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

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

MAY 2005 UPDATED 10.AUGUST.2005

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
2005/05/01	01:05:58.8	78.390N	0.060E	33.0N	4.4			SZGRF

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	01:11:32.4	26.1	355.4	1.5	14	4.4		
CLZ	e P	Z	01:11:38.5	26.8	355.4	1.7	16	4.5		
WERD	e P	Z	01:11:51.5	28.3	354.8	1.8	10	4.3		
GUNZ	e P	Z	01:11:52.4	28.4	354.8	2.1	18	4.5		
NOTT	e P	Z	01:11:57.1	28.9	355.0	1.2	3	4.0		
GRA1	e P	Z	01:11:58.0	29.0	355.4	1.2	9	4.5		
WET	e P	Z	01:12:03.5	29.6	354.8	1.7	9	4.3		
GEC2	e P	Z	01:12:07.0	30.0	354.5	2.0	21	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	01:55:48.0	32.510N	71.360E	33.0N				SZGRF

Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:04:04.5	45.3	91.1	1.2	9	4.5		
RUE	e P	Z	02:04:05.4	45.4	92.5	0.7	9	4.9		
GEC2	e P	Z	02:04:05.3	45.4	88.9	1.1	7	4.6		
CLL	e P	Z	02:04:08.3	45.9	90.7	0.8	3	4.3		
GUNZ	e P	Z	02:04:12.4	46.3	89.3	0.9	4	4.4		
WERD	e P	Z	02:04:12.4	46.3	89.4	1.0	5	4.5		
NOTT	e P	Z	02:04:14.1	46.5	88.6	1.2	13	4.9		
GRA1	e P	Z	02:04:18.2	47.0	87.8	0.9	10	5.0		
FUR	e P	Z	02:04:18.4	47.1	86.5					
CLZ	e P	Z	02:04:21.5	47.5	89.2	1.2	10	4.8		

BSEG	e P	Z	02:04:22.1	47.6	91.1	1.6	18	5.0	
NRDL	e P	Z	02:04:23.5	47.7	89.6				
STU	e P	Z	02:04:28.6	48.4	85.5	0.9	8	4.7	
BFO	e P	Z	02:04:32.8	49.0	84.6	0.9	3	4.3	
IBBN	e P	Z	02:04:33.8	49.1	87.6				
BUG	e P	Z	02:04:36.9	49.5	86.5	0.9	9	4.7	
WLF	e P	Z	02:04:43.8	50.3	84.2	1.1	11	4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	02:10: 0.2	28.424N	56.856E	33.0N	3.9			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:17:36.0	40.5	104.4	1.0	3	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	04:55:27.9	45.070N	29.380W	33.0N	4.6	4.1		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	05:00:43.2	24.3	272.8	1.5	36	4.7		
BUG	e P	Z	05:00:49.0	24.9	269.8	1.3	28	4.8		
IBBN	e P	Z	05:00:52.7	25.2	268.3	1.3	46	5.0		
TNS	e P	Z	05:00:57.1	25.7	273.2	1.4	16	4.5		
BFO	e P	Z	05:00:57.7	25.8	277.0	1.8	48	4.8		
STU	e P	Z	05:01:01.7	26.3	276.7	1.3	17	4.5		
NRDL	e P	Z	05:01:05.3	26.7	269.8	1.1	11	4.5		
BSEG	e P	Z	05:01:07.1	26.8	267.1	1.1	28	4.9		
CLZ	e P	Z	05:01:07.0	26.9	271.3	1.1	24	4.8		
GRA1	e P	Z	05:01:13.3	27.5	276.1	1.2	19	4.8		
	e L	Z	05:10:05.4			21.4	548		4.1	
FUR	e P	Z	05:01:15.2	27.8	279.0	1.0	21	4.9		
NOTT	e P	Z	05:01:18.0	28.1	276.4	1.4	7	4.3		
WERD	e P	Z	05:01:18.4	28.1	275.4	1.4	9	4.4		
GUNZ	e P	Z	05:01:18.2	28.2	275.5	1.5	12	4.5		
CLL	e P	Z	05:01:21.7	28.5	274.3	1.1	8	4.5		
	e S	E	05:06:06.4							
	e LR	Z	05:08:28.8							
	e L	Z	05:11:00.7			22.0	392		4.0	
WET	e P	Z	05:01:22.7	28.7	278.1	1.4	7	4.3		
BRG	e P	Z	05:01:27.4	29.1	275.7	1.4	12	4.5		
GEC2	e P	Z	05:01:27.9	29.2	279.1	1.9	28	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	07:37: 9.1	47.352N	162.621W	33.0N	4.5			SZGRF

South of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:49:30.4	82.8	355.8	1.0	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	12:00:11.5	1.300N	96.960E	33.0N	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	12:12:42.1	84.6	94.2	1.3	14	5.1		
BRG	e P	Z	12:12:41.7	84.6	94.6	0.9	5	4.7		
RUE	e P	Z	12:12:42.9	84.8	94.6					
WET	e P	Z	12:12:44.6	85.1	93.6	0.9	6	4.8		
CLL	e P	Z	12:12:44.5	85.2	93.9	1.4	7	4.7		
GUNZ	e P	Z	12:12:46.9	85.6	93.3	0.9	4	4.5		
WERD	e P	Z	12:12:46.7	85.6	93.3	0.9	4	4.5		
NOTT	e P	Z	12:12:47.3	85.7	93.1	1.0	4	4.5		
GRA1	e P	Z	12:12:50.5	86.3	92.4	1.4	16	5.0		
CLZ	e P	Z	12:12:53.2	86.9	91.9	1.5	19	5.0		
BSEG	e P	Z	12:12:53.6	87.0	91.9	1.1	14	5.0		
NRDL	e P	Z	12:12:54.3	87.1	91.7	1.2	14	5.0		
STU	e P	Z	12:12:56.3	87.6	90.8					
TNS	e P	Z	12:12:59.0	88.0	90.3	1.2	10	5.0		
BFO	e P	Z	12:12:58.7	88.1	90.2					
IBBN	e P	Z	12:13:00.9	88.5	89.8	0.8	14	5.4		
BUG	e P	Z	12:13:02.4	88.8	89.4	0.8	8	5.0		
WLF	e P	Z	12:13:05.9	89.5	88.5	1.3	14	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	13:51:19.3	1.354S	98.060E	31.5	4.6			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:04:11.1	89.0	93.3	0.9	4	4.6		
	e pP	Z	14:04:20.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	16:23:51.2	33.148N	134.293E	33.0N	4.6			SZGRF

Shikoku, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:36:13.7	83.0	45.0	1.1	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	18:58:41.9	30.030N	56.550E	33.0N	4.9	4.2		SZGRF

Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:05:52.3	37.4	104.2	1.1	26	4.9		
BRG	e P	Z	19:05:56.5	37.8	106.9	1.5	18	4.6		
WET	e P	Z	19:05:57.9	38.0	103.7	1.3	19	4.7		
RUE	e P	Z	19:06:00.4	38.4	108.7	0.8	25	5.0		
CLL	i P	Z	19:06:01.3	38.5	106.5	1.1	48	5.1		
	e PP	Z	19:07:25.8							
	e S	N	19:11:56.5							
	e SS	N	19:14:45.7							
	e LR	Z	19:17:59.3							
	e L	Z	19:24:05.0			20.0	487		4.3	
NOTT	e P	Z	19:06:02.6	38.6	103.8	1.1	10	4.3		
GUNZ	e P	Z	19:06:03.6	38.6	104.7	0.9	3	3.9		
WERD	e P	Z	19:06:03.6	38.7	104.8	2.1	31	4.6		
FUR	e P	Z	19:06:04.1	38.8	101.0	0.6	12	4.7		
GRA1	e P	Z	19:06:07.4	39.2	102.8	1.1	35	4.9		
	e L	Z	19:25:10.3			20.2	353		4.2	
RGN	e P	Z	19:06:08.5	39.3	110.7	1.2	259	5.7		
CLZ	e P	Z	19:06:16.4	40.2	104.6	1.2	61	5.1		
STU	e P	Z	19:06:16.5	40.3	99.9	0.5	16	4.9		
BFO	e P	Z	19:06:20.8	40.8	98.6					
BSEG	e P	Z	19:06:20.8	40.8	106.9					
TNS	e P	Z	19:06:23.2	41.0	100.9	1.1	43	5.1		
IBBN	e P	Z	19:06:30.3	41.9	102.6	1.2	56	5.2		
BUG	e P	Z	19:06:31.1	42.0	101.2	1.2	47	5.1		
WLF	e P	Z	19:06:33.7	42.4	98.3	1.0	24	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	19:20:56.8	44.517N	149.969E	33.0N	4.5			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:32:58.8	79.2	28.6	0.8	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	19:43:22.0	28.449N	56.965E	33.0N	4.0			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:50:58.2	40.5	104.2	1.1	4	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	20:46:42.5	35.016N	25.240E	30.0G	3.6			the-m

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:50:50.7	17.9	139.8	1.1	5	3.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:48:24.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:35:13.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	22:49:20.1	0.430N	99.710E	33.0N	4.9			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:02:02.7	87.0	93.0	1.9	17	4.9		
GEC2	e P	Z	23:02:02.4	87.1	92.7	1.6	17	4.9		
WET	e P	Z	23:02:05.2	87.6	92.1	0.9	4	4.8		
CLL	e P	Z	23:02:05.1	87.6	92.3	1.2	6	4.8		
GUNZ	e P	Z	23:02:07.5	88.0	91.7	1.0	5	4.8		
WERD	e P	Z	23:02:07.2	88.0	91.7	0.9	4	4.7		
NOTT	e P	Z	23:02:07.9	88.1	91.6	1.5	10	4.9		
GRA1	e P	Z	23:02:10.7	88.7	90.9	1.7	36	5.3		
CLZ	e P	Z	23:02:13.0	89.3	90.3	1.7	19	5.0		
NRDL	e P	Z	23:02:13.8	89.4	90.1	0.9	4	4.7		
TNS	e P	Z	23:02:18.6	90.5	88.8	1.1	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/01	22:52:36.0	7.800S	156.300E	29.6				EMSC-A

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	23:11:43.0	126.4	43.5					
BRG	e PKPdf	Z	23:11:43.2	126.9	49.2					
CLL	e PKPdf	Z	23:11:43.9	127.0	47.9					
NRDL	e PKPdf	Z	23:11:45.7	127.5	44.0					
CLZ	e PKPdf	Z	23:11:45.9	127.9	44.7					
WERD	e PKPdf	Z	23:11:46.1	128.0	47.6					
GUNZ	e PKPdf	Z	23:11:46.0	128.0	47.7					
GEC2	e PKPdf	Z	23:11:45.5	128.3	50.1					
NOTT	e PKPdf	Z	23:11:46.5	128.5	47.8					
WET	e PKPdf	Z	23:11:47.0	128.5	49.0					
IBBN	e PKPdf	Z	23:11:47.5	128.6	41.4					
GRA1	e PKPdf	Z	23:11:47.6	129.0	46.8					
	e pPKPdf	Z	23:11:56.5							
BUG	e PKPdf	Z	23:11:48.6	129.5	41.3					
FUR	e PKPdf	Z	23:11:49.0	130.0	47.8					
STU	e PKPdf	Z	23:11:51.3	130.6	45.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/02	06:05: 2.9	8.160S	67.440W	614.8	5.1			SZGRF

