

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

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(produced by SZGRF/BGR - ERLANGEN)

JULY 2008

UPDATED 23.OCTOBER.2008

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source		
2008/07/01	23:15:21.9	46.500N	148.500E	33.0N	5.1	4.4		SZGRF		
Northwest of Kuril Islands, Russia										
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:26:53.3	73.5	28.6	1.0	13	4.9		
NRDL	e P	Z	23:27:00.9	74.8	28.3	1.1	10	4.8		
CLL	e P	Z	23:27:01.2	75.0	30.0	1.0	31	5.3		
BRG	e P	Z	23:27:01.9	75.1	30.5	1.3	13	4.8		
CLZ	e P	Z	23:27:03.9	75.3	28.4	1.3	34	5.3		
IBBN	e P	Z	23:27:05.3	75.6	26.7	1.2	27	5.2		
TANN	e P	Z	23:27:06.8	75.9	29.5	1.1	10	4.8		
MOX	e P	Z	23:27:07.3	76.0	29.0	1.2	16	5.0		
UBBA	e P	Z	23:27:09.3	76.3	28.0	1.5	12	4.8		
BUG	e P	Z	23:27:10.4	76.5	26.3	1.1	18	5.1		
WET	e P	Z	23:27:12.9	76.9	29.6	1.1	31	5.4		
GRA1	e P	Z	23:27:13.1	76.9	28.6	1.0	41	5.5		
TNS	e P	Z	23:27:14.7	77.3	26.9	1.1	22	5.2		
RJOB	e P	Z	23:27:19.8	78.1	29.4	1.0	14	5.0		
FUR	e P	Z	23:27:20.2	78.3	28.5	1.0	28	5.3		
STU	e P	Z	23:27:20.4	78.4	27.3	0.8	15	5.1		
WLF	e P	Z	23:27:22.0	78.5	25.4	1.5	26	5.0		
BFO	e P	Z	23:27:23.9	79.0	26.7	1.2	16	4.9		
GRA1	e L	Z	00:06:27.7	76.9	28.6	18.6	164		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/01	00:17:26.0	10.300S	75.500W	33.0		5.2		NEIC
Central Peru								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e SP	Z	00:42:46.1	92.5	257.0					
	e SS	R	00:47:57.8							
BUG	e SP	Z	00:42:59.7	93.6	258.0					
	e SS	R	00:48:13.9							
BFO	e SP	Z	00:42:58.3	93.6	258.6					
	e SS	R	00:48:16.0							
TNS	e SP	Z	00:43:04.9	94.1	258.8					
	e SS	R	00:48:22.4							
STU	e SP	Z	00:43:05.8	94.3	259.2					
	e SS	R	00:48:24.5							
UBBA	e SP	Z	00:43:17.4	95.2	260.0					
	e SS	R	00:48:37.4							
NRDL	e SP	Z	00:43:20.4	95.5	260.2					
	e SS	R	00:48:41.2							
FUR	e SP	Z	00:43:20.9	95.5	260.7					
	e SS	R	00:48:45.3							
CLZ	e SP	Z	00:43:22.9	95.6	260.4					
	e SS	R	00:48:43.5							
GRA1	e SP	Z	00:43:23.2	95.7	260.8					
	e SS	R	00:48:46.9							
	e L	Z	01:09:59.8			21.6	961		5.2	
BSEG	e SP	Z	00:43:24.5	95.9	260.6					
	e SS	R	00:48:46.8							
MOX	e SP	Z	00:43:28.4	96.1	261.2					
	e SS	R	00:48:52.9							
RJOB	e SP	Z	00:43:32.4	96.5	261.8					
	e SS	R	00:49:00.4							
TANN	e SP	Z	00:43:33.6	96.6	261.8					
	e SS	R	00:49:00.8							
WET	e SP	Z	00:43:34.6	96.7	262.0					
	e SS	R	00:49:01.9							
CLL	e SP	Z	00:43:39.2	97.1	262.4					
	e SS	R	00:49:07.6							
GEC2	e SP	Z	00:43:38.8	97.2	262.6					
	e SS	R	00:49:07.6							
BRG	e SP	Z	00:43:43.5	97.6	263.0					
	e SS	R	00:49:16.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/01	01:54:41.5	58.100S	21.900W	10.0N		5.3		NEIC
East of South Sandwich Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z	02:54:49.0	111.2	198.0	21.7	828		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/01	08:49:16.0	16.442N	91.739W	33.0N	5.1			SZGRF

Mexico-Guatemala border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:01:51.5	85.6	290.4	1.9	27	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/01	15:13:44.8	23.780S	179.770W	545.1				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 15:32:31.0	148.9	18.1					
NRDL	e PKPbc	Z 15:32:34.3	150.3	18.5					
	e pPKPbc	Z 15:34:41.4							
CLL	e PKPbc	Z 15:32:35.2	150.8	24.5					
	e pPKPbc	Z 15:34:41.6							
CLZ	e PKPbc	Z 15:32:36.0	150.9	19.3					
	e PKPab	Z 15:32:45.0							
	e pPKPbc	Z 15:34:42.3							
IBBN	e PKPbc	Z 15:32:35.8	150.9	14.3					
	e PKPab	Z 15:32:45.1							
BRG	e PKPbc	Z 15:32:35.7	150.9	26.5					
	e pPKPbc	Z 15:34:41.7							
TANN	e PKPbc	Z 15:32:37.6	151.7	24.2					
	e pPKPbc	Z 15:34:45.4							
MOX	e PKPbc	Z 15:32:37.6	151.7	22.4					
	e PKPab	Z 15:32:48.6							
	e pPKPbc	Z 15:34:44.5							
BUG	e pPKPbc	Z 15:34:44.0	151.8	13.7					
GRA1	e PKPab	Z 15:32:53.3	152.7	22.4					
WET	e PKPbc	Z 15:32:39.8	152.8	26.0					
GEC2	e PKPbc	Z 15:32:39.8	152.8	27.8					
	e PKPab	Z 15:32:54.3							
TNS	e PKPbc	Z 15:32:40.3	152.8	16.6					
	e PKPab	Z 15:32:53.5							
WLF	e PKPbc	Z 15:32:42.7	153.7	12.3					
FUR	e PKPab	Z 15:33:00.1	154.1	23.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/01	15:50:45.9	54.446N	169.779W	33.0N	5.1			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e P	Z	16:02:04.7	71.6	0.1	1.7	40	5.3
RUE	e P	Z	16:02:13.0	73.0	2.2	0.5	32	5.7
NRDL	e P	Z	16:02:12.9	73.1	359.9	1.4	16	5.0
IBBN	e P	Z	16:02:14.1	73.2	358.5	1.2	29	5.2
CLZ	e P	Z	16:02:16.9	73.7	0.1	1.7	44	5.2
BUG	e P	Z	16:02:19.1	74.1	358.2	1.5	42	5.2
CLL	e P	Z	16:02:19.3	74.2	1.7	1.4	18	4.9
BRG	e P	Z	16:02:21.7	74.6	2.2	1.3	16	4.9
UBBA	e P	Z	16:02:23.0	74.7	359.9	1.6	19	4.9
MOX	e P	Z	16:02:23.3	74.9	0.8	1.5	26	5.1
WERD	e P	Z	16:02:24.8	75.1	1.3	1.6	21	4.9
TANN	e P	Z	16:02:25.0	75.1	1.3	1.7	26	5.0
GUNZ	e P	Z	16:02:25.5	75.2	1.3	1.8	30	5.1
TNS	e P	Z	16:02:25.8	75.3	358.9	1.4	28	5.2
WLF	e P	Z	16:02:28.9	75.8	357.6	1.4	26	5.2
GRA1	e P	Z	16:02:29.4	75.9	0.6	1.5	64	5.5
WET	e P	Z	16:02:32.4	76.4	1.6	1.5	20	5.0
GEC2	e P	Z	16:02:33.7	76.7	2.1	1.5	27	5.2
STU	e P	Z	16:02:33.8	76.8	359.4	1.5	36	5.3
BFO	e P	Z	16:02:36.4	77.2	358.9	1.3	19	5.1
FUR	e P	Z	16:02:38.3	77.4	0.6	1.6	79	5.6
RJOB	e P	Z	16:02:40.0	77.8	1.5	1.1	9	4.8

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/02

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 02:11:28.5							
BSEG	e PKP	Z 02:11:27.5							
CLL	e PKP	Z 02:11:28.6							
CLZ	e PKP	Z 02:11:30.5							
GRA1	e PKP	Z 02:11:32.8							
NRDL	e PKP	Z 02:11:29.6							
TNS	e PKP	Z 02:11:34.6							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/02 12:46: 3.2 19.740S 177.700W 587.0G  
Fiji Islands region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 13:04:35.2	145.3	13.3					
NRDL	e PKPbc	Z 13:04:39.1	146.7	13.5					
IBBN	e PKPbc	Z 13:04:40.4	147.2	9.5					
CLZ	e PKPbc	Z 13:04:41.3	147.3	14.2					
CLL	e PKPbc	Z 13:04:41.1	147.3	18.9					

./2008/bul0807.txt

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BRG	e	PKPbc	Z	13:04:41.7	147.5	20.7
MOX	e	PKPbc	Z	13:04:43.3	148.2	16.8
TNS	e	PKPbc	Z	13:04:45.8	149.1	11.3
GRA1	e	PKPbc	Z	13:04:46.1	149.2	16.6
	e	pPKPbc	Z	13:07:00.5		
WET	e	PKPbc	Z	13:04:46.5	149.4	19.8
GEC2	e	PKPbc	Z	13:04:46.8	149.5	21.5
WLF	e	PKPbc	Z	13:04:48.1	149.9	7.2
STU	e	PKPbc	Z	13:04:49.1	150.4	13.2
FUR	e	PKPbc	Z	13:04:49.4	150.7	17.4
BFO	e	PKPbc	Z	13:04:50.3	151.0	11.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/02	20:22:55.6	34.495N	88.453E	33.0N	4.8			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:32:20.7	54.7	76.8	1.6	13	4.7		
CLL	e P	Z	20:32:24.2	55.1	76.4	1.3	10	4.7		
GEC2	e P	Z	20:32:26.7	55.3	75.2	1.1	7	4.6		
MOX	e P	Z	20:32:32.6	56.2	75.1	1.9	20	4.8		
NRDL	e P	Z	20:32:35.4	56.6	75.2	1.0	12	4.9		
CLZ	e P	Z	20:32:35.1	56.6	75.0	1.1	13	4.9		
GRA1	e P	Z	20:32:35.9	56.7	74.2	1.3	18	4.9		
TNS	e P	Z	20:32:46.4	58.2	72.7					
BFO	e P	Z	20:32:51.0	58.9	71.5	1.4	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/03	03:02:35.9	23.080S	179.060W	560.0G				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	03:21:16.0	148.3	16.6					
	e PKPbc	Z	03:21:19.2							
	e PKPab	Z	03:21:24.3							
	e pPKPbc	Z	03:23:29.5							
NRDL	e PKPbc	Z	03:21:22.6	149.8	16.9					
	e PKPab	Z	03:21:30.3							
CLL	e PKPdf	Z	03:21:19.1	150.3	22.8					
	e PKPbc	Z	03:21:24.1							
	e PKPab	Z	03:21:32.2							
	e pPKPbc	Z	03:23:33.3							
IBBN	e PKPbc	Z	03:21:24.1	150.3	12.7					
	e PKPab	Z	03:21:32.9							
CLZ	e PKPdf	Z	03:21:18.8	150.3	17.7					

	e	PKPbc	Z	03:21:24.2					
	e	PKPab	Z	03:21:32.9					
	e	pPKPbc	Z	03:23:33.3					
BRG	e	PKPdf	Z	03:21:19.2	150.4	24.8			
	e	PKPbc	Z	03:21:24.5					
	e	PKPab	Z	03:21:33.5					
	e	pPKPbc	Z	03:23:33.6					
MOX	e	PKPbc	Z	03:21:26.0	151.2	20.7			
	e	PKPab	Z	03:21:36.0					
BUG	e	PKPbc	Z	03:21:26.0	151.2	12.2			
	e	PKPab	Z	03:21:36.5					
TANN	e	PKPdf	Z	03:21:20.9	151.2	22.4			
	e	PKPbc	Z	03:21:26.4					
	e	PKPab	Z	03:21:37.0					
UBBA	e	PKPab	Z	03:21:37.0	151.4	17.6			
	e	pPKPbc	Z	03:23:37.4					
GRA1	e	PKPdf	Z	03:21:22.9	152.2	20.6			
	e	PKPbc	Z	03:21:28.4					
	e	PKPab	Z	03:21:41.2					
	e	pPKPbc	Z	03:23:37.0					
	e	PP	Z	03:25:05.9					
	e	PPP	Z	03:28:43.5					
	e	SKKSac	N	03:31:09.3					
	e	SS	Z	03:44:12.0					
TNS	e	PKPdf	Z	03:21:21.9	152.2	14.9			
	e	PKPbc	Z	03:21:28.4					
	e	PKPab	Z	03:21:40.9					
WET	e	PKPab	Z	03:21:41.9	152.3	24.2			
GEC2	e	PKPab	Z	03:21:41.6	152.3	26.0			
WLF	e	PKPbc	Z	03:21:30.8	153.1	10.6			
	e	PKPab	Z	03:21:44.9					
STU	e	PKPdf	Z	03:21:22.9	153.5	17.2			
	e	PKPbc	Z	03:21:30.9					
	e	PKPab	Z	03:21:46.1					
RJOB	e	PKPdf	Z	03:21:22.7	153.6	25.1			
	e	PKPab	Z	03:21:47.0					
FUR	e	PKPdf	Z	03:21:23.0	153.6	21.8			
	e	PKPab	Z	03:21:46.8					
BFO	e	PKPdf	Z	03:21:23.2	154.1	15.7			
	e	PKPab	Z	03:21:48.6					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/03 06:34:58.4 10.470N 59.650W 42.9 6.0 5.5  
 North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 06:45:43.3	66.5	258.1	1.7	225	6.1		

	e pP	Z	06:45:56.2							
BUG	e P	Z	06:45:50.3	67.5	258.2	1.6	191	6.1		
	e pP	Z	06:46:02.6							
BFO	e P	Z	06:45:50.8	67.6	260.4					
IBBN	e P	Z	06:45:53.3	68.0	258.3	1.5	271	6.3		
	e pP	Z	06:46:05.5							
TNS	e P	Z	06:45:53.5	68.0	259.7	1.8	486	6.4		
STU	e P	Z	06:45:54.8	68.2	260.9	1.1	86	5.9		
UBBA	e P	Z	06:46:00.0	69.1	260.7	2.9	448	6.2		
NRDL	e P	Z	06:46:02.2	69.4	260.2	1.7	220	6.1		
CLZ	e P	Z	06:46:02.6	69.5	260.7	1.4	135	5.9		
FUR	e P	Z	06:46:03.0	69.5	262.8	1.9	394	6.2		
GRA1	e P	Z	06:46:04.2	69.7	262.1	1.7	234	6.0		
	e pP	Z	06:46:15.9							
	e S	N	06:55:12.3							
	e L	Z	07:13:27.3			21.6	2701	5.5		
BSEG	e P	Z	06:46:04.5	69.8	259.9	1.5	193	6.0		
	e pP	Z	06:46:16.2							
MOX	e P	Z	06:46:06.0	70.1	262.1	2.3	198	5.8		
RJOB	e P	Z	06:46:08.7	70.5	264.1	1.7	145	5.8		
TANN	e P	Z	06:46:09.3	70.6	262.9	1.8	144	5.8		
WET	e P	Z	06:46:10.0	70.7	263.6	1.3	92	5.7		
CLL	e P	Z	06:46:12.0	71.0	263.0	1.3	123	5.9		
GEC2	e P	Z	06:46:13.0	71.2	264.4	1.5	142	5.9		
BRG	e P	Z	06:46:15.4	71.6	263.9	1.8	113	5.7		

Date 2008/07/03  
 Origin Time 17:37:43.0  
 Turkey

Lat 39.157N  
 Long 26.278E  
 Depth 33.0N  
 mb 4.2  
 Ms  
 ML  
 Source SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 17:40:53.0	13.0	126.4	1.1	4			
WET	e P	Z 17:41:02.9	13.8	131.2	1.0	10			
FUR	e P	Z 17:41:05.3	14.1	124.3					
TANN	e P	Z 17:41:18.1	14.9	133.9					
GRA1	e P	Z 17:41:18.2	15.0	128.9	1.0	14			
CLL	e P	Z 17:41:19.5	15.3	137.5					
MOX	e P	Z 17:41:22.1	15.4	132.5	1.2	13			
STU	e P	Z 17:41:23.9	15.5	121.8	1.1	35			
BFO	e P	Z 17:41:27.1	15.8	118.8	1.3	16	4.0		
TNS	e P	Z 17:41:38.4	16.7	124.5	1.1	33			
NRDL	e P	Z 17:41:44.6	17.4	133.7	1.2	28			
WLF	e P	Z 17:41:47.0	17.7	118.7	1.7	33			
BUG	e P	Z 17:41:52.6	18.1	125.4					
BSEG	e P	Z 17:41:53.8	18.3	137.3	1.3	30	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/03	18:21:23.8	17.021N	93.561W	33.0N	5.4			SZGRF

Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	18:33:47.6	83.2	288.3	0.8	28	5.5		
BUG	e P	Z	18:33:47.6	83.3	289.0	1.8	54	5.5		
IBBN	e P	Z	18:33:47.7	83.3	289.3	1.2	30	5.4		
BSEG	e P	Z	18:33:52.2	84.2	291.1	1.0	26	5.4		
TNS	e P	Z	18:33:53.1	84.4	290.0	0.9	57	5.8		
BFO	e P	Z	18:33:55.7	85.0	290.1	1.1	14	5.1		
UBBA	e P	Z	18:33:56.6	85.1	291.1	1.6	27	5.2		
STU	e P	Z	18:33:58.0	85.4	290.7	0.8	27	5.5		
MOX	e P	Z	18:34:01.7	86.1	292.3	1.5	15	4.9		
GRA1	e P	Z	18:34:02.5	86.3	292.1	1.4	44	5.4		
FUR	e P	Z	18:34:05.4	86.9	292.2	0.7	13	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/03	18:30:20.7	18.334S	177.499W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:49:51.0	143.9	12.7					
IBBN	e PKPbc	Z	18:49:57.1	145.8	8.9					
CLL	e PKPbc	Z	18:49:57.7	146.0	18.0					
BRG	e PKPbc	Z	18:49:58.4	146.2	19.8					
MOX	e PKPbc	Z	18:49:59.6	146.9	16.0					
TANN	e PKPbc	Z	18:50:00.5	146.9	17.5					
TNS	e PKPbc	Z	18:50:02.9	147.8	10.6					
GRA1	e PKPbc	Z	18:50:03.0	147.9	15.7					
WLF	e PKPbc	Z	18:50:05.4	148.5	6.7					
FUR	e PKPbc	Z	18:50:06.7	149.3	16.5					
RJOB	e PKPbc	Z	18:50:06.7	149.4	19.5					
BFO	e PKPbc	Z	18:50:07.1	149.6	11.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/03	23:10: 0.7	34.145N	58.277E	33.0N	4.7	4.3		SZGRF

Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:16:58.6	36.0	100.3	1.2	21	4.8		
RJOB	e P	Z	23:17:01.8	36.3	95.0	1.5	26	4.8		
WET	e P	Z	23:17:01.4	36.4	97.0	1.5	8	4.2		
CLL	e P	Z	23:17:03.3	36.7	100.0	1.4	14	4.5		

TANN	e P	Z	23:17:05.7	36.9	98.3	1.6	17	4.5	
FUR	e P	Z	23:17:10.5	37.4	94.4	1.6	27	4.7	
MOX	e P	Z	23:17:10.9	37.4	97.9	1.3	34	4.9	
GRA1	e P	Z	23:17:12.2	37.6	96.3	1.7	47	4.9	
	e L	Z	23:36:34.9			18.7	420		4.3
UBBA	e P	Z	23:17:19.3	38.5	96.7	1.9	35	4.7	
BSEG	e P	Z	23:17:20.6	38.7	100.8	1.0	38	5.0	
STU	e P	Z	23:17:22.4	38.8	93.5	1.4	48	4.9	
BFO	e P	Z	23:17:25.9	39.3	92.2	1.6	18	4.5	
TNS	e P	Z	23:17:27.4	39.4	94.6	1.5	33	4.7	
IBBN	e P	Z	23:17:32.0	40.0	96.5	1.4	24	4.6	
WLF	e P	Z	23:17:40.0	40.8	92.1	1.5	38	4.9	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/04 04:55:16.4 76.150N 131.350E 22.6 5.0 4.5 SZGRF  
 Laptev Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:03:27.5	44.6	17.0	1.3	35	5.1		
IBBN	e P	Z	05:03:43.1	46.6	15.9	1.2	19	5.1		
CLL	e P	Z	05:03:42.7	46.6	16.8	0.9	16	5.1		
BRG	e P	Z	05:03:44.7	46.9	16.9	1.0	6	4.7		
BUG	e P	Z	05:03:50.3	47.5	15.6	1.0	20	5.2		
MOX	e P	Z	05:03:50.2	47.5	16.4	1.0	17	5.1		
TANN	e P	Z	05:03:50.7	47.6	16.5	1.2	21	5.1		
UBBA	e P	Z	05:03:50.4	47.6	16.1	0.9	7	4.8		
TNS	e P	Z	05:03:57.1	48.5	15.6	0.9	15	5.0		
GRA1	e P	Z	05:03:57.5	48.5	16.0	0.9	18	5.1		
	e pP	Z	05:04:03.6							
	e L	Z	05:26:51.3			20.1	454		4.5	
WET	e P	Z	05:03:59.9	48.7	16.3	1.0	11	4.8		
WLF	e P	Z	05:04:04.4	49.4	14.9	1.1	14	4.8		
STU	e P	Z	05:04:07.6	49.7	15.4	0.7	17	5.1		
FUR	e P	Z	05:04:09.0	50.0	15.7	0.7	28	5.3		
RJOB	e P	Z	05:04:10.2	50.1	15.9	1.2	13	4.7		
BFO	e P	Z	05:04:11.5	50.3	15.1	1.2	18	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/04 10:18: 3.5 3.630S 145.437E 35.0N 4.8 NEIC  
 Near north coast of New Guinea, Papua New Guinea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z	11:29:08.5	119.9	55.6	21.7	255		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/04	21:35:38.0	29.720N	94.060E	33.0N	4.8			SZGRF

Eastern Xizang-India border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 21:45:52.6	61.4	77.0	0.8	2	4.5		
TANN	e P	Z 21:46:00.1	62.4	75.8	0.9	4	4.6		
WET	e P	Z 21:46:00.2	62.5	75.4	0.6	3	4.6		
WERD	e P	Z 21:45:59.7	62.5	75.7	1.0	4	4.5		
GUNZ	e P	Z 21:46:00.5	62.5	75.6	0.8	5	4.7		
BSEG	e P	Z 21:46:02.3	62.8	76.0	0.8	4	4.7		
MOX	e P	Z 21:46:02.9	62.9	75.3	1.5	12	4.8		
RJOB	e P	Z 21:46:02.5	62.9	74.6	0.9	6	4.7		
GRA1	e P	Z 21:46:06.5	63.4	74.6	1.2	19	5.2		
FUR	e P	Z 21:46:08.9	63.8	73.9	0.6	15	5.4		
BFO	e P	Z 21:46:19.8	65.6	72.0	1.2	8	4.8		
WLF	e P	Z 21:46:26.9	66.5	71.1	1.2	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	01:39:21.2	34.350N	82.140E	33.0N	4.6			SZGRF

Xizang

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:48:21.3	50.9	81.2	1.0	6	4.5		
CLL	e P	Z 01:48:24.6	51.4	80.9	1.0	5	4.4		
WET	e P	Z 01:48:28.5	51.8	79.1	0.9	4	4.3		
TANN	e P	Z 01:48:28.8	51.9	79.9	1.5	12	4.6		
RJOB	e P	Z 01:48:30.8	52.2	78.0	1.5	12	4.6		
MOX	e P	Z 01:48:32.4	52.3	79.5	1.4	10	4.5		
BSEG	e P	Z 01:48:34.4	52.6	81.0	0.9	8	4.7		
GRA1	e P	Z 01:48:35.9	52.8	78.5	1.4	16	4.7		
FUR	e P	Z 01:48:38.3	53.1	77.4	1.2	24	5.0		
UBBA	e P	Z 01:48:39.2	53.3	78.5	1.2	5	4.3		
BFO	e P	Z 01:48:51.0	54.9	75.6	2.0	34	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	02:12: 2.3	53.730N	153.930E	635.2	7.5			SZGRF

Sea of Okhotsk

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 02:21:55.8	66.9	24.1					
BSEG	e P	Z 02:22:03.4	68.2	22.2	1.1	5709	7.6		
	e PP	Z 02:24:48.4							
	e S	T 02:30:20.8							

	e sS	T	02:34:17.5					
HLG	e P	Z	02:22:05.3	68.5	20.8			
	e PP	Z	02:24:51.1					
RUE	e P	Z	02:22:06.2	68.7	24.0			
CLL	e P	Z	02:22:13.3	70.0	23.4	1.4	8378	7.7
	e pP	Z	02:24:28.7					
	e S	T	02:30:39.3					
	e sS	T	02:34:16.3					
BRG	e P	Z	02:22:14.4	70.2	23.9	1.5	4230	7.4
	e PP	Z	02:25:03.6					
	e S	T	02:30:41.4					
	e sS	T	02:34:19.0					
IBBN	e P	Z	02:22:15.5	70.3	20.5	1.3	6517	7.6
	e pP	Z	02:24:31.2					
	e S	T	02:30:43.4					
	e sS	T	02:34:20.1					
MOX	e P	Z	02:22:19.4	70.9	22.5	1.5	5858	7.5
	e S	T	02:30:50.9					
	e sS	T	02:34:28.1					
TANN	e P	Z	02:22:19.4	70.9	22.9	1.6	6258	7.5
	e S	T	02:30:51.0					
	e sS	T	02:34:34.2					
WERD	e P	Z	02:22:19.6	71.0	22.9			
GUNZ	e P	Z	02:22:20.0	71.0	22.9			
	e pP	Z	02:24:35.6					
UBBA	e P	Z	02:22:20.5	71.2	21.6	1.9	11628	7.7
	e pP	Z	02:24:37.2					
	e PP	Z	02:25:12.8					
	e S	T	02:30:53.4					
	e sS	T	02:34:36.8					
BUG	e P	Z	02:22:20.8	71.2	20.1	1.2	5295	7.5
	e S	T	02:30:54.6					
	e sS	T	02:34:39.8					
GRA1	e P	Z	02:22:25.5	71.9	22.2	1.2	10226	7.7
	e PP	Z	02:25:19.4					
	e S	T	02:31:02.3					
	e sS	T	02:34:49.8					
	e PKPPKpdf	Z	02:50:00.0					
	e		03:09:32.4					
GRFO	e P	Z	02:22:25.6	71.9	22.2			
	e PP	Z	02:25:19.5					
WET	e P	Z	02:22:26.1	72.0	23.0	1.2	5842	7.5
	e pP	Z	02:24:41.3					
	e S	T	02:31:03.4					
	e sS	T	02:34:45.9					
TNS	e P	Z	02:22:26.1	72.1	20.6	1.1	5941	7.5
	e pP	Z	02:24:43.6					
	e S	T	02:31:04.0					
	e sS	T	02:34:46.7					

