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

(produced by SZGRF/BGR - ERLANGEN)

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

(Format desciption at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	23:51:22.4	52.347N	159.454E	33.0N	4.1			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:02:57.8	74.5	19.5	1.2	2	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	22:55:34.1	4.642S	129.595E	10.0G		4.6		NEIC

Banda Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKiKP	Z	23:14:08.6	111.6	70.6					
	e L	Z	00:09:37.3			19.8	149		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	00:31:14.9	54.800S	1.100E	10.0				NEIC

Bouvet Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	00:49:37.4	104.8	186.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	01:36:24.2	22.301S	178.845W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:56:05.6	147.6	16.0					
NRDL	e PKPbc	Z	01:56:09.4	149.0	16.2					
CLL	e PKPbc	Z	01:56:10.5	149.6	22.0					
CLZ	e PKPbc	Z	01:56:11.1	149.6	17.0					
BRG	e PKPbc	Z	01:56:11.2	149.7	24.0					
MOX	e PKPbc	Z	01:56:12.6	150.5	19.9					
TANN	e PKPbc	Z	01:56:13.2	150.5	21.6					
UBBA	e PKPbc	Z	01:56:13.0	150.7	16.9					
ROTZ	e PKPbc	Z	01:56:14.6	151.2	21.6					
GRA1	e PKPbc	Z	01:56:14.9	151.5	19.8					
TNS	e PKPbc	Z	01:56:15.2	151.5	14.2					
GEC2	e PKPbc	Z	01:56:15.4	151.6	25.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	01:57:21.6	20.180N	122.180E	55.0	6.3	6.7		SZGRF

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:09:56.2	85.3	63.4	1.2	394	6.5		
	e S	T	02:20:21.4							
CLL	e P	Z	02:09:57.4	85.6	62.8	1.1	350	6.4		
	e PP	Z	02:13:19.3							
	e S	T	02:20:24.5							
BSEG	e P	Z	02:09:59.1	85.8	60.9	1.1	501	6.5		
	e PP	Z	02:13:20.3							
	e S	T	02:20:28.1							
	e SS	T	02:25:59.5							
TANN	e P	Z	02:10:01.4	86.3	62.3	2.0	431	6.2		
	e S	T	02:20:32.8							
GEC2	e P	Z	02:10:01.3	86.3	63.1	1.4	241	6.2		
	e PP	Z	02:13:24.8							
	e S	T	02:20:34.1							
	e SS	T	02:26:14.8							
NRDL	e P	Z	02:10:03.2	86.6	60.6	1.4	439	6.4		
	e S	T	02:20:36.9							
WET	e P	Z	02:10:03.3	86.7	62.5	1.8	314	6.1		
	e pP	Z	02:10:17.7							
	e PP	Z	02:13:27.1							
	e S	T	02:20:37.4							
	e SS	T	02:26:18.5							
MOX	e P	Z	02:10:03.1	86.7	61.7	1.6	273	6.1		
	e pP	Z	02:10:19.9							
	e S	T	02:20:36.7							
	e SS	T	02:26:15.9							
ROTZ	e P	Z	02:10:04.0	86.8	62.1	2.3	708	6.4		

	e pP	Z	02:10:20.7						
	e PP	Z	02:13:26.5						
	e S	T	02:20:38.6						
	e SS	T	02:26:19.5						
CLZ	e P	Z	02:10:04.0	86.8	60.8	1.6	489	6.4	
	e S	T	02:20:37.3						
GRA1	e P	Z	02:10:06.8	87.4	61.3	2.4	984	6.7	
	e PP	Z	02:13:30.6						
	e S	T	02:20:44.3						
	e SS	T	02:26:30.9						
	e PKPPKPdf	Z	02:36:02.1						
	e L	Z	02:53:34.0			19.2	27890		6.7
RJOB	e P	Z	02:10:06.7	87.4	62.4	1.1	92	6.0	
	e S	T	02:20:42.8						
	e SS	T	02:26:29.5						
UBBA	e P	Z	02:10:06.9	87.5	60.5	2.0	292	6.3	
	e pP	Z	02:10:22.5						
	e S	T	02:20:43.7						
	e SS	T	02:26:27.0						
IBBN	e P	Z	02:10:09.2	88.0	58.8	1.4	351	6.5	
	e pP	Z	02:10:24.7						
	e S	T	02:20:48.3						
	e SS	T	02:26:37.2						
FUR	e P	Z	02:10:10.0	88.1	61.3	1.1	220	6.4	
	e PP	Z	02:13:36.7						
	e S	T	02:20:50.2						
	e SS	T	02:26:35.9						
TNS	e P	Z	02:10:12.9	88.7	59.3	1.2	175	6.2	
	e PP	Z	02:13:39.9						
	e S	T	02:20:55.1						
	e SS	T	02:26:48.3						
BUG	e P	Z	02:10:12.5	88.7	58.4	1.2	211	6.3	
	e S	T	02:20:56.6						
	e SS	T	02:26:46.4						
STU	e P	Z	02:10:14.0	89.0	59.8	1.3	105	5.9	
	e PP	Z	02:13:44.4						
	e S	T	02:20:58.0						
BFO	e P	Z	02:10:17.0	89.7	59.1	1.4	90	5.8	
	e pP	Z	02:10:32.6						
	e PP	Z	02:13:50.0						
	e S	T	02:21:03.9						
	e SS	T	02:27:06.0						
WLF	e P	Z	02:10:20.1	90.2	57.5				
	e S	T	02:21:10.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	03:05:40.2	36.000N	21.600E	35.0	3.5			NEIC

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:09:17.0	15.6	147.3	1.2	5	3.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	03:24: 8.9	32.100N	102.400E	34.5	4.8			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:34:45.1	64.7	69.4	0.8	5	4.8		
CLL	e P	Z	03:34:47.0	65.1	69.0	1.1	4	4.6		
GEC2	e P	Z	03:34:51.1	65.6	68.4	1.2	5	4.6		
BSEG	e P	Z	03:34:51.9	65.7	68.3	0.9	11	5.1		
TANN	e P	Z	03:34:52.1	65.8	68.3	0.9	3	4.5		
WET	e P	Z	03:34:54.0	66.0	68.0	1.2	4	4.5		
ROTZ	e P	Z	03:34:55.1	66.2	67.8	0.9	6	4.8		
MOX	e P	Z	03:34:54.6	66.2	67.8	1.1	3	4.5		
NRDL	e P	Z	03:34:56.4	66.4	67.5	1.2	9	4.9		
CLZ	e P	Z	03:34:56.3	66.5	67.4	0.9	8	4.9		
RJOB	e P	Z	03:34:57.8	66.6	67.4	1.4	5	4.5		
GRA1	e P	Z	03:34:58.7	66.8	67.1	0.9	12	5.1		
	e pP	Z	03:35:08.5							
FUR	e P	Z	03:35:02.9	67.4	66.6	1.0	18	5.2		
TNS	e P	Z	03:35:07.8	68.2	65.5	0.6	4	4.8		
STU	e P	Z	03:35:08.4	68.4	65.5	0.9	6	4.8		
BFO	e P	Z	03:35:12.7	69.1	64.8	1.0	6	4.7		
WLF	e P	Z	03:35:17.9	69.8	63.8	1.0	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	03:35:10.6	40.088N	26.840E	10.0G				GSRC

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pn	Z	03:38:57.5	14.6	125.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	03:54: 6.2	52.990N	158.022E	33.0N	4.8			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:05:13.5	69.8	20.0	1.5	23	5.1		
NRDL	e P	Z	04:05:22.0	71.2	19.7	1.1	5	4.6		

CLL	e P	Z	04:05:24.4	71.6	21.3	1.0	10	4.9
CLZ	e P	Z	04:05:25.7	71.7	19.8	1.1	15	5.0
IBBN	e P	Z	04:05:25.9	71.8	18.3	0.9	10	4.9
BRG	e P	Z	04:05:25.6	71.8	21.8	0.9	4	4.5
MOX	e P	Z	04:05:30.3	72.6	20.4	1.3	8	4.7
BUG	e P	Z	04:05:31.0	72.7	17.9	1.0	9	4.8
ROTZ	e P	Z	04:05:34.8	73.3	20.7	1.1	6	4.6
GRA1	e P	Z	04:05:36.3	73.6	20.1	1.1	18	5.0
TNS	e P	Z	04:05:36.8	73.6	18.5	0.9	9	4.8
WET	e P	Z	04:05:37.2	73.7	21.0	1.2	11	4.7
GEC2	e P	Z	04:05:37.2	73.8	21.4	0.8	4	4.6
STU	e P	Z	04:05:43.6	74.9	18.8	1.1	8	4.7
RJOB	e P	Z	04:05:44.9	75.0	20.8	1.0	6	4.5
BFO	e P	Z	04:05:47.0	75.5	18.3	0.9	8	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	06:25:31.3	73.980N	5.550E	33.0N	4.4			SZGRF

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	06:30:33.6	22.9	354.7	1.2	7	4.3		
BRG	e P	Z	06:30:38.1	23.4	354.2	1.3	11	4.5		
MOX	e P	Z	06:30:39.6	23.5	355.8	1.1	6	4.4		
TANN	e P	Z	06:30:42.1	23.7	355.3	1.4	12	4.5		
ROTZ	e P	Z	06:30:47.6	24.4	355.6	1.1	6	4.3		
GRA1	e P	Z	06:30:48.0	24.4	356.2	1.3	15	4.7		
WET	e P	Z	06:30:53.7	25.0	355.2	1.4	6	4.2		
GEC2	e P	Z	06:30:56.7	25.4	354.8	1.3	12	4.5		
BFO	e P	Z	06:30:59.3	25.7	358.2	2.1	15			
RJOB	e P	Z	06:31:06.5	26.4	355.5	1.0	3	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	07:39: 4.2	10.778N	91.440E	20.8	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:50:35.3	73.8	92.8	1.0	5	4.5		
GEC2	e P	Z	07:50:36.0	73.9	92.0	1.5	8	4.5		
WET	e P	Z	07:50:38.7	74.4	91.5	1.0	3	4.2		
TANN	e P	Z	07:50:40.3	74.7	91.5	1.6	8	4.5		
ROTZ	e P	Z	07:50:42.2	74.9	91.1	0.5	3	4.6		
GRA1	e P	Z	07:50:45.6	75.5	90.4	1.1	10	4.9		
	e pP	Z	07:50:51.5							
CLZ	e P	Z	07:50:48.3	76.0	90.3	0.8	5	4.7		
BSEG	e P	Z	07:50:49.1	76.1	90.7	0.6	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	09:24:35.2	52.527N	158.155E	30.5	5.3	5.1		SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	09:35:46.1	70.2	20.1	1.0	30	5.4		
NRDL	e P	Z	09:35:54.0	71.6	19.8	1.0	22	5.2		
CLL	e P	Z	09:35:56.5	72.1	21.4	0.9	28	5.4		
CLZ	e P	Z	09:35:57.9	72.2	19.9	1.1	41	5.5		
IBBN	e P	Z	09:35:58.0	72.3	18.4	1.0	32	5.4		
	e sP	Z	09:36:10.3							
BRG	e P	Z	09:35:57.7	72.3	21.9	1.1	19	5.1		
MOX	e P	Z	09:36:02.4	73.0	20.5	1.0	19	5.2		
TANN	e P	Z	09:36:02.8	73.1	21.0	2.5	122	5.6		
BUG	e P	Z	09:36:03.2	73.2	18.0	1.1	33	5.3		
UBBA	e P	Z	09:36:03.5	73.2	19.6	1.6	28	5.0		
ROTZ	e P	Z	09:36:06.9	73.7	20.8	1.2	25	5.1		
GRA1	e P	Z	09:36:08.7	74.0	20.2	1.4	92	5.6		
	e sP	Z	09:36:20.7							
	e L	Z	10:14:27.2			18.3	862		5.1	
TNS	e P	Z	09:36:08.9	74.1	18.6	0.9	27	5.3		
WET	e P	Z	09:36:09.4	74.1	21.1	1.0	28	5.2		
	e sP	Z	09:36:21.5							
GEC2	e P	Z	09:36:09.4	74.2	21.6	0.9	16	5.0		
WLF	e P	Z	09:36:14.6	75.1	17.2	2.2	98	5.5		
STU	e P	Z	09:36:15.7	75.3	18.9	1.1	27	5.3		
FUR	e P	Z	09:36:16.5	75.4	20.1	1.0	34	5.4		
RJOB	e P	Z	09:36:17.0	75.5	20.9	1.1	18	5.1		
BFO	e P	Z	09:36:19.1	75.9	18.4	1.1	17	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	09:43:48.0	18.286S	173.128W	33.0N				NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	10:03:34.5	148.4	7.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	10:33:28.5	4.563S	129.533E	10.0G		5.0		NEIC

Banda Sea

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

GEC2	e PKiKP	Z	10:52:00.5	110.2	73.0				
WET	e PKiKP	Z	10:52:01.8	110.7	72.2				
RJOB	e PKiKP	Z	10:52:02.0	111.1	72.6				
NRDL	e PKiKP	Z	10:52:02.9	111.2	68.6				
GRB3	e PKKPbc	Z	11:02:57.7	111.3	71.2				
	e PKKPbab	Z	11:03:08.6						
CLZ	e PKiKP	Z	10:52:03.2	111.3	69.1				
GRA1	e L	Z	11:47:41.2	111.5	70.6	20.6	437	5.0	
UBBA	e PKiKP	Z	10:52:04.2	111.8	69.1				
FUR	e PKiKP	Z	10:52:04.3	112.0	71.2				
STU	e PKiKP	Z	10:52:06.8	113.1	69.2				
BUG	e PKiKP	Z	10:52:07.0	113.2	66.5				
WLF	e PKiKP	Z	10:52:10.1	114.6	66.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	12:01:25.2	21.360S	167.435E	33.0N				SZGRF

Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	12:20:54.2	143.9	44.9					
CLL	e PKPbc	Z	12:20:54.5	144.0	43.2					
CLZ	e PKPbc	Z	12:20:56.8	144.7	38.9					
TANN	e PKPbc	Z	12:20:57.9	144.9	43.3					
WERD	e PKPbc	Z	12:20:57.6	145.0	43.0					
PLN	e PKPbc	Z	12:20:58.0	145.0	42.8					
WERN	e PKPbc	Z	12:20:57.8	145.1	43.3					
GEC2	e PKPbc	Z	12:20:59.2	145.5	46.6					
WET	e PKPbc	Z	12:21:00.0	145.7	45.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	12:30:25.0	43.732N	12.719E	10.0G			3.9	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	12:31:11.5	3.1	205.6					3.8
KBA	e Pn	Z	12:31:17.2	3.4	187.7					3.7
WTTA	e Pn	Z	12:31:21.2	3.6	167.5					4.0
RJOB	e Pn	Z	12:31:26.1	4.0	180.8					4.1
DAVA	e Pn	Z	12:31:27.4	4.1	149.7					3.8
MOA	e Pn	Z	12:31:29.0	4.3	195.2					3.8
GEC2	e Pn	Z	12:31:40.8	5.2	187.9					
	e Sn	E	12:32:38.3							
WET	e Pn	Z	12:31:43.7	5.4	181.2					
	e Sn	E	12:32:42.5							
BFO	e Pn	Z	12:31:45.8	5.5	144.9					

ROTZ	e Pn	Z	12:31:51.6	6.0	176.5	
	e Sn	E	12:32:56.7			
GRA1	e Sn	N	12:32:57.2	6.0	169.7	
TANN	e Pn	Z	12:32:01.1	6.7	178.4	
MOX	e Sn	N	12:33:19.2	7.0	173.4	
TNS	e Pn	Z	12:32:08.4	7.1	154.2	
BRG	e Sn	Z	12:33:26.4	7.2	187.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	14:24:22.0	48.506N	129.684W	33.0N	4.5			SZGRF

Vancouver Island, Canada, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:36:07.4	76.2	334.5	1.4	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	14:31: 6.1	59.300S	148.500E	33.0		6.7		GSRC

West of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e SS	R	15:14:20.1	152.1	129.2					
WET	e SS	R	15:14:27.2	152.8	128.7					
FUR	e SS	R	15:14:27.9	152.9	130.3					
BRG	e SS	R	15:14:34.7	153.3	126.0					
ROTZ	e SS	R	15:14:36.2	153.5	127.8					
TANN	e SS	R	15:14:39.5	153.7	126.8					
GRA1	e PKPdf	Z	14:50:54.0	153.9	128.0					
	e SS	R	15:14:41.3							
	e L	Z	16:07:03.3			21.4	11670		6.7	
CLL	e SS	R	15:14:42.7	154.0	125.3					
MOX	e SS	R	15:14:46.2	154.3	126.4					
STU	e SS	R	15:14:44.6	154.4	129.6					
BFO	e SS	R	15:14:45.7	154.6	130.4					
UBBA	e SS	R	15:14:56.0	155.2	126.1					
CLZ	e SS	R	15:15:01.5	155.6	124.3					
TNS	e SS	R	15:14:59.4	155.7	127.3					
NRDL	e SS	R	15:15:07.7	156.1	123.1					
WLF	e SS	R	15:15:07.1	156.5	128.5					
BSEG	e SS	R	15:15:15.6	156.8	120.3					
BUG	e SS	R	15:15:14.7	157.0	125.1					
IBBN	e SS	R	15:15:17.5	157.2	123.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	15:58:32.4	39.101N	142.129E	54.5	5.2			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	16:10:28.4	78.1	38.5	0.8	26	5.4		
BSEG	e P	Z	16:10:28.7	78.2	36.2	0.9	37	5.5		
BRG	e P	Z	16:10:34.3	79.3	38.4	0.8	15	5.0		
CLL	e P	Z	16:10:34.1	79.3	37.8	0.9	32	5.3		
NRDL	e P	Z	16:10:35.0	79.4	35.9	0.9	14	4.9		
CLZ	e P	Z	16:10:37.8	79.8	36.0	0.9	32	5.2		
TANN	e P	Z	16:10:39.4	80.2	37.3	1.0	8	4.7		
WERD	e P	Z	16:10:39.5	80.2	37.2	1.0	10	4.8		
GUNZ	e P	Z	16:10:39.6	80.3	37.2	1.0	16	5.0		
WERN	e P	Z	16:10:39.8	80.3	37.2	0.9	16	5.1		
	e pP	Z	16:10:55.1							
MOX	e P	Z	16:10:40.1	80.3	36.8	0.8	11	4.9		
IBBN	e P	Z	16:10:40.3	80.4	34.2	0.9	27	5.3		
UBBA	e P	Z	16:10:42.6	80.8	35.7	1.1	8	4.6		
ROTZ	e P	Z	16:10:43.2	80.8	37.1	1.0	15	5.0		
GEC2	e P	Z	16:10:43.1	80.9	38.0	1.0	12	4.9		
WET	e P	Z	16:10:44.2	81.0	37.5					
	e pP	Z	16:10:59.7							
GRA1	e P	Z	16:10:45.5	81.2	36.4	0.9	43	5.6		
BUG	e P	Z	16:10:44.8	81.3	33.8	1.0	22	5.2		
TNS	e P	Z	16:10:48.2	81.8	34.5	1.1	22	5.2		
RJOB	e P	Z	16:10:50.2	82.2	37.3	0.9	31	5.5		
FUR	e P	Z	16:10:51.4	82.5	36.3	1.0	46	5.7		
STU	e P	Z	16:10:52.8	82.8	34.9	0.9	23	5.4		
WLF	e P	Z	16:10:55.5	83.1	32.9	0.9	8	5.0		
BFO	e P	Z	16:10:56.4	83.5	34.3	1.0	30	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	16:35: 8.5	52.040N	159.977E	42.5	5.2			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	16:46:23.7	71.0	19.2	1.0	28	5.3		
	e pP	Z	16:46:35.3							
NRDL	e P	Z	16:46:31.6	72.4	18.9	1.0	15	5.1		
	e pP	Z	16:46:43.9							
CLL	e P	Z	16:46:34.1	73.0	20.5	0.9	28	5.4		
CLZ	e P	Z	16:46:35.5	73.0	19.0	1.0	32	5.4		
	e pP	Z	16:46:47.5							
IBBN	e P	Z	16:46:35.6	73.1	17.4	0.9	27	5.4		
	e pP	Z	16:46:47.9							
BRG	e P	Z	16:46:35.3	73.2	21.0	1.0	13	4.9		
MOX	e P	Z	16:46:40.0	73.9	19.6	1.0	14	5.0		

TANN	e P	Z	16:46:40.0	73.9	20.1	1.2	11	4.8
BUG	e P	Z	16:46:40.5	74.0	17.1	0.9	22	5.2
UBBA	e P	Z	16:46:40.6	74.1	18.7	1.5	18	4.9
ROTZ	e P	Z	16:46:44.5	74.6	19.9	1.2	18	5.0
GRA1	e P	Z	16:46:46.3	74.9	19.3	1.1	50	5.5
	e pP	Z	16:46:58.6					
TNS	e P	Z	16:46:46.2	74.9	17.7	0.8	23	5.2
	e pP	Z	16:46:58.7					
WET	e P	Z	16:46:47.0	75.0	20.2	1.0	25	5.2
GEC2	e P	Z	16:46:47.0	75.1	20.7	0.9	14	5.0
	e pP	Z	16:46:59.2					
WLF	e P	Z	16:46:51.6	75.9	16.2	1.3	18	5.0
STU	e P	Z	16:46:53.4	76.2	18.0	1.4	30	5.2
FUR	e P	Z	16:46:54.1	76.3	19.2	1.0	35	5.4
RJOB	e P	Z	16:46:54.7	76.4	20.1	0.9	16	5.2
BFO	e P	Z	16:46:55.8	76.8	17.5	0.9	14	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	16:38:36.2	51.982N	160.346E	33.0N	4.4			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:50:14.7	75.0	19.1	1.0	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	16:59:16.6	25.080N	121.980E	99.3	5.4			SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:11:30.8	81.3	60.6	1.3	20	5.0		
	e pP	Z	17:11:56.2							
CLL	e P	Z	17:11:32.1	81.6	60.0	1.1	37	5.4		
	e pP	Z	17:11:57.9							
BSEG	e P	Z	17:11:33.0	81.6	58.3	1.2	44	5.5		
TANN	e P	Z	17:11:36.4	82.3	59.5	1.4	19	5.2		
	e pP	Z	17:12:02.3							
GEC2	e P	Z	17:11:36.9	82.4	60.2	1.2	39	5.5		
	e pP	Z	17:12:02.7							
NRDL	e P	Z	17:11:37.6	82.5	58.0	1.2	18	5.2		
	e pP	Z	17:12:03.4							
MOX	e P	Z	17:11:38.2	82.7	58.9	1.3	25	5.3		
CLZ	e P	Z	17:11:38.9	82.7	58.1	1.2	53	5.6		
	e pP	Z	17:12:04.3							
WET	e P	Z	17:11:38.8	82.7	59.6	1.3	27	5.3		
ROTZ	e P	Z	17:11:39.3	82.8	59.2	1.2	36	5.5		

GRA1	e P	Z	17:11:42.3	83.4	58.5	1.2	63	5.7
	e pP	Z	17:12:07.7					
UBBA	e P	Z	17:11:42.1	83.4	57.7	1.5	20	5.1
RJOB	e P	Z	17:11:42.5	83.5	59.4	1.0	41	5.6
IBBN	e P	Z	17:11:44.0	83.8	56.2	1.4	35	5.4
FUR	e P	Z	17:11:46.1	84.1	58.4	1.3	145	6.1
	e pP	Z	17:12:12.5					
BUG	e P	Z	17:11:47.7	84.5	55.7	1.1	46	5.6
TNS	e P	Z	17:11:48.2	84.6	56.5	1.5	42	5.4
STU	e P	Z	17:11:49.7	85.0	57.0	1.2	30	5.4
	e pP	Z	17:12:16.0					
BFO	e P	Z	17:11:53.2	85.7	56.3	1.3	20	5.1
	e pP	Z	17:12:19.5					
WLF	e P	Z	17:11:56.0	86.1	54.8	1.1	56	5.6
	e pP	Z	17:12:22.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z	17:30:02.8							
CLZ	e PKP	Z	17:30:00.7							
GEC2	e PKP	Z	17:30:00.8							
MOX	e PKP	Z	17:30:00.6							
NEUB	e PKP	Z	17:30:02.0							
TANN	e PKP	Z	17:30:01.5							
WERD	e PKP	Z	17:30:01.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/01	21:39:55.4	16.377S	176.756W	114.0				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	21:59:17.9	145.1	14.1					
PLN	e PKPbc	Z	21:59:19.2	145.1	15.1					
WERD	e PKPbc	Z	21:59:18.0	145.2	15.3					
TANN	e PKPbc	Z	21:59:18.1	145.2	15.6					
GUNZ	e PKPbc	Z	21:59:18.0	145.2	15.4					
WERN	e PKPbc	Z	21:59:18.9	145.3	15.5					
NKC	e PKPbc	Z	21:59:19.2	145.3	15.7					
ROTZ	e PKPbc	Z	21:59:20.3	145.8	15.4					
GRA1	e PKPbc	Z	21:59:21.1	146.1	13.8					
	e pPKPbc	Z	21:59:51.6							
GEC2	e PKPbc	Z	21:59:22.3	146.4	18.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:10:52.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02	01:37:32.9	36.483S	9.795W	33.0N	4.9			SZGRF

Tristan da Cunha region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:50:20.8	88.2	196.8	1.3	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02	01:59: 5.9	35.223S	12.635W	33.0N	4.6			SZGRF

Tristan da Cunha region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:11:50.7	87.5	199.3	1.4	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02	02:07:14.0	34.250S	11.152W	29.3	4.8			SZGRF

Tristan da Cunha region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:19:52.7	86.3	198.4	1.4	11	4.8		
	e pP	Z	02:20:01.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02	02:17:34.5	35.983S	10.832W	33.0N	4.9			SZGRF

Tristan da Cunha region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	02:30:13.6	86.3	199.0	1.9	13	4.7		
STU	e P	Z	02:30:15.1	86.6	196.1	1.0	14	5.0		
GEC2	e P	Z	02:30:20.0	87.6	199.7	2.3	17	4.8		
WET	e P	Z	02:30:20.3	87.7	199.0	1.4	11	4.8		
GRA1	e P	Z	02:30:21.0	87.9	197.7	1.5	41	5.5		
ROTZ	e P	Z	02:30:22.7	88.1	198.5	1.4	12	5.0		

TANN	e P	Z	02:30:25.9	88.8	198.7	1.4	10	5.0	
BRG	e P	Z	02:30:28.9	89.6	199.8	0.8	2	4.4	
CLL	e P	Z	02:30:30.0	89.8	199.1	1.2	7	4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02	04:19:49.7	15.951S	173.941W	41.5		5.4		SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	04:39:19.4	144.2	11.5					
BRG	e PKPbc	Z	04:39:20.6	144.5	13.1					
UBBA	e pPKPbc	Z	04:39:34.3	145.0	6.6					
MOX	e PKPbc	Z	04:39:22.3	145.0	9.3					
	e pPKPbc	Z	04:39:34.5							
TANN	e PKPbc	Z	04:39:23.0	145.2	10.8					
	e pPKPbc	Z	04:39:34.9							
TNS	e PKPbc	Z	04:39:24.4	145.7	4.1					
	e pPKPbc	Z	04:39:36.6							
ROTZ	e PKPbc	Z	04:39:24.7	145.8	10.6					
	e pPKPbc	Z	04:39:36.8							
GRA1	e PKPbc	Z	04:39:25.5	146.0	8.9					
	e pPKPbc	Z	04:39:37.6							
	e L	Z	05:43:04.2			22.0	765		5.4	
WLF	e PKPbc	Z	04:39:26.9	146.3	0.2					
	e pPKPbc	Z	04:39:39.4							
WET	e PKPbc	Z	04:39:26.9	146.3	11.9					
	e pPKPbc	Z	04:39:38.9							
GEC2	e PKPbc	Z	04:39:26.7	146.5	13.4					
	e pPKPbc	Z	04:39:39.9							
STU	e PKPbc	Z	04:39:28.5	147.1	5.6					
	e pPKPbc	Z	04:39:41.6							
FUR	e PKPbc	Z	04:39:30.4	147.5	9.4					
BFO	e PKPbc	Z	04:39:30.0	147.6	4.1					
	e pPKPbc	Z	04:39:43.2							
RJOB	e PKPbc	Z	04:39:30.9	147.7	12.2					
	e pPKPbc	Z	04:39:43.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/02	17:50:32.9	43.624N	127.310W	33.0N	4.4	4.9		SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:02:38.9	79.9	330.9	0.8	4	4.4		
	e L	Z	18:39:57.3			18.3	484		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	01:50:51.4	50.632N	88.587E	16.1	4.7			SZGRF

Southwestern Siberia, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e pP	Z	01:59:00.7	43.7	62.7	0.9	51			
BRG	e P	Z	01:59:06.3	45.1	59.7					
	e pP	Z	01:59:10.7			1.5	11			
CLL	e P	Z	01:59:08.6	45.4	59.6					
	e pP	Z	01:59:12.8			1.0	14			
BSEG	e P	Z	01:59:08.9	45.5	60.5	0.9	16	4.7		
	e pP	Z	01:59:13.9							
TANN	e P	Z	01:59:14.9	46.2	58.6	0.8	4	4.4		
	e pP	Z	01:59:19.0							
GEC2	e P	Z	01:59:16.3	46.3	57.9	1.0	3	4.2		
NRDL	e P	Z	01:59:16.3	46.3	59.2	1.1	12	4.7		
	e pP	Z	01:59:20.7							
MOX	e P	Z	01:59:17.2	46.5	58.4	0.7	5	4.6		
	e pP	Z	01:59:21.8							
CLZ	e P	Z	01:59:17.9	46.5	58.8	0.6	5	4.6		
WET	e P	Z	01:59:18.5	46.6	57.8	0.7	3	4.3		
	e pP	Z	01:59:22.6							
ROTZ	e P	Z	01:59:19.1	46.6	58.0	0.8	5	4.5		
	e pP	Z	01:59:23.4							
GRA1	e P	Z	01:59:23.6	47.2	57.5	1.3	25	5.1		
	e pP	Z	01:59:28.1							
UBBA	e P	Z	01:59:24.3	47.3	57.8	1.3	5	4.4		
RJOB	e P	Z	01:59:25.5	47.4	56.6	0.8	5	4.6		
IBBN	e P	Z	01:59:26.3	47.7	57.9	0.5	17	5.3		
FUR	e P	Z	01:59:29.9	48.0	56.4	0.8	10	5.0		
TNS	e P	Z	01:59:32.6	48.4	56.7	1.0	14	5.0		
STU	e P	Z	01:59:35.6	48.8	55.9	0.8	13	5.1		
BFO	e P	Z	01:59:40.6	49.5	55.2	0.8	3	4.4		
WLF	e P	Z	01:59:45.1	50.0	55.2	1.2	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	03:09:24.9	31.290N	104.960E	13.7	5.2	4.9		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:20:17.5	66.8	68.3	1.0	13	5.1		
CLL	e P	Z	03:20:19.8	67.2	67.9	1.2	14	5.1		
BSEG	e P	Z	03:20:23.5	67.7	67.0	1.0	27	5.4		
GEC2	e P	Z	03:20:23.5	67.7	67.4	1.3	16	5.1		
TANN	e P	Z	03:20:24.2	67.9	67.2	1.2	13	5.0		

WET	e P	Z	03:20:26.1	68.1	67.0	1.0	7	4.8	
ROTZ	e P	Z	03:20:27.2	68.3	66.7	1.3	26	5.3	
MOX	e P	Z	03:20:26.7	68.3	66.7	1.4	16	5.1	
NRDL	e P	Z	03:20:27.9	68.4	66.3	1.1	20	5.3	
CLZ	e P	Z	03:20:28.4	68.5	66.3	1.0	26	5.4	
RJOB	e P	Z	03:20:30.2	68.7	66.4	1.5	17	5.1	
GRA1	e P	Z	03:20:31.1	68.9	66.1	1.0	24	5.4	
	e pP	Z	03:20:35.0						
	e L	Z	03:51:55.2			19.0	669		4.9
UBBA	e P	Z	03:20:31.9	69.2	65.6	1.4	10	4.8	
FUR	e P	Z	03:20:35.0	69.5	65.6	1.1	48	5.6	
IBBN	e P	Z	03:20:36.3	69.8	64.6	0.8	14	5.1	
TNS	e P	Z	03:20:39.7	70.3	64.4	0.6	8	5.0	
BUG	e P	Z	03:20:40.6	70.4	64.0	1.2	17	5.1	
STU	e P	Z	03:20:40.8	70.5	64.4	0.7	10	5.1	
BFO	e P	Z	03:20:44.8	71.2	63.7	1.4	18	5.0	
WLF	e P	Z	03:20:49.5	71.9	62.7	1.0	38	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	04:15:47.3	52.728N	169.424W	33.0N	4.7			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z	04:27:28.5	75.4	359.9	2.0	29	5.1		
BRG	e P	Z	04:27:33.2	76.4	2.1	1.6	11	4.7		
ROTZ	e P	Z	04:27:40.2	77.5	1.0	0.8	3	4.4		
GRA1	e P	Z	04:27:40.5	77.6	0.4	0.9	9	4.9		
WET	e P	Z	04:27:43.5	78.1	1.4	1.5	8	4.6		
GEC2	e P	Z	04:27:44.4	78.4	1.9	1.6	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	04:26: 7.6	46.781N	154.820E	8.8	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:38:05.9	78.5	24.5	0.8	6	4.7		
	e pP	Z	04:38:08.5			0.8	6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	08:42:20.0	3.342S	67.736E	22.4	5.1	4.3		SZGRF