Western Brazil

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	06:16:38.2	85.8	252.2	1.0	42	5.5		
	e pP	Z	06:18:49.2							
BFO	e P	Z	06:16:42.1	86.8	253.9	1.2	10	4.8		
BUG	e P	Z	06:16:44.5	87.0	253.0	1.3	36	5.3		
TNS	e P	Z	06:16:45.4	87.4	253.9	1.1	18	5.1		
	e pP	Z	06:18:56.3							
STU	e P	Z	06:16:45.4	87.5	254.6	0.3	20	5.7		
	e pP	Z	06:18:56.8							
FUR	e P	Z	06:16:52.1	88.7	256.2	0.6	16	5.4		
GRA1	e P	Z	06:16:53.1	89.0	256.1					
	e pP	Z	06:19:05.1							
CLZ	e P	Z	06:16:54.0	89.0	255.4	1.0	9	5.0		
	e pP	Z	06:19:05.2							
NRDL	e P	Z	06:16:53.0	89.0	255.2	1.0	8	4.9		
MOX	e P	Z	06:16:55.5	89.5	256.4	0.9	4	4.7		
	e pP	Z	06:19:07.9							
BSEG	e P	Z	06:16:54.7	89.5	255.3	1.0	17	5.2		
NOTT	e P	Z	06:16:56.2	89.6	256.8	1.1	14	5.1		

GUNZ	e P	Z	06:16:56.4	89.8	256.9	1.2	6	4.7
WERD	e P	Z	06:16:57.1	89.8	256.9	1.1	5	4.7
WET	e P	Z	06:16:57.5	89.9	257.4	0.9	10	5.0
GEC2	e P	Z	06:16:59.6	90.4	258.0	0.9	11	5.1
CLL	e P	Z	06:16:59.7	90.5	257.5	1.6	14	5.0
BRG	e P	Z	06:17:02.0	90.9	258.2	1.0	8	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/02	15:20:11.6	52.344N	174.980W	33.0N	4.9			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:32:06.1	77.8	3.9	1.0	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/02	15:35:53.2	42.020S	168.140E	33.0N		5.2		SZGRF

Off west coast of South Island, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP	Z	16:00:05.7	159.3	63.2					
RUE	e PP	Z	16:00:09.6	159.9	69.0					
BRG	e PP	Z	16:00:13.1	160.3	73.4					
CLL	e PKPdf	Z	15:55:36.6	160.7	71.0					
	e PKPab	Z	15:56:28.9							
	e PP	Z	16:00:19.8							
	e (SS)	R	16:21:12.0							
	e SSS	R	16:27:13.1							
	e LR	Z	16:53:29.7							
	e L	Z	17:14:26.2			22.0	286		5.1	
GEC2	e PP	Z	16:00:17.6	160.9	78.7					
BSEG	e PP	Z	16:00:17.2	161.1	60.0					
WET	e PP	Z	16:00:17.2	161.4	76.9					
NOTT	e PP	Z	16:00:19.6	161.7	74.0					
MOX	e PP	Z	16:00:21.2	161.7	70.9					
NRDL	e PP	Z	16:00:20.2	161.9	63.4					
CLZ	e PP	Z	16:00:20.5	162.0	65.7					
HLG	e PP	Z	16:00:22.9	162.2	55.1					
GRA1	e PKPdf	Z	15:55:38.3	162.3	73.2					
	e PP	Z	16:00:22.0							
	e L	Z	17:20:06.4			20.3	314		5.2	
GRFO	e PP	Z	16:00:22.0	162.3	73.2					
FUR	e PP	Z	16:00:23.7	162.6	77.9					
IBBN	e PP	Z	16:00:27.4	163.2	59.9					
TNS	e PP	Z	16:00:32.1	163.8	67.4					
STU	e PP	Z	16:00:29.4	163.8	73.3					

BUG	e PP	Z	16:00:31.4	163.9	61.6	
BFO	e PP	Z	16:00:35.1	164.5	73.5	
WLF	e PP	Z	16:00:39.9	165.4	65.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/02	16:34: 0.4	1.231S	97.820E	33.0N	4.7			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:46:51.0	88.7	93.4	0.7	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/02	21:30:50.2	35.759N	25.553E	11.0G	4.3			the-m

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	21:34:33.9	15.7	142.0					
GRA1	e P	Z	21:34:57.2	17.4	137.8	1.8	48	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/02	21:33: 3.3	21.880S	173.590W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:52:44.6	147.8	6.8					
RUE	e PKPbc	Z	21:52:47.4	148.9	13.3					
NRDL	e PKPbc	Z	21:52:48.4	149.3	6.7					
IBBN	e PKPbc	Z	21:52:49.3	149.6	2.5					
CLZ	e PKPbc	Z	21:52:50.4	149.9	7.3					
CLL	e PKPbc	Z	21:52:50.6	150.1	12.4	1.4	38			
	e pPKPbc	Z	21:53:02.5							
	e L	Z	23:07:07.1			19.4	147		4.8	
BRG	e PKPbc	Z	21:52:51.6	150.4	14.3					
BUG	e PKPbc	Z	21:52:51.2	150.4	1.6					
MOX	e PKPbc	Z	21:52:52.8	150.9	10.0					
WERD	e PKPbc	Z	21:52:53.2	151.1	11.4					
GUNZ	e PKPbc	Z	21:52:53.5	151.1	11.4					
TNS	e PKPbc	Z	21:52:54.6	151.6	4.0					
NOTT	e PKPbc	Z	21:52:54.7	151.7	11.2					
GRA1	e PKPbc	Z	21:52:55.5	151.9	9.5					
WLF	e PKPbc	Z	21:52:56.3	152.2	359.5					
WET	e PKPbc	Z	21:52:56.0	152.3	13.0					
GEC2	e PKPbc	Z	21:52:56.2	152.4	14.7					

STU	e PKPbc	Z	21:52:57.7	153.0	5.7
FUR	e PKPbc	Z	21:52:58.4	153.4	10.1
BFO	e PKPbc	Z	21:52:58.6	153.5	4.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	00:47:35.1	34.375N	24.859E	26.0G	3.7			the-m

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:51:28.1	16.7	146.2	0.6	3	3.6		
WET	e P	Z	00:51:34.0	17.2	144.6	0.9	6	3.7		
GRA1	e P	Z	00:51:45.7	18.3	141.7	1.2	12	3.9		
GUNZ	e P	Z	00:51:47.5	18.4	145.5	1.0	5	3.6		
MOX	e P	Z	00:51:52.3	18.9	144.3	1.0	3	3.5		
CLL	e P	Z	00:51:52.9	19.0	148.6	0.6	3	3.6		
BUG	e P	Z	00:52:17.1	21.3	136.5	1.0	9	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	00:52:17.3	33.091N	26.285E	33.0G	4.2			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:56:28.1	18.3	144.5	1.2	11	3.9		
FUR	e P	Z	00:56:33.2	18.8	137.7	1.5	56	4.6		
WET	e P	Z	00:56:34.1	18.9	143.2	1.2	22	4.3		
NOTT	e P	Z	00:56:42.8	19.7	142.6	2.0	23	4.1		
GRA1	e P	Z	00:56:46.4	20.0	140.5	1.5	41	4.4		
GUNZ	e P	Z	00:56:47.7	20.1	144.0	1.1	7	3.8		
WERD	e P	Z	00:56:48.7	20.2	144.1	1.0	7	3.9		
BFO	e P	Z	00:56:49.4	20.3	132.0	1.2	11	4.0		
MOX	e P	Z	00:56:52.9	20.6	142.9	1.1	7	3.9		
CLL	e P	Z	00:56:53.4	20.6	146.9	0.8	5	3.9		
TNS	e P	Z	00:57:04.6	21.6	135.8	1.1	14	4.3		
CLZ	e P	Z	00:57:07.7	22.0	142.2	1.1	12	4.2		
WLF	e P	Z	00:57:11.4	22.3	130.5	1.8	64	4.8		
NRDL	e P	Z	00:57:14.7	22.6	142.7	1.1	13	4.4		
BUG	e P	Z	00:57:18.4	23.0	135.6	1.1	23	4.6		
BSEG	e P	Z	00:57:24.7	23.7	145.0	1.2	28	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	04:54:59.0	15.100S	173.600W	10.0N				NEIC-M

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	05:14:38.1	145.2	8.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	07:21:10.7	32.843N	48.264E	33.0N	4.6	3.8		SZGRF

Western Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:27:34.9	32.1	107.6	1.0	7	4.6		
	e L	Z	07:45:01.6			20.2	192		3.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	09:54:55.3	46.038N	26.724W	33.0N	4.5			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:00:20.5	25.4	276.4	1.5	21	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	11:04:32.0	41.560N	139.350E	33.0N	5.2			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:16:13.3	75.0	37.0	1.1	31	5.2		
BRG	e P	Z	11:16:19.0	76.1	38.9	0.9	11	5.0		
CLL	e P	Z	11:16:18.5	76.1	38.4	1.1	30	5.3		
NRDL	e P	Z	11:16:20.0	76.2	36.6	0.9	8	4.9		
CLZ	e P	Z	11:16:22.4	76.7	36.7	1.1	29	5.3		
WERD	e P	Z	11:16:24.1	77.0	37.8	0.2	17	5.9		
GUNZ	e P	Z	11:16:25.0	77.1	37.8	1.8	34	5.2		
MOX	e P	Z	11:16:24.7	77.1	37.4	1.2	16	5.0		
IBBN	e P	Z	11:16:25.7	77.2	35.0	1.4	39	5.3		
NOTT	e P	Z	11:16:27.7	77.6	37.6	1.0	12	5.0		
GEC2	e P	Z	11:16:27.9	77.7	38.5	0.6	7	5.0		
WET	e P	Z	11:16:29.4	77.8	38.0	1.2	13	4.9		
GRA1	e P	Z	11:16:30.8	78.1	37.0	1.0	35	5.5		
BUG	e P	Z	11:16:29.9	78.1	34.6	0.9	13	5.1		
TNS	e P	Z	11:16:33.6	78.7	35.2	1.3	19	5.0		
STU	e P	Z	11:16:39.0	79.6	35.6	0.8	27	5.2		
WLF	e P	Z	11:16:40.7	80.0	33.6	0.6	10	4.9		
BFO	e P	Z	11:16:41.7	80.3	34.9	1.2	25	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	18:00:43.0	13.475S	12.750W	33.0N	4.7	4.1		SZGRF

