2			21.3	312		4.5
CLZ	e P	Z	08:55:07.5	71.1	81.5	1.3	52	5.5	
UBBA	e P	Z	08:55:09.2	71.5	80.9	1.5	44	5.4	
STU	e P	Z	08:55:15.0	72.3	79.7	1.4	91	5.7	
BFO	e P	Z	08:55:18.2	73.0	78.9	1.1	16	5.1	
BUG	e P	Z	08:55:19.0	73.0	79.1	1.4	52	5.5	
WLF	e P	Z	08:55:25.0	74.1	77.7	1.3	72	5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31	12:58:35.6	29.380N	139.820E	554.2	5.3			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	13:10:18.6	86.0	42.4	0.7	16	5.2		
	e pP	Z	13:12:18.5							
BRG	e P	Z	13:10:21.6	86.7	45.0	0.7	12	5.1		
	e pP	Z	13:12:22.4							
	e PP	Z	13:13:54.0							
CLL	e P	Z	13:10:22.0	86.8	44.3	0.7	14	5.2		
	e pP	Z	13:12:22.2							
CLZ	e P	Z	13:10:26.0	87.5	42.3	0.8	8	5.1		
	e PP	Z	13:14:01.1							
TANN	e P	Z	13:10:26.5	87.6	43.9	1.5	20	5.2		
MOX	e P	Z	13:10:27.1	87.8	43.3	1.7	25	5.3		
	e PP	Z	13:14:05.5							
GEC2	e P	Z	13:10:28.7	88.2	44.8	1.0	10	5.0		
	e PP	Z	13:14:06.5							
IBBN	e P	Z	13:10:29.1	88.2	40.3	0.7	35	5.7		
ROTZ	e P	Z	13:10:29.4	88.2	43.7	1.6	39	5.4		
	e pP	Z	13:12:30.9							
WET	e P	Z	13:10:30.1	88.4	44.2	1.0	6	4.7		
GRA1	e P	Z	13:10:31.5	88.7	42.9	1.4	57	5.6		
	e pP	Z	13:12:33.3							
BUG	e P	Z	13:10:32.6	89.1	39.9	1.5	44	5.5		
TNS	e P	Z	13:10:35.3	89.5	40.8	0.9	8	5.0		
	e pP	Z	13:12:37.8							
FUR	e P	Z	13:10:36.9	89.8	43.0	0.5	38	5.9		
STU	e P	Z	13:10:38.8	90.3	41.4	1.0	30	5.6		
WLF	e P	Z	13:10:42.1	90.9	39.1	1.3	40	5.6		
BFO	e P	Z	13:10:41.9	91.0	40.8	1.1	23	5.4		
	e PP	Z	13:14:28.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31	15:07:44.9	27.850N	127.150E	68.0	5.8	6.5		SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:19:57.8	81.8	52.9	1.6	110	5.7		
	e pP	Z	15:20:16.6							
	e PP	Z	15:23:10.1							
BRG	e P	Z	15:19:57.5	81.8	55.2	1.7	73	5.5		
	e PP	Z	15:23:08.6							
CLL	e P	Z	15:19:58.7	82.0	54.6	1.3	47	5.5		
TANN	e P	Z	15:20:02.9	82.8	54.1	1.8	70	5.6		
	e PP	Z	15:23:12.5							
CLZ	e P	Z	15:20:04.7	83.0	52.7	1.7	180	6.0		
	e pP	Z	15:20:23.3							
GEC2	e P	Z	15:20:04.6	83.1	54.8	1.6	40	5.4		
MOX	e P	Z	15:20:04.7	83.1	53.5	1.9	109	5.8		
	e PP	Z	15:23:18.3							
	e P	Z	15:20:05.9							
ROTZ	e P	Z	15:20:05.9	83.4	53.8	1.7	93	5.8		
	e pP	Z	15:20:24.5							
	e PP	Z	15:23:18.6							
WET	e P	Z	15:20:05.7	83.4	54.2	2.0	98	5.7		
	e pP	Z	15:20:24.3							
	e PP	Z	15:23:18.3							
UBBA	e P	Z	15:20:07.9	83.8	52.3	2.0	147	5.9		
	e PP	Z	15:23:19.7							
GRA1	e P	Z	15:20:09.2	83.9	53.1	1.8	227	6.1		
	e pP	Z	15:20:27.4							
	e PP	Z	15:23:23.2							
	e S	R	15:30:29.9							
	e SS	R	15:36:10.2							
	e L	Z	16:00:49.6							
IBBN	e P	Z	15:20:09.2	84.0	50.8	2.0	243	6.1		
BUG	e P	Z	15:20:12.9	84.8	50.3	1.6	74	5.7		
	e PP	Z	15:23:31.8							
FUR	e P	Z	15:20:13.3	84.8	53.0	1.9	338	6.3		
TNS	e PP	Z	15:23:34.0	85.0	51.1					
STU	e P	Z	15:20:16.5	85.5	51.6					
BFO	e P	Z	15:20:19.6	86.2	50.9	1.6	63	5.5		
	e pP	Z	15:20:38.4							
WLF	e P	Z	15:20:21.7	86.5	49.4					
	e pP	Z	15:20:40.9							