Carlsberg Ridge

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

RJOB	e P	Z	08:53:30.1	70.0	119.6	1.0	9	4.8	
GEC2	e P	Z	08:53:29.3	70.0	120.7	2.0	17	4.8	
	e pP	Z	08:53:35.3						
WET	e P	Z	08:53:33.4	70.6	120.1				
BRG	e P	Z	08:53:36.0	70.9	121.5	0.9	8	4.8	
	e pP	Z	08:53:42.1						
FUR	e P	Z	08:53:36.9	71.1	118.4	1.1	43	5.5	
TANN	e P	Z	08:53:39.4	71.5	120.1	1.5	9	4.7	
	e pP	Z	08:53:46.2						
CLL	e P	Z	08:53:40.8	71.6	120.8	1.6	37	5.3	
	e pP	Z	08:53:46.8						
GRA1	e P	Z	08:53:41.0	71.8	118.8	1.8	83	5.6	
	e pP	Z	08:53:47.7						
	e L	Z	09:45:47.2			19.6	172		4.3
MOX	e P	Z	08:53:42.8	72.1	119.4	1.1	10	4.8	
BFO	e P	Z	08:53:48.2	72.9	116.0	1.6	37	5.2	
	e pP	Z	08:53:54.6						
UBBA	e P	Z	08:53:48.8	73.1	118.1	1.8	41	5.3	
	e pP	Z	08:53:55.1						
CLZ	e P	Z	08:53:51.1	73.3	118.7	1.8	48	5.3	
	e pP	Z	08:53:56.3						
TNS	e P	Z	08:53:52.9	73.7	116.6	1.5	38	5.2	
NRDL	e P	Z	08:53:53.1	73.8	118.6	1.4	17	4.9	
BSEG	e P	Z	08:53:56.5	74.4	119.1	1.8	39	5.2	
WLF	e P	Z	08:53:57.7	74.7	114.5	0.9	10	4.9	
	e pP	Z	08:54:05.7						
BUG	e P	Z	08:53:59.5	74.9	115.9	1.0	14	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	09:00:32.8	8.600N	82.900W	35.0	4.9			NEIC

Panama-Costa Rica border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
PLN	e P	Z	09:13:11.6	86.6	279.4	1.1	35	5.4		
WERN	e P	Z	09:13:13.6	86.7	279.5	1.7	18	4.9		
TANN	e P	Z	09:13:13.1	86.8	279.6	1.2	6	4.6		
NKC	e P	Z	09:13:14.4	86.8	279.6	1.4	10	4.8		
WET	e P	Z	09:13:15.6	87.2	280.0	1.6	14	4.8		
GEC2	e P	Z	09:13:18.8	87.8	280.6	1.9	17	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	09:21:52.0	32.500N	48.600E	10.0	4.6			NEIC

Western Iran

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

GRA1	e P	Z	09:28:23.5	32.5	107.7	0.9	8	4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	10:15:59.7	0.040N	94.650E	33.0N	4.9	4.9		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:28:27.0	84.0	96.8	1.2	11	4.9		
BRG	e P	Z	10:28:27.8	84.1	97.2	1.1	6	4.7		
WET	e P	Z	10:28:29.4	84.6	96.2	0.9	5	4.7		
ROTZ	e P	Z	10:28:32.4	85.1	95.8	1.0	4	4.6		
MOX	e P	Z	10:28:35.1	85.6	95.4	1.2	4	4.5		
GRA1	e P	Z	10:28:35.8	85.7	95.0	1.3	21	5.1		
	e L	Z	11:14:53.1			19.8	454		4.9	
CLZ	e P	Z	10:28:38.8	86.4	94.5	1.1	8	4.8		
BSEG	e P	Z	10:28:39.8	86.6	94.6	1.1	18	5.1		
NRDL	e P	Z	10:28:39.8	86.6	94.3	1.2	22	5.2		
BFO	e P	Z	10:28:43.4	87.5	92.7	1.4	7	4.8		
TNS	e P	Z	10:28:44.0	87.5	92.9	0.9	12	5.2		
WLF	e P	Z	10:28:52.4	89.0	91.1	1.0	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	16:21: 2.0	9.390S	159.730E	89.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	16:39:51.2	129.2	40.4					
	e PP	Z	16:42:09.9							
BRG	e PKPdf	Z	16:39:52.8	129.9	46.3					
	e PP	Z	16:42:14.3							
	e SS	R	16:59:28.8							
CLL	e PKPdf	Z	16:39:52.8	130.0	45.0					
	e PP	Z	16:42:14.3							
	e pPP	Z	16:42:35.8							
	e SS	R	16:59:35.1							
NRDL	e PKPdf	Z	16:39:53.5	130.4	40.9					
	e PP	Z	16:42:15.0							
CLZ	e PKPdf	Z	16:39:54.5	130.7	41.6					
	e PP	Z	16:42:19.3							
	e pPP	Z	16:42:41.8							
	e SS	R	16:59:49.3							
TANN	e PKPdf	Z	16:39:54.7	130.9	44.9					
	e PP	Z	16:42:19.3							
	e SS	R	16:59:45.4							
MOX	e PKPdf	Z	16:39:55.1	131.1	43.8					

	e PP	Z	16:42:22.0			
	e pPP	Z	16:42:44.1			
	e SS	R	16:59:46.1			
GEC2	e PKPdf	Z	16:39:55.6	131.4	47.3	
	e PP	Z	16:42:23.2			
IBBN	e PKPdf	Z	16:39:55.5	131.4	38.2	
	e PP	Z	16:42:22.4			
WET	e PKPdf	Z	16:39:56.2	131.6	46.2	
	e PP	Z	16:42:26.2			
UBBA	e PKPdf	Z	16:39:56.1	131.7	41.7	
	e PP	Z	16:42:25.1			
	e pPP	Z	16:42:47.5			
GRA1	e PKPdf	Z	16:39:56.8	132.0	43.9	
	e PP	Z	16:42:28.4			
	e pPP	Z	16:42:50.8			
	e SKKPdf	Z	16:54:14.8			
BUG	e PKPdf	Z	16:39:57.1	132.3	38.1	
	e PP	Z	16:42:29.0			
	e pPP	Z	16:42:51.2			
RJOB	e PKPdf	Z	16:39:57.7	132.6	47.0	
	e PP	Z	16:42:33.2			
	e pPP	Z	16:42:54.2			
TNS	e PKPdf	Z	16:39:58.5	132.8	40.2	
	e PP	Z	16:42:32.5			
FUR	e PKPdf	Z	16:39:58.7	133.0	44.9	
	e PP	Z	16:42:35.4			
	e pPP	Z	16:42:57.3			
STU	e PKPdf	Z	16:39:59.7	133.5	42.0	
	e PP	Z	16:42:37.7			
	e SS	R	17:00:18.5			
WLF	e PKPdf	Z	16:40:01.5	134.1	37.7	
	e PP	Z	16:42:43.9			
BFO	e PKPdf	Z	16:40:00.9	134.2	41.2	
	e PP	Z	16:42:42.3			
	e pPP	Z	16:43:03.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	17:00:45.8	47.528N	155.920E	33.0N	4.8			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	17:12:28.2	75.8	23.0	1.3	8	4.7		
CLL	e P	Z	17:12:29.7	76.2	24.8	0.9	13	5.0		
BRG	e P	Z	17:12:30.6	76.3	25.3	1.0	5	4.6		
CLZ	e P	Z	17:12:31.7	76.4	23.1	0.9	9	4.9		
MOX	e P	Z	17:12:35.7	77.1	23.8	0.9	7	4.8		
GRA1	e P	Z	17:12:41.9	78.1	23.5	1.0	24	5.3		

WET	e P	Z	17:12:41.9	78.2	24.5	1.0	12	4.9
GEC2	e P	Z	17:12:41.6	78.2	25.0	1.0	5	4.5
TNS	e P	Z	17:12:43.4	78.3	21.8	0.7	12	5.0
RJOB	e P	Z	17:12:49.5	79.5	24.3	0.9	8	4.7
FUR	e P	Z	17:12:49.6	79.5	23.4	1.1	24	5.0
BFO	e P	Z	17:12:52.4	80.1	21.6	1.1	12	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	22:04:27.8	8.100S	120.200E	14.0		5.7		NEIC

Flores, Indonesia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PP	Z	22:23:11.9	106.5	82.4					
	e SP	Z	22:32:22.5							
GEC2	e PP	Z	22:23:14.0	106.9	82.9					
	e SP	Z	22:32:27.1							
CLL	e PP	Z	22:23:12.3	107.0	81.6					
	e SP	Z	22:32:27.4							
WET	e PP	Z	22:23:07.4	107.4	82.1					
	e SP	Z	22:32:32.8							
TANN	e PP	Z	22:23:08.5	107.5	81.4					
	e SP	Z	22:32:33.2							
RJOB	e PP	Z	22:23:10.6	107.7	82.5					
	e SP	Z	22:32:35.5							
ROTZ	e PP	Z	22:23:11.7	107.8	81.4					
	e SP	Z	22:32:36.8							
MOX	e PP	Z	22:23:13.4	108.0	80.6					
	e SP	Z	22:32:38.3							
BSEG	e PP	Z	22:23:15.3	108.2	78.5					
	e SP	Z	22:32:40.4							
GRA1	e PP	Z	22:23:18.5	108.4	80.6					
	e SP	Z	22:32:43.7							
	e L	Z	23:13:19.8			21.1	2039		5.7	
CLZ	e PP	Z	22:23:18.9	108.6	79.2					
	e SP	Z	22:32:44.3							
NRDL	e PP	Z	22:23:19.2	108.6	78.8					
	e SP	Z	22:32:44.5							
FUR	e PP	Z	22:23:19.7	108.6	81.2					
	e SP	Z	22:32:44.9							
UBBA	e PP	Z	22:23:23.6	109.0	79.3					
	e SP	Z	22:32:48.9							
STU	e PP	Z	22:23:33.3	109.9	79.3					
	e SP	Z	22:32:58.9							
IBBN	e PP	Z	22:23:33.9	110.0	76.9					
	e SP	Z	22:32:59.5							
TNS	e PP	Z	22:23:35.0	110.1	78.2					
	e SP	Z	22:33:00.6							

BFO	e PP	Z	22:23:39.9	110.5	78.8
	e SP	Z	22:33:06.0		
BUG	e PP	Z	22:23:38.9	110.5	76.8
	e SP	Z	22:33:05.1		
WLF	e PP	Z	22:23:50.4	111.6	76.5
	e SP	Z	22:33:17.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/03	22:50: 2.9	1.910S	98.370E	38.9	5.4			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	23:02:49.0	87.9	95.3	1.6	53	5.6		
BRG	e P	Z	23:02:48.9	88.0	95.5	1.1	26	5.5		
	e pP	Z	23:03:00.1							
RJOB	e P	Z	23:02:50.6	88.4	94.6	0.8	16	5.4		
WET	e P	Z	23:02:51.5	88.5	94.7	1.0	24	5.5		
CLL	e P	Z	23:02:51.4	88.6	94.8	1.1	19	5.4		
TANN	e P	Z	23:02:53.1	88.9	94.4	1.0	13	5.2		
	e pP	Z	23:03:04.7							
ROTZ	e P	Z	23:02:54.2	89.0	94.2	1.0	16	5.3		
MOX	e P	Z	23:02:55.7	89.4	93.7	1.4	23	5.3		
FUR	e P	Z	23:02:55.7	89.5	93.4	1.0	22	5.4		
GRA1	e P	Z	23:02:57.1	89.6	93.4	1.0	42	5.8		
	e pP	Z	23:03:08.7							
CLZ	e P	Z	23:02:59.8	90.3	92.8	1.0	16	5.4		
BSEG	e P	Z	23:03:00.0	90.4	92.7	1.1	17	5.4		
UBBA	e P	Z	23:03:00.3	90.5	92.5	1.8	21	5.3		
NRDL	e P	Z	23:03:00.6	90.5	92.5	1.2	21	5.4		
STU	e P	Z	23:03:02.5	90.9	91.9	1.2	21	5.4		
TNS	e P	Z	23:03:05.1	91.4	91.3	0.9	41	5.8		
BFO	e P	Z	23:03:04.7	91.5	91.2	1.0	12	5.2		
WLF	e P	Z	23:03:12.5	92.9	89.5	1.1	12	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/04	17:03:12.4	42.281N	139.818E	219.0	5.9			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:14:27.0	74.5	36.3	1.6	352	6.1		
	e S	T	17:23:47.4							
BRG	e P	Z	17:14:32.8	75.6	38.2	1.7	212	5.9		
	e S	T	17:23:58.5							
CLL	e P	Z	17:14:32.6	75.6	37.7	1.0	108	5.8		
	e S	T	17:23:57.6							

NRDL	e P	Z	17:14:33.7	75.8	36.0	1.5	164	5.8
	e S	T	17:23:59.6					
CLZ	e P	Z	17:14:36.5	76.2	36.0	1.5	329	6.2
	e S	T	17:24:04.8					
TANN	e P	Z	17:14:38.2	76.6	37.2	1.5	92	5.7
	e S	T	17:24:09.0					
MOX	e P	Z	17:14:38.9	76.7	36.7	1.5	126	5.8
	e S	T	17:24:10.0					
IBBN	e P	Z	17:14:39.1	76.7	34.4	0.8	85	5.9
	e S	T	17:24:09.7					
UBBA	e P	Z	17:14:41.3	77.2	35.7	1.6	134	5.8
	e S	T	17:24:14.7					
GEC2	e P	Z	17:14:42.1	77.3	37.8	1.3	68	5.6
	e S	T	17:24:17.6					
WET	e P	Z	17:14:43.2	77.4	37.3	1.5	159	5.9
	e pP	Z	17:15:35.3					
	e S	T	17:24:19.0					
GRA1	e P	Z	17:14:44.4	77.6	36.3	0.9	156	6.2
	e pP	Z	17:15:36.5					
	e PP	Z	17:17:42.7					
	e PPP	Z	17:19:29.3					
	e S	T	17:24:21.2					
BUG	e P	Z	17:14:43.9	77.6	33.9	1.5	194	6.0
	e S	T	17:24:20.6					
TNS	e P	Z	17:14:47.4	78.2	34.6	1.3	180	6.0
	e S	T	17:24:26.4					
RJOB	e P	Z	17:14:49.5	78.6	37.1	1.8	267	6.1
	e S	T	17:24:31.7					
FUR	e P	Z	17:14:50.8	78.8	36.1	1.7	430	6.3
	e S	T	17:24:34.0					
STU	e P	Z	17:14:52.2	79.1	34.9	1.6	309	6.1
	e S	T	17:24:36.2					
WLF	e P	Z	17:14:54.6	79.5	33.0	1.6	136	5.7
	e S	T	17:24:40.8					
BFO	e P	Z	17:14:55.8	79.8	34.3	1.4	240	6.0
	e S	T	17:24:42.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/04	21:25:45.2	70.340N	8.980W	26.3	4.2	3.5		SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	21:30:00.1	18.5	339.5	1.1	26	4.4		
NRDL	e P	Z	21:30:15.9	19.8	341.1	0.9	6	3.8		
CLL	e P	Z	21:30:34.0	21.6	340.0	1.4	12	4.1		
MOX	e P	Z	21:30:37.8	21.9	341.5	0.8	8	4.2		
TANN	e P	Z	21:30:41.9	22.3	341.1	1.6	22	4.4		

	GRA1	e P	Z	21:30:47.5	22.7	342.5	1.4	21	4.5	
		e pP	Z	21:30:53.8						
		e L	Z	21:40:54.3			18.0	175		3.5
	ROTZ	e P	Z	21:30:48.2	22.8	341.8	1.3	14	4.3	
	WET	e P	Z	21:30:54.5	23.6	341.7	1.1	7	4.1	
	GEC2	e P	Z	21:30:59.8	24.0	341.4	0.9	5	4.0	
	FUR	e P	Z	21:30:59.4	24.2	343.5	0.6	8	4.4	
	RJOB	e P	Z	21:31:08.0	24.9	342.8	0.9	8	4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/04	21:28:25.7	22.351S	176.219W	33.0G		5.0		SZGRF

South of Fiji Islands

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e PKPbc	Z	21:48:08.1	148.0	11.5					
	NRDL	e PKPbc	Z	21:48:11.4	149.5	11.6					
	CLZ	e PKPbc	Z	21:48:13.5	150.1	12.3					
	CLL	e PKPbc	Z	21:48:13.5	150.2	17.3					
	BRG	e PKPbc	Z	21:48:13.1	150.4	19.3					
	BUG	e PKPbc	Z	21:48:14.1	150.8	6.6					
	MOX	e PKPbc	Z	21:48:15.6	151.1	15.1					
	UBBA	e PKPbc	Z	21:48:15.2	151.1	12.0					
	TANN	e PKPbc	Z	21:48:15.6	151.1	16.8					
	ROTZ	e PKPbc	Z	21:48:17.4	151.8	16.7					
	TNS	e PKPbc	Z	21:48:18.0	151.9	9.2					
	GRA1	e PKPbc	Z	21:48:17.7	152.0	14.8					
		e L	Z	23:02:19.4			19.7	239		5.0	
	GEC2	e PKPbc	Z	21:48:18.2	152.4	20.1					
	RJOB	e PKPbc	Z	21:48:21.1	153.6	19.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05	01:45:26.8	42.300N	147.400E	33.0N	4.9			SZGRF

Off southeast coast of Hokkaido, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	01:57:35.0	80.3	31.3	1.6	22	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05	02:16:48.6			33.0N		5.8		NEIC

Off southeast coast of Hokkaido, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKPdf	Z	02:35:52.1							

e	PP	Z	02:37:43.1				
e	L	Z	03:24:05.9		22.0	2073	5.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05	02:34:50.9	50.797N	173.603W	33.0G	5.1			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:46:30.8	75.2	2.6					
NRDL	e P	Z	02:46:38.4	76.7	2.4					
CLZ	e P	Z	02:46:42.5	77.3	2.6					
CLL	e P	Z	02:46:44.1	77.7	4.3					
BRG	e P	Z	02:46:46.7	78.1	4.9					
MOX	e P	Z	02:46:48.5	78.5	3.4					
TNS	e P	Z	02:46:51.1	79.0	1.3					
GRA1	e P	Z	02:46:54.3	79.4	3.1	1.1	30	5.1		
	e		02:47:09.3							
GEC2	e P	Z	02:46:57.6	80.2	4.7					
BFO	e P	Z	02:47:01.3	80.9	1.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05	04:41:13.7	32.869N	104.667E	33.0N	5.7			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:52:07.5	67.6	65.1	1.8	81	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05	16:56:23.2	52.058N	169.893W	33.0N	5.3			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:08:20.1	78.2	0.7	1.0	30	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e Pn	Z	18:16:43.2							
CLL	e Pn	Z	18:16:08.5							
CLZ	e Pn	Z	18:16:23.8							

FUR	e Pn	Z	18:15:29.4
GRA1	e Pn	Z	18:15:59.7
MOX	e Pn	Z	18:15:54.3
RJOB	e Pn	Z	18:15:16.3
WLF	e Pn	Z	18:16:24.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/05								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPbc	Z	21:46:47.9							
CLL	e PKPbc	Z	21:46:37.2							
FUR	e PKPbc	Z	21:46:47.6							
GRA1	e PKPbc	Z	21:46:43.6							
RJOB	e PKPbc	Z	21:46:48.2							
TNS	e PKPbc	Z	21:46:42.5							
WLF	e PKPbc	Z	21:46:44.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/06	00:12:58.3	34.820N	32.420E	33.0N	4.3			SZGRF

Cyprus region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	00:17:25.0	19.5	124.3	0.7	5	3.9		
GEC2	e P	Z	00:17:25.0	19.7	128.5	1.1	20	4.2		
WET	e P	Z	00:17:30.5	20.3	127.6	1.1	16	4.2		
FUR	e P	Z	00:17:32.8	20.6	122.6	0.9	22	4.5		
ROTZ	e P	Z	00:17:37.4	21.0	127.7	1.2	8	3.9		
TANN	e P	Z	00:17:40.9	21.3	129.5	1.1	10	4.1		
GRA1	e P	Z	00:17:43.2	21.5	125.8	0.8	8	4.2		
CLL	e P	Z	00:17:44.6	21.6	132.2	0.7	7	4.2		
MOX	e P	Z	00:17:48.2	21.9	128.4	1.1	37	4.7		
BFO	e P	Z	00:17:52.4	22.4	118.3	1.0	25	4.6		
UBBA	e P	Z	00:17:57.1	22.8	126.0	1.5	20	4.4		
CLZ	e P	Z	00:18:00.7	23.2	128.5	1.5	15	4.3		
NRDL	e P	Z	00:18:06.7	23.7	129.3	1.0	8	4.2		
BSEG	e P	Z	00:18:15.2	24.6	132.1	1.6	24	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/06	02:39: 1.7	31.100N	141.500E	49.0	4.9	4.6		NEIC

Southeast of Honshu, Japan

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

GRA1	e P	Z	02:51:53.7	87.9	40.8	1.8	13	4.9	
	e L	Z	03:34:10.3			18.4	217		4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/06	03:42:50.9	7.400S	156.100E	77.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	04:01:44.9	125.9	43.5					
CLL	e PKPdf	Z	04:01:45.7	126.6	47.9					
NRDL	e PKPdf	Z	04:01:46.8	127.1	44.0					
CLZ	e PKPdf	Z	04:01:48.3	127.4	44.7					
TANN	e PKPdf	Z	04:01:47.7	127.5	47.8					
MOX	e PKPdf	Z	04:01:48.0	127.7	46.7					
GEC2	e PKPdf	Z	04:01:48.4	127.9	50.1					
ROTZ	e PKPdf	Z	04:01:48.8	128.0	47.9					
WET	e PKPdf	Z	04:01:49.2	128.1	49.0					
UBBA	e PKPdf	Z	04:01:49.6	128.3	44.8					
GRA1	e PKPdf	Z	04:01:49.7	128.5	46.8					
RJOB	e PKPdf	Z	04:01:50.7	129.1	49.7					
STU	e PKPdf	Z	04:01:52.8	130.1	45.1					
BFO	e PKPdf	Z	04:01:54.3	130.8	44.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/06	13:43:14.6	5.500S	124.500E	139.2				SZGRF

Banda Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKiKP	Z	14:01:07.6	107.6	76.4					
	e PP	Z	14:01:53.4							
	e PKKPab	Z	14:12:16.9							
GEC2	e PKiKP	Z	14:01:08.4	107.7	77.7					
	e PP	Z	14:01:54.8							
	e PKKPab	Z	14:12:15.6							
TANN	e PKiKP	Z	14:01:09.9	108.2	76.2					
	e PP	Z	14:01:59.0							
	e PKKPab	Z	14:12:14.8							
WET	e PKiKP	Z	14:01:09.9	108.2	76.9					
	e PP	Z	14:01:57.8							
	e PKKPab	Z	14:12:13.8							
BSEG	e PKiKP	Z	14:01:11.4	108.5	73.3					
	e PKKPab	Z	14:12:12.7							
RJOB	e PKiKP	Z	14:01:10.0	108.6	77.3					
	e PP	Z	14:02:01.1							
	e PKKPab	Z	14:12:11.4							

MOX	e PKiKP	Z	14:01:10.7	108.6	75.4
	e PP	Z	14:01:59.3		
NRDL	e PKiKP	Z	14:01:11.6	109.0	73.5
	e PKKPab	Z	14:12:10.8		
GRA1	e PKiKP	Z	14:01:11.1	109.1	75.4
	e PP	Z	14:02:06.2		
	e pPP	Z	14:02:31.6		
	e PKKPab	Z	14:12:09.5		
FUR	e PKiKP	Z	14:01:12.6	109.5	76.0
UBBA	e PKiKP	Z	14:01:12.9	109.6	74.0
	e PP	Z	14:02:07.4		
	e PKKPab	Z	14:12:08.5		
STU	e PKiKP	Z	14:01:14.5	110.6	74.1
	e PP	Z	14:02:15.7		
TNS	e PKiKP	Z	14:01:14.8	110.7	72.9
	e PP	Z	14:02:17.1		
	e PKKPab	Z	14:12:03.4		
BUG	e PKKPab	Z	14:12:01.7	111.0	71.5
BFO	e PP	Z	14:02:18.5	111.3	73.5
WLF	e PP	Z	14:02:28.5	112.3	71.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/06	20:02:59.1	35.529N	0.232E	10.0G	5.2	4.8		SZGRF

Northern Algeria

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	20:06:18.3	14.1	208.0					
WLF	e P	Z	20:06:26.3	14.8	199.2	2.4	1008			
STU	e P	Z	20:06:27.3	14.8	209.8	1.4	122			
FUR	e P	Z	20:06:30.5	15.0	216.9	1.1	140	5.0		
RJOB	e P	Z	20:06:32.9	15.4	221.9	1.2	112	4.9		
TNS	e P	Z	20:06:41.2	15.9	205.2	1.4	343			
GRA1	e P	Z	20:06:46.4	16.3	213.6	1.2	563	5.6		
	e S	T	20:09:50.3							
	e L	Z	20:12:36.7			18.4	4979		4.8	
WET	e P	Z	20:06:47.6	16.5	218.9	1.3	201			
	e S	T	20:09:52.9							
GEC2	e P	Z	20:06:49.7	16.6	221.6	1.3	224	5.1		
	e S	T	20:09:54.2							
BUG	e P	Z	20:06:52.0	16.7	200.3	2.0	401	5.2		
	e S	T	20:09:54.4							
ROTZ	e P	Z	20:06:50.6	16.7	216.0	1.1	102	4.9		
	e S	T	20:09:59.3							
UBBA	e P	Z	20:06:53.0	16.8	208.5					
	e S	T	20:10:02.2							
MOX	e P	Z	20:06:57.9	17.2	212.9	1.5	261	5.1		
	e S	T	20:10:12.8							

TANN	e P	Z	20:06:58.5	17.3	215.4	1.4	71		
	e S	T	20:10:14.7						
IBBN	e P	Z	20:07:03.5	17.6	200.6	1.2	111	4.9	
	e S	T	20:10:16.9						
CLZ	e P	Z	20:07:05.1	17.8	207.9	1.1	51	4.7	
	e S	T	20:10:28.1						
CLL	e P	Z	20:07:10.8	18.2	215.1	3.9	2731	5.8	
	e S	T	20:10:37.3						
NRDL	e P	Z	20:07:12.1	18.4	206.3	2.3	577	5.4	
	e S	T	20:10:40.6						
BSEG	e P	Z	20:07:27.0	19.7	205.0	1.5	227	5.2	
	e S	T	20:11:08.1						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	00:49: 7.4	37.510N	97.430E	33.0N	4.7			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	00:59:01.7	58.4	67.9	1.7	10	4.6		
GEC2	e P	Z	00:59:05.4	59.0	67.0	1.3	6	4.5		
ROTZ	e P	Z	00:59:09.3	59.5	66.6	1.5	11	4.7		
CLZ	e P	Z	00:59:11.0	59.7	66.5	1.2	9	4.7		
RJOB	e P	Z	00:59:12.5	60.0	65.8	1.4	7	4.5		
GRA1	e P	Z	00:59:13.0	60.1	65.9	1.2	10	4.7		
FUR	e P	Z	00:59:17.3	60.7	65.2	1.6	40	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	04:25:11.5	44.860N	11.177E	10.0G			3.4	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pn	Z	04:25:51.8	2.4	187.7					3.6
	e Sg	E	04:26:27.0							
DAVA	e Pn	Z	04:25:54.7	2.6	159.2					3.3
KBA	e Pn	Z	04:25:56.6	2.7	215.0					3.2
	e Sg	N	04:26:37.8							
OBKA	e Pn	Z	04:25:56.3	2.9	236.2					3.4
	e Sg	N	04:26:41.8							
RJOB	e Pn	Z	04:26:00.0	3.1	201.8					3.3
	e Sg	N	04:26:50.2							
FUR	e Sg	N	04:26:55.1	3.3	181.2					3.7
MOA	e Pn	Z	04:26:08.2	3.7	216.6					3.3
	e Pn	E	04:26:08.5							
	e Sn	N	04:26:54.3							
BFO	e Pn	Z	04:26:12.3	4.0	149.5					3.5

	e Sn	N	04:26:58.7				
GEC2	e Pn	Z	04:26:16.0	4.3	204.4		3.2
WET	e Pn	Z	04:26:17.7	4.4	195.8		3.4
	e Sn	N	04:27:08.3				
GRA1	e Sg	N	04:27:45.2	4.8	180.4		3.8
TNS	e Sn	N	04:27:39.6	5.7	160.0		3.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	09:14:22.3	22.270S	171.540E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	09:33:56.1	145.3	31.5					
CLL	e PKPbc	Z	09:33:59.9	146.5	37.9					
NRDL	e PKPbc	Z	09:34:00.0	146.6	32.4					
CLZ	e PKPbc	Z	09:34:01.7	147.0	33.3					
TANN	e PKPbc	Z	09:34:02.5	147.4	37.9					
IBBN	e PKPbc	Z	09:34:02.6	147.5	28.7					
MOX	e PKPbc	Z	09:34:02.8	147.6	36.3					
	e PKPab	Z	09:34:04.6							
UBBA	e PKPbc	Z	09:34:04.0	148.0	33.6					
ROTZ	e PKPab	Z	09:34:07.6	148.1	38.1					
GEC2	e PKPbc	Z	09:34:04.5	148.1	41.4					
WET	e PKPbc	Z	09:34:04.8	148.3	39.8					
BUG	e PKPbc	Z	09:34:05.0	148.4	28.6					
GRA1	e PKPbc	Z	09:34:05.4	148.5	36.6					
	e PKPab	Z	09:34:09.5							
TNS	e PKPbc	Z	09:34:06.9	149.1	31.6					
RJOB	e PKPab	Z	09:34:11.8	149.4	41.2					
FUR	e PKPab	Z	09:34:14.1	149.7	38.3					
WLF	e PKPbc	Z	09:34:10.4	150.3	28.1					
BFO	e PKPbc	Z	09:34:10.8	150.7	33.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	16:56: 2.5	17.976N	65.335W	33.0N	4.9	4.3		SZGRF

Puerto Rico region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:06:57.3	67.8	271.9	1.5	13	4.9		
	e L	Z	17:34:15.6			18.1	182		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	20:04:34.5	13.593N	120.593E	132.2	4.8			SZGRF

Mindoro, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:17:38.8	91.7	66.5	0.9	4	4.8		
	e pP	Z	20:18:12.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	21:16:12.2	12.136N	82.362W	33.0N	4.8			SZGRF

Caribbean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	21:28:26.1	81.4	278.6	1.1	6	4.6		
BSEG	e P	Z	21:28:27.4	81.8	279.3	1.1	5	4.6		
STU	e P	Z	21:28:29.3	81.9	279.2	1.2	11	4.9		
UBBA	e P	Z	21:28:30.1	82.1	279.5	2.1	16	4.8		
CLZ	e P	Z	21:28:31.1	82.2	279.7	0.9	8	4.8		
GRA1	e P	Z	21:28:34.8	83.1	280.6	1.2	11	5.0		
MOX	e P	Z	21:28:35.6	83.1	280.8	0.9	6	4.8		
ROTZ	e P	Z	21:28:38.6	83.7	281.3	1.1	4	4.5		
TANN	e P	Z	21:28:38.7	83.7	281.5	0.9	10	5.0		
CLL	e P	Z	21:28:39.1	83.9	281.8	1.0	8	4.9		
WET	e P	Z	21:28:41.3	84.2	281.9	1.4	15	5.0		
RJOB	e P	Z	21:28:41.6	84.5	282.0	1.5	9	4.8		
GEC2	e P	Z	21:28:43.9	84.8	282.5	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	21:53:12.9	22.420S	174.830W	33.0N				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	22:12:55.6	148.2	9.1					
NRDL	e PKPbc	Z	22:12:59.3	149.7	9.1					
IBBN	e PKPbc	Z	22:13:00.3	150.0	4.8					
CLZ	e PKPbc	Z	22:13:00.7	150.3	9.7					
CLL	e PKPbc	Z	22:13:01.2	150.5	14.8					
BUG	e PKPbc	Z	22:13:02.2	150.9	4.0					
MOX	e PKPbc	Z	22:13:03.3	151.3	12.5					
UBBA	e PKPbc	Z	22:13:03.1	151.4	9.3					
TANN	e PKPbc	Z	22:13:03.7	151.4	14.2					
TNS	e PKPbc	Z	22:13:05.1	152.1	6.5					
	e PKPab	Z	22:13:13.1							
ROTZ	e PKPbc	Z	22:13:05.3	152.1	14.0					
GRA1	e PKPbc	Z	22:13:06.2	152.3	12.1					
WET	e PKPbc	Z	22:13:06.3	152.6	15.6					
	e PKPab	Z	22:13:17.0							

GEC2	e PKPbc	Z	22:13:06.4	152.7	17.4
WLF	e PKPbc	Z	22:13:07.0	152.7	2.0
STU	e PKPab	Z	22:13:20.1	153.5	8.3
FUR	e PKPab	Z	22:13:22.2	153.8	12.9
RJOB	e PKPab	Z	22:13:23.2	154.0	16.2
BFO	e PKPbc	Z	22:13:08.9	154.0	6.7
	e PKPab	Z	22:13:22.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/07	22:14:28.4	31.548N	105.529E	14.8	5.3	4.5		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	22:25:19.6	67.4	67.3	1.1	17	5.2		
	e pP	Z	22:25:23.7							
BSEG	e P	Z	22:25:23.3	67.8	66.4	1.0	32	5.5		
	e pP	Z	22:25:27.3							
GEC2	e P	Z	22:25:23.7	67.9	66.8	1.1	16	5.2		
TANN	e P	Z	22:25:24.3	68.0	66.6	1.1	14	5.1		
WET	e P	Z	22:25:26.3	68.3	66.4	1.2	13	5.0		
	e pP	Z	22:25:30.5							
MOX	e P	Z	22:25:26.8	68.4	66.1	1.3	16	5.1		
ROTZ	e P	Z	22:25:27.4	68.4	66.2	1.1	26	5.4		
	e pP	Z	22:25:31.5							
NRDL	e P	Z	22:25:27.8	68.5	65.7	1.1	31	5.5		
	e pP	Z	22:25:32.0							
CLZ	e P	Z	22:25:28.4	68.6	65.7	1.0	31	5.5		
	e pP	Z	22:25:32.5							
RJOB	e P	Z	22:25:30.2	68.9	65.8	1.5	9	4.8		
GRA1	e P	Z	22:25:31.2	69.0	65.5	1.1	37	5.5		
	e pP	Z	22:25:35.5							
	e L	Z	23:15:51.6			21.5	335		4.5	
UBBA	e P	Z	22:25:32.1	69.3	65.1	1.5	14	5.0		
FUR	e P	Z	22:25:35.2	69.7	65.0	1.2	64	5.6		
IBBN	e P	Z	22:25:36.1	69.9	64.0	1.3	30	5.3		
TNS	e P	Z	22:25:39.4	70.4	63.8	1.0	15	5.1		
	e pP	Z	22:25:43.8							
BUG	e P	Z	22:25:40.2	70.6	63.4	1.1	26	5.3		
STU	e P	Z	22:25:40.5	70.6	63.9	1.0	19	5.2		
	e pP	Z	22:25:44.9							
BFO	e P	Z	22:25:44.7	71.3	63.2	1.1	11	4.9		
	e pP	Z	22:25:49.1							
WLF	e P	Z	22:25:49.6	72.0	62.1	1.1	50	5.6		
	e pP	Z	22:25:53.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	00:07:16.2	7.410S	150.510E	33.0N				SZGRF