Southern Mid-Atlantic Ridge

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRC3	e P	Z	18:11:13.6	66.0	206.0					
	GRA1	e P	Z	18:11:30.4	66.6	205.5	0.9	4	4.7		
		e L	Z	18:37:24.5			21.9	135		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	19:11:51.4	13.940S	71.815W	35.3	5.5	5.4		SZGRF

Central Peru

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	19:25:16.2	96.2	255.7	1.1	16	5.5		
		e pP	Z	19:25:26.6			1.1	16			
		e PP	Z	19:29:12.0							
		e S	N	19:36:34.6							
		e L	Z	20:14:17.1			19.2	1330		5.4	
	CLL	e Pdiff	Z	19:25:23.0	97.5	257.3					
		e pPdiff	Z	19:25:31.4							
		e PP	Z	19:29:34.5							
		e SKSac	R	19:36:00.2							
		e SKKSac	R	19:36:23.3							
		e Sdiff	T	19:36:53.8							
		e PS	Z	19:38:37.6							
		e PPS	Z	19:39:23.8							
		e SS	T	19:43:49.6							
		e SSS	R	19:47:36.5							
		e LQ	T	19:53:39.0							
		e LR	Z	19:59:11.3							
		e L	Z	20:10:22.0			22.0	1404		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	20:03:27.4	1.086N	96.580E	25.1	4.5			SZGRF

Off west coast of northern Sumatera, Indonesia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	20:16:06.8	86.2	92.8	1.0	3	4.5		
		e pP	Z	20:16:14.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/03	23:17:53.0	29.692N	141.916E	33.0N	4.5			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:30:46.4	89.4	41.2	1.1	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	00:42: 5.8	0.823N	96.725E	40.1	5.2			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:54:37.1	84.8	94.7	1.4	22	5.2		
BRG	e P	Z	00:54:37.0	84.8	95.1	0.9	7	4.9		
RUE	e P	Z	00:54:38.1	85.1	95.1	1.4	32	5.4		
CLL	e P	Z	00:54:39.6	85.4	94.4	0.9	7	4.9		
GUNZ	e P	Z	00:54:41.9	85.8	93.8	1.0	8	4.8		
WERD	e P	Z	00:54:42.2	85.8	93.8	0.9	5	4.7		
NOTT	e P	Z	00:54:42.7	85.9	93.6	1.3	5	4.5		
GRA1	e P	Z	00:54:45.5	86.5	92.9	1.6	45	5.3		
	e pP	Z	00:54:57.2							
GRFO	e P	Z	00:54:45.5	86.5	92.9	1.6	38	5.3		
CLZ	e P	Z	00:54:48.4	87.1	92.4	1.6	20	5.0		
BSEG	e P	Z	00:54:49.1	87.2	92.4	3.7	336	5.9		
NRDL	e P	Z	00:54:49.6	87.3	92.2	1.4	26	5.2		
TNS	e P	Z	00:54:54.2	88.3	90.8	1.4	12	5.0		
BFO	e P	Z	00:54:54.0	88.3	90.7	0.1	44	7.0		
IBBN	e P	Z	00:54:56.2	88.7	90.3	1.0	27	5.4		
BUG	e P	Z	00:54:57.5	89.0	89.9	1.0	16	5.2		
WLF	e P	Z	00:55:01.3	89.7	89.0	1.1	15	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	00:44:54.4	3.260N	95.580E	41.7	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:57:10.9	82.2	94.4	1.3	16	5.0		
GEC2	e P	Z	00:57:11.3	82.2	94.0					
RUE	e P	Z	00:57:11.8	82.4	94.5	0.9	27	5.4		
CLL	e P	Z	00:57:13.6	82.8	93.8	1.3	11	4.9		
RGN	e P	Z	00:57:14.3	82.9	94.4	1.1	26	5.4		
GUNZ	e P	Z	00:57:16.1	83.2	93.1	1.1	8	4.8		
WERD	e P	Z	00:57:16.0	83.2	93.1	1.3	12	4.9		
NOTT	e P	Z	00:57:16.9	83.3	92.9	1.1	6	4.8		
FUR	e P	Z	00:57:18.7	83.8	92.1	0.6	6	5.0		
GRA1	e P	Z	00:57:19.9	83.9	92.2					

	e	pP	Z	00:57:32.0					
CLZ	e	P	Z	00:57:22.5	84.5	91.8	1.2	18	5.2
BSEG	e	P	Z	00:57:23.0	84.6	91.9	1.2	20	5.2
NRDL	e	P	Z	00:57:23.7	84.7	91.6	1.2	19	5.2
STU	e	P	Z	00:57:25.8	85.2	90.6	0.9	12	5.1
TNS	e	P	Z	00:57:28.6	85.7	90.1	0.9	8	4.9
BFO	e	P	Z	00:57:28.4	85.7	89.9	0.9	7	4.8
IBBN	e	P	Z	00:57:30.7	86.1	89.7	0.8	16	5.2
BUG	e	P	Z	00:57:32.1	86.4	89.3	0.9	11	5.0
WLF	e	P	Z	00:57:36.2	87.1	88.3	1.1	5	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	02:32:44.4	9.500N	91.500E	19.2	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	02:44:22.0	74.8	93.6	1.4	58	5.4		
GEC2	e P	Z	02:44:22.3	74.8	92.9	1.4	55	5.4		
RUE	e P	Z	02:44:22.8	75.0	93.9	1.3	123	5.8		
CLL	i P	+ Z	02:44:25.1	75.4	93.0	1.1	21	5.2		
	e pP	Z	02:44:31.6							
	e sP	Z	02:44:36.0							
	e S	E	02:54:06.3							
	e LR	Z	03:13:01.9							
	e L	Z	03:24:18.9			18.0	936		5.1	
RGN	e P	Z	02:44:25.5	75.4	94.1	1.3	87	5.6		
GUNZ	e P	Z	02:44:27.8	75.8	92.2	1.3	42	5.4		
WERD	e P	Z	02:44:27.7	75.8	92.2	1.4	47	5.4		
NOTT	e P	Z	02:44:28.7	75.9	91.9	1.5	51	5.4		
FUR	e P	Z	02:44:30.9	76.4	90.9	1.5	72	5.6		
GRA1	e P	Z	02:44:32.1	76.5	91.2	1.5	29	5.2		
	e pP	Z	02:44:37.6							
	e PP	Z	02:47:30.2							
	e S	T	02:54:19.6							
	e SS	R	02:59:26.0							
	e L	Z	03:28:58.0			19.5	549		4.9	
CLZ	e P	Z	02:44:34.8	77.1	91.0	1.4	65	5.6		
BSEG	e P	Z	02:44:35.3	77.1	91.5	1.3	91	5.7		
NRDL	e P	Z	02:44:36.1	77.2	91.0	1.5	82	5.6		
STU	e P	Z	02:44:38.8	77.8	89.4	1.2	23	5.2		
TNS	e P	Z	02:44:41.7	78.3	89.2	1.3	44	5.4		
BFO	e P	Z	02:44:41.8	78.4	88.7	1.3	36	5.4		
IBBN	e P	Z	02:44:43.8	78.7	89.1	1.3	80	5.6		
BUG	e P	Z	02:44:45.5	79.0	88.5	1.4	66	5.5		
WLF	e P	Z	02:44:50.2	79.8	87.3	1.5	95	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	04:38:30.8	13.380N	143.270E	33.0N		5.2		SZGRF

South of Mariana Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SP	Z	05:05:11.9	100.0	49.2					
RUE	e SP	Z	05:05:26.9	101.1	49.9					
BSEG	e PP	Z	04:56:33.3	101.7	46.7					
	e SP	Z	05:05:33.6							
BRG	e SP	Z	05:05:40.7	102.1	50.3					
CLL	e Pdiff	Z	04:52:09.9	102.3	49.4	1.1	13			
	e PP	Z	04:56:31.4							
	e PPS	N	05:06:27.9							
	e (SSS)	N	05:11:32.1							
	e LR	Z	05:30:55.0							
	e L	Z	05:41:59.8			19.4	880		5.3	
HLG	e PP	Z	04:56:38.4	102.6	44.4					
	e SP	Z	05:05:44.9							
NRDL	e SP	Z	05:05:48.4	102.8	46.7					
CLZ	e SP	Z	05:05:52.9	103.1	47.0					
GEC2	e SP	Z	05:05:59.5	103.5	50.5					
NOTT	e SP	Z	05:05:55.4	103.7	48.9					
IBBN	e SP	Z	05:05:57.3	104.0	44.6					
GRA1	e Pdiff	Z	04:52:19.7	104.2	48.2					
	e PP	Z	04:56:50.2							
	e SP	Z	05:06:01.0							
	e L	Z	05:44:07.6			21.0	696		5.2	
BUG	e SP	Z	05:06:04.3	104.8	44.3					
TNS	e SP	Z	05:06:18.2	105.1	45.6					
FUR	e PP	Z	04:56:59.2	105.2	48.5					
	e SP	Z	05:06:10.3							
STU	e SP	Z	05:06:18.4	105.8	46.6					
BFO	e SP	Z	05:06:20.8	106.5	45.9					
WLF	e SP	Z	05:06:25.6	106.6	43.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	05:58:49.1	4.580N	94.980E	20.4	5.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:11:02.1	80.8	94.1	0.7	15	5.1		
GEC2	e P	Z	06:11:02.5	80.8	93.6	0.8	36	5.5		
RUE	e P	Z	06:11:03.0	81.0	94.2	0.6	56	5.8		
CLL	e P	Z	06:11:04.9	81.4	93.4	0.9	12	4.9		
GUNZ	e P	Z	06:11:07.4	81.8	92.7	0.7	11	5.1		
WERD	e P	Z	06:11:07.3	81.8	92.7	0.7	10	5.1		

