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

(produced by SZGRF/BGR - ERLANGEN)

August 2008 UPDATED 09.DECEMBER.2008

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

(Format desciption at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/01	01:29:30.7	41.690N	71.720E	33.0G	4.7	4.0		SZGRF

Kyrgyzstan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:37:03.1	39.9	80.1	1.2	11	4.4		
CLL	e P	Z	01:37:06.8	40.4	79.9	0.9	11	4.6		
GEC2	e P	Z	01:37:07.6	40.4	77.5	3.0	189	5.3		
TANN	e P	Z	01:37:11.3	40.9	78.6	1.1	9	4.4		
WET	e P	Z	01:37:11.2	40.9	77.4	1.1	13	4.6		
WERD	e P	Z	01:37:11.8	41.0	78.5	1.2	13	4.5		
GUNZ	e P	Z	01:37:12.2	41.0	78.4	1.1	9	4.4		
MOX	e P	Z	01:37:15.1	41.4	78.3	1.1	10	4.5		
BSEG	e P	Z	01:37:17.4	41.6	81.1	0.9	22	4.9		
GRA1	e P	Z	01:37:19.6	41.8	77.0	1.0	28	5.0		
	e L	Z	01:55:37.6			21.2	225		4.0	
CLZ	e P	Z	01:37:19.9	41.9	78.8	1.6	22	4.6		
NRDL	e P	Z	01:37:19.0	41.9	79.4	1.0	17	4.7		
FUR	e P	Z	01:37:22.0	42.2	75.4	0.9	17	4.8		
STU	e P	Z	01:37:31.2	43.3	74.9	1.0	12	4.6		
IBBN	e P	Z	01:37:31.8	43.4	77.6	1.1	24	4.8		
BUG	e P	Z	01:37:35.9	43.9	76.4	1.4	30	4.8		
BFO	e P	Z	01:37:36.2	44.0	73.9	1.9	39	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/01	02:21:41.9	13.569N	118.583E	71.0G	5.2	5.0		NEIC

Philippine Islands region

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

RUE	e P	Z	02:34:24.3	88.0	70.1	2.3	102	5.8	
BRG	e P	Z	02:34:26.6	88.5	70.2	1.6	22	5.1	
CLL	e P	Z	02:34:28.3	88.9	69.5	1.5	15	5.0	
	e PP	Z	02:38:01.3						
GEC2	e P	Z	02:34:30.4	89.3	70.0	1.3	7	4.7	
	e PP	Z	02:38:02.8						
TANN	e P	Z	02:34:31.5	89.5	69.1	1.6	12	4.9	
	e PP	Z	02:38:06.5						
WERD	e P	Z	02:34:32.1	89.6	68.9	2.3	42	5.3	
	e PP	Z	02:38:07.1						
GUNZ	e P	Z	02:34:31.9	89.6	69.0	1.2	10	4.9	
WET	e P	Z	02:34:32.9	89.7	69.4	1.9	16	5.0	
MOX	e P	Z	02:34:33.3	89.9	68.4	1.6	14	4.9	
CLZ	e P	Z	02:34:35.0	90.2	67.4	2.0	55	5.4	
GRA1	e P	Z	02:34:36.7	90.5	68.1	1.3	17	5.2	
	e L	Z	03:17:24.2			20.7	632		5.0
STU	e P	Z	02:34:43.6	92.1	66.6	2.1	44	5.4	
BFO	e P	Z	02:34:46.5	92.8	65.9	2.3	39	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/01	08:32:43.7	31.904N	104.519E	33.0G	6.2	6.6		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	08:43:29.0	65.6	68.7	1.9	606	6.5		
	e S	T	08:52:14.0							
BRG	e P	Z	08:43:32.2	66.1	68.2	1.2	129	6.0		
	e S	T	08:52:20.7							
CLL	e P	Z	08:43:34.3	66.5	67.7	1.6	251	6.2		
	e S	T	08:52:24.8							
BSEG	e P	Z	08:43:38.2	67.0	66.9	1.2	240	6.3		
	e S	T	08:52:32.4							
GEC2	e P	Z	08:43:38.2	67.0	67.2	1.8	254	6.1		
	e S	T	08:52:33.7							
TANN	e P	Z	08:43:38.9	67.2	67.0	1.3	124	6.0		
	e S	T	08:52:33.8							
WERD	e P	Z	08:43:39.4	67.3	66.9	1.3	123	6.0		
	e S	T	08:52:31.8							
NEUB	e S	T	08:52:33.7	67.3	66.8					
GUNZ	e P	Z	08:43:39.6	67.3	66.9	1.4	203	6.2		
	e S	T	08:52:34.0							
WET	e P	Z	08:43:40.8	67.4	66.8	1.7	262	6.2		
	e S	T	08:52:38.2							
MOX	e P	Z	08:43:41.5	67.6	66.5	1.5	180	6.1		
	e S	T	08:52:38.6							
NRDL	e P	Z	08:43:41.6	67.7	66.2	2.2	963	6.6		
	e S	T	08:52:39.3							

CLZ	e P	Z	08:43:43.1	67.8	66.1	2.1	928	6.6	
	e S	T	08:52:40.8						
GRA1	e P	Z	08:43:45.8	68.2	65.9	1.5	452	6.5	
	e S	T	08:52:47.3						
	e L	Z	09:15:18.1			19.0	30594		6.6
UBBA	e S	T	08:52:48.2	68.4	65.5				
FUR	e P	Z	08:43:49.7	68.8	65.4	1.2	458	6.6	
	e S	T	08:52:55.0						
IBBN	e P	Z	08:43:50.9	69.1	64.5	1.7	365	6.3	
	e S	T	08:52:56.0						
BUG	e P	Z	08:43:54.9	69.7	63.9	1.1	161	6.1	
	e S	T	08:53:04.9						
STU	e P	Z	08:43:55.1	69.8	64.3	1.3	160	6.0	
BFO	e P	Z	08:43:59.3	70.5	63.6	1.6	276	6.1	
	e S	T	08:53:13.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/01	10:35:19.6	13.580N	122.240E	131.8	5.6			SZGRF

Luzon, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	10:48:05.5	90.1	67.2	0.8	31	5.7		
BRG	e P	Z	10:48:07.5	90.6	67.4	1.0	19	5.4		
	e PP	Z	10:51:43.4							
CLL	e P	Z	10:48:09.1	91.0	66.6	1.2	19	5.3		
BSEG	e P	Z	10:48:11.3	91.4	64.4	1.0	23	5.6		
GEC2	e P	Z	10:48:11.9	91.5	67.2	1.0	14	5.3		
TANN	e P	Z	10:48:12.3	91.6	66.2	1.2	11	5.2		
WERD	e P	Z	10:48:12.9	91.7	66.1	1.2	14	5.3		
GUNZ	e P	Z	10:48:13.1	91.7	66.1	1.0	17	5.4		
WET	e P	Z	10:48:13.8	91.9	66.6	1.5	22	5.4		
MOX	e P	Z	10:48:14.2	92.0	65.5	2.0	55	5.7		
NRDL	e P	Z	10:48:14.0	92.1	64.3	2.4	126	6.0		
CLZ	e P	Z	10:48:15.7	92.2	64.5	2.1	98	6.0		
	e pP	Z	10:48:49.5							
	e PP	Z	10:51:59.2							
GRA1	e P	Z	10:48:17.5	92.7	65.3	2.5	124	6.0		
	e		10:48:58.6							
BUG	e P	Z	10:48:23.1	94.1	62.1	0.9	13	5.6		
BFO	e P	Z	10:48:27.4	95.0	63.1	1.2	11	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/01	18:12:22.3	32.844N	105.122E	14.4	5.1	4.2		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:23:06.8	65.8	67.1	0.8	7	4.9		
CLL	e P	Z	18:23:08.9	66.2	66.6	1.0	9	4.9		
BSEG	e P	Z	18:23:11.7	66.6	65.8	1.1	21	5.3		
GEC2	e P	Z	18:23:13.0	66.8	66.1	1.0	9	5.0		
TANN	e P	Z	18:23:13.6	66.9	65.9	1.1	10	5.0		
WERD	e P	Z	18:23:14.0	66.9	65.8	1.1	8	4.8		
GUNZ	e P	Z	18:23:14.2	66.9	65.8	1.1	12	5.1		
WET	e P	Z	18:23:15.5	67.1	65.7	1.3	10	4.9		
MOX	e P	Z	18:23:16.0	67.2	65.4	1.0	5	4.7		
NRDL	e P	Z	18:23:16.0	67.3	65.1	1.0	17	5.2		
CLZ	e P	Z	18:23:17.8	67.5	65.0	1.1	20	5.3		
GRA1	e P	Z	18:23:20.4	67.9	64.8	1.4	30	5.3		
	e pP	Z	18:23:24.5							
	e L	Z	18:52:16.3			21.9	161		4.2	
FUR	e P	Z	18:23:24.5	68.5	64.3	0.9	32	5.5		
IBBN	e P	Z	18:23:25.4	68.7	63.4	1.1	13	5.1		
BUG	e P	Z	18:23:29.4	69.4	62.8	1.1	17	5.1		
STU	e P	Z	18:23:29.7	69.5	63.2	0.8	16	5.2		
BFO	e P	Z	18:23:34.0	70.2	62.5	1.3	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/01	19:06:21.5	35.695N	71.500E	33.0N	4.7	4.0		SZGRF

Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:14:23.6	43.3	87.5	0.7	9	4.6		
GEC2	e P	Z	19:14:26.3	43.6	85.2	1.1	6	4.2		
CLL	e P	Z	19:14:27.8	43.9	87.2	0.9	5	4.3		
WET	e P	Z	19:14:30.5	44.1	84.9	1.1	3	4.0		
TANN	e P	Z	19:14:31.5	44.3	85.9	1.6	9	4.3		
GUNZ	e P	Z	19:14:32.6	44.4	85.8	1.8	23	4.6		
WERD	e P	Z	19:14:32.4	44.4	85.8	0.9	5	4.4		
MOX	e P	Z	19:14:35.5	44.8	85.5	0.8	5	4.5		
GRA1	e P	Z	19:14:39.5	45.1	84.3	1.0	16	4.9		
	e L	Z	19:50:08.9			19.4	167		4.0	
FUR	e P	Z	19:14:40.1	45.3	82.8	1.2	27	5.0		
BSEG	e P	Z	19:14:40.3	45.4	87.8	0.8	15	5.1		
CLZ	e P	Z	19:14:41.1	45.5	85.8	0.9	9	4.8		
NRDL	e P	Z	19:14:40.7	45.6	86.2	0.9	9	4.8		
IBBN	e P	Z	19:14:53.2	47.0	84.3	1.2	18	5.1		
BFO	e P	Z	19:14:53.9	47.2	81.1	1.0	7	4.7		
BUG	e P	Z	19:14:57.1	47.4	83.2	1.6	33	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/02	04:03:18.4	29.400N	132.810E	31.6	5.4	5.2		SZGRF

Southeast of Shikoku, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	04:15:39.6	82.4	50.2	1.0	39	5.6		
BSEG	e P	Z	04:15:43.0	83.0	47.8	0.8	19	5.4		
BRG	e P	Z	04:15:44.3	83.4	50.2	1.8	38	5.3		
CLL	e P	Z	04:15:45.0	83.5	49.5	0.7	25	5.6		
NRDL	e P	Z	04:15:47.4	84.1	47.5	1.5	31	5.3		
TANN	e P	Z	04:15:49.7	84.4	49.1	1.9	42	5.3		
CLZ	e P	Z	04:15:50.4	84.4	47.6	1.3	81	5.8		
WERD	e P	Z	04:15:49.8	84.4	49.0	0.8	14	5.2		
GUNZ	e P	Z	04:15:50.3	84.5	49.0	1.9	90	5.7		
MOX	e P	Z	04:15:51.0	84.6	48.5	1.0	19	5.3		
GEC2	e P	Z	04:15:51.4	84.8	49.8	1.6	36	5.4		
WET	e P	Z	04:15:52.8	85.0	49.3	1.7	36	5.3		
	e pP	Z	04:16:02.0							
IBBN	e P	Z	04:15:54.3	85.3	45.7	0.8	48	5.7		
GRA1	e P	Z	04:15:55.3	85.5	48.1	1.6	127	5.8		
	e L	Z	04:57:18.4			19.4	990		5.2	
BUG	e P	Z	04:15:58.2	86.1	45.3	1.5	52	5.4		
FUR	e P	Z	04:16:00.3	86.5	48.1	1.5	53	5.5		
BFO	e P	Z	04:16:05.8	87.8	45.9	0.9	6	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/02	15:34:23.5	16.940S	177.930E	33.0G				SZGRF

Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	15:53:58.2	145.5	22.9					
WET	e PKPbc	Z	15:53:58.5	145.6	25.9					
GEC2	e PKPbc	Z	15:53:58.1	145.6	27.4					
STU	e PKPbc	Z	15:54:02.2	146.9	20.0					
FUR	e PKPbc	Z	15:54:02.5	146.9	23.9					
BFO	e PKPbc	Z	15:54:03.8	147.5	18.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/02	19:40:16.6	52.827N	175.732W	45.9	4.7			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	19:51:44.4	73.1	3.8	0.9	12	5.0		
NRDL	e P	Z	19:51:51.3	74.6	3.7	1.0	5	4.5		
IBBN	e P	Z	19:51:54.0	74.8	2.2	0.9	13	5.0		
CLZ	e P	Z	19:51:56.5	75.2	3.8	0.8	9	4.9		

CLL	e P	Z	19:51:58.0	75.6	5.4	0.7	5	4.7
	e pP	Z	19:52:11.2					
BRG	e P	Z	19:52:00.2	76.0	6.0	0.8	5	4.8
MOX	e P	Z	19:52:02.5	76.3	4.6	0.9	7	4.8
TANN	e P	Z	19:52:03.5	76.5	5.1	1.4	5	4.4
GUNZ	e P	Z	19:52:04.0	76.6	5.0	2.4	29	5.0
GRA1	e P	Z	19:52:08.3	77.3	4.3	0.7	10	5.1
WET	e P	Z	19:52:10.3	77.8	5.3	1.0	2	4.2
GEC2	e P	Z	19:52:11.4	78.0	5.8	1.0	2	4.3
BFO	e P	Z	19:52:15.7	78.8	2.5	0.9	4	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/03	00:39:17.5	39.567N	23.847E	10.0G	4.8	4.3		NEIC

Aegean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:42:05.2	11.8	138.3					
WET	e P	Z	00:42:12.3	12.4	136.7					
BRG	e P	Z	00:42:27.5	13.3	144.7					
TANN	e P	Z	00:42:30.3	13.5	139.2					
GUNZ	e P	Z	00:42:30.8	13.5	138.7					
GRA1	e P	Z	00:42:27.0	13.5	133.8					
	e L	Z	00:47:31.3			19.6	2622		4.3	
WERD	e P	Z	00:42:29.9	13.6	138.9					
STU	e P	Z	00:42:33.5	13.9	125.9					
CLL	e P	Z	00:42:38.6	14.0	143.0					
MOX	e P	Z	00:42:37.2	14.0	137.6					
BFO	e P	Z	00:42:33.8	14.2	122.5					
RUE	e P	Z	00:42:46.8	14.6	147.8	1.2	106			
CLZ	e P	Z	00:42:55.3	15.4	137.5	1.3	82			
NRDL	e P	Z	00:43:06.0	16.0	138.4	2.3	379	5.1		
BUG	e P	Z	00:43:11.4	16.5	129.4	1.3	107	4.8		
IBBN	e P	Z	00:43:17.2	16.9	132.6	1.4	89	4.7		
BSEG	e P	Z	00:43:16.7	17.0	142.0	1.4	120	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/03	18:07:10.7	24.998N	128.060E	33.0G	5.1	4.7		NEIC

Southeast of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	18:19:40.9	83.8	56.2	1.3	55	5.6		
BRG	e P	Z	18:19:45.1	84.6	56.2	1.2	17	5.2		
BSEG	e pP	Z	18:20:01.4	84.7	53.7					
CLL	e P	Z	18:19:46.0	84.8	55.5	1.0	20	5.3		
TANN	e P	Z	18:19:50.3	85.6	55.1	1.2	10	4.8		

WERD	e P	Z	18:19:50.6	85.7	54.9	1.1	10	4.9	
GUNZ	e P	Z	18:19:50.9	85.7	55.0	1.0	15	5.1	
GEC2	e P	Z	18:19:51.4	85.9	55.9	1.0	10	4.9	
CLZ	e P	Z	18:19:52.3	85.9	53.6	1.2	12	4.9	
MOX	e P	Z	18:19:52.2	85.9	54.4	1.5	13	4.8	
WET	e P	Z	18:19:53.1	86.1	55.3	1.7	17	4.9	
GRA1	e P	Z	18:19:56.5	86.7	54.1	1.3	23	5.2	
	e L	Z	19:01:50.5			20.2	292		4.7
FUR	e P	Z	18:20:00.3	87.6	54.1	1.1	26	5.5	
STU	e P	Z	18:20:04.1	88.3	52.6	0.6	10	5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/04	04:42:12.8	50.227N	156.308E	33.0G	6.0	5.0		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:53:34.0	72.0	22.1	1.0	88	5.8		
	e S	T	05:02:51.1							
	e L	Z	05:33:12.7			21.5	421		4.7	
RUE	e P	Z	04:53:36.8	72.5	24.1	1.0	172	6.1		
	e S	T	05:02:55.3							
	e L	Z	05:29:23.5			20.1	960		5.1	
CLZ	e P	Z	04:53:45.5	73.9	21.9	1.1	294	6.2		
	e S	T	05:03:13.9							
	e L	Z	05:30:46.7			19.0	1083		5.2	
BRG	e P	Z	04:53:44.9	73.9	24.0	1.1	86	5.7		
	e S	T	05:03:11.3							
	e L	Z	05:30:09.8			20.3	539		4.8	
IBBN	e P	Z	04:53:46.0	74.1	20.3	1.0	146	6.0		
	e L	Z	05:29:22.2			21.7	620		4.9	
MOX	e P	Z	04:53:49.8	74.7	22.5	1.1	136	5.9		
	e S	T	05:03:20.7							
	e L	Z	05:30:49.0			20.8	1072		5.1	
TANN	e P	Z	04:53:50.0	74.7	23.0	1.1	83	5.7		
WERD	e P	Z	04:53:50.0	74.8	22.9	1.2	166	5.9		
GUNZ	e P	Z	04:53:50.5	74.8	22.9	1.0	136	5.9		
BUG	e P	Z	04:53:51.1	75.0	19.9	1.2	226	6.1		
	e S	T	05:03:24.1							
	e L	Z	05:30:44.2			19.7	485		4.8	
WET	e P	Z	04:53:56.4	75.8	23.2	1.1	243	6.2		
	e S	T	05:03:33.2							
	e L	Z	05:32:06.5			18.4	851		5.1	
WLF	e S	T	05:03:46.5	76.9	19.1					
	e L	Z	05:33:09.5			18.2	952		5.2	
STU	e P	Z	04:54:02.9	77.1	20.9	1.1	221	6.2		
	e S	T	05:03:47.2							
	e L	Z	05:32:19.1			20.3	788		5.0	