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	00:26:07.4	123.6	49.6					
CLL	e PKPdf	Z	00:26:08.2	123.9	53.8					
TANN	e PKPdf	Z	00:26:09.7	124.7	53.7					
NKC	e PKPdf	Z	00:26:10.2	124.8	53.8					
CLZ	e PKPdf	Z	00:26:10.2	124.9	50.8					
GEC2	e PKPdf	Z	00:26:10.2	125.0	55.9					
WET	e PKPdf	Z	00:26:11.1	125.2	54.9					
GRA1	e PKPdf	Z	00:26:11.2	125.8	52.9					
RJOB	e PKPdf	Z	00:26:12.3	126.1	55.6					
TNS	e PKPdf	Z	00:26:14.5	126.8	49.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	10:51:20.7	31.341N	104.096E	33.0N	5.3	5.0		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	11:02:02.5	65.8	69.4	1.1	34	5.5		
CLL	e P	Z	11:02:07.7	66.7	68.4	1.2	17	5.2		
GEC2	e P	Z	11:02:11.6	67.2	67.9	1.3	22	5.2		
BSEG	e P	Z	11:02:11.8	67.2	67.6	1.1	33	5.5		
TANN	e P	Z	11:02:12.4	67.3	67.7	1.4	19	5.1		
WERD	e P	Z	11:02:12.8	67.4	67.6	1.8	32	5.2		
WERN	e P	Z	11:02:13.1	67.4	67.6	0.9	12	5.1		
WET	e P	Z	11:02:14.2	67.6	67.5	1.6	27	5.2		
MOX	e P	Z	11:02:14.9	67.7	67.2	0.9	9	5.0		
NRDL	e P	Z	11:02:16.1	67.9	66.9	1.3	31	5.4		
CLZ	e P	Z	11:02:16.7	68.0	66.8	1.2	33	5.4		
RJOB	e P	Z	11:02:17.7	68.2	66.9	1.4	14	5.0		
GRA1	e P	Z	11:02:19.2	68.3	66.6	0.9	26	5.5		
	e L	Z	11:33:49.3			19.1	835		5.0	
UBBA	e P	Z	11:02:20.2	68.6	66.2	1.8	26	5.2		
FUR	e P	Z	11:02:23.1	68.9	66.1	1.1	55	5.7		
IBBN	e P	Z	11:02:24.4	69.3	65.2	1.1	16	5.2		
TNS	e P	Z	11:02:27.5	69.8	64.9	1.3	20	5.1		
BUG	e P	Z	11:02:28.5	69.9	64.5	1.3	24	5.2		
STU	e P	Z	11:02:28.6	69.9	65.0	0.9	18	5.2		
BFO	e P	Z	11:02:32.7	70.6	64.2	1.2	18	5.1		
WLF	e P	Z	11:02:37.8	71.3	63.2	1.3	61	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	12:25:21.8	37.470N	21.641E	10.0G	6.1	6.2		SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z	12:28:14.1	12.1	144.5					
	e Sn	N	12:30:20.3							
GEC2	e Pn	Z	12:28:21.7	12.7	150.2					
FUR	e Pn	Z	12:28:26.9	13.1	140.9					
WET	e Pn	Z	12:28:27.8	13.3	148.2					
GRA1	e Pn	Z	12:28:42.3	14.3	144.6					
	e L	Z	12:35:09.9			19.9	212407		6.2	
STU	e Pn	Z	12:28:45.5	14.5	136.8					
	e Sn	E	12:31:15.3							
TANN	e Pn	Z	12:28:45.3	14.5	149.6					
BFO	e Pn	Z	12:28:45.7	14.6	133.3					
MOX	e Pn	Z	12:28:51.3	15.0	147.7					
CLL	e Pn	Z	12:28:54.8	15.1	152.8					
TNS	e Pn	Z	12:29:04.5	15.9	138.5					
	e Sn	E	12:31:47.2							
CLZ	e P	Z	12:29:11.5	16.4	146.7	1.3	1937	6.1		
WLF	e P	Z	12:29:14.0	16.5	131.8					
NRDL	e P	Z	12:29:20.7	17.0	147.2					
RGN	e P	Z	12:29:31.7	18.0	158.2					
BSEG	e P	Z	12:29:32.3	18.2	150.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	13:04:59.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	15:05:13.2	17.140S	65.340W	33.0N	5.1			SZGRF

Central Bolivia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	15:18:16.4	91.6	245.0	1.1	22	5.3		
BUG	e P	Z	15:18:22.9	93.0	245.9	1.2	19	5.3		
STU	e P	Z	15:18:23.3	93.1	247.3	0.7	12	5.4		
TNS	e P	Z	15:18:23.5	93.2	246.8	1.1	19	5.3		
IBBN	e P	Z	15:18:25.7	93.6	246.4	1.1	23	5.4		
GRA1	e P	Z	15:18:30.6	94.7	248.8	1.3	13	5.2		
CLZ	e P	Z	15:18:32.0	94.9	248.4	1.0	6	4.9		
NRDL	e P	Z	15:18:32.4	95.0	248.2	1.1	10	5.0		
MOX	e P	Z	15:18:33.1	95.2	249.2	1.2	4	4.6		

WET	e P	Z	15:18:34.2	95.5	250.0	1.0	3	4.6
BSEG	e P	Z	15:18:34.8	95.7	248.5	0.8	7	5.0
GEC2	e P	Z	15:18:35.7	95.9	250.6	0.8	3	4.8
CLL	e P	Z	15:18:38.1	96.3	250.3	1.0	6	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:08:42.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	17:56:35.0	34.030N	90.120E	33.0N	5.0			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	18:06:14.9	56.5	75.7	1.6	24	5.0		
GEC2	e P	Z	18:06:16.8	56.7	74.6	1.5	28	5.1		
TANN	e P	Z	18:06:18.6	57.0	74.8	1.2	14	4.9		
WET	e P	Z	18:06:19.6	57.1	74.3	1.3	14	4.8		
WERN	e P	Z	18:06:20.2	57.1	74.7	1.6	25	5.0		
WERD	e P	Z	18:06:20.0	57.1	74.7	0.9	9	4.8		
BSEG	e P	Z	18:06:22.3	57.4	75.5	1.0	19	5.1		
MOX	e P	Z	18:06:22.4	57.5	74.4	1.4	16	4.8		
RJOB	e P	Z	18:06:23.3	57.6	73.4	1.5	18	4.9		
GRB3	e PP	Z	18:08:34.4	57.7	73.7					
NRDL	e P	Z	18:06:25.2	57.9	74.5	1.4	42	5.3		
CLZ	e P	Z	18:06:25.5	57.9	74.3	1.2	29	5.2		
GRA1	e P	Z	18:06:26.6	58.0	73.5	1.7	68	5.4		
STU	e P	Z	18:06:36.9	59.5	71.7	1.7	47	5.2		
TNS	e P	Z	18:06:36.7	59.5	72.0	1.4	29	5.1		
BFO	e P	Z	18:06:41.0	60.2	70.9	1.4	24	5.0		
WLF	e P	Z	18:06:47.9	61.1	70.3	1.3	45	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	18:24:37.8	31.524N	86.716E	33.0N	5.0			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:34:24.3	57.5	78.0	1.4	20	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	18:43: 9.4	48.638N	156.821E	33.0N	4.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:55:01.1	77.3	22.5	0.9	3	4.4		
	e		18:56:01.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	22:32: 5.8	51.124N	178.982E	33.0N	4.3			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:44:04.8	78.6	7.8	1.1	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/08	23:33:50.2	46.942N	154.876E	33.0N	4.3			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:45:47.8	78.4	24.4	0.9	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/09	00:32:13.3	19.710S	178.600W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	00:51:49.2	145.8	21.1					
NRDL	e PKPbc	Z	00:51:50.8	146.5	15.0					
IBBN	e PKPbc	Z	00:51:52.6	147.0	11.0					
CLZ	e PKPbc	Z	00:51:53.2	147.1	15.7					
CLL	e PKPbc	Z	00:51:52.8	147.1	20.4					
BUG	e PKPbc	Z	00:51:55.5	147.9	10.4					
MOX	e PKPbc	Z	00:51:55.5	148.0	18.4					
TANN	e PKPbc	Z	00:51:55.7	148.1	20.0					
GUNZ	e PKPbc	Z	00:51:56.1	148.1	19.8					
UBBA	e PKPbc	Z	00:51:55.6	148.2	15.5					
WERN	e PKPbc	Z	00:51:56.4	148.2	19.9					
ROTZ	e PKPbc	Z	00:51:57.8	148.7	19.9					
TNS	e PKPbc	Z	00:51:58.1	149.0	13.0					
GRA1	e PKPbc	Z	00:51:58.4	149.0	18.2					
WET	e PKPbc	Z	00:51:58.4	149.2	21.4					
GEC2	e PKPbc	Z	00:51:58.8	149.2	23.1					

WLF	e PKPbc	Z	00:52:00.5	149.8	8.9	
STU	e PKPbc	Z	00:52:01.4	150.3	14.9	
FUR	e PKPbc	Z	00:52:01.9	150.4	19.1	
RJOB	e PKPbc	Z	00:52:01.7	150.5	22.2	
BFO	e PKPbc	Z	00:52:02.7	150.8	13.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/09	06:40:11.6	20.800S	169.480E	33.0G		5.4		SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	06:59:43.9	145.0	35.5					
TANN	e PKPbc	Z	06:59:44.8	145.3	39.9					
MOX	e PKPbc	Z	06:59:45.2	145.5	38.4					
IBBN	e PKPbc	Z	06:59:45.6	145.5	31.1					
UBBA	e PKPbc	Z	06:59:46.8	145.9	35.8					
GEC2	e PKPbc	Z	06:59:46.8	145.9	43.2					
WET	e PKPbc	Z	06:59:47.4	146.1	41.7					
GRA1	e PKPbc	Z	06:59:48.1	146.4	38.7					
	e L	Z	08:11:04.5			19.3	568		5.4	
BUG	e PKPbc	Z	06:59:48.0	146.4	31.0					
TNS	e PKPbc	Z	06:59:49.7	147.0	33.9					
RJOB	e PKPbc	Z	06:59:50.7	147.2	43.0					
FUR	e PKPbc	Z	06:59:52.2	147.5	40.3					
STU	e PKPbc	Z	06:59:53.5	147.9	36.4					
WLF	e PKPbc	Z	06:59:54.4	148.2	30.6					
BFO	e PKPbc	Z	06:59:54.6	148.6	35.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	00:03:28.8	38.657N	141.139E	33.0N	4.6			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:15:41.9	81.2	37.3	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	03:00:51.4	19.650S	168.500E	36.8		5.6		SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z	04:33:18.5	144.9	39.3	18.4	909		5.6	
BUG	e PKPbc	Z	03:20:23.7	145.0	31.9					
TNS	e PKPbc	Z	03:20:26.0	145.6	34.6					

	e pPKPbc	Z	03:20:36.1			
FUR	e PKPbc	Z	03:20:27.5	146.1	40.8	
	e pPKPbc	Z	03:20:38.9			
STU	e PKPbc	Z	03:20:28.9	146.5	37.0	
	e pPKPbc	Z	03:20:40.0			
WLF	e PKPbc	Z	03:20:30.3	146.8	31.5	
	e pPKPbc	Z	03:20:41.5			
BFO	e PKPbc	Z	03:20:30.6	147.2	36.1	
	e pPKPbc	Z	03:20:42.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	04:05:37.3	21.984S	169.480W	92.0				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	04:25:12.3	148.0	359.6					
CLL	e PKPbc	Z	04:25:17.8	150.6	4.7					
MOX	e PKPbc	Z	04:25:19.3	151.3	2.1					
WERD	e PKPbc	Z	04:25:20.1	151.5	3.5					
TANN	e PKPbc	Z	04:25:21.3	151.5	3.8					
GUNZ	e PKPbc	Z	04:25:21.6	151.6	3.5					
WERN	e PKPbc	Z	04:25:22.5	151.7	3.6					
WLF	e PKPbc	Z	04:25:21.9	152.1	351.3					
GRA1	e PKPbc	Z	04:25:22.2	152.3	1.4					
WET	e PKPbc	Z	04:25:22.3	152.8	4.8					
GEC2	e PKPbc	Z	04:25:24.1	153.0	6.5					
FUR	e PKPbc	Z	04:25:26.1	153.8	1.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	04:13:34.8	20.194S	169.955E	35.9		5.8		SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e PKPbc	Z	04:33:03.8	144.9	38.7					
	e pPKPbc	Z	04:33:14.4							
ROTZ	e PKPbc	Z	04:33:04.7	145.5	38.9					
WET	e PKPbc	Z	04:33:06.4	145.7	40.5					
BUG	e PKPbc	Z	04:33:09.7	145.9	29.9					
GRA1	e PKPbc	Z	04:33:05.4	146.0	37.5					
	e PKPab	Z	04:33:11.0							
	e PP	Z	04:36:30.6							
	e L	Z	05:39:39.2			20.8	1879		5.8	
TNS	e PKPbc	Z	04:33:08.3	146.6	32.7					
	e PKPab	Z	04:33:14.6							
RJOB	e PKPbc	Z	04:33:08.1	146.8	41.8					

FUR	e PKPbc	Z	04:33:10.5	147.2	39.0
	e PKPab	Z	04:33:16.6		
	e pPKPbc	Z	04:33:20.7		
STU	e PKPbc	Z	04:33:11.5	147.5	35.2
	e PKPab	Z	04:33:17.9		
	e pPKPbc	Z	04:33:22.1		
WLF	e PKPbc	Z	04:33:13.0	147.8	29.5
	e PKPab	Z	04:33:19.3		
	e pPKPbc	Z	04:33:24.1		
BFO	e PKPbc	Z	04:33:13.0	148.2	34.2
	e pPKPbc	Z	04:33:24.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	06:05:15.2	50.690N	121.740E	33.0N	4.8			SZGRF

Northeastern China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:15:26.2	60.7	42.5	1.1	16	4.7		
CLL	e P	Z	06:15:31.0	61.5	43.0	0.8	5	4.8		
NRDL	e P	Z	06:15:33.3	61.9	41.9	1.3	12	5.0		
	e PP	Z	06:17:50.9							
CLZ	e P	Z	06:15:36.0	62.2	41.8	0.9	8	4.9		
TANN	e P	Z	06:15:37.2	62.4	42.4	1.1	5	4.6		
WERD	e P	Z	06:15:37.8	62.5	42.4					
GUNZ	e P	Z	06:15:38.0	62.5	42.3					
WERN	e P	Z	06:15:38.1	62.5	42.3					
MOX	e P	Z	06:15:38.5	62.6	42.1	1.2	7	4.7		
GEC2	e P	Z	06:15:41.2	63.0	42.5	1.2	7	4.6		
WET	e P	Z	06:15:42.4	63.2	42.2	1.2	9	4.8		
GRA1	e P	Z	06:15:44.5	63.5	41.5	1.3	17	5.1		
GRFO	e P	Z	06:15:43.7	63.5	41.5					
TNS	e P	Z	06:15:49.3	64.3	40.2	1.2	10	4.9		
RJOB	e P	Z	06:15:49.7	64.3	41.7	0.7	5	4.8		
FUR	e PP	Z	06:18:14.1	64.6	41.1					
WLF	e PP	Z	06:18:23.2	65.6	38.9					
BFO	e P	Z	06:15:58.4	65.8	39.6	1.2	6	4.7		
	e PP	Z	06:18:22.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	10:05: 4.5	33.600N	91.280E	15.6	5.5	4.9		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	10:14:53.7	57.5	75.3	1.1	27	5.2		
GEC2	e P	Z	10:14:55.9	57.7	74.3	1.5	71	5.5		

	e pP	Z	10:15:00.3						
TANN	e P	Z	10:14:58.1	58.0	74.4	1.1	27	5.2	
WET	e P	Z	10:14:58.9	58.1	73.9	1.3	39	5.3	
	e pP	Z	10:15:03.2						
ROTZ	e P	Z	10:15:00.9	58.4	73.8	1.3	77	5.6	
BSEG	e P	Z	10:15:00.8	58.4	75.0	0.8	41	5.5	
	e pP	Z	10:15:05.1						
MOX	e P	Z	10:15:01.1	58.5	74.0	1.7	62	5.4	
	e pP	Z	10:15:05.5						
RJOB	e P	Z	10:15:01.7	58.6	73.0	2.1	126	5.6	
	e pP	Z	10:15:06.0						
NRDL	e P	Z	10:15:04.2	58.9	74.0	1.4	102	5.7	
	e pP	Z	10:15:08.6						
GRA1	e P	Z	10:15:05.3	59.0	73.2	1.4	102	5.7	
	e pP	Z	10:15:09.5						
	e PP	Z	10:17:16.1						
	e S	R	10:23:25.4						
	e L	Z	10:45:22.8			19.7	967		4.9
FUR	e P	Z	10:15:08.1	59.4	72.3	1.3	125	5.8	
IBBN	e P	Z	10:15:13.7	60.3	72.3	1.4	55	5.4	
TNS	e P	Z	10:15:15.2	60.5	71.6	1.1	43	5.2	
	e pP	Z	10:15:19.4						
STU	e P	Z	10:15:15.1	60.5	71.3	1.6	100	5.4	
BUG	e P	Z	10:15:17.3	60.9	71.5	1.2	41	5.1	
	e pP	Z	10:15:21.9						
BFO	e P	Z	10:15:19.4	61.2	70.6	1.3	48	5.2	
WLF	e P	Z	10:15:26.3	62.1	69.9	1.3	96	5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	11:04:21.3	33.730N	91.220E	15.1	5.3	4.4		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	11:14:10.7	57.3	75.2	1.1	17	5.0		
	e pP	Z	11:14:14.4							
GEC2	e P	Z	11:14:12.4	57.6	74.2	1.5	48	5.3		
	e pP	Z	11:14:16.6							
TANN	e P	Z	11:14:14.6	57.9	74.3	1.2	20	5.0		
WET	e P	Z	11:14:15.5	58.0	73.8	1.3	25	5.1		
	e pP	Z	11:14:19.5							
ROTZ	e P	Z	11:14:17.4	58.2	73.8	1.3	46	5.4		
	e pP	Z	11:14:21.9							
BSEG	e P	Z	11:14:17.6	58.2	75.0	1.1	32	5.3		
	e pP	Z	11:14:21.6							
MOX	e P	Z	11:14:17.8	58.4	73.9	1.4	28	5.1		
	e pP	Z	11:14:22.5							
RJOB	e P	Z	11:14:18.5	58.5	72.9	2.2	79	5.4		

NRDL	e P	Z	11:14:21.0	58.8	74.0	1.2	56	5.5	
	e pP	Z	11:14:25.0						
CLZ	e P	Z	11:14:21.0	58.8	73.8	1.1	54	5.5	
	e pP	Z	11:14:24.6						
GRA1	e P	Z	11:14:22.0	58.9	73.1	1.3	62	5.5	
	e pP	Z	11:14:26.1						
	e PP	Z	11:16:32.6						
	e L	Z	11:42:28.9			20.1	317		4.4
FUR	e P	Z	11:14:24.9	59.3	72.2	1.6	132	5.7	
	e pP	Z	11:14:28.8						
IBBN	e P	Z	11:14:30.5	60.2	72.2	0.6	20	5.3	
	e pP	Z	11:14:35.0						
TNS	e P	Z	11:14:31.2	60.4	71.6	1.0	23	4.9	
	e pP	Z	11:14:35.9						
STU	e P	Z	11:14:32.2	60.4	71.3	1.6	72	5.2	
	e pP	Z	11:14:37.2						
BUG	e P	Z	11:14:34.1	60.7	71.4	1.3	36	5.0	
	e pP	Z	11:14:38.6						
BFO	e P	Z	11:14:35.8	61.1	70.5	1.4	32	5.0	
	e pP	Z	11:14:40.2						
WLF	e P	Z	11:14:43.5	62.0	69.8	1.3	81	5.8	
	e pP	Z	11:14:47.1						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	11:36:51.2	34.303N	92.909E	33.0N	4.8	4.2		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:46:51.7	59.5	71.5	1.2	12	4.8		
	e L	Z	12:14:50.3			19.4	172		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	14:15:44.4	33.680N	91.990E	33.0N	5.3	4.7		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	14:25:34.0	57.8	74.8	1.4	24	5.0		
GEC2	e P	Z	14:25:36.0	58.1	73.7	1.6	59	5.4		
TANN	e P	Z	14:25:38.3	58.4	73.9	1.7	40	5.2		
WET	e P	Z	14:25:39.1	58.5	73.4	1.6	42	5.2		
BSEG	e P	Z	14:25:41.0	58.7	74.5	1.1	39	5.3		
ROTZ	e P	Z	14:25:41.5	58.8	73.3	1.4	53	5.4		
MOX	e P	Z	14:25:41.5	58.9	73.4	1.5	27	5.1		
RJOB	e P	Z	14:25:42.4	59.0	72.5	2.1	83	5.4		
NRDL	e P	Z	14:25:44.1	59.2	73.5	1.5	77	5.5		

CLZ	e P	Z	14:25:44.2	59.3	73.3	1.4	55	5.4	
GRA1	e P	Z	14:25:45.2	59.4	72.6	1.6	87	5.5	
	e PP	Z	14:27:56.9						
	e L	Z	14:53:52.5			20.8	565		4.7
FUR	e P	Z	14:25:48.4	59.8	71.8	1.6	122	5.7	
IBBN	e P	Z	14:25:54.1	60.7	71.8	1.4	37	5.0	
TNS	e P	Z	14:25:55.5	60.9	71.1	1.4	38	5.0	
STU	e P	Z	14:25:55.9	60.9	70.8	1.0	32	5.1	
BUG	e P	Z	14:25:57.5	61.2	71.0	1.3	35	5.0	
BFO	e P	Z	14:26:00.1	61.6	70.1	1.5	43	5.5	
WLF	e P	Z	14:26:07.1	62.5	69.3	1.5	100	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	18:47:32.8	38.520N	68.700E	33.0N	4.6			SZGRF

Tajikistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:55:07.6	40.2	83.6	1.4	8	4.2		
CLL	e P	Z	18:55:08.4	40.4	86.0	0.9	9	4.5		
WET	e P	Z	18:55:11.6	40.7	83.4	1.7	11	4.3		
TANN	e P	Z	18:55:12.6	40.8	84.6	1.4	15	4.5		
WERD	e P	Z	18:55:13.1	40.9	84.5	1.4	10	4.4		
RJOB	e P	Z	18:55:13.2	40.9	81.7	0.9	4	4.2		
ROTZ	e P	Z	18:55:15.0	41.0	83.7	1.5	13	4.4		
GRA1	e P	Z	18:55:20.4	41.7	82.9	1.6	56	5.0		
FUR	e P	Z	18:55:21.1	41.8	81.2	0.8	10	4.6		
BSEG	e P	Z	18:55:21.0	41.9	87.0	1.1	26	4.9		
NRDL	e P	Z	18:55:22.7	42.1	85.2	1.0	15	4.7		
IBBN	e P	Z	18:55:34.1	43.5	83.3	1.4	47	5.0		
BFO	e P	Z	18:55:35.9	43.7	79.6	1.4	10	4.3		
BUG	e P	Z	18:55:38.9	43.9	82.1	0.8	13	4.7		
WLF	e P	Z	18:55:46.0	44.9	79.5	0.9	13	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/10	22:23:30.5	31.310N	102.040E	33.0N	5.0	4.5		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	22:34:11.8	65.5	69.8	1.0	8	4.9		
GEC2	e P	Z	22:34:15.1	65.9	69.3	1.3	6	4.7		
BSEG	e P	Z	22:34:16.4	66.1	69.1	1.0	18	5.3		
TANN	e P	Z	22:34:15.9	66.1	69.1	0.9	4	4.7		
WERD	e P	Z	22:34:16.7	66.2	69.0					
GUNZ	e P	Z	22:34:16.9	66.2	69.0					
WERN	e P	Z	22:34:17.0	66.2	69.0					

NEUB	e P	Z	22:34:16.8	66.3	69.0				
WET	e P	Z	22:34:17.7	66.3	68.9	1.4	10	4.9	
ROTZ	e P	Z	22:34:19.0	66.5	68.7	0.8	7	4.9	
NRDL	e P	Z	22:34:20.0	66.8	68.3	1.0	13	5.1	
CLZ	e P	Z	22:34:20.9	66.8	68.3	0.8	11	5.2	
GRA1	e P	Z	22:34:22.8	67.1	68.0	1.1	15	5.1	
	e L	Z	23:05:42.4			20.7	314		4.5
FUR	e P	Z	22:34:26.5	67.7	67.4	0.8	20	5.4	
BFO	e P	Z	22:34:36.3	69.4	65.6	1.2	9	4.8	
WLF	e P	Z	22:34:41.7	70.2	64.6	1.0	16	5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11	01:31:35.0	52.058N	179.469W	33.0N	4.6			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:43:29.7	77.8	6.7	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	02:12:17.2							
	e PKPab	Z	02:12:23.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	02:16:50.0							
	e pPKP	Z	02:16:59.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11	02:30:11.5	33.500S	179.800E	35.0		5.6		NEIC

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	02:50:50.7	161.7	31.8					
	e L	Z	04:12:01.3			22.4	937		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11	04:33:43.5	23.298N	122.102E	33.0N	4.7			SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:46:15.2	84.8	59.5	1.3	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11	11:12:24.6	51.160N	179.650E	33.0N	5.2	4.7		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:24:02.9	74.5	6.9	0.9	60	5.6		
RUE	e P	Z	11:24:09.1	75.7	9.1	0.7	45	5.7		
NRDL	e P	Z	11:24:10.5	76.0	6.7	1.0	28	5.3		
IBBN	e P	Z	11:24:12.9	76.3	5.2	1.0	73	5.8		
CLZ	e P	Z	11:24:14.7	76.6	6.9	1.1	48	5.5		
CLL	e P	Z	11:24:15.5	76.9	8.6	0.9	17	5.2		
MOX	e P	Z	11:24:20.4	77.7	7.6	1.0	19	5.2		
WERD	e P	Z	11:24:21.1	77.8	8.1	1.2	13	5.0		
TANN	e P	Z	11:24:21.2	77.8	8.2	1.2	12	4.9		
GUNZ	e P	Z	11:24:21.7	77.9	8.1	1.1	17	5.1		
WERN	e P	Z	11:24:22.2	78.0	8.1	1.0	30	5.4		
TNS	e P	Z	11:24:24.0	78.3	5.6	0.9	32	5.4		
ROTZ	e P	Z	11:24:25.2	78.5	8.0	1.1	18	5.0		
GRA1	e P	Z	11:24:26.2	78.7	7.4	0.8	43	5.5		
	e L	Z	12:07:19.2			18.3	352		4.7	
WET	e P	Z	11:24:28.2	79.1	8.4	1.0	11	4.8		
GEC2	e P	Z	11:24:29.1	79.3	8.9	0.9	12	4.8		
BFO	e P	Z	11:24:34.0	80.2	5.5	1.6	28	5.1		
RJOB	e P	Z	11:24:35.8	80.5	8.3	0.8	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11	12:29:54.3	35.601S	15.432W	33.0N	5.2			SZGRF

Tristan da Cunha region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:42:43.8	88.5	201.4	1.3	17	5.2		
	e PP	Z	12:46:01.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/11	17:28:29.0	23.270S	178.430W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	17:48:17.4	150.6	21.8					
	e PKPab	Z	17:48:23.2							
CLZ	e PKPbc	Z	17:48:17.8	150.6	16.7					
MOX	e PKPbc	Z	17:48:19.8	151.5	19.6					
TANN	e PKPbc	Z	17:48:19.9	151.6	21.4					
GUNZ	e PKPbc	Z	17:48:20.2	151.6	21.2					
ROTZ	e PKPbc	Z	17:48:21.5	152.2	21.3					
GRA1	e PKPab	Z	17:48:31.8	152.5	19.5					
TNS	e PKPbc	Z	17:48:22.3	152.5	13.8					
WET	e PKPbc	Z	17:48:23.2	152.6	23.1					
	e PKPab	Z	17:48:33.3							
GEC2	e PKPbc	Z	17:48:22.3	152.7	24.9					
	e PKPab	Z	17:48:32.9							
RJOB	e PKPbc	Z	17:48:25.7	153.9	24.0					
	e PKPab	Z	17:48:38.3							
BFO	e PKPbc	Z	17:48:26.2	154.4	14.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	00:20:39.6	34.757N	26.854E	33.0G	4.8	4.1		SZGRF

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:24:34.4	17.1	140.6	1.4	61	4.5		
WET	e P	Z	00:24:41.6	17.7	139.2	1.5	62	4.5		
FUR	e P	Z	00:24:43.6	17.7	133.5					
ROTZ	e P	Z	00:24:50.3	18.4	139.0	1.7	68	4.5		
WERN	e P	Z	00:24:54.1	18.8	140.3	1.1	50	4.6		
GRFO	e P	Z	00:24:54.9	18.8	136.6	1.4	86	4.8		
GRA1	e P	Z	00:24:55.0	18.8	136.7	1.4	110	4.9		
	e L	Z	00:33:06.9			21.5	1498		4.1	
TANN	e P	Z	00:24:55.6	18.8	140.8	1.1	68	4.8		
GUNZ	e P	Z	00:24:55.8	18.8	140.4	0.9	54	4.8		
WERD	e P	Z	00:24:56.5	18.9	140.5	3.0	596	5.3		
STU	e P	Z	00:25:00.6	19.1	130.5	0.8	53	4.8		
BFO	e P	Z	00:25:01.3	19.3	127.9	0.8	35	4.6		
CLL	e P	Z	00:25:02.1	19.3	143.5	1.4	92	4.8		
MOX	e P	Z	00:25:01.6	19.4	139.3	1.4	52	4.6		
RUE	e P	Z	00:25:08.9	20.0	147.1	1.0	154	5.2		
UBBA	e P	Z	00:25:10.5	20.2	136.3	1.2	26	4.3		
TNS	e P	Z	00:25:14.4	20.5	132.1	0.7	64	4.9		
CLZ	e P	Z	00:25:16.6	20.8	138.9	1.1	45	4.7		
WLF	e P	Z	00:25:22.7	21.3	126.7	1.0	64	4.9		
NRDL	e P	Z	00:25:23.0	21.4	139.5	2.0	124	4.9		
BUG	e P	Z	00:25:29.0	21.8	132.2	1.5	96	5.0		

IBBN	e P	Z	00:25:32.7	22.2	134.7	1.6	150	5.2	
BSEG	e P	Z	00:25:34.4	22.4	142.2	1.4	52	4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:33:01.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	02:04:52.5	23.260S	167.870E	33.0N				SZGRF

New Caledonia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	02:24:24.5	145.0	37.7					
CLL	e PKPbc	Z	02:24:27.3	145.9	44.1					
NRDL	e PKPbc	Z	02:24:28.1	146.2	38.7					
CLZ	e PKPbc	Z	02:24:29.9	146.6	39.7					
TANN	e PKPbc	Z	02:24:30.9	146.8	44.3					
MOX	e PKPbc	Z	02:24:31.2	147.0	42.8					
IBBN	e PKPbc	Z	02:24:31.7	147.2	35.3					
GEC2	e PKPbc	Z	02:24:31.3	147.3	47.8					
UBBA	e PKPbc	Z	02:24:32.5	147.5	40.2					
GRA1	e PKPbc	Z	02:24:34.1	147.9	43.2					
WLF	e PKPbc	Z	02:24:40.2	150.0	35.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	05:30:44.6	50.149S	114.768W	33.0N		5.8		SZGRF

Southern East Pacific Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPbc	Z	05:50:12.7	143.7	245.1					
BUG	e PKPbc	Z	05:50:13.6	144.3	248.6					
STU	e PKPbc	Z	05:50:14.4	144.4	246.0					
TNS	e PKPbc	Z	05:50:15.2	144.5	247.6					
IBBN	e PKPbc	Z	05:50:15.9	144.9	250.0					
FUR	e PKPbc	Z	05:50:18.0	145.4	246.0					
UBBA	e PKPbc	Z	05:50:19.2	145.7	249.0					
GRA1	e PKPbc	Z	05:50:20.4	146.0	248.0					
	e SS	T	06:12:40.4							
	e L	Z	06:47:08.6			22.0	1675		5.8	
RJOB	e PKPbc	Z	05:50:20.5	146.2	245.9					
CLZ	e PKPbc	Z	05:50:21.1	146.3	250.6					

NRDL	e PKPbc	Z	05:50:21.3	146.3	251.4	
MOX	e PKPbc	Z	05:50:22.3	146.6	249.5	
ROTZ	e PKPbc	Z	05:50:22.6	146.6	248.5	
WET	e PKPbc	Z	05:50:22.5	146.8	247.9	
BSEG	e PKPbc	Z	05:50:22.9	146.9	253.6	
TANN	e PKPbc	Z	05:50:22.4	147.0	249.5	
GEC2	e PKPbc	Z	05:50:23.2	147.2	247.8	
CLL	e PKPbc	Z	05:50:25.2	147.6	251.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	10:25:29.4	19.490S	178.180W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:45:01.4	144.9	14.0					
NRDL	e PKPbc	Z	10:45:06.2	146.4	14.2					
CLZ	e PKPbc	Z	10:45:08.4	147.0	14.9					
CLL	e PKPbc	Z	10:45:08.1	147.0	19.6					
MOX	e PKPbc	Z	10:45:11.5	147.9	17.6					
PLN	e PKPbc	Z	10:45:11.1	147.9	18.6					
TANN	e PKPbc	Z	10:45:10.7	147.9	19.1					
WERD	e PKPbc	Z	10:45:11.2	147.9	18.9					
GUNZ	e PKPbc	Z	10:45:11.4	148.0	18.9					
WERN	e PKPbc	Z	10:45:11.9	148.1	19.1					
TNS	e PKPbc	Z	10:45:13.4	148.8	12.1					
GRA1	e PKPbc	Z	10:45:13.7	148.9	17.3					
GEC2	e PKPbc	Z	10:45:14.3	149.1	22.2					
WLF	e PKPbc	Z	10:45:16.3	149.6	8.1					
BFO	e PKPbc	Z	10:45:17.7	150.7	12.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	11:00:11.6	13.200N	144.700E	35.0		5.3		NEIC