NOTT	e P	Z	06:11:08.3	81.9	92.5	0.9	10	5.0
FUR	e P	Z	06:11:10.2	82.4	91.6	0.5	20	5.5
GRA1	e P	Z	06:11:11.3	82.5	91.8	0.9	29	5.4
	e pP	Z	06:11:17.2					
CLZ	e P	Z	06:11:14.0	83.1	91.4	0.9	26	5.5
BSEG	e P	Z	06:11:14.5	83.2	91.6	0.9	30	5.5
NRDL	e P	Z	06:11:15.3	83.2	91.3	0.8	10	5.1
TNS	e P	Z	06:11:20.3	84.3	89.7	0.8	16	5.3
BFO	e P	Z	06:11:20.1	84.4	89.4	0.8	15	5.3
IBBN	e P	Z	06:11:22.3	84.7	89.4	0.7	27	5.6
BUG	e P	Z	06:11:23.8	85.0	88.9	0.9	31	5.5
WLF	e P	Z	06:11:28.1	85.8	87.9	0.6	9	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	08:57: 0.7	20.390S	173.530W	33.0N		5.8		SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z	09:16:34.8	145.4	11.4					
HLG	e PKPbc	Z	09:16:37.3	146.2	2.4					
BSEG	e PKPbc	Z	09:16:37.2	146.3	6.5					
RUE	e PKPbc	Z	09:16:40.6	147.4	12.8					
NRDL	e PKPbc	Z	09:16:41.8	147.8	6.4					
IBBN	e PKPbc	Z	09:16:42.7	148.1	2.3					
CLZ	e PKPdf	Z	09:16:41.3	148.4	7.0					
	e PKPbc	Z	09:16:43.8							
CLL	e PKPdf	Z	09:16:41.6	148.7	11.8					
	i PKPbc	+ Z	09:16:44.1			1.4	255			
	e		09:16:54.2							
	e PP	Z	09:20:08.3							
	e PPP	Z	09:23:25.1							
	e SKSP	N	09:30:25.7							
	e SS	E	09:39:06.3							
	e L	Z	10:30:36.0			18.0	2190		6.0	
BUG	e PKPbc	Z	09:16:44.8	148.9	1.5					
BRG	e PKPdf	Z	09:16:42.1	149.0	13.7					
	e PKPbc	Z	09:16:45.2							
WERD	e PKPdf	Z	09:16:42.9	149.6	10.9					
	e PKPbc	Z	09:16:47.0							
GUNZ	e PKPdf	Z	09:16:43.3	149.7	10.9					
	e PKPbc	Z	09:16:47.2							
TNS	e PKPdf	Z	09:16:44.4	150.1	3.7					
	e PKPbc	Z	09:16:48.4							
NOTT	e PKPdf	Z	09:16:44.3	150.2	10.7					
	e PKPbc	Z	09:16:48.6							
GRA1	e PKPdf	Z	09:16:45.3	150.5	9.1					
	e PKPbc	Z	09:16:49.2							

	e PP	Z	09:20:30.8							
	e SS	N	09:39:47.9							
	e L	Z	10:24:32.4				21.0	1500		5.8
WLF	e PKPbc	Z	09:16:50.0	150.7	359.4					
GEC2	e PKPdf	Z	09:16:45.1	151.0	14.1					
	e PKPbc	Z	09:16:50.2							
STU	e PKPdf	Z	09:16:46.6	151.5	5.4					
	e PKPbc	Z	09:16:51.5							
FUR	e PKPbc	Z	09:16:52.4	152.0	9.6					
BFO	e PKPdf	Z	09:16:46.5	152.0	3.7					
	e PKPbc	Z	09:16:52.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/04	14:55:28.1	46.527N	14.470E	10.0G			2.3	SZGRF

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pg	Z	14:55:28.9	0.1	288.2					2.3
	e Sg	E	14:55:31.2							
KBA	e Pg	N	14:55:45.1	0.9	125.2					
	e Sg	N	14:55:57.8							2.2
ARSA	e Pg	Z	14:55:47.3	1.0	225.2					2.1
	e Sg	N	14:56:00.7							
MOA	e Pg	Z	14:55:52.9	1.3	173.9					2.1
	e Sg	N	14:56:15.3							
WTTA	e Pg	Z	14:56:05.4	2.1	109.8					2.6
	e Sg	N	14:56:34.9							
GEC2	e Pn	Z	14:56:07.0	2.4	167.1					2.6
	e Sg	N	14:56:42.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	01:14:50.1	5.230N	94.220E	46.8	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:26:53.6	79.8	94.3	2.3	54	5.1		
GEC2	e P	Z	01:26:54.0	79.8	93.7	2.4	83	5.2		
RUE	e P	Z	01:26:54.5	80.0	94.4	0.7	15	5.0		
CLL	e P	Z	01:26:56.5	80.4	93.6	1.8	12	4.5		
GUNZ	e P	Z	01:26:59.0	80.8	92.9	0.9	6	4.6		
WERD	e P	Z	01:26:58.9	80.8	92.9	2.2	39	5.0		
NOTT	e P	Z	01:26:59.9	80.9	92.7	6.2	615	5.8		
FUR	e P	Z	01:27:01.8	81.4	91.8	1.1	15	4.9		
GRA1	e P	Z	01:27:03.0	81.5	91.9	1.5	22	5.1		
	e pP	Z	01:27:16.6							

CLZ	e P	Z	01:27:05.6	82.1	91.6	1.1	14	5.0	
BSEG	e P	Z	01:27:06.2	82.2	91.8	0.9	14	5.1	
NRDL	e P	Z	01:27:06.8	82.3	91.5	1.9	30	5.1	
UBBA	e P	Z	01:27:07.8	82.3	91.2				
STU	e P	Z	01:27:09.1	82.8	90.3	1.0	10	5.0	
TNS	e P	Z	01:27:12.0	83.3	89.9	1.3	15	5.1	
BFO	e P	Z	01:27:11.9	83.4	89.6				
IBBN	e P	Z	01:27:14.1	83.7	89.6	1.4	33	5.4	
BUG	e P	Z	01:27:15.6	84.0	89.1	1.1	14	5.1	
WLF	e P	Z	01:27:19.7	84.8	88.1	2.3	53	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	10:03:36.5	23.320S	177.800W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:23:20.6	148.8	14.5					
NRDL	e PKPbc	Z	10:23:24.0	150.2	14.7					
IBBN	e PKPbc	Z	10:23:25.5	150.7	10.5					
CLL	e PKPdf	Z	10:23:21.4	150.8	20.7					
	i PKPbc	+ Z	10:23:25.1			0.7	33			
	i PKPab	Z	10:23:32.3			0.8	16			
	e pPKPbc	Z	10:25:37.2							
CLZ	e PKPbc	Z	10:23:25.7	150.8	15.5					
	e PKPab	Z	10:23:32.6							
BRG	e PKPbc	Z	10:23:25.7	151.0	22.7					
MOX	e PKPbc	Z	10:23:27.4	151.7	18.5					
	e PKPab	Z	10:23:36.8							
WERD	e PKPbc	Z	10:23:27.5	151.8	19.9					
	e PKPab	Z	10:23:36.6							
GUNZ	e PKPbc	Z	10:23:27.9	151.8	20.0					
	e PKPab	Z	10:23:36.9							
UBBA	e PKPbc	Z	10:23:28.7	151.8	15.3					
NOTT	e PKPbc	Z	10:23:29.0	152.4	20.0					
	e PKPab	Z	10:23:39.3							
TNS	e PKPbc	Z	10:23:30.1	152.7	12.6					
	e PKPab	Z	10:23:40.7							
GRA1	e PKPbc	Z	10:23:31.8	152.7	18.3					
	e PKPab	Z	10:23:40.5							
GEC2	e PKPbc	Z	10:23:29.9	152.9	23.7					
FUR	e PKPab	Z	10:23:47.4	154.1	19.4					
BFO	e PKPab	Z	10:23:48.2	154.5	13.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	13:12:53.1	18.942S	67.118E	33.0N	4.8			SZGRF

Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:25:23.2	84.5	128.1	1.1	7	4.8		
CLL	e P	Z	13:25:25.0	84.5	129.6	0.4	2	4.8		
	e		13:25:32.1							
	e S	Z	13:35:55.2							
	e LR	Z	13:49:08.5							
	e L	Z	14:01:36.3			22.0	73		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	13:40: 4.0	20.670S	176.020E	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:59:36.8	145.0	23.8					
RUE	e PKPbc	Z	13:59:37.8	145.4	30.1					
NRDL	e PKPbc	Z	13:59:40.0	146.4	24.3					
CLL	e PKPbc	Z	13:59:41.5	146.6	29.8					
BRG	e PKPbc	Z	13:59:42.1	146.7	31.6					
CLZ	e PKPbc	Z	13:59:42.8	146.9	25.1					
IBBN	e PKPbc	Z	13:59:42.5	147.1	20.5					
WERD	e PKPbc	Z	13:59:44.5	147.6	29.3					
MOX	e PKPbc	Z	13:59:44.5	147.6	28.0					
GUNZ	e PKPbc	Z	13:59:45.1	147.6	29.4					
UBBA	e PKPbc	Z	13:59:46.6	147.9	25.2					
BUG	e PKPbc	Z	13:59:44.9	148.0	20.1					
	e PKPab	Z	13:59:48.6							
NOTT	e PKPbc	Z	13:59:46.2	148.2	29.5					
GEC2	e PKPbc	Z	13:59:46.7	148.5	32.9					
GRA1	e PKPbc	Z	13:59:47.5	148.6	28.1					
TNS	e PKPbc	Z	13:59:48.4	148.9	22.9					
WLF	e PKPbc	Z	13:59:51.6	149.9	19.2					
	e PKPab	Z	13:59:56.9							
STU	e PKPbc	Z	13:59:51.3	150.0	25.2					
	e PKPab	Z	13:59:57.2							
BFO	e PKPbc	Z	13:59:52.6	150.6	24.0					
	e PKPab	Z	13:59:58.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	19:12:33.8	6.110N	81.690W	48.4	6.1	6.0		SZGRF

South of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:24:59.3	84.0	272.3	1.9	509	6.4		

BUG	e	P	Z	19:25:02.0	84.6	273.0	1.9	360	6.3
HLG	e	P	Z	19:25:03.3	84.8	273.2	1.2	429	6.5
IBBN	e	P	Z	19:25:03.3	84.8	273.3	1.7	468	6.4
TNS	e	P	Z	19:25:06.3	85.4	274.0	1.9	369	6.3
BFO	e	P	Z	19:25:05.9	85.5	274.1	1.3	43	5.5
STU	e	P	Z	19:25:08.9	86.0	274.7	1.1	118	5.9
BSEG	e	P	Z	19:25:10.3	86.2	275.2	1.9	418	6.2
NRDL	e	P	Z	19:25:10.7	86.2	275.1	2.0	382	6.2
CLZ	e	P	Z	19:25:11.7	86.5	275.4	1.1	119	5.9
GRA1	e	P	Z	19:25:15.3	87.2	276.2	1.2	84	5.7
	e			19:25:29.4					
	e	S	T	19:36:03.2					
	e	L	Z	19:59:00.8			21.0	6374	6.0
MOX	e	P	Z	19:25:15.8	87.4	276.4	1.9	188	5.9
FUR	e	P	Z	19:25:16.4	87.4	276.3	2.0	413	6.2
NOTT	e	P	Z	19:25:18.3	87.8	276.9	2.4	331	6.0
WERD	e	P	Z	19:25:18.1	87.8	277.0	2.0	234	6.0
GUNZ	e	P	Z	19:25:18.4	87.9	277.0	2.2	286	6.0
RGN	e	P	Z	19:25:18.5	87.9	277.6	1.2	184	6.3
CLL	e	P	Z	19:25:19.1	88.2	277.5	1.8	196	6.0
	e			19:25:27.6			1.5	120	
	e	(PP)	Z	19:29:14.6					
	e	S	E	19:36:07.7					
	e	PS	E	19:37:27.5					
	e	SS	E	19:42:31.2					
	e	SSSS	N	19:48:51.3					
	e	LR	Z	19:54:50.0					
	e	L	Z	19:58:22.1			22.0	7346	6.1
RUE	e	P	Z	19:25:20.8	88.5	278.1	2.1	224	6.1
BRG	e	P	Z	19:25:22.7	88.8	278.2	2.3	224	6.1
GEC2	e	P	Z	19:25:23.2	88.9	278.1	1.0	43	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	22:04:30.4	43.451N	82.979E	33.0N	4.4			SZGRF