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WLF	e P	Z	02:22:32.0	73.1	19.2	1.5	7371	7.5
	e S	T	02:31:16.8					
	e sS	T	02:34:57.0					
STU	e P	Z	02:22:32.7	73.3	20.9	1.4	5506	7.4
	e pP	Z	02:24:51.3					
	e S	T	02:31:17.1					
FUR	e sS	T	02:34:57.9	73.3	22.0	1.2	6728	7.7
	e P	Z	02:22:33.3					
	e PP	Z	02:25:29.5					
RJOB	e S	T	02:31:17.9	73.3	22.8	1.3	3633	7.3
	e sS	T	02:34:59.0					
	e P	Z	02:22:33.7					
BFO	e S	T	02:34:59.8	73.9	20.4	1.2	3248	7.3
	e P	Z	02:22:36.2					
	e pP	Z	02:24:54.1					
	e S	T	02:31:23.7					
	e sS	T	02:35:04.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	07:49: 5.8	37.500N	141.500E	50.6	5.6			SZGRF
Near east coast of eastern Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 08:01:08.3	79.4	37.4	0.9	61	5.5		
BRG	e P	Z 08:01:13.3	80.4	39.6	0.9	36	5.4		
	e pP	Z 08:01:27.9							
CLL	e P	Z 08:01:13.3	80.4	39.0	0.9	84	5.8		
TANN	e P	Z 08:01:17.5	81.3	38.6	0.9	14	5.1		
MOX	e P	Z 08:01:19.2	81.5	38.0	1.0	30	5.4		
IBBN	e P	Z 08:01:19.7	81.6	35.4	0.8	65	5.8		
UBBA	e P	Z 08:01:21.2	82.0	36.9	0.8	11	5.0		
WET	e P	Z 08:01:22.9	82.2	38.7	1.0	31	5.4		
GRA1	e P	Z 08:01:24.4	82.4	37.6	0.9	110	6.1		
	e sP	Z 08:01:42.9							
BUG	e P	Z 08:01:24.0	82.5	35.0	0.8	28	5.5		
TNS	e P	Z 08:01:27.3	83.0	35.7	0.9	30	5.5		
RJOB	e P	Z 08:01:28.7	83.3	38.6	0.9	41	5.6		
FUR	e P	Z 08:01:30.0	83.6	37.6	0.8	97	6.1		
STU	e P	Z 08:01:31.7	83.9	36.2	0.9	82	6.0		
WLF	e P	Z 08:01:33.9	84.3	34.1	1.1	28	5.4		
BFO	e P	Z 08:01:35.1	84.6	35.5	0.9	66	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	12:15: 2.0	19.348S	168.868E	251.0G				NEIC

## Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e PKPbc	Z 12:34:05.4	143.7	39.7					
WERD	e PKPbc	Z 12:34:05.7	143.8	39.4					
PLN	e PKPbc	Z 12:34:05.4	143.8	39.2					
GUNZ	e PKPbc	Z 12:34:06.0	143.8	39.5					
NKC	e PKPbc	Z 12:34:06.0	143.9	39.8					
MOX	e PKPbc	Z 12:34:05.6	143.9	38.3					
GRA1	e PKPbc	Z 12:34:09.1	144.8	38.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	12:56:7.2	51.208N	179.871W	33.0N	4.5			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:08:06.3	78.7	7.1	1.0	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	18:50:13.3	31.500N	104.200E	10.0	5.1			NEIC

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 19:01:02.7	66.2	68.7	0.8	6	4.8		
BSEG	e P	Z 19:01:09.5	67.1	67.4	0.9	16	5.2		
GRA1	e P	Z 19:01:16.4	68.3	66.4	0.8	13	5.2		
WLF	e P	Z 19:01:38.6	71.3	63.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/05	22:05:51.3	36.307N	141.168E	29.7	5.0	4.7		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:18:15.2	83.3	38.5	1.3	13	5.0		
	e pP	Z 22:18:23.8							
	e L	Z 23:01:10.2			18.5	332		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/06	01:00:19.9	46.539N	150.284E	33.0N	6.0	5.9		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 01:11:52.1	73.9	27.4	1.0	103	5.8		
	e S	R 01:21:30.3							
CLL	e P	Z 01:12:00.5	75.5	28.8	1.2	279	6.3		
	e S	R 01:21:44.5							
BRG	e P	Z 01:12:00.9	75.6	29.4	1.2	93	5.8		
	e S	R 01:21:51.3							
IBBN	e P	Z 01:12:04.2	76.1	25.5	0.9	151	6.1		
TANN	e P	Z 01:12:06.1	76.4	28.4	1.2	69	5.7		
MOX	e P	Z 01:12:06.3	76.5	27.9	1.2	124	5.9		
	e S	R 01:21:55.5							
UBBA	e P	Z 01:12:07.8	76.8	26.8	1.6	169	5.9		
	e S	R 01:21:59.2							
BUG	e P	Z 01:12:09.2	77.0	25.1	1.2	208	6.1		
	e S	R 01:22:03.9							
WET	e P	Z 01:12:11.9	77.4	28.5	1.2	215	6.2		
	e S	R 01:22:07.0							
GRA1	e P	Z 01:12:12.3	77.4	27.5	1.2	337	6.3		
	e S	R 01:22:08.6							
	e L	Z 01:51:01.9			19.4	5358		5.9	
TNS	e P	Z 01:12:13.7	77.8	25.8	1.2	213	6.1		
RJOB	e P	Z 01:12:18.8	78.7	28.3	1.3	92	5.7		
FUR	e P	Z 01:12:19.3	78.8	27.4	1.2	206	6.0		
	e S	R 01:22:18.6							
STU	e P	Z 01:12:19.5	78.9	26.1	1.3	138	5.8		
	e S	R 01:22:22.2							
BFO	e P	Z 01:12:22.8	79.5	25.5	1.2	90	5.6		
	e S	R 01:22:28.0							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/06 04:30:24.7 25.480S 176.920W 40.1 5.5 SZGRF  
 South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 04:50:08.6	151.0	13.6					
	e PKPbc	Z 04:50:14.3							
IBBN	e PKPbc	Z 04:50:18.2	152.9	9.3					
CLL	e PKPbc	Z 04:50:19.1	153.1	20.1					
BRG	e PKPbc	Z 04:50:19.5	153.3	22.2					
	e PKPab	Z 04:50:30.0							
	e pPKPab	Z 04:50:42.0							
BUG	e PKPbc	Z 04:50:20.4	153.8	8.6					
	e pPKPab	Z 04:50:43.8							
MOX	e pPKPab	Z 04:50:44.7	154.0	17.8					
TANN	e pPKPab	Z 04:50:45.0	154.0	19.6					
UBBA	e PKPbc	Z 04:50:21.1	154.1	14.4					
	e pPKPab	Z 04:50:44.8							

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TNS	e pPKPab	Z	04:50:48.6	154.9	11.5				
GRA1	e pPKPab	Z	04:50:49.4	155.0	17.6				
	e PP	Z	04:54:17.0						
	e SS	T	05:13:58.8						
	e L	Z	06:05:59.7			19.8	713	5.5	
WET	e pPKPab	Z	04:50:50.2	155.1	21.4				
WLF	e pPKPab	Z	04:50:52.3	155.7	6.8				
STU	e PKPab	Z	04:50:40.7	156.2	13.8				
	e pPKPab	Z	04:50:54.2						
FUR	e pPKPab	Z	04:50:55.6	156.4	18.8				
RJOB	e PKPab	Z	04:50:46.5	156.5	22.4				
	e pPKPab	Z	04:50:56.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/06	06:15:47.3	47.080N	152.820E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 06:27:23.1	74.1	25.5	0.9	10	4.8		
CLL	e P	Z 06:27:32.0	75.7	27.0	0.8	21	5.3		
BRG	e P	Z 06:27:32.8	75.9	27.5	0.8	5	4.7		
IBBN	e P	Z 06:27:35.1	76.2	23.7	0.8	16	5.2		
TANN	e P	Z 06:27:37.8	76.7	26.5	1.2	8	4.7		
MOX	e P	Z 06:27:37.9	76.7	26.0	1.1	12	4.9		
UBBA	e P	Z 06:27:39.1	77.0	25.0	1.6	22	5.0		
BUG	e P	Z 06:27:40.3	77.1	23.3	1.0	12	5.0		
GRA1	e P	Z 06:27:43.8	77.7	25.7	0.8	26	5.4		
WET	e P	Z 06:27:42.9	77.7	26.6	1.0	10	4.9		
TNS	e P	Z 06:27:44.6	78.0	23.9	0.8	19	5.3		
RJOB	e P	Z 06:27:50.5	79.0	26.5	1.3	9	4.6		
FUR	e P	Z 06:27:50.9	79.1	25.6	1.3	34	5.2		
STU	e P	Z 06:27:51.0	79.1	24.3	1.5	25	5.0		
BFO	e P	Z 06:27:54.2	79.7	23.7	0.9	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/06	09:08:21.9	45.160N	151.250E	33.0N	6.4	6.0		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 09:19:57.0	74.1	29.4	1.4	912	6.7		
	e S	R 09:29:41.2							
BSEG	e P	Z 09:20:04.7	75.5	27.3	1.3	377	6.3		
RUE	e P	Z 09:20:06.2	75.8	29.5	1.3	804	6.6		
	e S	R 09:29:58.6							
HLG	e P	Z 09:20:07.1	75.9	25.7	1.2	429	6.3		

	e S	R	09:30:00.2							
CLL	e P	Z	09:20:12.9	77.0	28.8	1.2	759	6.7		
	e S	R	09:30:08.8							
BRG	e P	Z	09:20:13.6	77.1	29.4	1.4	302	6.3		
IBBN	e P	Z	09:20:16.7	77.6	25.4	1.5	666	6.6		
TANN	e P	Z	09:20:18.7	78.0	28.4	1.6	330	6.2		
	e S	R	09:30:10.0							
WERD	e P	Z	09:20:18.9	78.0	28.3	1.5	457	6.4		
MOX	e P	Z	09:20:19.0	78.0	27.8	1.4	467	6.4		
	e S	R	09:30:09.2							
GUNZ	e P	Z	09:20:19.5	78.1	28.3	1.4	433	6.4		
UBBA	e P	Z	09:20:20.3	78.3	26.8	1.5	355	6.3		
	e S	R	09:30:12.2							
BUG	e P	Z	09:20:21.8	78.5	25.0	1.3	658	6.6		
	e S	R	09:30:14.3							
WET	e P	Z	09:20:24.6	79.0	28.5	1.3	644	6.6		
	e S	R	09:30:19.8							
GRA1	e P	Z	09:20:24.7	79.0	27.5	1.3	999	6.8		
	e S	R	09:30:19.6							
	e L	Z	09:58:44.2			19.7	7443		6.0	
GRFO	e S	R	09:30:19.6	79.0	27.5					
TNS	e P	Z	09:20:26.3	79.3	25.7	1.3	635	6.6		
	e S	R	09:30:25.8							
RJOB	e P	Z	09:20:31.6	80.2	28.3	1.3	251	6.1		
	e S	R	09:30:32.6							
FUR	e P	Z	09:20:31.8	80.3	27.4	1.3	678	6.5		
	e S	R	09:30:30.3							
STU	e P	Z	09:20:32.1	80.4	26.1	1.3	446	6.3		
	e S	R	09:30:35.9							
WLF	e P	Z	09:20:32.5	80.4	24.2	1.5	412	6.2		
	e S	R	09:30:35.6							
BFO	e P	Z	09:20:35.5	81.0	25.5	1.3	310	6.1		
	e S	R	09:30:40.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/06 09:51: 5.2 47.582N 150.339E 33.0N 5.1  
 Kuril Islands, Russia SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 10:02:31.7	73.0	26.9	0.9	12	5.0		
RUE	e P	Z 10:02:33.9	73.3	29.0	0.8	23	5.2		
CLL	e P	Z 10:02:40.2	74.6	28.3	1.0	34	5.3		
BRG	e P	Z 10:02:40.8	74.7	28.8	1.3	15	4.9		
IBBN	e P	Z 10:02:44.0	75.1	25.1	0.8	23	5.3		
TANN	e P	Z 10:02:45.4	75.5	27.9	1.1	9	4.8		
MOX	e P	Z 10:02:46.3	75.6	27.4	1.3	25	5.2		
UBBA	e P	Z 10:02:47.7	75.9	26.4	0.8	7	4.8		

BUG	e P	Z	10:02:49.0	76.0	24.7	1.2	33	5.3
WET	e P	Z	10:02:51.8	76.5	28.0	1.2	30	5.3
GRA1	e P	Z	10:02:52.4	76.5	27.0	1.3	65	5.6
TNS	e P	Z	10:02:53.6	76.8	25.3	1.3	26	5.2
RJOB	e P	Z	10:02:59.1	77.8	27.8	0.9	9	4.9
FUR	e P	Z	10:02:59.4	77.9	26.9	1.4	32	5.3
STU	e P	Z	10:02:59.6	77.9	25.6	1.2	22	5.2
BFO	e P	Z	10:03:03.1	78.6	25.1	1.2	16	4.9

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/06 12:01:31.3 15.540N 123.050E 28.3 5.3 5.3  
 Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:14:26.6	89.5	65.6	1.1	11	5.0		
CLL	e P	Z 12:14:27.8	89.8	64.8	1.5	24	5.2		
	e PP	Z 12:18:00.9							
BSEG	e P	Z 12:14:29.8	90.1	62.7	1.2	25	5.3		
TANN	e P	Z 12:14:31.7	90.5	64.4	1.4	13	5.1		
WET	e P	Z 12:14:33.6	90.8	64.7	1.5	19	5.2		
MOX	e P	Z 12:14:33.3	90.9	63.8	1.7	28	5.3		
RJOB	e P	Z 12:14:36.0	91.5	64.7	1.1	19	5.3		
GRA1	e P	Z 12:14:36.6	91.6	63.5	1.6	42	5.5		
	e pP	Z 12:14:44.8							
	e L	Z 12:59:06.8			18.4	1091		5.3	
UBBA	e P	Z 12:14:38.0	91.8	62.5	1.7	15	5.1		
FUR	e P	Z 12:14:40.2	92.2	63.6	1.0	31	5.6		
IBBN	e P	Z 12:14:39.8	92.3	60.7	1.6	41	5.5		
BUG	e P	Z 12:14:43.7	93.0	60.3	1.2	17	5.4		
STU	e P	Z 12:14:43.9	93.2	61.9	1.8	34	5.5		
WLF	e P	Z 12:14:50.9	94.5	59.5	1.1	28	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/06 12:46:56.1 15.407N 123.093E 33.0N 5.0  
 Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:00:00.5	91.7	63.5	1.2	11	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/06 13:22: 8.9 17.811S 177.717W 33.0N  
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:41:36.5	143.3	12.9					
IBBN	e PKPbc	Z	13:41:43.2	145.2	9.2					
CLL	e PKPbc	Z	13:41:43.3	145.4	18.2					
BRG	e PKPbc	Z	13:41:43.8	145.7	19.9					
BUG	e PKPbc	Z	13:41:45.6	146.1	8.5					
MOX	e PKPbc	Z	13:41:45.7	146.3	16.2					
TANN	e PKPbc	Z	13:41:46.2	146.4	17.7					
UBBA	e PKPbc	Z	13:41:45.9	146.4	13.4					
TNS	e PKPbc	Z	13:41:48.7	147.2	10.9					
GRA1	e PKPbc	Z	13:41:48.7	147.3	15.9					
WET	e PKPbc	Z	13:41:49.3	147.5	19.0					
WLF	e PKPbc	Z	13:41:51.1	148.0	7.0					
STU	e PKPbc	Z	13:41:52.0	148.5	12.7					
FUR	e PKPbc	Z	13:41:52.5	148.8	16.7					
BFO	e PKPbc	Z	13:41:53.1	149.1	11.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/06	15:00:33.4	45.246N	150.397E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	15:12:20.9	76.7	29.3	1.1	16			
BRG	e P	Z	15:12:21.9	76.8	29.9	1.1	4			
MOX	e P	Z	15:12:26.9	77.7	28.3	0.9	6			
WET	e P	Z	15:12:32.7	78.6	29.0	1.1	11			
GRA1	e P	Z	15:12:32.5	78.6	28.0	0.9	18	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/06	17:05:18.8	27.953N	142.555E	54.6	4.8			SZGRF

Bonin Islands, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:18:20.6	91.1	41.6	1.2	6	4.8		
	e pP	Z	17:18:36.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/07	02:50:35.6	25.360N	94.970E	71.8	5.3			SZGRF

Myanmar-India border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	03:01:08.8	64.9	80.4	1.1	29	5.4		
	e pP	Z	03:01:27.1							

BRG	e P	Z	03:01:09.6	65.1	79.8	1.0	15	5.2
	e pP	Z	03:01:27.9					
CLL	e P	Z	03:01:12.6	65.6	79.3	1.1	16	5.2
	e pP	Z	03:01:30.9					
WET	e P	Z	03:01:15.8	66.1	78.3	0.9	12	5.1
	e pP	Z	03:01:35.1					
TANN	e P	Z	03:01:16.5	66.1	78.5	1.3	15	5.1
	e pP	Z	03:01:34.8					
WERD	e P	Z	03:01:15.7	66.2	78.4	1.1	15	5.1
	e pP	Z	03:01:35.4					
GUNZ	e P	Z	03:01:16.9	66.2	78.4	1.1	22	5.3
	e pP	Z	03:01:35.4					
RJOB	e P	Z	03:01:17.9	66.4	77.6	1.2	15	5.1
	e pP	Z	03:01:37.2					
MOX	e P	Z	03:01:18.6	66.6	78.0	1.1	16	5.2
	e pP	Z	03:01:38.2					
BSEG	e P	Z	03:01:20.2	66.7	78.4	0.9	28	5.5
	e pP	Z	03:01:38.8					
GRA1	e P	Z	03:01:22.7	67.0	77.3	1.2	37	5.5
	e pP	Z	03:01:41.6					
FUR	e P	Z	03:01:24.1	67.3	76.7	1.1	34	5.5
	e pP	Z	03:01:43.3					
TNS	e P	Z	03:01:31.4	68.6	75.6	1.0	27	5.5
	e pP	Z	03:01:51.3					
BUG	e P	Z	03:01:33.7	69.1	75.2	1.1	17	5.2
BFO	e pP	Z	03:01:54.9	69.2	74.8			
WLF	e P	Z	03:01:42.8	70.2	73.8	0.9	44	5.6
	e pP	Z	03:02:01.7					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/07 04:44:57.6 15.906S 173.478W 130.2 SZGRF  
 Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:04:09.2	141.9	5.9					
IBBN	e PKPbc	Z	05:04:15.9	143.6	2.0					
CLL	e PKPbc	Z	05:04:17.0	144.2	10.7					
BUG	e PKPbc	Z	05:04:18.0	144.5	1.2					
BRG	e PKPbc	Z	05:04:18.0	144.5	12.4					
UBBA	e PKPbc	Z	05:04:19.6	145.0	5.8					
MOX	e PKPbc	Z	05:04:19.8	145.0	8.6					
WERD	e PKPbc	Z	05:04:20.1	145.1	9.8					
	e pPKPbc	Z	05:04:55.3							
TANN	e PKPbc	Z	05:04:20.4	145.2	10.0					
GUNZ	e PKPbc	Z	05:04:20.5	145.2	9.8					
	e pPKPbc	Z	05:04:56.0							
TNS	e PKPbc	Z	05:04:22.1	145.6	3.3					

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GRA1	e	PKPbc	Z	05:04:23.6	146.0	8.1
WLF	e	PKPbc	Z	05:04:23.9	146.2	359.4
	e	pPKPbc	Z	05:04:58.6		
WET	e	PKPbc	Z	05:04:24.4	146.4	11.1
	e	pPKPbc	Z	05:04:57.9		
STU	e	PKPbc	Z	05:04:26.7	147.1	4.7
FUR	e	PKPbc	Z	05:04:27.8	147.5	8.5
	e	pPKPbc	Z	05:05:01.0		
BFO	e	PKPbc	Z	05:04:27.5	147.5	3.2
RJOB	e	PKPbc	Z	05:04:28.2	147.8	11.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/07	09:58:51.8	10.756N	92.923E	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 10:10:28.4	74.7	91.7	1.0	9	4.8		
CLL	e P	Z 10:10:31.8	75.3	91.0	0.4	6	5.1		
WET	e P	Z 10:10:31.9	75.4	90.4	1.3	11	4.7		
MOX	e P	Z 10:10:36.9	76.2	89.8	1.1	6	4.6		
FUR	e P	Z 10:10:37.1	76.5	88.9	0.6	19	5.4		
GRA1	e P	Z 10:10:38.7	76.5	89.3	1.2	22	5.2		
BSEG	e P	Z 10:10:41.1	77.0	89.5	1.0	21	5.2		
BFO	e P	Z 10:10:47.7	78.4	86.8	1.5	24	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/07	20:56:35.7	46.507N	150.396E	33.0N				SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:08:28.4	77.5	27.4	1.4	14			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/07	22:44:1.6	53.750N	177.720W	79.2	5.0			SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 22:55:19.9	72.1	5.0	1.1	17	5.1		
	e pP	Z 22:55:41.4							
	e sP	Z 22:55:49.2							
NRDL	e P	Z 22:55:27.5	73.6	4.8	1.0	14	4.9		
IBBN	e P	Z 22:55:30.5	73.8	3.4	1.5	56	5.4		
	e pP	Z 22:55:51.8							

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	e sP	Z	22:55:59.5							
CLL	e P	Z	22:55:34.0	74.6	6.6	1.0	10	4.8		
	e pP	Z	22:55:54.4							
BUG	e P	Z	22:55:35.0	74.7	3.1	1.2	25	5.1		
BRG	e P	Z	22:55:36.1	74.9	7.1	1.1	11	4.8		
	e pP	Z	22:55:57.1							
MOX	e P	Z	22:55:38.3	75.3	5.7	1.0	9	4.9		
WERD	e P	Z	22:55:39.2	75.5	6.1	1.3	12	4.9		
TANN	e P	Z	22:55:39.5	75.5	6.2	1.5	16	4.9		
	e sP	Z	22:56:08.8							
GUNZ	e P	Z	22:55:40.0	75.5	6.1	1.5	14	4.9		
TNS	e P	Z	22:55:41.6	75.9	3.8	0.9	18	5.2		
	e pP	Z	22:56:02.6							
GRA1	e P	Z	22:55:43.9	76.3	5.4	0.7	11	5.1		
	e pP	Z	22:56:04.9							
	e sP	Z	22:56:12.8							
WLF	e P	Z	22:55:45.1	76.5	2.4	1.8	38	5.2		
WET	e P	Z	22:55:46.2	76.7	6.4	1.2	8	4.7		
	e pP	Z	22:56:07.9							
BFO	e P	Z	22:55:52.1	77.8	3.7	1.1	10	4.8		
FUR	e sP	Z	22:56:21.2	77.8	5.4					
RJOB	e P	Z	22:55:54.3	78.1	6.3	0.9	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/08	01:41:56.3	15.400N	122.500E	35.0	4.7	4.9		NEIC
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:54:57.2	91.4	64.0	0.7	3	4.7		
	e L	Z 02:39:19.7			19.6	421		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/08	07:42:11.5	27.530N	128.880E	58.4	6.4	6.3		SZGRF
Ryukyu Islands, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 07:54:22.2	81.1	54.1	1.0	502	6.6		
RUE	e P	Z 07:54:27.1	82.1	54.2	1.4	747	6.7		
BSEG	e P	Z 07:54:31.0	82.9	51.7	0.9	592	6.8		
	e S	R 08:04:46.6							
BRG	e P	Z 07:54:31.4	83.0	54.1	0.9	88	6.0		
	e pP	Z 07:54:47.7							
	e S	R 08:04:48.1							
CLL	e P	Z 07:54:32.1	83.2	53.5	0.8	339	6.6		
	e pP	Z 07:54:48.5							

	e S	R	08:04:48.7							
HLG	e P	Z	07:54:36.1	83.8	49.9	0.9	483	6.7		
TANN	e P	Z	07:54:36.6	84.0	53.0	1.1	222	6.3		
	e pP	Z	07:54:53.0							
	e S	R	08:04:57.4							
WERD	e P	Z	07:54:36.9	84.0	52.9	1.1	252	6.4		
GUNZ	e P	Z	07:54:37.2	84.1	52.9					
MOX	e P	Z	07:54:38.0	84.3	52.4	1.7	541	6.5		
	e S	R	08:04:59.0							
WET	e P	Z	07:54:39.7	84.5	53.2	1.5	292	6.3		
	e S	R	08:05:01.2							
UBBA	e P	Z	07:54:41.6	85.0	51.2	1.3	279	6.2		
	e S	R	08:05:08.1							
GRA1	e P	Z	07:54:42.4	85.1	52.0	1.4	832	6.7		
	e pP	Z	07:54:59.5							
	e PP	Z	07:58:00.4							
	e L	Z	08:36:50.9			18.4	12668		6.3	
IBBN	e P	Z	07:54:42.1	85.1	49.6	1.0	674	6.7		
RJOB	e P	Z	07:54:44.1	85.4	53.0	1.0	353	6.5		
	e S	R	08:05:13.5							
BUG	e P	Z	07:54:46.0	85.9	49.2	1.1	199	6.2		
	e pP	Z	07:55:02.3							
	e S	R	08:05:17.1							
FUR	e P	Z	07:54:47.0	86.0	52.0	1.1	534	6.6		
	e pP	Z	07:55:03.3							
	e S	R	08:05:17.4							
TNS	e P	Z	07:54:47.1	86.1	50.0	1.3	231	6.1		
	e S	R	08:05:19.1							
STU	e P	Z	07:54:49.8	86.7	50.5	1.1	160	6.3		
	e S	R	08:05:24.0							
BFO	e P	Z	07:54:53.4	87.4	49.9	1.3	149	6.2		
	e pP	Z	07:55:10.0							
	e S	R	08:05:29.8							
WLF	e P	Z	07:54:54.3	87.6	48.3	0.9	97	6.0		
	e S	R	08:05:32.7							

Date 2008/07/08  
 Origin Time 09:13: 7.9  
 Southern Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 09:26:13.8	94.5	250.6	1.4	126	6.0		
	e pP	Z 09:26:46.6							
	e SKSac	R 09:36:39.7							
	e SP	Z 09:38:31.7							
BFO	e P	Z 09:26:17.4	95.4	252.1	1.1	18	5.4		
	e sP	Z 09:27:02.0							

	e PP	Z	09:30:02.2					
	e SKSac	R	09:36:45.3					
	e SP	Z	09:38:43.0					
BUG	e P	Z	09:26:19.2	95.7	251.6	1.3	114	6.3
	e PP	Z	09:30:07.0					
	e SKSac	R	09:36:46.7					
	e SP	Z	09:38:46.5					
TNS	e P	Z	09:26:20.9	96.0	252.3	1.2	94	6.2
	e pP	Z	09:26:53.2					
	e sP	Z	09:27:04.7					
	e SKSac	R	09:36:50.6					
STU	e P	Z	09:26:20.7	96.1	252.7	1.4	85	6.1
	e PP	Z	09:30:12.3					
	e SKSac	R	09:36:49.3					
	e SP	Z	09:38:50.7					
IBBN	e P	Z	09:26:21.8	96.3	252.0	1.3	124	6.3
	e SKSac	R	09:36:50.3					
HLG	e PP	Z	09:30:18.7	96.9	252.3			
UBBA	e P	Z	09:26:25.8	97.2	253.6	1.5	61	6.0
	e PP	Z	09:30:19.6					
	e SKSac	R	09:36:56.8					
	e SP	Z	09:39:03.3					
FUR	e P	Z	09:26:26.6	97.2	254.2	1.3	121	6.4
	e sP	Z	09:27:10.7					
	e PP	Z	09:30:21.2					
	e SKSac	R	09:36:55.0					
GRA1	e P	Z	09:26:28.1	97.6	254.3	1.4	97	6.2
	e pP	Z	09:27:01.8					
	e PP	Z	09:30:23.5					
	e SKSac	R	09:36:59.1					
	e Sdiff	R	09:37:44.7					
	e SP	Z	09:39:06.9					
CLZ	e P	Z	09:26:28.5	97.7	254.0	1.2	88	6.4
	e pP	Z	09:27:00.4					
	e PP	Z	09:30:24.4					
	e SKSac	R	09:36:59.3					
	e SP	Z	09:39:08.0					
RJOB	e P	Z	09:26:30.3	98.1	255.2	1.0	30	6.0
	e pP	Z	09:27:03.5					
	e PP	Z	09:30:26.7					
	e SKSac	R	09:36:59.0					
	e Sdiff	R	09:37:47.9					
	e SP	Z	09:39:11.1					
MOX	e P	Z	09:26:29.9	98.1	254.8	1.6	44	5.9
	e pP	Z	09:27:03.5					
	e PP	Z	09:30:28.1					
	e SKSac	R	09:37:02.4					
	e Sdiff	R	09:37:49.4					
	e SP	Z	09:39:11.1					