Mariana Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e SS	R	11:33:23.8	102.5	45.5					
CLL	e SS	R	11:33:32.9	103.1	48.3					
NRDL	e SS	R	11:33:38.3	103.6	45.5					
CLZ	e SS	R	11:33:44.1	103.9	45.9					
TANN	e SS	R	11:33:46.4	103.9	48.0					
MOX	e SS	R	11:33:48.8	104.2	47.2					
GEC2	e SS	R	11:33:54.7	104.4	49.3					
WET	e SS	R	11:33:57.7	104.6	48.6					
UBBA	e SS	R	11:33:56.4	104.8	45.7					
GRA1	e Pdiff	Z	11:14:17.8	105.0	47.0					

	e SS	R	11:34:01.5						
	e L	Z	12:06:39.8			19.8	973	5.3	
RJOB	e SS	R	11:34:15.3	105.6	48.8				
BUG	e SS	R	11:34:05.3	105.6	43.1				
TNS	e SS	R	11:34:12.4	105.9	44.4				
FUR	e SS	R	11:34:17.9	106.0	47.4				
STU	e SS	R	11:34:24.3	106.6	45.4				
BFO	e SS	R	11:34:34.0	107.3	44.7				
WLF	e SS	R	11:34:32.3	107.4	42.5				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	13:10:13.6	25.689N	142.507E	35.0N		5.3		NEIC

Volcano Islands, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e SS	R	13:40:14.3	90.3	41.9					
CLL	e SS	R	13:40:24.9	91.1	44.1					
NRDL	e SS	R	13:40:30.9	91.5	41.7					
CLZ	e SS	R	13:40:36.7	91.9	42.0					
TANN	e SS	R	13:40:38.8	92.0	43.7					
MOX	e SS	R	13:40:41.3	92.2	43.0					
GEC2	e SS	R	13:40:47.7	92.6	44.7					
ROTZ	e SS	R	13:40:47.7	92.6	43.5					
WET	e SS	R	13:40:50.2	92.8	44.0					
UBBA	e SS	R	13:40:49.1	92.8	41.7					
GRA1	e SS	R	13:40:54.3	93.1	42.7					
	e L	Z	14:08:20.0			18.1	965	5.3		
BUG	e SS	R	13:41:00.9	93.4	39.5					
TNS	e SS	R	13:41:05.8	93.9	40.5					
FUR	e SS	R	13:41:11.9	94.2	42.8					
WLF	e SS	R	13:41:27.2	95.3	38.7					
BFO	e SS	R	13:41:27.8	95.4	40.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/12	16:53:17.3	51.090S	127.190W	33.0N				SZGRF

South Pacific Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	17:13:11.9	153.8	250.8					
CLZ	e PKPbc	Z	17:13:13.0	153.9	254.7					
RJOB	e PKPbc	Z	17:13:14.2	154.1	247.5					
MOX	e PKPbc	Z	17:13:13.9	154.3	252.8					
BSEG	e PKPbc	Z	17:13:14.5	154.4	258.8					
ROTZ	e PKPbc	Z	17:13:14.7	154.4	251.3					
PLN	e PKPbc	Z	17:13:14.3	154.6	252.7					

WET	e PKPbc	Z	17:13:14.8	154.6	250.3
GUNZ	e PKPbc	Z	17:13:13.9	154.7	252.5
WERN	e PKPbc	Z	17:13:14.4	154.7	252.4
WERD	e PKPbc	Z	17:13:14.0	154.7	252.7
NKC	e PKPbc	Z	17:13:14.0	154.7	252.3
TANN	e PKPbc	Z	17:13:15.0	154.8	252.7
GEC2	e PKPbc	Z	17:13:15.0	155.0	249.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/13	16:13:27.2	1.000N	97.500E	35.0	4.4			NEIC

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:26:08.3	86.8	92.2	0.7	2	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/13	19:08:52.6	51.688N	176.458E	31.7	4.4			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:20:47.3	77.8	9.3	0.9	3	4.4		
	e pP	Z	19:20:56.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/13								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:11:32.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/13	20:06:46.2	18.450S	12.270W	23.9	5.0	4.7		SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	20:17:49.2	69.3	200.9	1.3	14	5.0		
FUR	e P	Z	20:17:53.5	69.9	203.8	1.7	37	5.3		
RJOB	e P	Z	20:17:53.4	69.9	205.3	0.9	6	4.8		
WLF	e P	Z	20:17:54.5	70.0	198.6	1.9	69	5.6		
	e pP	Z	20:18:01.6							
TNS	e P	Z	20:18:01.9	71.1	200.8	1.1	11	5.0		
GEC2	e P	Z	20:18:01.7	71.2	206.0	1.2	7	4.8		

	e pP	Z	20:18:08.9						
WET	e P	Z	20:18:01.7	71.2	205.2	1.1	12	5.0	
	e pP	Z	20:18:07.8						
GRA1	e P	Z	20:18:02.0	71.2	203.5	1.3	16	5.0	
	e L	Z	20:47:34.5			19.9	442		4.7
ROTZ	e P	Z	20:18:04.2	71.6	204.5	1.2	14	5.0	
	e pP	Z	20:18:11.1						
BUG	e P	Z	20:18:05.2	72.0	199.5	1.3	15	5.0	
WERN	e P	Z	20:18:07.3	72.1	204.6	1.1	13	5.0	
WERD	e P	Z	20:18:08.0	72.2	204.5	1.2	10	4.8	
MOX	e P	Z	20:18:07.9	72.2	203.8	1.1	11	4.9	
TANN	e P	Z	20:18:08.2	72.2	204.6	1.1	9	4.8	
	e pP	Z	20:18:15.1						
IBBN	e P	Z	20:18:12.2	72.9	199.9	1.0	17	5.1	
CLZ	e P	Z	20:18:12.8	73.0	202.4	1.4	10	4.8	
CLL	e P	Z	20:18:14.0	73.2	205.0	1.2	7	4.6	
	e pP	Z	20:18:20.3						
NRDL	e P	Z	20:18:16.4	73.6	202.1	1.3	25	5.2	
BSEG	e P	Z	20:18:24.5	74.9	202.2	1.4	33	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/13	23:43:50.3	39.494N	141.986E	33.0N	6.7	7.6		SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	23:55:37.0	76.2	38.3	1.1	1426	7.0		
RUE	e P	Z	23:55:44.8	77.7	38.4	1.2	1118	6.7		
BSEG	e P	Z	23:55:44.4	77.8	36.1	1.1	1136	6.7		
HLG	e P	Z	23:55:48.2	78.4	34.5	1.1	1040	6.8		
CLL	e P	Z	23:55:49.9	78.9	37.7	1.1	833	6.7		
NRDL	e P	Z	23:55:51.0	79.0	35.8	1.2	470	6.4		
CLZ	e P	Z	23:55:53.7	79.4	35.9	1.2	1254	6.9		
TANN	e P	Z	23:55:55.1	79.8	37.2	1.2	322	6.3		
WERD	e P	Z	23:55:55.4	79.8	37.1	1.2	496	6.5		
GUNZ	e P	Z	23:55:55.9	79.9	37.1	1.1	572	6.6		
WERN	e P	Z	23:55:56.2	79.9	37.1	1.2	552	6.6		
MOX	e P	Z	23:55:55.9	79.9	36.7	1.1	490	6.5		
IBBN	e P	Z	23:55:56.5	80.0	34.2	1.1	1144	6.9		
UBBA	e P	Z	23:55:58.2	80.4	35.6	1.7	601	6.6		
GEC2	e P	Z	23:55:59.1	80.5	37.9	1.2	316	6.4		
WET	e P	Z	23:55:59.9	80.6	37.4	1.3	635	6.7		
GRA1	e P	Z	23:56:01.4	80.8	36.3	1.1	1328	7.1		
BUG	e P	Z	23:56:00.8	80.9	33.7	1.3	790	6.8		
TNS	e P	Z	23:56:04.0	81.4	34.5	1.3	959	6.9		
RJOB	e P	Z	23:56:06.1	81.8	37.2	1.2	882	6.9		
FUR	e P	Z	23:56:07.7	82.1	36.2	1.1	1012	7.0		
STU	e P	Z	23:56:08.9	82.4	34.8	0.9	478	6.7		

WLF	e P	Z	23:56:10.9	82.7	32.8	1.2	382	6.5	
BFO	e P	Z	23:56:12.4	83.1	34.2	1.4	1290	7.0	
BSEG	e S	T	00:05:43.7	77.8	36.1				
CLL	e S	T	00:05:54.2	78.9	37.7				
NRDL	e S	T	00:05:56.2	79.0	35.8				
CLZ	e S	T	00:06:01.1	79.4	35.9				
TANN	e S	T	00:06:05.2	79.8	37.2				
MOX	e S	T	00:06:06.3	79.9	36.7				
IBBN	e S	T	00:06:05.7	80.0	34.2				
UBBA	e S	T	00:06:11.1	80.4	35.6				
GEC2	e S	T	00:06:13.2	80.5	37.9				
WET	e S	T	00:06:14.5	80.6	37.4				
GRA1	e S	T	00:06:16.5	80.8	36.3				
	e PKKPbc	Z	00:14:36.4						
	e PKPPKP	Z	00:22:32.5						
	e L	Z	00:35:02.6			18.7	229094	7.6	
BUG	e S	T	00:06:15.9	80.9	33.7				
TNS	e S	T	00:06:22.9	81.4	34.5				
RJOB	e S	T	00:06:27.0	81.8	37.2				
FUR	e S	T	00:06:29.1	82.1	36.2				
STU	e S	T	00:06:32.0	82.4	34.8				
WLF	e S	T	00:06:36.3	82.7	32.8				
BFO	e S	T	00:06:39.1	83.1	34.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	00:07:36.9	41.020N	139.120E	33.0N	5.0			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	00:19:25.5	76.5	38.8	1.7	16	4.9		
NRDL	e P	Z	00:19:27.8	76.6	37.1	2.2	63	5.4		
MOX	e P	Z	00:19:33.6	77.5	37.8	1.6	16	4.9		
WET	e P	Z	00:19:36.5	78.2	38.4	1.9	15	4.7		
GRA1	e P	Z	00:19:36.5	78.4	37.4	1.6	32	5.1		
RJOB	e P	Z	00:19:42.2	79.3	38.2	2.0	38	5.0		
FUR	e P	Z	00:19:44.5	79.6	37.3	1.9	80	5.3		
BFO	e P	Z	00:19:49.2	80.6	35.4	2.0	31	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	00:20:20.9	40.170N	140.470E	33.0N	5.5			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:32:11.0	76.6	36.9	1.1	62	5.6		
CLL	e P	Z	00:32:16.5	77.7	38.4	1.3	73	5.7		

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	00:32:17.7	77.9	36.6	1.0	30	5.4		
CLZ	e P	Z	00:32:20.2	78.3	36.7	1.6	128	5.7		
TANN	e P	Z	00:32:22.3	78.6	37.9	1.2	23	5.1		
MOX	e P	Z	00:32:22.6	78.8	37.4	1.7	85	5.5		
IBBN	e P	Z	00:32:23.1	78.8	34.9	0.9	56	5.6		
UBBA	e P	Z	00:32:25.2	79.2	36.3	1.5	48	5.2		
GEC2	e P	Z	00:32:25.6	79.4	38.5	1.2	30	5.1		
WET	e P	Z	00:32:26.5	79.5	38.0	1.5	70	5.4		
GRA1	e P	Z	00:32:27.8	79.7	37.0	1.3	145	5.7		
BUG	e P	Z	00:32:27.3	79.7	34.5	1.0	33	5.2		
TNS	e P	Z	00:32:31.3	80.3	35.2	1.6	96	5.6		
RJOB	e P	Z	00:32:32.9	80.6	37.8	1.0	67	5.6		
FUR	e P	Z	00:32:34.0	80.9	36.9	1.1	99	5.8		
STU	e P	Z	00:32:35.7	81.2	35.5	0.8	53	5.7		
WLF	e P	Z	00:32:38.3	81.6	33.5	1.0	21	5.2		
BFO	e P	Z	00:32:39.2	81.9	34.9	2.1	318	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	00:52:47.7	39.840N	141.550E	33.0N	5.0			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:04:41.7	77.3	36.3	1.9	52	5.4		
CLL	e P	Z	01:04:47.3	78.4	37.8	1.1	12	4.9		
TANN	e P	Z	01:04:52.6	79.3	37.3	2.3	25	4.7		
MOX	e P	Z	01:04:52.7	79.5	36.8	1.0	8	4.6		
UBBA	e P	Z	01:04:55.4	79.9	35.7	2.4	59	5.1		
WET	e P	Z	01:04:57.1	80.2	37.5	3.2	96	5.2		
GRA1	e P	Z	01:04:58.5	80.4	36.4	0.9	20	5.1		
RJOB	e P	Z	01:05:03.4	81.3	37.3	1.3	14	4.9		
BFO	e P	Z	01:05:09.8	82.6	34.4	1.8	36	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	01:00:24.2	39.620N	140.060E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:12:15.4	77.0	37.4	0.9	8	4.8		
CLL	e P	Z	01:12:20.7	78.0	38.9	0.8	8	4.9		
CLZ	e P	Z	01:12:24.4	78.6	37.2	0.9	8	4.7		
MOX	e P	Z	01:12:26.1	79.1	37.9	2.0	29	5.0		
GEC2	e P	Z	01:12:29.7	79.7	39.1	1.1	4	4.2		
GRA1	e P	Z	01:12:32.2	80.0	37.5	0.9	12	4.8		
WLF	e P	Z	01:12:41.4	81.9	34.1	1.2	12	4.9		
BFO	e P	Z	01:12:44.2	82.2	35.5	0.8	6	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	01:39:51.5	38.720N	140.200E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:51:47.2	77.8	37.8	1.2	16	5.0		
CLL	e P	Z	01:51:52.5	78.9	39.3	1.0	7	4.6		
NRDL	e P	Z	01:51:55.0	79.0	37.4	1.1	8	4.7		
CLZ	e P	Z	01:51:56.4	79.4	37.6	1.0	8	4.6		
MOX	e P	Z	01:51:59.1	79.9	38.3	1.7	21	4.8		
GEC2	e P	Z	01:52:01.6	80.5	39.5	1.1	5	4.4		
WET	e P	Z	01:52:02.8	80.6	39.0	1.5	14	4.8		
GRA1	e P	Z	01:52:03.9	80.8	37.9	1.0	17	5.0		
RJOB	e P	Z	01:52:08.8	81.7	38.8	1.0	7	4.8		
FUR	e P	Z	01:52:10.0	82.0	37.8	1.1	21	5.2		
STU	e P	Z	01:52:11.7	82.4	36.4	0.7	7	5.0		
BFO	e P	Z	01:52:15.2	83.0	35.8	1.2	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	02:35:24.7	39.946N	141.649E	33.0N	4.6			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:47:32.9	80.3	36.3	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	03:10:50.4	41.420N	139.400E	33.0N	5.1			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	03:22:30.9	75.1	37.0	1.5	35	5.2		
CLL	e P	Z	03:22:36.1	76.2	38.4	1.2	16	5.0		
NRDL	e P	Z	03:22:37.6	76.4	36.7	2.0	56	5.4		
CLZ	e P	Z	03:22:40.4	76.8	36.8	1.5	36	5.3		
TANN	e P	Z	03:22:41.6	77.1	37.9	1.6	13	4.8		
MOX	e P	Z	03:22:42.6	77.3	37.4	1.3	16	5.0		
ROTZ	e P	Z	03:22:45.5	77.7	37.7	1.5	23	5.1		
GEC2	e P	Z	03:22:45.7	77.9	38.5	1.2	7	4.7		
WET	e P	Z	03:22:46.5	78.0	38.0	1.4	16	5.0		
GRA1	e P	Z	03:22:47.7	78.2	37.0	1.2	31	5.2		
BUG	e P	Z	03:22:47.6	78.2	34.6	1.2	16	4.9		
TNS	e P	Z	03:22:50.9	78.8	35.3	1.2	24	5.1		

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb
RJOB	e P	Z	03:22:53.1	79.1	37.8	1.2	22	5.1
FUR	e P	Z	03:22:54.0	79.4	36.9	1.3	28	5.0
BFO	e P	Z	03:22:59.9	80.4	35.0	1.1	22	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	03:14:17.7	40.497N	140.291E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:26:20.5	79.3	36.9	1.7	21	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	03:27:47.5	40.855N	140.351E	33.0N	5.1			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	03:39:31.8	76.0	36.6	1.3	38	5.4		
CLL	e P	Z	03:39:37.3	77.1	38.1	1.0	21	5.2		
NRDL	e P	Z	03:39:38.3	77.2	36.3	1.1	14	5.0		
CLZ	e P	Z	03:39:41.1	77.6	36.4	1.3	42	5.4		
TANN	e P	Z	03:39:42.8	78.0	37.6	1.5	15	4.9		
MOX	e P	Z	03:39:43.4	78.1	37.1	1.3	20	5.1		
IBBN	e P	Z	03:39:43.6	78.2	34.7	1.4	47	5.3		
UBBA	e P	Z	03:39:45.8	78.6	36.0	1.3	15	4.9		
ROTZ	e P	Z	03:39:46.5	78.6	37.4	1.5	32	5.1		
GEC2	e P	Z	03:39:46.5	78.7	38.2	1.6	18	4.9		
WET	e P	Z	03:39:47.5	78.8	37.7	1.3	19	5.0		
GRA1	e P	Z	03:39:48.8	79.0	36.7	1.5	71	5.5		
BUG	e P	Z	03:39:48.6	79.1	34.2	1.2	24	5.1		
TNS	e P	Z	03:39:51.6	79.7	34.9	1.1	31	5.1		
RJOB	e P	Z	03:39:53.6	80.0	37.5	1.4	28	5.0		
FUR	e P	Z	03:39:54.9	80.2	36.6	1.1	30	5.2		
STU	e P	Z	03:39:56.3	80.6	35.3	1.2	29	5.2		
WLF	e P	Z	03:40:00.0	80.9	33.3	1.7	35	5.1		
BFO	e P	Z	03:39:59.8	81.3	34.6	1.1	34	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	04:11: 1.4	41.041N	141.207E	33.0N	4.5			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:23:03.6	79.2	36.0	0.9	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	05:39:21.8	40.945N	140.246E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	05:51:11.1	77.0	38.1	1.4	10	4.8		
CLZ	e P	Z	05:51:15.1	77.5	36.4	1.5	15	4.9		
MOX	e P	Z	05:51:16.8	78.0	37.1	2.2	33	5.1		
GEC2	e P	Z	05:51:20.0	78.6	38.2	0.9	4	4.4		
WET	e P	Z	05:51:21.2	78.7	37.7	1.1	4	4.4		
GRA1	e P	Z	05:51:22.5	78.9	36.7	1.2	19	5.0		
TNS	e P	Z	05:51:25.8	79.5	34.9	1.5	21	4.8		
BFO	e P	Z	05:51:33.9	81.1	34.7	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	06:47:16.2	44.654N	129.525W	33.0N	4.4	4.9		SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:59:20.8	79.7	332.8	1.2	6	4.4		
	e L	Z	07:36:39.8			18.0	459		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	08:34:14.8	38.876N	139.951E	33.0N	4.5			SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:46:24.4	80.6	38.0	1.2	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	12:48:36.5	40.402N	142.347E	33.0N	4.8			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:00:44.0	80.2	35.6	1.3	14	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	14:22:42.6	40.780N	139.504E	33.0N	4.5			SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:34:42.4	78.8	37.3	1.3	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	14:42:39.5	39.833N	141.734E	33.0N	5.0	4.3		SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:54:31.5	77.4	36.2	1.0	25	5.3		
CLL	e P	Z	14:54:37.1	78.5	37.7	0.9	17	5.1		
NRDL	e P	Z	14:54:38.0	78.6	35.8	0.9	6	4.6		
CLZ	e P	Z	14:54:40.7	79.0	35.9	0.9	16	5.1		
TANN	e P	Z	14:54:42.5	79.4	37.2	0.9	5	4.4		
MOX	e P	Z	14:54:43.2	79.5	36.7	0.9	8	4.7		
IBBN	e P	Z	14:54:43.3	79.6	34.2	0.9	25	5.1		
UBBA	e P	Z	14:54:45.4	80.0	35.6	0.9	4	4.3		
GEC2	e P	Z	14:54:46.3	80.2	37.9	1.0	8	4.6		
WET	e P	Z	14:54:47.3	80.3	37.4	1.1	13	4.9		
GRA1	e P	Z	14:54:48.4	80.5	36.3	0.9	27	5.3		
	e L	Z	15:33:44.0			19.4	138		4.3	
BUG	e P	Z	14:54:48.2	80.5	33.8	0.7	16	5.2		
TNS	e P	Z	14:54:51.5	81.1	34.5	1.0	14	4.9		
RJOB	e P	Z	14:54:53.6	81.4	37.2	0.9	19	5.2		
FUR	e P	Z	14:54:54.5	81.7	36.2	0.9	30	5.4		
STU	e P	Z	14:54:56.3	82.0	34.8	0.8	23	5.4		
WLF	e P	Z	14:54:58.5	82.3	32.8	1.0	7	4.9		
BFO	e P	Z	14:54:59.4	82.7	34.2	0.9	16	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	15:19:50.7	39.786N	71.849E	33.0N	4.3			SZGRF

Tajikistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:27:46.9	43.0	79.3	1.2	7	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	21:41:22.5	39.527N	71.908E	33.0N	4.3			SZGRF

Tajikistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:49:20.2	43.1	79.6	1.2	8	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/14	22:04: 6.6	21.940S	178.660W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	22:22:38.7	147.3	15.5					
	e PKPab	Z	22:22:42.7							
NRDL	e PKPbc	Z	22:22:42.2	148.7	15.8					
CLL	e PKPbc	Z	22:22:43.5	149.3	21.5					
	e PKPab	Z	22:22:50.6							
CLZ	e PKPbc	Z	22:22:43.9	149.3	16.6					
BUG	e PKPbc	Z	22:22:45.4	150.1	11.1					
MOX	e PKPbc	Z	22:22:45.6	150.2	19.4					
	e PKPab	Z	22:22:54.4							
TANN	e PKPbc	Z	22:22:46.0	150.2	21.1					
	e PKPab	Z	22:22:55.2							
UBBA	e PKPbc	Z	22:22:45.8	150.3	16.4					
TNS	e PKPbc	Z	22:22:48.3	151.2	13.8					
	e PKPab	Z	22:22:58.8							
GRA1	e PKPbc	Z	22:22:48.5	151.2	19.3					
	e PKPab	Z	22:22:59.2							
WET	e PKPbc	Z	22:22:48.3	151.3	22.7					
	e PKPab	Z	22:22:59.7							
GEC2	e PKPbc	Z	22:22:48.2	151.4	24.5					
	e PKPab	Z	22:22:59.9							
WLF	e PKPbc	Z	22:22:50.5	152.0	9.5					
STU	e PKPbc	Z	22:22:51.3	152.5	15.9					
FUR	e PKPbc	Z	22:22:51.0	152.6	20.3					
	e PKPab	Z	22:23:05.1							
RJOB	e PKPbc	Z	22:22:51.0	152.6	23.6					
	e PKPab	Z	22:23:05.3							
BFO	e PKPbc	Z	22:22:52.1	153.0	14.4					
	e PKPab	Z	22:23:06.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	00:11:27.8	31.589N	103.782E	33.0N	4.7			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:22:24.1	68.0	66.6	1.1	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	01:13: 8.9	18.360S	177.310W	600.0				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:31:34.9	143.9	12.4					
	e SKPdf	Z	01:34:19.6							
	e SS	T	01:52:44.0							
NRDL	e PKPbc	Z	01:31:39.8	145.4	12.5					
	e SKPdf	Z	01:34:22.9							
	e SS	T	01:52:57.9							
IBBN	e PKPbc	Z	01:31:41.7	145.8	8.6					
	e SKPdf	Z	01:34:24.9							
	e SS	T	01:53:03.6							
CLZ	e PKPbc	Z	01:31:41.9	146.0	13.1					
	e pPKPbc	Z	01:34:03.7							
	e SS	T	01:53:05.3							
CLL	e PKPbc	Z	01:31:41.4	146.1	17.7					
	e pPKPbc	Z	01:34:04.4							
	e SKPdf	Z	01:34:24.6							
	e SS	T	01:53:04.1							
BUG	e PKPbc	Z	01:31:44.3	146.7	7.9					
	e SKPdf	Z	01:34:26.8							
	e SS	T	01:53:14.9							
MOX	e PKPbc	Z	01:31:44.1	146.9	15.7					
	e PKPab	Z	01:31:46.5							
	e SKPdf	Z	01:34:27.1							
	e SS	T	01:53:14.9							
TANN	e PKPbc	Z	01:31:44.6	147.0	17.2					
	e PKPab	Z	01:31:47.2							
	e pPKPbc	Z	01:34:06.7							
	e SS	T	01:53:15.5							
UBBA	e PKPbc	Z	01:31:44.4	147.0	12.8					
	e PKPab	Z	01:31:47.8							
	e SS	T	01:53:16.3							
ROTZ	e PKPbc	Z	01:31:46.6	147.7	17.1					
	e pPKPbc	Z	01:34:06.7							
	e SS	T	01:53:23.7							
TNS	e PKPbc	Z	01:31:47.2	147.8	10.3					
	e PKPab	Z	01:31:51.1							
	e pPKPbc	Z	01:34:07.6							
	e SS	T	01:53:26.0							
GRA1	e PKPbc	Z	01:31:47.4	147.9	15.4					
	e PKPab	Z	01:31:51.3							
	e pPKPbc	Z	01:34:04.8							
	e SS	T	01:53:26.0							
WET	e PKPbc	Z	01:31:47.3	148.1	18.5					
	e pPKPbc	Z	01:34:06.1							
	e SS	T	01:53:28.7							
GEC2	e PKPbc	Z	01:31:47.7	148.2	20.1					
	e pPKPbc	Z	01:34:07.0							

	e SS	T	01:53:29.4			
WLF	e PKPbc	Z	01:31:49.8	148.6	6.3	
	e PKPab	Z	01:31:54.5			
	e SS	T	01:53:36.3			
STU	e PKPbc	Z	01:31:50.9	149.1	12.1	
	e PKPab	Z	01:31:55.6			
	e pPKPbc	Z	01:34:09.0			
	e SS	T	01:53:40.1			
FUR	e PKPbc	Z	01:31:50.9	149.4	16.2	
	e PKPab	Z	01:31:55.9			
	e SS	T	01:53:41.4			
RJOB	e PKPbc	Z	01:31:51.2	149.5	19.1	
	e pPKPbc	Z	01:34:10.3			
	e SS	T	01:53:44.5			
BFO	e PKPbc	Z	01:31:51.7	149.7	10.6	
	e PKPab	Z	01:31:57.1			
	e pPKPbc	Z	01:34:10.0			
	e SS	T	01:53:46.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	02:59:46.3	35.100N	27.700E	20.0	3.9			GSRC

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	03:03:45.8	16.8	133.3	1.5	7	3.6		
GEC2	e P	Z	03:03:47.0	17.2	137.9	1.1	10	3.9		
WET	e P	Z	03:03:53.1	17.8	136.7					
ROTZ	e P	Z	03:04:01.8	18.5	136.5	1.7	10	3.8		
GRA1	e P	Z	03:04:06.6	18.9	134.3	0.9	7	3.9		
BFO	e P	Z	03:04:17.6	19.5	125.6	1.3	8	3.8		
TNS	e P	Z	03:04:27.0	20.6	129.9	0.7	20	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	03:27:12.3	29.728N	82.374E	33.0N	4.6			SZGRF

Nepal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:36:47.8	56.0	82.6	1.2	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	03:30: 9.7	40.034N	141.602E	33.0N	4.5			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:42:17.4	80.2	36.3	1.0	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	08:37:18.4	36.400S	107.400W	10.0		5.4		NEIC

Southern East Pacific Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e SSS	R	09:21:35.1	132.5	259.6					
TNS	e SSS	R	09:21:42.2	132.9	261.4					
STU	e SSS	R	09:21:43.5	133.1	260.5					
UBBA	e SSS	R	09:21:56.1	133.9	263.0					
NRDL	e SSS	R	09:22:02.6	134.2	264.7					
CLZ	e SSS	R	09:22:03.5	134.3	264.2					
FUR	e SSS	R	09:22:03.7	134.4	261.3					
GRA1	e PKPdf	Z	08:56:35.2	134.6	262.8					
	e SSS	R	09:22:05.6							
	e L	Z	09:49:33.0			21.3	766		5.4	
MOX	e SSS	R	09:22:11.9	134.9	264.0					
ROTZ	e SSS	R	09:22:15.4	135.2	263.5					
TANN	e SSS	R	09:22:19.2	135.5	264.3					
WET	e SSS	R	09:22:20.5	135.6	263.3					
CLL	e SSS	R	09:22:25.1	135.9	265.6					
GEC2	e SSS	R	09:22:27.0	136.1	263.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	14:15:15.9	15.940S	173.825W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	14:34:45.3	144.2	11.3					
MOX	e PKPbc	Z	14:34:48.5	145.0	9.2					
WERD	e PKPbc	Z	14:34:48.8	145.1	10.4					
TANN	e PKPbc	Z	14:34:49.4	145.2	10.6					
GUNZ	e PKPbc	Z	14:34:49.0	145.2	10.4					
GRA1	e PKPbc	Z	14:34:51.8	146.0	8.7					
WLF	e PKPbc	Z	14:34:53.0	146.3	360.0					
GEC2	e PKPbc	Z	14:34:53.3	146.5	13.2					
BFO	e PKPbc	Z	14:34:55.8	147.6	3.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	17:36:23.3	39.011N	140.969E	33.0N	4.5			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:48:34.4	80.9	37.2	1.1	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/15	21:03:51.9	48.065N	155.157E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:15:44.2	77.4	23.8	0.8	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/16	00:21:26.4	57.120N	162.320E	33.0N	4.8			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:32:16.2	66.6	16.1	1.2	13	5.0		
IBBN	e P	Z	00:32:29.2	68.6	14.5	0.9	11	5.1		
CLZ	e P	Z	00:32:29.4	68.6	15.9	1.0	6	4.8		
CLL	e P	Z	00:32:29.0	68.7	17.3	1.2	10	4.9		
MOX	e P	Z	00:32:34.5	69.6	16.5	1.0	5	4.6		
TANN	e P	Z	00:32:35.0	69.6	16.9	0.8	3	4.5		
ROTZ	e P	Z	00:32:39.4	70.3	16.7	0.8	4	4.5		
GRA1	e P	Z	00:32:40.7	70.6	16.2	1.0	14	5.0		
WET	e P	Z	00:32:42.4	70.8	17.0	1.1	7	4.7		
GEC2	e P	Z	00:32:42.9	70.9	17.4	0.9	4	4.6		
STU	e P	Z	00:32:48.3	71.8	15.0	0.7	14	5.2		
RJOB	e P	Z	00:32:50.5	72.1	16.8	0.9	8	4.9		
BFO	e P	Z	00:32:51.2	72.4	14.5	1.2	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/16	06:34:58.7	26.529S	171.095E	38.5				SZGRF

Norfolk Island, Australia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	06:54:43.1	149.1	35.0					
CLL	e PKPbc	Z	06:54:45.5	150.2	42.2					
	e pPKPbc	Z	06:54:55.6							
NRDL	e PKPbc	Z	06:54:45.9	150.4	36.1					
CLZ	e PKPbc	Z	06:54:47.2	150.8	37.3					
	e pPKPbc	Z	06:54:58.0							
TANN	e PKPbc	Z	06:54:47.6	151.1	42.4					
	e pPKPbc	Z	06:54:59.2							

MOX	e PKPbc	Z	06:54:47.6	151.2	40.7
	e pPKPbc	Z	06:54:59.8		
IBBN	e PKPbc	Z	06:54:48.4	151.3	32.3
	e pPKPbc	Z	06:55:00.2		
GEC2	e PKPbc	Z	06:54:48.7	151.6	46.4
ROTZ	e PKPbc	Z	06:54:48.9	151.7	42.7
WET	e PKPbc	Z	06:54:49.6	151.8	44.6
GRA1	e PKPbc	Z	06:54:50.1	152.1	41.2
RJOB	e PKPbc	Z	06:54:51.1	152.8	46.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/16	10:17:51.6	49.300S	116.500E	10.0				NEIC

Western Indian-Antarctic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	10:37:07.8	133.6	119.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/16	14:14:56.1	40.700N	139.140E	33.0N	5.0	4.8		SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	14:26:44.9	76.7	39.0	1.4	20	5.0		
CLZ	e P	Z	14:26:49.2	77.3	37.3	1.6	41	5.3		
WERN	e P	Z	14:26:51.8	77.8	38.4					
NKC	e P	Z	14:26:51.5	77.8	38.5					
MOX	e P	Z	14:26:51.5	77.8	38.0	1.4	15	4.9		
ROTZ	e P	Z	14:26:54.2	78.3	38.2	1.8	35	5.1		
UBBA	e P	Z	14:26:53.9	78.3	36.9	1.5	14	4.8		
GEC2	e P	Z	14:26:53.8	78.4	39.1	1.4	9	4.6		
WET	e P	Z	14:26:54.9	78.5	38.6	1.4	14	4.8		
GRA1	e P	Z	14:26:56.7	78.7	37.6	1.5	49	5.3		
	e L	Z	15:05:41.3			18.6	433		4.8	
RJOB	e P	Z	14:27:02.1	79.6	38.4	0.9	8	4.7		
BFO	e P	Z	14:27:08.0	80.9	35.5	1.5	39	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/16	19:05:15.6	40.909N	141.475E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	19:17:02.1	76.3	35.8	1.0	12	4.9		
BRG	e P	Z	19:17:07.7	77.4	37.9	0.8	3	4.5		