Northern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:13:05.1	47.8	68.5	1.0	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/05	23:42: 1.8	6.210N	81.890W	33.0G		5.2		SZGRF

South of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	23:54:30.2	84.0	272.5	1.0	110			

BUG	e	P		Z	23:54:32.9	84.6	273.2	1.0	100	
HLG	e	P		Z	23:54:34.1	84.8	273.5			
IBBN	e	P		Z	23:54:34.2	84.9	273.5	1.0	117	
TNS	e	P		Z	23:54:37.1	85.4	274.2	1.9	226	
BFO	e	P		Z	23:54:36.8	85.5	274.3	1.0	44	
STU	e	P		Z	23:54:39.8	86.0	274.9	1.0	96	
BSEG	e	P		Z	23:54:41.1	86.3	275.4	1.0	84	
CLZ	e	P		Z	23:54:42.6	86.5	275.6	1.0	104	
GRA1	e	P		Z	23:54:46.2	87.3	276.4	1.2	76	
	e				23:54:51.5					
	e	PP		Z	23:58:05.4					
MOX	e	P		Z	23:54:46.6	87.4	276.6	1.2	46	
FUR	e	P		Z	23:54:47.1	87.5	276.5	1.5	105	
NOTT	e	P		Z	23:54:49.0	87.8	277.1	1.4	42	
WERD	e	P		Z	23:54:49.0	87.9	277.2	1.2	46	
GUNZ	e	P		Z	23:54:49.3	87.9	277.2	1.3	58	
RGN	e	P		Z	23:54:49.2	88.0	277.8	1.6	325	
CLL	i	P	-	Z	23:54:50.5	88.2	277.7	1.2	56	
	e				23:54:55.4					
	e	PP		Z	23:58:25.3					
	i	S		N	00:05:40.6					
	i	SS		N	00:11:36.3					
	e	SSS		E	00:15:01.3					
	e	SSSS		N	00:18:19.8					
	e	L		Z	00:31:09.7			19.2	724	5.1
RUE	e	P		Z	23:54:51.6	88.5	278.3	1.7	93	
BRG	e	P		Z	23:54:53.5	88.8	278.4	1.1	36	
GRA1	e	S		N	00:05:33.3	87.3	276.4			
	e	SS		N	00:11:21.7					
	e	L		Z	00:30:18.2			21.0	1033	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/06								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:27:42.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/06	06:17:37.6	22.450S	178.140W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	06:37:19.2	147.9	14.8					
NRDL	e PKPbc	Z	06:37:23.1	149.3	15.0					
CLL	e PKPbc	Z	06:37:24.3	149.9	20.8					

	e PKPab	Z	06:37:29.6			
CLZ	e PKPbc	Z	06:37:25.0	149.9	15.8	
BRG	e PKPbc	Z	06:37:25.0	150.1	22.8	
	e PKPab	Z	06:37:30.5			
MOX	e PKPbc	Z	06:37:26.9	150.8	18.7	
WERD	e PKPbc	Z	06:37:26.9	150.8	20.1	
	e PKPab	Z	06:37:34.1			
GUNZ	e PKPbc	Z	06:37:27.2	150.9	20.2	
	e PKPab	Z	06:37:34.5			
NOTT	e PKPbc	Z	06:37:28.3	151.5	20.2	
TNS	e PKPbc	Z	06:37:29.1	151.8	12.9	
	e PKPab	Z	06:37:38.0			
GRA1	e PKPbc	Z	06:37:29.6	151.8	18.5	
	e PKPab	Z	06:37:38.6			
GEC2	e PKPbc	Z	06:37:29.5	152.0	23.8	
	e PKPab	Z	06:37:39.0			
WLF	e PKPbc	Z	06:37:31.2	152.6	8.6	
STU	e PKPbc	Z	06:37:31.9	153.0	15.1	
BFO	e PKPbc	Z	06:37:33.1	153.6	13.6	
	e PKPab	Z	06:37:45.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/06	15:10: 4.5				4.5			SZGRF

Near Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:21:50.3			0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/06	20:07:47.6	21.350S	176.600W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:27:27.1	147.0	11.9					
RUE	e PKPbc	Z	20:27:29.3	147.9	18.4					
NRDL	e PKPbc	Z	20:27:30.5	148.4	12.0					
CLZ	e PKPbc	Z	20:27:32.6	149.0	12.7					
CLL	e PKPbc	Z	20:27:32.5	149.1	17.6					
	e PKPab	Z	20:27:36.6							
BRG	e PKPbc	Z	20:27:33.0	149.3	19.5					
MOX	e PKPbc	Z	20:27:34.8	150.0	15.4					
	e PKPab	Z	20:27:40.3							
WERD	e PKPbc	Z	20:27:35.0	150.1	16.8					
GUNZ	e PKPbc	Z	20:27:35.4	150.1	16.9					
NOTT	e PKPbc	Z	20:27:36.7	150.7	16.8					

TNS	e PKPbc	Z	20:27:37.1	150.9	9.7		
	e PKPab	Z	20:27:44.2				
GRA1	e PKPbc	Z	20:27:37.5	151.0	15.2		
	e PKPab	Z	20:27:45.0				
GEC2	e PKPbc	Z	20:27:37.5	151.3	20.3		
WLF	e PKPbc	Z	20:27:39.5	151.6	5.4		
FUR	e PKPbc	Z	20:27:40.6	152.5	16.0		
	e PKPab	Z	20:27:51.3				
BFO	e PKPab	Z	20:27:52.0	152.7	10.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/07	09:02:16.9	4.373N	33.177W	33.0N	5.1			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:12:11.9	58.7	234.7	1.6	28	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/08								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	00:20:56.4							
	e Sn	E	00:22:22.8							
GEC2	e Pn	Z	00:20:27.1							
	e Sn	N	00:21:31.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/08	16:42: 4.0	27.107N	90.353E	33.0N	4.7			SZGRF

Bhutan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:52:13.8	61.0	81.8					
GEC2	e P	Z	16:52:17.1	61.4	80.5					
NOTT	e P	Z	16:52:23.1	62.3	79.9					
BSEG	e P	Z	16:52:25.4	62.7	80.7					
GRA1	e P	Z	16:52:27.1	62.9	79.2	1.1	7	4.7		
	e		16:52:51.2							
CLZ	e P	Z	16:52:27.2	63.0	79.7					
NRDL	e P	Z	16:52:27.7	63.0	79.8					
STU	e P	Z	16:52:36.9	64.4	77.3					
TNS	e P	Z	16:52:37.5	64.5	77.5					
WLF	e P	Z	16:52:48.3	66.1	75.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/08	17:07:35.5	20.326N	109.143W	10.0G	5.6	5.5		NEIC-M

Revilla Gigedo Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e sP	Z	17:21:05.5	92.6	307.3					
	e PP	Z	17:24:27.0							
	e SKSac	E	17:31:19.2							
	e S	N	17:31:55.6							
	e PS	E	17:33:04.7							
	e SS	E	17:38:01.0							
	e LR	Z	17:51:47.4							
	e L	Z	18:03:52.3			20.0	3501		5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/08	19:51:44.3	31.550S	12.920W	33.0N	5.2			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	20:03:59.7	82.1	198.2	1.3	21	5.1		
FUR	e P	Z	20:04:02.6	82.6	200.6	1.4	70	5.6		
STU	e P	Z	20:04:03.6	82.7	198.9					
WLF	e P	Z	20:04:04.4	83.0	196.3					
GEC2	e P	Z	20:04:09.0	83.8	202.6	1.2	7	4.7		
TNS	e P	Z	20:04:09.9	83.9	198.2	1.6	32	5.3		
GRA1	e P	Z	20:04:10.4	84.0	200.5	1.5	62	5.6		
NOTT	e P	Z	20:04:11.7	84.3	201.3					
UBBA	e P	Z	20:04:14.5	84.8	199.5					
GUNZ	e P	Z	20:04:14.4	84.9	201.4					
BRG	e P	Z	20:04:18.7	85.8	202.7					
IBBN	e P	Z	20:04:18.8	85.8	197.6					
CLZ	e P	Z	20:04:19.3	85.9	199.7	2.1	43	5.2		
CLL	i P	Z	20:04:20.1	85.9	201.9	1.5	32	5.2		
	e		20:04:43.4							
	e PP	Z	20:07:48.4							
	i S	E	20:14:56.8							
	i SS	N	20:20:25.3							
	e L	Z	20:41:39.3			20.0	455		4.8	
NRDL	e P	Z	20:04:22.5	86.4	199.5					
RUE	e P	Z	20:04:26.4	87.2	202.5					
BSEG	e P	Z	20:04:28.4	87.8	199.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	01:30:52.1	4.790N	94.700E	33.0N	5.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:43:01.1	80.5	94.2	1.1	46	5.3		
GEC2	e P	Z	01:43:01.5	80.5	93.6	0.9	116	5.8		
RUE	e P	Z	01:43:02.1	80.7	94.3	0.9	123	5.9		
CLL	i P	+ Z	01:43:03.9	81.1	93.5	1.0	41	5.4		
	e pP	Z	01:43:12.4							
	e LmV	Z	02:25:41.8			20.0	97			
GUNZ	e P	Z	01:43:06.5	81.4	92.8					
WERD	e P	Z	01:43:06.3	81.5	92.8	1.1	38	5.3		
NOTT	e P	Z	01:43:07.2	81.6	92.6	1.0	26	5.3		
FUR	e P	Z	01:43:09.2	82.0	91.7	1.0	57	5.6		
GRA1	e P	Z	01:43:10.4	82.1	91.9	1.0	92	5.8		
GRFO	e P	Z	01:43:10.4	82.1	91.9	1.0	78	5.8		
CLZ	e P	Z	01:43:13.0	82.7	91.5	1.1	61	5.8		
BSEG	e P	Z	01:43:13.5	82.8	91.7	1.0	84	5.9		
NRDL	e P	Z	01:43:14.2	82.9	91.4	1.3	78	5.8		
UBBA	e P	Z	01:43:14.8	82.9	91.1	1.1	13	5.1		
STU	e P	Z	01:43:16.4	83.4	90.2	0.9	32	5.6		
TNS	e P	Z	01:43:19.3	83.9	89.8	1.0	50	5.7		
BFO	e P	Z	01:43:19.2	84.0	89.5	0.9	41	5.7		
IBBN	e P	Z	01:43:21.4	84.3	89.5					
BUG	e P	Z	01:43:22.9	84.7	89.0	1.1	66	5.8		
WLF	e P	Z	01:43:27.1	85.4	88.0	1.0	36	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	02:47:54.3	8.366N	92.988E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:59:51.5	78.3	90.8	1.4	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	04:44:33.6	2.010S	137.396E	28.0G		5.1		NEIC-M