BSEG	e P	Z	09:26:30.8	98.2	254.2	1.0	56	6.3
	e pP	Z	09:27:02.7					
	e PP	Z	09:30:29.6					
	e SKSac	R	09:37:01.1					
	e Sdiff	R	09:37:49.8					
GUNZ	e P	Z	09:26:32.3	98.5	255.3	1.3	25	5.8
	e pP	Z	09:27:05.6					
	e PP	Z	09:30:32.1					
WERD	e P	Z	09:26:32.2	98.5	255.2	1.2	32	5.9
	e PP	Z	09:30:30.8					
WET	e P	Z	09:26:32.2	98.5	255.5	1.6	70	6.1
	e pP	Z	09:27:05.0					
	e PP	Z	09:30:31.0					
	e SKSac	R	09:37:02.6					
	e Sdiff	R	09:37:52.1					
	e SP	Z	09:39:15.4					
TANN	e P	Z	09:26:32.9	98.6	255.4	1.5	61	6.1
	e PP	Z	09:30:31.3					
	e SKSac	R	09:37:04.7					
	e Sdiff	R	09:37:53.6					
	e SP	Z	09:39:16.5					
CLL	e P	Z	09:26:35.0	99.1	255.9	1.5	48	6.0
	e PP	Z	09:30:36.0					
	e SKSac	R	09:37:05.9					
	e Sdiff	R	09:37:58.1					
	e SP	Z	09:39:21.9					
BRG	e P	Z	09:26:37.3	99.6	256.5	1.6	64	6.1
	e pP	Z	09:27:10.7					
	e PP	Z	09:30:39.3					
	e SKSac	R	09:37:08.2					
	e SP	Z	09:39:27.4					
RUE	e PP	Z	09:30:42.2	99.9	256.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/08	16:08:31.8	39.490N	73.360E	33.0N	5.1	4.6		SZGRF
Tajikistan-Xinjiang border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:16:22.3	42.2	81.7	1.0	35	5.0		
	e PP	Z 16:18:04.2							
CLL	e P	Z 16:16:25.9	42.7	81.6	1.0	29	5.0		
	e PP	Z 16:18:08.4							
WET	e P	Z 16:16:30.0	43.1	79.2	1.0	38	5.1		
TANN	e P	Z 16:16:30.7	43.2	80.2	1.1	24	4.8		
	e PP	Z 16:18:14.0							
GUNZ	e P	Z 16:16:31.5	43.3	80.1	1.1	23	4.8		
WERD	e P	Z 16:16:31.7	43.3	80.2	1.1	24	4.8		

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RJOB	e P	Z	16:16:32.6	43.5	77.7	1.2	23	4.8	
	e PP	Z	16:18:15.5						
MOX	e P	Z	16:16:34.4	43.7	79.9	1.0	25	4.9	
	e PP	Z	16:18:17.2						
BSEG	e P	Z	16:16:36.6	43.9	82.4	1.4	60	5.1	
GRA1	e P	Z	16:16:37.9	44.1	78.7	0.9	70	5.4	
	e L	Z	16:37:24.1			18.8	689		4.6
CLZ	e P	Z	16:16:39.4	44.2	80.3	1.2	19	4.7	
	e PP	Z	16:18:23.5						
FUR	e P	Z	16:16:41.1	44.4	77.2	0.9	90	5.7	
	e PP	Z	16:18:23.6						
UBBA	e P	Z	16:16:42.5	44.6	79.0	1.9	68	5.3	
	e PP	Z	16:18:25.0						
STU	e P	Z	16:16:50.2	45.6	76.5	0.9	42	5.5	
IBBN	e P	Z	16:16:51.0	45.7	79.0	1.2	61	5.5	
TNS	e P	Z	16:16:51.2	45.7	77.5	1.1	19	5.0	
BUG	e P	Z	16:16:54.9	46.2	77.9	1.2	40	5.3	
BFO	e P	Z	16:16:54.7	46.2	75.6	1.0	27	5.2	
WLF	e P	Z	16:17:02.7	47.3	75.5	1.1	55	5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/08	21:35:41.0	43.087N	15.369E	10.0G			3.4	SZGRF

Adriatic Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z 21:36:34.3	3.5	170.1					3.9
ARSA	e Pn	Z 21:36:43.1	4.2	181.6					3.0
KBA	e Pn	Z 21:36:44.5	4.2	159.6					3.4
MOA	e Pn	Z 21:36:53.0	4.8	170.4					3.3
	e Sn	N 21:37:47.6							
WTTA	e Pn	Z 21:36:54.1	4.9	146.4					3.6
WET	e Pn	Z 21:37:11.7	6.3	163.2					
	e Sn	N 21:38:20.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/09	02:34:46.3	12.500S	166.500E	67.0				NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 02:54:15.1	137.6	37.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/09	08:24:19.4	19.827S	170.822E	44.2		5.0		SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 08:43:42.6	142.8	31.3					
	e pPKPbc	Z 08:43:56.7							
BRG	e PKPbc	Z 08:43:46.6	144.0	38.9					
	e pPKPbc	Z 08:43:59.7							
CLL	e PKPbc	Z 08:43:46.3	144.0	37.2					
	e pPKPbc	Z 08:43:59.7							
NRDL	e PKPbc	Z 08:43:46.1	144.1	32.0					
CLZ	e PKPbc	Z 08:43:49.0	144.5	32.9					
TANN	e PKPbc	Z 08:43:49.9	144.9	37.2					
	e pPKPbc	Z 08:44:03.2							
IBBN	e PKPbc	Z 08:43:50.4	144.9	28.5					
	e pPKPbc	Z 08:44:03.5							
MOX	e PKPbc	Z 08:43:50.3	145.1	35.7					
UBBA	e PKPbc	Z 08:43:51.5	145.5	33.1					
	e pPKPbc	Z 08:44:04.8							
WET	e PKPbc	Z 08:43:52.6	145.8	38.9					
	e pPKPbc	Z 08:44:05.6							
BUG	e PKPbc	Z 08:43:53.1	145.9	28.3					
GRA1	e PKPbc	Z 08:43:53.6	146.0	35.9					
	e PP	Z 08:47:16.9							
	e L	Z 09:52:41.9			21.4	240		5.0	
TNS	e PKPbc	Z 08:43:55.0	146.5	31.1					
	e pPKPbc	Z 08:44:08.4							
RJOB	e PKPbc	Z 08:43:55.6	146.9	40.1					
FUR	e PKPbc	Z 08:43:57.0	147.2	37.4					
STU	e PKPbc	Z 08:43:57.6	147.5	33.5					
WLF	e PKPbc	Z 08:43:59.0	147.8	27.8					
	e pPKPbc	Z 08:44:12.5							
BFO	e PKPbc	Z 08:43:59.1	148.2	32.5					
	e pPKPbc	Z 08:44:12.6							

Date 2008/07/09 Origin Time 12:29:40.7 Lat 49.620N Long 153.170E Depth 291.9 mb 5.1 Ms ML Source SZGRF  
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 12:40:41.8	73.2	24.0					
	e pP	Z 12:41:48.6							
CLL	e P	Z 12:40:43.4	73.5	25.6	0.9	24	5.2		
	e pP	Z 12:41:50.6							
BRG	e P	Z 12:40:44.0	73.7	26.2	1.4	13	4.8		
CLZ	e P	Z 12:40:45.5	73.7	24.1	1.4	41	5.3		
	e pP	Z 12:41:52.6							
TANN	e P	Z 12:40:49.1	74.5	25.2	1.2	11	4.8		

	e pP	Z	12:41:56.8						
MOX	e P	Z	12:40:49.1	74.5	24.7	1.3	20	5.0	
	e pP	Z	12:41:56.5						
UBBA	e P	Z	12:40:50.4	74.8	23.7	1.6	22	5.0	
BUG	e pP	Z	12:41:59.5	74.9	22.1				
GRA1	e P	Z	12:40:55.1	75.5	24.4	1.0	29	5.4	
	e pP	Z	12:42:03.2						
	e sP	Z	12:42:31.2						
	e PP	Z	12:43:49.0						
WET	e P	Z	12:40:55.5	75.5	25.3	1.7	40	5.3	
	e pP	Z	12:42:02.9						
TNS	e P	Z	12:40:56.2	75.7	22.7				
	e pP	Z	12:42:04.3						
RJOB	e P	Z	12:41:02.5	76.8	25.1	1.3	13	4.9	
STU	e pP	Z	12:42:11.1	76.8	23.0				
BFO	e P	Z	12:41:05.5	77.5	22.5	1.1	19	5.1	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/09 22:17:44.7 1.500S 100.500E 33.0N 5.2 5.1 SZGRF  
 Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 22:30:34.3	89.0	93.6	1.0	17	5.2		
RUE	e P	Z 22:30:37.6	89.2	93.5	1.2	64	5.7		
RJOB	e P	Z 22:30:37.9	89.6	92.7	1.2	11	5.0		
WET	e P	Z 22:30:38.0	89.6	92.8	1.3	23	5.2		
CLL	e P	Z 22:30:37.9	89.6	92.9	1.2	13	5.0		
TANN	e P	Z 22:30:41.2	89.9	92.5	1.2	8	4.8		
GUNZ	e P	Z 22:30:41.6	90.0	92.4	1.7	29	5.2		
WERD	e P	Z 22:30:41.5	90.0	92.3	1.0	7	4.8		
MOX	e P	Z 22:30:42.3	90.5	91.8	1.4	13	5.0		
GRA1	e P	Z 22:30:42.3	90.7	91.5	1.6	36	5.4		
	e S	T 22:41:44.1							
	e L	Z 23:22:16.4			18.0	613		5.1	
CLZ	e P	Z 22:30:45.9	91.3	90.8	2.0	41	5.4		
BSEG	e P	Z 22:30:46.3	91.3	90.7	2.0	37	5.4		
NRDL	e P	Z 22:30:45.6	91.4	90.6	1.6	28	5.3		
UBBA	e P	Z 22:30:46.7	91.5	90.6	1.4	10	5.0		
TNS	e P	Z 22:30:52.2	92.5	89.4	1.0	24	5.5		
BFO	e P	Z 22:30:52.9	92.6	89.4	1.0	6	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/09 22:36: 5.9 22.420S 170.240E 33.0G SZGRF  
 Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	22:55:38.7	145.0	33.6					
BRG	e PKPbc	Z	22:55:42.2	146.1	41.8					
CLL	e PKPbc	Z	22:55:42.1	146.2	40.0					
NEUB	e PKPbc	Z	22:55:44.0	146.7	38.2					
CLZ	e PKPbc	Z	22:55:44.1	146.7	35.5					
TANN	e PKPbc	Z	22:55:45.2	147.1	40.0					
WERD	e PKPbc	Z	22:55:45.4	147.1	39.7					
PLN	e PKPbc	Z	22:55:45.4	147.1	39.5					
GUNZ	e PKPbc	Z	22:55:45.5	147.2	39.9					
NKC	e PKPbc	Z	22:55:45.6	147.2	40.2					
MOX	e PKPbc	Z	22:55:45.3	147.2	38.5					
IBBN	e PKPbc	Z	22:55:45.4	147.2	30.9					
UBBA	e PKPbc	Z	22:55:46.2	147.7	35.8					
WET	e PKPbc	Z	22:55:47.3	147.8	42.0					
GRA1	e PKPbc	Z	22:55:47.2	148.1	38.8					
RJOB	e PKPbc	Z	22:55:50.0	148.9	43.4					
WLF	e PKPbc	Z	22:55:53.4	150.0	30.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/10	03:46:42.9	21.020S	170.560E	41.2				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	04:06:13.6	145.0	40.2					
CLL	e PKPbc	Z	04:06:13.9	145.0	38.4					
NRDL	e PKPbc	Z	04:06:13.6	145.1	33.1					
CLZ	e PKPbc	Z	04:06:16.5	145.6	34.0					
TANN	e PKPbc	Z	04:06:17.3	145.9	38.4					
WERD	e PKPbc	Z	04:06:17.5	146.0	38.2					
IBBN	e PKPbc	Z	04:06:17.7	146.0	29.6					
GUNZ	e PKPbc	Z	04:06:17.9	146.0	38.3					
MOX	e PKPbc	Z	04:06:17.8	146.1	36.9					
UBBA	e PKPbc	Z	04:06:19.5	146.5	34.3					
WET	e PKPbc	Z	04:06:20.1	146.7	40.3					
BUG	e PKPbc	Z	04:06:20.5	146.9	29.4					
GRA1	e PKPbc	Z	04:06:21.0	147.0	37.2					
	e pPKPbc	Z	04:06:33.3							
GRFO	e PKPbc	Z	04:06:20.9	147.0	37.2					
TNS	e PKPbc	Z	04:06:22.6	147.6	32.3					
RJOB	e PKPbc	Z	04:06:22.5	147.8	41.6					
FUR	e PKPbc	Z	04:06:23.9	148.2	38.8					
STU	e PKPbc	Z	04:06:24.9	148.5	34.8					
BFO	e PKPbc	Z	04:06:26.5	149.2	33.8					

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/10	05:16:28.1	15.200S	167.500E	123.0				NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 05:35:36.9	137.4	33.5					
BRG	e PKPdf	Z 05:35:39.0	138.5	40.4					
TANN	e PKP	Z 05:35:40.6	139.4	38.8					
MOX	e PKPdf	Z 05:35:41.3	139.6	37.4					
GRA1	e PKPdf	Z 05:35:43.0	140.5	37.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/10	07:49:55.6	40.003N	28.034E	33.0N	4.4			NEIC

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z 07:53:13.7	14.1	124.7	0.9	14			
TANN	e P	Z 07:53:31.8	15.1	127.7					
GUNZ	e P	Z 07:53:31.2	15.1	127.3					
GRA1	e P	Z 07:53:33.4	15.3	122.9	1.4	38			
BFO	e P	Z 07:53:45.7	16.3	113.3	1.4	46	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/10	09:08:27.6	20.734S	178.868W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z 09:28:10.0	146.1	15.5					
NRDL	e PKPbc	Z 09:28:08.2	147.5	15.8					
IBBN	e PKPbc	Z 09:28:10.6	148.0	11.8					
	e PKPab	Z 09:28:18.3							
CLL	e PKPbc	Z 09:28:10.2	148.0	21.3					
	e PKPab	Z 09:28:17.8							
CLZ	e PKPbc	Z 09:28:10.6	148.1	16.5					
BRG	e PKPbc	Z 09:28:10.8	148.2	23.2					
	e PKPab	Z 09:28:18.9							
BUG	e PKPbc	Z 09:28:13.1	148.9	11.2					
MOX	e PKPbc	Z 09:28:12.6	149.0	19.3					
	e PKPab	Z 09:28:21.8							
TANN	e PKPbc	Z 09:28:13.0	149.0	20.9					
	e PKPab	Z 09:28:22.1							
TNS	e PKPbc	Z 09:28:15.1	149.9	13.8					
WET	e PKPab	Z 09:28:27.4	150.1	22.4					
WLF	e PKPbc	Z 09:28:17.8	150.8	9.7					
STU	e PKPbc	Z 09:28:18.2	151.2	15.8					

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RJOB	e	PKPab	Z	09:28:33.0	151.4	23.3
BFO	e	PKPab	Z	09:28:34.0	151.8	14.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/10	16:01:4.1	19.715S	171.095E	43.4				SZGRF

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	16:20:27.0	142.7	30.8			
BRG	e	PKPbc	Z	16:20:31.0	144.0	38.5			
CLL	e	PKPbc	Z	16:20:30.9	144.0	36.7			
NRDL	e	PKPbc	Z	16:20:32.8	144.0	31.5			
CLZ	e	PKPbc	Z	16:20:33.4	144.5	32.4			
IBBN	e	PKPbc	Z	16:20:34.6	144.9	28.0			
TANN	e	PKPbc	Z	16:20:34.5	144.9	36.7			
MOX	e	PKPbc	Z	16:20:34.9	145.1	35.2			
UBBA	e	PKPbc	Z	16:20:36.5	145.5	32.6			
WET	e	PKPbc	Z	16:20:37.3	145.8	38.4			
BUG	e	PKPbc	Z	16:20:37.4	145.8	27.8			
GRA1	e	PKPbc	Z	16:20:38.4	146.0	35.4			
	e	pPKPbc	Z	16:20:51.4					
TNS	e	PKPbc	Z	16:20:40.0	146.5	30.6			
RJOB	e	PKPbc	Z	16:20:41.2	146.9	39.6			
FUR	e	PKPbc	Z	16:20:41.6	147.2	36.9			
STU	e	PKPbc	Z	16:20:42.5	147.5	33.0			
WLF	e	PKPbc	Z	16:20:43.9	147.7	27.3			
BFO	e	PKPbc	Z	16:20:44.0	148.2	31.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/10	17:32:28.2	6.500N	124.600E	28.0	5.7	4.8		NEIC

Mindanao, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z	17:46:00.4	97.7	69.7	1.5	28	5.8
CLL	e	P	Z	17:46:02.1	98.1	68.9	1.6	26	5.7
BSEG	e	P	Z	17:46:03.7	98.6	66.3	1.2	17	5.7
TANN	e	P	Z	17:46:05.1	98.7	68.6	1.5	14	5.5
WET	e	P	Z	17:46:06.4	98.9	69.1	1.7	15	5.4
MOX	e	P	Z	17:46:06.9	99.1	67.9	1.7	25	5.7
NRDL	e	P	Z	17:46:07.0	99.3	66.4	1.3	26	5.8
CLZ	e	P	Z	17:46:08.3	99.4	66.7	1.2	25	5.8
GRA1	e	P	Z	17:46:08.9	99.7	67.7	1.6	23	5.6
	e	L	Z	18:35:43.3			20.4	295	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/11	02:03:55.1	36.710N	69.510E	33.0N	4.6			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:11:39.8	41.4	87.8	1.0	9	4.4		
GEC2	e P	Z 02:11:42.3	41.7	85.3	1.3	9	4.3		
CLL	e P	Z 02:11:44.5	42.0	87.6	0.8	6	4.4		
WET	e P	Z 02:11:45.7	42.2	85.1	1.3	5	4.1		
TANN	e P	Z 02:11:48.1	42.4	86.2	1.1	7	4.3		
RJOB	e P	Z 02:11:48.5	42.4	83.5	1.1	7	4.3		
MOX	e P	Z 02:11:51.9	42.9	85.8	1.2	11	4.5		
GRA1	e P	Z 02:11:54.9	43.2	84.5	1.1	21	4.8		
BSEG	e P	Z 02:11:56.4	43.5	88.3	0.7	22	5.0		
CLZ	e P	Z 02:11:57.5	43.6	86.2	1.3	28	4.8		
NRDL	e P	Z 02:11:57.6	43.7	86.7	0.8	11	4.6		
UBBA	e P	Z 02:11:58.9	43.9	84.8	0.6	6	4.4		
IBBN	e P	Z 02:12:10.4	45.2	84.7	1.4	65	5.4		
WLF	e P	Z 02:12:20.6	46.5	81.0	0.9	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/11	03:07:51.7	25.014N	121.969E	33.0N	4.7			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:20:16.1	83.4	58.5	1.3	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/11	06:51:37.7	9.500S	107.600E	13.0				NEIC

South of Jawa, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 07:09:37.5	101.3	91.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/11								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKP	Z 09:39:00.6							
TNS	e PKP	Z 09:38:56.5							
UBBA	e PKP	Z 09:38:56.8							
WET	e PKP	Z 09:38:58.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/11	09:57:35.4	20.596S	178.078W	175.9				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	10:17:00.4	148.1	19.9					
	e PKPab	Z	10:17:03.8							
BRG	e PKPbc	Z	10:17:00.9	148.3	21.8					
	e PKPab	Z	10:17:05.2							
	e pPKPab	Z	10:17:51.9							
NEUB	e PKPbc	Z	10:17:00.7	148.4	17.8					
	e PKPab	Z	10:17:05.4							
MOX	e PKPbc	Z	10:17:02.5	149.0	17.8					
	e PKPab	Z	10:17:07.5							
	e pPKPab	Z	10:17:51.0							
PLN	e PKPbc	Z	10:17:02.9	149.0	18.9					
	e PKPab	Z	10:17:07.9							
	e pPKPab	Z	10:17:52.4							
TANN	e PKPbc	Z	10:17:02.8	149.0	19.4					
	e PKPab	Z	10:17:07.8							
	e pPKPab	Z	10:17:52.5							
WERD	e PKPbc	Z	10:17:02.9	149.0	19.1					
	e PKPab	Z	10:17:08.2							
	e pPKPab	Z	10:17:51.7							
GUNZ	e PKPbc	Z	10:17:03.3	149.1	19.2					
	e PKPab	Z	10:17:08.5							
	e pPKPab	Z	10:17:52.8							
NKC	e PKPbc	Z	10:17:03.9	149.2	19.5					
	e PKPab	Z	10:17:09.1							
	e pPKPab	Z	10:17:52.7							
GRA1	e PKPbc	Z	10:17:05.1	150.0	17.6					
	e PKPab	Z	10:17:12.0							
WET	e PKPbc	Z	10:17:05.9	150.1	20.9					
	e PKPab	Z	10:17:13.0							
GEC2	e PKPpdf	Z	10:17:00.1	150.2	22.6					
	e PKPbc	Z	10:17:05.7							
	e PKPab	Z	10:17:13.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/11	21:35:13.5	22.510N	122.700E	33.0N	5.2	5.6		SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:47:40.2	83.7	61.6	1.2	24	5.3		

CLL	e P	Z	21:47:41.7	84.0	61.0	1.2	28	5.4		
TANN	e P	Z	21:47:45.7	84.8	60.5	1.3	12	5.0		
GEC2	e P	Z	21:47:45.9	84.8	61.3	1.2	19	5.2		
WERD	e P	Z	21:47:46.1	84.8	60.4	1.2	14	5.0		
GUNZ	e P	Z	21:47:46.3	84.9	60.4	1.2	19	5.2		
NRDL	e P	Z	21:47:46.4	85.0	58.9	1.3	23	5.3		
MOX	e P	Z	21:47:47.3	85.1	59.9	1.3	21	5.2		
WET	e P	Z	21:47:48.0	85.1	60.7	1.6	26	5.2		
CLZ	e P	Z	21:47:48.7	85.2	59.0	1.3	31	5.4		
GRA1	e P	Z	21:47:51.2	85.8	59.5	1.6	35	5.2		
	e PP	Z	21:51:11.1							
	e S	R	21:58:06.7							
	e L	Z	22:31:11.5			19.1	2261		5.6	
RJOB	e P	Z	21:47:50.9	85.9	60.6	1.2	12	4.9		
UBBA	e P	Z	21:47:51.6	85.9	58.7	1.9	37	5.2		
FUR	e P	Z	21:47:54.8	86.6	59.5	2.0	66	5.4		
BUG	e P	Z	21:47:56.9	87.0	56.7	1.3	27	5.2		
WLF	e P	Z	21:48:04.4	88.6	55.8	1.1	24	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/12 00:01:20.8 50.788N 178.594W 33.0N 4.7 4.6  
 Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:12:59.6	75.0	5.8	1.0	10	4.8		
CLZ	e P	Z	00:13:11.2	77.1	5.8	1.0	11	4.9		
CLL	e P	Z	00:13:12.9	77.4	7.5	0.8	4	4.6		
BUG	e P	Z	00:13:13.8	77.7	3.8	1.2	14	5.0		
BRG	e P	Z	00:13:14.8	77.8	8.1	1.0	5	4.7		
MOX	e P	Z	00:13:17.2	78.2	6.6	1.1	7	4.6		
TNS	e P	Z	00:13:20.5	78.8	4.5	1.0	13	4.9		
GRA1	e P	Z	00:13:22.8	79.2	6.3	0.9	12	4.8		
	e L	Z	00:48:01.9			21.7	322		4.6	
GEC2	e P	Z	00:13:26.1	79.8	7.9	1.2	6	4.4		
STU	e P	Z	00:13:28.3	80.2	5.0	1.0	8	4.7		
BFO	e P	Z	00:13:31.2	80.7	4.4	1.0	5	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/12

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPbc	Z	04:03:03.3							
GRA1	e PKPbc	Z	04:03:02.4							
MOX	e PKPbc	Z	04:03:00.6							
WET	e PKPbc	Z	04:03:03.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	05:39:16.8	54.015N	152.734E	33.0N	4.8			SZGRF

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:50:11.3	67.7	22.8	1.1	10	5.0		
CLL	e P	Z	05:50:21.9	69.4	23.9	1.1	12	4.9		
CLZ	e P	Z	05:50:23.0	69.6	22.5	1.1	11	4.9		
BRG	e P	Z	05:50:22.7	69.6	24.4	1.0	4	4.5		
MOX	e P	Z	05:50:27.7	70.4	23.1	0.9	4	4.6		
GRA1	e P	Z	05:50:33.8	71.4	22.7	1.6	29	5.2		
WET	e P	Z	05:50:34.4	71.4	23.6	1.1	6	4.7		
GEC2	e P	Z	05:50:34.6	71.5	24.0	1.3	6	4.5		
TNS	e P	Z	05:50:34.6	71.5	21.2	1.5	29	5.2		
FUR	e P	Z	05:50:42.0	72.8	22.5	0.6	9	5.1		
BFO	e P	Z	05:50:45.6	73.3	20.9	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	07:38: 6.9	20.643S	176.282W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:57:44.3	146.3	11.2					
CLL	e PKPbc	Z	07:57:49.7	148.5	16.8					
BRG	e PKPbc	Z	07:57:50.3	148.7	18.7					
PLN	e PKPbc	Z	07:57:52.3	149.4	15.7					
WERD	e PKPbc	Z	07:57:52.2	149.4	16.0					
TANN	e PKPbc	Z	07:57:52.4	149.4	16.2					
GUNZ	e PKPbc	Z	07:57:52.7	149.5	16.0					
GRA1	e PKPbc	Z	07:57:54.8	150.3	14.3					
GEC2	e PKPbc	Z	07:57:55.4	150.7	19.4					
WLF	e PKPbc	Z	07:57:56.5	150.9	4.7					
BFO	e PKPbc	Z	07:57:58.6	152.1	9.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKP	Z	08:54:19.5							
GUNZ	e PKP	Z	08:54:17.4							
NEUB	e PKP	Z	08:54:17.4							
PLN	e PKP	Z	08:54:17.4							

TANN	e PKP	Z	08:54:17.0
WERD	e PKP	Z	08:54:17.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	09:15:58.2	26.627S	176.443E	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e PKPbc	Z	09:35:53.2	153.2	33.2					
WERD	e PKPbc	Z	09:35:53.1	153.3	32.9					
PLN	e PKPbc	Z	09:35:53.1	153.3	32.6					
GUNZ	e PKPbc	Z	09:35:53.7	153.3	33.0					
MOX	e PKPbc	Z	09:35:53.5	153.3	31.4					
NKC	e PKPbc	Z	09:35:54.0	153.4	33.4					
GEC2	e PKPbc	Z	09:35:55.1	154.1	37.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	21:06:39.3	60.227N	151.457W	33.0N	4.8			SZGRF

Kenai Peninsula, Alaska, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z	21:17:29.6	67.0	350.3	0.7	8	5.1		
BUG	e P	Z	21:17:29.6	67.0	348.7	0.8	14	5.2		
CLL	e P	Z	21:17:34.0	67.8	351.7	1.2	8	4.8		
BRG	e P	Z	21:17:37.4	68.3	352.3	1.2	7	4.8		
MOX	e P	Z	21:17:37.6	68.3	351.0	1.5	16	5.0		
TNS	e P	Z	21:17:38.0	68.4	349.4	0.9	8	5.0		
GRA1	e P	Z	21:17:43.0	69.2	350.9	0.7	3	4.6		
WET	e P	Z	21:17:47.5	69.9	351.8	1.1	5	4.5		
GEC2	e P	Z	21:17:49.8	70.3	352.2	0.8	2	4.4		
RJOB	e P	Z	21:17:56.0	71.3	351.8	0.7	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	21:33: 4.6	53.785N	168.942W	33.0N	4.6			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z	21:44:40.1	74.4	359.6	1.2	7	4.6		
BUG	e P	Z	21:44:41.4	74.7	357.7	0.9	8	4.7		
CLL	e P	Z	21:44:42.1	74.9	1.2	1.0	4	4.3		
BRG	e P	Z	21:44:45.1	75.3	1.8	1.1	4	4.5		
MOX	e P	Z	21:44:46.3	75.6	0.3	0.9	4	4.5		
TNS	e P	Z	21:44:48.9	76.0	358.4	1.3	10	4.8		