FUR	e P	Z	04:54:03.6	77.1	22.1	1.0	268	6.3	
	e S	T	05:03:47.3						
	e L	Z	05:31:40.4			21.7	742		5.0
BFO	e P	Z	04:54:06.3	77.7	20.3	1.1	167	6.1	
	e S	T	05:03:53.7						
	e L	Z	05:31:40.5			21.7	586		4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/04	15:16:53.2	5.202S	151.744E	45.0G				NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	15:35:57.4	122.4	52.4					
TANN	e PKPdf	Z	15:35:59.6	123.4	51.1					
CLZ	e PKPdf	Z	15:35:59.7	123.5	48.2					
GUNZ	e PKPdf	Z	15:35:59.7	123.5	51.0					
MOX	e PKPdf	Z	15:35:59.4	123.7	50.1					
WET	e PKPdf	Z	15:36:00.4	124.0	52.2					
WLF	e PKPdf	Z	15:36:06.9	126.9	44.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/04	19:38:17.6	33.781N	27.071E	10.0G	5.4			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:42:25.7	18.0	141.7	1.2	148	5.0		
	e S	E	19:45:47.0							
FUR	e P	Z	19:42:33.5	18.6	134.8	1.3	577	5.6		
WET	e P	Z	19:42:33.0	18.6	140.3	1.2	173	5.1		
	e S	N	19:45:58.4							
BRG	e P	Z	19:42:44.8	19.6	145.7	1.2	83	4.8		
TANN	e P	Z	19:42:47.1	19.8	141.7	1.1	202	5.3		
	e S	N	19:46:33.6							
GUNZ	e P	Z	19:42:47.2	19.8	141.3	1.2	292	5.4		
WERD	e P	Z	19:42:48.3	19.9	141.4	1.1	226	5.3		
STU	e P	Z	19:42:50.3	20.0	131.8	1.0	136	5.1		
BFO	e P	Z	19:42:51.6	20.2	129.3	1.1	305	5.4		
MOX	e P	Z	19:42:53.1	20.3	140.3	0.9	271	5.5		
RUE	e P	Z	19:42:59.9	21.0	147.8	1.2	516	5.7		
UBBA	e P	Z	19:43:01.5	21.1	137.3	1.6	223	5.2		
CLZ	e P	Z	19:43:07.7	21.7	139.8	1.1	339	5.6		
WLF	e P	Z	19:43:13.5	22.1	128.0	0.9	258	5.7		
BUG	e P	Z	19:43:19.6	22.7	133.3	1.2	386	5.7		
IBBN	e P	Z	19:43:23.5	23.1	135.6	1.2	268	5.6		
BSEG	e P	Z	19:43:24.2	23.4	142.8	1.2	178	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/04	20:45:12.7	5.997S	130.299E	158.0G				NEIC

Banda Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKiKP	Z	21:03:26.2	110.7	72.0					
BRG	e PKiKP	Z	21:03:26.9	111.1	72.8					
TANN	e PKiKP	Z	21:03:28.8	112.1	71.7					
BSEG	e PKiKP	Z	21:03:29.2	112.2	68.4					
WERD	e PKiKP	Z	21:03:29.0	112.2	71.5					
GUNZ	e PKiKP	Z	21:03:29.1	112.2	71.6					
WET	e PKiKP	Z	21:03:29.1	112.2	72.5					
MOX	e PKiKP	Z	21:03:29.6	112.5	70.9					
CLZ	e PKiKP	Z	21:03:30.6	112.9	69.3					
FUR	e PKiKP	Z	21:03:31.3	113.6	71.6					
IBBN	e PKiKP	Z	21:03:32.9	114.2	66.8					
STU	e PKiKP	Z	21:03:33.4	114.7	69.5					
BUG	e PKiKP	Z	21:03:33.9	114.8	66.7					
BFO	e PKiKP	Z	21:03:34.4	115.3	69.0					
WLF	e PKiKP	Z	21:03:37.2	116.2	66.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/05	00:47:13.5	20.125S	170.117E	33.0G				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z	01:06:50.8	145.0	38.2					
GUNZ	e PKPbc	Z	01:06:51.2	145.0	38.3					
WET	e PKPbc	Z	01:06:53.3	145.8	40.2					
FUR	e PKPbc	Z	01:06:58.4	147.2	38.7					
STU	e PKPbc	Z	01:06:59.2	147.5	34.9					
WLF	e PKPbc	Z	01:07:00.6	147.8	29.1					
BFO	e PKPbc	Z	01:07:01.2	148.2	33.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/05	08:01:35.7	21.500S	178.560W	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	08:21:14.6	146.9	15.2					
IBBN	e PKPab	Z	08:21:23.3	148.8	11.4					
CLZ	e PKPbc	Z	08:21:20.1	148.9	16.2					

	e PKPab	Z	08:21:23.9			
BRG	e PKPbc	Z	08:21:20.4	149.0	23.0	
MOX	e PKPbc	Z	08:21:22.0	149.8	19.1	
	e PKPab	Z	08:21:27.5			
TANN	e PKPbc	Z	08:21:22.5	149.8	20.7	
WERD	e PKPbc	Z	08:21:22.4	149.8	20.4	
GUNZ	e PKPbc	Z	08:21:22.8	149.9	20.5	
	e PKPab	Z	08:21:28.5			
WET	e PKPab	Z	08:21:33.0	150.9	22.3	
WLF	e PKPbc	Z	08:21:27.0	151.6	9.2	
STU	e PKPbc	Z	08:21:27.8	152.0	15.5	
BFO	e PKPbc	Z	08:21:28.7	152.6	14.0	
	e PKPab	Z	08:21:39.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/05	08:27:52.7	17.500S	176.500W	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	08:45:34.3	143.2	10.9					
IBBN	e PKPbc	Z	08:45:40.8	145.0	7.1					
CLZ	e PKPbc	Z	08:45:41.3	145.2	11.5					
BRG	e PKPbc	Z	08:45:41.8	145.6	17.8					
MOX	e PKPbc	Z	08:45:43.6	146.2	14.0					
WERD	e PKPbc	Z	08:45:44.0	146.3	15.3					
TANN	e PKPbc	Z	08:45:44.1	146.3	15.5					
GUNZ	e PKPbc	Z	08:45:44.3	146.4	15.3					
	e PKPab	Z	08:45:46.7							
WET	e PKPab	Z	08:45:51.0	147.5	16.8					
WLF	e PKPbc	Z	08:45:49.0	147.8	4.7					
STU	e PKPbc	Z	08:45:49.8	148.4	10.4					
FUR	e PKPab	Z	08:45:56.2	148.7	14.4					
BFO	e PKPbc	Z	08:45:50.8	148.9	8.9					
	e PKPab	Z	08:45:56.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/05	09:49:19.7	32.850N	105.060E	11.3	6.3	6.2		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	10:00:02.6	65.2	67.7	1.2	332	6.5		
	e pP	Z	10:00:05.9			1.2	332			
	e S	R	10:08:47.6							
	e L	Z	10:30:14.4			18.8	21809		6.4	
BRG	e P	Z	10:00:06.0	65.8	67.1	1.1	151	6.1		

	e	pP	Z	10:00:09.1			1.1	151	
	e	S	R	10:08:54.1					
	e	L	Z	10:30:18.8			18.6	14899	6.2
CLL	e	P	Z	10:00:08.1	66.1	66.6	1.0	144	6.1
	e	pP	Z	10:00:11.3			1.0	144	
	e	S	R	10:08:57.9					
	e	L	Z	10:30:30.0			19.3	13883	6.2
BSEG	e	P	Z	10:00:11.6	66.6	65.8	1.0	331	6.5
	e	pP	Z	10:00:14.8			1.0	331	
	e	S	R	10:09:04.7					
	e	L	Z	10:30:54.9			18.6	10426	6.1
TANN	e	P	Z	10:00:12.8	66.8	65.9	1.1	143	6.1
	e	pP	Z	10:00:15.9			1.1	143	
	e	S	R	10:09:06.8					
	e	L	Z	10:30:50.7			18.7	12743	6.2
WERD	e	P	Z	10:00:13.2	66.9	65.8	1.2	149	6.1
	e	pP	Z	10:00:16.3			1.2	140	
GUNZ	e	P	Z	10:00:13.5	66.9	65.8	1.1	181	6.2
WET	e	P	Z	10:00:14.8	67.1	65.7	1.3	167	6.1
	e	S	R	10:09:11.5					
	e	L	Z	10:30:32.6			18.3	6723	5.9
MOX	e	P	Z	10:00:15.2	67.2	65.5	1.4	164	6.1
	e	pP	Z	10:00:18.4					
	e	S	R	10:09:11.4					
	e	L	Z	10:31:12.3			19.3	13645	6.2
CLZ	e	P	Z	10:00:16.8	67.4	65.1	1.0	290	6.4
	e	pP	Z	10:00:20.1					
	e	S	R	10:09:14.4					
	e	L	Z	10:31:31.4			19.5	26461	6.5
GRA1	e	P	Z	10:00:19.7	67.8	64.8	1.0	300	6.5
	e	S	R	10:09:20.3					
	e	L	Z	10:31:50.0			18.4	14225	6.2
FUR	e	P	Z	10:00:23.8	68.5	64.3	1.2	631	6.7
	e	S	R	10:09:27.0					
	e	L	Z	10:32:23.5			19.1	8525	6.0
IBBN	e	P	Z	10:00:24.4	68.7	63.5	1.2	256	6.3
	e	L	Z	10:32:32.7			18.7	18793	6.4
TNS	e	P	Z	10:00:27.8	69.2	63.2	1.0	166	6.2
	e	pP	Z	10:00:31.0					
	e	S	R	10:09:36.5					
	e	L	Z	10:32:24.6			19.0	23783	6.5
BUG	e	P	Z	10:00:28.6	69.3	62.8	1.1	231	6.3
	e	S	R	10:09:37.2					
	e	L	Z	10:32:51.6			19.4	25553	6.5
STU	e	P	Z	10:00:29.1	69.4	63.2	1.1	184	6.2
	e	S	R	10:09:37.7					
	e	L	Z	10:32:47.9			18.0	11007	6.1
BFO	e	P	Z	10:00:33.1	70.1	62.5	1.3	178	6.0
	e	pP	Z	10:00:36.3					

	e S	R	10:09:46.2						
	e L	Z	10:33:18.3			19.3	8412		6.0
WLF	e P	Z	10:00:38.0	70.8	61.5	1.1	458	6.5	
	e S	R	10:09:54.8						
	e L	Z	10:33:23.8			18.7	14530		6.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/05	10:08:11.0	13.530N	93.290E	33.0G	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:19:37.5	72.8	89.5	0.9	31	5.3		
	e		10:19:54.7							
RUE	e P	Z	10:19:37.8	72.9	89.9	1.1	78	5.7		
CLL	e P	Z	10:19:40.5	73.4	88.9	1.1	24	5.1		
WET	e P	Z	10:19:41.8	73.6	88.2	1.1	31	5.3		
TANN	e P	Z	10:19:43.1	73.8	88.2	1.3	23	5.1		
GUNZ	e P	Z	10:19:43.7	73.9	88.1	1.2	27	5.1		
WERD	e P	Z	10:19:43.6	73.9	88.1	1.0	23	5.2		
MOX	e P	Z	10:19:46.1	74.3	87.6	0.9	17	5.1		
	e		10:20:03.9							
GRA1	e P	Z	10:19:48.3	74.6	87.1	1.6	83	5.5		
	e		10:20:05.3							
FUR	e P	Z	10:19:48.2	74.7	86.7	0.4	21	5.5		
BSEG	e P	Z	10:19:50.0	75.0	87.5	0.9	45	5.6		
	e		10:20:07.9							
CLZ	e P	Z	10:19:50.3	75.0	87.0	1.0	34	5.4		
STU	e P	Z	10:19:55.5	76.0	85.3	1.2	14	5.0		
TNS	e P	Z	10:19:57.9	76.4	85.1	0.9	24	5.3		
BFO	e P	Z	10:19:58.7	76.6	84.6	1.6	20	5.0		
IBBN	e P	Z	10:19:59.3	76.6	85.1	1.2	45	5.5		
BUG	e P	Z	10:20:01.3	77.0	84.5	1.1	36	5.4		
WLF	e P	Z	10:20:06.9	77.9	83.3	1.7	52	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/05	21:59:50.4	33.370N	91.650E	33.0G	5.1	4.5		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:09:37.0	57.4	75.6	1.0	14	5.0		
CLL	e P	Z	22:09:40.0	57.9	75.3	1.6	25	5.0		
	e L	Z	22:39:05.4			19.7	262		4.4	
TANN	e P	Z	22:09:44.3	58.4	74.4	1.5	18	4.9		
WERD	e P	Z	22:09:44.9	58.5	74.3	1.2	12	4.8		
WET	e P	Z	22:09:45.2	58.5	73.9	1.5	19	4.9		

GUNZ	e P	Z	22:09:45.1	58.5	74.2	1.1	17	5.0	
BSEG	e P	Z	22:09:47.0	58.8	74.9	0.9	17	5.1	
MOX	e P	Z	22:09:47.4	58.9	73.9	1.4	19	4.9	
CLZ	e P	Z	22:09:50.4	59.3	73.8	1.2	28	5.2	
GRA1	e P	Z	22:09:51.5	59.4	73.1	1.4	49	5.3	
	e L	Z	22:39:49.3			18.9	293		4.4
FUR	e P	Z	22:09:54.4	59.8	72.3	1.3	49	5.4	
	e L	Z	22:38:41.8			20.3	276		4.4
IBBN	e P	Z	22:09:59.9	60.7	72.2	1.3	27	4.9	
TNS	e L	Z	22:42:01.5	60.9	71.6	18.0	405		4.6
STU	e P	Z	22:10:01.2	60.9	71.3	1.5	36	5.0	
BUG	e P	Z	22:10:03.9	61.2	71.4	1.4	25	4.8	
BFO	e P	Z	22:10:05.9	61.6	70.5	1.3	22	5.2	
WLF	e P	Z	22:10:12.7	62.5	69.8	1.3	45	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/06	08:38:33.2	9.026S	157.889E	10.0G				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	08:57:39.9	128.7	48.2					
CLZ	e PKPdf	Z	08:57:42.1	129.6	43.5					
TANN	e PKPdf	Z	08:57:42.0	129.7	46.8					
WERD	e PKPdf	Z	08:57:42.1	129.8	46.6					
GUNZ	e PKPdf	Z	08:57:42.3	129.8	46.7					
MOX	e PKPdf	Z	08:57:42.3	130.0	45.7					
TNS	e PKPdf	Z	08:57:46.0	131.7	42.2					
BFO	e PKPdf	Z	08:57:48.4	133.1	43.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/06	22:03:12.2	14.129S	73.056W	93.0G	5.4			NEIC

Central Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	22:16:23.7	95.1	253.7	0.8	10	5.3		
TNS	e P	Z	22:16:25.4	95.5	254.5	1.3	14	5.2		
IBBN	e P	Z	22:16:26.4	95.7	254.2	0.8	14	5.6		
CLZ	e P	Z	22:16:33.2	97.1	256.1	1.1	11	5.4		
GRA1	e P	Z	22:16:33.5	97.1	256.5	1.4	16	5.5		
BSEG	e P	Z	22:16:35.2	97.6	256.3	1.5	23	5.6		
MOX	e P	Z	22:16:35.4	97.6	256.9	2.1	28	5.5		
GUNZ	e P	Z	22:16:36.7	97.9	257.4	1.8	15	5.4		
WERD	e P	Z	22:16:37.2	97.9	257.4	1.8	16	5.5		
WET	e P	Z	22:16:37.4	98.0	257.7	1.5	10	5.3		
TANN	e P	Z	22:16:37.9	98.0	257.5	1.4	10	5.3		

CLL	e P	Z	22:16:39.8	98.6	258.1	0.7	4	5.2
BRG	e P	Z	22:16:42.0	99.1	258.7	1.3	9	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/06	22:41: 1.1	8.133S	117.497E	10.0G		5.6		NEIC

Sumbawa, Indonesia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PP	Z	22:59:26.1	104.8	84.1					
BRG	e PP	Z	22:59:27.4	104.8	84.6					
CLL	e PP	Z	22:59:30.8	105.4	83.8					
	e SS	T	23:14:29.9							
WET	e PP	Z	22:59:32.1	105.7	84.3					
TANN	e PP	Z	22:59:34.6	105.8	83.6					
	e SS	T	23:14:35.2							
MOX	e PP	Z	22:59:37.8	106.3	82.8					
	e SS	T	23:14:42.1							
BSEG	e PP	Z	22:59:41.6	106.6	80.8					
	e SS	T	23:14:47.9							
GRA1	e PP	Z	22:59:39.8	106.7	82.8					
	e PS	R	23:09:11.4							
	e SS	T	23:14:46.7							
	e L	Z	23:48:41.0			21.7	2088		5.6	
FUR	e PP	Z	22:59:40.5	106.8	83.3					
	e SS	T	23:14:45.2							
CLZ	e PP	Z	22:59:42.8	106.9	81.5					
STU	e PP	Z	22:59:50.6	108.1	81.5					
	e SS	T	23:15:03.2							
TNS	e PP	Z	22:59:53.2	108.4	80.4					
	e PS	R	23:09:24.1							
IBBN	e PP	Z	22:59:54.0	108.4	79.2					
BFO	e PP	Z	22:59:55.6	108.8	81.0					
	e PS	R	23:09:24.1							
BUG	e PP	Z	22:59:57.4	108.9	79.1					
	e PS	R	23:09:26.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/07	06:27:58.4	19.240S	176.250W	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	06:47:31.0	144.9	10.8					
NRDL	e PKPbc	Z	06:47:34.7	146.4	10.9					
CLZ	e PKPbc	Z	06:47:37.9	147.0	11.5					
CLL	e PKPbc	Z	06:47:37.7	147.1	16.2					