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	19:17:07.1	77.5	37.3	0.8	6	4.7		
NEUB	e P	Z	19:17:11.0	78.0	36.5					
CLZ	e P	Z	19:17:11.4	78.0	35.6	0.9	7	4.8		
GUNZ	e P	Z	19:17:13.4	78.5	36.7					
WERN	e P	Z	19:17:13.7	78.5	36.8					
MOX	e P	Z	19:17:13.9	78.5	36.3	0.9	5	4.7		
NKC	e P	Z	19:17:13.9	78.5	36.8					
ROTZ	e P	Z	19:17:16.2	79.0	36.6	1.0	5	4.6		
GEC2	e P	Z	19:17:16.7	79.1	37.5	0.7	2	4.4		
WET	e P	Z	19:17:17.6	79.2	37.0	0.9	4	4.5		
GRA1	e P	Z	19:17:19.0	79.4	35.9	1.0	17	5.1		
RJOB	e P	Z	19:17:24.0	80.4	36.8	0.9	7	4.7		
FUR	e P	Z	19:17:25.3	80.6	35.8	0.8	12	5.0		
STU	e P	Z	19:17:27.0	80.9	34.5	0.5	11	5.0		
BFO	e P	Z	19:17:31.3	81.6	33.9	1.3	12	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/16	20:20:21.0	43.714S	43.769E	22.4	5.4	4.5		SZGRF

Prince Edward Islands, South Africa, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:33:54.0	97.6	156.9	1.7	35	5.7		
	e pP	Z	20:34:00.5							
	e L	Z	21:48:45.3			20.8	162		4.5	
TANN	e P	Z	20:33:55.9	98.0	157.7	1.3	5	5.1		
BRG	e P	Z	20:33:55.9	98.1	158.7	1.6	12	5.4		
MOX	e P	Z	20:33:57.7	98.4	157.1	2.0	11	5.3		
CLL	e P	Z	20:33:58.9	98.7	158.0	2.0	28	5.7		
UBBA	e P	Z	20:34:01.2	99.0	156.0	1.6	13	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	23:28: 9.8	55.320N	161.690W	33.0N	5.1	3.9		SZGRF

Alaska Peninsula, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:39:24.4	70.5	355.2	1.0	21	5.2		
IBBN	e P	Z	23:39:33.2	72.0	353.7	1.3	41	5.4		
RUE	e P	Z	23:39:34.1	72.1	357.3	1.2	43	5.4		
CLZ	e P	Z	23:39:37.1	72.6	355.3	0.9	18	5.2		
BUG	e P	Z	23:39:37.8	72.8	353.5	0.9	21	5.2		
CLL	e P	Z	23:39:40.1	73.3	356.8	0.7	12	5.0		
BRG	e P	Z	23:39:43.0	73.7	357.4	1.0	13	4.9		
MOX	e P	Z	23:39:44.0	73.9	356.0	1.2	25	5.1		
TNS	e P	Z	23:39:45.4	74.1	354.2	1.1	33	5.3		
TANN	e P	Z	23:39:45.6	74.2	356.5	0.6	4	4.6		

WLF	e	P	Z	23:39:48.0	74.5	352.9	1.1	23	5.1
GRA1	e	P	Z	23:39:49.8	74.8	355.8	1.2	27	5.1
WET	e	P	Z	23:39:53.3	75.4	356.8	1.3	13	4.9
STU	e	P	Z	23:39:54.2	75.6	354.7	0.8	12	5.1
GEC2	e	P	Z	23:39:54.8	75.8	357.3	0.8	8	4.9
BFO	e	P	Z	23:39:56.0	76.0	354.2	0.7	6	4.8
FUR	e	P	Z	23:39:58.6	76.3	355.9	0.8	15	5.2
RJOB	e	P	Z	23:40:01.3	76.8	356.8	0.8	21	5.3
GRA1	e	L	Z	00:15:37.3	74.8	355.8	20.3	59	3.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	00:19:21.5	20.210S	169.310E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	PKPbc	Z 00:38:55.8	145.3	43.0					
GRA1	e	PKPbc	Z 00:38:56.6	145.8	38.5					
TNS	e	PKPbc	Z 00:38:58.6	146.4	33.8					
RJOB	e	PKPbc	Z 00:38:59.3	146.6	42.7					
FUR	e	PKPbc	Z 00:39:00.7	146.9	40.0					
STU	e	PKPbc	Z 00:39:00.5	147.3	36.2					
WLF	e	PKPbc	Z 00:39:03.0	147.6	30.5					
BFO	e	PKPbc	Z 00:39:03.3	148.0	35.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	04:51:27.5	34.834N	134.363E	32.7	4.6			SZGRF

Near south coast of western Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	P	Z 05:03:32.2	79.7	45.4	0.9	5	4.5		
CLZ	e	P	Z 05:03:36.1	80.5	43.6	1.3	13	4.8		
WERD	e	P	Z 05:03:37.0	80.6	44.8	1.8	14	4.7		
GUNZ	e	P	Z 05:03:37.2	80.7	44.8	0.7	3	4.5		
WERN	e	P	Z 05:03:38.3	80.7	44.9	1.2	6	4.5		
GEC2	e	P	Z 05:03:39.3	81.1	45.6	1.1	4	4.4		
ROTZ	e	P	Z 05:03:40.2	81.1	44.7	1.5	16	4.8		
GRA1	e	P	Z 05:03:42.7	81.6	44.0	1.0	8	4.8		
	e	pP	Z 05:03:52.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	05:14:34.3	31.855N	104.902E	12.8	5.0			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:25:22.6	66.4	67.9	1.0	8	4.9		
BSEG	e P	Z	05:25:29.0	67.3	66.6	0.8	12	5.1		
GEC2	e P	Z	05:25:28.6	67.3	67.0	1.1	8	4.9		
TANN	e P	Z	05:25:29.4	67.4	66.8	1.1	9	4.9		
WERD	e P	Z	05:25:29.8	67.5	66.7	1.1	8	4.9		
NKC	e P	Z	05:25:30.0	67.5	66.7	1.1	9	4.9		
GUNZ	e P	Z	05:25:30.1	67.5	66.7	0.9	10	5.0		
WERN	e P	Z	05:25:30.2	67.5	66.7	0.9	8	4.9		
ROTZ	e P	Z	05:25:32.3	67.8	66.4	1.0	12	5.1		
NRDL	e P	Z	05:25:33.5	67.9	66.0	1.3	15	5.1		
CLZ	e P	Z	05:25:33.8	68.1	65.9	0.9	12	5.1		
GRA1	e P	Z	05:25:36.3	68.5	65.7	0.8	15	5.3		
	e pP	Z	05:25:40.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	05:52: 5.2	34.500N	102.710E	33.0N	4.9			SZGRF

Gansu, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:02:31.7	63.2	67.4	0.7	4	4.7		
BSEG	e P	Z	06:02:37.3	64.0	66.3	0.8	12	5.2		
GEC2	e P	Z	06:02:37.9	64.2	66.3	1.1	6	4.7		
TANN	e P	Z	06:02:38.5	64.3	66.2	1.0	5	4.7		
GUNZ	e P	Z	06:02:39.1	64.4	66.1	1.4	10	4.9		
PLN	e P	Z	06:02:39.3	64.4	66.0	1.2	26	5.3		
MOX	e P	Z	06:02:40.9	64.7	65.7	0.9	4	4.6		
ROTZ	e P	Z	06:02:41.6	64.7	65.7	1.1	9	4.9		
NRDL	e P	Z	06:02:41.9	64.8	65.5	1.0	12	5.1		
CLZ	e P	Z	06:02:42.5	64.9	65.4	1.2	14	5.1		
GRA1	e P	Z	06:02:47.7	65.3	65.1	1.1	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	17:26:26.9	54.870N	127.120E	33.0N	4.9	4.8		SZGRF

Southeastern Siberia, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:36:28.5	59.4	36.6	1.6	24	5.0		
BRG	e P	Z	17:36:35.9	60.6	37.4	1.4	13	4.6		
CLL	e P	Z	17:36:36.0	60.6	37.1	0.9	14	4.8		
NRDL	e P	Z	17:36:38.0	60.7	36.0	1.7	31	4.9		
CLZ	e P	Z	17:36:40.4	61.1	35.9	1.3	17	4.7		
TANN	e P	Z	17:36:42.6	61.5	36.5	1.1	6	4.7		
MOX	e P	Z	17:36:43.5	61.6	36.2	1.2	15	5.1		
ROTZ	e P	Z	17:36:47.0	62.1	36.2	1.6	22	5.1		

GEC2	e P	Z	17:36:47.8	62.3	36.6	1.2	12	4.9	
WET	e P	Z	17:36:48.9	62.4	36.3	1.3	17	5.0	
GRA1	e P	Z	17:36:49.9	62.5	35.7	1.8	42	5.3	
	e L	Z	18:07:32.9			19.6	653		4.8
TNS	e P	Z	17:36:53.7	63.1	34.5	1.5	20	5.0	
RJOB	e P	Z	17:36:56.6	63.5	35.9	1.0	10	5.0	
BFO	e P	Z	17:37:03.7	64.7	33.9	1.5	13	4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	17:42:17.9	6.390N	82.970W	33.0N	5.6	5.5		SZGRF

South of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	17:54:49.2	84.6	273.5	1.4	108	5.9		
BUG	e P	Z	17:54:51.2	85.2	274.2	1.3	81	5.8		
HLG	e P	Z	17:54:53.0	85.3	274.4	1.5	241	6.2		
IBBN	e P	Z	17:54:53.3	85.4	274.5	1.7	172	6.0		
TNS	e P	Z	17:54:55.0	86.0	275.2	1.7	176	5.9		
BFO	e P	Z	17:54:55.7	86.1	275.2	1.3	28	5.2		
STU	e P	Z	17:54:58.5	86.6	275.8	1.4	83	5.7		
BSEG	e P	Z	17:54:59.1	86.8	276.4	1.5	87	5.7		
NRDL	e P	Z	17:54:59.8	86.8	276.3	1.6	102	5.7		
UBBA	e P	Z	17:55:00.4	86.9	276.3	1.7	58	5.4		
CLZ	e P	Z	17:55:00.8	87.0	276.6	1.4	100	5.8		
GRA1	e P	Z	17:55:04.9	87.8	277.3	1.5	84	5.9		
	e S	R	18:05:44.5							
	e L	Z	18:28:20.9			21.8	1904		5.5	
MOX	e P	Z	17:55:05.0	88.0	277.6	1.8	63	5.6		
ROTZ	e P	Z	17:55:06.9	88.5	278.1	1.4	21	5.2		
TANN	e P	Z	17:55:07.9	88.5	278.2	1.2	35	5.5		
CLL	e P	Z	17:55:08.4	88.7	278.6	1.3	38	5.5		
WET	e P	Z	17:55:09.8	89.0	278.6	1.2	37	5.5		
RUE	e P	Z	17:55:10.8	89.0	279.2	1.2	29	5.4		
RJOB	e P	Z	17:55:11.3	89.1	278.6	1.4	27	5.3		
BRG	e P	Z	17:55:11.8	89.4	279.4	1.6	32	5.3		
GEC2	e P	Z	17:55:12.9	89.6	279.2	1.2	21	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/17	19:48:10.7	46.375N	7.372E	10.0G			3.5	SZGRF

Switzerland

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	19:48:42.8	2.1	198.7					3.1
	e Sg	N	19:49:14.9							
STU	e Pn	Z	19:48:50.6	2.7	207.8					3.5

	e Sg	N	19:49:36.8				
FUR	e Pn	Z	19:49:00.0	3.2	237.4		3.8
WLF	e Pn	Z	19:49:03.1	3.4	165.6		3.4
	e Sn	E	19:49:41.2				
TNS	e Pn	Z	19:49:08.3	3.9	190.9		3.6
	e Sn	N	19:49:53.9				
RJOB	e Pn	Z	19:49:11.2	3.9	251.8		3.5
GRA1	e Pg	Z	19:49:26.8	4.2	219.3		3.8
	e Sg	N	19:50:23.1				
WET	e Pn	Z	19:49:18.2	4.6	235.3		3.5
	e Sn	N	19:50:09.9				
GEC2	e Pn	Z	19:49:23.4	4.9	242.3		3.4
TANN	e Pg	Z	19:49:47.9	5.3	221.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	01:58:28.8	37.537N	23.460E	33.0G				SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	02:01:33.5	12.8	138.7	0.6	194			
GEC2	e P	Z	02:01:41.8	13.3	144.4	0.7	74			
FUR	e P	Z	02:01:48.8	13.8	135.6	0.7	154			
WET	e P	Z	02:01:48.3	13.9	142.7	1.0	165			
ROTZ	e P	Z	02:01:58.1	14.7	142.3	0.9	61			
BRG	e P	Z	02:02:03.3	15.0	149.5	0.7	95			
GRA1	e P	Z	02:02:03.9	15.0	139.5	1.2	387			
TANN	e P	Z	02:02:05.2	15.1	144.4	0.9	92			
GUNZ	e P	Z	02:02:06.0	15.1	144.0	0.6	58			
WERD	e P	Z	02:02:07.0	15.2	144.1	0.8	62			
STU	e P	Z	02:02:07.8	15.3	132.1	0.9	170			
BFO	e P	Z	02:02:08.1	15.4	128.9	0.9	71			
MOX	e P	Z	02:02:12.1	15.6	142.7	0.8	64			
CLL	e P	Z	02:02:14.3	15.6	147.7	1.2	250			
UBBA	e P	Z	02:02:23.1	16.4	139.1	1.3	43			
RUE	e P	Z	02:02:24.6	16.4	151.8	0.9	220			
TNS	e P	Z	02:02:26.9	16.6	134.1	0.6	119			
CLZ	e P	Z	02:02:32.2	17.0	142.1	1.0	147			
WLF	e P	Z	02:02:35.4	17.4	127.8	1.0	73			
NRDL	e P	Z	02:02:39.1	17.6	142.8	1.0	62			
BUG	e P	Z	02:02:44.1	18.0	134.3	0.9	80			
RGN	e P	Z	02:02:48.2	18.4	153.7	0.8	209			
IBBN	e P	Z	02:02:48.5	18.4	137.2	1.0	54			
BSEG	e P	Z	02:02:51.6	18.7	145.8	1.1	107			
HLG	e P	Z	02:03:02.8	19.8	141.0	0.7	415			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	05:23:45.4	36.470N	90.100E	33.0N	5.1	5.4		SZGRF

Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:33:10.4	54.4	73.9	1.1	11	4.8		
CLL	e P	Z	05:33:14.3	54.8	73.6	1.5	22	5.0		
GEC2	e P	Z	05:33:16.0	55.1	72.3	1.6	38	5.2		
BSEG	e P	Z	05:33:19.9	55.6	73.5	1.1	27	5.2		
MOX	e P	Z	05:33:20.8	55.8	72.2	1.6	22	5.0		
RJOB	e P	Z	05:33:22.6	56.0	71.1	1.0	9	4.7		
NRDL	e P	Z	05:33:23.7	56.2	72.4	1.3	36	5.3		
CLZ	e P	Z	05:33:23.8	56.2	72.2	1.2	23	5.1		
GRA1	e P	Z	05:33:25.5	56.4	71.4	1.5	53	5.3		
	e PP	Z	05:35:32.0							
	e L	Z	06:00:19.8			18.7	2729		5.4	
TNS	e P	Z	05:33:37.0	57.9	69.9	1.5	40	5.2		
BFO	e P	Z	05:33:41.4	58.6	68.8	1.3	21	5.0		
WLF	e P	Z	05:33:48.9	59.5	68.2	1.4	42	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	05:56:54.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	08:12:17.8	33.330N	91.950E	33.0N	5.2	4.6		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:22:05.9	57.6	75.5	1.0	16	5.0		
CLL	e P	Z	08:22:08.8	58.1	75.1	1.3	20	5.0		
TANN	e P	Z	08:22:13.2	58.6	74.2	1.1	15	4.9		
WET	e P	Z	08:22:14.0	58.7	73.7	1.8	44	5.2		
BSEG	e P	Z	08:22:15.8	59.0	74.8	1.0	26	5.2		
MOX	e P	Z	08:22:16.3	59.1	73.8	1.5	21	5.0		
RJOB	e P	Z	08:22:17.1	59.2	72.9	2.4	95	5.4		
NRDL	e P	Z	08:22:19.3	59.5	73.8	1.5	59	5.4		
CLZ	e P	Z	08:22:19.2	59.5	73.6	1.4	55	5.4		
GRA1	e P	Z	08:22:20.4	59.6	73.0	1.9	110	5.6		
	e PP	Z	08:24:30.4							
	e L	Z	08:50:18.3			19.4	405		4.6	
UBBA	e P	Z	08:22:22.5	60.0	72.8	1.9	48	5.2		
FUR	e P	Z	08:22:23.2	60.0	72.1	1.4	58	5.4		

IBBN	e P	Z	08:22:28.7	60.9	72.1	1.4	38	5.0
TNS	e P	Z	08:22:30.4	61.1	71.4	1.3	28	4.9
STU	e P	Z	08:22:30.4	61.1	71.2	0.3	32	5.6
BUG	e P	Z	08:22:32.5	61.4	71.3	1.0	19	5.3
BFO	e P	Z	08:22:34.7	61.8	70.4	1.4	29	5.3
WLF	e P	Z	08:22:41.6	62.7	69.7	1.5	75	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	09:04:41.3	39.839N	141.511E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:16:49.8	80.4	36.4	1.1	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	10:17:46.1	44.526N	85.232E	33.0N	4.7			SZGRF

Northern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:26:26.5	48.6	66.1	0.9	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	13:24: 3.6	36.441N	1.516E	33.0N				SZGRF

Northern Algeria

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	13:27:15.8	12.9	205.3					
TNS	e P	Z	13:27:35.5	14.7	202.6					
GRA1	e P	Z	13:27:38.8	15.0	211.6	1.2	48			
WET	e P	Z	13:27:39.7	15.2	217.3					
GEC2	e P	Z	13:27:39.6	15.3	220.2					
ROTZ	e P	Z	13:27:41.6	15.4	214.2					
UBBA	e P	Z	13:27:45.7	15.6	206.2					
MOX	e P	Z	13:27:49.1	15.9	210.9					
TANN	e P	Z	13:27:48.8	16.0	213.6					
BRG	e P	Z	13:28:00.6	17.0	216.4					
CLL	e P	Z	13:27:59.3	17.0	213.3					
NRDL	e P	Z	13:28:03.0	17.2	204.0					
BSEG	e P	Z	13:28:18.2	18.5	202.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	17:45:40.6	22.380S	178.830W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:05:21.7	147.7	16.0					
NRDL	e PKPbc	Z	18:05:25.5	149.1	16.3					
	e PKPab	Z	18:05:29.2							
IBBN	e PKPbc	Z	18:05:27.4	149.6	12.1					
CLL	e PKPbc	Z	18:05:26.7	149.6	22.0					
	e PKPab	Z	18:05:31.4							
CLZ	e PKPbc	Z	18:05:27.2	149.7	17.0					
	e PKPab	Z	18:05:32.2							
BRG	e PKPbc	Z	18:05:27.4	149.8	24.0					
	e PKPab	Z	18:05:32.6							
BUG	e PKPbc	Z	18:05:29.0	150.6	11.5					
MOX	e PKPbc	Z	18:05:28.9	150.6	20.0					
	e PKPab	Z	18:05:35.5							
TANN	e PKPbc	Z	18:05:29.2	150.6	21.6					
	e PKPab	Z	18:05:36.2							
UBBA	e PKPbc	Z	18:05:29.8	150.7	16.9					
ROTZ	e PKPbc	Z	18:05:31.0	151.3	21.6					
	e PKPab	Z	18:05:39.3							
GRA1	e PKPab	Z	18:05:40.0	151.6	19.8					
TNS	e PKPbc	Z	18:05:31.9	151.6	14.2					
	e PKPab	Z	18:05:40.0							
WET	e PKPbc	Z	18:05:32.0	151.7	23.3					
	e PKPab	Z	18:05:41.2							
GEC2	e PKPbc	Z	18:05:31.9	151.7	25.1					
	e PKPab	Z	18:05:41.3							
WLF	e PKPbc	Z	18:05:34.3	152.4	10.0					
FUR	e PKPab	Z	18:05:46.4	153.0	20.9					
RJOB	e PKPbc	Z	18:05:34.5	153.0	24.2					
	e PKPab	Z	18:05:46.5							
BFO	e PKPbc	Z	18:05:35.6	153.4	14.9					
	e PKPab	Z	18:05:47.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	18:34:39.7	18.507S	174.601W	124.4				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:54:00.1	144.4	8.0					
NRDL	e PKPbc	Z	18:54:03.5	145.8	8.0					
	e pPKPbc	Z	18:54:36.9							
IBBN	e PKPbc	Z	18:54:05.7	146.2	4.0					
	e pPKPbc	Z	18:54:38.4							
CLZ	e PKPbc	Z	18:54:06.0	146.4	8.6					

	e pPKPbc	Z	18:54:39.0			
CLL	e PKPbc	Z	18:54:06.2	146.7	13.2	
	e pPKPbc	Z	18:54:39.3			
BRG	e PKPbc	Z	18:54:07.3	146.9	15.0	
	e pPKPbc	Z	18:54:39.9			
BUG	e PKPbc	Z	18:54:07.4	147.0	3.3	
MOX	e PKPbc	Z	18:54:08.4	147.5	11.0	
TANN	e PKPbc	Z	18:54:08.8	147.6	12.6	
TNS	e PKPbc	Z	18:54:10.5	148.2	5.5	
GRA1	e PKPbc	Z	18:54:11.2	148.5	10.6	
WLF	e PKPbc	Z	18:54:12.9	148.8	1.4	
	e pPKPbc	Z	18:54:46.0			
GEC2	e PKPbc	Z	18:54:11.9	148.9	15.4	
	e pPKPbc	Z	18:54:46.3			
FUR	e PKPbc	Z	18:54:15.2	150.0	11.2	
	e pPKPbc	Z	18:54:48.4			
BFO	e PKPbc	Z	18:54:15.7	150.1	5.6	
	e pPKPbc	Z	18:54:48.6			
RJOB	e PKPbc	Z	18:54:15.3	150.2	14.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPab	Z	21:51:07.9							
GRA1	e PKPab	Z	21:51:15.1							
GUNZ	e PKPab	Z	21:51:11.8							
MOX	e PKPab	Z	21:51:10.4							
NKC	e PKPab	Z	21:51:11.9							
PLN	e PKPab	Z	21:51:11.0							
TANN	e PKPab	Z	21:51:11.2							
WERD	e PKPab	Z	21:51:10.9							
WERN	e PKPab	Z	21:51:11.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	22:43:11.5							
GRA1	e PKPbc	Z	22:43:17.2							
GUNZ	e PKPbc	Z	22:43:15.1							
NKC	e PKPbc	Z	22:43:15.5							
PLN	e PKPbc	Z	22:43:14.5							
TANN	e PKPbc	Z	22:43:14.6							
WERD	e PKPbc	Z	22:43:14.6							

WERN	e PKPbc	Z	22:43:15.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/18	23:29: 7.6	20.400N	120.000E	27.0	4.7			NEIC

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:41:47.4	85.9	62.8	1.5	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	00:35:30.3	6.253N	92.926E	33.0N	4.9	4.6		SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:47:26.3	78.2	94.6	1.5	16	4.9		
GEC2	e P	Z	00:47:26.6	78.2	94.0	1.4	26	5.2		
RJOB	e P	Z	00:47:30.7	78.7	93.1	1.2	13	4.9		
WET	e P	Z	00:47:29.5	78.8	93.4	1.3	16	5.0		
CLL	e P	Z	00:47:29.3	78.8	94.0	1.1	7	4.7		
TANN	e P	Z	00:47:31.4	79.1	93.4	1.4	9	4.7		
ROTZ	e P	Z	00:47:32.5	79.2	93.0	1.2	15	4.9		
MOX	e P	Z	00:47:34.3	79.7	92.7	1.0	7	4.7		
GRA1	e P	Z	00:47:36.1	79.9	92.3	1.0	20	5.1		
	e S	T	00:57:27.8							
	e L	Z	01:29:16.1			19.6	266		4.6	
CLZ	e P	Z	00:47:38.9	80.5	92.0	0.9	9	4.7		
BSEG	e P	Z	00:47:37.9	80.6	92.3	1.1	20	4.9		
NRDL	e P	Z	00:47:40.2	80.7	91.9	1.3	13	4.7		
WLF	e P	Z	00:47:53.2	83.2	88.4	1.5	22	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	00:36:43.4	4.900S	151.800E	124.0				NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	00:55:23.3	121.9	46.9					
BRG	e PKPdf	Z	00:55:23.7	122.2	52.2					
CLL	e PKPdf	Z	00:55:24.1	122.4	51.0					
NRDL	e PKPdf	Z	00:55:25.4	122.9	47.4					
TANN	e PKPdf	Z	00:55:25.8	123.2	50.9					
CLZ	e PKPdf	Z	00:55:26.2	123.3	48.0					
MOX	e PKPdf	Z	00:55:26.1	123.5	49.9					
GEC2	e PKPdf	Z	00:55:26.3	123.5	53.0					

ROTZ	e PKPdf	Z	00:55:26.4	123.7	50.9
WET	e PKPdf	Z	00:55:26.7	123.8	52.0
UBBA	e PKPdf	Z	00:55:28.4	124.1	48.1
GRA1	e PKPdf	Z	00:55:27.7	124.3	50.0
RJOB	e PKPdf	Z	00:55:28.3	124.7	52.6
BUG	e PKPdf	Z	00:55:29.3	124.9	44.8
FUR	e PKPdf	Z	00:55:29.1	125.2	50.8
TNS	e PKPdf	Z	00:55:29.9	125.2	46.7
STU	e PKPdf	Z	00:55:31.2	125.9	48.3
BFO	e PKPdf	Z	00:55:31.3	126.6	47.6
WLF	e PKPdf	Z	00:55:32.6	126.7	44.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	02:21:10.4							
	e Sn	N	02:21:58.7							
GEC2	e Pn	Z	02:21:25.1							
	e Sn	N	02:22:24.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	02:26:43.1	12.600N	87.700W	116.0	4.9			NEIC

Near coast of Nicaragua

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	02:39:14.5	82.9	281.1	1.3	16	4.9		
BFO	e P	Z	02:39:24.3	84.6	282.9	1.8	21	4.9		
NRDL	e P	Z	02:39:26.9	84.7	283.8	1.0	6	4.6		
CLZ	e P	Z	02:39:26.9	85.0	284.1	1.0	10	4.8		
MOX	e P	Z	02:39:32.7	86.1	285.1	1.3	7	4.6		
GRA1	e P	Z	02:39:32.8	86.1	284.9	1.2	15	5.0		
	e pP	Z	02:39:37.3							
PLN	e P	Z	02:39:34.7	86.4	285.6	1.3	64			
WERD	e P	Z	02:39:34.9	86.5	285.7	1.0	6	4.8		
GUNZ	e P	Z	02:39:35.4	86.6	285.7	1.3	12	5.0		
WERN	e P	Z	02:39:35.6	86.6	285.7	1.1	13	5.1		
TANN	e P	Z	02:39:35.4	86.7	285.8	1.1	11	5.0		
ROTZ	e P	Z	02:39:36.0	86.7	285.6	1.1	7	4.8		
NKC	e P	Z	02:39:35.5	86.7	285.8	0.8	10			
CLL	e P	Z	02:39:35.8	86.7	286.2	1.2	8	4.8		
RUE	e P	Z	02:39:37.1	86.9	286.7	0.6	15	5.4		
WET	e P	Z	02:39:38.8	87.3	286.2	1.2	12	5.0		
RJOB	e P	Z	02:39:39.5	87.6	286.2	1.2	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	05:19:24.6	14.400S	167.300E	227.0				NEIC

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	05:38:20.7	136.5	33.4					
	e SKPbc	Z	05:41:37.4							
BRG	e PKPdf	Z	05:38:22.6	137.7	40.2					
	e SKPbc	Z	05:41:40.0							
CLL	e PKPdf	Z	05:38:22.2	137.7	38.6					
	e SKPbc	Z	05:41:40.0							
NRDL	e PKPdf	Z	05:38:22.4	137.8	34.0					
CLZ	e PKPdf	Z	05:38:23.9	138.3	34.8					
	e SKPbc	Z	05:41:41.8							
TANN	e SKPbc	Z	05:41:42.5	138.6	38.5					
IBBN	e PKPdf	Z	05:38:23.7	138.7	30.9					
MOX	e PKPdf	Z	05:38:24.0	138.8	37.2					
GEC2	e PKPdf	Z	05:38:25.2	139.3	41.3					
	e SKPbc	Z	05:41:44.7							
WET	e PKPdf	Z	05:38:25.5	139.4	40.0					
BUG	e PKPdf	Z	05:38:26.4	139.6	30.7					
GRA1	e PKPdf	Z	05:38:26.1	139.7	37.4					
TNS	e PKPdf	Z	05:38:26.8	140.3	33.1					
BFO	e PKPdf	Z	05:38:26.9	141.9	34.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	07:25:15.1	5.249S	29.074E	33.0N	4.7			SZGRF

Lake Tanganyika region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:34:48.6	55.7	161.4	0.7	5	4.5		
WET	e P	Z	07:34:51.7	56.2	160.5	1.4	8	4.5		
BFO	e P	Z	07:34:54.6	56.6	155.0	1.2	10	4.6		
GRA1	e P	Z	07:34:58.5	57.1	158.7	1.5	32	5.0		
NKC	e P	Z	07:34:59.8	57.3	160.2					
WERN	e P	Z	07:35:00.6	57.4	160.1	1.1	7	4.6		
TANN	e P	Z	07:35:00.2	57.5	160.3	0.8	3	4.4		
WERD	e P	Z	07:35:01.2	57.5	160.1	0.9	5	4.5		
PLN	e P	Z	07:35:02.1	57.6	159.9					
MOX	e P	Z	07:35:04.1	57.9	159.3	1.0	4	4.4		
TNS	e P	Z	07:35:07.0	58.3	155.6	0.8	12	5.0		
CLZ	e P	Z	07:35:14.2	59.3	158.2	1.5	15	4.8		
BUG	e P	Z	07:35:17.8	59.7	154.6	0.7	17	5.2		
NRDL	e P	Z	07:35:19.4	59.9	158.0	1.1	28	5.2		
BSEG	e P	Z	07:35:27.8	61.2	158.6	0.7	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	10:26:14.2	32.750N	103.220E	33.0N	5.0			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	10:36:53.7	65.2	67.9					
BSEG	e P	Z	10:36:57.3	65.7	67.2	0.9	9	5.0		
GEC2	e P	Z	10:36:57.8	65.7	67.4	1.1	7	4.8		
TANN	e P	Z	10:36:58.1	65.8	67.2	1.3	9	4.8		
GUNZ	e P	Z	10:36:59.1	65.9	67.1	0.9	8	4.9		
WERN	e P	Z	10:36:58.9	65.9	67.1	1.2	9	4.9		
ROTZ	e P	Z	10:37:00.9	66.2	66.8	1.1	10	4.9		
NRDL	e P	Z	10:37:01.6	66.3	66.5	1.1	14	5.1		
CLZ	e P	Z	10:37:02.6	66.4	66.4	0.8	12	5.1		
GRA1	e P	Z	10:37:04.7	66.8	66.1	1.0	13	5.1		
BFO	e P	Z	10:37:18.7	69.1	63.8	1.1	9	4.9		
WLF	e P	Z	10:37:23.9	69.8	62.8	1.1	20	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	16:20:48.4	18.600S	173.400W	10.0				NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:40:37.1	148.7	8.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	16:43:29.5	18.960S	172.850W	10.0				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:03:04.5	144.9	5.2					
NRDL	e PKPbc	Z	17:03:09.9	146.4	5.1					
IBBN	e PKPbc	Z	17:03:11.0	146.7	1.0					
CLZ	e PKPbc	Z	17:03:13.1	147.0	5.6					
CLL	e PKPbc	Z	17:03:12.9	147.3	10.3					
BRG	e PKPbc	Z	17:03:13.7	147.6	12.1					
UBBA	e PKPbc	Z	17:03:14.6	148.1	5.1					
MOX	e PKPbc	Z	17:03:14.3	148.1	8.0					
ROTZ	e PKPbc	Z	17:03:18.0	148.9	9.3					
GRA1	e PKP	Z	17:03:18.1	149.1	7.5					
WET	e PKPbc	Z	17:03:18.6	149.5	10.7					
GEC2	e PKPbc	Z	17:03:18.6	149.7	12.3					

BFO	e PKPbc	Z	17:03:22.0	150.6	2.3	
RJOB	e PKPbc	Z	17:03:23.3	150.9	11.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/19	22:36:59.8	32.863N	92.007E	33.0N	4.7	4.3		SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:47:03.1	59.9	73.3	1.6	12	4.7		
	e PP	Z	22:49:18.5							
	e L	Z	23:15:01.6			21.1	252		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/20	00:18:18.4	19.140S	174.870W	33.0G				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	00:37:51.0	145.0	8.6					
NRDL	e PKPbc	Z	00:37:55.7	146.4	8.5					
IBBN	e PKPbc	Z	00:37:56.9	146.8	4.5					
CLZ	e PKPbc	Z	00:37:58.0	147.0	9.1					
CLL	e PKPbc	Z	00:37:57.9	147.2	13.8					
BRG	e PKPdf	Z	00:37:56.9	147.5	15.6					
	e PKPbc	Z	00:37:59.5							
BUG	e PKPbc	Z	00:37:59.1	147.7	3.8					
MOX	e PKPdf	Z	00:37:57.4	148.1	11.6					
	e PKPbc	Z	00:38:00.6							
UBBA	e PKPdf	Z	00:37:57.8	148.1	8.7					
	e PKPbc	Z	00:38:00.2							
TANN	e PKPdf	Z	00:37:57.8	148.2	13.2					
	e PKPbc	Z	00:38:01.0							
	e PKPab	Z	00:38:03.7							
TNS	e PKPdf	Z	00:37:58.9	148.8	6.1					
	e PKPbc	Z	00:38:02.6							
	e PKPab	Z	00:38:06.0							
GRA1	e PKPbc	Z	00:38:03.8	149.1	11.2					
WET	e PKPdf	Z	00:38:00.5	149.4	14.5					
	e PKPbc	Z	00:38:03.8							
WLF	e PKPbc	Z	00:38:04.7	149.5	1.9					
GEC2	e PKPdf	Z	00:38:00.0	149.5	16.1					
	e PKPbc	Z	00:38:04.2							
	e PKPab	Z	00:38:09.9							
STU	e PKPdf	Z	00:38:01.2	150.2	7.7					
	e PKPbc	Z	00:38:06.1							
	e PKPab	Z	00:38:11.8							