Irian Jaya, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	05:04:19.5	114.1	62.1					
	e L	Z	05:56:30.6			19.8	492		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	05:44:19.6	19.880S	175.390W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	06:03:59.5	147.1	9.5					
CLZ	e PKPbc	Z	06:04:01.1	147.7	10.2					
CLL	e PKPbc	Z	06:04:01.1	147.9	15.0					
BRG	e PKPbc	Z	06:04:01.3	148.1	16.8					
WERD	e PKPbc	Z	06:04:03.5	148.8	14.1					
GUNZ	e PKPbc	Z	06:04:03.7	148.9	14.2					
NOTT	e PKPbc	Z	06:04:05.4	149.5	14.0					
TNS	e PKPbc	Z	06:04:04.6	149.5	7.1					
GRA1	e PKPbc	Z	06:04:06.6	149.7	12.4					
GEC2	e PKPbc	Z	06:04:07.7	150.1	17.4					
WLF	e PKPbc	Z	06:04:07.2	150.2	2.9					
BFO	e PKPbc	Z	06:04:10.5	151.4	7.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	08:12:39.9	21.540S	169.460E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	08:32:12.2	145.0	42.2					
CLL	e PKP	Z	08:32:12.2	145.0	40.4	1.0	19			
	e pPKP	Z	08:32:31.4							
	i PP	Z	08:35:29.3							
	e LmV	Z	09:43:35.6			18.9	408			
NRDL	e PKPbc	Z	08:32:13.2	145.2	35.1					
CLZ	e PKPbc	Z	08:32:14.2	145.6	36.0					
WERD	e PKPbc	Z	08:32:15.4	146.0	40.2					
GUNZ	e PKPbc	Z	08:32:15.7	146.0	40.3					
IBBN	e PKPbc	Z	08:32:16.1	146.2	31.6					
NOTT	e PKPbc	Z	08:32:17.5	146.6	40.6					
GEC2	e PKPbc	Z	08:32:17.4	146.6	43.9					
UBBA	e PKPbc	Z	08:32:17.2	146.6	36.4					
GRA1	e PKPbc	Z	08:32:19.5	147.0	39.3					
BUG	e PKPbc	Z	08:32:19.0	147.0	31.5					
TNS	e PKPbc	Z	08:32:21.0	147.7	34.5					
FUR	e PKPbc	Z	08:32:22.5	148.2	40.9					
STU	e PKPbc	Z	08:32:23.5	148.6	37.0					
WLF	e PKPbc	Z	08:32:25.0	148.9	31.2					
BFO	e PKPbc	Z	08:32:25.5	149.3	36.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:45:52.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	14:04:18.7	16.745N	90.315E	33.0G	4.8			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:15:29.3	70.3	87.1	1.0	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	19:30: 7.6	3.278N	95.380E	30.1	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:42:33.6	83.7	92.3	1.4	6	4.7		
	e pP	Z	19:42:42.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/09	22:14:12.2	50.149N	153.301E	33.0N	4.1			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:25:50.9	75.0	24.1	0.8	2	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	01:09:12.7	6.060S	101.430E	33.0N	5.8	6.2		SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	01:22:23.6	93.1	95.7	1.5	62	5.8		
BRG	e P	Z	01:22:23.6	93.1	95.8	1.9	112	6.0		
RUE	e P	Z	01:22:24.4	93.4	95.6					
CLL	i P	+ Z	01:22:26.1	93.7	95.0	1.9	74	5.8		
	e		01:22:56.1							
	e PP	Z	01:26:16.2							
	e x	Z	01:27:07.1							
	i S	N	01:33:39.1							
	e PS	E	01:35:03.5							
	e SS	N	01:39:55.1							

	e SSS	E	01:43:45.2						
	e LR	Z	01:58:03.7						
	e L	Z	02:12:54.7			22.0	10627		6.3
GUNZ	e P	Z	01:22:28.1	94.1	94.6	1.9	72	5.7	
	e PP	Z	01:26:15.4						
WERD	e P	Z	01:22:28.0	94.1	94.5	1.7	51	5.6	
NOTT	e P	Z	01:22:28.8	94.2	94.4	1.6	42	5.5	
FUR	e P	Z	01:22:30.0	94.6	93.9				
GRA1	e P	Z	01:22:31.4	94.8	93.8	1.6	85	5.9	
	e PP	Z	01:26:19.9						
	e L	Z	02:12:53.6			22.0	9092		6.2
CLZ	e P	Z	01:22:33.7	95.4	92.9	1.6	70	5.8	
	e PP	Z	01:26:25.4						
BSEG	e P	Z	01:22:34.2	95.5	92.7				
	e PP	Z	01:26:24.2						
UBBA	e P	Z	01:22:34.4	95.6	92.7				
NRDL	e P	Z	01:22:34.8	95.6	92.7	2.7	236	6.1	
STU	e P	Z	01:22:36.7	96.0	92.3	1.4	36	5.7	
TNS	e P	Z	01:22:39.2	96.6	91.6	1.6	63	5.9	
	e PP	Z	01:26:34.4						
BFO	e P	Z	01:22:39.1	96.6	91.7	1.4	15	5.4	
IBBN	e P	Z	01:22:40.9	97.0	90.8				
BUG	e P	Z	01:22:42.2	97.3	90.5	1.4	26	5.7	
	e PP	Z	01:26:41.7						
WLF	e P	Z	01:22:45.9	98.0	89.9	4.4	751	6.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	06:40:21.8	42.478S	42.281E	10.0G		5.0		NEIC-M

Prince Edward Islands, South Africa, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z	07:37:07.8	96.1	157.5	20.8	552		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	09:58:30.6	45.000N	146.950E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:10:08.4	74.4	30.3					
CLL	e P	Z	10:10:15.3	75.8	31.7	0.6	17	5.4		
BRG	e P	Z	10:10:16.4	75.9	32.2	1.0	5	4.6		
CLZ	e P	Z	10:10:17.6	76.2	30.0	0.7	9	5.0		
WERD	e P	Z	10:10:21.2	76.8	31.1	1.0	7	4.7		
GUNZ	e P	Z	10:10:21.4	76.8	31.1	0.6	6	4.9		
UBBA	e P	Z	10:10:23.1	77.2	29.7	0.6	6	4.9		

NOTT	e P	Z	10:10:25.1	77.4	30.9	0.7	4	4.7
GEC2	e P	Z	10:10:26.7	77.7	31.8	0.6	5	4.8
GRA1	e P	Z	10:10:27.6	77.8	30.3	0.7	27	5.5
TNS	e P	Z	10:10:29.7	78.2	28.6	1.0	8	4.7
BFO	e P	Z	10:10:38.4	79.9	28.3	0.9	5	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	11:18:17.5	21.340S	175.880W	50.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	11:37:54.6	147.1	10.7					
NRDL	e PKPbc	Z	11:37:58.8	148.5	10.7					
CLZ	e PKPbc	Z	11:38:00.1	149.1	11.4					
	e PKPab	Z	11:38:04.4							
CLL	e PKPdf	Z	11:37:57.9	149.2	16.3	0.5	4			
	i PKPbc	Z	11:38:00.2			0.8	46			
	e PKPab	Z	11:38:04.4			0.8	15			
BRG	e PKPbc	Z	11:38:00.7	149.5	18.2					
	e PKPab	Z	11:38:05.8							
BUG	e PKPbc	Z	11:38:02.1	149.8	5.8					
WERD	e PKPbc	Z	11:38:02.6	150.2	15.5					
	e PKPab	Z	11:38:08.7							
GUNZ	e PKPbc	Z	11:38:03.2	150.3	15.6					
	e PKPab	Z	11:38:08.9							
NOTT	e PKPbc	Z	11:38:04.4	150.8	15.4					
TNS	e PKPbc	Z	11:38:04.5	150.9	8.3					
GRA1	e PKPbc	Z	11:38:05.3	151.1	13.8					
GEC2	e PKPbc	Z	11:38:05.4	151.5	18.9					
	e PKPab	Z	11:38:14.1							
WLF	e PKPbc	Z	11:38:07.3	151.6	4.0					
BFO	e PKPbc	Z	11:38:08.3	152.8	8.6					
	e PKPab	Z	11:38:19.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	14:36:24.6	51.299N	178.845W	33.0N	5.1			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:48:23.7	78.6	6.4	1.1	21	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	16:43:33.0	61.927N	24.768W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:48:37.4	23.2	315.4	1.4	11	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	16:51:42.5	61.902N	25.223W	33.0N	4.5			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:56:48.9	23.4	315.2	1.9	28	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	21:13: 0.5	61.555N	26.529W	33.0N	4.7	4.1		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:18:12.0	23.9	314.0	1.8	44	4.7		
	e L	Z	21:27:54.6			18.0	539		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	21:16:34.3	62.251N	25.706W	33.0N	4.1			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:21:43.7	23.7	315.9	1.2	7	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	21:24:26.3	62.310N	26.929W	33.0N	4.1			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:29:40.8	24.3	315.7	1.6	12	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	21:17:13.0	5.600S	154.400E	90.0N				NEIC-M

Bougainville - Solomon Islands region

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

GRA1	e PKPdf	Z	21:36:04.5	126.1	47.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	21:40:34.4	61.997N	25.575W	33.0N	4.9	4.7		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	+ Z	21:45:39.0	23.4	312.1	1.9	60	4.8		
	i S	E	21:50:08.6							
	e L	Z	21:54:48.9			20.8	1815		4.5	
GRA1	e P	Z	21:45:42.6	23.6	315.3	1.4	24	4.9		
	e		21:45:58.5							
	e L	Z	21:55:26.0			18.5	2511		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	22:22:48.6	1.190N	96.380E	33.0N	4.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:35:25.9	86.0	92.9	1.0	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	22:29:53.3	2.360N	95.730E	33.0N	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	22:42:15.9	83.0	94.5	1.3	24	5.3		
BRG	e P	Z	22:42:15.8	83.0	94.9	1.2	12	5.0		
RUE	e P	Z	22:42:16.8	83.2	95.0	1.0	18	5.3		
CLL	e P	Z	22:42:18.4	83.6	94.2	1.5	14	5.0		
GUNZ	e P	Z	22:42:20.7	84.0	93.6	1.8	16	4.9		
WERD	e P	Z	22:42:20.6	84.0	93.6	1.2	7	4.8		
NOTT	e P	Z	22:42:21.5	84.1	93.4	1.7	13	4.9		
FUR	e P	Z	22:42:23.2	84.5	92.6	1.8	37	5.3		
GRA1	e P	Z	22:42:24.4	84.6	92.7	1.1	13	5.1		
CLZ	e P	Z	22:42:27.2	85.3	92.2	1.4	19	5.1		
BSEG	e P	Z	22:42:27.8	85.4	92.3	1.4	28	5.3		
NRDL	e P	Z	22:42:28.4	85.5	92.0	1.5	37	5.4		
UBBA	e P	Z	22:42:27.9	85.5	91.8	1.5	8	4.7		
STU	e P	Z	22:42:30.3	85.9	91.0	0.4	4	4.9		
TNS	e P	Z	22:42:33.1	86.4	90.6	1.1	12	4.9		
IBBN	e P	Z	22:42:35.1	86.9	90.2	1.1	26	5.3		
BUG	e P	Z	22:42:36.5	87.2	89.7	1.1	16	5.1		