BRG	e PKPbc	Z	06:47:38.4	147.4	18.0
WERD	e PKPbc	Z	06:47:40.6	148.1	15.4
TANN	e PKPbc	Z	06:47:40.7	148.1	15.7
GUNZ	e PKPbc	Z	06:47:41.0	148.1	15.5
	e PKPab	Z	06:47:43.2		
TNS	e PKPab	Z	06:47:46.0	148.8	8.6
GRA1	e PKPab	Z	06:47:46.7	149.0	13.8
WET	e PKPab	Z	06:47:47.5	149.2	17.0
GEC2	e PKPbc	Z	06:47:43.8	149.3	18.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/07	08:15:35.2	31.997N	104.413E	33.0G	5.4	5.0		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	08:26:19.9	65.5	68.7	0.9	36	5.6		
BRG	e P	Z	08:26:23.0	66.0	68.2	0.9	20	5.4		
CLL	e P	Z	08:26:25.2	66.4	67.7	0.8	15	5.3		
BSEG	e P	Z	08:26:29.1	66.9	66.9	1.0	37	5.6		
GEC2	e P	Z	08:26:29.2	66.9	67.2	1.0	17	5.2		
TANN	e P	Z	08:26:29.8	67.0	67.0	0.9	15	5.2		
WERD	e P	Z	08:26:30.2	67.1	66.9	0.9	14	5.2		
GUNZ	e P	Z	08:26:30.5	67.1	66.9	0.9	23	5.4		
WET	e P	Z	08:26:31.3	67.3	66.8	0.9	12	5.1		
MOX	e P	Z	08:26:32.3	67.5	66.5	1.0	11	5.0		
NRDL	e P	Z	08:26:32.5	67.6	66.2	0.9	28	5.5		
CLZ	e P	Z	08:26:34.1	67.7	66.1	0.9	39	5.6		
GRA1	e P	Z	08:26:36.7	68.1	65.9	0.9	50	5.8		
	e L	Z	08:58:10.8			18.7	937		5.0	
FUR	e P	Z	08:26:40.6	68.7	65.4	1.0	84	5.9		
IBBN	e P	Z	08:26:41.7	68.9	64.5	0.5	19	5.5		
TNS	e P	Z	08:26:44.9	69.5	64.3	0.8	18	5.2		
BUG	e P	Z	08:26:45.8	69.6	63.9	0.9	25	5.3		
STU	e P	Z	08:26:46.0	69.7	64.3	1.2	32	5.3		
BFO	e P	Z	08:26:50.2	70.4	63.6	1.0	16	5.1		
WLF	e P	Z	08:26:55.2	71.0	62.6	0.9	64	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/07	18:30:10.7	52.871N	174.765W	33.0G	5.8	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	18:41:38.4	73.1	3.2	1.2	127	5.9		
	e S	T	18:51:13.4							
RUE	e P	Z	18:41:45.4	74.4	5.3	1.5	168	5.9		

	e	S	T	18:51:24.9					
	e	SS	R	18:56:37.9					
NRDL	e	P	Z	18:41:45.4	74.6	3.0	1.8	163	5.8
	e	S	T	18:51:26.8					
	e	SS	R	18:56:40.0					
IBBN	e	P	Z	18:41:48.3	74.8	1.6	1.7	286	6.0
CLZ	e	P	Z	18:41:50.5	75.2	3.2	1.4	190	6.0
	e	S	T	18:51:35.1					
	e	SS	R	18:56:51.7					
CLL	e	P	Z	18:41:51.9	75.6	4.8	1.5	104	5.7
	e	S	T	18:51:38.0					
	e	SS	R	18:56:56.2					
BUG	e	P	Z	18:41:52.8	75.7	1.3	1.5	142	5.9
	e	S	T	18:51:40.9					
	e	SS	R	18:56:58.9					
BRG	e	P	Z	18:41:54.1	76.0	5.4	1.3	77	5.7
	e	S	T	18:51:42.5					
	e	SS	R	18:57:02.1					
UBBA	e	S	T	18:51:46.5	76.2	3.0			
	e	SS	R	18:57:05.9					
MOX	e	P	Z	18:41:56.5	76.3	4.0	1.3	60	5.6
	e	S	T	18:51:47.4					
	e	SS	R	18:57:07.9					
WERD	e	P	Z	18:41:57.5	76.5	4.4	1.4	51	5.5
TANN	e	P	Z	18:41:57.7	76.5	4.5	1.4	57	5.5
	e	S	T	18:51:49.3					
	e	SS	R	18:57:11.0					
GUNZ	e	P	Z	18:41:58.1	76.6	4.4	1.4	63	5.6
WERN	e	P	Z	18:41:58.5	76.7	4.4	2.2	286	6.0
TNS	e	P	Z	18:41:59.7	76.9	2.0	1.9	296	6.1
	e	S	T	18:51:54.1					
	e	SS	R	18:57:16.8					
GRA1	e	P	Z	18:42:02.4	77.3	3.7	1.6	267	6.1
	e	S	T	18:51:58.4					
	e	SS	R	18:57:23.0					
	e	L	Z	19:27:11.5			18.7	2480	5.6
WLF	e	P	Z	18:42:01.8	77.5	0.6	1.4	64	5.6
	e	S	T	18:52:01.8					
	e	SS	R	18:57:27.0					
WET	e	P	Z	18:42:04.6	77.8	4.7	2.0	136	5.7
	e	S	T	18:52:03.4					
	e	SS	R	18:57:30.6					
GEC2	e	P	Z	18:42:05.7	78.0	5.2	1.8	88	5.6
	e	S	T	18:52:05.5					
	e	SS	R	18:57:33.9					
STU	e	P	Z	18:42:07.4	78.3	2.4	1.8	124	5.6
	e	S	T	18:52:09.2					
	e	SS	R	18:57:37.8					
BFO	e	P	Z	18:42:10.0	78.8	1.9	1.6	88	5.5

	e S	T	18:52:14.0						
	e SS	R	18:57:44.9						
FUR	e P	Z	18:42:10.4	78.8	3.7	1.5	92	5.6	
	e S	T	18:52:14.2						
	e SS	R	18:57:46.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08	02:25: 9.0	31.326S	177.118W	8.0G				NEIC

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	02:45:33.6	156.8	16.3					
CLL	e PKPab	Z	02:45:41.5	158.7	24.4					
CLZ	e PKPab	Z	02:45:42.3	158.8	17.9					
BRG	e PKPab	Z	02:45:42.5	158.8	27.0					
MOX	e PKPab	Z	02:45:45.9	159.6	21.9					
TANN	e PKPab	Z	02:45:46.2	159.6	24.1					
WERD	e PKPab	Z	02:45:46.4	159.6	23.7					
GUNZ	e PKPab	Z	02:45:46.6	159.7	23.8					
WERN	e PKPab	Z	02:45:47.0	159.8	24.0					
GRA1	e PKPab	Z	02:45:50.9	160.6	21.9					
TNS	e PKPab	Z	02:45:50.4	160.7	14.5					
WET	e PKPab	Z	02:45:51.2	160.7	26.6					
GEC2	e PKPab	Z	02:45:50.7	160.7	29.0					
FUR	e PKPab	Z	02:45:57.1	162.0	23.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:09:33.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08	06:37:34.4	4.410S	103.330E	33.0G	5.4	5.3		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:50:45.0	93.0	93.3	1.7	44	5.6		
	e S	T	07:01:40.6							
GEC2	e P	Z	06:50:44.9	93.1	93.2	1.6	46	5.7		
	e S	T	07:01:40.1							
RUE	e P	Z	06:50:45.9	93.2	93.0	0.9	31	5.8		
	e S	T	07:01:40.6							

WET	e P	Z	06:50:47.4	93.6	92.5	1.8	44	5.5	
	e S	T	07:01:46.0						
CLL	e P	Z	06:50:47.3	93.6	92.5	1.9	39	5.4	
	e S	T	07:01:45.0						
TANN	e P	Z	06:50:49.0	94.0	92.1	1.6	16	5.1	
	e S	T	07:01:49.8						
WERN	e P	Z	06:50:49.4	94.0	92.1	1.5	14	5.1	
GUNZ	e P	Z	06:50:49.5	94.0	92.0	1.5	13	5.1	
WERD	e P	Z	06:50:49.4	94.1	92.0	1.6	19	5.2	
MOX	e P	Z	06:50:51.4	94.5	91.5	1.4	18	5.2	
	e S	T	07:01:53.8						
FUR	e S	T	07:01:52.6	94.7	91.4				
GRA1	e P	Z	06:50:52.8	94.7	91.3	1.7	64	5.8	
	e S	T	07:01:56.5						
	e L	Z	07:42:25.3			21.6	1103		5.3
CLZ	e P	Z	06:50:55.3	95.3	90.4	2.6	68	5.6	
	e S	T	07:01:59.5						
BSEG	e P	Z	06:50:55.7	95.3	90.2	0.7	7	5.2	
	e S	T	07:02:01.3						
NRDL	e P	Z	06:50:55.2	95.5	90.1	2.0	39	5.5	
	e S	T	07:02:00.3						
UBBA	e S	T	07:02:02.2	95.5	90.2				
STU	e S	T	07:02:06.5	96.0	89.8				
TNS	e P	Z	06:51:00.6	96.5	89.1	0.7	9	5.4	
	e S	T	07:02:11.3						
BFO	e S	T	07:02:11.3	96.6	89.2				
IBBN	e P	Z	06:51:02.4	96.9	88.3	0.6	8	5.5	
BUG	e S	T	07:02:17.3	97.2	88.0				
WLF	e P	Z	06:51:07.2	98.0	87.4	1.6	28	5.7	
	e S	T	07:02:24.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08	07:57:43.2	19.600S	178.160W	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	08:17:16.0	145.1	14.0					
RUE	e PKPbc	Z	08:17:18.4	145.8	20.3					
CLZ	e PKPbc	Z	08:17:22.5	147.1	14.9					
CLL	e PKPbc	Z	08:17:22.4	147.1	19.6					
BRG	e PKPdf	Z	08:17:21.7	147.3	21.4					
	e PKPbc	Z	08:17:23.2							
MOX	e PKPdf	Z	08:17:22.7	148.0	17.6					
	e PKPbc	Z	08:17:25.0							
	e PKPab	Z	08:17:27.5							
TANN	e PKPbc	Z	08:17:25.2	148.1	19.2					
WERD	e PKPdf	Z	08:17:22.7	148.1	18.9					

	e PKPbc	Z	08:17:25.2			
GUNZ	e PKPdf	Z	08:17:23.0	148.1	19.0	
	e PKPbc	Z	08:17:25.5			
	e PKPab	Z	08:17:28.4			
WERN	e PKPbc	Z	08:17:25.5	148.2	19.1	
TNS	e PKPbc	Z	08:17:27.6	148.9	12.1	
GRA1	e PKPab	Z	08:17:31.9	149.0	17.3	
GEC2	e PKPbc	Z	08:17:28.4	149.2	22.2	
WLF	e PKPbc	Z	08:17:30.1	149.7	8.1	
STU	e PKPbc	Z	08:17:30.8	150.2	14.1	
FUR	e PKPbc	Z	08:17:31.4	150.4	18.2	
BFO	e PKPbc	Z	08:17:32.1	150.8	12.6	
	e PKPab	Z	08:17:38.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08	15:22:20.3	21.715S	177.357E	33.0G				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	15:42:07.1	148.0	28.2					
BRG	e PKPbc	Z	15:42:07.5	148.1	30.1					
CLZ	e PKPbc	Z	15:42:07.3	148.2	23.4					
TANN	e PKPbc	Z	15:42:09.5	148.9	28.0					
WERD	e PKPbc	Z	15:42:09.6	149.0	27.7					
MOX	e PKPbc	Z	15:42:09.6	149.0	26.4					
GUNZ	e PKPbc	Z	15:42:09.9	149.0	27.8					
WERN	e PKPbc	Z	15:42:10.3	149.1	27.9					
GEC2	e PKPbc	Z	15:42:12.2	149.9	31.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08	15:53:13.9	42.199N	143.100E	33.0G	5.4	5.1		SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	16:04:56.4	75.7	36.3	1.1	53	5.6		
BSEG	e P	Z	16:04:56.7	75.7	34.1	1.8	96	5.6		
CLL	e P	Z	16:05:02.8	76.9	35.6	2.0	100	5.6		
BRG	e P	Z	16:05:03.1	76.9	36.1	2.6	138	5.6		
NRDL	e P	Z	16:05:02.5	77.0	33.8	2.0	52	5.3		
CLZ	e P	Z	16:05:06.0	77.4	33.9	1.6	76	5.6		
TANN	e P	Z	16:05:08.1	77.9	35.1	2.4	90	5.5		
WERD	e P	Z	16:05:08.1	77.9	35.0	2.1	64	5.4		
IBBN	e P	Z	16:05:08.8	77.9	32.2	1.6	64	5.5		
GUNZ	e P	Z	16:05:09.0	78.0	35.0	2.0	63	5.4		
MOX	e P	Z	16:05:08.7	78.0	34.6	1.6	37	5.3		

WERN	e P	Z	16:05:09.3	78.0	35.0	2.7	112	5.5	
GEC2	e P	Z	16:05:12.7	78.7	35.7	1.5	28	5.1	
WET	e P	Z	16:05:13.3	78.7	35.2	1.3	33	5.2	
BUG	e P	Z	16:05:13.6	78.8	31.7	1.3	33	5.2	
GRA1	e P	Z	16:05:14.5	78.9	34.2	1.3	54	5.4	
	e		16:05:29.3						
	e L	Z	16:43:18.4			20.4	944		5.1
TNS	e P	Z	16:05:17.1	79.4	32.4	1.6	58	5.3	
FUR	e P	Z	16:05:20.9	80.2	34.1	1.7	112	5.5	
STU	e P	Z	16:05:22.1	80.4	32.8	1.1	27	5.2	
WLF	e P	Z	16:05:23.7	80.7	30.8	2.0	100	5.5	
BFO	e P	Z	16:05:25.5	81.1	32.2	1.6	53	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/08	22:05:22.2	24.500N	122.500E	33.0G	5.2			SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:17:39.5	82.0	60.6	1.0	13	5.0		
CLL	e P	Z	22:17:41.0	82.3	59.9	1.0	21	5.3		
TANN	e P	Z	22:17:44.6	83.1	59.5	0.9	6	4.8		
WERD	e P	Z	22:17:44.9	83.1	59.3	1.0	8	4.9		
GEC2	e P	Z	22:17:44.8	83.2	60.2	1.0	12	5.1		
GUNZ	e P	Z	22:17:45.3	83.2	59.4	0.9	12	5.1		
WERN	e P	Z	22:17:45.5	83.2	59.4	1.1	18	5.2		
NRDL	e P	Z	22:17:44.8	83.2	57.9	1.3	28	5.3		
MOX	e P	Z	22:17:46.6	83.4	58.9	1.3	14	5.0		
CLZ	e P	Z	22:17:47.5	83.4	58.0	1.1	22	5.3		
GRA1	e P	Z	22:17:50.3	84.1	58.5	1.1	21	5.3		
BUG	e P	Z	22:17:56.2	85.3	55.7	1.4	26	5.3		
WLF	e P	Z	22:18:03.8	86.9	54.8	1.4	43	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/09	00:54:41.0	43.046N	141.828E	33.0G	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	01:06:23.0	75.7	36.0	0.8	9	4.9		
BRG	e P	Z	01:06:23.3	75.7	36.5	1.0	4	4.5		
CLZ	e P	Z	01:06:26.6	76.2	34.3	0.8	12	5.1		
TANN	e P	Z	01:06:28.5	76.7	35.5	0.9	2	4.3		
WERD	e P	Z	01:06:28.5	76.7	35.4	1.0	4	4.5		
IBBN	e P	Z	01:06:29.0	76.7	32.6	0.6	12	5.2		
MOX	e P	Z	01:06:29.1	76.8	35.0	0.8	5	4.7		
WERN	e P	Z	01:06:29.2	76.8	35.4	0.6	4	4.7		

GEC2	e P	Z	01:06:33.0	77.5	36.1				
WET	e P	Z	01:06:33.9	77.5	35.6	0.9	5	4.6	
BUG	e P	Z	01:06:34.0	77.6	32.2	0.9	9	4.9	
GRA1	e P	Z	01:06:34.9	77.7	34.6	0.7	16	5.2	
TNS	e P	Z	01:06:37.3	78.3	32.9				
FUR	e P	Z	01:06:41.4	79.0	34.5	0.8	14	5.1	
BFO	e P	Z	01:06:46.2	79.9	32.6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/09	06:01:49.2	60.603S	153.532E	33.0G		6.2		NEIC

West of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPab	Z	06:22:05.9	154.5	132.6					
GRA1	e PKPab	Z	06:22:13.4	156.3	131.7					
	e SS	N	06:45:46.7							
	e L	Z	07:44:58.1			21.9	3810		6.2	
CLL	e PKPab	Z	06:22:14.2	156.5	128.6					
MOX	e PKPab	Z	06:22:15.3	156.7	130.0					
BFO	e PKPab	Z	06:22:15.4	156.7	134.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/09								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:07:00.1			1.1	26			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/09	15:18:11.2	51.418N	179.658W	33.0G	5.4			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:29:50.7	74.3	6.4	0.8	37	5.5		
RUE	e P	Z	15:29:57.0	75.5	8.6					
IBBN	e P	Z	15:30:00.6	76.1	4.8					
CLZ	e P	Z	15:30:02.5	76.4	6.4	0.7	58	5.8		
CLL	e P	Z	15:30:03.4	76.7	8.1	0.8	19	5.3		
NEUB	e P	Z	15:30:05.1	76.9	7.3					
BUG	e P	Z	15:30:04.9	77.0	4.4					
BRG	e P	Z	15:30:05.5	77.1	8.7	0.8	18	5.3		
UBBA	e P	Z	15:30:08.1	77.4	6.2					
MOX	e P	Z	15:30:08.1	77.5	7.2	0.9	20	5.3		
WERD	e P	Z	15:30:09.7	77.6	7.6					

TANN	e P	Z	15:30:09.1	77.6	7.7				
GUNZ	e P	Z	15:30:09.5	77.7	7.6				
WERN	e P	Z	15:30:10.1	77.8	7.6				
TNS	e P	Z	15:30:11.7	78.1	5.2	0.7	58	5.7	
GRA1	e P	Z	15:30:14.0	78.5	6.9	0.9	60	5.6	
WLF	e P	Z	15:30:15.6	78.8	3.7				
WET	e P	Z	15:30:16.0	78.9	7.9	1.3	18	5.0	
GEC2	e P	Z	15:30:16.9	79.1	8.4	0.7	18	5.2	
STU	e P	Z	15:30:19.1	79.5	5.6				
FUR	e P	Z	15:30:21.9	80.0	6.9	1.4	69	5.4	
BFO	e P	Z	15:30:21.7	80.0	5.0	0.9	16	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/09								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:56:49.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/10								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	05:39:30.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/10	08:20:33.0	10.694N	92.135E	33.0N	5.5	6.1		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:32:07.0	74.3	92.3	1.0	41	5.4		
GEC2	e P	Z	08:32:07.4	74.4	91.6	1.0	36	5.4		
RUE	e P	Z	08:32:07.8	74.5	92.6					
CLL	e P	Z	08:32:10.1	74.9	91.7	1.2	44	5.3		
WET	e P	Z	08:32:10.6	74.9	91.0					
TANN	e P	Z	08:32:12.3	75.2	91.0					
WERN	e P	Z	08:32:12.8	75.3	90.9					
GUNZ	e P	Z	08:32:12.9	75.3	90.9					
WERD	e P	Z	08:32:12.8	75.3	90.9					
NEUB	e P	Z	08:32:14.6	75.7	90.7					
MOX	e P	Z	08:32:15.3	75.8	90.4	0.7	24	5.4		
GRA1	e P	Z	08:32:17.3	76.0	89.9	1.2	92	5.8		
	e S	N	08:41:58.8							
	e SS	N	08:46:52.7							

	e L	Z	09:10:47.7			20.4	10812		6.1
CLZ	e P	Z	08:32:19.9	76.5	89.8	0.8	53	5.7	
BSEG	e P	Z	08:32:20.4	76.6	90.2	0.9	70	5.8	
NRDL	e P	Z	08:32:20.1	76.7	89.7				
UBBA	e P	Z	08:32:21.3	76.8	89.2				
STU	e P	Z	08:32:24.8	77.3	88.2				
TNS	e P	Z	08:32:27.0	77.8	87.9	0.7	38	5.7	
BFO	e P	Z	08:32:27.3	77.9	87.4	1.0	30	5.3	
BUG	e P	Z	08:32:30.7	78.5	87.3	0.9	32	5.3	
WLF	e P	Z	08:32:35.8	79.3	86.1				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/10	09:27:49.2	10.126N	91.852E	31.7	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:39:29.2	74.5	92.9	1.7	77	5.5		
GEC2	e P	Z	09:39:29.6	74.6	92.2	1.8	79	5.4		
RUE	e P	Z	09:39:30.0	74.7	93.2					
CLL	e P	Z	09:39:32.3	75.2	92.3	1.5	38	5.2		
WET	e P	Z	09:39:32.9	75.2	91.6	1.4	32	5.2		
TANN	e P	Z	09:39:34.6	75.5	91.6					
WERN	e P	Z	09:39:35.0	75.5	91.5					
GUNZ	e P	Z	09:39:35.1	75.5	91.5	1.6	48	5.4		
WERD	e P	Z	09:39:35.0	75.6	91.5					
MOX	e P	Z	09:39:37.6	76.0	91.0	1.2	36	5.4		
FUR	e P	Z	09:39:38.3	76.2	90.2	1.5	46	5.4		
GRA1	e P	Z	09:39:39.5	76.2	90.5	1.6	106	5.7		
	e pP	Z	09:39:48.6							
CLZ	e P	Z	09:39:42.1	76.8	90.4	1.8	108	5.7		
BSEG	e P	Z	09:39:42.6	76.9	90.8	1.6	94	5.7		
NRDL	e P	Z	09:39:42.3	77.0	90.3					
STU	e P	Z	09:39:46.4	77.6	88.8					
TNS	e P	Z	09:39:49.2	78.0	88.5	1.7	101	5.7		
BFO	e P	Z	09:39:49.4	78.2	88.0	1.4	28	5.2		
IBBN	e P	Z	09:39:51.2	78.4	88.4	1.3	63	5.6		
WLF	e P	Z	09:39:58.0	79.5	86.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/10	12:21:13.7	10.526N	91.498E	33.0N	5.4			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:32:46.2	74.0	92.9	1.6	58	5.4		
GEC2	e P	Z	12:32:46.5	74.1	92.2	0.9	26	5.2		