FUR	e PKPdf	Z	00:38:01.6	150.6	11.9	
	e PKPbc	Z	00:38:06.9			
	e PKPab	Z	00:38:13.5			
BFO	e PKPbc	Z	00:38:07.2	150.7	6.2	
	e PKPab	Z	00:38:13.4			
RJOB	e PKPdf	Z	00:38:01.9	150.7	14.9	
	e PKPbc	Z	00:38:07.5			
	e PKPab	Z	00:38:14.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/20	04:24:31.4	17.710S	175.180W	33.0G				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	04:44:11.8	147.6	11.4					
WET	e PKPbc	Z	04:44:12.9	147.9	14.6					
WLF	e PKPbc	Z	04:44:13.4	148.0	2.4					
GEC2	e PKPbc	Z	04:44:13.1	148.0	16.1					
STU	e PKPbc	Z	04:44:15.0	148.7	8.0					
BFO	e PKPbc	Z	04:44:16.1	149.2	6.5					
RJOB	e PKPbc	Z	04:44:16.7	149.3	15.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/20	10:01:35.7	3.100S	101.200E	35.0	5.0			NEIC

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:14:35.8	90.7	94.1	0.9	8	5.0		
GEC2	e P	Z	10:14:35.9	90.7	93.9	1.0	10	5.1		
RJOB	e P	Z	10:14:37.7	91.2	93.3	0.8	6	5.0		
WET	e P	Z	10:14:38.5	91.2	93.3	0.9	8	5.0		
ROTZ	e P	Z	10:14:41.2	91.7	92.8	1.1	7	4.9		
GRA1	e P	Z	10:14:44.0	92.3	92.0	1.1	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/20	12:25: 0.1	3.640S	98.960E	33.0N	5.2			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	12:37:54.5	89.6	96.0	1.4	18	5.1		
BRG	e P	Z	12:37:55.5	89.7	96.2	2.3	60	5.4		
WET	e P	Z	12:37:57.1	90.2	95.3	1.5	15	5.0		
CLL	e P	Z	12:37:57.6	90.3	95.4	1.4	12	5.0		

TANN	e P	Z	12:37:58.9	90.6	95.0	1.5	10	4.9
ROTZ	e P	Z	12:38:00.2	90.7	94.8	1.3	10	5.0
MOX	e P	Z	12:38:01.4	91.1	94.4	1.2	11	5.1
GRA1	e P	Z	12:38:02.8	91.3	94.1	1.5	29	5.4
CLZ	e P	Z	12:38:05.5	92.0	93.4	1.4	19	5.3
TNS	e P	Z	12:38:11.4	93.1	91.9	1.1	23	5.5
BFO	e P	Z	12:38:10.8	93.1	92.0	1.8	22	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/20	19:24:37.0	14.482N	93.153W	33.0G	4.9			SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:37:08.9	84.9	286.4	1.1	14	5.0		
BUG	e P	Z	19:37:09.0	85.0	287.1	0.7	8	4.9		
IBBN	e P	Z	19:37:09.9	85.1	287.4	0.8	10	5.0		
BSEG	e P	Z	19:37:14.2	86.0	289.3	1.0	19	5.4		
TNS	e P	Z	19:37:14.5	86.1	288.1	0.9	25	5.5		
NRDL	e P	Z	19:37:16.2	86.4	289.2	1.1	9	4.9		
MOX	e P	Z	19:37:23.1	87.9	290.5	0.9	2	4.4		
GRA1	e P	Z	19:37:24.1	88.0	290.2	0.9	6	4.9		
GUNZ	e P	Z	19:37:26.4	88.4	291.0					
CLL	e P	Z	19:37:25.6	88.5	291.5	0.9	3	4.7		
WERN	e P	Z	19:37:25.6	88.5	291.1					
TANN	e P	Z	19:37:26.2	88.5	291.1	1.0	3	4.6		
NKC	e P	Z	19:37:26.4	88.5	291.1					
ROTZ	e P	Z	19:37:26.6	88.6	290.9	1.5	8	4.8		
BRG	e P	Z	19:37:29.1	89.2	292.2	1.1	6	4.8		
WET	e P	Z	19:37:29.4	89.2	291.5	1.0	5	4.8		
GEC2	e P	Z	19:37:31.8	89.8	292.1			4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/20	23:59:17.5	22.659S	167.647E	33.0N				SZGRF

New Caledonia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	00:18:53.4	145.6	38.6					
MOX	e PKPbc	Z	00:18:53.7	146.4	42.6					
GRA1	e PKPbc	Z	00:18:57.0	147.2	43.0					
BUG	e PKPbc	Z	00:18:59.1	147.5	35.2					
RJOB	e PKPbc	Z	00:18:59.6	147.9	47.5					
TNS	e PKPbc	Z	00:18:57.6	148.0	38.2					
FUR	e PKPbc	Z	00:19:01.1	148.3	44.8					
STU	e PKPbc	Z	00:19:01.6	148.8	40.9					
WLF	e PKPbc	Z	00:19:03.7	149.3	35.0					

BFO	e PKPbc	Z	00:19:03.8	149.5	40.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	00:29:11.4	22.940S	171.730E	38.2				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	00:48:46.5	146.0	31.7					
	e pPKPbc	Z	00:48:58.3							
BRG	e PKPbc	Z	00:48:50.2	147.2	40.0					
CLL	e PKPbc	Z	00:48:50.0	147.2	38.1					
NRDL	e PKPbc	Z	00:48:50.3	147.3	32.5					
CLZ	e PKPbc	Z	00:48:51.9	147.7	33.5					
TANN	e PKPbc	Z	00:48:52.9	148.1	38.1					
	e pPKPbc	Z	00:49:04.4							
IBBN	e PKPbc	Z	00:48:52.8	148.2	28.8					
MOX	e PKPbc	Z	00:48:53.1	148.3	36.6					
UBBA	e PKPbc	Z	00:48:54.0	148.7	33.8					
GEC2	e PKPbc	Z	00:48:54.7	148.8	41.7					
WET	e PKPbc	Z	00:48:55.1	148.9	40.1					
BUG	e PKPbc	Z	00:48:55.1	149.1	28.7					
	e pPKPbc	Z	00:49:06.8							
GRA1	e PKPbc	Z	00:48:55.7	149.2	36.9					
	e pPKPbc	Z	00:49:07.1							
TNS	e PKPbc	Z	00:48:57.1	149.8	31.7					
RJOB	e PKPbc	Z	00:48:57.5	150.0	41.5					
FUR	e PKPbc	Z	00:48:58.5	150.4	38.6					
STU	e PKPbc	Z	00:48:59.4	150.7	34.4					
WLF	e PKPbc	Z	00:49:00.4	151.0	28.2					
BFO	e PKPbc	Z	00:49:01.6	151.4	33.3					
	e pPKPbc	Z	00:49:12.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	00:51:24.1	20.576N	119.481E	33.0N	4.8			SZGRF

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:03:49.7	83.4	65.2	1.4	6	4.5		
CLL	e P	Z	01:03:51.5	83.8	64.6	1.2	6	4.6		
BSEG	e P	Z	01:03:53.2	84.1	62.8	1.4	13	4.9		
GEC2	e P	Z	01:03:54.2	84.4	64.9	1.1	4	4.7		
TANN	e P	Z	01:03:55.2	84.5	64.1	1.9	13	4.9		
NEUB	e P	Z	01:03:54.5	84.5	63.6	0.8	6	5.0		
WERD	e P	Z	01:03:55.6	84.6	64.0	1.6	8	4.8		
GUNZ	e P	Z	01:03:55.9	84.6	64.0	1.2	7	4.9		

WERN	e P	Z	01:03:55.9	84.6	64.0	1.7	15	5.0
WET	e P	Z	01:03:57.7	84.8	64.3	0.9	3	4.6
NRDL	e P	Z	01:03:57.0	84.9	62.5	1.9	27	5.2
CLZ	e P	Z	01:03:57.9	85.0	62.6			
RJOB	e P	Z	01:04:00.2	85.5	64.1	1.0	3	4.5
GRA1	e P	Z	01:03:59.2	85.5	63.1	1.9	28	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	03:38: 1.9	14.800N	93.800W	5.0	4.8			NEIC

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	03:50:33.2	85.2	287.8	1.7	30	5.3		
IBBN	e P	Z	03:50:34.1	85.2	288.1	1.2	21	5.2		
BSEG	e P	Z	03:50:38.7	86.1	290.0	1.1	17	5.1		
TNS	e P	Z	03:50:39.6	86.3	288.8	0.9	17	5.2		
GRA1	e P	Z	03:50:48.0	88.1	290.9	1.1	6	4.8		
WERD	e P	Z	03:50:51.6	88.5	291.7	1.3	7	4.7		
GUNZ	e P	Z	03:50:52.0	88.5	291.7	1.2	6	4.6		
WERN	e P	Z	03:50:51.1	88.6	291.7	1.3	5	4.6		
TANN	e P	Z	03:50:50.7	88.6	291.8	1.5	10	4.8		
NKC	e P	Z	03:50:51.2	88.7	291.8	1.0	6	4.7		
ROTZ	e P	Z	03:50:50.8	88.7	291.6	2.1	18	4.9		
BRG	e P	Z	03:50:54.2	89.3	292.9	0.9	5	4.8		
WET	e P	Z	03:50:54.2	89.3	292.1	0.9	4	4.6		
GEC2	e P	Z	03:50:56.8	89.9	292.8	1.2	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	03:58:36.0	38.257N	41.508E	33.0N	4.4			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	04:03:39.1	23.2	107.2	1.4	9	4.1		
ROTZ	e P	Z	04:03:45.4	23.8	107.7	1.5	15	4.3		
NKC	e P	Z	04:03:46.8	23.8	109.0	1.3	15	4.4		
CLL	e P	Z	04:03:45.8	23.8	112.0	1.6	13	4.2		
TANN	e P	Z	04:03:46.8	23.8	109.4	1.4	6	4.0		
WERN	e P	Z	04:03:46.2	23.9	109.1	3.7	107	4.8		
GRA1	e P	Z	04:03:51.6	24.4	106.4	1.5	41	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	05:57:37.2	37.277N	21.064E	33.0G		4.7		SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	06:00:26.5	12.1	146.9	1.1	18			
	e S	R	06:02:46.0							
GEC2	e P	Z	06:00:34.2	12.7	152.5					
FUR	e P	Z	06:00:41.6	13.0	143.1					
	e S	R	06:03:07.9							
WET	e P	Z	06:00:41.1	13.3	150.4					
	e S	R	06:03:14.3							
ROTZ	e P	Z	06:00:52.0	14.0	149.6					
	e S	R	06:03:32.7							
GRA1	e P	Z	06:00:54.9	14.3	146.6					
	e S	R	06:03:35.8							
	e L	Z	06:08:25.4			20.3	6113		4.7	
STU	e P	Z	06:00:56.8	14.4	138.7					
	e S	R	06:03:38.3							
BFO	e P	Z	06:01:00.0	14.4	135.3					
	e S	R	06:03:38.4							
TANN	e P	Z	06:00:58.8	14.5	151.6					
BRG	e P	Z	06:00:57.6	14.5	156.8					
MOX	e P	Z	06:01:03.8	15.0	149.6					
	e S	R	06:03:55.5							
CLL	e P	Z	06:01:06.4	15.1	154.7					
UBBA	e P	Z	06:01:15.4	15.7	145.6					
TNS	e P	Z	06:01:16.3	15.8	140.3					
	e S	R	06:04:13.7							
WLF	e P	Z	06:01:24.3	16.4	133.5					
CLZ	e P	Z	06:01:23.2	16.4	148.5					
NRDL	e P	Z	06:01:31.6	17.0	148.9					
BUG	e P	Z	06:01:33.7	17.2	140.1					
IBBN	e P	Z	06:01:39.8	17.7	142.9					
BSEG	e P	Z	06:01:44.3	18.2	151.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	07:28:45.1	5.400S	152.100E	76.0				NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	07:47:36.6	124.8	49.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	11:36:25.7	36.830N	21.910E	33.0N	5.3	5.3		SZGRF

Southern Greece

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

RJOB	e	P	Z	11:39:34.1	12.8	145.1				
GEC2	e	P	Z	11:39:40.8	13.4	150.5				
FUR	e	P	Z	11:39:46.6	13.8	141.6				
WET	e	P	Z	11:39:47.8	14.0	148.6				
ROTZ	e	P	Z	11:39:58.9	14.7	147.9				
GRA1	e	P	Z	11:40:00.9	15.0	145.0				
	e	L	Z	11:47:31.4			19.7	22271		5.3
WERN	e	P	Z	11:40:05.8	15.1	149.4				
STU	e	P	Z	11:40:04.0	15.1	137.5				
BRG	e	P	Z	11:40:05.3	15.2	154.9				
GUNZ	e	P	Z	11:40:07.5	15.2	149.4				
TANN	e	P	Z	11:40:06.6	15.2	149.9	1.3	176		
BFO	e	P	Z	11:40:05.7	15.2	134.2	1.5	135		
WERD	e	P	Z	11:40:08.2	15.3	149.5	1.3	188		
MOX	e	P	Z	11:40:13.0	15.7	148.0	1.3	119	4.9	
CLL	e	P	Z	11:40:14.6	15.8	152.9	1.3	266	5.2	
UBBA	e	P	Z	11:40:23.1	16.4	144.1	1.6	272	5.1	
TNS	e	P	Z	11:40:23.0	16.5	139.0	1.4	660	5.6	
RUE	e	P	Z	11:40:27.4	16.7	156.7	1.1	466	5.5	
CLZ	e	P	Z	11:40:29.5	17.1	147.0	1.3	230	5.1	
WLF	e	P	Z	11:40:32.0	17.1	132.5	1.0	182	5.2	
BUG	e	P	Z	11:40:41.5	17.9	138.9	1.3	535	5.5	
IBBN	e	P	Z	11:40:45.4	18.4	141.7	1.3	348	5.3	
BSEG	e	P	Z	11:40:51.6	18.9	150.2	1.2	288	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	13:43:36.2	36.270N	20.458E	33.0N		4.0		SZGRF

Central Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e	P	Z 13:46:43.4	12.8	150.9					
GRA1	e	P	Z 13:47:11.4	15.0	150.0	1.5	22			
	e	L	Z 13:54:38.9			19.4	1106		4.0	
CLL	e	P	Z 13:47:26.1	16.0	157.6					
UBBA	e	P	Z 13:47:31.0	16.4	148.7					
TNS	e	P	Z 13:47:31.8	16.4	143.6					
NRDL	e	P	Z 13:47:47.5	17.8	151.7					
BUG	e	P	Z 13:47:50.9	17.8	143.1					
IBBN	e	P	Z 13:47:56.1	18.4	145.8	1.5	38			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/21	22:41:18.7	16.296S	176.652W	391.4				SZGRF

Fiji Islands region

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

IBBN	e PKPbc	Z	23:00:47.5	143.8	7.2
CLZ	e PKPbc	Z	23:00:47.5	144.0	11.5
CLL	e PKPbc	Z	23:00:46.7	144.1	16.0
BRG	e PKPbc	Z	23:00:48.3	144.4	17.6
BUG	e PKPbc	Z	23:00:49.4	144.7	6.5
MOX	e PKPbc	Z	23:00:50.4	145.0	13.9
UBBA	e PKPbc	Z	23:00:50.9	145.1	11.2
TANN	e PKPbc	Z	23:00:50.7	145.1	15.4
TNS	e PKPbc	Z	23:00:53.8	145.8	8.7
GRA1	e PKPbc	Z	23:00:54.5	146.0	13.6
WET	e PKPbc	Z	23:00:55.3	146.2	16.6
GEC2	e PKPbc	Z	23:00:55.0	146.4	18.1
WLF	e PKPbc	Z	23:00:55.4	146.6	4.9
FUR	e PKPbc	Z	23:00:57.9	147.5	14.3
RJOB	e PKPbc	Z	23:00:58.6	147.6	17.1
	e pPKPbc	Z	23:02:32.7		
BFO	e PKPbc	Z	23:00:58.7	147.7	9.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	00:40:11.8	36.277N	22.328E	10.0G	4.0	4.0		SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z	00:43:19.1	13.4	145.0					
	e Sn	Z	00:45:40.7							
GEC2	e Pn	Z	00:43:28.3	14.1	150.2					
	e Sn	E	00:45:55.5							
FUR	e Pn	Z	00:43:32.1	14.4	141.6					
WET	e Pn	Z	00:43:35.1	14.6	148.3					
ROTZ	e Sn	N	00:46:26.7	15.4	147.7					
GRA1	e P	Z	00:43:49.7	15.6	144.8	1.7	36	4.2		
	e Sn	N	00:46:32.3							
	e L	Z	00:51:14.3			19.2	1004		4.0	
STU	e P	Z	00:43:51.6	15.8	137.6	1.0	9	3.9		
TANN	e P	Z	00:43:51.3	15.8	149.6	1.2	8	3.7		
BFO	e P	Z	00:43:53.6	15.8	134.4	0.9	5	3.7		
MOX	e P	Z	00:43:59.5	16.3	147.7	1.3	6	3.5		
CLL	e P	Z	00:44:02.1	16.4	152.5	1.4	10	3.8		
TNS	e P	Z	00:44:11.3	17.2	139.1	1.6	59	4.5		
CLZ	e P	Z	00:44:17.5	17.7	146.7	0.9	5	3.6		
WLF	e P	Z	00:44:19.0	17.8	132.7	1.2	17	4.1		
NRDL	e P	Z	00:44:27.1	18.4	147.2	2.0	44	4.2		
BUG	e P	Z	00:44:28.2	18.6	138.9	1.3	27	4.3		
IBBN	e P	Z	00:44:35.7	19.0	141.6	1.3	24	4.3		
BSEG	e P	Z	00:44:37.9	19.5	149.9	1.5	19	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	01:31:53.7	15.630N	93.150W	33.0N	5.2			SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	01:44:21.8	84.0	287.1	0.7	20	5.4		
BUG	e P	Z	01:44:23.3	84.1	287.8	0.8	11	5.1		
IBBN	e P	Z	01:44:22.0	84.2	288.1	1.5	51	5.5		
BSEG	e P	Z	01:44:26.8	85.1	289.9	1.0	37	5.6		
TNS	e P	Z	01:44:28.1	85.2	288.8	0.6	42	5.8		
NRDL	e P	Z	01:44:29.1	85.5	289.9	1.2	30	5.3		
BFO	e P	Z	01:44:30.1	85.8	288.9	1.1	13	5.0		
CLZ	e P	Z	01:44:31.1	85.8	290.1	0.9	16	5.2		
UBBA	e P	Z	01:44:32.0	86.0	289.9	1.8	24	5.0		
STU	e P	Z	01:44:32.4	86.2	289.5	0.8	35	5.5		
MOX	e P	Z	01:44:36.8	87.0	291.2	0.8	7	4.8		
GRA1	e P	Z	01:44:37.5	87.1	290.9	1.7	46	5.3		
CLL	e P	Z	01:44:39.3	87.5	292.2	0.9	5	4.8		
TANN	e P	Z	01:44:39.9	87.6	291.8	1.4	13	5.1		
BRG	e P	Z	01:44:42.4	88.3	292.9	0.8	9	5.2		
WET	e P	Z	01:44:42.9	88.3	292.2	0.8	11	5.2		
RJOB	e P	Z	01:44:45.1	88.8	292.2	1.0	7	4.8		
GEC2	e P	Z	01:44:45.5	88.9	292.8	1.0	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	05:01:47.3	48.068N	155.169E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	05:13:25.8	75.1	23.3	1.0	4	4.4		
CLL	e P	Z	05:13:27.8	75.5	25.0	1.1	10	4.9		
BRG	e P	Z	05:13:29.0	75.6	25.6	0.9	3	4.4		
CLZ	e P	Z	05:13:29.7	75.7	23.4	1.2	15	5.0		
TANN	e P	Z	05:13:32.2	76.4	24.6	1.0	2	4.3		
MOX	e P	Z	05:13:33.6	76.4	24.1	1.3	8	4.7		
BUG	e P	Z	05:13:34.7	76.8	21.4	0.7	5	4.8		
GRA1	e P	Z	05:13:39.6	77.4	23.8	1.0	20	5.2		
WET	e P	Z	05:13:39.5	77.5	24.8	1.0	8	4.8		
GEC2	e P	Z	05:13:39.8	77.5	25.2	1.4	9	4.7		
TNS	e P	Z	05:13:40.7	77.6	22.0	1.2	12	4.9		
RJOB	e P	Z	05:13:47.0	78.8	24.6	0.9	4	4.5		
STU	e P	Z	05:13:47.1	78.8	22.4	0.6	8	4.9		
FUR	e P	Z	05:13:47.4	78.8	23.7	1.1	11	4.8		
BFO	e P	Z	05:13:49.8	79.4	21.8	1.4	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	07:22:41.2	35.549N	21.456E	10.0G		4.0		SZGRF

Central Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z	07:25:56.4	13.8	149.0					
	e Sn	Z	07:28:16.7							
GEC2	e Pn	Z	07:26:06.0	14.5	153.9					
	e Sn	E	07:28:34.3							
WET	e Pn	Z	07:26:10.5	15.0	152.0					
	e Sn	N	07:28:46.6							
GRA1	e Sn	Z	07:29:21.6	16.0	148.3					
	e L	Z	07:33:38.3			20.5	1048		4.0	
BFO	e Pn	Z	07:26:26.2	16.0	138.0					
TANN	e Pn	Z	07:26:29.2	16.2	152.9					
BRG	e Pn	Z	07:26:29.3	16.3	157.7					
MOX	e Pn	Z	07:26:35.1	16.7	151.0					
CLL	e Pn	Z	07:26:37.8	16.9	155.7					
UBBA	e Pn	Z	07:26:45.6	17.4	147.2					
TNS	e Pn	Z	07:26:46.7	17.4	142.3					
WLF	e Pn	Z	07:26:53.7	18.0	135.9					
NRDL	e Pn	Z	07:27:01.8	18.8	150.1					
BUG	e Pn	Z	07:27:04.1	18.9	141.9					
IBBN	e Pn	Z	07:27:10.3	19.4	144.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	07:22: 6.9	8.800S	157.800E	10.0		5.5		NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	07:41:12.8	127.9	42.3					
BRG	e PKPdf	Z	07:41:13.2	128.5	48.1					
CLL	e PKPdf	Z	07:41:13.1	128.6	46.8					
NRDL	e PKPdf	Z	07:41:14.8	129.0	42.8					
CLZ	e PKPdf	Z	07:41:15.5	129.4	43.5					
TANN	e PKPdf	Z	07:41:15.6	129.5	46.7					
MOX	e PKPdf	Z	07:41:14.9	129.7	45.6					
GEC2	e PKPdf	Z	07:41:16.2	129.9	49.1					
IBBN	e PKPdf	Z	07:41:17.3	130.1	40.2					
WET	e PKPdf	Z	07:41:16.7	130.1	48.0					
UBBA	e PKPdf	Z	07:41:16.5	130.3	43.7					
GRA1	e PKPdf	Z	07:41:17.6	130.6	45.8					
	e PP	Z	07:43:35.4							
	e SS	T	08:01:02.7							
	e L	Z	08:39:27.8			20.8	1091		5.5	
BUG	e PKPdf	Z	07:41:19.0	131.0	40.1					

RJOB	e PKPdf	Z	07:41:17.9	131.1	48.8
TNS	e PKPdf	Z	07:41:20.1	131.4	42.2
FUR	e PKPdf	Z	07:41:20.5	131.6	46.8
STU	e PKPdf	Z	07:41:21.2	132.1	44.0
WLF	e PKPdf	Z	07:41:21.6	132.8	39.8
BFO	e PKPdf	Z	07:41:18.8	132.9	43.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	10:37:39.0	32.187N	104.195E	33.0N	4.9			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:48:20.4	65.7	68.2	0.7	4	4.8		
CLL	e P	Z	10:48:22.0	66.1	67.7	1.1	6	4.8		
BSEG	e P	Z	10:48:26.5	66.6	66.9	0.9	10	5.1		
GEC2	e P	Z	10:48:26.5	66.7	67.2	1.3	6	4.7		
GUNZ	e P	Z	10:48:27.7	66.9	66.9	0.8	4	4.7		
WET	e P	Z	10:48:28.9	67.0	66.8	0.9	2	4.3		
NRDL	e P	Z	10:48:30.7	67.3	66.2	1.5	12	4.9		
CLZ	e P	Z	10:48:31.4	67.4	66.1	0.7	8	5.0		
GRA1	e P	Z	10:48:34.1	67.8	65.9	1.1	11	5.0		
FUR	e P	Z	10:48:38.3	68.4	65.4	0.6	12	5.3		
TNS	e P	Z	10:48:42.0	69.2	64.3	1.4	22	5.1		
WLF	e P	Z	10:48:52.3	70.8	62.6	1.1	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	13:15:34.8	8.800S	157.900E	10.0		4.8		NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	13:34:42.0	127.9	42.2					
BRG	e PKPdf	Z	13:34:42.9	128.5	48.0					
NRDL	e PKPdf	Z	13:34:43.8	129.1	42.7					
CLZ	e PKPdf	Z	13:34:44.5	129.4	43.4					
TANN	e PKPdf	Z	13:34:43.2	129.5	46.6					
WET	e PKPdf	Z	13:34:45.4	130.2	47.9					
GRA1	e PKPdf	Z	13:34:45.9	130.6	45.6					
	e L	Z	14:32:56.7			20.1	215		4.8	
WLF	e PKPdf	Z	13:34:48.9	132.8	39.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	16:48: 0.5	34.700N	25.500E	37.0	3.3			KAN

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:52:01.7	18.3	139.7	1.0	3	3.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/22	23:56:31.1	67.570N	141.360E	29.7	6.2	5.9		SZGRF

Eastern Siberia, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:05:48.1	53.2	21.1	1.8	868	6.4		
	e S	T	00:13:19.3							
NRDL	e P	Z	00:05:57.9	54.5	20.6	1.5	352	6.2		
	e S	T	00:13:36.4							
CLL	e P	Z	00:06:00.6	55.0	21.4	1.4	374	6.2		
	e S	T	00:13:43.0							
CLZ	e P	Z	00:06:02.3	55.1	20.6	1.9	864	6.5		
	e S	T	00:13:45.3							
BRG	e P	Z	00:06:02.4	55.2	21.7	1.7	319	6.1		
IBBN	e P	Z	00:06:02.8	55.2	19.7	1.8	510	6.2		
	e S	T	00:13:49.3							
MOX	e P	Z	00:06:08.0	55.9	20.7	1.4	352	6.2		
	e pP	Z	00:06:16.1							
	e S	T	00:13:55.7							
TANN	e P	Z	00:06:08.3	56.0	21.0	1.8	573	6.3		
	e pP	Z	00:06:16.6							
	e S	T	00:13:57.3							
BUG	e P	Z	00:06:09.3	56.1	19.3	1.5	418	6.2		
	e pP	Z	00:06:17.3							
UBBA	e P	Z	00:06:09.2	56.1	20.2	1.8	296	6.0		
	e S	T	00:13:58.3							
ROTZ	e P	Z	00:06:13.2	56.6	20.8	1.5	269	6.0		
	e pP	Z	00:06:21.3							
GRA1	e P	Z	00:06:15.3	56.9	20.4	1.6	574	6.3		
	e pP	Z	00:06:23.5							
	e S	T	00:14:11.3							
	e L	Z	00:34:16.1			21.6	10807		5.9	
TNS	e P	Z	00:06:15.9	57.0	19.5	1.6	527	6.3		
	e S	T	00:14:10.6							
WET	e P	Z	00:06:16.3	57.1	20.8	1.6	264	6.0		
	e pP	Z	00:06:24.3							
	e S	T	00:14:11.2							
GEC2	e P	Z	00:06:16.5	57.1	21.1	1.4	230	6.0		
WLF	e P	Z	00:06:23.1	58.0	18.5	2.0	295	6.0		
STU	e P	Z	00:06:24.1	58.2	19.4	1.3	258	6.1		
	e P	T	00:14:27.0							
FUR	e P	Z	00:06:25.0	58.3	20.1	1.5	423	6.2		
	e pP	Z	00:06:33.2							

RJOB	e P	Z	00:06:25.6	58.4	20.5	1.4	260	6.1
BFO	e P	Z	00:06:28.2	58.8	19.0	1.5	236	6.0
	e pP	Z	00:06:36.4					
	e S	T	00:14:33.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/23	12:32:16.6	46.154N	153.059E	33.0N	6.0	5.5		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:43:54.7	75.0	25.7	0.9	135	6.1		
NRDL	e P	Z	12:44:02.2	76.4	25.4	0.9	122	6.0		
	e S	T	12:53:47.6							
CLL	e P	Z	12:44:03.4	76.6	27.2	0.7	251	6.3		
	e S	T	12:53:49.5							
BRG	e P	Z	12:44:04.3	76.8	27.8	1.0	48	5.5		
	e S	T	12:53:50.8							
CLZ	e P	Z	12:44:05.8	76.9	25.5	2.5	1518	6.6		
	e S	T	12:53:53.2							
IBBN	e P	Z	12:44:06.8	77.1	23.9	0.8	172	6.2		
TANN	e P	Z	12:44:09.4	77.6	26.8	0.9	38	5.5		
	e S	T	12:53:59.8							
MOX	e P	Z	12:44:09.5	77.6	26.2	0.9	116	6.0		
	e S	T	12:54:01.5							
UBBA	e P	Z	12:44:11.0	77.9	25.2	0.8	52	5.7		
	e S	T	12:54:04.6							
BUG	e P	Z	12:44:11.8	78.1	23.5	0.9	162	6.1		
	e S	T	12:54:07.2							
ROTZ	e P	Z	12:44:13.5	78.3	26.5	2.6	929	6.5		
	e S	T	12:54:08.2							
GRA1	e P	Z	12:44:15.4	78.6	25.9	0.8	285	6.4		
	e S	T	12:54:14.6							
	e L	Z	13:21:31.1			18.8	2348		5.5	
WET	e P	Z	12:44:15.5	78.6	26.9	0.9	132	6.1		
GEC2	e P	Z	12:44:15.1	78.6	27.4	0.9	57	5.7		
	e S	T	12:54:13.4							
TNS	e P	Z	12:44:16.6	78.9	24.1	0.8	226	6.3		
RJOB	e P	Z	12:44:22.6	79.9	26.7	0.9	136	6.1		
FUR	e P	Z	12:44:22.8	80.0	25.8	0.9	182	6.2		
WLF	e P	Z	12:44:22.7	80.0	22.6	0.9	43	5.6		
	e S	T	12:54:27.3							
STU	e P	Z	12:44:22.7	80.0	24.5	1.0	124	6.0		
	e S	T	12:54:28.9							
BFO	e P	Z	12:44:26.1	80.6	23.9	1.0	125	5.9		
	e S	T	12:54:34.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/23	20:58:51.5	16.853S	174.877W	82.5				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	21:18:16.7	144.8	8.7					
CLL	e PKPbc	Z	21:18:16.1	145.0	13.2					
BUG	e pPKPbc	Z	21:18:41.3	145.4	3.6					
MOX	e PKPbc	Z	21:18:20.0	145.8	11.1					
	e pPKPbc	Z	21:18:42.1							
TANN	e PKPbc	Z	21:18:20.4	145.9	12.6					
	e pPKPbc	Z	21:18:42.9							
TNS	e PKPbc	Z	21:18:21.4	146.5	5.8					
	e pPKPbc	Z	21:18:45.7							
GRA1	e PKPbc	Z	21:18:23.2	146.8	10.7					
	e pPKPbc	Z	21:18:46.1							
WLF	e PKPbc	Z	21:18:23.8	147.2	1.8					
	e pPKPbc	Z	21:18:46.4							
GEC2	e PKPbc	Z	21:18:23.9	147.3	15.3					
	e pPKPbc	Z	21:18:46.9							
BFO	e PKPbc	Z	21:18:27.3	148.4	5.9					
RJOB	e PKPbc	Z	21:18:27.1	148.5	14.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/24	18:26:49.8	39.840N	70.950E	33.0N	4.9	4.2		SZGRF

Tajikistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:34:26.5	40.5	82.9	0.8	34	5.1		
GEC2	e P	Z	18:34:30.6	40.9	80.4	1.0	28	4.9		
CLL	e P	Z	18:34:30.6	41.0	82.8	0.7	30	5.1		
WET	e P	Z	18:34:34.4	41.4	80.3	0.9	25	4.9		
TANN	e P	Z	18:34:34.9	41.5	81.4	1.2	18	4.7		
RJOB	e P	Z	18:34:36.2	41.7	78.6	0.8	5	4.3		
ROTZ	e P	Z	18:34:37.4	41.7	80.5	1.1	9	4.4		
MOX	e P	Z	18:34:38.8	42.0	81.1	0.9	18	4.8		
BSEG	e P	Z	18:34:42.0	42.3	83.8	1.1	40	5.1		
GRA1	e P	Z	18:34:43.0	42.4	79.8	0.9	54	5.3		
	e L	Z	18:55:30.6			18.1	289		4.2	
CLZ	e P	Z	18:34:43.7	42.5	81.6	0.8	14	4.7		
NRDL	e P	Z	18:34:44.3	42.6	82.1	1.0	31	5.0		
FUR	e P	Z	18:34:44.6	42.6	78.2	0.9	41	5.1		
UBBA	e P	Z	18:34:46.6	42.9	80.2	0.7	7	4.5		
STU	e P	Z	18:34:54.4	43.8	77.6	0.5	15	5.0		
TNS	e P	Z	18:34:55.6	44.0	78.6	0.8	12	4.7		
IBBN	e P	Z	18:34:55.9	44.1	80.3	0.8	25	5.0		