	WLF	e P	Z	22:42:39.3	87.9	88.8	1.1	13	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/10	23:50:48.2	45.500N	144.500E	166.7				SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	00:01:59.8	73.2	31.7	1.3	12			
NRDL	e P	Z	00:02:07.9	74.5	31.3	1.3	12			
CLL	e P	Z	00:02:07.8	74.6	33.0	1.3	29			
BRG	e P	Z	00:02:08.3	74.6	33.5	1.4	12			
CLZ	e P	Z	00:02:11.0	75.0	31.4	1.1	16			
IBBN	e P	Z	00:02:13.0	75.4	29.8	0.9	18			
WERD	e P	Z	00:02:13.9	75.5	32.4	0.9	4			
GUNZ	e P	Z	00:02:13.9	75.6	32.4	0.9	8			
UBBA	e P	Z	00:02:16.3	76.0	31.0	0.7	5			
NOTT	e P	Z	00:02:17.0	76.1	32.2	1.0	9			
BUG	e P	Z	00:02:17.9	76.3	29.3	0.6	9			
GEC2	e P	Z	00:02:18.0	76.4	33.1	1.2	7			
GRA1	e P	Z	00:02:19.7	76.5	31.7	1.2	38			
	e pP	Z	00:03:00.3							
TNS	e P	Z	00:02:21.7	77.0	30.0	1.3	10			
FUR	e P	Z	00:02:26.3	77.8	31.5	1.0	26			
STU	e P	Z	00:02:27.9	78.0	30.3	0.8	18			
BFO	e P	Z	00:02:30.6	78.7	29.7	1.8	19			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	00:52: 8.4	44.508N	10.483E	10.0G			2.9	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	00:52:54.1	2.8	171.2					2.7
	e Sn	N	00:53:27.2							
WTTA	e Pn	Z	00:52:55.1	2.9	196.7					2.9
	e Sn	N	00:53:30.1							
KBA	e Pn	Z	00:52:59.2	3.3	218.9					2.8
OBKA	e Pn	Z	00:53:02.8	3.5	236.4					3.1
	e Sn	E	00:53:43.2							
BFO	e Pn	Z	00:53:09.6	4.1	158.0					3.1
MOA	e Pn	Z	00:53:13.5	4.2	219.5					2.8
	e Sn	E	00:53:59.6							
ARSA	e Pn	Z	00:53:16.3	4.5	233.8					
TNS	e Pn	Z	00:53:34.3	5.9	165.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	04:10:18.1	62.080N	25.004W	33.0N	3.9			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:15:24.0	23.3	315.7	1.0	4	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	06:29: 4.2	61.365N	24.813W	33.0N	4.0	4.1		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:34:07.4	23.1	314.0	0.8	5	4.0		
	e L	Z	06:43:50.2			18.1	661		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	06:42:43.1	61.680N	24.423W	33.0N	4.4			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:47:45.3	23.0	314.9	1.5	17	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	06:47:24.1	62.336N	24.761W	33.0N	4.5	4.4		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:52:29.5	23.3	316.4	1.3	20	4.5		
	e L	Z	07:02:03.1			18.6	1224		4.4	
GRC3	e P	Z	06:52:41.0	24.0	317.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	07:15:49.3	62.283N	24.674W	33.0N	4.0			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:20:54.2	23.2	316.3	1.1	5	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	07:16:39.0	62.699N	25.620W	33.0N	4.2	4.5		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:21:49.2	23.8	317.0	1.4	10	4.2		
	e L	Z	07:31:40.0			18.0	1463		4.5	
CLL	i P	Z	07:21:53.2	23.5	313.9	1.6	27	4.5		
	i S	E	07:26:08.9							
	e LR	Z	07:28:02.1							
	e L	Z	07:31:05.1			19.1	1027		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	07:38:22.8	61.543N	25.297W	33.0N	4.0			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:43:28.7	23.3	314.3	0.9	4	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	08:42:41.6	62.124N	24.711W	33.0N	4.0			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:47:46.3	23.2	315.9	0.8	4	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	08:55:14.0	62.019N	24.224W	33.0N	3.9			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:00:16.2	23.0	315.8	0.6	3	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	09:13:36.7	61.884N	25.408W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:18:43.9	23.5	315.1	0.9	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	09:33: 1.2	3.174N	97.324E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:45:34.0	85.1	90.9	0.8	5	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	09:58: 6.4	61.993N	24.966W	33.0N	4.2	3.9		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:03:11.8	23.3	315.5	1.5	13	4.2		
	e L	Z	10:12:51.7			18.3	428		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	10:04:18.8	62.332N	24.733W	33.0N	4.0			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:09:24.1	23.3	316.4	1.1	6	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	10:49:18.6	62.858N	24.939W	33.0N	4.6	4.0		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:54:26.3	23.5	317.6	1.7	34	4.6		
	e L	Z	11:03:50.9			18.2	443		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	11:07:44.0	62.579N	25.030W	33.0N	4.4			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:12:51.3	23.5	316.9	1.6	22	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	11:41:10.8	62.743N	25.015W	33.0N	4.5	3.7		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:46:18.5	23.5	317.3	13.0	17113	4.5		
	e L	Z	11:55:00.3			21.7	311		3.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	11:49:11.5	62.686N	25.204W	33.0N	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:54:19.9	23.6	317.1	0.7	6	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	12:38:28.2	62.958N	25.055W	33.0N	4.4	4.0		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:43:36.7	23.6	317.8	1.7	19	4.4		
	e L	Z	12:53:09.8			18.9	460		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	15:59:54.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:02:46.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	16:45:29.6	62.085N	25.710W	33.0N	4.3			SZGRF

Iceland region

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

GRA1	e P	Z	16:50:38.6	23.7	315.5	1.4	15	4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	17:30: 8.5	63.268N	24.870W	33.0N	3.9			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:35:17.1	23.6	318.6	0.9	3	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	17:51:39.0	62.054N	24.487W	33.0N	4.5			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:56:42.4	23.1	315.8	2.0	35	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:52:16.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/11	19:06:32.2	62.440N	25.236W	33.0N	4.7	3.8		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:11:40.0	23.5	316.5	1.6	43	4.7		
	e L	Z	19:21:12.3			18.6	281		3.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	02:11:53.0	61.591N	24.353W	33.0N	3.8			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:16:54.6	22.9	314.7	1.0	3	3.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	02:35:45.0	61.530N	25.188W	33.0N	4.1			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:40:50.4	23.3	314.3	1.7	10	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	08:37:25.8	18.358N	119.973E	33.0N	4.8			SZGRF

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:50:10.7	87.5	64.1	1.1	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	08:59:48.0	39.010N	38.390E	33.0N	4.5			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	09:04:21.8	20.2	109.9	1.4	8	3.8		
BRG	e P	Z	09:04:28.2	20.8	115.2	0.9	7	3.9		
NOTT	e P	Z	09:04:35.9	21.5	110.1	1.1	11	4.2		
FUR	e P	Z	09:04:36.1	21.5	105.1	1.0	74	5.1		
CLL	e P	Z	09:04:35.3	21.5	114.9	1.1	26	4.6		
GUNZ	e P	Z	09:04:36.1	21.6	111.7	1.3	38	4.7		
WERD	e P	Z	09:04:36.4	21.6	111.9	1.3	18	4.4		
GRA1	e P	Z	09:04:40.8	22.0	108.7	0.9	42	4.8		
MOX	e P	Z	09:04:41.2	22.1	111.4	1.5	28	4.5		
CLZ	e P	Z	09:04:53.7	23.3	112.4	1.2	18	4.5		
BFO	e P	Z	09:04:55.1	23.5	102.2	1.7	25	4.5		
NRDL	e P	Z	09:04:57.8	23.7	113.4	1.2	16	4.4		
TNS	e P	Z	09:05:00.5	23.9	106.5	1.4	32	4.7		
BSEG	e P	Z	09:05:02.9	24.2	116.7	1.0	21	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	09:09:10.1	61.248N	24.179W	33.0N	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:14:09.9	22.8	313.9	1.9	20	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	09:25:52.3	41.221N	37.060E	33.0N	4.4			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:30:21.2	19.9	105.3	1.0	23	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	11:15:34.9	56.680S	139.520W	10.0N		6.5		NEIC-M

Pacific-Antarctic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PP	Z	11:39:47.3	158.5	237.8					
BFO	e PKPdf	Z	11:35:34.7	159.0	234.5					
	e PKPab	Z	11:36:09.8							
	e PP	Z	11:39:50.5							
STU	e PKPdf	Z	11:35:35.7	159.7	235.3					
	e PKPab	Z	11:36:13.8							
BUG	e PKPdf	Z	11:35:36.2	160.0	241.8					
	e PP	Z	11:39:56.6							
TNS	e PKPdf	Z	11:35:36.3	160.1	238.8					
	e PKPab	Z	11:36:15.1							
	e PP	Z	11:39:55.9							
IBBN	e PKPdf	Z	11:35:37.3	160.7	243.9					
	e PKPab	Z	11:36:21.7							
UBBA	e PKPdf	Z	11:35:36.5	161.2	240.0					
	e PKPab	Z	11:36:19.9							
	e PP	Z	11:40:01.6							
GRFO	e PP	Z	11:40:02.0	161.3	236.9					
GRA1	e PKPdf	Z	11:35:37.4	161.3	236.9					
	e PP	Z	11:40:02.0							
	e SS	N	12:00:12.0							
	e SSS	N	12:05:39.6							
	e L	Z	12:55:27.2			20.7	7316		6.5	
NOTT	e PKPdf	Z	11:35:37.1	161.9	236.9					
	e PKPab	Z	11:36:22.3							
	e PP	Z	11:40:05.8							
CLZ	e PKPdf	Z	11:35:37.5	161.9	242.6					
	e PKPab	Z	11:36:23.4							
	e PP	Z	11:40:06.8							
MOX	e PKPdf	Z	11:35:37.4	162.0	239.2					
	e PKPab	Z	11:36:22.3							
	e PP	Z	11:40:06.4							
NRDL	e PKPdf	Z	11:35:37.8	162.1	244.4					
	e PKPab	Z	11:36:25.4							
	e PP	Z	11:40:07.2							
GEC2	e PKPdf	Z	11:35:37.2	162.2	233.9					

		e PP	Z	11:40:07.2					
	GUNZ	e PKPdf	Z	11:35:38.0	162.3	238.3			
		e PP	Z	11:40:07.3					
	WERD	e PKPdf	Z	11:35:38.1	162.3	238.5			
		e PKPab	Z	11:36:22.3					
		e PP	Z	11:40:07.4					
	BSEG	e PKPdf	Z	11:35:39.9	162.8	248.6			
		e PP	Z	11:40:10.1					
	CLL	e PKPdf	Z	11:35:38.4	163.1	240.7	4.1	1112	
		e PKPdif	Z	11:35:54.2					
		e PKPab	Z	11:36:27.0					
		e PP	Z	11:40:12.1					
		e PPPr	Z	11:47:44.4					
		e SKSP	Z	11:50:37.2					
		e SS	E	12:00:37.5					
		e SSS	N	12:06:52.7					
		e SSSS	E	12:11:23.0					
		e L	Z	12:41:03.2			22.0	8182	6.5
	BRG	e PKPdf	Z	11:35:38.6	163.4	239.2			
		e PKPab	Z	11:36:29.1					
		e PP	Z	11:40:13.2					
	RUE	e PP	Z	11:40:17.0	164.1	244.1			
	RGN	e PP	Z	11:40:20.5	164.6	251.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	16:04:29.5	6.353N	94.754E	42.3	5.1			SZGRF