RUE	e P	Z	12:32:47.0	74.2	93.3	1.0	88	5.7
CLL	e P	Z	12:32:49.2	74.6	92.3	1.2	34	5.2
WET	e P	Z	12:32:49.7	74.6	91.6	1.5	44	5.3
TANN	e P	Z	12:32:51.5	74.9	91.6			
WERN	e P	Z	12:32:52.0	75.0	91.5			
GUNZ	e P	Z	12:32:52.1	75.0	91.5	1.3	40	5.3
WERD	e P	Z	12:32:52.0	75.0	91.5			
MOX	e P	Z	12:32:54.6	75.5	91.0	1.2	42	5.4
FUR	e P	Z	12:32:55.4	75.7	90.2	1.1	29	5.3
GRA1	e P	Z	12:32:56.4	75.7	90.5	1.0	44	5.6
CLZ	e P	Z	12:32:59.0	76.3	90.4	0.9	35	5.5
BSEG	e P	Z	12:32:59.5	76.3	90.8	1.6	96	5.7
STU	e P	Z	12:33:03.9	77.0	88.7	0.9	29	5.4
TNS	e P	Z	12:33:06.1	77.5	88.5			
BFO	e P	Z	12:33:06.4	77.6	88.0	1.4	41	5.4
IBBN	e P	Z	12:33:08.2	77.9	88.4	1.2	65	5.6
WLF	e P	Z	12:33:15.0	79.0	86.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/10	13:01:32.1	10.851N	92.519E	33.0N	5.0			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:13:07.2	74.4	91.9	0.9	13	5.0		
GEC2	e P	Z	13:13:07.9	74.5	91.2	0.8	8	4.8		
CLL	e P	Z	13:13:10.7	75.0	91.3	1.5	21	4.9		
WET	e P	Z	13:13:11.2	75.1	90.6	1.5	18	4.9		
WERN	e P	Z	13:13:12.9	75.4	90.5					
GUNZ	e P	Z	13:13:13.6	75.4	90.5	1.5	23	5.0		
WERD	e P	Z	13:13:12.5	75.4	90.5	1.8	25	4.9		
MOX	e P	Z	13:13:15.6	75.9	90.0	0.8	7	4.8		
GRA1	e P	Z	13:13:17.1	76.1	89.5	1.6	59	5.5		
CLZ	e P	Z	13:13:19.8	76.6	89.4	0.8	15	5.2		
BSEG	e P	Z	13:13:20.2	76.7	89.8	1.2	33	5.3		
NRDL	e P	Z	13:13:20.8	76.8	89.3	1.5	27	5.1		
TNS	e P	Z	13:13:27.4	77.9	87.5	1.7	39	5.3		
BFO	e P	Z	13:13:28.1	78.1	87.0	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/10								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	22:57:53.9							
BRG	e P	Z	22:57:53.2							
BSEG	e P	Z	22:58:34.9							

CLL	e P	Z	22:58:01.4			
GRA1	e P	Z	22:57:53.8		0.7	8
WET	e P	Z	22:57:41.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/11	00:09:40.1	54.300N	163.660W	33.0G	5.4	4.9		SZGRF

Unimak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:21:02.5	71.7	356.3	1.3	42	5.4		
IBBN	e P	Z	00:21:11.2	73.2	354.8	1.2	72	5.6		
CLZ	e P	Z	00:21:14.9	73.7	356.4	1.4	64	5.5		
CLL	e P	Z	00:21:17.7	74.4	358.0	1.0	23	5.2		
BRG	e P	Z	00:21:20.5	74.8	358.6	1.5	32	5.1		
MOX	e P	Z	00:21:21.7	75.0	357.1	1.6	56	5.4		
TANN	e P	Z	00:21:23.4	75.2	357.7	1.6	30	5.2		
TNS	e P	Z	00:21:23.3	75.3	355.2	1.0	38	5.5		
WLF	e P	Z	00:21:25.7	75.7	353.9	1.5	76	5.6		
GRA1	e P	Z	00:21:27.4	75.9	356.9	1.2	57	5.6		
	e L	Z	01:02:44.7			18.7	546		4.9	
WET	e P	Z	00:21:30.8	76.5	357.9	1.3	22	5.1		
GEC2	e P	Z	00:21:32.3	76.8	358.4	1.0	14	5.1		
BFO	e P	Z	00:21:33.9	77.1	355.2	1.6	49	5.4		
FUR	e P	Z	00:21:35.9	77.4	357.0	1.5	53	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/11	07:19:30.1	10.350N	64.330W	33.0G	5.2			SZGRF

Near coast of Venezuela

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	07:30:35.9	69.5	261.8					
BUG	e P	Z	07:30:41.7	70.5	262.0	1.2	28	5.3		
IBBN	e P	Z	07:30:44.3	70.9	262.1	1.0	38	5.5		
TNS	e P	Z	07:30:45.3	71.1	263.4	0.7	38	5.6		
CLZ	e P	Z	07:30:53.7	72.4	264.4	0.8	15	5.1		
BSEG	e P	Z	07:30:54.6	72.6	263.7	0.9	14	5.1		
GRA1	e P	Z	07:30:55.7	72.8	265.7	2.1	104	5.6		
MOX	e P	Z	07:30:57.4	73.1	265.8	3.3	112	5.4		
TANN	e P	Z	07:31:00.8	73.6	266.5					
WET	e P	Z	07:31:01.8	73.8	267.2	0.9	9	4.8		
CLL	e P	Z	07:31:03.0	74.0	266.7	0.9	14	5.0		
GEC2	e P	Z	07:31:04.9	74.4	267.9	0.9	20	5.2		
BRG	e P	Z	07:31:06.5	74.6	267.5	0.9	14	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/11	21:29: 6.5	20.377S	177.581W	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:48:42.7	145.9	13.3					
CLZ	e PKPbc	Z	21:48:48.3	147.9	14.1					
CLL	e PKPbc	Z	21:48:48.3	148.0	18.9					
BRG	e PKPbc	Z	21:48:48.8	148.2	20.8					
BUG	e PKPbc	Z	21:48:50.1	148.7	8.8					
MOX	e PKPbc	Z	21:48:50.5	148.9	16.8					
TANN	e PKPbc	Z	21:48:50.5	148.9	18.5					
TNS	e PKPbc	Z	21:48:53.1	149.8	11.3					
GRA1	e PKPbc	Z	21:48:53.2	149.9	16.6					
	e PKPab	Z	21:49:00.9							
WET	e PKPbc	Z	21:48:53.5	150.0	19.9					
GEC2	e PKPbc	Z	21:48:53.5	150.1	21.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/11	23:38:35.3	1.910S	21.420W	17.4	5.5			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	23:48:14.5	56.5	216.5	1.1	74	5.6		
WLF	e P	Z	23:48:16.3	56.8	213.6	2.1	157	5.7		
FUR	e P	Z	23:48:22.4	57.6	219.8	1.3	209	6.0		
TNS	e P	Z	23:48:25.7	58.1	215.9	1.1	114	5.8		
BUG	e P	Z	23:48:29.6	58.6	214.2	1.1	59	5.5		
GRA1	e P	Z	23:48:30.3	58.7	219.1	1.1	95	5.7		
	e pP	Z	23:48:35.1							
	e S	N	23:56:32.1							
WET	e P	Z	23:48:32.4	59.0	221.1	1.0	71	5.6		
GEC2	e P	Z	23:48:33.4	59.1	222.1	1.1	61	5.5		
IBBN	e P	Z	23:48:35.8	59.5	214.4	1.4	89	5.6		
MOX	e P	Z	23:48:36.8	59.6	219.2	1.0	60	5.6		
TANN	e P	Z	23:48:37.9	59.8	220.1	1.1	52	5.5		
CLZ	e P	Z	23:48:39.8	60.1	217.4	1.3	27	5.1		
CLL	e P	Z	23:48:44.2	60.7	220.4	1.1	35	5.1		
BRG	e P	Z	23:48:44.3	60.8	221.5	1.1	22	4.9		
BSEG	e P	Z	23:48:50.8	61.7	216.6	1.2	80	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/12	05:25:20.8	35.790N	72.670E	33.0G	5.4			SZGRF

Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:33:26.1	44.0	86.5	1.0	32	5.0		
RGN	e P	Z	05:33:28.4	44.3	89.8					
GEC2	e P	Z	05:33:28.7	44.3	84.2	1.8	50	4.9		
CLL	e P	Z	05:33:30.1	44.6	86.3	1.2	29	5.1		
WET	e P	Z	05:33:32.8	44.8	84.0	2.1	62	5.2		
TANN	e P	Z	05:33:34.1	45.0	85.0	2.4	132	5.4		
WERN	e P	Z	05:33:34.7	45.0	84.8	2.0	76	5.3		
GUNZ	e P	Z	05:33:34.8	45.1	84.8	2.3	175	5.6		
WERD	e P	Z	05:33:34.8	45.1	84.9	1.2	26	5.0		
MOX	e P	Z	05:33:38.1	45.5	84.6	2.2	138	5.6		
GRA1	e P	Z	05:33:41.6	45.8	83.4	1.8	200	5.8		
FUR	e P	Z	05:33:42.2	46.0	81.9	1.6	154	5.8		
BSEG	e P	Z	05:33:42.6	46.0	86.8	1.1	42	5.4		
CLZ	e P	Z	05:33:43.4	46.1	84.8	1.3	43	5.3		
STU	e P	Z	05:33:52.2	47.3	81.2					
TNS	e P	Z	05:33:54.3	47.5	82.0	1.7	79	5.6		
IBBN	e P	Z	05:33:55.5	47.7	83.4					
BFO	e P	Z	05:33:56.2	47.9	80.2	1.2	21	5.1		
BUG	e P	Z	05:33:58.7	48.1	82.2	1.4	52	5.5		
WLF	e P	Z	05:34:06.5	49.1	79.9	1.2	68	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/12	06:08:21.0	20.500S	176.500W	33.0				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	06:28:04.8	146.2	11.5					
IBBN	e PKPab	Z	06:28:13.5	148.0	7.5					
CLZ	e PKPbc	Z	06:28:10.6	148.2	12.3					
	e PKPab	Z	06:28:14.0							
CLL	e PKPbc	Z	06:28:10.5	148.3	17.1					
BRG	e PKPbc	Z	06:28:11.2	148.5	19.0					
	e PKPab	Z	06:28:15.2							
NEUB	e PKPbc	Z	06:27:23.1	148.6	15.0					
MOX	e PKPbc	Z	06:28:12.9	149.2	15.0					
	e PKPab	Z	06:28:17.6							
UBBA	e PKPbc	Z	06:27:23.1	149.3	12.0					
WERD	e PKPbc	Z	06:28:13.1	149.3	16.3					
TANN	e PKPbc	Z	06:28:13.2	149.3	16.6					
GUNZ	e PKPbc	Z	06:28:13.4	149.3	16.4					
	e PKPab	Z	06:28:18.5							
WERN	e PKPbc	Z	06:28:13.7	149.4	16.5					
	e PKPab	Z	06:28:18.9							
TNS	e PKPbc	Z	06:28:14.8	150.0	9.3					
	e PKPab	Z	06:28:21.9							

GRA1	e PKPbc	Z	06:28:15.6	150.2	14.7
	e PKPab	Z	06:28:22.1		
GEC2	e PKPbc	Z	06:28:15.9	150.5	19.7
WLF	e PKPbc	Z	06:28:17.4	150.8	5.1
BFO	e PKPbc	Z	06:28:19.2	151.9	9.6
	e PKPab	Z	06:28:29.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/12	21:03:22.4	31.123N	103.134E	33.0G	5.3			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:14:09.3	65.9	69.7	1.0	13	5.1		
GEC2	e P	Z	21:14:15.2	66.7	68.7	1.2	14	5.1		
BSEG	e P	Z	21:14:15.7	66.9	68.4	0.9	24	5.4		
TANN	e P	Z	21:14:16.1	66.9	68.5	1.8	25	5.2		
WET	e P	Z	21:14:17.8	67.1	68.3	1.6	19	5.1		
MOX	e P	Z	21:14:18.6	67.3	68.0	1.3	16	5.1		
CLZ	e P	Z	21:14:20.6	67.6	67.6	1.0	24	5.4		
GRA1	e P	Z	21:14:22.9	67.9	67.4	0.9	29	5.5		
FUR	e P	Z	21:14:26.8	68.5	66.9	1.2	70	5.8		
STU	e P	Z	21:14:32.4	69.5	65.7	1.1	22	5.2		
BFO	e P	Z	21:14:36.5	70.2	65.0	1.6	37	5.3		
WLF	e P	Z	21:14:41.8	70.9	64.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/13								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z	00:47:32.6							
CLL	e PKP	Z	00:47:34.1							
FUR	e PKP	Z	00:47:34.7							
GEC2	e PKP	Z	00:47:31.6							
WET	e PKP	Z	00:47:33.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/13	08:35:18.8	83.670N	97.980E	24.9	5.3	4.7		SZGRF

North of Severnaya Zemlya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	08:42:22.4	36.3	10.7	1.8	150	5.5		
IBBN	e P	Z	08:42:38.1	38.2	10.3	1.7	154	5.4		
CLZ	e P	Z	08:42:40.0	38.3	10.2	1.7	164	5.4		

CLL	e P	Z	08:42:40.9	38.6	10.1	1.9	94	5.1	
BRG	e P	Z	08:42:43.8	38.9	10.1	2.3	148	5.2	
BUG	e P	Z	08:42:45.5	39.1	10.1	2.2	314	5.5	
MOX	e P	Z	08:42:48.2	39.4	10.0	2.0	165	5.3	
TANN	e P	Z	08:42:49.5	39.5	9.9	2.0	124	5.2	
TNS	e P	Z	08:42:54.7	40.1	9.8	1.8	126	5.2	
GRA1	e P	Z	08:42:56.6	40.4	9.8	2.0	268	5.6	
	e pP	Z	08:43:03.1						
	e L	Z	09:00:00.6			21.8	1150		4.7
WET	e P	Z	08:42:59.9	40.7	9.7	2.1	101	5.2	
GEC2	e P	Z	08:43:01.3	40.9	9.6	2.0	135	5.3	
WLF	e P	Z	08:43:01.3	40.9	9.7	1.6	75	5.2	
FUR	e P	Z	08:43:08.8	41.9	9.5	1.8	120	5.3	
BFO	e P	Z	08:43:09.8	42.0	9.5	2.0	92	5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/13	18:30:53.7	82.405N	119.101E	33.0G	5.1	5.0		SZGRF

North of Severnaya Zemlya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z	18:38:35.5	41.1	11.0	1.7	79	5.2		
BRG	e P	Z	18:38:39.0	41.7	11.1	3.2	206	5.3		
BUG	e P	Z	18:38:41.3	41.9	10.6	1.4	46	5.0		
MOX	e P	Z	18:38:43.6	42.2	10.8	1.5	54	5.1		
GRA1	e P	Z	18:38:52.1	43.1	10.6	2.0	126	5.3		
	e L	E	18:54:14.5			21.7	2160		5.0	
GEC2	e P	Z	18:38:56.5	43.7	10.6	1.2	20	4.7		
BFO	e P	Z	18:39:04.7	44.8	10.1	1.3	23	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/14	11:10:44.5	45.390N	145.771E	33.0G	5.8	4.9		SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:22:15.5	73.7	30.9	0.9	116	5.9		
NRDL	e P	Z	11:22:21.9	75.0	30.5					
CLL	e P	Z	11:22:23.0	75.1	32.2	0.6	132	6.1		
BRG	e P	Z	11:22:23.2	75.1	32.8	1.2	45	5.4		
CLZ	e P	Z	11:22:25.9	75.5	30.6	1.0	139	6.0		
IBBN	e P	Z	11:22:27.6	75.9	29.0	0.7	107	6.1		
TANN	e P	Z	11:22:28.5	76.0	31.8	0.8	20	5.3		
MOX	e P	Z	11:22:29.2	76.1	31.3	0.8	41	5.6		
UBBA	e P	Z	11:22:31.8	76.5	30.3					
BUG	e P	Z	11:22:32.4	76.8	28.6	0.9	128	6.0		
GEC2	e P	Z	11:22:33.7	76.9	32.4	0.8	43	5.6		

WET	e P	Z	11:22:34.1	77.0	31.9	0.9	105	6.0	
GRA1	e P	Z	11:22:34.7	77.0	30.9	0.9	19	5.2	
	e L	Z	12:02:20.6			18.7	570		4.9
GRFO	e P	Z	11:22:34.7	77.0	30.9				
TNS	e P	Z	11:22:36.8	77.5	29.2	0.8	142	6.1	
FUR	e P	Z	11:22:42.1	78.3	30.8	0.8	203	6.2	
STU	e P	Z	11:22:42.0	78.5	29.5				
WLF	e P	Z	11:22:44.3	78.7	27.6	0.9	47	5.5	
BFO	e P	Z	11:22:45.2	79.2	28.9	0.9	89	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/14	17:16:18.6	7.718N	38.480W	33.0G	5.2	4.1		SZGRF

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:26:14.5	58.9	242.0	1.3	35	5.2		
	e L	Z	17:50:14.8			20.6	165		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/14	22:56: 1.1	8.418N	80.938W	33.0G	5.3	5.0		SZGRF

Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	23:08:17.1	81.7	273.3	1.2	25	5.2		
BUG	e P	Z	23:08:19.6	82.3	273.9	1.4	18	5.0		
IBBN	e P	Z	23:08:20.9	82.6	274.1	1.2	26	5.3		
TNS	e P	Z	23:08:24.3	83.1	274.9	1.4	58	5.6		
BFO	e P	Z	23:08:23.8	83.2	275.1	1.2	17	5.2		
BSEG	e P	Z	23:08:27.7	83.9	276.0	1.2	14	5.1		
CLZ	e P	Z	23:08:29.5	84.2	276.2	1.3	42	5.5		
GRA1	e P	Z	23:08:33.5	85.0	277.1	1.2	37	5.5		
	e S	E	23:19:04.7							
	e SS	E	23:24:58.5							
	e L	Z	23:44:42.3			20.9	718		5.0	
MOX	e P	Z	23:08:33.9	85.1	277.3	1.2	14	5.1		
FUR	e P	Z	23:08:34.7	85.2	277.3	1.5	28	5.3		
TANN	e P	Z	23:08:36.9	85.7	278.0	1.2	21	5.2		
CLL	e P	Z	23:08:37.6	85.9	278.3	1.5	34	5.3		
WET	e P	Z	23:08:39.2	86.1	278.4	1.3	39	5.4		
BRG	e P	Z	23:08:40.9	86.5	279.1	1.6	31	5.2		
GEC2	e P	Z	23:08:41.7	86.7	279.0	1.4	17	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2008/08/15

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	02:55:57.8							
BSEG	e PKPdf	Z	02:55:57.2							
CLL	e PKPdf	Z	02:55:57.9							
CLZ	e PKPdf	Z	02:56:00.2							
GEC2	e PKPdf	Z	02:56:00.3							
WERD	e PKPdf	Z	02:55:59.9							
WET	e PKPdf	Z	02:56:01.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/15	10:25:27.1	14.300N	124.820E	33.0G	5.7	6.2		SZGRF