BFO	e P	Z	18:34:59.1	44.5	76.6	0.9	15	4.9
BUG	e P	Z	18:34:59.5	44.5	79.1	0.8	8	4.7
WLF	e P	Z	18:35:08.4	45.6	76.6	1.1	33	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/24	19:14:43.5	3.100S	101.840E	48.4	5.4	4.3		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:27:42.9	91.1	93.6	0.9	22	5.5		
	e S	T	19:38:36.4							
GEC2	e P	Z	19:27:43.1	91.1	93.4	1.6	52	5.6		
	e S	T	19:38:37.8							
RJOB	e P	Z	19:27:44.6	91.7	92.8	0.9	12	5.2		
WET	e P	Z	19:27:45.6	91.7	92.8	1.1	26	5.5		
	e S	T	19:38:41.5							
CLL	e P	Z	19:27:45.4	91.7	92.8	1.1	15	5.3		
	e S	T	19:38:42.3							
TANN	e P	Z	19:27:47.0	92.0	92.5	1.1	8	5.1		
	e S	T	19:38:45.9							
ROTZ	e P	Z	19:27:48.2	92.1	92.3	1.2	17	5.4		
MOX	e P	Z	19:27:49.5	92.5	91.8	1.3	15	5.3		
FUR	e S	T	19:38:50.1	92.7	91.6					
GRA1	e P	Z	19:27:50.9	92.8	91.5	0.9	22	5.5		
	e pP	Z	19:28:05.0							
	e sP	Z	19:28:08.8							
	e S	T	19:38:52.1							
	e L	Z	20:15:19.5			21.0	114		4.3	
CLZ	e P	Z	19:27:53.2	93.3	90.8	1.0	13	5.2		
BSEG	e P	Z	19:27:53.2	93.4	90.6	1.0	14	5.2		
NRDL	e P	Z	19:27:54.1	93.5	90.5	0.9	13	5.2		
	e S	T	19:38:57.7							
STU	e S	T	19:39:04.7	94.1	90.1					
TNS	e P	Z	19:27:58.9	94.6	89.4	0.9	35	5.8		
BFO	e P	Z	19:27:58.5	94.6	89.4	0.9	5	4.9		
	e S	T	19:39:07.8							
BUG	e S	T	19:39:15.6	95.3	88.4					
WLF	e P	Z	19:28:05.5	96.0	87.7	1.9	39	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	01:52:36.4	1.670N	97.760E	25.0N	5.1	5.1		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:05:08.9	84.8	93.7	1.5	17	5.0		

	e S	T	02:15:36.7						
GEC2	e P	Z	02:05:08.8	84.8	93.4	1.6	29	5.3	
	e S	T	02:15:34.3						
RJOB	e S	T	02:15:38.1	85.4	92.6				
WET	e P	Z	02:05:11.7	85.4	92.8	1.6	18	5.0	
	e pP	Z	02:05:18.9						
	e S	T	02:15:41.5						
CLL	e P	Z	02:05:11.5	85.4	93.1	1.8	19	5.0	
	e pP	Z	02:05:19.0						
	e S	T	02:15:41.5						
TANN	e P	Z	02:05:13.3	85.7	92.6	1.7	13	4.8	
	e S	T	02:15:46.7						
ROTZ	e P	Z	02:05:14.6	85.9	92.3	1.6	15	4.9	
	e pP	Z	02:05:21.8						
	e S	T	02:15:47.7						
MOX	e P	Z	02:05:16.1	86.3	91.9	1.4	9	4.7	
	e S	T	02:15:51.0						
FUR	e S	T	02:15:49.4	86.4	91.5				
GRA1	e P	Z	02:05:17.2	86.5	91.6	1.8	56	5.4	
	e pP	Z	02:05:24.4						
	e S	T	02:15:53.1						
	e L	Z	02:50:23.3			21.6	773		5.1
CLZ	e P	Z	02:05:20.4	87.1	91.0	1.6	27	5.1	
	e S	T	02:15:56.6						
BSEG	e P	Z	02:05:20.9	87.1	91.1	1.7	41	5.3	
	e S	T	02:15:57.9						
NRDL	e P	Z	02:05:20.8	87.2	90.8	1.6	37	5.3	
	e S	T	02:15:58.4						
UBBA	e S	T	02:15:59.4	87.3	90.7				
STU	e S	T	02:16:03.5	87.8	90.0				
TNS	e P	Z	02:05:26.5	88.3	89.5	1.9	42	5.4	
	e S	T	02:16:11.7						
BFO	e P	Z	02:05:25.7	88.4	89.3	0.9	3	4.6	
	e S	T	02:16:09.2						
IBBN	e P	Z	02:05:28.4	88.7	89.0	3.1	253	5.9	
	e S	T	02:16:14.1						
BUG	e P	Z	02:05:29.4	89.0	88.6	1.0	13	5.1	
	e S	T	02:16:16.4						
WLF	e S	T	02:16:24.7	89.8	87.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	02:53:28.4	1.780N	97.120E	25.0	5.3	5.2		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:05:58.6	84.3	94.2	1.9	62	5.5		
	e S	T	03:16:23.8							

GEC2	e P	Z	03:05:58.8	84.3	93.8	1.6	76	5.7	
	e pP	Z	03:06:06.0						
	e S	T	03:16:23.1						
RJOB	e P	Z	03:06:00.6	84.9	93.0	1.2	14	5.1	
	e S	T	03:16:25.9						
WET	e P	Z	03:06:01.4	84.9	93.2	1.3	29	5.3	
	e S	T	03:16:29.7						
CLL	e P	Z	03:06:01.2	84.9	93.5	1.3	18	5.2	
	e S	T	03:16:28.6						
TANN	e P	Z	03:06:03.1	85.2	93.0	1.3	15	5.1	
	e S	T	03:16:35.3						
ROTZ	e P	Z	03:06:04.2	85.4	92.7				
	e P	Z	03:06:04.7						
	e pP	Z	03:06:11.6						
	e S	T	03:16:36.3						
MOX	e P	Z	03:06:05.8	85.8	92.3	1.5	22	5.2	
FUR	e P	Z	03:06:05.9	85.9	91.9	0.5	10	5.2	
	e S	T	03:16:38.7						
GRA1	e P	Z	03:06:07.2	86.0	92.0	1.2	40	5.4	
	e pP	Z	03:06:14.6						
	e PP	Z	03:09:29.3						
	e pPP	Z	03:09:38.9						
	e S	T	03:16:39.6						
	e L	Z	03:51:48.1			21.4	978		5.2
CLZ	e P	Z	03:06:10.0	86.6	91.5	1.4	33	5.3	
	e pP	Z	03:06:17.5						
	e S	T	03:16:43.2						
BSEG	e P	Z	03:06:10.7	86.7	91.5	1.4	51	5.5	
	e pP	Z	03:06:17.9						
	e S	T	03:16:46.6						
NRDL	e P	Z	03:06:11.2	86.8	91.3	1.6	60	5.5	
	e S	T	03:16:46.2						
UBBA	e P	Z	03:06:10.9	86.8	91.1	1.0	9	4.9	
	e pP	Z	03:06:18.2						
	e S	T	03:16:46.4						
STU	e P	Z	03:06:13.1	87.3	90.4	0.8	14	5.2	
	e S	T	03:16:52.7						
TNS	e P	Z	03:06:16.0	87.8	89.9	1.6	61	5.5	
	e S	T	03:16:58.9						
BFO	e P	Z	03:06:15.6	87.9	89.7	1.1	9	5.0	
	e S	T	03:16:58.9						
IBBN	e P	Z	03:06:17.9	88.2	89.4	1.5	81	5.8	
	e pP	Z	03:06:25.5						
	e S	T	03:17:01.3						
BUG	e P	Z	03:06:19.3	88.5	89.0	1.3	45	5.6	
	e S	T	03:17:05.0						
WLF	e P	Z	03:06:23.2	89.3	88.1	1.5	65	5.6	
	e pP	Z	03:06:30.3						
	e S	T	03:17:11.8						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	06:40:48.8	12.000N	125.700E	74.0				NEIC

Samar, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	06:53:58.0	93.9	65.6					
CLL	e Pdiff	Z	06:53:59.4	94.2	64.8					
GEC2	e Pdiff	Z	06:54:02.5	94.9	65.5					
TANN	e Pdiff	Z	06:54:03.0	94.9	64.4					
WET	e Pdiff	Z	06:54:04.5	95.2	64.9					
NRDL	e Pdiff	Z	06:54:05.2	95.3	62.4					
MOX	e Pdiff	Z	06:54:04.8	95.3	63.7					
ROTZ	e Pdiff	Z	06:54:05.6	95.3	64.3					
CLZ	e Pdiff	Z	06:54:05.6	95.5	62.6					
RJOB	e Pdiff	Z	06:54:07.3	95.9	64.9					
GRA1	e Pdiff	Z	06:54:07.7	95.9	63.5					
UBBA	e Pdiff	Z	06:54:08.5	96.1	62.4					
TNS	e Pdiff	Z	06:54:13.5	97.3	61.2					
BFO	e Pdiff	Z	06:54:19.2	98.3	61.4					
WLF	e Pdiff	Z	06:54:21.9	98.8	59.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	07:19:45.2	81.865N	2.892E	22.2	4.5			SZGRF

North of Svalbard

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:26:11.2	32.3	357.8	1.4	9	4.5		
	e pP	Z	07:26:17.0			1.4	9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	14:09:25.4	46.077N	15.276E	10.0G			3.1	SZGRF

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pg	Z	14:09:36.3	0.7	130.4					3.0
ARSA	e Pg	Z	14:09:47.7	1.2	188.3					2.5
KBA	e Pn	Z	14:09:53.1	1.7	126.3					3.0
	e Sg	N	14:10:18.7							
MOA	e Pg	Z	14:09:58.1	1.9	158.4					2.7
	e Sg	N	14:10:24.2							
WTTA	e Pn	Z	14:10:09.2	2.8	114.1					3.3
GEC2	e Pn	Z	14:10:12.9	3.0	158.4					3.0

DAVA	e Pn	Z	14:10:23.7	3.9	106.1			
GRA1	e Sg	N	14:11:50.1	4.5	141.5			3.8
WERN	e Pn	Z	14:10:35.5	4.6	154.2			3.4
	e Sn	E	14:11:24.2					
GUNZ	e Sn	E	14:11:27.2	4.7	154.3			3.5
WERD	e Sn	E	14:11:29.3	4.8	154.5			3.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	15:41:27.8	5.458S	151.701E	50.0G		5.4		NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	16:00:18.1	122.3	47.3					
BRG	e PKPdf	Z	16:00:18.2	122.6	52.6					
CLL	e PKPdf	Z	16:00:18.5	122.8	51.4					
NRDL	e PKPdf	Z	16:00:19.8	123.4	47.8					
TANN	e PKPdf	Z	16:00:20.2	123.6	51.3					
CLZ	e PKPdf	Z	16:00:20.8	123.7	48.4					
MOX	e PKPdf	Z	16:00:20.9	123.9	50.3					
GEC2	e PKPdf	Z	16:00:20.7	123.9	53.4					
WET	e PKPdf	Z	16:00:21.2	124.2	52.4					
UBBA	e PKPdf	Z	16:00:22.0	124.6	48.5					
IBBN	e PKPdf	Z	16:00:22.1	124.6	45.4					
GRA1	e PKPdf	Z	16:00:22.6	124.7	50.4					
	e PP	Z	16:02:11.4							
	e L	Z	16:57:12.1			21.4	908		5.4	
RJOB	e PKPdf	Z	16:00:22.8	125.1	53.1					
BUG	e PKPdf	Z	16:00:23.9	125.4	45.3					
FUR	e PKPdf	Z	16:00:24.3	125.6	51.3					
TNS	e PKPdf	Z	16:00:24.4	125.7	47.2					
STU	e PKPdf	Z	16:00:25.6	126.3	48.8					
BFO	e PKPdf	Z	16:00:26.3	127.0	48.1					
WLF	e PKPdf	Z	16:00:27.9	127.1	44.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	16:29:04.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	18:13:43.0	20.924S	168.341E	33.0N				SZGRF

Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	18:33:12.6	144.0	43.3					
CLL	e PKPbc	Z	18:33:12.5	144.0	41.6					
TANN	e PKPbc	Z	18:33:15.4	144.9	41.6					
WERD	e PKPbc	Z	18:33:15.9	145.0	41.4					
GEC2	e PKPbc	Z	18:33:17.5	145.5	45.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	19:44:16.6	17.568S	177.245W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:03:45.0	143.2	12.1					
NRDL	e PKPbc	Z	20:03:49.1	144.6	12.2					
CLZ	e PKPbc	Z	20:03:51.7	145.2	12.8					
CLL	e PKPbc	Z	20:03:51.6	145.3	17.3					
BRG	e PKPbc	Z	20:03:52.4	145.5	19.1					
NEUB	e PKPbc	Z	20:03:52.9	145.6	15.3					
PLN	e PKPbc	Z	20:03:54.7	146.2	16.3					
WERD	e PKPbc	Z	20:03:54.6	146.2	16.5					
TANN	e PKPbc	Z	20:03:54.8	146.2	16.8					
GUNZ	e PKPbc	Z	20:03:55.0	146.3	16.6					
WERN	e PKPbc	Z	20:03:55.3	146.4	16.7					
NKC	e PKPbc	Z	20:03:55.2	146.4	16.9					
ROTZ	e PKPbc	Z	20:03:56.5	146.9	16.7					
TNS	e PKPbc	Z	20:03:56.8	147.0	10.0					
GRA1	e PKPbc	Z	20:03:55.9	147.2	15.0					
GEC2	e PKPbc	Z	20:03:57.7	147.5	19.7					
WLF	e PKPbc	Z	20:03:59.5	147.8	6.1					
BFO	e PKPbc	Z	20:04:01.7	148.9	10.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/25	23:37:16.9	42.770N	143.340E	76.9	5.5			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:48:53.8	75.3	33.7	0.9	57	5.6		
CLL	e P	Z	23:49:00.0	76.5	35.1	1.0	52	5.6		
BRG	e P	Z	23:49:00.3	76.5	35.7	1.9	84	5.5		
NRDL	e P	Z	23:49:00.6	76.6	33.4	1.0	33	5.4		
CLZ	e P	Z	23:49:03.5	77.0	33.5	0.9	70	5.8		
TANN	e P	Z	23:49:05.6	77.5	34.7	2.0	71	5.5		
IBBN	e P	Z	23:49:05.9	77.5	31.8	0.9	60	5.7		
MOX	e P	Z	23:49:06.2	77.6	34.1	1.3	44	5.4		

UBBA	e P	Z	23:49:08.6	78.0	33.1	1.9	74	5.5	
ROTZ	e P	Z	23:49:09.6	78.1	34.4	1.1	39	5.5	
GEC2	e P	Z	23:49:10.0	78.3	35.3	1.9	65	5.4	
WET	e P	Z	23:49:10.9	78.3	34.8	1.1	43	5.4	
BUG	e P	Z	23:49:10.6	78.4	31.3	1.0	53	5.5	
GRA1	e P	Z	23:49:11.8	78.5	33.8	0.9	87	5.8	
	e pP	Z	23:49:32.3						
	e S	T	23:59:04.1						
TNS	e P	Z	23:49:14.4	79.0	32.0	1.2	52	5.4	
RJOB	e P	Z	23:49:17.4	79.5	34.6	1.0	38	5.3	
FUR	e P	Z	23:49:18.4	79.8	33.6	0.9	73	5.6	
STU	e P	Z	23:49:19.5	80.0	32.3	1.0	52	5.4	
WLF	e P	Z	23:49:21.3	80.3	30.4	2.1	134	5.5	
BFO	e P	Z	23:49:23.0	80.7	31.7	1.3	60	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/26	00:06:36.5	8.684S	76.597W	33.0N	5.4			SZGRF

Central Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	00:19:42.2	92.0	258.9	1.0	23	5.5		
BUG	e P	Z	00:19:46.9	93.0	259.8	1.4	26	5.5		
CLZ	e P	Z	00:19:55.5	95.0	262.2	1.1	8	5.0		
BSEG	e P	Z	00:19:58.1	95.2	262.4	1.5	21	5.3		
GRA1	e P	Z	00:19:57.8	95.2	262.7	1.2	16	5.3		
MOX	e P	Z	00:19:58.4	95.6	263.1	3.2	110	5.8		
RJOB	e P	Z	00:20:00.4	96.0	263.7	2.5	50	5.6		
TANN	e P	Z	00:20:01.5	96.1	263.7	1.8	24	5.4		
WET	e P	Z	00:20:02.2	96.2	263.9	2.2	32	5.5		
CLL	e P	Z	00:20:03.0	96.5	264.2	0.8	5	5.1		
GEC2	e P	Z	00:20:05.1	96.7	264.5	1.2	6	5.1		
BRG	e P	Z	00:20:05.4	97.1	264.9	1.3	11	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/26	06:51:16.0	38.786N	140.492E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:03:10.4	77.9	37.5	1.2	12	4.9		
CLL	e P	Z	07:03:15.9	78.9	39.1	0.9	8	4.8		
GEC2	e P	Z	07:03:25.5	80.5	39.3	0.7	3	4.4		
GRA1	e P	Z	07:03:27.2	80.9	37.7	1.1	22	5.1		
RJOB	e P	Z	07:03:32.3	81.8	38.5	1.3	11	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/26	14:34: 5.2	38.617N	140.531E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:46:17.2	81.0	37.7	1.4	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/26	18:03: 8.5	17.149S	176.857W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	18:22:41.0	144.8	12.1					
CLL	e PKPbc	Z	18:22:41.4	145.0	16.6					
BRG	e PKPbc	Z	18:22:42.2	145.2	18.3					
MOX	e PKPbc	Z	18:22:44.0	145.8	14.5					
TANN	e PKPbc	Z	18:22:44.6	145.9	16.0					
ROTZ	e PKPbc	Z	18:22:46.9	146.6	15.9					
GRA1	e PKPbc	Z	18:22:47.8	146.8	14.2					
GEC2	e PKPbc	Z	18:22:48.4	147.2	18.8					
WLF	e PKPbc	Z	18:22:49.9	147.4	5.3					
BFO	e PKPbc	Z	18:22:51.3	148.5	9.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/26	21:19:15.8	21.030S	173.860W	43.5		6.2		SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	21:38:51.2	146.9	7.2					
	e PKPbc	Z	21:38:53.6							
	e pPKPbc	Z	21:39:06.7							
NRDL	e PKPdf	Z	21:38:53.3	148.4	7.1					
	e PKPbc	Z	21:38:57.3							
	e pPKPbc	Z	21:39:10.3							
IBBN	e PKPdf	Z	21:38:54.2	148.7	2.9					
	e PKPbc	Z	21:38:58.2							
	e PKPab	Z	21:39:02.3							
	e pPKPbc	Z	21:39:11.3							
CLZ	e PKPdf	Z	21:38:54.8	149.0	7.7					
	e PKPbc	Z	21:38:59.1							
	e PKPab	Z	21:39:04.0							
	e pPKPbc	Z	21:39:11.8							
CLL	e PKPdf	Z	21:38:54.9	149.3	12.6					
	e PKPbc	Z	21:38:59.5							

	e	pPKPbc	Z	21:39:12.6					
BRG	e	PKPdf	Z	21:38:55.5	149.5	14.5			
	e	PKPbc	Z	21:39:00.8					
	e	pPKPbc	Z	21:39:13.3					
BUG	e	PKPdf	Z	21:38:55.4	149.6	2.1			
	e	PKPbc	Z	21:39:00.5					
UBBA	e	PKPdf	Z	21:38:56.5	150.1	7.2			
	e	PKPbc	Z	21:39:01.4					
	e	PKPab	Z	21:39:06.9					
MOX	e	PKPdf	Z	21:38:56.4	150.1	10.3			
	e	PKPbc	Z	21:39:01.9					
TANN	e	PKPdf	Z	21:38:56.5	150.2	11.9			
	e	PKPbc	Z	21:39:01.9					
	e	PKPab	Z	21:39:09.3					
	e	pPKPbc	Z	21:39:15.4					
TNS	e	PKPdf	Z	21:38:57.9	150.8	4.4			
	e	PKPbc	Z	21:39:03.0					
	e	PKPab	Z	21:39:10.2					
	e	pPKPbc	Z	21:39:16.5					
	e	pPKPab	Z	21:39:23.3					
ROTZ	e	PKPdf	Z	21:38:57.8	150.9	11.7			
	e	PKPbc	Z	21:39:03.4					
GRA1	e	PKPdf	Z	21:38:57.8	151.1	9.8			
	e	PKPbc	Z	21:39:03.7					
	e	PKPab	Z	21:39:12.0					
	e	pPKPab	Z	21:39:25.0					
	e	PP	Z	21:42:46.2					
	e	SS	T	22:01:47.9					
	e	SSS	T	22:07:54.9					
	e	L	Z	22:48:43.2			21.2	3780	6.2
WLF	e	PKPdf	Z	21:38:58.6	151.4	0.0			
	e	PKPbc	Z	21:39:05.0					
	e	PKPab	Z	21:39:13.8					
	e	pPKPab	Z	21:39:26.0					
WET	e	PKPdf	Z	21:38:58.2	151.4	13.2			
	e	PKPbc	Z	21:39:04.6					
	e	PKPab	Z	21:39:13.7					
GEC2	e	PKPdf	Z	21:38:58.3	151.5	14.9			
	e	PKPbc	Z	21:39:05.1					
	e	PKPab	Z	21:39:14.2					
	e	pPKPbc	Z	21:39:18.7					
STU	e	PKPdf	Z	21:38:59.5	152.2	6.1			
	e	PKPbc	Z	21:39:06.2					
	e	PKPab	Z	21:39:15.9					
FUR	e	PKPdf	Z	21:38:59.7	152.6	10.4			
	e	PKPbc	Z	21:39:07.4					
BFO	e	PKPdf	Z	21:38:59.8	152.6	4.5			
	e	PKPbc	Z	21:39:07.3					
	e	PKPab	Z	21:39:18.0					

RJOB	e PKPdf	Z	21:38:59.5	152.8	13.7	
	e PKPbc	Z	21:39:07.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	02:15:58.5	22.980S	175.250W	33.0N				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	02:35:42.4	148.8	9.9					
NRDL	e PKPbc	Z	02:35:46.0	150.2	10.0					
IBBN	e PKPbc	Z	02:35:47.1	150.6	5.6					
CLZ	e PKPbc	Z	02:35:47.9	150.8	10.7					
CLL	e PKPbc	Z	02:35:48.1	151.0	15.8					
BRG	e PKPbc	Z	02:35:48.9	151.2	17.8					
BUG	e PKPbc	Z	02:35:49.0	151.5	4.9					
MOX	e PKPbc	Z	02:35:50.1	151.8	13.5					
WERD	e PKPbc	Z	02:35:50.3	151.9	14.9					
TANN	e PKPbc	Z	02:35:50.5	151.9	15.2					
GUNZ	e PKPbc	Z	02:35:50.3	152.0	15.0					
WERN	e PKPbc	Z	02:35:50.8	152.0	15.1					
TNS	e PKPbc	Z	02:35:52.0	152.6	7.4					
	e PKPab	Z	02:36:00.8							
GRFO	e PKPbc	Z	02:35:52.8	152.8	13.1					
GEC2	e PKPbc	Z	02:35:53.2	153.2	18.5					
	e PKPab	Z	02:36:03.5							
WLF	e PKPbc	Z	02:35:53.8	153.3	2.9					
	e PKPab	Z	02:36:04.6							
RJOB	e PKPbc	Z	02:35:55.9	154.4	17.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	04:41:24.9	21.400S	177.010W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:01:03.1	147.0	12.6					
NRDL	e PKPbc	Z	05:01:07.2	148.4	12.7					
IBBN	e PKPbc	Z	05:01:09.8	148.9	8.6					
CLZ	e PKPbc	Z	05:01:09.2	149.0	13.4					
CLL	e PKPbc	Z	05:01:10.0	149.1	18.4					
	e PKPab	Z	05:01:13.9							
BRG	e PKPbc	Z	05:01:10.3	149.3	20.3					
	e PKPab	Z	05:01:14.8							
BUG	e PKPbc	Z	05:01:11.8	149.8	7.9					
	e PKPab	Z	05:01:16.8							
MOX	e PKPbc	Z	05:01:12.1	150.0	16.2					

	e PKPab	Z	05:01:17.6		
TANN	e PKPbc	Z	05:01:12.3	150.0	17.9
	e PKPab	Z	05:01:17.9		
UBBA	e PKPbc	Z	05:01:12.1	150.1	13.2
TNS	e PKPbc	Z	05:01:14.4	150.9	10.5
	e PKPab	Z	05:01:21.0		
GRA1	e PKPbc	Z	05:01:14.6	151.0	15.9
	e PKPab	Z	05:01:22.3		
WET	e PKPbc	Z	05:01:15.1	151.2	19.4
	e PKPab	Z	05:01:23.0		
GEC2	e PKPbc	Z	05:01:15.3	151.3	21.1
	e PKPab	Z	05:01:23.0		
WLF	e PKPbc	Z	05:01:16.5	151.6	6.2
	e PKPab	Z	05:01:25.4		
STU	e PKPbc	Z	05:01:17.9	152.2	12.5
	e PKPab	Z	05:01:27.0		
FUR	e PKPbc	Z	05:01:17.7	152.4	16.8
	e PKPab	Z	05:01:28.3		
RJOB	e PKPbc	Z	05:01:18.0	152.5	20.1
	e PKPab	Z	05:01:28.8		
BFO	e PKPbc	Z	05:01:17.8	152.7	10.9
	e PKPab	Z	05:01:28.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	05:08:51.5	13.050N	60.160W	33.0N	5.3			SZGRF

Windward Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	05:19:28.0	64.8	260.3	1.0	28	5.4		
BUG	e P	Z	05:19:33.9	65.8	260.4	1.0	26	5.4		
BFO	e P	Z	05:19:35.3	66.0	262.7	1.2	10	4.9		
IBBN	e P	Z	05:19:37.6	66.3	260.5	0.8	37	5.7		
TNS	e P	Z	05:19:37.5	66.4	261.9	0.9	50	5.7		
STU	e P	Z	05:19:39.1	66.7	263.1	0.6	19	5.5		
NRDL	e P	Z	05:19:46.2	67.7	262.3	0.9	16	5.2		
CLZ	e P	Z	05:19:47.0	67.8	262.8	1.1	19	5.3		
FUR	e P	Z	05:19:48.4	68.0	265.0	0.5	22	5.7		
BSEG	e P	Z	05:19:47.7	68.0	261.9	1.0	18	5.3		
GRA1	e P	Z	05:19:49.0	68.1	264.4	1.4	33	5.4		
TANN	e P	Z	05:19:54.3	68.9	265.1	1.0	10	5.0		
WET	e P	Z	05:19:55.3	69.1	265.9	1.4	15	5.0		
CLL	e P	Z	05:19:56.7	69.4	265.2	0.8	10	5.1		
GEC2	e P	Z	05:19:58.4	69.6	266.6	1.2	21	5.2		
BRG	e P	Z	05:19:59.8	69.9	266.1	0.9	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	11:40:21.5	12.100N	91.710E	33.0N	6.5	6.7		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:51:48.7	72.9	91.7	1.6	689	6.5		
	e PP	Z	11:54:32.6							
	e S	T	12:01:13.9							
RUE	e P	Z	11:51:49.5	73.1	92.1	1.4	1486	6.9		
	e S	T	12:01:13.7							
RGN	e P	Z	11:51:51.9	73.4	92.3	1.4	950	6.6		
	e S	T	12:01:18.9							
CLL	e P	Z	11:51:51.7	73.5	91.1	1.4	519	6.4		
	e PP	Z	11:54:38.2							
	e S	T	12:01:19.2							
WET	e P	Z	11:51:52.3	73.6	90.4	1.4	535	6.4		
	e PP	Z	11:54:37.7							
	e S	T	12:01:21.6							
RJOB	e P	Z	11:51:51.7	73.6	89.9	1.1	312	6.2		
	e PP	Z	11:54:37.9							
	e S	T	12:01:19.6							
TANN	e P	Z	11:51:54.0	73.9	90.4	1.4	465	6.3		
	e PP	Z	11:54:40.6							
	e S	T	12:01:24.6							
WERN	e P	Z	11:51:54.4	73.9	90.3	1.1	232	6.1		
GUNZ	e P	Z	11:51:54.5	74.0	90.3	1.7	776	6.5		
WERD	e P	Z	11:51:54.4	74.0	90.3	1.5	538	6.4		
MOX	e P	Z	11:51:57.1	74.4	89.8	1.4	535	6.4		
	e PP	Z	11:54:45.3							
	e S	T	12:01:30.0							
FUR	e P	Z	11:51:57.9	74.7	88.9	1.3	593	6.5		
	e PP	Z	11:54:46.0							
	e S	T	12:01:31.3							
GRA1	e P	Z	11:51:58.9	74.7	89.3	1.3	1220	6.8		
	e PP	Z	11:54:46.8							
	e S	T	12:01:34.5							
	e L	Z	12:30:32.5			19.4	41258		6.7	
GRFO	e S	T	12:01:34.5	74.7	89.3					
CLZ	e P	Z	11:52:01.5	75.2	89.2	1.4	730	6.5		
	e PP	Z	11:54:50.5							
	e S	T	12:01:37.1							
BSEG	e P	Z	11:52:02.0	75.2	89.7	1.3	978	6.7		
	e S	T	12:01:38.9							
STU	e P	Z	11:52:05.9	76.0	87.5	1.6	616	6.5		
	e PP	Z	11:54:57.0							
	e S	T	12:01:47.9							
TNS	e P	Z	11:52:08.6	76.4	87.3	1.4	703	6.6		
	e PP	Z	11:55:01.7							
	e S	T	12:01:53.5							

BFO	e P	Z	11:52:08.9	76.6	86.7	1.3	464	6.5
	e PP	Z	11:55:01.8					
	e S	T	12:01:53.9					
HLG	e P	Z	11:52:10.0	76.6	87.8	1.3	638	6.6
	e PP	Z	11:55:03.5					
	e S	T	12:01:54.4					
IBBN	e P	Z	11:52:10.6	76.8	87.3	1.4	972	6.8
	e pS	T	12:02:10.7					
BUG	e P	Z	11:52:12.4	77.1	86.7	1.5	734	6.6
	e PP	Z	11:55:08.0					
	e S	T	12:01:59.9					
WLF	e P	Z	11:52:17.4	77.9	85.4	1.6	1124	6.7
	e PP	Z	11:55:14.0					
	e S	T	12:02:08.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	12:19:18.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	13:07:11.9	10.410N	90.980E	33.0N	5.6	5.6		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:18:43.0	73.8	93.4	1.2	54	5.5		
GEC2	e P	Z	13:18:43.4	73.8	92.6	1.2	76	5.6		
WET	e P	Z	13:18:46.7	74.4	92.1	1.2	66	5.6		
RJOB	e P	Z	13:18:46.1	74.4	91.6	1.0	33	5.3		
CLL	e P	Z	13:18:46.1	74.4	92.8	1.2	48	5.4		
TANN	e P	Z	13:18:48.3	74.7	92.1	1.3	44	5.3		
MOX	e P	Z	13:18:51.5	75.2	91.5	1.4	62	5.5		
FUR	e P	Z	13:18:52.3	75.4	90.6	1.2	64	5.5		
GRA1	e P	Z	13:18:53.3	75.5	91.0	1.2	125	5.9		
	e L	Z	14:01:56.1			20.5	3475		5.6	
CLZ	e P	Z	13:18:55.9	76.0	90.9	1.0	59	5.7		
BSEG	e P	Z	13:18:56.4	76.1	91.3	1.2	106	5.9		
NRDL	e P	Z	13:18:57.2	76.2	90.8	1.6	112	5.7		
UBBA	e P	Z	13:18:57.2	76.3	90.3	2.0	110	5.6		
STU	e P	Z	13:19:00.2	76.8	89.2	0.9	43	5.6		
TNS	e P	Z	13:19:03.0	77.3	89.0	1.3	86	5.7		
BFO	e P	Z	13:19:03.3	77.4	88.5	1.1	55	5.6		
IBBN	e P	Z	13:19:05.0	77.6	88.9	1.1	76	5.7		
BUG	e P	Z	13:19:06.8	78.0	88.3	1.1	68	5.7		