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GRA1	e P	Z	21:44:51.9	76.5	0.1	0.8	6	4.8
GEC2	e P	Z	21:44:56.7	77.3	1.6			
STU	e P	Z	21:44:56.7	77.4	358.9	0.6	6	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	22:19:15.6	32.889N	47.960E	33.0N	4.6			SZGRF
Iran-Iraq border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:25:37.9	31.9	107.9	1.4	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/12	23:00:10.8	23.080S	164.185E	33.0N				SZGRF
New Caledonia region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e PKPbc	Z 23:19:42.7	144.9	49.3					
WERD	e PKPbc	Z 23:19:42.7	145.0	49.1					
GUNZ	e PKPbc	Z 23:19:43.2	145.0	49.2					
PLN	e PKPbc	Z 23:19:42.8	145.0	48.8					
MOX	e PKPbc	Z 23:19:43.8	145.2	47.9					
GEC2	e PKPbc	Z 23:19:44.4	145.3	52.7					
WET	e PKPbc	Z 23:19:44.9	145.5	51.3					
GRA1	e PKPbc	Z 23:19:46.4	146.0	48.4					
BUG	e PKPbc	Z 23:19:49.1	146.5	40.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/13	08:50:37.1	35.404N	70.732E	33.0N	4.2			SZGRF
Hindu Kush, Afghanistan, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:58:48.2	44.8	85.2	0.9	3	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/13	14:58:37.8	21.625N	121.855E	33.0N	5.8	6.7		SZGRF
Taiwan region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:11:04.8	83.9	62.8	2.3	241	6.0		
	e S	T 15:21:32.5							
CLL	e P	Z 15:11:06.2	84.3	62.1	1.4	75	5.7		

	e S	T	15:21:35.0								
BSEG	e S	T	15:21:38.6	84.4	60.3						
TANN	e P	Z	15:11:09.9	85.0	61.7	2.3		176	5.9		
	e S	T	15:21:40.5								
GEC2	e P	Z	15:11:10.1	85.0	62.5	1.8		76	5.6		
	e S	T	15:21:43.8								
NRDL	e P	Z	15:11:11.0	85.3	60.0	1.5		122	5.9		
	e S	T	15:21:45.0								
MOX	e P	Z	15:11:11.9	85.4	61.1	1.8		95	5.6		
	e S	T	15:21:46.6								
WET	e P	Z	15:11:12.1	85.4	61.9	2.5		177	5.8		
	e S	T	15:21:47.7								
CLZ	e P	Z	15:11:12.8	85.4	60.2	1.6		135	5.8		
	e S	T	15:21:47.0								
GRA1	e P	Z	15:11:15.5	86.0	60.7	2.4		309	6.0		
	e PP	Z	15:14:30.7								
	e S	T	15:21:47.6								
	e L	Z	15:54:28.9			20.4		31819		6.7	
RJOB	e P	Z	15:11:15.2	86.1	61.7	1.8		60	5.4		
	e S	T	15:21:52.4								
UBBA	e P	Z	15:11:15.9	86.2	59.9	1.8		82	5.6		
	e S	T	15:21:46.8								
IBBN	e P	Z	15:11:18.0	86.6	58.2	1.2		84	5.7		
FUR	e P	Z	15:11:19.1	86.8	60.7	2.7		583	6.2		
	e S	T	15:22:01.1								
BUG	e P	Z	15:11:21.5	87.3	57.8	1.6		81	5.8		
	e S	T	15:22:06.7								
TNS	e P	Z	15:11:21.7	87.3	58.7	2.3		206	6.0		
	e S	T	15:22:08.1								
STU	e P	Z	15:11:23.0	87.6	59.2	2.2		124	5.8		
	e S	T	15:22:09.7								
BFO	e P	Z	15:11:26.2	88.4	58.5	3.4		232	5.8		
	e S	T	15:22:17.5								
WLF	e P	Z	15:11:29.1	88.9	56.9	1.1		33	5.5		

Date  
2008/07/13

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta  
GRA1

Phase  
e PKPbc

Time  
Z 22:33:18.9

Dist

BAz

T[s]

A[nm]

mb

MS

ML

Date  
2008/07/14  
Gansu, China

Origin Time  
00:18:27.0

Lat  
37.122N

Long  
102.378E

Depth  
33.0N

mb  
4.5

Ms

ML

Source  
SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:28:52.7	63.3	63.2	1.3	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/14	00:19:55.5	44.081S	9.651W	33.0N	5.0			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:33:17.4	95.5	194.9	1.5	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/14								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 00:56:19.1							
CLL	e PKPdf	Z 00:56:18.9							
GEC2	e PKPdf	Z 00:56:21.6							
GRA1	e PKPdf	Z 00:56:22.0							
GUNZ	e PKPdf	Z 00:56:21.0							
TANN	e PKPdf	Z 00:56:21.0							
WET	e PKPdf	Z 00:56:22.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/14	03:51:40.2	45.393N	10.464E	10.0G			3.9	SZGRF

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 03:52:12.8	1.9	167.8					3.7
WTTA	e Pn	Z 03:52:13.0	2.0	203.8					3.9
	e Sn	E 03:52:38.2							
KBA	e Pn	Z 03:52:22.9	2.6	230.8					3.7
RJOB	e Pn	Z 03:52:25.3	2.8	215.2					3.7
OBKA	e Pn	Z 03:52:28.3	3.1	250.0					4.0
BFO	e Pn	Z 03:52:31.0	3.3	152.8					3.9
	e Sn	N 03:53:08.8							
MOA	e Pn	Z 03:52:35.6	3.6	228.1					3.8
ARSA	e Pn	Z 03:52:39.7	4.0	243.9					3.4
WET	e Pn	Z 03:52:40.5	4.1	204.5					3.7
	e Sn	E 03:53:27.0							
GEC2	e Pn	Z 03:52:40.8	4.1	213.7					3.7
	e Sn	N 03:53:26.1							
GRA1	e Pn	Z 03:52:43.3	4.3	187.1					4.4
TANN	e Pn	Z 03:52:55.7	5.2	195.7					

	e Sn	E	03:53:53.1		
MOX	e Pn	Z	03:52:56.4	5.3	188.8
	e Sn	E	03:53:55.5		
CLZ	e Pn	Z	03:53:13.1	6.4	179.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/14	04:44:52.5	2.360N	96.840E	36.0	5.4	5.3		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:57:17.9	83.7	94.0	1.5	35	5.4		
	e S	T	05:07:38.6							
GEC2	e P	Z	04:57:17.5	83.7	93.6	1.4	58	5.5		
	e S	T	05:07:38.6							
RJOB	e P	Z	04:57:20.1	84.2	92.8	0.9	24	5.4		
	e S	T	05:07:41.9							
WET	e P	Z	04:57:20.5	84.3	93.0	0.9	21	5.4		
	e S	T	05:07:44.1							
CLL	e P	Z	04:57:20.9	84.3	93.3	1.1	18	5.2		
	e S	T	05:07:45.2							
TANN	e P	Z	04:57:22.4	84.6	92.8	1.1	16	5.2		
	e S	T	05:07:48.5							
MOX	e P	Z	04:57:25.4	85.1	92.2	1.3	17	5.1		
	e S	T	05:07:50.8							
FUR	e S	T	05:07:52.5	85.3	91.7					
GRA1	e P	Z	04:57:26.6	85.4	91.8	0.9	50	5.8		
	e pP	Z	04:57:37.1							
	e S	T	05:07:55.9							
	e L	Z	05:41:54.7			21.8	1402		5.3	
CLZ	e P	Z	04:57:29.5	86.0	91.3	0.9	27	5.5		
	e S	T	05:07:59.8							
BSEG	e P	Z	04:57:30.6	86.0	91.4	1.4	39	5.4		
	e S	T	05:08:00.2							
NRDL	e P	Z	04:57:30.5	86.1	91.2					
	e S	T	05:08:04.0							
UBBA	e P	Z	04:57:29.6	86.2	91.0					
	e S	T	05:08:02.7							
STU	e S	T	05:08:09.5	86.7	90.2					
TNS	e P	Z	04:57:35.4	87.2	89.7	1.0	42	5.5		
	e S	T	05:08:14.0							
BFO	e P	Z	04:57:35.2	87.2	89.5	0.8	16	5.2		
	e S	T	05:08:14.0							
IBBN	e P	Z	04:57:37.7	87.6	89.3	1.1	63	5.6		
BUG	e P	Z	04:57:39.0	87.9	88.9	1.1	49	5.5		
	e S	T	05:08:20.6							
WLF	e P	Z	04:57:42.7	88.6	87.9	1.2	23	5.2		
	e S	T	05:08:28.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/14	15:37:39.7	23.710S	177.690W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	15:57:24.7	149.2	14.4					
CLL	e PKPbc	Z	15:57:30.0	151.2	20.6					
BRG	e PKPbc	Z	15:57:30.1	151.4	22.7					
MOX	e PKPbc	Z	15:57:30.9	152.1	18.5					
PLN	e PKPbc	Z	15:57:31.9	152.2	19.6					
TANN	e PKPbc	Z	15:57:32.4	152.2	20.2					
WERD	e PKPbc	Z	15:57:32.1	152.2	19.9					
GUNZ	e PKPbc	Z	15:57:32.5	152.2	20.0					
NKC	e PKPbc	Z	15:57:33.2	152.3	20.3					
TNS	e PKPbc	Z	15:57:34.4	153.1	12.5					
GEC2	e PKPbc	Z	15:57:34.7	153.3	23.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:39:58.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/15	03:26:31.9	35.962N	28.271E	33.0G	6.7			SZGRF
Eastern Mediterranean Sea								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	03:30:19.9	16.4	130.2	1.3	3072	6.3		
WET	e P	Z	03:30:32.1	17.3	133.8	1.0	6947	6.7		
FUR	e P	Z	03:30:33.4	17.5	128.0	1.0	17532	7.2		
BRG	e P	Z	03:30:41.4	18.1	139.9	1.0	2427	6.3		
	e S	R	03:34:02.9							
TANN	e P	Z	03:30:44.6	18.4	135.7	1.0	5804	6.7		
	e S	R	03:34:08.7							
GUNZ	e P	Z	03:30:45.2	18.4	135.3	1.0	6402	6.7		
GRA1	e P	Z	03:30:44.8	18.5	131.5	1.2	6697	6.8		
	e S	R	03:34:10.8							
WERD	e P	Z	03:30:45.8	18.5	135.4	1.1	5085	6.7		
CLL	e P	Z	03:30:49.3	18.8	138.7	0.9	3742	6.6		
STU	e P	Z	03:30:49.9	18.9	125.4	0.9	6963	6.9		
	e S	R	03:34:22.3							

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MOX	e P	Z	03:30:50.6	18.9	134.4	1.0	8468	6.9
BFO	e P	Z	03:30:52.0	19.2	122.8	1.0	5236	6.7
RUE	e P	Z	03:30:56.0	19.4	142.5	1.1	10558	7.0
	e S	R	03:34:37.0					
TNS	e P	Z	03:31:03.1	20.2	127.3	1.0	14910	7.2
	e S	R	03:34:45.9					
CLZ	e P	Z	03:31:04.5	20.3	134.3	1.2	1884	6.2
WLF	e P	Z	03:31:12.8	21.1	122.1	1.0	3993	6.7
RGN	e P	Z	03:31:14.8	21.3	144.8	0.9	6237	7.0
	e S	R	03:35:03.2					
BUG	e P	Z	03:31:17.1	21.5	127.8	1.1	4147	6.8
	e S	R	03:35:06.3					
IBBN	e P	Z	03:31:20.5	21.8	130.3	1.1	2039	6.5
	e S	R	03:35:12.6					
BSEG	e P	Z	03:31:20.1	21.9	138.0	1.0	2287	6.6
	e S	R	03:35:13.1					
HLG	e P	Z	03:31:30.1	23.0	133.9	1.0	2674	6.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/15 03:35: 8.3 21.560S 169.400E 39.3  
 Southeast of Loyalty Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	03:54:39.8	145.0	42.3					
	e pPKPbc	Z	03:54:51.6							
CLL	e PKPbc	Z	03:54:39.7	145.0	40.5					
	e pPKPbc	Z	03:54:51.7							
CLZ	e PKPbc	Z	03:54:42.3	145.6	36.1					
TANN	e PKPbc	Z	03:54:43.2	145.9	40.6					
	e pPKPbc	Z	03:54:55.2							
MOX	e PKPbc	Z	03:54:43.6	146.1	39.1					
	e pPKPbc	Z	03:54:55.4							
IBBN	e PKPbc	Z	03:54:43.6	146.1	31.7					
GEC2	e PKPbc	Z	03:54:45.2	146.6	44.0					
UBBA	e PKPbc	Z	03:54:45.4	146.6	36.5					
	e pPKPbc	Z	03:54:57.7							
WET	e PKPbc	Z	03:54:45.9	146.7	42.5					
	e pPKPbc	Z	03:54:57.6							
GRA1	e PKPbc	Z	03:54:46.7	147.0	39.4					
BUG	e PKPbc	Z	03:54:46.4	147.0	31.6					
TNS	e PKPbc	Z	03:54:48.3	147.7	34.6					
	e pPKPbc	Z	03:55:00.3							
WLF	e PKPbc	Z	03:54:52.2	148.9	31.3					
BFO	e PKPbc	Z	03:54:52.2	149.2	36.2					

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/07/15

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:05:28.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/07/15

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:14:39.5			0.8	12			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/15	09:26:36.4	32.760N	103.350E	33.0N	5.3	4.5		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 09:37:14.4	64.8	68.3	0.7	19	5.4		
CLL	e P	Z 09:37:16.6	65.2	67.9	0.9	14	5.2		
BSEG	e P	Z 09:37:20.6	65.7	67.1	0.8	38	5.7		
GEC2	e P	Z 09:37:20.3	65.7	67.3	0.8	10	5.1		
TANN	e P	Z 09:37:21.0	65.9	67.1	0.9	13	5.2		
WET	e P	Z 09:37:22.7	66.1	66.9	0.9	7	4.9		
MOX	e P	Z 09:37:23.6	66.3	66.7	0.7	6	4.9		
NRDL	e P	Z 09:37:24.1	66.4	66.4	0.9	23	5.4		
CLZ	e P	Z 09:37:25.4	66.5	66.3	0.7	26	5.5		
GRA1	e P	Z 09:37:27.8	66.9	66.0	0.7	33	5.7		
	e L	Z 10:08:50.5			18.9	273		4.5	
UBBA	e P	Z 09:37:28.6	67.1	65.6	0.8	5	4.8		
FUR	e P	Z 09:37:32.0	67.5	65.5	0.9	62	5.8		
IBBN	e P	Z 09:37:32.0	67.8	64.7	0.5	12	5.4		
TNS	e P	Z 09:37:36.4	68.3	64.4	0.9	14	5.2		
BFO	e P	Z 09:37:41.4	69.2	63.7	1.0	16	5.2		
WLF	e P	Z 09:37:46.6	69.9	62.7	0.8	40	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/15	10:33:26.2	16.630S	177.190W	33.0G				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 10:52:13.3	144.1	8.1					
CLZ	e PKPbc	Z 10:52:13.9	144.3	12.5					
CLL	e PKPbc	Z 10:52:14.1	144.4	16.9					

BRG	e	PKPbc	Z	10:52:14.7	144.6	18.6
NEUB	e	PKPbc	Z	10:52:15.3	144.7	15.0
BUG	e	PKPbc	Z	10:52:15.7	145.0	7.5
MOX	e	PKPbc	Z	10:52:16.7	145.3	14.9
WERD	e	PKPbc	Z	10:52:17.3	145.3	16.1
TANN	e	PKPbc	Z	10:52:17.0	145.3	16.4
GUNZ	e	PKPbc	Z	10:52:17.6	145.4	16.2
TNS	e	PKPbc	Z	10:52:19.6	146.1	9.7
GRA1	e	PKPbc	Z	10:52:20.1	146.2	14.6
WET	e	PKPbc	Z	10:52:21.6	146.5	17.7
GEC2	e	PKPbc	Z	10:52:20.6	146.6	19.2
WLF	e	PKPbc	Z	10:52:22.3	146.9	5.9
RJOB	e	PKPbc	Z	10:52:23.9	147.8	18.2
BFO	e	PKPbc	Z	10:52:24.3	148.0	10.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/15	14:19:34.2	50.697N	156.331E	33.0N	4.7	4.0		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 14:31:02.4	73.4	23.3	0.9	8	4.7		
CLZ	e P	Z 14:31:04.6	73.5	21.7	1.1	13	4.9		
MOX	e P	Z 14:31:08.4	74.3	22.3	1.0	6	4.6		
TANN	e P	Z 14:31:08.8	74.3	22.8	1.2	5	4.4		
WERD	e P	Z 14:31:09.8	74.3	22.7					
GUNZ	e P	Z 14:31:10.2	74.4	22.7					
ROTZ	e P	Z 14:31:12.7	75.0	22.6	1.3	7	4.5		
GRA1	e P	Z 14:31:14.4	75.3	22.0	0.8	10	5.0		
	e L	Z 15:11:28.1			19.6	67		4.0	
WET	e P	Z 14:31:15.6	75.4	22.9	1.1	9	4.8		
TNS	e P	Z 14:31:15.4	75.4	20.4	0.7	13	5.1		
BFO	e P	Z 14:31:25.1	77.2	20.1	0.9	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/15	23:52:19.7	34.523N	28.892E	33.0G	5.4			SZGRF

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 23:56:23.8	17.9	131.9	0.7	96	5.1		
WET	e P	Z 23:56:35.6	18.8	135.1	0.9	132	5.1		
FUR	e P	Z 23:56:37.1	18.9	129.7	0.9	411	5.7		
ROTZ	e P	Z 23:56:43.6	19.5	135.0	1.0	201	5.3		
BRG	e P	Z 23:56:45.0	19.6	140.7	1.0	109	5.0		
TANN	e P	Z 23:56:47.9	19.9	136.8	1.1	164	5.2		
GUNZ	e P	Z 23:56:48.0	19.9	136.4	1.2	231	5.3		

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GRA1	e P	Z	23:56:48.6	19.9	132.9	0.9	244	5.4
WERD	e P	Z	23:56:49.0	20.0	136.5	0.8	153	5.3
CLL	e P	Z	23:56:52.6	20.3	139.5	0.6	122	5.3
STU	e P	Z	23:56:53.4	20.4	127.1	0.8	347	5.6
MOX	e P	Z	23:56:53.7	20.4	135.5	1.0	286	5.4
BFO	e P	Z	23:56:55.6	20.6	124.6	0.6	115	5.4
RUE	e P	Z	23:56:59.3	20.9	143.1	0.9	357	5.7
TNS	e P	Z	23:57:06.4	21.6	128.7	0.8	533	6.0
CLZ	e P	Z	23:57:08.4	21.8	135.3	0.9	60	5.0
WLF	e P	Z	23:57:16.1	22.5	123.7	0.9	98	5.4
RGN	e P	Z	23:57:18.1	22.8	145.2	0.9	177	5.6
BUG	e P	Z	23:57:20.4	23.0	129.0	1.1	124	5.4
IBBN	e P	Z	23:57:23.7	23.3	131.4	0.7	50	5.1
BSEG	e P	Z	23:57:25.0	23.4	138.6	0.8	120	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:04:48.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/16	00:10:32.0	36.690N	27.360E	33.0G	3.8			SZGRF
Dodecanese Islands, Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 00:14:13.8	15.7	135.6	1.3	8	3.7		
WET	e P	Z 00:14:19.4	16.3	134.4	1.1	6	3.6		
FUR	e P	Z 00:14:20.6	16.4	128.3	1.2	13	3.9		
ROTZ	e P	Z 00:14:29.4	17.0	134.4	1.0	6	3.7		
BRG	e P	Z 00:14:29.1	17.1	140.8	0.8	2	3.3		
TANN	e P	Z 00:14:32.6	17.4	136.4	1.1	5	3.5		
GRA1	e P	Z 00:14:33.4	17.5	132.0	0.8	6	3.8		
CLL	e P	Z 00:14:36.3	17.8	139.5	0.7	4	3.7		
STU	e P	Z 00:14:38.5	17.9	125.6	0.6	11	4.2		
MOX	e P	Z 00:14:39.4	17.9	135.0	0.9	6	3.7		
BFO	e P	Z 00:14:41.6	18.1	122.9	0.6	4	3.7		
TNS	e P	Z 00:14:51.1	19.2	127.7	0.7	16	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/16	08:11: 4.6	17.987S	172.712W	29.4		5.4		SZGRF
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPpdf	Z	08:30:36.6	144.0	4.9					
NRDL	e PKPbc	Z	08:30:38.0	145.4	4.7					
IBBN	e PKPbc	Z	08:30:40.0	145.7	0.8					
CLZ	e PKPbc	Z	08:30:39.5	146.1	5.3					
CLL	e PKPbc	Z	08:30:40.5	146.4	9.8					
BUG	e PKPbc	Z	08:30:41.4	146.5	360.0					
BRG	e PKPbc	Z	08:30:41.7	146.7	11.6					
UBBA	e PKPbc	Z	08:30:42.6	147.1	4.8					
	e pPKPbc	Z	08:30:50.8							
MOX	e PKPbc	Z	08:30:43.0	147.2	7.6					
	e pPKPbc	Z	08:30:51.5							
WERD	e PKPbc	Z	08:30:42.9	147.3	8.9					
	e pPKPbc	Z	08:30:52.1							
TANN	e PKPbc	Z	08:30:44.1	147.3	9.1					
GUNZ	e PKPbc	Z	08:30:44.4	147.4	8.9					
	e pPKPbc	Z	08:30:52.7							
TNS	e PKPbc	Z	08:30:45.0	147.8	2.1					
ROTZ	e PKPbc	Z	08:30:45.4	148.0	8.8					
	e pPKPbc	Z	08:30:54.6							
GRA1	e PKPbc	Z	08:30:45.8	148.1	7.1					
	e pPKPbc	Z	08:30:56.1							
	e L	Z	09:40:06.4			20.5	616		5.4	
WLF	e PKPbc	Z	08:30:47.3	148.3	357.9					
WET	e PKPbc	Z	08:30:47.9	148.5	10.2					
GEC2	e PKPbc	Z	08:30:47.9	148.7	11.8					
	e pPKPbc	Z	08:30:56.5							
STU	e PKPbc	Z	08:30:48.3	149.2	3.5					
	e pPKPbc	Z	08:30:57.8							
BFO	e PKPbc	Z	08:30:50.7	149.6	2.0					
FUR	e PKPbc	Z	08:30:51.1	149.6	7.5					
	e pPKPbc	Z	08:30:59.2							
RJOB	e PKPbc	Z	08:30:51.5	149.9	10.5					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/16 13:02:30.2 47.200N 151.370E 33.0G 5.2 4.5 ML SZGRF  
 Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	13:14:03.2	73.6	26.4	1.1	22	5.1		
RUE	e P	Z	13:14:05.3	74.0	28.5	0.8	28	5.4		
HLG	e P	Z	13:14:04.6	74.0	24.9	0.9	259	6.2		
NRDL	e P	Z	13:14:09.6	75.0	26.1	1.2	18	5.0		
CLL	e P	Z	13:14:11.5	75.2	27.8	1.1	43	5.5		
BRG	e P	Z	13:14:12.3	75.3	28.4	1.0	12	5.0		
CLZ	e P	Z	13:14:13.9	75.5	26.2	1.3	48	5.5		
TANN	e P	Z	13:14:17.1	76.2	27.4	0.9	7	4.8		

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MOX	e P	Z	13:14:17.5	76.2	26.9	0.8	10	5.0		
GUNZ	e P	Z	13:14:17.9	76.2	27.3	0.8	13	5.1		
UBBA	e P	Z	13:14:18.9	76.5	25.9	0.6	5	4.8		
BUG	e P	Z	13:14:20.2	76.7	24.2	1.1	28	5.3		
ROTZ	e P	Z	13:14:21.2	76.8	27.2	1.2	17	5.1		
WET	e P	Z	13:14:23.3	77.2	27.5	1.3	35	5.3		
GRA1	e P	Z	13:14:23.4	77.2	26.5	0.8	30	5.5		
	e L	Z	13:52:32.4			19.9	246			4.5
GEC2	e P	Z	13:14:22.6	77.2	28.0					
TNS	e P	Z	13:14:24.9	77.5	24.8	0.8	25	5.4		
RJOB	e P	Z	13:14:30.2	78.4	27.3	1.0	12	4.9		
FUR	e P	Z	13:14:30.9	78.5	26.4	1.0	30	5.3		
BFO	e P	Z	13:14:34.0	79.2	24.6	1.1	16	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/16 15:07:15.2 39.410N 95.770E 33.0N 4.7  
 Gansu, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:16:50.1	55.8	67.6	1.0	7	4.7		
CLL	e P	Z	15:16:52.5	56.2	67.3	0.7	6	4.7		
TANN	e P	Z	15:16:58.0	56.9	66.4	1.0	5	4.5		
WET	e P	Z	15:16:59.6	57.1	65.9	1.0	3	4.3		
MOX	e P	Z	15:17:00.6	57.3	66.0	0.9	4	4.4		
ROTZ	e P	Z	15:17:01.2	57.3	65.9	0.9	6	4.6		
CLZ	e P	Z	15:17:02.3	57.5	66.0	0.8	9	4.9		
RJOB	e P	Z	15:17:04.6	57.8	65.0	0.8	4	4.5		
GRA1	e P	Z	15:17:05.0	57.9	65.2	0.7	21	5.3		
FUR	e P	Z	15:17:08.4	58.5	64.4	0.5	27	5.5		
BFO	e P	Z	15:17:20.9	60.2	62.8	2.0	20	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/16 17:09: 7.5 31.830S 178.000W 36.7 4.8  
 Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	17:29:02.3	157.1	18.4					
	e PKPab	Z	17:29:30.2							
CLL	e PKPab	Z	17:29:37.7	158.9	26.8					
	e pPKPab	Z	17:29:48.5							
BRG	e PKPdf	Z	17:29:04.8	159.0	29.4					
	e PKPab	Z	17:29:38.4							
CLZ	e PKPdf	Z	17:29:03.9	159.1	20.3					
	e PKPab	Z	17:29:39.2							
IBBN	e PKPab	Z	17:29:39.0	159.1	13.8					

	e pPKPab	Z	17:29:50.1									
TANN	e PKPpdf	Z	17:29:05.3	159.9	26.6							
	e PKPab	Z	17:29:42.3									
MOX	e PKPab	Z	17:29:41.8	159.9	24.4							
	e pPKPab	Z	17:29:52.5									
UBBA	e PKPab	Z	17:29:43.5	160.1	20.3							
ROTZ	e PKPab	Z	17:29:45.8	160.5	26.8							
GEC2	e PKPpdf	Z	17:29:06.0	160.8	31.7							
	e PKPab	Z	17:29:46.5									
GRA1	e PKPpdf	Z	17:29:05.5	160.9	24.5							
	e PKPab	Z	17:29:46.7									
	e pPKPab	Z	17:29:57.3									
	e L	Z	18:31:29.2			20.6	139	4.8				
WET	e PKPab	Z	17:29:46.8	160.9	29.3							
	e pPKPab	Z	17:29:58.0									
TNS	e PKPab	Z	17:29:47.5	161.0	17.0							
WLF	e PKPab	Z	17:29:51.7	161.9	11.4							
RJOB	e PKPab	Z	17:29:52.6	162.1	31.2							
STU	e PKPab	Z	17:29:52.6	162.2	20.4							
FUR	e PKPab	Z	17:29:53.1	162.2	26.6							
BFO	e PKPab	Z	17:29:54.8	162.8	18.5							

Date 2008/07/16 Origin Time 17:23:43.2 Lat 16.800N Long 148.100E Depth 10.0 mb Ms ML Source NEIC  
Mariana Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 17:42:04.5	103.4	42.3					

Date 2008/07/16 Origin Time 22:58:21.4 Lat 33.045N Long 92.410E Depth 18.5 mb Ms ML Source SZGRF  
Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 23:08:11.1	58.1	75.4	1.0	13	4.9		
CLL	e P	Z 23:08:14.0	58.5	75.0	1.0	11	4.8		
GEC2	e P	Z 23:08:16.3	58.8	74.0	1.3	18	5.0		
	e pP	Z 23:08:21.3							
	e PP	Z 23:10:26.9							
TANN	e P	Z 23:08:18.3	59.1	74.1	1.2	14	4.9		
	e pP	Z 23:08:23.5							
WET	e P	Z 23:08:19.1	59.2	73.7	1.3	13	4.8		
	e pP	Z 23:08:24.4							
BSEG	e P	Z 23:08:20.8	59.4	74.7	1.0	25	5.2		
ROTZ	e P	Z 23:08:21.2	59.4	73.6	1.3	30	5.1		