Luzon, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	10:38:25.5	90.3	64.4	1.2	97	5.9		
RUE	e P	Z	10:38:28.4	90.9	64.8	1.2	74	5.9		
BRG	e P	Z	10:38:31.0	91.5	64.9	1.5	63	5.7		
CLL	e P	Z	10:38:32.3	91.9	64.2	1.4	35	5.5		
BSEG	e P	Z	10:38:34.2	92.1	61.9	1.3	52	5.7		
GEC2	e P	Z	10:38:35.8	92.5	64.8	1.3	33	5.6		
TANN	e P	Z	10:38:36.0	92.6	63.8	1.5	24	5.4		
	e PP	Z	10:42:14.5							
WERD	e P	Z	10:38:36.2	92.6	63.7	2.0	68	5.7		
GUNZ	e P	Z	10:38:36.5	92.6	63.7	2.0	85	5.8		
WERN	e P	Z	10:38:36.6	92.7	63.7	1.9	50	5.6		
WET	e P	Z	10:38:37.7	92.9	64.2	1.6	50	5.7		
NRDL	e P	Z	10:38:36.9	92.9	61.8	1.5	87	6.0		
MOX	e P	Z	10:38:37.7	92.9	63.1	1.7	51	5.7		
CLZ	e P	Z	10:38:38.7	93.1	62.1	1.3	49	5.8		
GRA1	e P	Z	10:38:41.0	93.6	62.8	1.6	60	5.7		
	e L	Z	11:22:59.0			19.8	8108		6.2	
IBBN	e P	Z	10:38:44.0	94.2	59.9	1.8	139	6.0		
FUR	e P	Z	10:38:44.0	94.3	63.0	1.4	82	5.9		
	e PP	Z	10:42:32.6							
TNS	e P	Z	10:38:47.0	94.9	60.6	1.3	43	5.7		
	e PP	Z	10:42:38.5							
BUG	e P	Z	10:38:46.9	94.9	59.6	1.5	52	5.7		
	e PP	Z	10:42:38.8							
STU	e P	Z	10:38:47.9	95.2	61.3	1.5	67	5.8		
	e PP	Z	10:42:39.8							
BFO	e P	Z	10:38:50.9	95.9	60.7	1.5	30	5.6		
WLF	e P	Z	10:38:54.4	96.5	58.8	1.2	50	6.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/15	15:53: 2.2	81.174N	12.677W	10.0G	4.8	3.7		SZGRF

Near north coast of Kalaallit Nunaat

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z	15:59:12.6	30.2	353.1	1.4	9	4.4		
CLL	e P	Z	15:59:18.7	30.9	352.6	1.4	20	4.8		
BRG	e P	Z	15:59:23.2	31.4	352.4	1.3	12	4.7		
MOX	e P	Z	15:59:23.9	31.5	353.1	0.8	5	4.5		
WERD	e P	Z	15:59:26.0	31.7	352.9	1.2	16	4.8		
TANN	e P	Z	15:59:26.6	31.8	352.9	1.2	22	5.0		
GUNZ	e P	Z	15:59:27.0	31.8	352.9	1.4	19	4.8		
WERN	e P	Z	15:59:28.0	31.9	352.9	1.2	18	4.9		
GRA1	e P	Z	15:59:32.3	32.4	353.3	1.1	14	4.8		
	e L	Z	16:12:04.9			20.1	147		3.7	
WET	e P	Z	15:59:38.5	33.1	353.0	1.5	12	4.6		
STU	e P	Z	15:59:38.7	33.2	354.0	1.1	14	4.8		
GEC2	e P	Z	15:59:41.7	33.4	352.9	1.2	20	4.9		
BFO	e P	Z	15:59:42.1	33.6	354.3	1.6	28	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/16	04:01:14.0	51.978N	97.645E	33.0G	5.3	5.7		SZGRF

Tuva-Buryatia-Mongolia border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	04:09:44.8	47.4	56.4	0.8	68	5.8		
RUE	e P	Z	04:09:52.0	48.3	55.1	1.1	71	5.6		
	e S	R	04:16:51.3							
BRG	e P	Z	04:09:58.4	49.2	54.0	1.5	46	5.3		
	e S	R	04:17:03.3							
BSEG	e P	Z	04:09:58.7	49.2	54.4	1.0	73	5.6		
CLL	e P	Z	04:09:59.9	49.4	53.9	1.2	44	5.3		
	e S	R	04:17:06.4							
NRDL	e P	Z	04:10:05.0	50.1	53.3	1.2	51	5.3		
	e S	R	04:17:16.6							
TANN	e P	Z	04:10:06.5	50.2	53.0	1.5	39	5.1		
WERD	e P	Z	04:10:06.9	50.3	53.0	1.4	29	5.0		
GUNZ	e P	Z	04:10:07.3	50.3	52.9	1.5	40	5.1		
WERN	e P	Z	04:10:07.5	50.3	52.9	1.4	44	5.2		
CLZ	e P	Z	04:10:07.9	50.4	53.0	1.1	43	5.3		
	e S	R	04:17:21.2							
MOX	e P	Z	04:10:08.7	50.5	52.8	1.5	63	5.3		
	e S	R	04:17:21.7							
GEC2	e P	Z	04:10:08.8	50.5	52.5	1.7	36	5.0		
	e S	R	04:17:21.9							
WET	e P	Z	04:10:11.0	50.8	52.4	1.7	50	5.2		
	e S	R	04:17:25.4							

UBBA	e	S	R	04:17:31.4	51.2	52.2				
GRA1	e	P	Z	04:10:15.0	51.3	52.0	1.6	122	5.6	
	e	L	Z	04:33:59.4			18.8	7548		5.7
IBBN	e	P	Z	04:10:14.8	51.4	52.0	1.0	56	5.4	
BUG	e	P	Z	04:10:20.9	52.2	51.3	1.2	57	5.4	
FUR	e	P	Z	04:10:21.7	52.2	51.1	1.8	108	5.5	
TNS	e	P	Z	04:10:22.6	52.3	51.1	1.3	75	5.5	
	e	S	R	04:17:47.2						
STU	e	P	Z	04:10:26.3	52.9	50.5	1.2	60	5.4	
BFO	e	P	Z	04:10:31.4	53.6	49.9	1.5	36	5.2	
WLF	e	P	Z	04:10:33.8	53.8	49.7	1.8	49	5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/16	04:46:48.9	17.750S	175.600W	188.4				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	05:06:03.0	145.0	9.5					
IBBN	e PKPbc	Z	05:06:04.0	145.3	5.6					
CLZ	e PKPbc	Z	05:06:04.0	145.6	10.1					
CLL	e PKPbc	Z	05:06:04.4	145.8	14.7					
BRG	e PKPbc	Z	05:06:05.7	146.0	16.4					
BUG	e PKPbc	Z	05:06:05.9	146.2	4.9					
MOX	e PKPbc	Z	05:06:07.4	146.6	12.6					
	e pPKPbc	Z	05:06:55.7							
WERD	e PKPbc	Z	05:06:07.6	146.7	13.8					
	e pPKPbc	Z	05:06:56.1							
TANN	e PKPbc	Z	05:06:08.0	146.7	14.1					
	e pPKPbc	Z	05:06:56.3							
GUNZ	e PKPbc	Z	05:06:07.9	146.8	13.9					
	e pPKPbc	Z	05:06:56.9							
WERN	e PKPbc	Z	05:06:08.8	146.8	14.0					
	e pPKPbc	Z	05:06:56.7							
TNS	e PKPbc	Z	05:06:09.7	147.4	7.2					
GRA1	e PKPbc	Z	05:06:10.2	147.6	12.2					
GEC2	e PKPbc	Z	05:06:11.8	148.0	16.9					
WLF	e PKPbc	Z	05:06:12.0	148.1	3.2					
	e pPKPbc	Z	05:07:00.6							
FUR	e PKPbc	Z	05:06:14.6	149.1	12.8					
BFO	e PKPbc	Z	05:06:14.7	149.3	7.3					
	e pPKPbc	Z	05:07:03.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/16	07:25:51.9	4.500N	61.570E	33.0G	5.2	4.4		SZGRF

Carlsberg Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:35:54.4	60.1	121.4	1.3	8	4.6		
WET	e P	Z	07:35:58.4	60.7	120.8	1.4	8	4.5		
BRG	e P	Z	07:36:01.5	61.0	122.6	1.8	22	4.9		
FUR	e P	Z	07:36:02.2	61.1	118.8	1.1	61	5.5		
WERN	e P	Z	07:36:05.7	61.5	120.9	1.1	23	5.1		
TANN	e P	Z	07:36:05.6	61.6	121.0	2.2	70	5.3		
GUNZ	e P	Z	07:36:06.0	61.6	120.9	1.2	24	5.1		
WERD	e P	Z	07:36:06.1	61.7	120.9	2.8	131	5.5		
CLL	e P	Z	07:36:06.9	61.7	121.9	1.8	44	5.2		
	e S	R	07:44:27.8							
GRA1	e P	Z	07:36:07.0	61.9	119.5	1.1	18	5.0		
	e L	Z	08:06:39.4			19.5	299		4.4	
RUE	e P	Z	07:36:08.1	62.0	123.2	1.1	30	5.2		
	e S	R	07:44:30.1							
MOX	e P	Z	07:36:09.5	62.1	120.3	2.1	46	5.1		
	e S	R	07:44:32.9							
STU	e S	R	07:44:35.5	62.6	117.2					
BFO	e P	Z	07:36:15.2	62.9	116.2	1.6	49	5.3		
CLZ	e P	Z	07:36:18.5	63.4	119.7	1.3	31	5.2		
TNS	e P	Z	07:36:20.4	63.7	117.2	1.6	32	5.1		
NRDL	e P	Z	07:36:20.5	63.9	119.7	2.0	65	5.3		
BSEG	e P	Z	07:36:25.4	64.5	120.5	3.1	190	5.6		
	e S	R	07:45:00.4							
BUG	e P	Z	07:36:28.9	64.9	116.6	2.2	129	5.4		
IBBN	e P	Z	07:36:29.8	65.0	117.4	2.2	139	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/16	08:20:26.6	40.787N	142.208E	33.0G	4.6			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:32:32.1	79.8	35.5	1.0	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/16	21:29:35.2	15.667N	146.971E	35.0G				NEIC

Mariana Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	21:47:50.5	103.9	43.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/17	12:33:24.6	29.456S	179.117W	301.0G				NEIC

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	12:53:04.7	154.6	19.4					
NRDL	e PKPab	Z	12:53:09.5	156.0	20.1					
CLL	e PKPab	Z	12:53:12.3	156.4	27.1					
BRG	e PKPab	Z	12:53:13.1	156.5	29.5					
CLZ	e PKPab	Z	12:53:13.4	156.5	21.1					
IBBN	e PKPab	Z	12:53:13.3	156.6	15.2					
TANN	e PKPab	Z	12:53:17.1	157.3	26.9					
WERD	e PKPab	Z	12:53:17.0	157.3	26.6					
MOX	e PKPab	Z	12:53:16.8	157.3	24.9					
GUNZ	e PKPab	Z	12:53:17.4	157.4	26.7					
WERN	e PKPab	Z	12:53:17.7	157.4	26.9					
BUG	e PKPab	Z	12:53:16.9	157.5	14.7					
GEC2	e PKPab	Z	12:53:21.1	158.3	31.5					
WET	e PKPab	Z	12:53:21.6	158.3	29.3					
GRA1	e PKPab	Z	12:53:21.6	158.3	25.0					
TNS	e PKPab	Z	12:53:21.5	158.5	18.2					
WLF	e PKPab	Z	12:53:26.0	159.4	13.1					
FUR	e PKPab	Z	12:53:27.4	159.7	26.9					
STU	e PKPab	Z	12:53:26.8	159.7	21.2					
BFO	e PKPab	Z	12:53:29.5	160.3	19.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/17	14:25:25.0	14.053N	92.185W	33.0G	4.9			SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:38:10.9	87.7	289.2	1.1	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/17	20:46:49.8	12.819N	124.339E	37.0G	4.9	5.5		NEIC

Samar, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:00:06.4	94.5	64.1	1.2	7	4.9		
	e L	Z	21:44:27.5			20.6	1586		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/18	01:46:42.6	48.640N	152.730E	46.9	5.5	4.6		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	01:58:00.0	71.3	27.0	1.1	94	5.8		
BSEG	e P	Z	01:58:07.8	72.6	25.0	1.3	47	5.5		
RUE	e P	Z	01:58:09.9	73.0	27.0	1.2	92	5.8		
NRDL	e P	Z	01:58:14.4	74.0	24.7	1.4	36	5.2		
CLL	e P	Z	01:58:16.7	74.3	26.3	1.0	84	5.7		
	e pP	Z	01:58:30.1							
BRG	e P	Z	01:58:17.6	74.4	26.9	1.2	34	5.3		
CLZ	e P	Z	01:58:18.9	74.5	24.8	1.3	79	5.6		
IBBN	e P	Z	01:58:19.8	74.7	23.1	1.8	82	5.5		
WERD	e P	Z	01:58:22.9	75.3	25.8	1.2	40	5.4		
MOX	e P	Z	01:58:22.8	75.3	25.4	1.2	40	5.4		
GUNZ	e P	Z	01:58:23.3	75.3	25.8	1.0	34	5.4		
WERN	e P	Z	01:58:23.6	75.4	25.8	1.0	34	5.4		
BUG	e P	Z	01:58:24.9	75.7	22.7	2.2	125	5.7		
GRA1	e P	Z	01:58:28.7	76.2	25.1	1.0	73	5.8		
	e L	Z	02:36:04.4			21.0	346		4.6	
WET	e P	Z	01:58:28.9	76.3	26.0	1.1	44	5.5		
GEC2	e P	Z	01:58:28.5	76.3	26.5	1.1	20	5.2		
TNS	e P	Z	01:58:29.9	76.5	23.4	1.1	37	5.4		
WLF	e P	Z	01:58:36.3	77.6	21.9	0.8	17	5.2		
FUR	e P	Z	01:58:36.2	77.6	24.9	1.0	53	5.6		
STU	e P	Z	01:58:36.0	77.6	23.7	1.3	32	5.3		
BFO	e P	Z	01:58:39.5	78.3	23.1	1.1	25	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/18	02:21:21.8	52.650N	171.650W	33.0G	5.6			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	02:32:49.6	72.7	3.2	0.9	128	6.1		
BSEG	e P	Z	02:32:53.3	73.4	1.2	0.9	51	5.6		
RUE	e P	Z	02:33:01.2	74.8	3.4	0.9	76	5.7		
NRDL	e P	Z	02:33:00.3	74.8	1.1	0.9	30	5.3		
IBBN	e P	Z	02:33:02.7	75.0	359.6	1.1	92	5.7		
CLZ	e P	Z	02:33:05.6	75.5	1.3	0.9	58	5.6		
BUG	e P	Z	02:33:08.5	75.9	359.3	0.9	36	5.4		
CLL	e P	Z	02:33:07.6	76.0	2.9	0.7	37	5.5		
BRG	e P	Z	02:33:10.1	76.4	3.5	0.9	51	5.7		
MOX	e P	Z	02:33:11.9	76.7	2.0	0.8	48	5.7		
WERD	e P	Z	02:33:13.0	76.8	2.5	1.5	45	5.4		
GUNZ	e P	Z	02:33:13.6	76.9	2.5	2.0	100	5.6		
WERN	e P	Z	02:33:14.1	77.0	2.5	1.0	44	5.6		
TNS	e P	Z	02:33:14.4	77.1	0.1	1.0	44	5.6		
GRA1	e P	Z	02:33:17.8	77.6	1.8	0.9	97	5.9		
WLF	e P	Z	02:33:17.6	77.7	358.6	0.9	23	5.3		

WET	e	P	Z	02:33:20.4	78.1	2.8	1.4	53	5.5
GEC2	e	P	Z	02:33:21.6	78.4	3.3	1.0	40	5.5
STU	e	P	Z	02:33:22.4	78.6	0.5	1.0	46	5.5
BFO	e	P	Z	02:33:24.8	79.0	360.0	1.2	41	5.4
FUR	e	P	Z	02:33:25.8	79.2	1.8	1.5	110	5.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/18	09:54:22.9	19.750S	179.050W	560.9				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z	10:12:02.7	143.9	20.0					
BSEG	e PKPbc	Z	10:12:06.6	145.1	15.5					
RUE	e PKPbc	Z	10:12:08.4	145.8	21.8					
NRDL	e PKPbc	Z	10:12:09.5	146.5	15.7					
IBBN	e PKPbc	Z	10:12:12.2	147.0	11.8					
	e PKPab	Z	10:12:15.2							
CLL	e PKPdf	Z	10:12:09.4	147.0	21.2					
	e PKPbc	Z	10:12:12.0							
	e PKPab	Z	10:12:15.0							
CLZ	e PKPdf	Z	10:12:10.0	147.1	16.5					
	e PKPbc	Z	10:12:12.5							
	e PKPab	Z	10:12:15.5							
BRG	e PKPdf	Z	10:12:09.9	147.2	23.0					
	e PKPbc	Z	10:12:12.6							
	e PKPab	Z	10:12:16.0							
BUG	e PKPbc	Z	10:12:14.4	147.9	11.2					
	e PKPab	Z	10:12:18.5							
MOX	e PKPdf	Z	10:12:11.0	148.0	19.2					
	e PKPbc	Z	10:12:14.6							
	e PKPab	Z	10:12:18.8							
WERD	e PKPdf	Z	10:12:11.2	148.0	20.5					
	e PKPbc	Z	10:12:14.7							
	e PKPab	Z	10:12:19.1							
GUNZ	e PKPdf	Z	10:12:11.4	148.1	20.6					
	e PKPbc	Z	10:12:15.1							
	e PKPab	Z	10:12:19.6							
WERN	e PKPbc	Z	10:12:15.4	148.1	20.7					
	e PKPab	Z	10:12:19.9							
TNS	e PKPbc	Z	10:12:17.2	149.0	13.8					
	e PKPab	Z	10:12:22.9							
GRA1	e PKPbc	Z	10:12:17.3	149.0	19.0					
	e PKPab	Z	10:12:23.4							
	e pPKPbc	Z	10:14:26.3							
WET	e PKPdf	Z	10:12:12.8	149.1	22.3					
	e PKPbc	Z	10:12:17.4							
	e PKPab	Z	10:12:23.9							

GEC2	e PKPdf	Z	10:12:12.8	149.2	23.9	
	e PKPbc	Z	10:12:17.5			
	e pPKPab	Z	10:14:27.4			
WLF	e PKPdf	Z	10:12:14.8	149.8	9.8	
	e PKPbc	Z	10:12:19.9			
	e PKPab	Z	10:12:27.1			
STU	e PKPbc	Z	10:12:20.2	150.2	15.8	
	e PKPab	Z	10:12:28.2			
FUR	e PKPbc	Z	10:12:20.5	150.4	20.0	
	e PKPab	Z	10:12:29.1			
BFO	e PKPbc	Z	10:12:21.4	150.8	14.3	
	e PKPab	Z	10:12:30.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/18	14:11: 3.1	32.796N	93.220E	33.0G	4.5			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:21:11.9	60.7	72.6	1.2	9	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	08:33:59.5	7.970S	13.010W	33.0G	5.4	5.1		SZGRF

Ascension Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	08:43:56.9	59.4	204.8	1.2	46	5.4		
STU	e P	Z	08:44:01.2	60.0	205.6	1.3	39	5.3		
WLF	e P	Z	08:44:01.8	60.0	202.0	1.2	51	5.4		
FUR	e P	Z	08:44:02.2	60.1	208.0	1.2	94	5.7		
TNS	e P	Z	08:44:09.1	61.1	204.4	0.9	49	5.3		
GRA1	e P	Z	08:44:11.1	61.4	207.6	1.2	46	5.2		
	e L	Z	09:10:48.7			18.4	1360		5.1	
WET	e P	Z	08:44:11.5	61.4	209.5	1.1	31	5.0		
GEC2	e P	Z	08:44:11.8	61.5	210.4	1.4	38	5.0		
BUG	e P	Z	08:44:14.6	61.9	202.9					
WERN	e P	Z	08:44:17.2	62.3	208.7	1.3	37	5.5		
GUNZ	e P	Z	08:44:17.5	62.3	208.6	1.1	37	5.5		
MOX	e P	Z	08:44:17.7	62.4	207.8	1.0	29	5.4		
WERD	e P	Z	08:44:17.8	62.4	208.5	1.4	46	5.5		
TANN	e P	Z	08:44:18.1	62.4	208.7	1.1	31	5.4		
IBBN	e P	Z	08:44:21.0	62.8	203.2	1.1	35	5.4		
CLZ	e P	Z	08:44:22.6	63.1	206.2	0.9	17	5.2		
BRG	e P	Z	08:44:23.7	63.3	210.2	1.2	10	4.8		
CLL	e P	Z	08:44:24.3	63.4	209.1	1.4	20	5.1		
NRDL	e P	Z	08:44:25.6	63.6	205.7	1.4	57	5.5		