WLF	e P	Z	13:19:11.8	78.7	87.1	2.4	356	6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	13:57:27.8	37.315N	139.455E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:09:43.5	81.7	39.1	0.8	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:25:56.1			2.2	31			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	14:16:32.1	2.340N	95.550E	31.6	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:28:54.5	82.9	94.6	1.4	16	5.0		
BRG	e P	Z	14:28:54.7	82.9	95.1	1.8	18	5.0		
	e pP	Z	14:29:03.3							
WET	e P	Z	14:28:56.9	83.4	94.0	0.9	5	4.7		
	e pP	Z	14:29:06.3							
CLL	e P	Z	14:28:57.0	83.5	94.4	1.9	17	5.0		
GRA1	e P	Z	14:29:02.7	84.5	92.8	1.8	46	5.4		
BSEG	e P	Z	14:29:06.6	85.3	92.5	1.2	15	5.1		
	e pP	Z	14:29:15.9							
NRDL	e P	Z	14:29:07.2	85.4	92.2	1.5	33	5.4		
	e pP	Z	14:29:16.5							
IBBN	e pP	Z	14:29:23.4	86.8	90.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	16:51:41.9	28.402N	56.810E	33.0N	4.2			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:59:17.6	40.5	104.4	0.8	4	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	18:05:12.5	10.207N	91.258E	27.6	5.1	4.3		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:16:47.2	74.1	93.3	0.8	11	4.9		
GEC2	e P	Z	18:16:47.7	74.2	92.6	0.8	13	5.0		
	e pP	Z	18:16:55.7							
WET	e P	Z	18:16:50.8	74.7	92.0	1.4	20	5.0		
	e pP	Z	18:16:58.8							
CLL	e P	Z	18:16:50.3	74.7	92.7	1.3	19	5.0		
RJOB	e P	Z	18:16:50.3	74.7	91.6	1.3	12	4.8		
TANN	e P	Z	18:16:52.6	75.0	92.0	1.3	10	4.7		
ROTZ	e P	Z	18:16:54.0	75.2	91.7	1.1	19	5.0		
MOX	e P	Z	18:16:55.6	75.6	91.4	0.8	10	5.0		
GRA1	e P	Z	18:16:57.5	75.8	90.9	1.2	32	5.3		
	e L	Z	19:02:56.3			18.7	157		4.3	
CLZ	e P	Z	18:17:00.2	76.4	90.8	0.9	19	5.2		
BSEG	e P	Z	18:17:00.6	76.4	91.2	1.1	30	5.4		
NRDL	e P	Z	18:17:01.3	76.5	90.7	1.2	20	5.1		
	e pP	Z	18:17:09.1							
TNS	e P	Z	18:17:07.2	77.6	88.9	1.1	22	5.2		
BFO	e pP	Z	18:17:15.3	77.7	88.4					
IBBN	e P	Z	18:17:09.3	78.0	88.8	1.6	53	5.4		
WLF	e P	Z	18:17:15.6	79.1	87.0	1.0	16	5.0		
	e pP	Z	18:17:24.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	18:20:46.8	44.857N	149.588E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:32:46.7	78.7	28.7	0.8	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	19:40:35.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:42:44.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	20:57:34.8	10.079N	92.812E	23.6	4.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:09:24.2	76.9	89.8	0.9	4	4.5		
	e pP	Z	21:09:31.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	21:42: 9.4	32.129N	106.270E	28.6	4.9			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:53:12.4	69.1	64.6	1.8	13	4.9		
	e pP	Z	21:53:20.5			0.4	7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/27	23:34:40.2	15.330S	175.720W	41.6				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e PKPbc	Z	23:54:11.4	144.9	7.0					
GRA1	e PKPbc	Z	23:54:12.1	145.2	11.8					
WET	e PKPbc	Z	23:54:12.2	145.5	14.7					
	e pPKPbc	Z	23:54:25.6							
GEC2	e PKPbc	Z	23:54:14.5	145.6	16.2					
	e pPKPbc	Z	23:54:26.0							
WLF	e PKPbc	Z	23:54:13.8	145.6	3.2					
	e pPKPbc	Z	23:54:26.4							
STU	e pPKPbc	Z	23:54:28.0	146.3	8.6					
FUR	e PKPbc	Z	23:54:17.6	146.7	12.3					
BFO	e PKPbc	Z	23:54:18.2	146.8	7.2					
RJOB	e PKPbc	Z	23:54:17.6	146.8	15.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	03:27: 3.5	11.960N	90.350E	28.8	5.0			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:38:25.5	72.2	92.9	1.3	12	4.9		
GEC2	e P	Z	03:38:25.9	72.3	92.0	1.2	12	4.9		
CLL	e P	Z	03:38:28.6	72.8	92.3	1.2	9	4.8		
WET	e P	Z	03:38:29.4	72.8	91.5	1.3	12	4.9		
RJOB	e P	Z	03:38:28.6	72.8	91.0	1.2	7	4.7		
TANN	e P	Z	03:38:30.9	73.1	91.6	1.3	10	4.7		
ROTZ	e P	Z	03:38:32.7	73.3	91.2	1.3	17	4.9		
MOX	e P	Z	03:38:33.9	73.7	91.0	1.4	12	4.7		
FUR	e P	Z	03:38:35.3	73.9	90.0	2.6	81	5.3		
GRA1	e P	Z	03:38:36.2	73.9	90.4	0.8	16	5.1		
	e pP	Z	03:38:44.5							
CLZ	e P	Z	03:38:38.7	74.4	90.3	1.3	16	4.9		
BSEG	e P	Z	03:38:39.2	74.5	90.9	1.3	26	5.1		
NRDL	e P	Z	03:38:39.8	74.6	90.3	1.3	20	5.0		
TNS	e P	Z	03:38:45.9	75.7	88.4	1.1	14	5.0		
BFO	e P	Z	03:38:46.6	75.8	87.9	1.3	11	4.8		
IBBN	e P	Z	03:38:47.9	76.0	88.4	1.3	31	5.3		
BUG	e P	Z	03:38:50.0	76.4	87.8	1.5	35	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	03:34:25.0	10.711N	92.974E	33.0N	4.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:46:12.2	76.5	89.2	0.9	3	4.5		
	e pP	Z	03:46:20.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	04:35: 2.8	10.066N	91.644E	26.0	5.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:46:38.7	74.5	93.1	0.9	15	5.0		
GEC2	e P	Z	04:46:39.1	74.5	92.4	0.9	18	5.1		
RUE	e P	Z	04:46:39.5	74.7	93.4	0.7	41	5.6		
WET	e P	Z	04:46:42.3	75.1	91.8	1.0	15	5.0		
CLL	e P	Z	04:46:41.8	75.1	92.5	1.2	21	5.0		
TANN	e P	Z	04:46:44.0	75.4	91.8	1.2	16	4.9		
WERN	e P	Z	04:46:44.4	75.4	91.7	2.4	81	5.3		
GUNZ	e P	Z	04:46:44.6	75.5	91.7	0.9	14	5.1		
WERD	e P	Z	04:46:44.5	75.5	91.7	0.9	13	5.1		
MOX	e P	Z	04:46:47.1	75.9	91.2	1.6	34	5.2		
GRA1	e P	Z	04:46:49.0	76.2	90.7	1.0	33	5.4		

CLZ	e P	Z	04:46:51.6	76.7	90.6	0.8	21	5.3
BSEG	e P	Z	04:46:52.1	76.8	91.0	1.0	37	5.5
NRDL	e P	Z	04:46:52.8	76.9	90.5	1.4	32	5.3
TNS	e P	Z	04:46:58.7	77.9	88.7	1.1	34	5.4
BFO	e P	Z	04:46:58.9	78.1	88.2	1.1	18	5.1
IBBN	e P	Z	04:47:00.7	78.3	88.6	1.0	34	5.4
BUG	e P	Z	04:47:02.5	78.6	88.0	1.1	22	5.1
WLF	e P	Z	04:47:07.4	79.4	86.8	1.3	32	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	08:56:58.9	32.827S	16.437W	33.0N	5.6	4.9		SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	09:09:26.4	84.1	200.7	1.2	48	5.6		
	e PP	Z	09:12:40.1							
FUR	e P	Z	09:09:29.7	84.7	203.1	1.5	135	6.0		
	e PP	Z	09:12:44.8							
RJOB	e P	Z	09:09:29.0	84.7	204.3	1.7	51	5.5		
	e PP	Z	09:12:44.5							
STU	e P	Z	09:09:29.8	84.7	201.4	1.4	78	5.8		
WLF	e P	Z	09:09:31.3	84.9	198.9	1.6	95	5.8		
	e PP	Z	09:12:47.2							
TNS	e P	Z	09:09:36.4	85.9	200.8	1.4	85	5.7		
	e PP	Z	09:12:55.0							
GEC2	e P	Z	09:09:35.8	86.0	205.0	1.6	37	5.3		
	e PP	Z	09:12:54.8							
WET	e P	Z	09:09:36.2	86.0	204.4	1.6	91	5.7		
	e PP	Z	09:12:55.2							
GRA1	e P	Z	09:09:36.8	86.1	203.0	1.7	166	5.9		
	e L	Z	09:45:45.7			19.0	520		4.9	
BUG	e P	Z	09:09:41.0	86.8	199.8	1.5	69	5.6		
	e PP	Z	09:13:02.3							
UBBA	e P	Z	09:09:42.7	86.8	202.0	1.7	50	5.4		
	e PP	Z	09:13:01.3							
MOX	e P	Z	09:09:41.6	87.1	203.3	1.7	37	5.2		
TANN	e P	Z	09:09:41.7	87.1	204.0	1.6	59	5.5		
IBBN	e P	Z	09:09:45.8	87.7	200.2	1.5	66	5.5		
CLZ	e P	Z	09:09:46.1	87.9	202.3	1.5	30	5.4		
	e PP	Z	09:13:09.9							
BRG	e P	Z	09:09:45.7	87.9	205.2	1.6	23	5.2		
CLL	e P	Z	09:09:46.4	88.0	204.4	1.6	44	5.5		
	e PP	Z	09:13:11.0							
NRDL	e P	Z	09:09:49.5	88.4	202.1	1.7	82	5.8		
	e PP	Z	09:13:14.3							
BSEG	e P	Z	09:09:55.6	89.8	202.2	1.4	79	5.8		
	e PP	Z	09:13:26.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	11:41:35.8	31.435S	17.742W	33.0N	4.8			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:54:08.9	85.1	204.5	1.2	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	12:10:44.5	6.500S	154.900E	32.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	12:29:41.9	125.1	49.9					
CLL	e PKPdf	Z	12:29:42.2	125.2	48.7					
CLZ	e PKPdf	Z	12:29:43.8	126.1	45.5					
GEC2	e PKPdf	Z	12:29:44.6	126.5	50.8					
GRA1	e PKP	Z	12:29:45.1	127.2	47.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	12:54:51.3	10.785N	91.136E	33.0N	5.8	5.9		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:06:21.3	73.6	93.0	1.1	88	5.7		
	e S	T	13:15:57.7							
GEC2	e P	Z	13:06:21.7	73.6	92.3	1.0	101	5.8		
	e S	T	13:15:58.1							
CLL	e P	Z	13:06:24.4	74.2	92.4	1.1	95	5.7		
	e S	T	13:16:03.2							
WET	e P	Z	13:06:24.9	74.2	91.7	1.1	85	5.7		
	e S	T	13:16:05.1							
RJOB	e P	Z	13:06:24.3	74.2	91.3	1.0	59	5.6		
	e S	T	13:16:02.7							
TANN	e P	Z	13:06:26.6	74.5	91.8	1.1	66	5.6		
	e S	T	13:16:09.1							
MOX	e P	Z	13:06:29.7	75.0	91.2	1.2	95	5.7		
	e S	T	13:16:14.2							
FUR	e P	Z	13:06:30.5	75.2	90.2	1.3	124	5.8		
	e S	T	13:16:14.5							
GRA1	e P	Z	13:06:31.5	75.3	90.6	1.1	194	6.1		
	e PP	Z	13:09:18.2							
	e S	T	13:16:17.7							

	e L	Z	13:44:56.4			19.6	5924		5.9
CLZ	e P	Z	13:06:34.2	75.8	90.5	1.0	130	6.0	
	e S	T	13:16:20.7						
BSEG	e P	Z	13:06:34.6	75.9	91.0	1.1	216	6.2	
	e S	T	13:16:21.7						
UBBA	e P	Z	13:06:35.3	76.1	89.9	1.5	49	5.4	
	e S	T	13:16:24.5						
STU	e P	Z	13:06:38.6	76.6	88.8	1.1	63	5.7	
	e S	T	13:16:30.8						
TNS	e P	Z	13:06:41.3	77.1	88.6	1.1	137	6.0	
	e S	T	13:16:36.5						
BFO	e P	Z	13:06:41.5	77.2	88.1	1.1	84	5.8	
	e S	T	13:16:37.0						
IBBN	e P	Z	13:06:43.3	77.4	88.5	1.1	173	6.1	
	e S	T	13:16:37.7						
BUG	e P	Z	13:06:45.0	77.8	88.0	1.1	119	5.9	
	e S	T	13:16:42.8						
WLF	e P	Z	13:06:50.0	78.6	86.7	1.2	115	5.8	
	e S	T	13:16:52.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	13:31: 7.6	11.028N	91.384E	33.0N	4.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:42:47.6	75.3	90.2	1.0	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	13:53: 1.1	11.566N	92.259E	33.0N	4.7			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:04:42.1	75.4	89.2	0.9	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	13:57: 9.3	10.869N	91.455E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:08:39.8	73.7	92.7	0.8	6	4.7		
GEC2	e P	Z	14:08:40.2	73.8	92.0	0.8	8	4.8		
CLL	e P	Z	14:08:42.3	74.3	92.1	0.7	6	4.7		
WET	e P	Z	14:08:43.4	74.3	91.4	1.4	11	4.7		

RJOB	e P	Z	14:08:44.0	74.4	91.0	0.9	6	4.6
TANN	e P	Z	14:08:45.2	74.6	91.4	1.4	8	4.5
MOX	e P	Z	14:08:48.3	75.2	90.9	0.8	7	4.8
GRA1	e P	Z	14:08:50.3	75.4	90.3	1.2	20	5.0
CLZ	e P	Z	14:08:52.8	76.0	90.2	0.7	13	5.2
BSEG	e P	Z	14:08:53.3	76.0	90.7	1.0	19	5.2
NRDL	e P	Z	14:08:53.9	76.1	90.1	1.0	9	4.9
TNS	e P	Z	14:08:59.7	77.2	88.3	0.7	10	5.1
BFO	e P	Z	14:09:00.3	77.3	87.8	1.0	6	4.7
IBBN	e P	Z	14:09:02.0	77.6	88.2	0.9	17	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	14:30:13.4	12.097N	92.008E	24.8	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:41:52.4	74.9	89.0	1.3	7	4.6		
	e pP	Z	14:41:59.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	15:29:11.4	9.766N	91.255E	25.2	5.5	4.9		SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:40:46.2	74.4	93.6	1.8	80	5.5		
GEC2	e P	Z	15:40:46.6	74.5	92.9	1.1	38	5.3		
WET	e P	Z	15:40:49.8	75.0	92.3	1.3	40	5.3		
RJOB	e P	Z	15:40:49.2	75.0	91.9	1.1	23	5.1		
CLL	e P	Z	15:40:49.3	75.1	93.0	1.6	63	5.4		
TANN	e P	Z	15:40:51.6	75.4	92.3	1.5	38	5.2		
MOX	e P	Z	15:40:54.6	75.9	91.7	1.6	62	5.5		
FUR	e P	Z	15:40:55.4	76.1	90.9	1.3	44	5.4		
GRA1	e P	Z	15:40:56.4	76.1	91.2	1.4	102	5.8		
	e pP	Z	15:41:03.7							
	e L	Z	16:19:12.7			20.5	660		4.9	
CLZ	e P	Z	15:40:59.1	76.7	91.1	1.1	40	5.5		
BSEG	e P	Z	15:40:59.5	76.8	91.5	1.3	86	5.7		
NRDL	e P	Z	15:41:00.3	76.9	91.0	1.9	125	5.7		
UBBA	e P	Z	15:41:00.3	76.9	90.5	2.6	136	5.6		
STU	e P	Z	15:41:03.5	77.5	89.4	2.2	140	5.7		
TNS	e P	Z	15:41:06.2	77.9	89.2	1.2	46	5.5		
BFO	e P	Z	15:41:06.4	78.0	88.7	1.3	33	5.3		
IBBN	e P	Z	15:41:08.2	78.3	89.1	1.4	98	5.7		
BUG	e P	Z	15:41:09.9	78.6	88.5	1.5	71	5.5		
WLF	e P	Z	15:41:14.9	79.4	87.3	1.9	138	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	15:55: 9.5	11.094N	92.504E	33.0N	4.7			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:06:42.9	74.2	91.8	0.7	5	4.7		
GEC2	e P	Z	16:06:43.3	74.3	91.0	0.7	5	4.6		
RUE	e P	Z	16:06:44.2	74.4	92.1					
CLL	e P	Z	16:06:46.7	74.8	91.1	1.2	8	4.6		
WET	e P	Z	16:06:47.0	74.9	90.5	0.8	5	4.6		
RJOB	e P	Z	16:06:46.0	74.9	90.0	0.8	4	4.5		
GUNZ	e P	Z	16:06:49.4	75.2	90.4					
WERD	e P	Z	16:06:49.3	75.2	90.4					
MOX	e P	Z	16:06:51.6	75.7	89.9	0.7	6	4.8		
GRA1	e P	Z	16:06:53.4	75.9	89.3	0.7	12	5.1		
CLZ	e P	Z	16:06:56.4	76.4	89.2	0.7	12	5.1		
BSEG	e P	Z	16:06:57.4	76.5	89.7	1.0	14	5.1		
UBBA	e P	Z	16:06:58.2	76.7	88.7	0.7	3	4.5		
TNS	e P	Z	16:07:03.5	77.7	87.4	0.9	8	4.8		
BUG	e P	Z	16:07:07.7	78.4	86.7	0.6	3	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	16:28:57.6	14.612N	92.780W	29.3	5.1	4.7		SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:41:43.1	87.7	290.0	1.7	16	5.1		
	e pP	Z	16:41:51.6							
	e L	Z	17:17:45.5			20.6	283		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	17:16:55.2	10.637N	92.991E	33.0N	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:28:42.9	76.6	89.3	1.2	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	17:20:32.3	22.250S	180.000W	625.4				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:39:06.9	147.4	17.9					
NRDL	e PKPbc	Z	17:39:10.3	148.8	18.3					
CLL	e PKPbc	Z	17:39:11.5	149.2	24.0					
	e PKPab	Z	17:39:18.3							
CLZ	e PKPbc	Z	17:39:12.4	149.3	19.1					
	e PKPab	Z	17:39:19.4							
IBBN	e PKPbc	Z	17:39:12.0	149.4	14.2					
	e PKPab	Z	17:39:19.2							
BRG	e PKPbc	Z	17:39:12.1	149.4	26.0					
MOX	e PKPbc	Z	17:39:13.9	150.2	22.0					
	e PKPab	Z	17:39:22.6							
TANN	e PKPbc	Z	17:39:13.5	150.2	23.7					
	e PKPab	Z	17:39:22.9							
BUG	e PKPbc	Z	17:39:13.7	150.3	13.7					
GRA1	e PKPbc	Z	17:39:15.9	151.2	21.9					
	e PKPab	Z	17:39:27.0							
	e pPKPbc	Z	17:41:38.4							
WET	e PKPab	Z	17:39:27.7	151.2	25.4					
TNS	e PKPbc	Z	17:39:16.4	151.3	16.4					
GEC2	e PKPbc	Z	17:39:16.3	151.3	27.1					
WLF	e PKPbc	Z	17:39:18.7	152.2	12.3					
STU	e PKPbc	Z	17:39:19.0	152.5	18.7					
RJOB	e PKPab	Z	17:39:33.7	152.5	26.4					
FUR	e PKPab	Z	17:39:33.5	152.6	23.1					
BFO	e PKPbc	Z	17:39:20.3	153.1	17.2					
	e PKPab	Z	17:39:34.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	20:17:55.5	10.041N	92.583E	33.0N	4.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:29:44.2	76.8	90.0	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	21:14:15.2	10.300S	161.900E	51.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	21:33:23.8	131.7	44.3					
CLL	e PKPdf	Z	21:33:24.2	131.8	43.0					
GUNZ	e PKPdf	Z	21:33:26.5	132.8	42.7					
WERN	e PKPdf	Z	21:33:26.5	132.8	42.8					

NKC	e PKPdf	Z	21:33:26.3	132.8	43.0
GRA1	e PKPdf	Z	21:33:26.6	133.7	41.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	23:29: 2.4	26.100N	44.800W	10.0	4.6	4.0		NEIC

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:37:45.5	48.7	262.5	1.2	7	4.6		
	e L	Z	23:54:13.7			20.6	169		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/28	23:55:31.4	32.593N	103.421E	33.0N	4.7			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:06:21.8	67.1	66.1	1.2	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	00:32:14.4	10.550N	90.840E	33.0N	4.8	4.3		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:43:45.7	73.6	93.4	1.0	6	4.6		
GEC2	e P	Z	00:43:46.1	73.6	92.6	1.1	10	4.8		
WET	e P	Z	00:43:49.3	74.2	92.1	1.3	10	4.7		
RJOB	e P	Z	00:43:48.7	74.2	91.6	1.4	12	4.7		
CLL	e P	Z	00:43:48.8	74.2	92.8	1.2	11	4.7		
TANN	e P	Z	00:43:50.9	74.5	92.1	1.3	9	4.6		
MOX	e P	Z	00:43:54.2	75.0	91.5	1.6	14	4.8		
FUR	e P	Z	00:43:54.9	75.2	90.6	1.3	10	4.7		
GRA1	e P	Z	00:43:56.0	75.3	91.0	1.0	15	5.0		
	e L	Z	01:24:10.5			18.9	162		4.3	
CLZ	e P	Z	00:43:58.5	75.8	90.9	1.0	10	4.9		
BSEG	e P	Z	00:43:59.2	75.9	91.4	1.1	20	5.2		
NRDL	e P	Z	00:43:59.7	76.0	90.8	1.1	10	4.8		
TNS	e P	Z	00:44:05.7	77.1	89.0	1.2	10	4.8		
BFO	e P	Z	00:44:05.9	77.2	88.5	1.2	8	4.7		
IBBN	e P	Z	00:44:07.8	77.4	88.9	1.2	17	5.1		
BUG	e P	Z	00:44:09.5	77.8	88.4	1.2	12	4.9		
WLF	e P	Z	00:44:14.4	78.6	87.1	1.3	22	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	02:03:38.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	04:14:41.8	10.638N	90.744E	33.0N	4.9	4.6		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:26:11.0	73.5	93.4	1.2	10	4.8		
GEC2	e P	Z	04:26:11.4	73.5	92.7	1.0	9	4.7		
WET	e P	Z	04:26:14.7	74.1	92.1	1.4	16	4.9		
RJOB	e P	Z	04:26:14.2	74.1	91.7	1.1	7	4.6		
CLL	e P	Z	04:26:14.2	74.1	92.8	1.0	8	4.7		
TANN	e P	Z	04:26:15.7	74.4	92.2	1.2	7	4.6		
MOX	e P	Z	04:26:19.1	74.9	91.6	1.4	15	4.8		
GRA1	e P	Z	04:26:21.2	75.1	91.0	1.2	28	5.2		
	e S	T	04:36:05.1							
	e L	Z	05:10:58.7			18.9	291		4.6	
CLZ	e P	Z	04:26:23.8	75.7	90.9	1.0	10	4.9		
BSEG	e P	Z	04:26:24.6	75.8	91.4	1.1	21	5.2		
NRDL	e P	Z	04:26:24.8	75.9	90.9	1.4	26	5.1		
STU	e P	Z	04:26:27.9	76.5	89.2	0.7	5	4.8		
TNS	e P	Z	04:26:30.9	76.9	89.0	1.4	21	5.1		
BFO	e P	Z	04:26:31.6	77.0	88.5	1.1	8	4.8		
BUG	e P	Z	04:26:34.9	77.6	88.4	1.0	8	4.8		
WLF	e P	Z	04:26:39.9	78.4	87.1	1.3	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:51:38.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	09:42:26.1	14.612N	92.780W	33.0N	5.2	5.2		SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	09:54:57.8	84.5	286.2	1.6	63	5.6		

IBBN	e	P	Z	09:54:58.7	84.8	287.2	1.3	33	5.4
BSEG	e	P	Z	09:55:02.7	85.7	289.1	1.2	28	5.3
TNS	e	P	Z	09:55:03.5	85.8	287.9	1.3	48	5.5
NRDL	e	P	Z	09:55:04.5	86.1	289.0	1.5	27	5.1
BFO	e	P	Z	09:55:04.8	86.3	287.9	1.6	20	5.0
CLZ	e	P	Z	09:55:06.2	86.4	289.2	2.0	58	5.4
UBBA	e	P	Z	09:55:06.4	86.5	289.0	4.9	482	5.9
STU	e	P	Z	09:55:07.9	86.7	288.5	1.8	47	5.3
MOX	e	P	Z	09:55:10.8	87.6	290.3	2.0	44	5.4
GRA1	e	P	Z	09:55:11.6	87.7	290.0	1.6	46	5.5
	e	L	Z	10:31:05.1			20.6	920	5.2
TANN	e	P	Z	09:55:13.9	88.1	290.9	1.7	22	5.2
BRG	e	P	Z	09:55:18.2	88.9	292.0	1.1	5	4.6
WET	e	P	Z	09:55:17.0	88.9	291.3	1.5	14	5.0
RJOB	e	P	Z	09:55:18.3	89.3	291.2	1.9	16	4.9
GEC2	e	P	Z	09:55:20.7	89.5	291.9	1.0	5	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	12:47:29.6	35.860N	88.520E	33.0N	5.3	5.4		SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z 12:56:50.5	53.8	75.5	1.4	30	5.1		
CLL	e	P	Z 12:56:53.5	54.3	75.2	1.3	32	5.2		
GEC2	e	P	Z 12:56:55.8	54.5	73.9	1.5	49	5.3		
TANN	e	P	Z 12:56:58.0	54.8	74.2	1.4	31	5.1		
WET	e	P	Z 12:56:58.9	54.9	73.6	1.5	31	5.1		
BSEG	e	P	Z 12:57:00.9	55.2	75.1	1.2	44	5.4		
MOX	e	P	Z 12:57:01.2	55.3	73.8	1.3	26	5.1		
RJOB	e	P	Z 12:57:02.1	55.4	72.6	1.6	25	5.0		
NRDL	e	P	Z 12:57:04.4	55.7	74.0	1.3	72	5.6		
CLZ	e	P	Z 12:57:04.3	55.7	73.8	1.1	41	5.4		
GRA1	e	P	Z 12:57:05.4	55.8	72.9	1.4	69	5.5		
	e	S	R 13:04:49.6							
	e	L	Z 13:23:00.3			20.9	3157		5.4	
UBBA	e	P	Z 12:57:07.6	56.2	72.9	1.5	28	5.1		
FUR	e	P	Z 12:57:08.5	56.2	72.0	1.7	88	5.5		
IBBN	e	P	Z 12:57:14.2	57.1	72.3	1.3	32	5.2		
TNS	e	P	Z 12:57:15.9	57.3	71.5	1.2	31	5.2		
STU	e	P	Z 12:57:15.9	57.4	71.1	1.4	52	5.4		
BFO	e	P	Z 12:57:20.4	58.0	70.3	1.4	32	5.2		
WLF	e	P	Z 12:57:27.4	58.9	69.7	1.2	31	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	16:53:23.3	14.016N	93.408W	33.0N	4.9			SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:06:12.8	88.5	290.1	1.8	16	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	17:02:31.9	53.774N	170.589W	47.3	5.0	4.9		SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:13:54.6	72.3	0.6	1.3	18	5.1		
NRDL	e P	Z	17:14:02.7	73.7	0.4	1.1	11	4.8		
IBBN	e P	Z	17:14:03.9	73.9	359.0	1.7	65	5.4		
CLZ	e P	Z	17:14:06.9	74.4	0.6	0.8	10	4.9		
BUG	e P	Z	17:14:08.4	74.8	358.7	0.7	13	5.1		
CLL	e P	Z	17:14:09.0	74.9	2.2	0.6	7	4.8		
BRG	e P	Z	17:14:11.6	75.3	2.8	1.5	26	5.1		
UBBA	e P	Z	17:14:12.1	75.4	0.4	1.6	21	5.0		
MOX	e P	Z	17:14:13.3	75.6	1.3	0.9	9	4.9		
TANN	e P	Z	17:14:14.6	75.8	1.9	1.5	14	4.9		
TNS	e P	Z	17:14:15.7	76.0	359.4	1.5	29	5.2		
GRA1	e P	Z	17:14:19.1	76.5	1.1	1.3	39	5.4		
	e pP	Z	17:14:32.7							
	e L	Z	17:50:12.8			18.8	564		4.9	
WLF	e P	Z	17:14:18.9	76.5	358.0	0.9	11	5.0		
WET	e P	Z	17:14:21.9	77.0	2.1	1.5	21	5.0		
GEC2	e P	Z	17:14:23.2	77.3	2.6	1.4	19	5.0		
STU	e P	Z	17:14:23.7	77.5	359.9	0.6	11	5.2		
BFO	e P	Z	17:14:26.1	77.9	359.3	1.2	16	5.0		
FUR	e P	Z	17:14:27.4	78.1	1.1	0.7	13	5.1		
RJOB	e P	Z	17:14:29.4	78.4	2.0	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	19:33:48.5	44.475N	130.358W	33.0N	4.6	5.1		SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:45:55.3	80.1	333.2	1.9	15	4.6		
	e L	Z	20:23:21.8			18.3	755		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	19:55:22.1	2.300N	97.000E	35.0	4.4			NEIC

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:07:57.8	85.5	91.7	0.8	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/29	20:53:13.7	46.563N	137.000E	314.8N	6.2			SZGRF

Primorye, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	21:03:41.1	68.3	38.0	1.1	245	6.3		
	e S	T	21:12:24.1							
RUE	e P	Z	21:03:49.8	69.7	37.8	1.0	228	6.3		
	e S	T	21:12:39.7							
BSEG	e P	Z	21:03:50.4	69.8	36.0	0.9	140	6.1		
	e S	T	21:12:42.0							
HLG	e P	Z	21:03:54.4	70.4	34.5	0.8	405	6.6		
	e S	T	21:12:48.2							
BRG	e P	Z	21:03:56.7	70.9	37.6	1.7	232	6.0		
	e S	T	21:12:54.0							
CLL	e P	Z	21:03:56.6	70.9	37.1	0.7	247	6.4		
	e S	T	21:12:53.6							
NRDL	e P	Z	21:03:57.5	71.1	35.5	0.8	106	6.0		
	e S	T	21:12:55.3							
CLZ	e P	Z	21:04:00.5	71.5	35.6	0.7	309	6.5		
	e S	T	21:13:00.5							
TANN	e P	Z	21:04:02.3	71.9	36.6	1.2	79	5.7		
	e S	T	21:13:05.0							
MOX	e P	Z	21:04:03.2	72.0	36.1	1.2	145	6.0		
	e S	T	21:13:06.1							
IBBN	e P	Z	21:04:03.2	72.0	34.0	0.8	189	6.3		
	e S	T	21:13:05.1							
UBBA	e P	Z	21:04:05.9	72.5	35.2	1.8	306	6.1		
	e S	T	21:13:10.9							
GEC2	e P	Z	21:04:06.8	72.6	37.0	0.7	80	5.9		
	e S	T	21:13:14.6							
WET	e P	Z	21:04:07.9	72.7	36.6	0.8	161	6.2		
	e S	T	21:13:15.9							
BUG	e P	Z	21:04:08.3	72.9	33.6	0.9	214	6.3		
	e S	T	21:13:16.3							
GRA1	e P	Z	21:04:09.0	72.9	35.7	0.8	471	6.7		
	e pP	Z	21:05:20.6							
	e sP	Z	21:05:52.1							
	e S	T	21:13:17.6							
TNS	e P	Z	21:04:11.9	73.5	34.1	0.8	175	6.2		
	e S	T	21:13:23.4							
RJOB	e P	Z	21:04:14.7	73.9	36.3	0.9	226	6.2		
	e S	T	21:13:30.0							

FUR	e P	Z	21:04:15.9	74.1	35.5	0.8	264	6.3
	e S	T	21:13:31.2					
STU	e P	Z	21:04:17.3	74.4	34.3	0.9	222	6.2
	e S	T	21:13:34.2					
WLF	e P	Z	21:04:19.2	74.8	32.6	0.9	101	5.9
	e S	T	21:13:38.1					
BFO	e P	Z	21:04:21.1	75.1	33.7	0.8	175	6.1
	e S	T	21:13:41.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/30	00:53: 2.1	44.682N	130.053W	33.0N	4.3			SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:05:07.4	79.8	333.1	1.3	5	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/30	02:10: 7.6	11.300N	91.700E	33.0	4.6			GSRC

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:21:48.6	75.3	89.8	1.9	13	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/30	04:05:59.6	38.400S	93.200W	10.0		4.9		NEIC

West Chile Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	04:25:03.1	126.9	251.6					
	e L	Z	05:16:07.2			21.0	241		4.9	
MOX	e PKPdf	Z	04:25:02.9	127.4	252.5					
PLN	e PKPdf	Z	04:25:03.2	127.7	252.7					
WET	e PKPdf	Z	04:25:03.3	127.7	252.2					
GUNZ	e PKPdf	Z	04:25:03.4	127.7	252.7					
TANN	e PKPdf	Z	04:25:03.8	127.8	252.9					
GEC2	e PKPdf	Z	04:25:03.9	128.1	252.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/06/30	06:17:27.1	59.297S	22.789W	10.0		7.0		SZGRF

South Sandwich Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PP	Z	06:36:36.0	110.6	196.4					
	e Sdiff	T	06:44:22.1							
	e SS	R	06:51:55.2							
RJOB	e PP	Z	06:36:38.5	110.9	198.5					
	e Sdiff	T	06:44:21.2							
	e SS	R	06:52:05.4							
FUR	e PP	Z	06:36:38.8	111.0	197.8					
	e Sdiff	T	06:44:23.3							
STU	e PP	Z	06:36:40.4	111.2	196.9					
	e Sdiff	T	06:44:26.9							
	e SS	R	06:52:06.7							
WLF	e PP	Z	06:36:43.1	111.5	195.4					
	e Sdiff	T	06:44:30.6							
	e SS	R	06:52:01.5							
GEC2	e PP	Z	06:36:47.5	112.2	199.1					
	e Sdiff	T	06:44:32.0							
	e SS	R	06:52:14.2							
WET	e PP	Z	06:36:48.3	112.3	198.8					
	e Sdiff	T	06:44:34.0							
	e SS	R	06:52:12.1							
TNS	e PP	Z	06:36:49.3	112.4	196.6					
	e Sdiff	T	06:44:38.8							
	e SS	R	06:52:20.5							
GRA1	e Pdiff	Z	06:32:26.4	112.5	198.0					
	e PP	Z	06:36:49.3							
	e Sdiff	T	06:44:35.9							
	e PS	R	06:46:21.4							
	e SS	R	06:52:17.5							
	e L	Z	07:17:33.4			21.9	38864		7.0	
UBBA	e PP	Z	06:36:55.1	113.3	197.5					
	e Sdiff	T	06:44:45.5							
	e SS	R	06:52:26.8							
BUG	e PP	Z	06:36:56.4	113.4	196.2					
	e Sdiff	T	06:44:48.1							
	e SS	R	06:52:33.4							
TANN	e PP	Z	06:36:56.4	113.4	198.7					
	e Sdiff	T	06:44:45.2							
	e SS	R	06:52:30.9							
MOX	e PP	Z	06:36:56.3	113.4	198.3					
	e Sdiff	T	06:44:46.1							
	e SS	R	06:52:31.1							
BRG	e PP	Z	06:37:01.6	114.1	199.5					
	e Sdiff	T	06:44:51.3							
	e SS	R	06:52:40.0							
IBBN	e PP	Z	06:37:02.7	114.3	196.5					
	e Sdiff	T	06:44:55.6							
	e SS	R	06:52:39.5							
CLZ	e PP	Z	06:37:03.4	114.3	197.8					

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                    e Sdiff     T  06:44:54.6
                    e SS        R  06:52:46.5
               CLL  e PP        Z  06:37:03.0   114.3  199.1
                    e Sdiff     T  06:44:53.0
                    e SS        R  06:52:42.3
               NRDL e PP        Z  06:37:07.4   114.9  197.8
                    e Sdiff     T  06:44:59.4
                    e SS        R  06:52:41.6
               BSEG e PP        Z  06:37:16.6   116.3  198.1
                    e Sdiff     T  06:45:09.9
                    e SS        R  06:53:05.3
```

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

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin.
Additionally, some selected events are analysed more comprehensively at CLL-station and included in the bulletin (ISOP-analysis).
Each event is reported by several EPICENTER LINES with possible COMMENT LINES, a REGION LINE and a block of PHASE LINES.

EPICENTER LINES:

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

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

COMMENT LINE:

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

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

PHASE LINE:

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