MOX	e P	Z	23:08:21.4	59.6	73.7	1.3	12	4.8		
RJOB	e P	Z	23:08:22.3	59.7	72.8	1.5	20	4.9		
NRDL	e P	Z	23:08:23.4	59.9	73.7	1.2	30	5.2		
CLZ	e P	Z	23:08:24.5	60.0	73.5	1.0	20	5.1		
GRA1	e P	Z	23:08:25.6	60.1	72.9	1.2	26	5.1		
	e PP	Z	23:10:37.8							
	e L	Z	23:36:33.0			18.2	1092		5.0	
FUR	e P	Z	23:08:28.4	60.5	72.1	1.6	84	5.3		
	e pP	Z	23:08:33.6							
TNS	e P	Z	23:08:35.7	61.6	71.4	1.5	37	5.4		
STU	e P	Z	23:08:35.9	61.6	71.1	1.0	18	5.3		
	e pP	Z	23:08:40.8							
BFO	e P	Z	23:08:39.8	62.3	70.3	1.1	13	5.1		
WLF	e P	Z	23:08:46.8	63.2	69.6	1.2	37	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/17 01:11:40.1 41.956N 29.081W 33.0N 4.7 3.7 ML SZGRF  
 Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	01:17:05.2	25.5	266.0	1.0	30	4.9		
BFO	e P	Z	01:17:18.2	26.9	270.4	1.3	18	4.7		
STU	e P	Z	01:17:23.8	27.4	270.2	1.3	27	4.9		
NRDL	e P	Z	01:17:28.8	28.2	263.9	1.0	16	4.8		
CLZ	e P	Z	01:17:31.0	28.3	265.3	1.1	10	4.5		
BSEG	e P	Z	01:17:32.0	28.5	261.5	1.0	34	5.1		
GRA1	e P	Z	01:17:35.1	28.8	270.0	1.0	13	4.7		
	e L	Z	01:28:06.7			20.8	214		3.7	
FUR	e P	Z	01:17:36.5	28.8	272.8	1.2	30	5.0		
MOX	e P	Z	01:17:37.3	29.0	268.6	1.4	17	4.7		
ROTZ	e P	Z	01:17:40.6	29.4	270.6	1.5	9	4.4		
WERD	e P	Z	01:17:41.0	29.5	269.5	1.3	10	4.5		
GUNZ	e P	Z	01:17:41.8	29.5	269.6	1.4	15	4.6		
TANN	e P	Z	01:17:42.1	29.6	269.7	1.4	13	4.6		
WET	e P	Z	01:17:44.7	29.8	272.2	1.1	15	4.7		
RJOB	e P	Z	01:17:45.4	29.9	274.6	0.9	7	4.5		
CLL	e P	Z	01:17:44.5	29.9	268.5	1.3	12	4.5		
GEC2	e P	Z	01:17:49.8	30.4	273.3	1.6	22	4.7		
RUE	e P	Z	01:17:49.9	30.4	267.2	1.4	36	5.1		
BRG	e P	Z	01:17:50.1	30.5	270.0	1.3	8	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/17 09:48:48.6 18.212S 172.360W 33.0N ML SZGRF  
 Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	10:08:22.9	145.7	4.2					
IBBN	e PKPbc	Z	10:08:25.0	145.9	0.2					
CLZ	e PKPbc	Z	10:08:26.2	146.3	4.7					
CLL	e PKPbc	Z	10:08:26.7	146.6	9.3					
BUG	e PKPbc	Z	10:08:27.2	146.8	359.4					
BRG	e PKPbc	Z	10:08:28.0	147.0	11.0					
MOX	e PKPbc	Z	10:08:28.8	147.4	7.0					
TANN	e PKPbc	Z	10:08:29.6	147.6	8.6					
TNS	e PKPbc	Z	10:08:30.7	148.0	1.4					
ROTZ	e PKPbc	Z	10:08:31.5	148.2	8.3					
GRA1	e PKPbc	Z	10:08:31.9	148.4	6.5					
WLF	e PKPbc	Z	10:08:32.7	148.5	357.3					
WET	e PKPbc	Z	10:08:32.9	148.8	9.6					
STU	e PKPbc	Z	10:08:34.4	149.4	2.9					
BFO	e PKPbc	Z	10:08:35.5	149.9	1.3					
RJOB	e PKPbc	Z	10:08:35.6	150.2	9.9					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/17 16:24:23.7 21.398S 179.136W 33.0N  
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	16:44:02.3	146.7	16.2					
CLL	e PKPbc	Z	16:44:07.5	148.6	22.1					
BRG	e PKPbc	Z	16:44:07.7	148.8	24.0					
MOX	e PKPbc	Z	16:44:09.8	149.6	20.0					
TANN	e PKPbc	Z	16:44:09.9	149.6	21.7					
PLN	e PKPbc	Z	16:44:09.6	149.6	21.1					
WERD	e PKPbc	Z	16:44:09.0	149.6	21.4					
GUNZ	e PKPbc	Z	16:44:10.1	149.7	21.5					
GRA1	e PKPbc	Z	16:44:12.0	150.5	19.9					
TNS	e PKPbc	Z	16:44:12.1	150.6	14.5					
GEC2	e PKPbc	Z	16:44:12.3	150.7	25.0					
WLF	e PKPbc	Z	16:44:14.8	151.4	10.3					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/17 16:40:45.3 31.535N 104.331E 16.3 5.4 4.5  
 Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:51:30.3	66.3	68.6	0.9	23	5.4		
	e pP	Z	16:51:34.9			0.9	23			
CLL	e P	Z	16:51:32.4	66.7	68.1	0.9	19	5.3		
	e pP	Z	16:51:37.0			0.9	19			

BSEG	e P	Z	16:51:36.6	67.2	67.3	1.0	38	5.6	
	e pP	Z	16:51:41.2			1.0	38		
GEC2	e P	Z	16:51:36.3	67.2	67.6	1.0	21	5.3	
	e pP	Z	16:51:40.9			1.0	21		
TANN	e P	Z	16:51:37.0	67.3	67.4	1.0	16	5.2	
	e pP	Z	16:51:41.6			1.0	16		
WET	e P	Z	16:51:38.8	67.6	67.2	1.1	14	5.1	
	e pP	Z	16:51:43.4			1.1	14		
ROTZ	e P	Z	16:51:40.1	67.7	67.0	1.0	34	5.5	
	e pP	Z	16:51:44.7			1.0	34		
MOX	e P	Z	16:51:39.5	67.7	66.9	1.1	16	5.2	
	e pP	Z	16:51:44.1			1.1	16		
NRDL	e P	Z	16:51:39.9	67.9	66.6	1.0	27	5.4	
	e pP	Z	16:51:44.5			1.0	27		
CLZ	e P	Z	16:51:41.5	68.0	66.5	0.9	37	5.6	
	e pP	Z	16:51:46.1			0.9	37		
RJOB	e P	Z	16:51:42.8	68.2	66.6	1.4	26	5.3	
	e pP	Z	16:51:47.3			1.4	26		
GRA1	e P	Z	16:51:43.9	68.3	66.3	1.0	46	5.7	
	e pP	Z	16:51:48.5			1.0	46		
	e L	Z	17:23:11.6			19.7	313		4.5
UBBA	e P	Z	16:51:44.8	68.6	65.9	1.2	5	4.6	
	e pP	Z	16:51:49.4						
FUR	e P	Z	16:51:47.6	68.9	65.8	1.0	85	5.9	
	e pP	Z	16:51:52.3			1.0	85		
IBBN	e P	Z	16:51:49.2	69.3	64.9	1.2	23	5.3	
	e pP	Z	16:51:53.8			1.2	23		
TNS	e P	Z	16:51:52.2	69.8	64.6	1.2	32	5.3	
	e pP	Z	16:51:56.8			1.2	32		
BUG	e P	Z	16:51:53.2	69.9	64.3	1.2	28	5.3	
	e pP	Z	16:51:57.9			1.2	28		
STU	e P	Z	16:51:53.2	69.9	64.7	0.7	28	5.5	
	e pP	Z	16:51:57.8			0.9	33		
BFO	e P	Z	16:51:57.3	70.6	64.0	1.0	22	5.2	
	e pP	Z	16:52:02.0			1.0	22		
WLF	e P	Z	16:52:02.5	71.3	62.9	1.0	54	5.6	
	e pP	Z	16:52:07.1			1.0	54		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/17 18:22: 5.9 54.113N 160.592W 33.0N 4.9 4.2 SZGRF  
 Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:33:50.0	76.0	355.1	1.6	16	4.9		
	e L	Z 19:10:59.0			20.3	116		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/17	22:36:22.2	44.940N	130.190W	33.0N	5.0			SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	22:48:06.3	75.6	332.3	1.8	58	5.4		
IBBN	e P	Z	22:48:10.1	76.3	330.8	1.6	63	5.5		
NRDL	e P	Z	22:48:12.0	76.8	332.3	1.6	28	5.2		
BUG	e P	Z	22:48:13.0	76.9	330.6	1.4	23	5.1		
CLZ	e P	Z	22:48:17.2	77.4	332.6	2.0	77	5.5		
WLF	e P	Z	22:48:20.2	78.1	330.0	1.4	22	5.1		
UBBA	e P	Z	22:48:20.4	78.2	332.4	1.9	38	5.1		
TNS	e P	Z	22:48:21.2	78.3	331.5	1.6	44	5.2		
CLL	e P	Z	22:48:23.1	78.6	334.4	1.7	34	5.1		
MOX	e P	Z	22:48:24.3	78.8	333.5	1.5	20	4.9		
BRG	e P	Z	22:48:26.9	79.3	335.0	1.4	24	4.9		
TANN	e P	Z	22:48:26.8	79.3	334.1	1.5	12	4.6		
GRA1	e P	Z	22:48:28.7	79.6	333.3	1.4	31	5.0		
	e S	R	22:58:40.1							
STU	e P	Z	22:48:29.5	79.8	332.1					
ROTZ	e P	Z	22:48:29.7	79.8	334.0	1.4	13	4.7		
BFO	e P	Z	22:48:30.0	79.9	331.6	1.3	16	4.8		
WET	e P	Z	22:48:33.6	80.6	334.5	1.4	12	4.7		
FUR	e P	Z	22:48:36.0	81.0	333.5	1.4	29	5.1		
GEC2	e P	Z	22:48:36.3	81.1	335.0	1.5	14	4.8		
RJOB	e P	Z	22:48:40.1	81.8	334.5	0.9	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/17	22:52: 4.7	45.220N	129.202W	38.3	5.5	5.4		SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:03:43.6	75.0	331.7	1.3	75	5.6		
RGN	e P	Z	23:03:45.3	75.3	333.7	1.5	203	6.0		
IBBN	e P	Z	23:03:47.4	75.7	330.3	1.6	191	6.0		
NRDL	e P	Z	23:03:49.3	76.2	331.8	1.4	72	5.6		
BUG	e P	Z	23:03:50.2	76.3	330.0	1.5	56	5.5		
CLZ	e P	Z	23:03:54.4	76.9	332.0	1.4	105	5.8		
RUE	e P	Z	23:03:55.8	77.3	334.2	1.4	80	5.7		
WLF	e P	Z	23:03:57.5	77.5	329.5	1.7	92	5.6		
UBBA	e P	Z	23:03:58.4	77.7	331.9	1.6	68	5.5		
TNS	e P	Z	23:03:58.5	77.7	330.9	1.5	92	5.7		
CLL	e P	Z	23:04:00.3	78.1	333.8	1.3	84	5.7		
MOX	e P	Z	23:04:01.5	78.3	333.0	1.3	65	5.5		
WERD	e P	Z	23:04:03.5	78.7	333.4	1.4	25	5.1		
BRG	e P	Z	23:04:04.1	78.8	334.5	1.4	119	5.7		

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TANN	e P	Z	23:04:04.1	78.8	333.5	1.5	42	5.3		
GUNZ	e P	Z	23:04:04.1	78.8	333.5	1.3	33	5.2		
GRA1	e P	Z	23:04:06.0	79.0	332.8	1.5	137	5.8		
	e pP	Z	23:04:17.0							
	e L	Z	23:41:01.4			18.0	1652		5.4	
STU	e P	Z	23:04:06.8	79.2	331.6	1.4	52	5.3		
ROTZ	e P	Z	23:04:06.9	79.3	333.4	1.4	57	5.3		
BFO	e P	Z	23:04:07.2	79.4	331.1	1.4	77	5.4		
WET	e P	Z	23:04:10.8	80.0	333.9	1.4	51	5.2		
FUR	e P	Z	23:04:13.3	80.4	333.0	1.5	105	5.6		
GEC2	e P	Z	23:04:13.5	80.5	334.5	1.3	48	5.4		
RJOB	e P	Z	23:04:17.4	81.3	334.0	1.2	32	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	00:34:47.9	20.530S	177.110W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 00:54:24.8	146.1	12.5					
NRDL	e PKPbc	Z 00:54:27.6	147.6	12.7					
CLL	e PKPbc	Z 00:54:30.1	148.2	18.2					
BRG	e PKPbc	Z 00:54:31.2	148.4	20.1					
TANN	e PKPbc	Z 00:54:32.9	149.2	17.7					
ROTZ	e PKPbc	Z 00:54:34.8	149.8	17.6					
GRA1	e PKPbc	Z 00:54:35.8	150.1	15.8					
GEC2	e PKPbc	Z 00:54:35.7	150.4	20.8					
WLF	e PKPbc	Z 00:54:37.0	150.8	6.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	02:25: 6.4	44.335N	147.795E	33.0N	4.8	4.4		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 02:36:53.8	76.7	31.4	0.7	11	5.1		
CLZ	e P	Z 02:36:57.1	77.1	29.8	0.9	13	5.0		
IBBN	e P	Z 02:36:58.6	77.4	28.1	1.2	25	5.2		
MOX	e P	Z 02:36:59.9	77.7	30.5	1.2	7	4.7		
UBBA	e P	Z 02:37:02.8	78.1	29.4	1.4	11	4.8		
ROTZ	e P	Z 02:37:03.1	78.3	30.7	1.2	7	4.5		
GEC2	e P	Z 02:37:04.8	78.5	31.6	0.9	3	4.3		
WET	e P	Z 02:37:04.8	78.6	31.1	1.2	10	4.7		
GRA1	e P	Z 02:37:05.5	78.6	30.1	1.1	13	4.9		
	e L	Z 03:16:52.6			19.5	166		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	05:41:50.8	2.630S	79.687W	42.0	4.9	4.4		SZGRF

Near coast of Ecuador

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:54:59.3	92.6	269.0	1.2	7	4.9		
	e pP	Z 05:55:11.6							
	e L	Z 06:30:32.3			18.6	116		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	12:47:13.4	38.230N	86.630E	33.0N	4.8	4.6		SZGRF

Southern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:56:14.3	51.1	74.4	1.0	12	4.8		
CLL	e P	Z 12:56:17.2	51.6	74.1	1.1	17	4.9		
GEC2	e P	Z 12:56:19.4	51.9	72.7	1.1	10	4.7		
TANN	e P	Z 12:56:21.8	52.2	73.1	0.9	6	4.6		
WERD	e P	Z 12:56:22.4	52.2	73.1	1.0	7	4.6		
WET	e P	Z 12:56:22.6	52.3	72.4	1.0	7	4.5		
BSEG	e P	Z 12:56:24.2	52.4	74.3	0.8	9	4.7		
ROTZ	e P	Z 12:56:25.0	52.5	72.5	1.0	8	4.6		
MOX	e P	Z 12:56:25.0	52.6	72.8	1.0	6	4.5		
RJOB	e P	Z 12:56:26.2	52.8	71.4	2.1	23	4.7		
NRDL	e P	Z 12:56:26.9	53.0	73.1	1.0	14	4.8		
CLZ	e P	Z 12:56:28.0	53.0	72.8	0.9	12	4.8		
GRA1	e P	Z 12:56:29.6	53.1	71.8	0.9	20	5.1		
	e L	Z 13:23:46.8			18.4	528		4.6	
UBBA	e P	Z 12:56:31.6	53.5	71.9	1.4	10	4.7		
FUR	e P	Z 12:56:32.7	53.6	70.8	3.0	325	5.8		
TNS	e P	Z 12:56:40.0	54.7	70.5	1.1	14	4.9		
BUG	e P	Z 12:56:43.1	54.9	70.6	1.2	23	5.1		
BFO	e P	Z 12:56:45.6	55.4	69.2	1.0	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	13:56:23.9	44.330N	147.570E	34.3	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 14:08:12.2	76.5	29.8	0.7	4	4.7		
CLL	e P	Z 14:08:13.4	76.6	31.6	0.6	15	5.3		
BRG	e P	Z 14:08:13.7	76.7	32.1	0.9	7	4.8		
CLZ	e P	Z 14:08:15.4	77.0	29.9	0.8	13	5.1		
IBBN	e P	Z 14:08:18.1	77.4	28.2	0.8	18	5.1		

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TANN	e P	Z	14:08:18.7	77.5	31.1	0.9	2	4.2
MOX	e P	Z	14:08:18.8	77.6	30.6	0.8	6	4.7
UBBA	e P	Z	14:08:21.2	78.0	29.6	0.9	5	4.5
ROTZ	e P	Z	14:08:21.5	78.2	30.9	1.2	8	4.6
GEC2	e P	Z	14:08:23.6	78.5	31.8	0.9	4	4.3
WET	e P	Z	14:08:24.3	78.5	31.3	1.0	9	4.7
GRA1	e P	Z	14:08:24.8	78.6	30.2	1.0	20	5.0
	e pP	Z	14:08:34.0					
BFO	e P	Z	14:08:35.5	80.7	28.2	0.9	7	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	14:24:28.7	46.505N	153.322E	33.0N	4.8			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	14:36:13.9	76.1	25.1	0.9	7	4.8		
CLL	e P	Z	14:36:15.3	76.4	26.9	0.6	7	4.9		
CLZ	e P	Z	14:36:16.6	76.6	25.2	0.8	6	4.7		
GRA1	e P	Z	14:36:26.2	78.4	25.6	0.6	12	5.1		
WET	e P	Z	14:36:27.6	78.4	26.6	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/18	20:35:42.5	19.781S	170.931E	116.9				SZGRF
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	20:55:01.1	144.0	38.8					
CLL	e PKPbc	Z	20:55:00.8	144.0	37.0					
CLZ	e PKPbc	Z	20:55:03.1	144.5	32.7					
IBBN	e PKPbc	Z	20:55:04.3	144.9	28.3					
TANN	e PKPbc	Z	20:55:03.9	144.9	37.0					
WERD	e PKPbc	Z	20:55:04.4	145.0	36.7					
PLN	e PKPbc	Z	20:55:04.6	145.0	36.4					
GUNZ	e PKPbc	Z	20:55:04.6	145.0	36.8					
MOX	e PKPbc	Z	20:55:04.9	145.1	35.5					
UBBA	e pPKPbc	Z	20:55:38.0	145.5	32.9					
ROTZ	e PKPbc	Z	20:55:06.8	145.6	37.1					
	e pPKPbc	Z	20:55:37.6							
GEC2	e PKPbc	Z	20:55:06.4	145.7	40.2					
	e pPKPbc	Z	20:55:37.9							
WET	e pPKPbc	Z	20:55:38.2	145.8	38.7					
GRA1	e PKPbc	Z	20:55:07.7	146.0	35.7					
RJOB	e PKPbc	Z	20:55:11.0	146.9	39.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	02:39:34.2	38.700N	142.660E	33.0N	6.4	7.6		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:51:35.7	78.7	36.0	1.2	357	6.3		
	e S	T	03:01:39.2							
	e SS	T	03:06:37.9							
BRG	e P	Z	02:51:41.2	79.8	38.2	1.4	256	6.0		
	e S	T	03:01:45.0							
	e SS	T	03:06:50.0							
CLL	e P	Z	02:51:41.0	79.8	37.6	1.1	306	6.1		
	e S	T	03:01:44.7							
	e SS	T	03:06:50.3							
NRDL	e P	Z	02:51:41.1	79.9	35.7	1.9	768	6.3		
	e S	T	03:01:44.7							
	e SS	T	03:06:53.3							
CLZ	e P	Z	02:51:44.8	80.4	35.8	2.1	1278	6.6		
	e S	T	03:01:50.9							
	e SS	T	03:07:01.0							
TANN	e P	Z	02:51:46.5	80.7	37.2	2.0	428	6.1		
	e S	T	03:01:55.0							
	e SS	T	03:07:05.7							
MOX	e P	Z	02:51:47.1	80.9	36.6	2.1	715	6.3		
	e S	T	03:01:55.9							
	e SS	T	03:07:08.2							
IBBN	e P	Z	02:51:47.3	80.9	34.0	1.4	619	6.4		
	e S	T	03:01:55.0							
	e SS	T	03:07:06.6							
UBBA	e P	Z	02:51:49.4	81.3	35.5	1.6	261	6.1		
	e S	T	03:02:00.8							
	e SS	T	03:07:13.1							
ROTZ	e P	Z	02:51:50.1	81.4	36.9	1.8	675	6.5		
	e S	T	03:02:02.2							
	e SS	T	03:07:15.7							
GEC2	e P	Z	02:51:50.0	81.5	37.9	2.1	479	6.3		
	e S	T	03:02:02.6							
	e SS	T	03:07:17.6							
WET	e P	Z	02:51:51.0	81.6	37.3	2.1	715	6.4		
	e S	T	03:02:04.4							
	e SS	T	03:07:19.9							
GRA1	e P	Z	02:51:52.3	81.8	36.2	2.3	2545	6.9		
	e S	T	03:02:06.3							
	e SS	T	03:07:21.7							
BUG	e PKPPKPdf	Z	03:18:17.9	81.8	33.6	19.2	247182	7.6		
	e L	Z	03:31:57.5							
	e P	Z	02:51:51.7							
	e S	T	03:02:05.1							

	e SS	T	03:07:21.5						
TNS	e P	Z	02:51:55.1	82.4	34.4	2.2	1068	6.7	
	e S	T	03:02:12.6						
	e SS	T	03:07:28.6						
RJOB	e P	Z	02:51:56.9	82.7	37.1	1.5	433	6.4	
	e S	T	03:02:16.0						
	e SS	T	03:07:41.0						
STU	e P	Z	02:51:59.7	83.3	34.8	1.5	480	6.5	
	e S	T	03:02:21.7						
	e SS	T	03:07:44.6						
WLF	e P	Z	02:52:02.1	83.7	32.7	1.7	684	6.6	
	e S	T	03:02:26.8						
BFO	e P	Z	02:52:03.0	84.0	34.1	1.8	617	6.5	
	e S	T	03:02:28.6						
	e SS	T	03:07:55.7						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/19 06:17:44.0 38.116N 71.534E 33.0N 4.4  
 Afghanistan-Tajikistan border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 06:25:30.8	41.8	84.6	0.9	9	4.5		
GEC2	e P	Z 06:25:33.8	42.2	82.2	1.7	10	4.3		
CLL	e P	Z 06:25:34.5	42.4	84.4	0.8	7	4.5		
WET	e P	Z 06:25:38.2	42.7	82.0	1.3	6	4.1		
TANN	e P	Z 06:25:38.6	42.8	83.1	1.0	4	4.0		
ROTZ	e P	Z 06:25:41.1	43.1	82.2	1.3	8	4.3		
MOX	e P	Z 06:25:42.7	43.3	82.8	0.9	5	4.2		
GRA1	e P	Z 06:25:46.3	43.7	81.5					
BSEG	e P	Z 06:25:46.1	43.8	85.3	0.7	10	4.6		
CLZ	e P	Z 06:25:47.1	44.0	83.1	2.1	27	4.6		
NRDL	e P	Z 06:25:47.2	44.0	83.6	1.0	13	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/19 08:14: 5.1 10.626S 66.214E 20.4 5.0  
 Mid-Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:25:55.3	77.0	124.3	1.4	18	5.0		
	e pP	Z 08:26:01.2							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/19 09:27: 3.1 10.790S 165.250E 33.0N 6.7  
 SZGRF

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 09:46:15.7	132.5	34.3					
	e PP	Z 09:48:38.8							
BRG	e PKPdf	Z 09:46:17.8	133.6	40.6					
	e PP	Z 09:48:44.9							
CLL	e PKPdf	Z 09:46:17.6	133.6	39.2					
	e PP	Z 09:48:45.2							
NRDL	e PKPdf	Z 09:46:17.1	133.7	34.8					
	e PP	Z 09:48:45.5							
CLZ	e PKPdf	Z 09:46:19.3	134.2	35.5					
	e PP	Z 09:48:49.6							
TANN	e PKPdf	Z 09:46:19.8	134.5	39.0					
	e PP	Z 09:48:51.4							
MOX	e PKPdf	Z 09:46:19.9	134.7	37.8					
	e PP	Z 09:48:52.5							
IBBN	e PKPdf	Z 09:46:20.1	134.7	31.9					
	e PP	Z 09:48:52.4							
	e SS	R 10:06:48.8							
ROTZ	e PKPdf	Z 09:46:21.0	135.1	39.1					
	e PP	Z 09:48:55.4							
	e SS	R 10:06:52.4							
UBBA	e PKPdf	Z 09:46:20.9	135.1	35.7					
	e PP	Z 09:48:55.5							
GEC2	e PKPdf	Z 09:46:20.9	135.2	41.6					
	e PP	Z 09:48:55.4							
	e SS	R 10:06:52.2							
WET	e PKPdf	Z 09:46:21.4	135.3	40.4					
	e PP	Z 09:48:56.4							
	e SS	R 10:06:53.8							
BUG	e PKPdf	Z 09:46:21.7	135.6	31.7					
	e PP	Z 09:48:58.0							
GRA1	e PKPdf	Z 09:46:21.8	135.6	37.9					
	e PP	Z 09:48:58.1							
	e SS	R 10:06:58.3							
TNS	e L	Z 10:49:52.2	136.2	34.0	21.6	15616		6.7	
	e PKPdf	Z 09:46:23.1							
	e PP	Z 09:49:02.4							
RJOB	e SS	R 10:07:06.6	136.4	41.2					
	e PKPdf	Z 09:46:23.0							
	e PP	Z 09:49:03.9							
STU	e PKPdf	Z 09:46:24.9	137.1	35.8					
	e PP	Z 09:49:07.7							
WLF	e PKPdf	Z 09:46:26.4	137.4	31.2					
	e PP	Z 09:49:10.6							
BFO	e PKPdf	Z 09:46:26.0	137.8	35.0					
	e PP	Z 09:49:11.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	11:01:22.2	11.100S	164.500E	43.0				NEIC
Santa Cruz Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	11:20:34.7	132.5	35.4					
BRG	e PKPdf	Z	11:20:36.8	133.5	41.7					
CLL	e PKPdf	Z	11:20:36.6	133.6	40.3					
NRDL	e PKPdf	Z	11:20:37.1	133.7	36.0					
CLZ	e PKPdf	Z	11:20:38.4	134.2	36.7					
TANN	e PKPdf	Z	11:20:38.9	134.5	40.2					
MOX	e PKPdf	Z	11:20:39.0	134.6	39.0					
IBBN	e PKPdf	Z	11:20:39.2	134.7	33.0					
ROTZ	e PKPdf	Z	11:20:40.1	135.1	40.3					
GEC2	e PKPdf	Z	11:20:39.9	135.1	42.7					
UBBA	e PKPdf	Z	11:20:40.0	135.1	36.8					
WET	e PKPdf	Z	11:20:40.6	135.3	41.5					
GRA1	e PP	Z	11:23:16.9	135.5	39.1					
BUG	e PKPdf	Z	11:20:41.0	135.6	32.9					
TNS	e PKPdf	Z	11:20:42.1	136.2	35.1					
RJOB	e PKPdf	Z	11:20:42.1	136.4	42.4					
STU	e PKPdf	Z	11:20:44.0	137.1	37.0					
WLF	e PKPdf	Z	11:20:44.5	137.5	32.4					
BFO	e PKPdf	Z	11:20:45.1	137.8	36.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	11:15:29.1	11.000S	164.500E	43.0				NEIC
Santa Cruz Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:34:45.4	135.5	39.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	11:22:40.8	16.759S	175.527W	33.0N				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	11:42:13.1	144.8	14.3					
BRG	e PKPbc	Z	11:42:13.9	145.1	16.0					
PLN	e PKPbc	Z	11:42:15.8	145.7	13.1					
WERD	e PKPbc	Z	11:42:15.9	145.7	13.4					
TANN	e PKPbc	Z	11:42:15.9	145.7	13.7					
GUNZ	e PKPbc	Z	11:42:16.2	145.8	13.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	18:27:42.9	35.796N	72.200E	141.8	4.6			SZGRF
Pakistan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:35:59.6	45.5	83.7	1.4	9	4.6		
	e pP	Z 18:36:31.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	22:34: 9.8	20.330S	177.920W	515.8				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 22:52:50.5	145.8	13.8					
NRDL	e PKPbc	Z 22:52:53.2	147.2	14.0					
IBBN	e PKPbc	Z 22:52:55.9	147.7	10.0					
CLZ	e PKPbc	Z 22:52:56.5	147.8	14.7					
	e PKPab	Z 22:52:59.9							
CLL	e PKPbc	Z 22:52:56.0	147.9	19.5					
	e PKPab	Z 22:53:00.3							
BRG	e PKPbc	Z 22:52:56.7	148.1	21.4					
	e PKPab	Z 22:53:01.3							
MOX	e PKPbc	Z 22:52:58.4	148.8	17.4					
	e PKPab	Z 22:53:03.9							
TANN	e PKPbc	Z 22:52:58.8	148.8	19.0					
	e PKPab	Z 22:53:04.2							
ROTZ	e PKPbc	Z 22:53:00.3	149.5	18.9					
	e PKPab	Z 22:53:07.6							
TNS	e PKPbc	Z 22:53:01.0	149.7	11.9					
	e PKPab	Z 22:53:08.3							
GRA1	e PKPbc	Z 22:53:01.1	149.7	17.2					
	e PKPab	Z 22:53:08.5							
	e pPKPbc	Z 22:55:01.4							
WET	e PKPbc	Z 22:53:01.2	149.9	20.5					
	e PKPab	Z 22:53:09.4							
GEC2	e PKPbc	Z 22:53:01.3	150.0	22.2					
	e PKPab	Z 22:53:09.4							
WLF	e PKPbc	Z 22:53:03.1	150.5	7.8					
	e PKPab	Z 22:53:11.5							
	e pPKPbc	Z 22:55:04.0							
STU	e PKPbc	Z 22:53:03.9	151.0	13.9					
	e PKPab	Z 22:53:13.2							
RJOB	e PKPbc	Z 22:53:03.6	151.3	21.3					
	e PKPab	Z 22:53:15.2							