RUE	e P	Z	08:44:32.8	64.6	209.6	0.6	28	5.7
BSEG	e P	Z	08:44:34.7	65.0	205.6	1.0	52	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	10:58: 1.0	28.327S	112.833W	10.0G		5.4		NEIC

Easter Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPdf	Z	11:17:09.6	129.6	271.3					
BUG	e PKPdf	Z	11:17:10.6	130.3	273.7					
TNS	e PKPdf	Z	11:17:12.6	131.1	273.6					
BFO	e PKPdf	Z	11:17:12.5	131.1	271.9					
STU	e PKPdf	Z	11:17:13.5	131.6	272.9					
BSEG	e PKPdf	Z	11:17:13.6	131.8	278.5					
NRDL	e PKPdf	Z	11:17:12.9	131.9	277.0					
CLZ	e PKPdf	Z	11:17:14.7	132.1	276.7					
GRA1	e PKPdf	Z	11:17:16.3	132.9	275.4					
	e L	Z	12:11:57.3			19.3	779		5.4	
MOX	e PKPdf	Z	11:17:16.1	133.1	276.6					
WERD	e PKPdf	Z	11:17:17.1	133.5	277.0					
GUNZ	e PKPdf	Z	11:17:17.4	133.5	277.0					
WERN	e PKPdf	Z	11:17:17.4	133.6	276.9					
TANN	e PKPdf	Z	11:17:17.5	133.6	277.1					
CLL	e PKPdf	Z	11:17:17.5	133.8	278.4					
WET	e PKPdf	Z	11:17:18.0	134.0	276.2					
RUE	e PKPdf	Z	11:17:17.9	134.1	280.2					
BRG	e PKPdf	Z	11:17:18.9	134.5	278.8					
GEC2	e PKPdf	Z	11:17:19.0	134.6	276.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	13:37:28.0	14.980S	173.212W	10.0G		5.4		NEIC

Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	13:57:05.0	144.1	8.0					
WERD	e PKPbc	Z	13:57:05.4	144.3	9.1					
TANN	e PKPbc	Z	13:57:05.4	144.3	9.4					
GUNZ	e PKPbc	Z	13:57:05.9	144.3	9.2					
WERN	e PKPbc	Z	13:57:06.0	144.4	9.3					
TNS	e PKPbc	Z	13:57:06.8	144.7	2.8					
GRA1	e PKPbc	Z	13:57:07.9	145.1	7.5					
	e L	Z	15:02:33.2			21.9	727		5.4	
WLF	e PKPbc	Z	13:57:08.8	145.3	358.9					
WET	e PKPbc	Z	13:57:08.7	145.5	10.4					
GEC2	e PKPbc	Z	13:57:09.1	145.7	11.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	14:43: 3.7	35.321N	29.117E	10.0G	4.4			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:47:08.3	17.6	134.3	0.9	19	4.2		
WET	e P	Z	14:47:15.7	18.2	133.2	1.2	34	4.3		
BRG	e P	Z	14:47:24.7	19.0	139.0	1.2	15	4.1		
WERN	e P	Z	14:47:26.6	19.3	134.6	0.7	14	4.3		
TANN	e P	Z	14:47:27.9	19.3	135.0	1.1	17	4.2		
GUNZ	e P	Z	14:47:27.9	19.3	134.6	1.1	24	4.3		
GRA1	e P	Z	14:47:28.5	19.4	131.0	1.4	65	4.7		
WERD	e P	Z	14:47:28.5	19.4	134.8	0.8	16	4.3		
CLL	e P	Z	14:47:32.3	19.7	137.9	0.7	13	4.3		
MOX	e P	Z	14:47:35.8	19.9	133.8	1.1	30	4.4		
STU	e P	Z	14:47:34.1	19.9	125.2	0.9	42	4.7		
BFO	e P	Z	14:47:37.7	20.1	122.6	0.6	8	4.1		
RUE	e P	Z	14:47:39.5	20.3	141.6	1.3	92	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	16:30:13.0	15.110S	173.556W	8.0G		6.1		NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKP	Z	16:49:48.6	143.1	6.3					
CLL	e PKP	Z	16:49:48.8	143.4	10.7					
BUG	e PKP	Z	16:49:48.7	143.7	1.3					
BRG	e PKP	Z	16:49:47.2	143.7	12.3					
MOX	e PKP	Z	16:49:48.8	144.2	8.6					
WERN	e PKP	Z	16:49:49.3	144.5	9.9					
TNS	e PKP	Z	16:49:50.2	144.8	3.4					
GRA1	e PKP	Z	16:49:51.7	145.2	8.1					
	e L	Z	17:55:19.3			21.1	3063	6.1		
WLF	e PKP	Z	16:49:52.6	145.4	359.5					
WET	e PKP	Z	16:49:52.9	145.6	11.0					
GEC2	e PKP	Z	16:49:53.2	145.7	12.5					
STU	e PKP	Z	16:49:54.9	146.3	4.8					
FUR	e PKP	Z	16:49:56.4	146.7	8.5					
BFO	e PKP	Z	16:49:56.3	146.7	3.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	16:55:25.0	44.674N	11.146E	10.0G			3.2	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pn	Z	16:56:06.3	2.6	187.7					
DAVA	e Pn	Z	16:56:09.1	2.8	160.9					3.2
	e Sn	E	16:56:40.8							
OBKA	e Pn	Z	16:56:12.0	3.0	233.6					3.3
MOA	e Pn	Z	16:56:23.4	3.8	215.3					3.1
BFO	e Pn	Z	16:56:26.4	4.1	151.0					
	e Sn	E	16:57:10.1							
GEC2	e Pn	Z	16:56:31.0	4.5	203.7					
	e Sn	N	16:57:20.2							
WET	e Pn	Z	16:56:32.4	4.6	195.5					
	e Sn	N	16:57:22.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	21:19:53.6	38.904N	36.107W	33.0G	4.6			SZGRF

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:26:42.5	34.9	270.4	1.3	14	4.7		
WERN	e P	Z	21:26:49.5	35.6	270.4	1.5	19	4.7		
WET	e P	Z	21:26:52.1	36.0	272.4	1.5	16	4.6		
BRG	e P	Z	21:26:57.5	36.6	270.8	1.5	14	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/19	21:35:19.8	25.360N	97.540E	33.0G	5.4	4.2		SZGRF

Myanmar-China border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	21:46:06.1	66.5	78.5	1.3	70	5.7		
BRG	e P	Z	21:46:07.5	66.7	77.9	1.1	21	5.3		
CLL	e P	Z	21:46:10.2	67.2	77.4	1.2	17	5.1		
GEC2	e P	Z	21:46:11.5	67.3	76.9	1.4	38	5.4		
WET	e P	Z	21:46:14.3	67.7	76.5	0.8	15	5.3		
WERN	e P	Z	21:46:14.7	67.8	76.6	1.5	22	5.1		
WERD	e P	Z	21:46:14.5	67.8	76.6	1.3	15	5.1		
BSEG	e P	Z	21:46:17.5	68.2	76.5	1.1	38	5.5		
MOX	e P	Z	21:46:16.9	68.2	76.2	1.5	22	5.1		
NRDL	e P	Z	21:46:19.3	68.6	75.8	1.6	66	5.6		
CLZ	e P	Z	21:46:20.1	68.6	75.7	0.9	30	5.5		
GRA1	e P	Z	21:46:20.5	68.6	75.5	1.4	41	5.5		
	e L	Z	22:13:22.1			21.1	154		4.2	
FUR	e P	Z	21:46:22.3	69.0	75.0	1.6	64	5.6		
IBBN	e P	Z	21:46:28.9	70.1	74.0	1.4	39	5.4		

STU	e P	Z	21:46:29.3	70.2	73.8	1.4	59	5.5
TNS	e P	Z	21:46:29.7	70.2	73.8	1.5	55	5.5
BUG	e P	Z	21:46:32.0	70.6	73.3	1.2	28	5.3
BFO	e P	Z	21:46:33.0	70.8	73.0	1.2	14	5.0
WLF	e P	Z	21:46:39.9	71.8	72.0	1.5	94	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/20	06:21: 0.1	8.962N	83.577W	33.0G	5.0			SZGRF

Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:33:38.8	86.3	279.4	1.6	16	4.9		
WERD	e P	Z	06:33:41.3	86.8	280.2	1.7	24	5.0		
WERN	e P	Z	06:33:41.9	86.9	280.3	1.5	18	5.0		
WET	e P	Z	06:33:44.5	87.4	280.7	1.7	29	5.1		
BRG	e P	Z	06:33:46.1	87.7	281.5	1.2	8	4.9		
GEC2	e P	Z	06:33:47.3	88.0	281.4	1.7	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/21	06:53:12.4	23.800N	122.500E	37.0	4.9			NEIC

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:05:55.3	84.5	58.8	1.0	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/21	08:33:26.5	15.822S	172.435W	30.7				SZGRF

Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	08:52:58.4	145.0	6.8					
WERD	e PKPbc	Z	08:52:58.8	145.2	8.0					
WERN	e PKPbc	Z	08:52:59.6	145.3	8.2					
GRA1	e PKPbc	Z	08:53:02.4	146.0	6.3					
	e pPKPbc	Z	08:53:11.5							
WLF	e PKPbc	Z	08:53:02.9	146.1	357.6					
WET	e PKPbc	Z	08:53:03.4	146.4	9.3					
GEC2	e PKPbc	Z	08:53:03.8	146.6	10.8					
BFO	e PKPbc	Z	08:53:06.4	147.5	1.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/21	12:21: 8.6	24.813N	96.443E	33.0G	5.0			SZGRF

Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:31:54.3	66.4	79.1	1.3	11	4.9		
GEC2	e P	Z	12:31:58.3	67.0	78.1	1.4	16	5.1		
WERD	e P	Z	12:32:01.4	67.5	77.8	1.5	12	4.9		
GUNZ	e P	Z	12:32:01.5	67.5	77.8	1.4	14	5.0		
MOX	e P	Z	12:32:03.8	67.9	77.4	1.2	8	4.8		
GRA1	e P	Z	12:32:07.1	68.3	76.7	1.3	24	5.3		
NRDL	e P	Z	12:32:06.1	68.4	77.0	1.4	21	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/21	12:24:35.6	24.696N	97.420E	33.0G	5.9	5.9		SZGRF

Myanmar-China border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	12:35:24.2	66.9	79.1	1.6	259	6.2		
BRG	e P	Z	12:35:25.7	67.1	78.5	1.6	115	5.9		
CLL	e P	Z	12:35:28.4	67.6	78.0	1.6	87	5.7		
GEC2	e P	Z	12:35:29.6	67.7	77.5	1.8	152	5.9		
WET	e P	Z	12:35:32.5	68.1	77.1	1.8	144	5.9		
WERN	e P	Z	12:35:32.8	68.2	77.1	1.8	105	5.8		
WERD	e P	Z	12:35:32.6	68.2	77.2	1.6	79	5.7		
GUNZ	e P	Z	12:35:32.8	68.2	77.1	1.6	112	5.8		
MOX	e P	Z	12:35:35.0	68.6	76.7	1.6	84	5.7		
BSEG	e P	Z	12:35:35.6	68.6	77.0	1.5	154	6.0		
GRA1	e P	Z	12:35:38.5	69.0	76.1	1.8	256	6.1		
	e S	N	12:44:48.1							
	e SS	N	12:49:17.1							
	e L	Z	13:06:57.1			21.7	6803		5.9	
CLZ	e P	Z	12:35:38.2	69.1	76.3	1.6	174	6.0		
NRDL	e P	Z	12:35:37.4	69.1	76.3	2.2	461	6.3		
FUR	e P	Z	12:35:40.4	69.4	75.6	1.7	257	6.1		
IBBN	e P	Z	12:35:46.9	70.5	74.5	2.0	317	6.1		
STU	e P	Z	12:35:47.4	70.6	74.4	1.7	154	5.9		
TNS	e P	Z	12:35:47.8	70.6	74.3	1.3	70	5.6		
BUG	e P	Z	12:35:50.2	71.0	73.9	1.8	136	5.8		
BFO	e P	Z	12:35:51.1	71.2	73.6	1.7	77	5.5		
WLF	e P	Z	12:35:58.0	72.2	72.5	2.5	789	6.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/21	17:03:59.7	25.159S	177.732W	191.0G				NEIC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPab	Z	17:23:43.7	152.5	10.8					
CLL	e PKPbc	Z	17:23:33.0	152.6	21.5					
	e PKPab	Z	17:23:43.7							
BRG	e PKPbc	Z	17:23:33.5	152.8	23.6					
	e PKPab	Z	17:23:44.8							
MOX	e PKPab	Z	17:23:47.8	153.5	19.2					
WERD	e PKPab	Z	17:23:48.3	153.6	20.7					
GUNZ	e PKPab	Z	17:23:48.7	153.6	20.9					
WERN	e PKPab	Z	17:23:49.1	153.7	21.0					
TNS	e PKPab	Z	17:23:51.9	154.5	13.1					
GRA1	e PKPab	Z	17:23:52.7	154.5	19.1					
WET	e PKPab	Z	17:23:53.1	154.6	22.9					
GEC2	e PKPab	Z	17:23:53.1	154.7	24.8					
FUR	e PKPab	Z	17:23:58.7	155.9	20.3					
BFO	e PKPab	Z	17:23:59.8	156.3	13.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22	01:33:42.9	21.950S	171.440E	33.0G				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:53:15.3	145.0	31.5					
BRG	e PKPbc	Z	01:53:19.3	146.2	39.6					
CLL	e PKPbc	Z	01:53:19.1	146.2	37.8					
NRDL	e PKPbc	Z	01:53:18.5	146.3	32.3					
CLZ	e PKPbc	Z	01:53:21.3	146.7	33.3					
IBBN	e PKPbc	Z	01:53:22.3	147.1	28.7					
WERD	e PKPbc	Z	01:53:22.3	147.2	37.5					
GUNZ	e PKPbc	Z	01:53:22.6	147.2	37.6					
WERN	e PKPbc	Z	01:53:22.9	147.3	37.8					
MOX	e PKPbc	Z	01:53:22.4	147.3	36.3					
GEC2	e PKPbc	Z	01:53:24.1	147.8	41.3					
WET	e PKPbc	Z	01:53:24.5	147.9	39.7					
GRA1	e PKPbc	Z	01:53:25.3	148.2	36.5					
TNS	e PKPbc	Z	01:53:26.7	148.7	31.5					
FUR	e PKPbc	Z	01:53:28.4	149.4	38.1					
	e PKPab	Z	01:53:32.6							
STU	e PKPbc	Z	01:53:29.1	149.7	34.1					
WLF	e PKPbc	Z	01:53:30.4	150.0	28.1					
BFO	e PKPbc	Z	01:53:30.4	150.4	33.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22	05:22:52.3	35.908N	80.213E	33.0G	4.6			SZGRF

Kashmir-Xizang border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:31:48.1	50.6	78.2	0.9	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (Pdiff)	Z	07:34:59.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22	07:47:45.8	17.401S	64.273E	33.0G	5.6	5.2		SZGRF

Mauritius - Reunion region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:59:51.9	80.0	131.5	1.5	34	5.0		
WET	e P	Z	07:59:54.8	80.6	130.9	1.7	37	5.0		
FUR	e P	Z	07:59:56.9	80.8	129.5	1.3	227	6.0		
BRG	e P	Z	07:59:59.4	81.2	132.0	1.9	82	5.4		
WERN	e P	Z	08:00:01.5	81.6	130.6	1.8	84	5.5		
GUNZ	e P	Z	08:00:01.8	81.7	130.6	1.7	96	5.6		
WERD	e P	Z	08:00:02.1	81.7	130.6	1.6	54	5.4		
GRA1	e P	Z	08:00:01.7	81.8	129.6	1.1	94	5.8		
	e L	Z	08:38:20.2			20.5	1046		5.2	
CLL	e P	Z	08:00:03.2	82.0	131.3	1.5	63	5.5		
MOX	e P	Z	08:00:04.4	82.2	130.0	1.3	35	5.3		
STU	e P	Z	08:00:04.4	82.2	127.8	1.6	71	5.6		
RUE	e P	Z	08:00:05.2	82.4	132.0	0.8	40	5.6		
BFO	e P	Z	08:00:05.6	82.4	127.1	2.2	177	5.8		
TNS	e P	Z	08:00:11.3	83.5	127.4	1.9	141	5.9		
CLZ	e P	Z	08:00:11.5	83.6	129.1	1.9	132	5.8		
RGN	e P	Z	08:00:13.5	84.0	131.8	1.4	212	6.2		
NRDL	e P	Z	08:00:13.3	84.1	128.9	1.7	44	5.4		
WLF	e P	Z	08:00:15.5	84.4	125.5	1.1	39	5.5		
BUG	e P	Z	08:00:18.2	84.8	126.5	2.5	237	6.0		
BSEG	e P	Z	08:00:18.1	84.9	129.2	1.4	52	5.6		
IBBN	e P	Z	08:00:19.6	85.1	127.0	2.5	312	6.1		
HLG	e P	Z	07:59:15.2	86.2	127.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22	10:59:47.6	37.140N	141.700E	33.0G	5.7	4.8		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	11:11:46.6	78.2	39.7	1.2	177	6.1		
RUE	e P	Z	11:11:54.1	79.6	39.7	1.1	70	5.5		
BSEG	e P	Z	11:11:55.2	79.8	37.4	1.0	97	5.7		
BRG	e P	Z	11:12:00.0	80.8	39.7	1.1	57	5.5		
CLL	e P	Z	11:12:00.1	80.8	39.1	0.9	101	5.9		
NRDL	e P	Z	11:12:00.3	81.0	37.1	0.8	33	5.4		
NEUB	e P	Z	11:12:03.3	81.4	38.2	0.9	112	6.0		
CLZ	e P	Z	11:12:03.9	81.4	37.3	1.1	88	5.8		
WERD	e P	Z	11:12:05.4	81.8	38.5	0.8	23	5.4		
GUNZ	e P	Z	11:12:05.7	81.8	38.5	0.7	40	5.6		
WERN	e P	Z	11:12:06.1	81.9	38.5	0.7	43	5.7		
MOX	e P	Z	11:12:05.9	81.9	38.0	0.8	33	5.5		
IBBN	e P	Z	11:12:06.6	82.0	35.4	0.9	102	6.0		
ROTZ	e P	Z	11:12:08.8	82.3	38.4	0.8	39	5.7		
UBBA	e P	Z	11:12:08.1	82.4	36.9	0.8	17	5.3		
GEC2	e P	Z	11:12:08.5	82.4	39.3	0.6	28	5.6		
WET	e P	Z	11:12:09.6	82.5	38.8	1.0	24	5.4		
GRA1	e P	Z	11:12:11.1	82.8	37.7	0.8	143	6.2		
	e L	Z	11:50:20.8			21.4	485		4.8	
BUG	e P	Z	11:12:10.9	82.9	35.0	0.8	39	5.7		
TNS	e P	Z	11:12:14.1	83.4	35.8	0.8	42	5.7		
RJOB	e P	Z	11:12:15.5	83.7	38.6	1.0	45	5.6		
FUR	e P	Z	11:12:16.8	84.0	37.6	0.7	119	6.2		
STU	e P	Z	11:12:18.5	84.3	36.2	1.0	100	6.0		
WLF	e P	Z	11:12:21.1	84.7	34.1	1.0	29	5.5		
BFO	e P	Z	11:12:21.8	85.0	35.6	0.9	75	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22	12:06:13.0	23.823N	99.038E	33.0G	4.7			SZGRF

Myanmar-China border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:17:26.0	70.7	75.6	0.9	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/22	21:02:53.8	12.291S	75.476W	33.0G	5.6			SZGRF

Central Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:16:23.5	97.2	259.5	1.5	24	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2008/08/24 00:25:45.5 29.965N 130.848E 33.0G 4.7 SZGRF
Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:38:13.1	84.0	49.2	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/24	04:59:27.9	30.025N	51.431E	33.0G	4.6			SZGRF

Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:06:25.9	36.0	107.9	0.8	9	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/24	07:35:29.7	12.263N	60.830E	33.0G	4.8			SZGRF