Date 2007/07/31 Origin Time 21:09:59.9 Lat 1.380N Long 34.590E Depth 33.0N mb 4.6 Ms ML Source SZGRF Uganda

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	21:18:55.1	50.7	152.6	1.1	12	4.7		
WET	e P	Z	21:18:59.3	51.3	151.7	1.2	6	4.4		

ROTZ	e P	Z	21:19:03.7	52.0	151.1	1.2	8	4.5
BFO	e P	Z	21:19:06.0	52.1	145.9	1.3	8	4.5
GRA1	e P	Z	21:19:05.8	52.3	149.9	1.9	37	5.0
TANN	e P	Z	21:19:07.9	52.5	151.7	1.7	12	4.5
MOX	e P	Z	21:19:11.9	53.0	150.7	1.2	5	4.4
CLL	e P	Z	21:19:13.2	53.1	152.6	1.2	6	4.4
UBBA	e P	Z	21:19:16.3	53.6	148.9	1.7	17	4.7
TNS	e P	Z	21:19:16.4	53.7	146.8	1.6	23	5.0
CLZ	e P	Z	21:19:22.5	54.4	149.7	1.2	4	4.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31	22:55:36.5	0.080N	17.360W	33.0N	5.7	5.4		SZGRF
North of Ascension Island								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	23:04:49.8	53.1	212.8	1.4	116	5.6		
WLF	e P	Z	23:04:52.9	53.5	209.7	1.6	115	5.6		
STU	e P	Z	23:04:54.4	53.8	213.6	1.1	56	5.5		
FUR	e P	Z	23:04:57.0	54.1	216.3	1.4	288	6.1		
TNS	e P	Z	23:05:01.8	54.8	212.2	1.9	222	5.9		
	e PP	Z	23:07:03.4							
GRA1	e P	Z	23:05:05.6	55.3	215.6	2.0	219	5.8		
	e S	R	23:12:48.9							
	e ScS	T	23:15:01.3							
	e SSS	T	23:18:38.6							
	e L	Z	23:22:59.7			39.9	6077		5.4	
BUG	e P	Z	23:05:06.5	55.4	210.4	1.5	95	5.6		
WET	e P	Z	23:05:07.2	55.5	217.7	1.3	145	5.8		
GEC2	e P	Z	23:05:08.1	55.6	218.7	1.8	249	5.9		
	e PP	Z	23:07:10.8							
ROTZ	e P	Z	23:05:08.9	55.7	216.7	1.8	150	5.7		
UBBA	e P	Z	23:05:09.4	55.8	213.8	1.7	140	5.7		
WERN	e P	Z	23:05:12.3	56.2	216.6	1.6	112	5.7		
MOX	e P	Z	23:05:12.4	56.2	215.6	1.9	211	5.8		
GUNZ	e P	Z	23:05:12.6	56.3	216.6	1.7	121	5.7		
IBBN	e P	Z	23:05:13.0	56.3	210.7	1.6	128	5.7		
WERD	e P	Z	23:05:12.9	56.3	216.5	1.6	116	5.6		
TANN	e P	Z	23:05:13.2	56.4	216.7	1.9	175	5.8		
CLZ	e P	Z	23:05:16.3	56.8	213.8	1.9	78	5.4		
FBE	e P	Z	23:05:20.3	57.1	217.5					
CLL	e P	Z	23:05:19.7	57.3	216.9	1.5	87	5.6		
BRG	e P	Z	23:05:19.7	57.3	218.1	1.5	106	5.7		
BSEG	e P	Z	23:05:28.1	58.5	213.0	1.3	120	5.8		
RUE	e P	Z	23:05:28.5	58.5	217.3	1.2	116	5.8		
RGN	e P	Z	23:05:39.0	60.0	216.1	1.5	371	6.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/07/31								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e P	Z 23:51:34.7					

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