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BFO	e PKPbc	Z	22:53:04.6	151.6	12.4
	e PKPab	Z	22:53:15.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/19	22:39: 9.5	18.411S	177.484W	381.8				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z	22:58:36.5	144.0	12.6					
NRDL	e PKP	Z	22:58:40.3	145.4	12.8					
IBBN	e PKP	Z	22:58:43.5	145.9	8.9					
CLZ	e PKP	Z	22:58:44.2	146.0	13.4					
CLL	e PKPbc	Z	22:58:45.0	146.1	18.0					
BRG	e PKPbc	Z	22:58:46.1	146.3	19.8					
NEUB	e PKPbc	Z	22:58:46.2	146.4	16.0					
BUG	e PKPdf	Z	22:58:45.6	146.8	8.2					
MOX	e PKPdf	Z	22:58:45.8	147.0	16.0					
TANN	e PKPdf	Z	22:58:45.8	147.0	17.5					
	e PKPbc	Z	22:58:48.3							
	e pPKPbc	Z	23:00:23.1							
UBBA	e PKPdf	Z	22:58:45.6	147.1	13.1					
NKC	e PKPbc	Z	22:58:49.2	147.2	17.6					
ROTZ	e PKPdf	Z	22:58:46.9	147.7	17.4					
	e PKPbc	Z	22:58:50.5							
	e pPKPbc	Z	23:00:23.2							
TNS	e PKPdf	Z	22:58:47.2	147.8	10.6					
	e PKPbc	Z	22:58:50.7							
GRA1	e PKPdf	Z	22:58:46.6	147.9	15.7					
	e PKPbc	Z	22:58:51.0							
WET	e PKPdf	Z	22:58:47.4	148.2	18.9					
	e PKPbc	Z	22:58:51.5							
	e pPKPbc	Z	23:00:23.9							
GEC2	e PKPdf	Z	22:58:47.8	148.2	20.5					
	e PKPbc	Z	22:58:51.8							
WLF	e PKPdf	Z	22:58:49.0	148.6	6.6					
	e PKPbc	Z	22:58:53.1							
STU	e PKPdf	Z	22:58:49.2	149.2	12.4					
	e PKPbc	Z	22:58:54.3							
	e pPKPbc	Z	23:00:26.5							
RJOB	e PKPdf	Z	22:58:49.6	149.5	19.5					
	e PKPbc	Z	22:58:55.0							
BFO	e PKPdf	Z	22:58:50.0	149.7	11.0					
	e PKPbc	Z	22:58:55.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/07/19 23:19:58.0 0.842S 96.432E 20.2 4.9 SZGRF  
Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:32:43.0	87.5	94.2	0.9	6	4.9		
	e pP	Z 23:32:48.9							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/19

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:35:13.6							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/20 02:23: 7.7 39.509N 142.711E 33.0N 5.0 SZGRF  
Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:35:20.1	81.1	35.8	1.8	29	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/20 05:33:21.0 42.991N 145.478E 33.0N 4.6 SZGRF  
Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:45:22.4	79.1	32.2	1.1	7	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/20 08:21:47.8 5.320N 61.440E 21.3 5.2 4.1 SZGRF  
Carlsberg Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 08:31:54.8	60.2	122.3	1.7	26	5.0		
ROTZ	e P	Z 08:31:57.2	60.6	120.1	1.4	12	4.6		
TANN	e P	Z 08:31:58.9	60.8	120.6	1.6	23	4.7		
GUNZ	e P	Z 08:31:59.3	60.8	120.5	1.2	27	5.0		
	e pP	Z 08:32:05.4							
WERD	e P	Z 08:31:59.5	60.9	120.5					
CLL	e P	Z 08:32:00.1	61.0	121.6	1.4	30	4.9		
GRA1	e P	Z 08:32:00.4	61.1	119.1	1.3	30	5.0		
	e pP	Z 08:32:06.2							

	e L	Z	09:01:00.6			21.5	139		4.1
RUE	e P	Z	08:32:01.3	61.2	122.9	1.0	47	5.3	
MOX	e P	Z	08:32:02.8	61.4	119.9	2.6	79	5.1	
STU	e P	Z	08:32:05.3	61.9	116.8	1.8	27	5.2	
BFO	e P	Z	08:32:08.5	62.2	115.8	1.3	61	5.7	
	e pP	Z	08:32:14.4						
CLZ	e P	Z	08:32:11.6	62.6	119.3	1.3	48	5.5	
TNS	e P	Z	08:32:13.5	63.0	116.8	1.5	57	5.5	
NRDL	e P	Z	08:32:13.7	63.1	119.3	1.4	46	5.4	
BSEG	e P	Z	08:32:17.9	63.7	120.2	1.5	46	5.5	
WLF	e P	Z	08:32:20.7	64.0	114.5	1.1	32	5.4	
BUG	e P	Z	08:32:21.6	64.2	116.2	2.0	54	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/20	11:08:30.2	35.500N	22.100E	19.0G	4.1			NOA
Central Mediterranean Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:12:17.8	16.3	146.7	0.8	12	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/20	14:16:31.6	38.776N	145.552E	33.0N	5.2			SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:28:53.0	82.8	34.2	0.8	12	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/20	21:30:20.6	32.965N	131.850E	33.0N	4.6			SZGRF
Kyushu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:42:37.9	82.0	46.8	0.9	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/20	21:31:58.0	34.544N	140.261E	33.0N	4.9			SZGRF
Near east coast of eastern Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:44:27.6	84.4	40.0	1.7	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/21	09:01:15.4	39.810N	143.070E	33.0G	5.1	5.1		SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 09:13:12.7	77.8	35.2	1.6	42	5.3		
BRG	e P	Z 09:13:18.6	79.0	37.4	1.2	11	4.8		
CLL	e P	Z 09:13:18.2	79.0	36.8	1.2	20	5.0		
CLZ	e P	Z 09:13:21.4	79.5	35.0	1.1	18	4.9		
MOX	e P	Z 09:13:23.6	80.1	35.8	1.3	15	4.8		
ROTZ	e P	Z 09:13:27.3	80.6	36.1	1.3	14	4.8		
WET	e P	Z 09:13:28.5	80.8	36.5	1.3	10	4.7		
GRA1	e P	Z 09:13:29.1	81.0	35.4	1.5	51	5.3		
	e S	T 09:23:38.2							
	e L	Z 09:53:27.7			18.9	755		5.1	
TNS	e P	Z 09:13:31.2	81.6	33.6	3.5	446	6.0		
RJOB	e P	Z 09:13:34.1	82.0	36.3	1.4	14	4.9		
WLF	e P	Z 09:13:39.3	82.8	31.9	1.5	42	5.4		
BFO	e P	Z 09:13:39.6	83.2	33.3	1.5	32	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/21	11:30:30.8	37.850N	143.370E	33.0N	6.1	6.1		SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 11:42:29.2	78.2	38.1	1.0	379	6.5		
RUE	e P	Z 11:42:36.9	79.6	38.2	1.1	221	6.1		
BSEG	e P	Z 11:42:37.7	79.7	35.9	1.1	190	5.9		
	e PP	Z 11:45:39.7							
	e S	T 11:52:39.6							
BRG	e P	Z 11:42:43.1	80.8	38.2	1.4	180	5.9		
	e PP	Z 11:45:48.1							
	e S	T 11:52:50.7							
CLL	e P	Z 11:42:42.9	80.8	37.5	1.1	217	6.1		
	e PP	Z 11:45:48.1							
	e S	T 11:52:49.6							
NRDL	e P	Z 11:42:43.1	81.0	35.6	1.4	136	5.8		
	e PP	Z 11:45:48.6							
	e S	T 11:52:50.5							
CLZ	e P	Z 11:42:46.6	81.4	35.7	1.2	258	6.1		
	e PP	Z 11:45:53.8							
	e S	T 11:52:57.3							
TANN	e P	Z 11:42:48.3	81.8	37.1	1.7	146	5.8		
	e PP	Z 11:45:55.3							
	e S	T 11:53:00.8							

WERD	e P	Z	11:42:48.4	81.8	37.0	1.5	143	5.9	
GUNZ	e P	Z	11:42:48.8	81.8	37.0	1.5	164	5.9	
MOX	e P	Z	11:42:48.9	81.9	36.5	1.5	189	6.0	
	e PP	Z	11:45:56.5						
	e S	T	11:53:02.2						
IBBN	e P	Z	11:42:49.2	81.9	33.9	1.1	199	6.2	
	e PP	Z	11:45:58.1						
ROTZ	e P	Z	11:42:51.9	82.4	36.9	1.6	299	6.2	
	e PP	Z	11:46:01.1						
	e S	T	11:53:08.4						
GEC2	e P	Z	11:42:52.0	82.5	37.8	1.5	132	5.9	
	e PP	Z	11:46:00.8						
	e S	T	11:53:09.1						
WET	e P	Z	11:42:52.9	82.6	37.3	1.5	179	6.0	
	e PP	Z	11:46:02.4						
	e S	T	11:53:11.1						
BUG	e P	Z	11:42:53.8	82.8	33.5	1.5	170	6.1	
	e PP	Z	11:46:05.5						
	e S	T	11:53:11.6						
GRA1	e P	Z	11:42:54.2	82.8	36.2	1.3	393	6.5	
	e PP	Z	11:46:04.5						
	e S	T	11:53:12.9						
	e L	Z	12:22:52.2			18.5	8167		6.1
TNS	e P	Z	11:42:57.0	83.4	34.3	1.5	173	6.1	
	e PP	Z	11:46:10.1						
	e S	T	11:53:19.2						
RJOB	e P	Z	11:42:58.7	83.8	37.1	1.3	179	6.1	
	e PP	Z	11:46:12.9						
	e S	T	11:53:21.8						
FUR	e P	Z	11:43:00.0	84.0	36.1	1.2	285	6.4	
	e PP	Z	11:46:14.9						
	e S	T	11:53:24.8						
STU	e P	Z	11:43:01.5	84.3	34.7	1.2	221	6.3	
	e PP	Z	11:46:18.1						
	e S	T	11:53:28.1						
WLF	e P	Z	11:43:03.9	84.7	32.6	1.8	416	6.4	
	e PP	Z	11:46:21.9						
BFO	e P	Z	11:43:04.9	85.0	34.1	1.2	230	6.3	
	e PP	Z	11:46:23.9						
	e S	T	11:53:34.7						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/21 20:14:52.5 23.320S 174.710W 33.0N  
 Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	20:34:34.5	151.4	14.9					

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BRG	e	PKPbc	Z	20:34:35.4	151.6	16.9
NEUB	e	PKPbc	Z	20:34:35.8	151.7	12.6
PLN	e	PKPbc	Z	20:34:36.6	152.3	13.7
	e	PKPab	Z	20:34:46.7		
WERD	e	PKPab	Z	20:34:47.0	152.3	14.0
TANN	e	PKPbc	Z	20:34:37.2	152.3	14.3
GRA1	e	PKPab	Z	20:34:50.3	153.2	12.2
WET	e	PKPbc	Z	20:34:40.1	153.5	15.8
GEC2	e	PKPab	Z	20:34:52.7	153.6	17.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/21	20:31:56.7	36.337N	141.196E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 20:44:09.5	81.3	40.4	0.8	3	4.6		
CLL	e P	Z 20:44:09.5	81.3	39.8	0.7	6	4.8		
GUNZ	e P	Z 20:44:15.1	82.3	39.3	0.7	3	4.6		
GEC2	e P	Z 20:44:17.4	82.9	40.1	0.7	2	4.4		
GRA1	e P	Z 20:44:20.4	83.3	38.4	1.1	13	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22	22:46:17.7	15.852S	172.841W	33.0N		4.9		SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 23:05:47.9	144.2	9.6					
MOX	e PKPbc	Z 23:05:50.4	145.0	7.5					
TANN	e PKPbc	Z 23:05:50.3	145.2	9.0					
TNS	e PKPbc	Z 23:05:52.3	145.6	2.2					
ROTZ	e PKPbc	Z 23:05:53.2	145.8	8.7					
GRA1	e PKPbc	Z 23:05:53.5	146.0	7.0					
WLF	e PKPbc	Z 23:05:54.4	146.2	358.3					
WET	e PKPbc	Z 23:05:54.8	146.4	10.0					
GEC2	e PKPbc	Z 23:05:55.1	146.6	11.5					
STU	e PKPbc	Z 23:05:56.6	147.0	3.6					
BFO	e PKPbc	Z 23:05:57.9	147.5	2.1					
FUR	e PKPbc	Z 23:05:58.0	147.5	7.4					
RJOB	e PKPbc	Z 23:05:58.8	147.8	10.2					
GRA1	e L	Z 00:03:47.1	146.0	7.0	21.2	235		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 07:39:07.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22	08:39:28.2	17.060S	175.368W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 08:58:54.7	142.9	9.0					
NRDL	e PKPbc	Z 08:58:57.9	144.3	9.0					
IBBN	e PKPbc	Z 08:59:00.3	144.7	5.2					
CLZ	e PKPbc	Z 08:59:01.4	144.9	9.6					
CLL	e PKPbc	Z 08:59:01.2	145.1	14.1					
BRG	e PKPbc	Z 08:59:01.1	145.4	15.8					
BUG	e PKPbc	Z 08:59:02.5	145.6	4.5					
MOX	e PKPbc	Z 08:59:03.9	146.0	12.0					
TANN	e PKPbc	Z 08:59:04.4	146.1	13.5					
ROTZ	e PKPbc	Z 08:59:06.4	146.7	13.3					
GRA1	e PKPbc	Z 08:59:06.8	146.9	11.6					
WET	e PKPbc	Z 08:59:07.6	147.2	14.7					
GEC2	e PKPbc	Z 08:59:07.9	147.4	16.2					
BFO	e PKPbc	Z 08:59:11.2	148.6	6.8					
RJOB	e PKPbc	Z 08:59:11.0	148.6	15.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22	08:47:10.2	38.996N	139.558E	33.0N	5.6	5.3		SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 08:59:01.6	77.3	38.1					
BRG	e P	Z 08:59:07.0	78.3	40.2					
CLL	e P	Z 08:59:07.1	78.4	39.6					
CLZ	e P	Z 08:59:10.7	79.0	37.9					
ROTZ	e P	Z 08:59:16.0	79.9	38.9					
UBBA	e P	Z 08:59:16.2	79.9	37.5					
GEC2	e P	Z 08:59:16.0	80.0	39.8					
WET	e P	Z 08:59:16.6	80.1	39.3					
GRA1	e P	Z 08:59:18.4	80.3	38.2	1.2	70	5.6		
	e L	Z 09:39:01.6			19.7	1289		5.3	
TNS	e P	Z 08:59:21.6	81.0	36.4					
STU	e P	Z 08:59:26.0	81.9	36.7					
WLF	e P	Z 08:59:28.9	82.3	34.7					
BFO	e P	Z 08:59:29.3	82.6	36.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:03:05.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22	18:30:10.0	23.560S	177.750W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 18:49:54.8	149.0	14.5					
NRDL	e PKPbc	Z 18:49:57.4	150.5	14.7					
CLL	e PKPbc	Z 18:49:59.5	151.0	20.7					
	e PKPab	Z 18:50:06.6							
CLZ	e PKPbc	Z 18:49:59.9	151.0	15.5					
BRG	e PKPbc	Z 18:50:00.3	151.2	22.7					
BUG	e PKPbc	Z 18:50:01.8	151.9	9.8					
MOX	e PKPbc	Z 18:50:02.0	152.0	18.5					
TANN	e PKPbc	Z 18:50:02.3	152.0	20.2					
UBBA	e PKPbc	Z 18:50:02.1	152.1	15.3					
ROTZ	e PKPbc	Z 18:50:03.5	152.7	20.2					
TNS	e PKPbc	Z 18:50:04.3	152.9	12.5					
	e PKPab	Z 18:50:15.1							
GRA1	e PKPab	Z 18:50:14.9	152.9	18.3					
GEC2	e PKPbc	Z 18:50:04.5	153.1	23.8					
WLF	e PKPbc	Z 18:50:06.6	153.7	8.1					
	e PKPab	Z 18:50:18.6							
STU	e PKPbc	Z 18:50:07.2	154.2	14.7					
FUR	e PKPab	Z 18:50:21.5	154.4	19.4					
RJOB	e PKPbc	Z 18:50:07.0	154.4	22.9					
	e PKPab	Z 18:50:21.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/22	21:19:59.6	12.881N	90.298E	29.2	4.9			SZGRF
Andaman Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 21:31:17.2	71.5	92.3	0.8	8	4.9		
GEC2	e P	Z 21:31:17.4	71.5	91.4	0.8	6	4.8		
CLL	e P	Z 21:31:20.1	72.1	91.7	0.9	6	4.7		
WET	e P	Z 21:31:21.0	72.1	90.9	0.9	5	4.7		
ROTZ	e P	Z 21:31:23.8	72.5	90.6	1.1	10	4.9		

	e pP	Z	21:31:32.1						
MOX	e P	Z	21:31:25.7	72.9	90.4	0.7	5	4.7	
GRA1	e P	Z	21:31:27.5	73.2	89.8	1.2	15	5.0	
	e pP	Z	21:31:35.8						
CLZ	e P	Z	21:31:30.1	73.7	89.8	0.7	11	5.0	
	e pP	Z	21:31:38.5						
BSEG	e P	Z	21:31:30.6	73.7	90.3	0.9	11	4.9	
	e pP	Z	21:31:38.8						
TNS	e P	Z	21:31:37.2	74.9	87.8	1.2	17	4.9	
	e pP	Z	21:31:45.5						

Date 2008/07/22 Origin Time 21:26:16.8 Lat 31.237N Long 94.227E Depth 33.0N mb 5.2 Ms ML Source SZGRF  
Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:36:37.0	62.4	73.2	1.9	34	5.2		

Date 2008/07/23 Origin Time 03:22:26.3 Lat 44.752N Long 11.231E Depth 10.0G mb Ms ML Source SZGRF  
Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pn	Z	03:23:06.5	2.5	186.5					3.5
DAVA	e Pn	Z	03:23:09.5	2.7	159.2					3.4
	e Sn	E	03:23:41.1							
KBA	e Pg	Z	03:23:15.8	2.8	213.1					3.3
OBKA	e Pn	Z	03:23:12.0	2.9	234.1					3.6
	e Sn	N	03:23:45.9							
RJOB	e Pn	Z	03:23:15.9	3.2	200.5					3.4
FUR	e Pg	Z	03:23:28.1	3.4	180.5					3.8
MOA	e Pn	Z	03:23:22.9	3.7	215.2					3.3
ARSA	e Pn	Z	03:23:24.5	3.9	231.6					3.2
BFO	e Pn	Z	03:23:26.7	4.1	149.8					3.5
	e Sn	N	03:24:12.1							
STU	e Pg	Z	03:23:45.1	4.3	160.1					4.0
GEC2	e Pn	Z	03:23:31.4	4.4	203.4					3.3
	e Sn	N	03:24:20.5							
WET	e Pn	Z	03:23:32.8	4.5	195.0					3.5
	e Sn	N	03:24:23.2							
GRA1	e Pg	Z	03:23:56.4	4.9	179.9					3.8
	e Sn	N	03:24:31.6							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	05:14:16.7	19.855S	179.253W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 05:33:55.9	147.1	21.6					
BRG	e PKPbc	Z 05:33:56.7	147.3	23.4					
WERD	e PKPbc	Z 05:33:58.6	148.1	20.9					
GUNZ	e PKPbc	Z 05:33:58.9	148.1	21.0					
GEC2	e PKPbc	Z 05:34:01.7	149.2	24.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	09:13:28.9	17.939S	177.980W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 09:32:57.3	143.4	13.3					
NRDL	e PKPbc	Z 09:33:00.5	144.9	13.4					
IBBN	e PKPbc	Z 09:33:03.5	145.3	9.6					
CLZ	e PKPbc	Z 09:33:03.6	145.5	14.1					
CLL	e PKPbc	Z 09:33:03.2	145.5	18.7					
BRG	e PKPbc	Z 09:33:04.1	145.7	20.4					
BUG	e PKPbc	Z 09:33:05.9	146.2	9.0					
TANN	e PKPbc	Z 09:33:06.4	146.5	18.2					
ROTZ	e PKPbc	Z 09:33:08.7	147.1	18.1					
TNS	e PKPbc	Z 09:33:08.5	147.3	11.4					
GRA1	e PKPbc	Z 09:33:08.9	147.4	16.4					
GEC2	e PKPbc	Z 09:33:09.5	147.7	21.1					
WLF	e PKPbc	Z 09:33:11.3	148.1	7.5					
RJOB	e PKPbc	Z 09:33:12.8	148.9	20.2					
BFO	e PKPbc	Z 09:33:13.4	149.2	11.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPbc	Z 13:43:59.5							
GRA1	e PKPbc	Z 13:43:55.0							
RJOB	e PKPbc	Z 13:43:58.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	15:26:19.0	40.350N	143.590E	115.0	6.7			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	15:37:55.6	76.0	36.8	1.2	1876	7.1		
RUE	e P	Z	15:38:03.6	77.5	36.8	1.1	1242	6.9		
BSEG	e P	Z	15:38:04.2	77.5	34.6	1.1	1290	7.0		
	e S	T	15:47:48.4							
HLG	e P	Z	15:38:07.6	78.1	32.9	1.1	1010	6.8		
BRG	e P	Z	15:38:10.0	78.7	36.8	1.1	553	6.6		
	e S	T	15:47:59.9							
CLL	e P	Z	15:38:09.8	78.7	36.2	1.0	996	6.9		
	e S	T	15:47:59.1							
NRDL	e P	Z	15:38:09.7	78.8	34.3	1.3	571	6.6		
	e S	T	15:47:59.8							
CLZ	e P	Z	15:38:13.6	79.2	34.4	1.3	1476	6.9		
	e S	T	15:48:05.6							
TANN	e P	Z	15:38:15.3	79.7	35.7	1.7	640	6.4		
	e S	T	15:48:10.2							
WERD	e P	Z	15:38:15.4	79.7	35.6	1.3	560	6.4		
IBBN	e P	Z	15:38:16.0	79.7	32.7	1.2	1205	6.8		
	e S	T	15:48:10.3							
GUNZ	e P	Z	15:38:15.8	79.7	35.6	1.2	630	6.5		
MOX	e P	Z	15:38:15.9	79.8	35.1	1.2	652	6.5		
	e PP	Z	15:41:16.1							
	e S	T	15:48:11.2							
UBBA	e P	Z	15:38:18.1	80.2	34.1	1.5	533	6.2		
	e S	T	15:48:15.8							
ROTZ	e P	Z	15:38:19.1	80.3	35.5	1.4	979	6.6		
	e S	T	15:48:17.7							
GEC2	e P	Z	15:38:19.1	80.5	36.4	1.4	450	6.2		
	e S	T	15:48:18.6							
WET	e P	Z	15:38:20.2	80.5	35.8	1.4	882	6.5		
	e S	T	15:48:20.0							
BUG	e P	Z	15:38:20.6	80.6	32.2	1.3	972	6.6		
	e S	T	15:48:20.7							
GRA1	e P	Z	15:38:21.4	80.7	34.8	1.2	2210	7.0		
	e pP	Z	15:38:50.6							
	e sP	Z	15:39:01.4							
	e PP	Z	15:41:32.6							
	e S	T	15:48:21.6							
	e sS	T	15:49:07.9							
	e PKKpbc	Z	15:56:59.5							
	e PKPPKpdf	Z	16:04:54.7							
	e pPKPPKpdf	Z	16:05:29.9							
TNS	e P	Z	15:38:24.0	81.3	32.9	1.3	1239	6.8		
	e S	T	15:48:27.3							
RJOB	e P	Z	15:38:26.3	81.7	35.7	1.0	723	6.6		
	e S	T	15:48:33.0							
FUR	e P	Z	15:38:27.8	81.9	34.7	1.0	818	6.8		
	e S	T	15:48:34.5							

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STU	e P	Z	15:38:29.4	82.2	33.3	1.0	968	6.9
	e S	T	15:48:36.6					
WLF	e P	Z	15:38:31.2	82.5	31.3	2.1	1577	6.8
	e S	T	15:48:42.2					
BFO	e P	Z	15:38:32.4	82.9	32.7	1.5	1645	6.9
	e S	T	15:48:43.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	17:30:53.2	37.262N	103.008E	33.0N	4.8			SZGRF
Gansu, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:41:07.0	61.5	64.9	1.2	6	4.7		
BSEG	e P	Z 17:41:12.5	62.1	64.1	0.8	8	5.0		
ROTZ	e P	Z 17:41:16.5	62.9	63.3	0.7	3	4.6		
CLZ	e P	Z 17:41:17.6	63.0	63.1	0.9	6	4.8		
GRA1	e P	Z 17:41:20.7	63.5	62.7	0.7	5	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	18:35:11.8	65.762N	17.667W	33.0N	4.3			SZGRF
Iceland								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:40:02.6	21.9	327.9	1.4	18	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	19:54:47.9	32.596N	105.867E	33.0N	6.0	5.4		SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 20:05:33.6	66.4	66.7	1.2	80	5.8		
CLL	e P	Z 20:05:35.7	66.8	66.3	1.1	82	5.9		
BSEG	e P	Z 20:05:39.2	67.2	65.5	1.0	172	6.2		
GEC2	e P	Z 20:05:40.0	67.4	65.8	1.2	76	5.8		
TANN	e P	Z 20:05:40.4	67.5	65.6	1.1	67	5.8		
WET	e P	Z 20:05:42.4	67.7	65.4	1.4	83	5.8		
MOX	e P	Z 20:05:42.8	67.9	65.1	1.4	79	5.8		
ROTZ	e P	Z 20:05:43.5	67.9	65.2	1.1	112	6.0		
NRDL	e P	Z 20:05:42.7	67.9	64.8	1.1	159	6.1		
CLZ	e P	Z 20:05:44.5	68.1	64.7	1.0	148	6.2		
RJOB	e P	Z 20:05:46.7	68.4	64.8	2.1	241	6.1		
GRA1	e P	Z 20:05:47.3	68.5	64.5	1.1	171	6.2		
	e L	Z 20:37:17.2			18.5	2168		5.4	