Arabian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:44:59.2	55.1	114.9	1.1	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/24	15:34:39.9	22.340S	176.230W	33.0G				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	15:54:21.7	148.0	11.5					
NRDL	e PKPbc	Z	15:54:24.6	149.5	11.6					
IBBN	e PKPbc	Z	15:54:26.8	149.9	7.4					
CLZ	e PKPbc	Z	15:54:27.3	150.1	12.3					
CLL	e PKPbc	Z	15:54:27.2	150.2	17.4					
BRG	e PKPbc	Z	15:54:27.8	150.4	19.3					
NEUB	e PKPbc	Z	15:54:28.1	150.5	15.1					
BUG	e PKPbc	Z	15:54:28.8	150.8	6.6					
MOX	e PKPbc	Z	15:54:29.5	151.0	15.1					
WERD	e PKPbc	Z	15:54:29.8	151.1	16.5					
GUNZ	e PKPbc	Z	15:54:30.0	151.2	16.6					
WERN	e PKPbc	Z	15:54:30.2	151.2	16.7					
ROTZ	e PKPbc	Z	15:54:31.3	151.8	16.7					
TNS	e PKPbc	Z	15:54:31.8	151.9	9.2					
GRA1	e PKPbc	Z	15:54:31.8	152.0	14.8					
WET	e PKPbc	Z	15:54:32.5	152.2	18.3					
GEC2	e PKPbc	Z	15:54:32.2	152.3	20.1					
BFO	e PKPbc	Z	15:54:35.5	153.8	9.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/25	02:43:09.2	10.300N	125.200E	50.0	5.8			NEIC

Leyte, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:56:36.0	97.1	64.8	1.1	24	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/25	13:22: 0.4	30.920N	83.930E	33.0G	6.2	6.6		SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	13:31:23.8	54.2	84.2	1.5	506	6.3		
BRG	e P	Z	13:31:24.7	54.3	83.2	1.3	353	6.2		
	e S	T	13:39:01.4							
RGN	e P	Z	13:31:25.2	54.3	85.3	0.9	334	6.4		
GEC2	e P	Z	13:31:27.8	54.7	81.6	1.2	175	6.0		
	e S	T	13:39:08.7							
CLL	e P	Z	13:31:28.2	54.8	82.8	3.7	2179	6.6		
	e S	T	13:39:08.4							
WET	e P	Z	13:31:31.3	55.2	81.2	4.5	4879	6.8		
	e S	T	13:39:14.5							
WERN	e P	Z	13:31:32.6	55.3	81.6	1.4	153	5.8		
GUNZ	e P	Z	13:31:32.6	55.4	81.7	1.3	211	6.0		
WERD	e P	Z	13:31:32.5	55.4	81.7	1.4	199	6.0		
RJOB	e P	Z	13:31:32.8	55.5	80.2					
ROTZ	e P	Z	13:31:34.3	55.5	81.2	1.3	236	6.1		
NEUB	e P	Z	13:31:33.9	55.6	81.8	1.2	268	6.1		
MOX	e P	Z	13:31:35.4	55.8	81.4	1.0	106	5.8		
GRA1	e P	Z	13:31:38.9	56.2	80.4	1.7	672	6.4		
	e S	T	13:39:27.3							
	e L	Z	13:55:12.9			21.1	47256		6.6	
CLZ	e P	Z	13:31:39.8	56.4	81.3	1.3	355	6.2		
FUR	e P	Z	13:31:40.0	56.4	79.5	1.1	331	6.3		
NRDL	e P	Z	13:31:39.5	56.4	81.5	1.4	571	6.4		
UBBA	e P	Z	13:31:42.2	56.7	80.3	1.8	243	5.9		
HLG	e P	Z	13:31:47.9	57.5	80.9					
STU	e P	Z	13:31:48.5	57.6	78.5	1.5	313	6.1		
	e S	T	13:39:46.1							
TNS	e P	Z	13:31:50.0	57.8	78.9	1.2	233	6.1		
	e S	T	13:39:48.3							
IBBN	e P	Z	13:31:50.4	57.9	79.7	1.3	338	6.2		
BFO	e P	Z	13:31:52.5	58.3	77.6					
	e S	T	13:39:54.6							

BUG	e P	Z	13:31:53.6	58.3	78.8	1.2	228	6.1
WLF	e P	Z	13:32:01.3	59.4	77.0	1.4	277	6.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/25	19:13:58.8	32.407N	83.960E	33.0G	4.7			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:23:32.3	55.2	79.1	1.1	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/25	20:40:31.6	29.736N	86.411E	33.0G	4.8			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:50:25.3	58.5	79.8	1.7	17	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/26	01:57:41.7	52.386N	178.043E	33.0G	5.1			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:09:33.4	77.3	8.2	0.9	15	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/26	03:07:50.7	2.857S	101.942E	33.0G	5.5			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:20:59.4	92.6	91.3	1.4	30	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/26	21:00:37.0	8.970S	72.380W	139.7				SZGRF

Peru-Brazil border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	21:13:17.7	89.5	255.5					
	e pP	Z	21:13:53.3							
	e SKSac	R	21:23:33.4							

BFO	e P	Z	21:13:22.3	90.6	257.1
	e pP	Z	21:13:58.2		
	e SKSac	R	21:23:38.7		
BUG	e P	Z	21:13:22.5	90.6	256.4
	e pP	Z	21:13:58.0		
TNS	e P	Z	21:13:24.9	91.1	257.2
	e pP	Z	21:14:00.5		
	e SKSac	R	21:23:43.5		
IBBN	e P	Z	21:13:26.7	91.1	256.7
	e pP	Z	21:14:00.4		
STU	e P	Z	21:13:25.7	91.3	257.8
	e pP	Z	21:14:01.2		
	e SKSac	R	21:23:43.7		
HLG	e P	Z	21:13:29.2	91.6	256.9
UBBA	e P	Z	21:13:29.9	92.2	258.5
	e pP	Z	21:14:05.6		
	e SKSac	R	21:23:50.9		
FUR	e P	Z	21:13:31.9	92.5	259.3
	e pP	Z	21:14:07.5		
	e SKSac	R	21:23:52.0		
NRDL	e P	Z	21:13:32.6	92.6	258.6
	e pP	Z	21:14:06.5		
	e SKSac	R	21:23:51.3		
CLZ	e P	Z	21:13:32.0	92.6	258.8
	e pP	Z	21:14:07.7		
GRA1	e P	Z	21:13:33.1	92.7	259.3
	e pP	Z	21:14:08.5		
	e SKSac	R	21:23:55.2		
	e PKKP	Z	21:30:42.4		
	e PKPPKP	Z	21:38:46.9		
BSEG	e P	Z	21:13:33.2	93.0	258.8
	e pP	Z	21:14:08.9		
MOX	e P	Z	21:13:34.8	93.2	259.7
	e pP	Z	21:14:10.4		
NEUB	e P	Z	21:13:35.6	93.4	259.8
	e pP	Z	21:14:11.2		
ROTZ	e P	Z	21:13:36.3	93.4	260.1
	e pP	Z	21:14:11.8		
	e SKSac	R	21:23:57.8		
RJOB	e P	Z	21:13:36.1	93.4	260.4
	e pP	Z	21:14:12.0		
	e SKSac	R	21:23:56.7		
WERD	e P	Z	21:13:36.8	93.6	260.2
	e pP	Z	21:14:12.4		
GUNZ	e P	Z	21:13:37.1	93.6	260.2
	e pP	Z	21:14:12.6		
WERN	e P	Z	21:13:37.0	93.6	260.2
	e pP	Z	21:14:12.9		
WET	e P	Z	21:13:37.6	93.7	260.6

	e pP	Z	21:14:13.2			
CLL	e P	Z	21:13:38.8	94.1	260.8	
	e pP	Z	21:14:14.8			
GEC2	e P	Z	21:13:39.5	94.2	261.2	
	e pP	Z	21:14:15.2			
	e SKSac	R	21:24:01.6			
BRG	e P	Z	21:13:41.6	94.6	261.5	
	e pP	Z	21:14:17.4			
	e S	T	21:24:40.9			
RUE	e P	Z	21:13:41.5	94.8	261.5	
	e pP	Z	21:14:17.4			
RGN	e P	Z	21:13:42.3	94.8	261.3	
	e SKSac	R	21:24:04.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/26	23:54: 6.4	28.891N	86.149E	33.0G	5.0			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:04:02.9	59.0	80.7	1.8	30	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/27	01:35:29.6	52.280N	106.280E	33.0G	5.9	7.0		SZGRF

Lake Baykal, Russia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	01:44:32.3	51.2	51.6	1.2	178	5.9		
RUE	e P	Z	01:44:40.0	52.3	50.5	1.4	167	5.8		
BSEG	e P	Z	01:44:45.8	53.0	49.6	1.8	250	5.8		
BRG	e P	Z	01:44:46.7	53.3	49.7	1.7	216	5.8		
	e S	T	01:52:17.5							
CLL	e P	Z	01:44:47.9	53.4	49.5	1.3	78	5.5		
	e S	T	01:52:20.7							
HLG	e P	Z	01:44:52.9	53.9	48.5	1.2	251	6.0		
NRDL	e P	Z	01:44:52.1	54.0	48.7	1.7	225	5.8		
NEUB	e P	Z	01:44:52.9	54.1	48.8	1.8	328	6.0		
CLZ	e P	Z	01:44:55.4	54.3	48.5	1.3	91	5.5		
	e S	T	01:52:33.7							
MOX	e P	Z	01:44:56.5	54.5	48.5	1.4	215	6.0		
	e S	T	01:52:35.1							
GEC2	e P	Z	01:44:57.2	54.7	48.5	1.6	138	5.7		
	e S	T	01:52:38.4							
ROTZ	e P	Z	01:44:58.8	54.8	48.3	1.5	129	5.7		
WET	e P	Z	01:44:59.2	54.9	48.3	1.6	197	5.9		
	e S	T	01:52:40.7							

UBBA	e P	Z	01:45:01.1	55.2	47.8	1.8	244	5.9	
IBBN	e P	Z	01:45:01.4	55.2	47.5	1.4	119	5.7	
	e S	T	01:52:42.1						
GRA1	e P	Z	01:45:02.7	55.4	47.8	1.8	559	6.3	
	e S	T	01:52:49.1						
	e L	Z	02:11:04.9			18.8	121863		7.0
RJOB	e P	Z	01:45:06.4	55.9	47.5	1.5	126	5.7	
BUG	e P	Z	01:45:07.5	56.0	46.8	1.8	251	5.9	
	e S	T	01:52:55.0						
TNS	e P	Z	01:45:09.7	56.3	46.7	1.7	322	6.1	
	e S	T	01:53:00.2						
FUR	e P	Z	01:45:09.6	56.4	47.0	1.1	118	5.8	
STU	e P	Z	01:45:13.8	57.0	46.4	1.8	373	6.1	
BFO	e P	Z	01:45:18.7	57.7	45.8	1.6	178	5.8	
	e S	T	01:53:19.2						
WLF	e P	Z	01:45:20.3	57.8	45.4	2.2	204	5.8	
	e S	T	01:53:20.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/27	05:24:58.0	49.174N	148.661E	33.0G	6.0	5.0		SZGRF

Northwest of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	05:36:05.8	69.7	29.3	0.9	208	6.3		
BSEG	e P	Z	05:36:13.6	71.1	27.3	1.0	94	5.9		
RUE	e P	Z	05:36:15.5	71.4	29.3	1.0	185	6.2		
HLG	e P	Z	05:37:05.0	71.5	25.8					
NRDL	e P	Z	05:36:20.1	72.4	27.0	0.9	87	5.9		
CLL	e P	Z	05:36:22.3	72.6	28.6	0.9	188	6.2		
BRG	e P	Z	05:36:23.1	72.7	29.1	1.1	68	5.7		
CLZ	e P	Z	05:36:24.6	72.9	27.1	1.0	203	6.2		
NEUB	e P	Z	05:36:25.1	73.1	27.8	1.1	183	6.1		
WERD	e P	Z	05:36:28.3	73.6	28.1	1.1	85	5.7		
MOX	e P	Z	05:36:28.3	73.6	27.7	1.0	116	5.8		
GUNZ	e P	Z	05:36:29.0	73.7	28.1	0.9	83	5.8		
WERN	e P	Z	05:36:29.1	73.7	28.1	0.9	106	5.9		
UBBA	e P	Z	05:36:29.9	74.0	26.7	1.7	159	5.8		
BUG	e P	Z	05:36:30.7	74.1	25.1	1.1	178	6.0		
ROTZ	e P	Z	05:36:32.2	74.2	27.9	1.0	110	5.8		
WET	e P	Z	05:36:34.2	74.6	28.2	1.0	144	6.0		
GEC2	e P	Z	05:36:33.8	74.6	28.7	1.0	61	5.6		
GRA1	e P	Z	05:36:34.2	74.6	27.3	0.9	284	6.3		
	e L	Z	06:14:17.2			18.3	750		5.0	
TNS	e P	Z	05:36:35.5	74.9	25.7	0.9	209	6.2		
RJOB	e P	Z	05:36:41.3	75.9	28.0	0.9	84	5.9		
FUR	e P	Z	05:36:41.5	75.9	27.1	1.0	194	6.2		
STU	e P	Z	05:36:41.5	76.0	26.0	1.1	157	6.1		

WLF	e P	Z	05:36:44.2	76.1	24.2				
BFO	e P	Z	05:36:44.9	76.7	25.4	1.0	148	6.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/27	06:46:19.4	10.700S	41.400E	10.0F	5.7	4.9		NEIC

Comores region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:57:03.5	68.8	146.6	1.3	76	5.8		
	e L	Z	07:28:34.4			19.2	739		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/27	11:16:37.7	68.843N	16.290W	33.0G	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:21:43.4	23.3	335.1	1.7	19	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/27	19:59:32.6	49.392N	126.877W	33.0G	4.6			SZGRF

Vancouver Island, Canada, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:11:08.9	74.6	333.2	1.3	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/27	21:52:48.7	33.120N	46.120E	33.0G	5.2	5.1		SZGRF

Iran-Iraq border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	21:58:47.9	28.8	111.0	0.9	14	4.8		
RJOB	e P	Z	21:58:50.0	29.0	108.1	0.9	28	5.1		
WET	e P	Z	21:58:53.0	29.4	110.6	1.4	18	4.7		
BRG	e P	Z	21:58:53.6	29.4	114.7	0.8	17	4.9		
ROTZ	e P	Z	21:58:58.9	30.0	110.8	0.9	60	5.4		
FUR	e P	Z	21:58:58.6	30.1	107.1	0.7	202	6.1		
TANN	e P	Z	21:58:59.7	30.1	112.2	0.9	8	4.6		
CLL	e P	Z	21:58:59.6	30.1	114.2	0.9	15	4.8		
GUNZ	e P	Z	21:58:59.3	30.1	111.9	1.4	27	4.9		
WERD	e P	Z	21:58:59.4	30.2	112.0	0.8	11	4.7		
RUE	e P	Z	21:58:59.8	30.2	117.0	1.0	30	5.1		

PLN	e P	Z	21:59:01.2	30.3	111.9				
GRA1	e P	Z	21:59:03.5	30.6	109.6	1.6	176	5.7	
	e L	Z	22:15:16.9			20.0	4082		5.1
GRFO	e P	Z	21:59:03.5	30.6	109.6				
MOX	e P	Z	21:59:05.0	30.7	111.5	0.9	9	4.7	
NEUB	e P	Z	21:59:05.3	30.8	112.6	0.7	30	5.3	
RGN	e P	Z	21:59:10.4	31.4	119.5	1.2	285	6.1	
STU	e P	Z	21:59:11.6	31.5	105.9	0.8	18	5.1	
UBBA	e P	Z	21:59:13.6	31.7	110.0	1.4	28	5.0	
CLZ	e P	Z	21:59:15.4	31.8	111.9	0.7	55	5.6	
BFO	e P	Z	21:59:15.5	32.0	104.3	1.2	29	5.1	
NRDL	e P	Z	21:59:17.9	32.2	112.6	0.8	38	5.4	
TNS	e P	Z	21:59:20.0	32.4	107.3	1.3	47	5.3	
BSEG	e P	Z	21:59:22.6	32.7	114.9	0.8	34	5.3	
IBBN	e P	Z	21:59:30.1	33.5	109.6	1.0	76	5.6	
BUG	e P	Z	21:59:29.7	33.5	107.9	1.7	79	5.4	
HLG	e P	Z	21:59:34.7	34.1	112.4	1.4	338	6.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	00:43:13.7	3.288N	63.935E	33.0G	5.1			SZGRF

Carlsberg Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:53:40.0	63.3	121.1	1.9	20	4.9		
FUR	e P	Z	00:53:40.8	63.5	117.5	1.1	12	4.9		
WERN	e P	Z	00:53:44.2	63.9	119.4	1.1	14	5.1		
GUNZ	e P	Z	00:53:44.5	63.9	119.4	1.4	12	4.9		
CLL	e P	Z	00:53:45.1	64.0	120.4	1.3	9	4.9		
GRA1	e P	Z	00:53:45.7	64.2	118.1	1.2	14	5.1		
MOX	e P	Z	00:53:47.8	64.4	118.9	1.3	5	4.6		
NEUB	e P	Z	00:53:49.2	64.6	119.2	1.0	11	5.1		
BFO	e P	Z	00:53:53.6	65.3	114.9	1.2	18	5.2		
RGN	e P	Z	00:53:53.9	65.5	122.0	1.1	92	5.9		
CLZ	e P	Z	00:53:56.4	65.7	118.2	1.2	17	5.1		
TNS	e P	Z	00:53:58.5	66.0	115.8	1.5	27	5.2		
NRDL	e P	Z	00:53:58.4	66.2	118.2	1.3	10	4.9		
WLF	e P	Z	00:54:05.4	67.2	113.6	1.6	17	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	04:22:45.0	17.933S	176.127E	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	04:42:20.9	146.0	26.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	06:54: 6.0	6.200S	147.300E	56.0				NEIC

Eastern New Guinea, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPdf	Z	07:12:49.1	119.2	55.1					
RUE	e PKPdf	Z	07:12:50.8	120.2	56.5					
BRG	e PKPdf	Z	07:12:52.3	121.0	57.5					
BSEG	e PKPdf	Z	07:12:52.6	121.0	52.3					
CLL	e PKPdf	Z	07:12:52.5	121.2	56.3					
NEUB	e PKPdf	Z	07:12:54.0	121.9	55.1					
NRDL	e PKPdf	Z	07:12:53.4	122.0	52.8					
TANN	e PKPdf	Z	07:12:54.4	122.0	56.2					
WERD	e PKPdf	Z	07:12:54.4	122.1	56.1					
GUNZ	e PKPdf	Z	07:12:54.7	122.1	56.1					
WERN	e PKPdf	Z	07:12:54.7	122.1	56.2					
PLN	e PKPdf	Z	07:12:54.5	122.1	55.9					
GEC2	e PKPdf	Z	07:12:54.6	122.2	58.3					
CLZ	e PKPdf	Z	07:12:55.2	122.2	53.4					
MOX	e PKPdf	Z	07:12:54.8	122.3	55.3					
WET	e PKPdf	Z	07:12:55.4	122.5	57.3					
ROTZ	e PKPdf	Z	07:12:55.4	122.5	56.3					
GRA1	e PKPdf	Z	07:12:56.3	123.1	55.4					
GRFO	e PKPdf	Z	07:12:56.4	123.1	55.4					
IBBN	e PKPdf	Z	07:12:56.8	123.2	50.5					
RJOB	e PKPdf	Z	07:12:56.2	123.3	58.0					
FUR	e PKPdf	Z	07:12:57.9	123.9	56.3					
BUG	e PKPdf	Z	07:12:58.1	124.0	50.4					
TNS	e PKPdf	Z	07:12:58.6	124.2	52.3					
STU	e PKPdf	Z	07:12:59.5	124.7	53.8					
BFO	e PKPdf	Z	07:13:00.3	125.4	53.2					
WLF	e PKPdf	Z	07:13:02.2	125.7	50.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	07:22:54.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	07:45:16.9	11.519N	91.135E	33.7	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:56:43.6	73.0	92.5	1.0	8	4.8		
GEC2	e P	Z	07:56:44.2	73.1	91.7	0.9	5	4.6		
CLL	e P	Z	07:56:46.7	73.6	91.9	1.2	6	4.5		
WET	e P	Z	07:56:47.3	73.7	91.2	1.1	5	4.5		
WERN	e P	Z	07:56:49.5	74.0	91.2	1.0	6	4.6		
GUNZ	e P	Z	07:56:49.6	74.0	91.1	1.0	5	4.5		
WERD	e P	Z	07:56:49.4	74.0	91.1	1.0	5	4.5		
ROTZ	e P	Z	07:56:50.4	74.1	90.9	1.1	6	4.6		
MOX	e P	Z	07:56:52.0	74.5	90.7	1.3	8	4.6		
GRA1	e P	Z	07:56:53.9	74.7	90.1	1.0	8	4.7		
	e pP	Z	07:57:03.4							
	e sP	Z	07:57:07.6							
BSEG	e P	Z	07:56:57.2	75.3	90.5	1.0	11	4.8		
TNS	e P	Z	07:57:03.7	76.5	88.1	1.0	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	08:30:57.8	26.151N	101.768E	33.0G	5.8	6.0		SZGRF

Yunnan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	08:41:54.4	68.1	75.3	0.8	94	6.1		
RUE	e P	Z	08:41:55.9	68.4	74.8	1.1	111	6.0		
BRG	e P	Z	08:41:57.9	68.7	74.3	0.9	45	5.7		
CLL	e P	Z	08:42:00.4	69.1	73.8	1.1	53	5.7		
GEC2	e P	Z	08:42:02.5	69.4	73.4	1.0	35	5.5		
TANN	e P	Z	08:42:04.4	69.7	73.1	1.0	40	5.5		
WERD	e P	Z	08:42:04.8	69.8	73.0	0.9	39	5.5		
WERN	e P	Z	08:42:05.0	69.8	73.0	1.0	44	5.6		
GUNZ	e P	Z	08:42:05.0	69.8	73.0	0.9	63	5.7		
WET	e P	Z	08:42:05.3	69.8	73.0	1.0	39	5.5		
NEUB	e P	Z	08:42:05.3	69.9	72.9	0.9	92	5.9		
BSEG	e P	Z	08:42:06.2	69.9	72.8	0.9	98	5.9		
ROTZ	e P	Z	08:42:07.1	70.1	72.7	0.9	85	5.9		
MOX	e P	Z	08:42:07.0	70.2	72.6	1.2	46	5.5		
RJOB	e P	Z	08:42:08.1	70.3	72.4	0.9	54	5.7		
NRDL	e P	Z	08:42:08.5	70.5	72.1	1.0	101	5.9		
CLZ	e P	Z	08:42:09.7	70.5	72.1	1.0	96	5.9		
GRA1	e P	Z	08:42:10.8	70.7	72.0	1.1	87	5.8		
	e L	Z	09:15:45.3			19.3	8851		6.0	
GRFO	e P	Z	08:42:10.9	70.7	72.0	1.1	70	5.7		
FUR	e P	Z	08:42:13.5	71.1	71.5	0.9	136	6.1		
IBBN	e P	Z	08:42:17.9	71.9	70.4	0.8	72	5.8		
TNS	e P	Z	08:42:19.5	72.2	70.2	0.9	86	5.9		
STU	e P	Z	08:42:19.8	72.2	70.3	0.9	92	5.9		
BUG	e P	Z	08:42:21.3	72.5	69.8	1.0	67	5.7		
BFO	e P	Z	08:42:23.5	72.9	69.6	1.0	50	5.6		

WLF	e P	Z	08:42:29.5	73.8	68.5	1.0	147	6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	10:34: 6.4	28.600S	177.400W	53.0	5.1			NEIC

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	10:54:13.4	154.1	15.4					
NRDL	e PKPab	Z	10:54:18.2	155.5	15.8					
IBBN	e PKPab	Z	10:54:21.8	156.0	11.0					
CLL	e PKPab	Z	10:54:21.4	156.0	22.7					
CLZ	e PKPab	Z	10:54:22.1	156.1	16.8					
BRG	e PKPab	Z	10:54:22.4	156.2	25.1					
NEUB	e PKPab	Z	10:54:23.2	156.4	20.2					
MOX	e PKPab	Z	10:54:25.6	157.0	20.3					
TANN	e PKPab	Z	10:54:26.0	157.0	22.4					
WERD	e PKPab	Z	10:54:26.0	157.0	22.0					
GUNZ	e PKPab	Z	10:54:26.5	157.0	22.1					
WERN	e PKPab	Z	10:54:26.8	157.1	22.3					
ROTZ	e PKPab	Z	10:54:29.1	157.6	22.4					
GRA1	e PKPab	Z	10:54:30.4	157.9	20.3					
TNS	e PKPab	Z	10:54:30.1	157.9	13.5					
WET	e PKPab	Z	10:54:31.0	158.0	24.5					
GEC2	e PKPab	Z	10:54:30.8	158.1	26.6					
STU	e PKPdf	Z	10:53:57.8	159.2	16.3					
RJOB	e PKPab	Z	10:54:36.9	159.3	25.8					
FUR	e PKPab	Z	10:54:36.6	159.3	21.8					
BFO	e PKPab	Z	10:54:37.9	159.8	14.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	12:04:51.5	13.000N	124.300E	41.0	5.0	5.5		NEIC

Luzon, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	12:17:55.4	91.7	65.9					
BRG	e P	Z	12:17:57.9	92.3	66.1	1.9	19	5.1		
GEC2	e P	Z	12:18:02.6	93.2	66.0	1.4	6	4.9		
TANN	e P	Z	12:18:02.8	93.3	65.0	1.9	17	5.2		
WERD	e P	Z	12:18:03.3	93.4	64.8	2.5	49	5.4		
MOX	e P	Z	12:18:04.6	93.7	64.3	1.5	7	4.8		
NRDL	e P	Z	12:18:03.8	93.7	63.0	2.0	31	5.3		
CLZ	e P	Z	12:18:04.4	93.9	63.2	1.0	6	4.9		
RJOB	e P	Z	12:18:07.2	94.2	65.4	1.1	7	4.9		
GRA1	e P	Z	12:18:07.7	94.3	64.0	1.3	7	4.8		
	e L	Z	13:15:48.4			19.5	1514		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	12:46:49.9	42.565N	84.378E	33.0G	5.4	5.0		SZGRF

Northern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:55:18.5	47.1	71.3	1.6	72	5.5		
CLL	e P	Z	12:55:21.4	47.5	71.1	1.5	72	5.6		
GEC2	e P	Z	12:55:25.1	48.0	69.4	1.6	46	5.4		
TANN	e P	Z	12:55:26.8	48.2	70.0	1.5	57	5.5		
WERD	e P	Z	12:55:27.3	48.2	69.9	1.6	50	5.4		
WERN	e P	Z	12:55:27.6	48.3	69.8	1.6	52	5.4		
GUNZ	e P	Z	12:55:27.4	48.3	69.9	1.4	60	5.5		
NEUB	e P	Z	12:55:27.5	48.3	70.3	1.6	103	5.7		
WET	e P	Z	12:55:28.3	48.4	69.2	1.5	56	5.4		
ROTZ	e P	Z	12:55:29.9	48.5	69.3	1.6	53	5.3		
MOX	e P	Z	12:55:29.9	48.6	69.7	1.4	47	5.3		
NRDL	e P	Z	12:55:31.3	48.8	70.3	1.4	72	5.5		
CLZ	e P	Z	12:55:32.4	48.9	70.0	1.4	34	5.2		
GRA1	e P	Z	12:55:35.0	49.2	68.7	1.3	108	5.7		
	e L	Z	13:15:48.4			19.5	1515		5.0	
TNS	e P	Z	12:55:45.6	50.6	67.6	1.6	73	5.3		
BFO	e P	Z	12:55:51.3	51.4	66.1	1.4	49	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	14:48:24.2	7.000S	155.800E	85.0	5.0			NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z	15:07:16.1	125.0	48.1					
BSEG	e PKPdf	Z	15:07:17.1	125.5	43.6					
BRG	e PKPdf	Z	15:07:18.0	126.0	49.1					
CLL	e PKPdf	Z	15:07:18.1	126.2	47.9					
NRDL	e PKPdf	Z	15:07:18.3	126.6	44.0					
NEUB	e PKPdf	Z	15:07:19.4	126.8	46.6					
CLZ	e PKPdf	Z	15:07:20.2	127.0	44.7					
TANN	e PKPdf	Z	15:07:20.0	127.0	47.8					
WERD	e PKPdf	Z	15:07:20.1	127.1	47.6					
GUNZ	e PKPdf	Z	15:07:20.4	127.1	47.7					
WERN	e PKPdf	Z	15:07:20.4	127.1	47.7					
MOX	e PKPdf	Z	15:07:20.2	127.2	46.7					
GEC2	e PKPdf	Z	15:07:20.9	127.4	50.0					
ROTZ	e PKPdf	Z	15:07:21.1	127.6	47.9					
WET	e PKPdf	Z	15:07:21.2	127.7	48.9					
IBBN	e PKPdf	Z	15:07:21.3	127.7	41.5					

GRA1	e PKPdf	Z	15:07:21.8	128.1	46.8	
BFO	e PKPdf	Z	15:07:26.0	130.4	44.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	20:15:42.1	36.300N	138.800E	129.0	4.6			NEIC

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:27:51.5	82.3	40.1	1.3	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/30	21:31:16.5	31.000N	83.500E	33.0	4.7			GSRC

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:40:47.8	55.8	80.7	2.0	14	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	01:15:24.9	61.100S	68.000W	10.0		5.0		GSRC

Drake Passage

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPdf	Z	01:34:24.7	125.3	215.1					
	e L	Z	02:27:49.9			19.4	331		5.0	
WLF	e PKPdf	Z	01:34:25.8	125.6	214.9					
	e L	Z	02:21:48.1			21.8	426		5.1	
STU	e PKPdf	Z	01:34:26.3	126.0	215.6					
	e L	Z	02:28:19.0			19.5	310		5.0	
FUR	e PKPdf	Z	01:34:26.7	126.3	216.1					
	e L	Z	02:22:52.2			21.1	382		5.0	
RJOB	e PKPdf	Z	01:34:26.8	126.6	216.4					
	e L	Z	02:22:55.8			22.0	475		5.1	
TNS	e PKPdf	Z	01:34:28.5	126.9	216.0					
	e L	Z	02:27:21.4			19.8	541		5.2	
BUG	e PKPdf	Z	01:34:29.3	127.4	216.1					
	e L	Z	02:23:05.8			21.6	344		5.0	
GRFO	e PKPdf	Z	01:34:29.0	127.5	216.8					
GRA1	e PKPdf	Z	01:34:29.3	127.5	216.8					
	e L	Z	02:22:36.7			21.6	307		4.9	
WET	e PKPdf	Z	01:34:29.0	127.7	217.1					
	e L	Z	02:25:16.2			21.4	372		5.0	
GEC2	e PKPdf	Z	01:34:29.3	127.8	217.3					
	e L	Z	02:27:41.1			20.2	256		4.9	

ROTZ	e PKPdf	Z	01:34:29.7	128.0	217.2				
	e L	Z	02:23:37.9			21.6	260	4.9	
IBBN	e PKPdf	Z	01:34:31.0	128.3	216.7				
	e L	Z	02:22:56.5			22.0	527	5.2	
MOX	e PKPdf	Z	01:34:30.9	128.4	217.4				
	e L	Z	02:30:52.1			19.3	317	5.0	
WERN	e PKPdf	Z	01:34:31.0	128.5	217.5				
GUNZ	e PKPdf	Z	01:34:31.0	128.5	217.5				
WERD	e PKPdf	Z	01:34:31.1	128.6	217.5				
TANN	e PKPdf	Z	01:34:31.2	128.6	217.6				
	e L	Z	02:28:50.5			20.7	231	4.8	
CLZ	e PKPdf	Z	01:34:32.3	128.9	217.5				
	e L	Z	02:26:10.4			21.4	368	5.0	
NEUB	e PKPdf	Z	01:34:31.7	128.9	217.7				
	e L	Z	02:27:52.3			20.1	237	4.9	
NRDL	e PKPdf	Z	01:34:31.8	129.3	217.7				
	e L	Z	02:27:19.7			20.7	350	5.0	
CLL	e PKPdf	Z	01:34:32.5	129.5	218.2				
	e L	Z	02:27:27.4			20.1	296	5.0	
BRG	e PKPdf	Z	01:34:32.9	129.5	218.3				
	e L	Z	02:24:00.8			21.9	439	5.1	
HLG	e L	Z	02:23:47.8	129.9	217.6	22.0	401	5.1	
BSEG	e PKPdf	Z	01:34:35.1	130.5	218.5				
	e L	Z	02:26:01.7			19.7	259	4.9	
RUE	e PKPdf	Z	01:34:35.0	130.7	219.1				
RGN	e L	Z	02:28:49.0	132.1	220.1	20.3	431	5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	08:07:20.6	20.236S	173.092W	33.0G				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	08:26:58.4	146.2	5.8					
RUE	e PKPbc	Z	08:27:01.0	147.3	12.0					
NRDL	e PKPbc	Z	08:27:00.8	147.6	5.6					
IBBN	e PKPbc	Z	08:27:03.1	147.9	1.5					
CLZ	e PKPbc	Z	08:27:03.4	148.3	6.2					
CLL	e PKPbc	Z	08:27:04.2	148.6	11.0					
NEUB	e PKPbc	Z	08:27:05.1	148.8	8.8					
BUG	e PKPbc	Z	08:27:05.0	148.8	0.7					
BRG	e PKPbc	Z	08:27:05.1	148.9	12.8					
MOX	e PKPbc	Z	08:27:06.2	149.4	8.7					
WERD	e PKPbc	Z	08:27:06.7	149.5	10.0					
TANN	e PKPbc	Z	08:27:06.6	149.5	10.3					
GUNZ	e PKPbc	Z	08:27:07.0	149.6	10.1					
WERN	e PKPbc	Z	08:27:07.2	149.6	10.2					
TNS	e PKPbc	Z	08:27:07.8	150.0	2.9					

ROTZ	e PKPbc	Z	08:27:08.4	150.2	10.0	
GRA1	e PKPbc	Z	08:27:08.5	150.3	8.2	
GEC2	e PKPbc	Z	08:27:09.7	150.9	13.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	08:24:54.6	39.825N	96.565E	33.0G	4.4			SZGRF

Gansu, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:34:41.5	58.1	64.4	1.0	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	08:31:18.0	26.436N	101.469E	33.0G	5.5	5.5		SZGRF

Yunnan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	08:42:13.8	68.0	74.8	1.2	67	5.8		
BRG	e P	Z	08:42:15.8	68.3	74.3	1.1	23	5.3		
CLL	e P	Z	08:42:18.2	68.7	73.8	1.1	34	5.5		
GEC2	e P	Z	08:42:20.4	69.0	73.4	1.1	20	5.3		
TANN	e P	Z	08:42:22.2	69.3	73.1	1.0	18	5.3		
WERD	e P	Z	08:42:22.7	69.4	73.0	1.1	23	5.2		
WERN	e P	Z	08:42:23.0	69.4	73.0	1.0	23	5.2		
GUNZ	e P	Z	08:42:22.9	69.4	73.0	1.0	27	5.3		
WET	e P	Z	08:42:23.2	69.4	72.9	1.1	25	5.2		
NEUB	e P	Z	08:42:23.4	69.5	72.9	1.1	60	5.6		
BSEG	e P	Z	08:42:24.2	69.6	72.8	1.1	59	5.6		
ROTZ	e P	Z	08:42:24.9	69.7	72.7	1.1	54	5.6		
MOX	e P	Z	08:42:25.0	69.8	72.6	1.3	32	5.3		
RJOB	e P	Z	08:42:26.0	69.9	72.4	1.3	31	5.3		
NRDL	e P	Z	08:42:26.5	70.1	72.2	1.1	58	5.6		
CLZ	e P	Z	08:42:27.6	70.2	72.1	1.1	61	5.7		
GRA1	e P	Z	08:42:28.7	70.3	72.0	1.3	73	5.7		
	e L	Z	09:16:03.8			18.0	2471		5.5	
FUR	e P	Z	08:42:31.5	70.8	71.5	1.1	72	5.7		
IBBN	e P	Z	08:42:35.9	71.5	70.4	1.2	45	5.5		
TNS	e P	Z	08:42:37.5	71.8	70.2	1.0	47	5.6		
STU	e P	Z	08:42:37.8	71.9	70.3	1.0	51	5.6		
BUG	e P	Z	08:42:39.2	72.1	69.8	1.0	40	5.5		
BFO	e P	Z	08:42:41.5	72.5	69.6	1.2	35	5.4		
WLF	e P	Z	08:42:47.5	73.4	68.5	1.1	115	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	09:34:59.1	26.893N	102.436E	33.0G	4.5			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:46:11.4	70.6	71.0	1.0	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	11:29:17.9	23.270S	178.280W	33.0G				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	11:49:01.6	148.7	15.3					
IBBN	e PKPbc	Z	11:49:06.2	150.6	11.4					
CLL	e PKPbc	Z	11:49:06.5	150.6	21.5					
CLZ	e PKPbc	Z	11:49:06.9	150.7	16.4					
BRG	e PKPbc	Z	11:49:07.3	150.8	23.5					
NEUB	e PKPbc	Z	11:49:07.4	151.0	19.3					
MOX	e PKPbc	Z	11:49:08.7	151.6	19.4					
TANN	e PKPbc	Z	11:49:08.9	151.6	21.1					
WERD	e PKPbc	Z	11:49:09.1	151.6	20.8					
GUNZ	e PKPbc	Z	11:49:09.4	151.7	20.9					
	e PKPab	Z	11:49:17.9							
WERN	e PKPbc	Z	11:49:09.5	151.7	21.0					
	e PKPab	Z	11:49:18.4							
ROTZ	e PKPbc	Z	11:49:10.4	152.3	21.1					
TNS	e PKPbc	Z	11:49:11.0	152.5	13.5					
GRA1	e PKPbc	Z	11:49:10.8	152.5	19.2					
WET	e PKPab	Z	11:49:22.3	152.7	22.8					
GEC2	e PKPbc	Z	11:49:11.4	152.7	24.6					
WLF	e PKPbc	Z	11:49:13.3	153.4	9.1					
	e PKPab	Z	11:49:25.1							
FUR	e PKPab	Z	11:49:27.8	154.0	20.3					
RJOB	e PKPab	Z	11:49:28.4	154.0	23.7					
BFO	e PKPab	Z	11:49:28.9	154.4	14.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	12:12: 0.4	6.200S	147.400E	78.0	4.8			NEIC

Eastern New Guinea, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	12:30:44.3	121.2	57.3					
CLL	e PKP	Z	12:30:44.6	121.4	56.2					
NRDL	e PKPdf	Z	12:30:46.3	122.2	52.6					
WERN	e PKP	Z	12:30:46.7	122.3	56.1					
PLN	e PKP	Z	12:30:46.5	122.3	55.8					

GEC2	e PKPdf	Z	12:30:46.7	122.4	58.1
CLZ	e PKPdf	Z	12:30:46.3	122.4	53.3
MOX	e PKPdf	Z	12:30:46.8	122.5	55.1
RJOB	e PKPdf	Z	12:30:48.3	123.5	57.9
BUG	e PKPdf	Z	12:30:49.3	124.2	50.2
STU	e PKPdf	Z	12:30:51.6	124.9	53.7
BFO	e PKPdf	Z	12:30:52.5	125.6	53.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/08/31	23:56:40.3	34.800N	23.300E	106.0	3.6			THE-M

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:00:40.6	17.3	144.8	1.0	6	3.6		

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-analysis).
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