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UBBA	e P	Z	20:05:48.1	68.7	64.1	2.2	208	6.0
FUR	e P	Z	20:05:51.4	69.1	64.0	1.1	237	6.3
IBBN	e P	Z	20:05:52.0	69.3	63.1	1.1	100	5.9
TNS	e P	Z	20:05:55.4	69.9	62.9	1.1	64	5.7
BUG	e P	Z	20:05:56.1	70.0	62.5	1.1	104	5.9
STU	e P	Z	20:05:56.6	70.1	62.9	1.1	81	5.8
BFO	e P	Z	20:06:00.8	70.8	62.2	1.3	77	5.7
WLF	e P	Z	20:06:05.6	71.4	61.2	1.1	184	6.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	20:42:53.0	67.147N	16.803W	16.3	4.2			SZGRF
Iceland region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 20:47:19.3	19.6	328.5	1.8	21	4.1		
BUG	e P	Z 20:47:20.2	19.7	331.9	1.1	13	4.2		
CLZ	e P	Z 20:47:26.3	20.3	329.2	1.2	15	4.2		
TNS	e P	Z 20:47:35.1	21.1	332.6	1.0	23	4.5		
CLL	e P	Z 20:47:40.2	21.6	328.3	1.1	11	4.2		
MOX	e P	Z 20:47:41.2	21.7	330.0	1.0	8	4.2		
TANN	e P	Z 20:47:46.8	22.2	329.8	1.1	5	4.0		
BRG	e P	Z 20:47:48.0	22.3	328.4	1.0	7	4.1		
GRA1	e P	Z 20:47:51.2	22.4	331.4	1.5	22	4.5		
	e pP	Z 20:47:55.0							
ROTZ	e P	Z 20:47:53.1	22.7	330.7	1.4	8	4.0		
WET	e P	Z 20:48:00.2	23.4	331.0	3.2	60	4.6		
GEC2	e P	Z 20:48:02.4	23.9	330.9	0.8	4	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	21:21:13.4	28.329S	13.208W	33.0N	4.6			SZGRF
Southern Mid-Atlantic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:33:25.2	81.0	201.6	1.4	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/23	23:04:57.5	22.668N	122.035E	33.0N	4.7			SZGRF
Taiwan region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:17:31.5	85.3	59.9	1.6	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/24	01:43:19.7	50.520N	158.070E	84.3	6.1			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	01:54:29.5	70.9	22.9	1.6	387	6.3		
BSEG	e P	Z	01:54:37.0	72.1	20.9	1.6	226	6.0		
	e S	T	02:03:54.9							
HLG	e P	Z	01:54:38.8	72.4	19.4	1.5	293	6.2		
RUE	e P	Z	01:54:40.1	72.7	22.9	2.0	517	6.3		
NRDL	e P	Z	01:54:43.9	73.5	20.6	1.6	161	5.9		
	e pP	Z	01:55:05.8							
	e S	T	02:04:08.0							
CLL	e P	Z	01:54:47.1	73.9	22.3	1.6	260	6.1		
	e pP	Z	01:55:09.7							
	e S	T	02:04:14.7							
CLZ	e P	Z	01:54:48.7	74.0	20.7	1.7	416	6.3		
	e S	T	02:04:15.6							
BRG	e P	Z	01:54:48.4	74.1	22.8	1.7	151	5.9		
	e S	T	02:04:18.2							
IBBN	e P	Z	01:54:49.1	74.2	19.1	1.3	188	6.1		
	e S	T	02:04:17.9							
MOX	e P	Z	01:54:53.2	74.9	21.3	1.6	206	5.9		
	e S	T	02:04:25.4							
BUG	e P	Z	01:54:54.2	75.1	18.7	1.8	432	6.2		
	e S	T	02:04:27.4							
UBBA	e P	Z	01:54:54.3	75.1	20.4	1.7	283	6.0		
	e S	T	02:04:27.9							
ROTZ	e P	Z	01:54:57.5	75.6	21.6	1.7	289	6.0		
	e S	T	02:04:34.3							
GRA1	e P	Z	01:54:59.3	75.9	21.0	1.7	668	6.4		
	e pP	Z	01:55:20.6							
	e PP	Z	01:57:48.4							
	e S	T	02:04:37.1							
WET	e P	Z	01:54:59.9	76.0	22.0	1.8	443	6.2		
	e pP	Z	01:55:22.2							
	e S	T	02:04:38.7							
TNS	e P	Z	01:54:59.7	76.0	19.4	1.4	306	6.1		
	e S	T	02:04:38.1							
GEC2	e P	Z	01:55:00.0	76.1	22.4	1.9	255	5.9		
	e S	T	02:04:38.7							
WLF	e P	Z	01:55:06.1	77.0	17.9	2.2	793	6.5		
	e S	T	02:04:51.5							
STU	e P	Z	01:55:06.4	77.2	19.7	1.4	194	6.0		
	e S	T	02:04:52.0							
FUR	e P	Z	01:55:07.1	77.3	20.9	1.8	572	6.4		
	e S	T	02:04:53.3							
BFO	e P	Z	01:55:09.7	77.8	19.1	1.3	160	6.0		

e pP Z 01:55:31.4  
e S T 02:04:59.2

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/24 02:27:52.7 39.845N 142.626E 104.0 4.9  
Near east coast of eastern Honshu, Japan SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 02:39:38.5	77.7	35.5	1.3	21	5.1		
	e PcP	Z 02:39:49.3							
BRG	e P	Z 02:39:44.3	78.8	37.7	1.8	20	4.9		
CLL	e P	Z 02:39:44.0	78.8	37.1	1.4	13	4.9		
	e pP	Z 02:40:09.6							
CLZ	e P	Z 02:39:47.4	79.3	35.3	1.3	14	4.9		
	e PcP	Z 02:39:57.7							
	e pP	Z 02:40:14.5							
MOX	e P	Z 02:39:50.0	79.9	36.1	2.2	47	5.2		
	e PcP	Z 02:39:59.9							
	e pP	Z 02:40:16.1							
UBBA	e P	Z 02:39:51.9	80.3	35.0					
	e PcP	Z 02:40:00.9							
	e pP	Z 02:40:19.1							
ROTZ	e P	Z 02:39:53.3	80.4	36.4	1.8	25	5.0		
	e PcP	Z 02:40:03.1							
	e pP	Z 02:40:19.5							
GEC2	e P	Z 02:39:53.2	80.5	37.3	1.8	13	4.8		
	e pP	Z 02:40:19.8							
WET	e P	Z 02:39:54.2	80.6	36.8	1.9	19	4.9		
	e pP	Z 02:40:21.2							
BUG	e P	Z 02:39:54.9	80.8	33.1	0.7	6	4.7		
	e pP	Z 02:40:22.7							
GRA1	e P	Z 02:39:54.8	80.8	35.7	1.2	24	5.1		
	e pP	Z 02:40:22.1							
	e sP	Z 02:40:36.2							
FUR	e P	Z 02:40:00.9	82.0	35.6	1.5	33	5.0		
STU	e P	Z 02:40:03.0	82.3	34.2	0.9	8	4.7		
WLF	e P	Z 02:40:06.7	82.6	32.2	1.5	21	4.9		
BFO	e P	Z 02:40:07.0	83.0	33.6	1.5	21	4.9		
	e PcP	Z 02:40:12.8							
	e pP	Z 02:40:33.9							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/24

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BFO e Pn Z 04:14:23.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/24 05:30:10.1 32.113N 105.879E 33.0N 4.8  
 Sichuan, China SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 05:41:11.7 68.8 64.9 0.8 5 4.8

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/24 07:09:29.7 32.150N 105.740E 33.0N 5.9 5.6  
 Sichuan, China SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 07:20:11.9	65.6	68.2	0.9	121	6.1		
RUE	e P	Z 07:20:15.5	66.1	67.7	1.1	150	6.1		
BRG	e P	Z 07:20:18.6	66.7	67.2	0.9	57	5.8		
	e S	T 07:29:08.4							
CLL	e P	Z 07:20:20.7	67.0	66.7	1.0	64	5.8		
	e S	T 07:29:13.5							
BSEG	e P	Z 07:20:24.1	67.5	65.8	0.9	152	6.2		
	e S	T 07:29:18.3							
GEC2	e P	Z 07:20:24.9	67.6	66.2	2.9	722	6.4		
	e S	T 07:29:20.9							
TANN	e P	Z 07:20:25.1	67.7	66.0	0.9	52	5.7		
	e S	T 07:29:22.6							
WERD	e P	Z 07:20:25.5	67.8	65.9	1.0	49	5.7		
GUNZ	e P	Z 07:20:26.0	67.8	65.9	0.9	75	5.9		
WET	e P	Z 07:20:27.9	68.0	65.8	1.1	44	5.6		
MOX	e P	Z 07:20:27.5	68.1	65.5	1.0	35	5.5		
	e S	T 07:29:26.4							
ROTZ	e P	Z 07:20:28.2	68.1	65.6	1.0	89	6.0		
	e S	T 07:29:27.7							
NRDL	e P	Z 07:20:27.7	68.2	65.2	1.0	103	6.0		
	e S	T 07:29:27.5							
CLZ	e P	Z 07:20:29.2	68.3	65.1	0.9	144	6.2		
RJOB	e P	Z 07:20:31.4	68.6	65.2	1.1	33	5.5		
	e S	T 07:29:34.7							
HLG	e P	Z 07:20:32.3	68.7	64.2	0.9	194	6.3		
GRA1	e P	Z 07:20:32.0	68.7	64.9	0.9	139	6.2		
	e S	T 07:29:32.5							
	e L	Z 07:52:03.1			18.6	3603		5.6	
UBBA	e P	Z 07:20:32.6	69.0	64.5	1.1	33	5.5		
	e S	T 07:29:37.5							
FUR	e P	Z 07:20:36.3	69.4	64.4	0.9	183	6.3		

	e S	T	07:29:43.6						
IBBN	e P	Z	07:20:37.3	69.6	63.5	1.1	93	5.9	
TNS	e P	Z	07:20:40.7	70.1	63.3	0.9	57	5.8	
	e S	T	07:29:53.2						
BUG	e P	Z	07:20:41.3	70.2	62.9	1.0	85	5.9	
	e S	T	07:29:53.4						
STU	e P	Z	07:20:41.5	70.3	63.3	0.9	77	5.8	
BFO	e P	Z	07:20:45.8	71.0	62.6	1.0	47	5.6	
	e S	T	07:30:04.1						
WLF	e P	Z	07:20:50.3	71.7	61.6	0.9	166	6.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/24	12:54:14.4	25.674N	123.414E	33.0N	4.8			SZGRF

Northeast of Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 13:06:30.7	81.9	58.6	0.7	7	4.9		
WERD	e P	Z 13:06:34.8	82.7	58.0	0.7	2	4.6		
GUNZ	e P	Z 13:06:35.3	82.7	58.0	0.7	3	4.7		
PLN	e P	Z 13:06:35.3	82.7	57.9	1.2	24	5.3		
GEC2	e P	Z 13:06:35.3	82.8	58.8	0.9	6	4.8		
ROTZ	e P	Z 13:06:37.1	83.1	57.8	0.9	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/24	14:35: 4.2	22.357S	179.576W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 14:54:49.9	149.4	23.3					
BRG	e PKPbc	Z 14:54:50.3	149.6	25.3					
TANN	e PKPbc	Z 14:54:52.4	150.4	23.0					
WERD	e PKPbc	Z 14:54:52.3	150.4	22.7					
PLN	e PKPbc	Z 14:54:52.2	150.4	22.4					
GUNZ	e PKPbc	Z 14:54:52.2	150.5	22.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/25	00:29:29.7	51.784N	177.393E	33.0N	5.5	5.6		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:41:01.0	73.7	8.3	1.0	104	5.8		
NRDL	e P	Z 00:41:07.8	75.2	8.1	1.1	58	5.6		
IBBN	e P	Z 00:41:11.3	75.5	6.6	1.1	218	6.2		

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CLZ	e P	Z	00:41:13.0	75.8	8.2	1.1	97	5.9
CLL	e P	Z	00:41:13.5	76.1	9.9	1.1	28	5.3
BRG	e P	Z	00:41:15.6	76.4	10.4	1.1	32	5.3
BUG	e P	Z	00:41:15.9	76.4	6.3	1.4	90	5.7
UBBA	e P	Z	00:41:18.5	76.8	8.0	1.4	40	5.4
MOX	e P	Z	00:41:18.5	76.9	9.0	1.1	38	5.4
TANN	e P	Z	00:41:19.5	77.0	9.5	1.2	31	5.3
TNS	e P	Z	00:41:22.4	77.6	7.0	1.2	84	5.8
ROTZ	e P	Z	00:41:23.1	77.7	9.3	1.1	29	5.3
GRA1	e P	Z	00:41:24.4	77.8	8.7	1.1	86	5.8
	e PP	Z	00:44:25.9					
	e L	Z	01:24:12.0			18.0	2385	5.6
WET	e P	Z	00:41:26.3	78.2	9.7	1.2	28	5.2
WLF	e P	Z	00:41:26.6	78.3	5.5	1.2	65	5.5
GEC2	e P	Z	00:41:27.2	78.4	10.2	1.1	36	5.3
STU	e P	Z	00:41:29.7	78.9	7.4	1.1	51	5.5
FUR	e P	Z	00:41:32.3	79.4	8.7	1.0	69	5.5
BFO	e P	Z	00:41:32.6	79.5	6.9	1.1	37	5.2
RJOB	e P	Z	00:41:33.8	79.6	9.6	0.9	21	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/25	05:00:22.4	18.634S	179.787W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 05:19:52.5	143.8	16.4					
NRDL	e PKPbc	Z 05:19:56.0	145.3	16.6					
CLL	e PKPbc	Z 05:19:58.7	145.8	21.9					
IBBN	e PKPbc	Z 05:19:58.6	145.8	12.8					
CLZ	e PKPbc	Z 05:19:59.1	145.8	17.3					
BRG	e PKPbc	Z 05:19:58.5	146.0	23.7					
MOX	e PKPbc	Z 05:20:00.5	146.7	20.0					
TANN	e PKPbc	Z 05:20:01.7	146.8	21.5					
UBBA	e PKPbc	Z 05:20:01.8	146.9	17.2					
ROTZ	e PKPbc	Z 05:20:03.0	147.4	21.4					
GRA1	e PKPbc	Z 05:20:03.9	147.7	19.8					
TNS	e PKPbc	Z 05:20:04.0	147.7	14.7					
GEC2	e PKPbc	Z 05:20:04.0	147.9	24.6					
WLF	e PKPbc	Z 05:20:06.7	148.6	10.8					
STU	e PKPbc	Z 05:20:07.5	149.0	16.7					
RJOB	e PKPbc	Z 05:20:07.5	149.1	23.7					
BFO	e PKPbc	Z 05:20:08.6	149.6	15.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/25	13:40:19.4	37.210N	104.820E	33.0N	4.8			SZGRF

Western Nei Mongol, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:50:42.2	62.5	63.8	1.2	6	4.6		
CLL	e P	Z	13:50:43.7	62.9	63.4	1.0	5	4.6		
TANN	e P	Z	13:50:48.6	63.6	62.7	1.2	5	4.6		
GEC2	e P	Z	13:50:48.5	63.6	62.8	1.1	5	4.6		
NEUB	e P	Z	13:50:48.6	63.6	62.6	0.8	8	5.0		
WERD	e P	Z	13:50:49.4	63.6	62.6	1.7	9	4.7		
GUNZ	e P	Z	13:50:49.2	63.7	62.6	1.0	7	4.8		
PLN	e P	Z	13:50:49.9	63.7	62.5	1.5	57	5.6		
ROTZ	e P	Z	13:50:51.6	64.0	62.3	1.3	11	4.9		
GRFO	e P	Z	13:50:55.1	64.6	61.6	0.9	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/25	23:52:52.2	17.230N	16.770W	24.1	4.4			SZGRF

Mauritania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z	00:00:11.4	38.5	226.2	0.6	14	4.9		
TNS	e P	Z	00:00:12.2	38.7	220.6	0.7	14	4.7		
RJOB	e P	Z	00:00:15.3	38.9	228.6	0.7	12	4.6		
GRA1	e P	Z	00:00:20.0	39.5	224.8	1.0	14	4.6		
	e pP	Z	00:00:26.3							
WET	e P	Z	00:00:23.4	39.9	227.4	0.9	5	4.1		
ROTZ	e P	Z	00:00:24.5	40.0	226.0	1.8	13	4.3		
IBBN	e P	Z	00:00:26.0	40.0	218.1	0.7	10	4.5		
GEC2	e P	Z	00:00:26.1	40.1	228.7	0.8	9	4.4		
MOX	e P	Z	00:00:26.9	40.4	224.5	1.1	3	3.9		
CLZ	e P	Z	00:00:31.9	40.7	221.9	1.1	4	4.0		
CLL	e P	Z	00:00:36.2	41.5	225.8	0.6	2	4.1		
BRG	e P	Z	00:00:37.7	41.6	227.3	0.7	2	4.1		
BSEG	e P	Z	00:00:41.4	42.3	220.3	1.2	18	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	00:18:59.4	20.265S	169.792E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	00:38:31.9	145.1	37.5					
ROTZ	e PKPbc	Z	00:38:33.9	145.5	39.2					
UBBA	e PKPbc	Z	00:38:34.0	145.6	35.0					
GEC2	e PKPbc	Z	00:38:34.1	145.6	42.3					
WET	e PKPbc	Z	00:38:34.1	145.7	40.8					
BUG	e PKPbc	Z	00:38:35.1	146.0	30.2					

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GRA1	e	PKPbc	Z	00:38:35.3	146.0	37.8
TNS	e	PKPbc	Z	00:38:37.3	146.6	33.0
RJOB	e	PKPbc	Z	00:38:37.8	146.8	42.1
FUR	e	PKPbc	Z	00:38:39.4	147.2	39.3
STU	e	PKPbc	Z	00:38:40.2	147.5	35.5
WLF	e	PKPbc	Z	00:38:41.9	147.8	29.8
BFO	e	PKPbc	Z	00:38:42.0	148.2	34.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	03:21:54.4	37.648N	23.681E	33.0N	4.1			SZGRF
Southern Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 03:25:00.5	12.9	137.8					
GEC2	e P	Z 03:25:10.1	13.3	143.5					
WET	e P	Z 03:25:16.2	13.9	141.8					
BRG	e P	Z 03:25:27.3	14.9	148.7					
GRA1	e P	Z 03:25:29.6	15.0	138.7					
TANN	e P	Z 03:25:30.0	15.1	143.6					
STU	e P	Z 03:25:32.2	15.3	131.3					
BFO	e P	Z 03:25:32.7	15.4	128.1	0.6	5			
MOX	e P	Z 03:25:35.3	15.6	141.9	0.7	4			
TNS	e P	Z 03:25:46.6	16.6	133.3	0.6	18	4.3		
WLF	e P	Z 03:25:54.1	17.4	127.1	0.8	7	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	03:42:46.4	41.984N	147.450E	33.0N	4.7			SZGRF
Off southeast coast of Hokkaido, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:54:50.7	80.6	31.4	1.5	11	4.7		
	e pP	Z 03:55:05.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	04:18: 6.7	32.103N	31.310E	33.0N	4.1			SZGRF
Eastern Mediterranean Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:22:52.2	21.3	135.2	1.1	6	3.8		
WET	e P	Z 04:22:57.5	21.9	134.2	1.0	8	4.1		
ROTZ	e P	Z 04:23:05.3	22.7	134.0	1.3	12	4.3		
BRG	e P	Z 04:23:05.3	22.7	139.1	1.1	5	3.9		
TANN	e P	Z 04:23:08.3	23.0	135.6	1.2	6	4.0		

GUNZ	e P	Z	04:23:09.0	23.0	135.2	1.3	8	4.1
GRA1	e P	Z	04:23:10.0	23.1	132.1	1.5	13	4.2
WERD	e P	Z	04:23:09.2	23.1	135.3	1.0	3	3.8
PLN	e P	Z	04:23:10.3	23.2	135.1	2.0	79	4.9
MOX	e P	Z	04:23:14.6	23.6	134.4	1.1	7	4.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	04:21:31.6	32.323N	32.093E	33.0N	4.0			SZGRF

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:26:36.9	23.3	130.4	1.1	5	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	04:25: 3.3	32.561N	32.293E	33.0N	4.0			SZGRF

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:30:07.7	23.2	129.7	0.9	5	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	05:35:34.1	10.506N	91.254E	20.9	5.3	4.5		SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:47:05.7	73.9	93.1	1.3	51	5.4		
GEC2	e P	Z 05:47:06.2	73.9	92.4	1.1	28	5.2		
WET	e P	Z 05:47:09.4	74.5	91.8	1.3	28	5.1		
CLL	e P	Z 05:47:08.7	74.5	92.5	1.2	35	5.2		
RJOB	e P	Z 05:47:09.1	74.5	91.4	1.4	22	5.0		
TANN	e P	Z 05:47:11.0	74.8	91.8	1.4	35	5.2		
ROTZ	e P	Z 05:47:12.5	74.9	91.5	1.3	52	5.4		
MOX	e P	Z 05:47:14.2	75.3	91.3	1.4	41	5.3		
FUR	e P	Z 05:47:15.0	75.5	90.3	0.5	24	5.6		
GRA1	e P	Z 05:47:16.0	75.6	90.7	1.2	75	5.7		
	e pP	Z 05:47:22.0							
	e L	Z 06:25:20.6			20.3	228		4.5	
CLZ	e P	Z 05:47:18.7	76.1	90.6	1.1	38	5.4		
BSEG	e P	Z 05:47:19.0	76.2	91.1	1.2	72	5.7		
UBBA	e P	Z 05:47:19.9	76.4	90.0	1.6	17	4.9		
STU	e P	Z 05:47:23.2	76.9	88.9	1.1	29	5.3		
TNS	e P	Z 05:47:25.8	77.4	88.7	1.5	66	5.5		
BFO	e P	Z 05:47:26.1	77.5	88.2	1.2	22	5.2		

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IBBN	e P	Z	05:47:27.8	77.7	88.6	1.2	59	5.6
WLF	e P	Z	05:47:34.6	78.9	86.8	1.5	50	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	15:06:52.9	11.184N	61.240W	33.0N	4.6			SZGRF

Windward Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:18:02.8	70.2	263.9	1.4	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	16:49:39.0	8.580N	93.344E	33.0N	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:01:26.9	76.7	92.8	0.8	6	4.7		
GEC2	e P	Z 17:01:27.3	76.7	92.1	1.0	11	4.9		
WET	e P	Z 17:01:30.7	77.3	91.5	1.3	10	4.8		
RJOB	e P	Z 17:01:30.3	77.3	91.2	1.1	7	4.7		
TANN	e P	Z 17:01:32.1	77.6	91.5	2.1	17	4.8		
ROTZ	e P	Z 17:01:33.3	77.7	91.2	1.1	7	4.7		
GRA1	e P	Z 17:01:36.7	78.4	90.4	0.7	12	5.1		
CLZ	e P	Z 17:01:39.4	78.9	90.2	0.8	7	4.8		
BSEG	e P	Z 17:01:39.9	79.0	90.5	0.9	11	4.9		
NRDL	e P	Z 17:01:39.5	79.1	90.1	1.7	17	4.8		
BFO	e P	Z 17:01:47.0	80.3	88.0	0.9	3	4.2		
IBBN	e P	Z 17:01:48.6	80.5	88.2	1.3	15	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/26	18:51:57.8	24.734N	89.620E	33.0N	5.2	4.2		SZGRF

Bangladesh

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 19:02:15.7	62.2	84.2	0.7	12	5.2		
GEC2	e P	Z 19:02:18.5	62.6	82.9	0.8	17	5.2		
CLL	e P	Z 19:02:18.8	62.7	83.7	0.8	4	4.7		
WET	e P	Z 19:02:21.8	63.1	82.5	1.1	12	5.0		
TANN	e P	Z 19:02:22.3	63.2	82.9	0.8	8	4.9		
RJOB	e P	Z 19:02:22.9	63.3	81.8	1.1	6	4.7		
ROTZ	e P	Z 19:02:24.6	63.4	82.3	0.9	17	5.3		
MOX	e P	Z 19:02:25.5	63.7	82.3	0.8	8	5.0		
BSEG	e P	Z 19:02:28.2	64.1	83.0	0.9	26	5.5		
GRA1	e P	Z 19:02:28.8	64.1	81.6	1.5	30	5.3		

	e L	Z	19:33:33.2			20.0	154	4.2
FUR	e P	Z	19:02:29.6	64.3	80.9	1.2	20	5.2
CLZ	e P	Z	19:02:29.7	64.3	82.0	0.8	20	5.4
NRDL	e P	Z	19:02:29.4	64.4	82.1	1.1	36	5.5
STU	e P	Z	19:02:37.6	65.5	79.7	0.9	14	5.2
TNS	e P	Z	19:02:39.1	65.7	79.9	0.8	23	5.4
IBBN	e P	Z	19:02:39.4	65.8	80.3	1.0	24	5.4
BFO	e P	Z	19:02:42.3	66.2	78.9	1.0	3	4.5
WLF	e P	Z	19:02:49.6	67.3	78.0	1.4	33	5.4

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/26 21:16: 0.2 19.620S 177.460W 33.0N 4.6  
 Fiji Islands region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:35:33.4	145.2	12.9					
NRDL	e PKPbc	Z	21:35:37.0	146.6	13.0					
IBBN	e PKPbc	Z	21:35:39.6	147.1	9.1					
CLZ	e PKPbc	Z	21:35:40.1	147.2	13.7					
CLL	e PKPbc	Z	21:35:39.9	147.3	18.4					
BRG	e PKPbc	Z	21:35:40.6	147.5	20.3					
MOX	e PKPbc	Z	21:35:42.5	148.2	16.4					
TANN	e PKPbc	Z	21:35:42.8	148.2	17.9					
	e PKPab	Z	21:35:45.4							
UBBA	e PKPbc	Z	21:35:42.7	148.2	13.4					
ROTZ	e PKPbc	Z	21:35:44.7	148.9	17.8					
TNS	e PKPbc	Z	21:35:45.0	149.0	10.9					
	e PKPab	Z	21:35:49.4							
GRA1	e PKPbc	Z	21:35:44.7	149.1	16.1					
	e PKPab	Z	21:35:49.7							
	e L	Z	22:38:03.9			19.5	97	4.6		
WET	e PKPbc	Z	21:35:45.8	149.3	19.4					
	e PKPab	Z	21:35:50.8							
GEC2	e PKPbc	Z	21:35:45.8	149.4	21.0					
	e PKPab	Z	21:35:51.4							
WLF	e PKPbc	Z	21:35:47.7	149.8	6.8					
STU	e PKPbc	Z	21:35:48.5	150.4	12.7					
FUR	e PKPbc	Z	21:35:48.9	150.6	16.9					
RJOB	e PKPbc	Z	21:35:48.8	150.7	20.0					
	e PKPab	Z	21:35:56.0							
BFO	e PKPbc	Z	21:35:49.8	150.9	11.3					
	e PKPab	Z	21:35:56.8							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/26 22:17:12.2 40.780N 42.050E 33.0N 4.4  
 SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:21:59.1	21.5	101.3	1.1	5	3.9		
RJOB	e P	Z	22:22:02.9	21.9	97.6	1.3	14	4.2		
WET	e P	Z	22:22:04.4	22.1	101.2	1.3	9	4.0		
CLL	e P	Z	22:22:09.3	22.5	106.4	1.0	7	4.1		
ROTZ	e P	Z	22:22:10.1	22.7	101.9	1.2	13	4.3		
FUR	e P	Z	22:22:13.4	23.0	97.2	1.2	39	4.8		
GRA1	e P	Z	22:22:17.3	23.3	100.7	1.2	96	5.2		
CLZ	e P	Z	22:22:25.8	24.3	104.5	1.5	19	4.4		
NRDL	e P	Z	22:22:28.2	24.6	105.6	1.3	13	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/27	00:02:49.7	19.600N	120.830E	33.0N	5.1	4.9		SZGRF

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:15:22.9	85.0	64.8	1.2	37	5.5		
CLL	e P	Z	00:15:24.3	85.3	64.1	1.1	35	5.4		
BSEG	e P	Z	00:15:26.4	85.6	62.2	1.2	33	5.3		
GEC2	e P	Z	00:15:27.8	86.0	64.5	1.2	19	5.1		
TANN	e P	Z	00:15:28.0	86.0	63.7	1.3	18	5.0		
WET	e P	Z	00:15:29.9	86.3	63.9	1.4	17	5.0		
NRDL	e P	Z	00:15:29.2	86.4	62.0	1.4	22	5.1		
MOX	e P	Z	00:15:29.9	86.4	63.0	1.4	21	5.1		
ROTZ	e P	Z	00:15:30.6	86.5	63.4	1.2	19	5.1		
CLZ	e P	Z	00:15:31.1	86.5	62.2	1.6	39	5.3		
RJOB	e P	Z	00:15:32.7	87.0	63.8	1.1	11	4.9		
GRA1	e P	Z	00:15:33.6	87.1	62.7	1.9	38	5.2		
	e L	Z	00:57:23.7			18.4	450		4.9	
UBBA	e P	Z	00:15:33.9	87.2	61.8	1.9	21	5.0		
IBBN	e P	Z	00:15:36.4	87.7	60.2	1.0	15	5.2		
FUR	e P	Z	00:15:36.5	87.7	62.7	1.3	25	5.4		
TNS	e P	Z	00:15:39.4	88.4	60.6	1.3	13	5.0		
STU	e P	Z	00:15:42.5	88.7	61.2	1.2	7	4.8		
BFO	e P	Z	00:15:42.5	89.4	60.5	1.2	6	4.7		
WLF	e P	Z	00:15:47.1	89.9	58.9	1.2	23	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/27	14:41:20.2	34.846N	73.119E	33.0N	5.0			SZGRF

Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:49:30.7	44.9	87.2	0.9	21	5.0		

GEC2	e P	Z	14:49:33.3	45.2	85.0	0.9	5	4.4
CLL	e P	Z	14:49:34.6	45.4	86.9	0.9	13	4.9
WET	e P	Z	14:49:37.3	45.7	84.7	1.8	14	4.7
TANN	e P	Z	14:49:38.6	45.8	85.7	1.1	9	4.7
RJOB	e P	Z	14:49:38.8	45.9	83.3	0.8	11	4.9
ROTZ	e P	Z	14:49:40.8	46.1	84.9	1.1	13	4.9
MOX	e P	Z	14:49:42.5	46.4	85.3	1.1	11	4.8
GRA1	e P	Z	14:49:46.2	46.7	84.1	1.2	24	5.2
FUR	e P	Z	14:49:46.8	46.8	82.7	1.3	44	5.4
BSEG	e P	Z	14:49:47.0	46.9	87.4	0.9	19	5.2
CLZ	e P	Z	14:49:47.9	47.0	85.5	1.4	26	5.2
NRDL	e P	Z	14:49:47.7	47.2	85.9	1.0	16	5.1
UBBA	e P	Z	14:49:50.4	47.4	84.3	0.7	5	4.8
STU	e P	Z	14:49:56.5	48.1	81.9	0.9	14	5.1
TNS	e P	Z	14:49:58.8	48.4	82.6	0.7	11	5.0
IBBN	e P	Z	14:49:59.8	48.6	84.0	1.0	24	5.2
BFO	e P	Z	14:50:00.9	48.8	80.9	1.2	8	4.7
WLF	e P	Z	14:50:11.0	50.0	80.6	0.9	24	5.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/27 21:15:54.9 0.830N 16.930W 33.0N 6.0 5.3  
 North of Ascension Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 21:25:02.4	52.3	212.7	1.3	273	6.0		
	e PP	Z 21:27:00.6							
	e S	R 21:32:34.2							
WLF	e P	Z 21:25:05.4	52.7	209.5	1.7	288	5.9		
	e S	R 21:32:40.3							
STU	e P	Z 21:25:07.0	52.9	213.5	1.2	167	5.9		
	e S	R 21:32:43.3							
FUR	e P	Z 21:25:09.7	53.2	216.2	1.3	582	6.4		
	e PP	Z 21:27:08.3							
	e S	R 21:32:45.7							
RJOB	e P	Z 21:25:11.1	53.5	218.1	1.0	168	5.9		
	e S	R 21:32:50.1							
TNS	e P	Z 21:25:14.4	53.9	212.0	1.1	364	6.3		
	e PP	Z 21:27:15.0							
	e S	R 21:32:57.5							
GRA1	e P	Z 21:25:18.2	54.5	215.4	1.4	268	6.1		
	e S	R 21:33:04.1							
	e L	Z 21:49:40.2			19.0	2698		5.3	
BUG	e P	Z 21:25:19.0	54.6	210.2	1.3	200	6.0		
	e S	R 21:33:06.7							
WET	e P	Z 21:25:19.9	54.7	217.5	1.2	322	6.2		
	e PP	Z 21:27:22.8							
	e S	R 21:33:06.0							

GEC2	e P	Z	21:25:20.7	54.8	218.6	1.8	488	6.2
	e PP	Z	21:27:23.3					
	e S	R	21:33:06.8					
ROTZ	e P	Z	21:25:21.5	54.9	216.5	1.6	307	6.1
	e PP	Z	21:27:24.4					
	e S	R	21:33:10.3					
MOX	e P	Z	21:25:25.0	55.4	215.5	1.4	237	6.0
	e S	R	21:33:17.7					
GUNZ	e P	Z	21:25:25.2	55.4	216.4	1.3	172	5.9
	e PP	Z	21:27:29.7					
IBBN	e P	Z	21:25:25.6	55.5	210.5	1.4	262	6.1
	e PP	Z	21:27:30.1					
	e S	R	21:33:20.1					
WERD	e P	Z	21:25:25.6	55.5	216.4	1.5	234	6.0
TANN	e P	Z	21:25:25.9	55.5	216.5	1.2	214	6.0
	e PP	Z	21:27:30.4					
	e S	R	21:33:19.5					
CLZ	e P	Z	21:25:28.9	55.9	213.6	1.6	124	5.7
	e PP	Z	21:27:33.4					
	e S	R	21:33:26.2					
CLL	e P	Z	21:25:32.3	56.4	216.8	1.4	203	5.9
	e PP	Z	21:27:37.6					
	e S	R	21:33:30.3					
BRG	e P	Z	21:25:32.3	56.4	218.0	1.3	148	5.9
	e PP	Z	21:27:38.2					
	e S	R	21:33:30.3					
HLG	e S	R	21:33:41.5	57.1	210.0			
RUE	e P	Z	21:25:41.2	57.6	217.2	1.2	355	6.3
	e PP	Z	21:27:48.2					
	e S	R	21:33:46.5					
BSEG	e P	Z	21:25:40.7	57.7	212.8	1.1	235	6.1
	e PP	Z	21:27:48.9					
	e S	R	21:33:48.1					
RGN	e P	Z	21:25:51.5	59.2	215.9	1.3	271	6.1
	e PP	Z	21:28:03.1					
	e S	R	21:34:09.4					

Date 2008/07/27  
 Origin Time 22:41:54.9  
 Lat 22.479N  
 Long 94.660E  
 Depth 116.2  
 mb 5.6  
 Ms  
 ML  
 Source SZGRF  
 Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:52:44.2	67.0	82.2	0.6	38	5.8		
GEC2	e P	Z	22:52:47.4	67.5	81.1	0.6	41	5.8		
CLL	e P	Z	22:52:47.1	67.5	81.6	0.8	19	5.4		
WET	e P	Z	22:52:50.5	67.9	80.7	0.7	23	5.5		
TANN	e P	Z	22:52:50.7	68.0	80.9	0.7	22	5.5		

	e pP	Z	22:53:19.4							
RJOB	e P	Z	22:52:52.0	68.2	80.1	0.9	20	5.3		
ROTZ	e P	Z	22:52:53.0	68.3	80.4	0.6	75	6.1		
MOX	e P	Z	22:52:53.6	68.5	80.4	1.2	36	5.5		
	e pP	Z	22:53:22.7							
BSEG	e P	Z	22:52:55.3	68.7	80.6	0.9	74	5.9		
	e pP	Z	22:53:24.0							
GRA1	e P	Z	22:52:56.9	68.9	79.7	1.0	44	5.6		
	e pP	Z	22:55:24.9							
CLZ	e P	Z	22:52:57.3	69.1	79.9	0.7	50	5.8		
	e pP	Z	22:53:26.1							
FUR	e P	Z	22:52:58.1	69.2	79.2	0.6	28	5.6		
STU	e P	Z	22:53:05.6	70.4	77.9	0.6	59	5.9		
	e pP	Z	22:53:34.3							
IBBN	e P	Z	22:53:06.3	70.5	78.1	1.1	36	5.4		
TNS	e P	Z	22:53:06.5	70.6	77.9	0.9	60	5.7		
	e pP	Z	22:53:35.3							
BFO	e P	Z	22:53:09.1	71.0	77.2	0.7	14	5.2		
WLF	e P	Z	22:53:16.7	72.1	76.1	1.0	103	5.9		
	e pP	Z	22:53:45.3							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/27

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:01:39.5							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/07/28 07:10: 4.5 0.479S 98.612E 33.0G 5.3 4.5 ML SZGRF  
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 07:22:47.9	87.2	94.4	1.4	98	5.8		
WET	e P	Z 07:22:49.5	87.6	93.5	1.3	24	5.4		
TANN	e P	Z 07:22:51.2	87.9	93.3	1.4	16	5.2		
GUNZ	e P	Z 07:22:51.7	88.0	93.2	1.3	20	5.3		
WERD	e P	Z 07:22:51.5	88.0	93.2	1.2	16	5.2		
MOX	e P	Z 07:22:53.9	88.5	92.6	1.5	26	5.3		
CLZ	e P	Z 07:22:57.5	89.3	91.7	1.3	25	5.3		
BSEG	e P	Z 07:22:58.1	89.4	91.7	1.6	28	5.2		
WLF	e P	Z 07:23:10.3	92.0	88.4	1.4	16	5.1		
	e L	Z 08:09:05.1			21.8	185		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/28	13:06:36.1	51.248N	179.902E	33.0G	5.0			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 13:18:17.0	74.5	6.7	1.0	24	5.2		
IBBN	e P	Z 13:18:27.0	76.2	5.1	1.0	42	5.5		
CLZ	e P	Z 13:18:29.1	76.5	6.7	1.0	23	5.3		
MOX	e P	Z 13:18:34.5	77.6	7.5	1.4	22	5.1		
WERD	e P	Z 13:18:35.4	77.8	7.9	1.2	10	4.8		
TANN	e P	Z 13:18:35.7	77.8	8.0	1.5	14	4.8		
GUNZ	e P	Z 13:18:35.9	77.8	7.9	1.0	10	4.9		
WLF	e P	Z 13:18:42.2	78.9	4.0	1.1	20	5.1		
WET	e P	Z 13:18:42.4	79.0	8.2	1.4	12	4.7		
STU	e P	Z 13:18:46.1	79.7	5.9	1.0	21	5.0		
BFO	e P	Z 13:18:48.3	80.2	5.3	1.3	14	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/28	20:34:40.6	33.810N	84.060E	33.0G	4.8	3.8		SZGRF

Xizang

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 20:43:55.7	52.9	80.1	1.4	8	4.4		
GEC2	e P	Z 20:43:55.6	52.9	78.7	0.9	8	4.7		
WET	e P	Z 20:43:59.2	53.4	78.4	1.0	7	4.7		
TANN	e P	Z 20:43:59.7	53.4	79.1	1.0	4	4.4		
WERD	e P	Z 20:43:59.9	53.5	79.0	0.8	5	4.6		
GUNZ	e P	Z 20:44:00.2	53.5	78.9	0.9	6	4.7		
MOX	e P	Z 20:44:02.5	53.9	78.6	1.0	6	4.5		
BSEG	e P	Z 20:44:04.6	54.1	80.1	0.8	12	5.0		
GRA1	e P	Z 20:44:06.0	54.3	77.7	1.6	38	5.2		
	e L	Z 21:10:20.8			19.7	84		3.8	
CLZ	e P	Z 20:44:06.8	54.4	78.6	1.3	14	4.8		
NRDL	e P	Z 20:44:06.2	54.5	78.9	1.3	20	5.0		
FUR	e P	Z 20:44:08.2	54.6	76.7	0.9	14	5.0		
STU	e P	Z 20:44:17.1	55.8	75.8	0.7	12	5.1		
TNS	e P	Z 20:44:17.9	56.0	76.2	1.1	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/28	21:37:32.8	10.673S	163.151E	10.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z 21:56:44.5	131.4	41.9					
BSEG	e PKPdf	Z 21:56:45.1	131.6	36.9					

CLL	e	PKPdf	Z	21:56:47.0	132.6	41.7
NRDL	e	PKPdf	Z	21:56:46.5	132.9	37.4
CLZ	e	PKPdf	Z	21:56:48.5	133.3	38.1
TANN	e	PKPdf	Z	21:56:49.0	133.5	41.6
WERD	e	PKPdf	Z	21:56:49.0	133.6	41.4
GUNZ	e	PKPdf	Z	21:56:49.3	133.6	41.4
MOX	e	PKPdf	Z	21:56:49.1	133.7	40.4
IBBN	e	PKPdf	Z	21:56:49.3	133.9	34.6
GEC2	e	PKPdf	Z	21:56:49.9	134.1	44.1
WET	e	PKPdf	Z	21:56:50.7	134.3	42.9
GRA1	e	PKPdf	Z	21:56:50.8	134.6	40.5
	e			21:56:57.6		
TNS	e	PKPdf	Z	21:56:52.4	135.3	36.7
STU	e	PKPdf	Z	21:56:53.7	136.2	38.5
BFO	e	PKPdf	Z	21:56:55.9	136.9	37.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/28	21:40:55.7	10.530S	161.140E	33.0G				SZGRF
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e	PP	Z 22:02:06.6	129.2	42.5					
RUE	e	PP	Z 22:02:14.8	130.5	44.2					
BSEG	e	PP	Z 22:02:17.1	130.8	39.3					
HLG	e	PP	Z 22:02:20.8	131.5	36.2					
CLL	e	PKPdf	Z 22:00:05.2	131.7	44.0					
	e	PP	Z 22:02:22.8							
NRDL	e	PKPdf	Z 22:00:05.2	132.0	39.8					
	e	PP	Z 22:02:23.3							
NEUB	e	PKPdf	Z 22:00:06.8	132.3	42.6					
	e	PP	Z 22:02:26.5							
CLZ	e	PKPdf	Z 22:00:08.3	132.4	40.5					
	e	PP	Z 22:02:27.5							
TANN	e	PP	Z 22:02:29.0	132.5	43.9					
WERD	e	PP	Z 22:02:33.3	132.6	43.7					
GUNZ	e	PP	Z 22:02:33.7	132.6	43.8					
MOX	e	PKPdf	Z 22:00:09.3	132.7	42.8					
	e	PP	Z 22:02:30.0							
IBBN	e	PP	Z 22:02:30.7	133.0	37.0					
GEC2	e	PKPdf	Z 22:00:08.3	133.1	46.4					
	e	PP	Z 22:02:33.4							
WET	e	PKPdf	Z 22:00:09.0	133.3	45.2					
	e	PP	Z 22:02:34.4							
UBBA	e	PKPdf	Z 22:00:09.0	133.3	40.7					
	e	PP	Z 22:02:33.1							
GRA1	e	PKPdf	Z 22:00:09.3	133.6	42.9					
	e	PP	Z 22:02:35.9							

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TNS	e PKPdf	Z	22:00:11.7	134.4	39.1
	e PP	Z	22:02:40.1		
FUR	e PP	Z	22:02:42.6	134.7	44.0
STU	e PP	Z	22:02:51.9	135.2	41.0
BFO	e PKPdf	Z	22:00:14.2	135.9	40.2
	e PP	Z	22:02:49.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/28	23:52:24.5	33.720N	103.200E	33.0G	4.7			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:02:56.9	64.1	67.7	0.8	4	4.6		
CLL	e P	Z 00:02:59.2	64.4	67.2	1.0	3	4.5		
BSEG	e P	Z 00:03:03.4	64.9	66.5	0.9	7	4.9		
GEC2	e P	Z 00:03:02.9	65.0	66.6	1.0	4	4.6		
TANN	e P	Z 00:03:03.7	65.1	66.5	1.0	3	4.5		
WERD	e P	Z 00:03:04.1	65.2	66.4	0.7	2	4.4		
WET	e P	Z 00:03:05.5	65.4	66.2	1.2	6	4.7		
MOX	e P	Z 00:03:05.9	65.5	66.0	1.2	4	4.6		
NRDL	e P	Z 00:03:06.7	65.6	65.8	0.9	7	4.9		
CLZ	e P	Z 00:03:08.2	65.7	65.7	1.0	10	5.0		
FUR	e P	Z 00:03:14.2	66.7	64.8	0.9	15	5.3		
STU	e P	Z 00:03:20.3	67.7	63.7	0.9	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/29	07:36: 6.3	40.890N	140.490E	33.0G	4.7			SZGRF

Eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:47:57.8	77.1	38.5	0.8	4	4.6		
CLL	e P	Z 07:47:58.0	77.1	38.0	1.3	9	4.8		
WERD	e P	Z 07:48:03.5	78.0	37.4	0.8	3	4.5		
MOX	e P	Z 07:48:03.2	78.2	37.0					
GEC2	e P	Z 07:48:07.1	78.8	38.1	1.0	3	4.2		
WET	e P	Z 07:48:07.8	78.9	37.6	1.0	6	4.5		
GRA1	e P	Z 07:48:09.0	79.1	36.6	1.0	16	5.0		
TNS	e P	Z 07:48:12.4	79.7	34.8	0.6	8	4.8		
BFO	e P	Z 07:48:20.6	81.3	34.5	1.2	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:49:21.5							
CLL	e P	Z 13:49:24.6							
GEC2	e P	Z 13:49:27.8							
GUNZ	e P	Z 13:49:30.9							
NRDL	e P	Z 13:49:35.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/29	16:19:42.5	43.554N	148.797E	33.0G	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 16:31:32.9	76.3	29.6	0.8	10	5.0		
RUE	e P	Z 16:31:34.6	76.5	31.8	0.7	13	5.2		
CLL	e P	Z 16:31:40.3	77.7	31.1	0.5	11	5.2		
BRG	e P	Z 16:31:41.2	77.8	31.7	1.0	4	4.5		
CLZ	e P	Z 16:31:43.0	78.1	29.4	1.4	20	5.1		
IBBN	e P	Z 16:31:44.8	78.4	27.7	0.7	14	5.1		
WERD	e P	Z 16:31:46.0	78.7	30.6	0.7	2	4.4		
MOX	e P	Z 16:31:46.3	78.7	30.2	1.1	7	4.6		
GUNZ	e P	Z 16:31:46.4	78.7	30.6	0.7	4	4.5		
GEC2	e P	Z 16:31:51.0	79.6	31.3	0.6	4	4.5		
WET	e P	Z 16:31:51.8	79.6	30.8	1.2	10	4.7		
GRA1	e P	Z 16:31:51.9	79.7	29.8	1.1	24	5.1		
TNS	e P	Z 16:31:54.2	80.1	28.0	1.4	22	4.9		
STU	e P	Z 16:31:59.7	81.1	28.4	0.9	12	4.9		
BFO	e P	Z 16:32:02.6	81.8	27.8	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/07/29	18:42:16.0	34.011N	118.749W	15.6	5.3	5.6		SZGRF

Southern California, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:54:33.8	81.7	319.4	1.2	32	5.4		
	e S	R 19:04:47.4							
IBBN	e S	R 19:04:49.0	81.9	317.7					
BUG	e S	R 19:04:54.3	82.3	317.4					
NRDL	e P	Z 18:54:38.5	82.7	319.4	1.4	32	5.4		
	e S	R 19:04:59.0							
CLZ	e P	Z 18:54:42.6	83.3	319.6	1.4	63	5.7		
	e S	R 19:05:05.9							
TNS	e P	Z 18:54:44.4	83.7	318.4	2.1	145	5.8		
	e S	R 19:05:10.7							
UBBA	e S	R 19:05:11.5	83.9	319.4					
RUE	e P	Z 18:54:46.4	84.1	322.1	1.2	48	5.5		

	e S	R	19:05:12.5								
MOX	e P	Z	18:54:49.3	84.7	320.6	1.4		38	5.3		
	e S	R	19:05:18.8								
CLL	e P	Z	18:54:49.1	84.7	321.6	1.2		30	5.3		
	e S	R	19:05:18.2								
BFO	e P	Z	18:54:50.6	85.1	318.4	1.4		29	5.2		
	e PP	Z	18:58:07.7								
	e S	R	19:05:21.7								
STU	e P	Z	18:54:51.3	85.1	319.0	0.8		16	5.2		
	e S	R	19:05:23.0								
WERD	e P	Z	18:54:51.0	85.1	321.1	1.4		22	5.1		
GUNZ	e P	Z	18:54:51.8	85.2	321.2	1.6		47	5.4		
TANN	e P	Z	18:54:51.8	85.2	321.3	1.4		24	5.1		
	e S	R	19:05:23.8								
GRA1	e P	Z	18:54:52.5	85.3	320.4	1.1		41	5.5		
	e pP	Z	18:54:57.1								
	e S	R	19:05:25.2								
	e L	Z	19:31:34.6				20.1	2528		5.6	
BRG	e P	Z	18:54:52.9	85.5	322.3	1.2		42	5.4		
	e S	R	19:05:24.8								
WET	e P	Z	18:54:57.6	86.4	321.6	1.2		9	4.9		
	e S	R	19:05:36.0								
FUR	e P	Z	18:54:58.4	86.5	320.5	0.7		16	5.5		
	e S	R	19:05:37.1								
GEC2	e P	Z	18:55:00.2	87.0	322.2	1.5		9	4.9		
	e S	R	19:05:40.8								

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/29 18:54:35.4 2.782S 152.582E 10.0G NEIC  
 New Ireland, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	19:13:27.0	120.3	45.1					
BRG	e PKPdf	Z	19:13:27.8	120.7	50.1					
CLL	e PKPdf	Z	19:13:27.9	120.9	49.0					
NRDL	e PKPdf	Z	19:13:28.2	121.4	45.5					
TANN	e PKPdf	Z	19:13:29.6	121.7	48.8					
CLZ	e PKPdf	Z	19:13:30.1	121.7	46.0					
WERD	e PKPdf	Z	19:13:29.8	121.8	48.7					
GUNZ	e PKPdf	Z	19:13:30.1	121.8	48.7					
MOX	e PKPdf	Z	19:13:29.9	122.0	47.9					
GEC2	e PKPdf	Z	19:13:30.5	122.1	50.9					
WET	e PKPdf	Z	19:13:31.1	122.3	49.9					
GRA1	e PKPdf	Z	19:13:31.9	122.8	47.9					
TNS	e PKPdf	Z	19:13:33.7	123.7	44.7					
FUR	e PKPdf	Z	19:13:34.0	123.8	48.7					
STU	e PKPdf	Z	19:13:35.0	124.4	46.2					

BFO e PKPdf Z 19:13:35.7 125.1 45.5

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/29 20:56:22.6 54.630S 118.776W 10.0G 5.4  
 Southern East Pacific Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z	21:16:03.4	147.3	238.6					
STU	e PKP	Z	21:16:08.1	148.0	239.4					
IBBN	e PKP	Z	21:16:08.0	148.9	244.1					
FUR	e PKP	Z	21:16:08.1	148.9	239.0					
GRA1	e L	Z	22:22:28.4	149.6	241.2	20.6	678		5.4	
CLZ	e PKP	Z	21:16:11.4	150.1	244.3					
NRDL	e PKP	Z	21:16:10.6	150.2	245.2					
MOX	e PKP	Z	21:16:11.4	150.3	242.8					
WET	e PKP	Z	21:16:11.4	150.3	240.7					
GUNZ	e PKP	Z	21:16:12.3	150.5	242.5					
WERD	e PKP	Z	21:16:12.3	150.6	242.6					
GEC2	e PKP	Z	21:16:11.9	150.6	240.4					
TANN	e PKP	Z	21:16:12.5	150.6	242.6					
BSEG	e PKP	Z	21:16:13.0	150.9	247.6					
CLL	e PKP	Z	21:16:14.0	151.3	244.2					
BRG	e PKP	Z	21:16:14.9	151.7	243.7					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/30 05:02:59.4 38.179N 20.251E 10.0G 4.0  
 Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	05:05:44.0	11.7	153.7					
FUR	e Pn	Z	05:05:48.9	11.9	143.6					
	e S	E	05:07:54.5							
WET	e Pn	Z	05:05:50.4	12.2	151.4					
GRA1	e Pn	Z	05:06:04.9	13.2	147.3					
	e S	N	05:08:21.8							
	e L	Z	05:11:08.5			20.3	1466		4.0	
BFO	e Pn	Z	05:06:03.2	13.3	135.2					
TANN	e Pn	Z	05:06:09.1	13.4	152.7					
BRG	e Pn	Z	05:06:08.2	13.5	158.2					
WERD	e Pn	Z	05:06:09.0	13.5	152.3					
MOX	e Pn	Z	05:06:14.2	13.9	150.5					
CLL	e Pn	Z	05:06:18.9	14.1	155.9					
TNS	e Pn	Z	05:06:25.9	14.7	140.6					
CLZ	e Pn	Z	05:06:37.1	15.3	149.3					
NRDL	e Pn	Z	05:06:47.3	16.0	149.8					

BSEG e Pn Z 05:07:01.4 17.2 152.6

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/30 10:23:33.4 16.021N 95.724W 33.0G 5.2 4.8  
 Oaxaca, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z 10:36:08.0	85.3	290.3	1.3	67	5.7		
BUG	e P	Z 10:36:07.7	85.3	290.0	1.3	47	5.5		
BSEG	e P	Z 10:36:11.8	86.2	292.2	1.6	56	5.5		
TNS	e P	Z 10:36:13.4	86.5	291.0	1.2	59	5.6		
NRDL	e P	Z 10:36:12.9	86.6	292.1	1.6	30	5.2		
CLZ	e P	Z 10:36:15.8	87.0	292.4	1.9	46	5.3		
STU	e P	Z 10:36:18.1	87.4	291.6	1.1	22	5.4		
MOX	e P	Z 10:36:21.3	88.2	293.4	1.2	9	5.0		
GRA1	e P	Z 10:36:22.0	88.3	293.1	0.8	6	5.0		
	e L	Z 11:16:48.8			20.8	420		4.8	
WERD	e P	Z 10:36:23.4	88.7	293.9	1.4	12	5.0		
CLL	e P	Z 10:36:23.4	88.7	294.4	1.2	11	5.0		
GUNZ	e P	Z 10:36:23.8	88.7	293.9	1.3	16	5.1		
TANN	e P	Z 10:36:24.0	88.8	294.0	1.2	11	5.0		
WET	e P	Z 10:36:27.7	89.5	294.4	1.1	12	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/30 12:59:15.4 21.710S 178.340W 600.0G  
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 13:17:51.8	147.1	14.9					
	e PKPab	Z 13:17:55.5							
NRDL	e PKPbc	Z 13:17:54.3	148.5	15.2					
	e PKPab	Z 13:18:00.1							
IBBN	e PKPbc	Z 13:17:56.9	149.0	11.1					
CLL	e PKPbc	Z 13:17:56.8	149.1	20.9					
	e PKPab	Z 13:18:03.2							
CLZ	e PKPbc	Z 13:17:57.2	149.1	15.9					
BRG	e PKPbc	Z 13:17:57.3	149.3	22.8					
	e PKPab	Z 13:18:04.3							
BUG	e PKPbc	Z 13:17:58.9	150.0	10.4					
MOX	e PKPbc	Z 13:17:59.0	150.0	18.8					
	e PKPab	Z 13:18:07.4							
TANN	e PKPbc	Z 13:17:59.2	150.1	20.4					
WERD	e PKPbc	Z 13:17:59.2	150.1	20.1					
	e PKPab	Z 13:18:07.5							
GUNZ	e PKPbc	Z 13:17:59.5	150.1	20.2					

	e	PKPab	Z	13:18:08.1				
TNS	e	PKPbc	Z	13:18:01.5	151.0	13.1		
	e	PKPab	Z	13:18:11.8				
GRA1	e	PKPbc	Z	13:18:01.5	151.0	18.6		
	e	PKPab	Z	13:18:12.3				
WET	e	PKPbc	Z	13:18:01.6	151.2	22.0		
	e	PKPab	Z	13:18:12.6				
GEC2	e	PKPbc	Z	13:18:01.6	151.2	23.7		
	e	PKPab	Z	13:18:12.7				
STU	e	PKPbc	Z	13:18:04.1	152.3	15.2		
	e	PKPab	Z	13:18:17.1				
BFO	e	PKPbc	Z	13:18:05.2	152.9	13.7		
	e	PKPab	Z	13:18:19.3				

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/31 00:41:56.2 6.845S 12.583W 33.0G 4.7 3.8  
 Ascension Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 00:51:51.8	58.2	204.7	1.1	8	4.7		
FUR	e P	Z 00:51:56.6	58.9	208.0	1.0	14	4.9		
GRA1	e P	Z 00:52:05.9	60.2	207.5	1.5	18	4.9		
	e L	Z 01:15:59.1			21.3	77		3.8	
WET	e P	Z 00:52:06.1	60.2	209.4	1.4	10	4.7		
GEC2	e P	Z 00:52:06.2	60.3	210.4	1.3	12	4.8		
GUNZ	e P	Z 00:52:12.4	61.1	208.5	1.0	9	4.6		
MOX	e P	Z 00:52:12.6	61.2	207.7	1.0	6	4.4		
WERD	e P	Z 00:52:12.6	61.2	208.5	1.2	6	4.3		
TANN	e P	Z 00:52:12.9	61.2	208.7	1.0	6	4.4		
NRDL	e P	Z 00:52:21.0	62.4	205.6	1.2	11	5.0		
BSEG	e P	Z 00:52:30.1	63.8	205.5	0.9	9	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/07/31 01:19:14.2 48.760N 149.460E 33.0G  
 Northwest of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 01:30:43.0	73.0	26.7					
CLL	e P	Z 01:30:44.2	73.3	28.3					
BRG	e P	Z 01:30:44.8	73.3	28.8					
CLZ	e P	Z 01:30:46.8	73.5	26.8					
TANN	e P	Z 01:30:50.2	74.2	27.9					
WERD	e P	Z 01:30:50.2	74.2	27.8					
MOX	e P	Z 01:30:50.4	74.2	27.4					
GUNZ	e P	Z 01:30:50.6	74.3	27.8					

BUG	e P	Z	01:30:53.0	74.7	24.8
WET	e P	Z	01:30:56.1	75.2	27.9
GEC2	e P	Z	01:30:55.5	75.2	28.4
GRA1	e P	Z	01:30:56.1	75.2	27.0
FUR	e P	Z	01:31:03.8	76.6	26.9
STU	e P	Z	01:31:03.8	76.6	25.7
BFO	e P	Z	01:31:07.1	77.3	25.1

## 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. 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, GFZ, 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