Nicobar Islands, India, region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	16:16:41.2	81.0	90.8	1.1	24	5.1		
		e pP	Z	16:16:53.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	20:45: 4.2	62.061N	24.239W	33.0N	4.2			SZGRF

Iceland region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	20:50:06.5	23.0	315.9	0.8	7	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	20:52: 2.5	7.598S	156.132E	8?	5.5	5.3		NEIC-M

Solomon Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	21:11:08.0	126.9	48.0	0.9	10			
	e PP	Z	21:13:06.0							
	i SKSP	N	21:23:07.2							
	i PPS	Z	21:24:40.2							
	e SS	N	21:30:57.5							
	e SSS	N	21:35:12.4							
	e SSSS	N	21:39:02.5							
	e LQ	N	21:51:34.1							
	e LR	Z	21:53:26.1							
	e L	Z	22:12:34.2			19.6	1268		5.6	
CLZ	e PKP	Z	21:11:09.7	127.7	44.8					
GEC2	e PKP	Z	21:11:11.0	128.1	50.2					
GRA1	e PKP	Z	21:11:11.6	128.8	47.0					
	e		21:13:20.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	22:41:28.2	58.503N	151.966W	33.0N	4.8			SZGRF

Kodiak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:52:42.6	70.9	350.8	0.9	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	22:55: 1.7	29.111N	57.533E	33.0N	4.7			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:02:37.0	40.4	103.0	1.8	38	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	23:47:31.8	2.182N	95.727E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:00:03.1	84.8	92.8	1.2	15	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/12	23:58:30.1	61.780N	25.231W	33.0N	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:03:36.2	23.4	314.9	1.4	15	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	01:22:54.0	61.913N	24.658W	33.0N	4.0			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:27:57.9	23.1	315.4	1.2	6	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	02:21: 3.5	31.875N	154.677E	33.0N	4.9			SZGRF

North Pacific Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:34:10.3	92.2	30.4	1.1	5	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	02:43: 9.0	3.450N	95.630E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:55:26.4	82.1	94.3	1.0	5	4.6		
GEC2	e P	Z	02:55:26.7	82.1	93.8	0.9	6	4.8		
RUE	e P	Z	02:55:27.7	82.3	94.4	0.7	19	5.3		
CLL	e P	Z	02:55:29.8	82.7	93.6	0.5	3	4.7		
GUNZ	e P	Z	02:55:31.9	83.1	93.0	1.3	7	4.7		
WERD	e P	Z	02:55:31.5	83.1	93.0	0.9	2	4.4		
NOTT	e P	Z	02:55:32.4	83.2	92.7	1.1	2	4.3		
MOX	e P	Z	02:55:34.1	83.5	92.4					
GRA1	e P	Z	02:55:35.4	83.8	92.0	1.0	11	5.0		
CLZ	e P	Z	02:55:38.1	84.4	91.6	0.8	9	5.1		
BSEG	e P	Z	02:55:38.7	84.5	91.8	0.9	12	5.1		
NRDL	e P	Z	02:55:39.2	84.5	91.4	1.0	7	4.9		
BFO	e P	Z	02:55:44.4	85.6	89.7	0.8	4	4.6		
IBBN	e P	Z	02:55:46.6	86.0	89.6	0.7	14	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	04:23:32.3	5.630N	93.380E	32.8	5.2			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:35:33.2	79.0	94.7	1.5	37	5.2		
GEC2	e P	Z	04:35:33.4	79.0	94.1	1.3	50	5.4		
RUE	e P	Z	04:35:34.2	79.2	94.8	1.1	39	5.3		
CLL	e P	Z	04:35:36.5	79.6	94.0	1.4	28	5.1		
	e pP	Z	04:35:45.5							
	e L	Z	05:16:46.1			18.0	163		4.4	
GUNZ	e P	Z	04:35:38.6	80.0	93.3	1.4	23	4.9		
WERD	e P	Z	04:35:38.5	80.0	93.3	1.4	23	4.9		
NOTT	e P	Z	04:35:39.5	80.1	93.0	1.7	29	4.9		
MOX	e P	Z	04:35:41.0	80.4	92.8	1.5	30	5.0		
FUR	e P	Z	04:35:41.4	80.5	92.1	1.2	35	5.2		
GRA1	e P	Z	04:35:42.7	80.6	92.3	1.0	22	5.2		
	e pP	Z	04:35:52.1							
CLZ	e P	Z	04:35:45.3	81.3	92.0	1.2	25	5.1		
BSEG	e P	Z	04:35:46.0	81.4	92.3	1.2	41	5.3		
NRDL	e P	Z	04:35:46.6	81.4	91.9	1.5	54	5.3		
UBBA	e P	Z	04:35:46.2	81.5	91.6					
STU	e P	Z	04:35:48.9	81.9	90.6					
TNS	e P	Z	04:35:51.7	82.4	90.3	1.2	18	5.1		
BFO	e P	Z	04:35:51.6	82.5	89.9	1.3	12	5.0		
IBBN	e P	Z	04:35:53.9	82.9	90.0	1.0	27	5.4		
BUG	e P	Z	04:35:55.4	83.2	89.5	1.4	34	5.4		
WLF	e P	Z	04:35:59.7	83.9	88.5	1.5	38	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	10:23: 0.4	13.542N	90.889W	33.0N	5.1			SZGRF

Near coast of Guatemala

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:35:44.3	87.3	287.9	1.4	21	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	15:14:33.9	36.030N	140.940E	33.0N	4.8			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:26:44.5	80.5	38.5	0.7	5	4.7		
BRG	e P	Z	15:26:49.4	81.4	40.8	0.8	4	4.6		
CLL	e P	Z	15:26:49.4	81.5	40.2	0.6	7	5.0		
NRDL	e P	Z	15:26:51.3	81.7	38.2					
CLZ	e P	Z	15:26:53.0	82.1	38.3	0.9	7	4.8		
GUNZ	e P	Z	15:26:54.9	82.5	39.6	0.6	4	4.9		
IBBN	e P	Z	15:26:56.2	82.7	36.5					
NOTT	e P	Z	15:26:58.0	83.0	39.4	0.9	4	4.6		

GEC2	e P	Z	15:26:58.0	83.1	40.4	0.6	3	4.7
WET	e P	Z	15:26:58.8	83.2	39.9	0.9	4	4.6
GRA1	e P	Z	15:27:00.5	83.4	38.8	0.6	8	5.1
BFO	e P	Z	15:27:11.0	85.7	36.6	0.8	6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	16:11:42.7	51.889N	175.768W	33.0N	4.7			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:23:39.6	78.2	4.4	0.9	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/13	19:18: 0.4	4.280S	80.270W	33.0N	5.2			SZGRF

Peru-Ecuador border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:30:59.8	91.0	264.5	1.1	18	5.3		
BUG	e P	Z	19:31:03.1	91.8	265.4	0.9	8	5.0		
IBBN	e P	Z	19:31:05.2	92.2	265.8					
BFO	e P	Z	19:31:05.5	92.3	266.1	1.3	5	4.7		
STU	e P	Z	19:31:08.6	92.9	266.8	0.8	13	5.4		
NRDL	e P	Z	19:31:11.8	93.6	267.7	1.5	19	5.2		
CLZ	e P	Z	19:31:12.6	93.8	267.9	1.0	14	5.2		
BSEG	e P	Z	19:31:13.0	93.8	268.0	1.1	9	5.0		
GRA1	e P	Z	19:31:15.2	94.2	268.4	0.9	8	5.0		
MOX	e P	Z	19:31:15.5	94.5	268.7	1.4	11	5.0		
NOTT	e P	Z	19:31:17.1	94.8	269.1	1.8	21	5.3		
WERD	e P	Z	19:31:18.3	94.9	269.3	1.7	19	5.2		
GUNZ	e P	Z	19:31:18.2	95.0	269.3	1.7	22	5.3		
WET	e P	Z	19:31:19.3	95.3	269.6	2.1	19	5.2		
CLL	e P	Z	19:31:19.7	95.4	269.9	1.3	11	5.2		
RGN	e P	Z	19:31:21.0	95.6	270.4	0.9	15	5.5		
GEC2	e P	Z	19:31:21.9	95.8	270.2					
RUE	e P	Z	19:31:22.2	95.9	270.6	0.9	12	5.4		
BRG	e P	Z	19:31:22.5	96.0	270.6	1.3	10	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	23:46:36.9	35.190N	32.690E	33.0N	4.9	4.8		SZGRF

Cyprus region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	23:51:02.7	19.5	127.3	1.0	41	4.6		

WET	e	P	Z	23:51:09.0	20.1	126.4	1.1	92	4.9
FUR	e	P	Z	23:51:12.6	20.5	121.4	1.2	128	5.0
BRG	e	P	Z	23:51:15.0	20.7	132.0	0.9	61	4.9
NOTT	e	P	Z	23:51:17.3	20.9	126.5	1.0	68	4.9
GUNZ	e	P	Z	23:51:19.9	21.2	128.0	0.9	60	4.9
WERD	e	P	Z	23:51:20.2	21.2	128.2	0.8	38	4.8
GRA1	e	P	Z	23:51:21.7	21.3	124.7	1.1	81	5.0
CLL	e	P	Z	23:51:22.6	21.4	131.1	1.3	55	4.7
MOX	e	P	Z	23:51:25.9	21.7	127.3	0.9	75	5.1
RUE	e	P	Z	23:51:27.2	21.9	134.7	1.3	143	5.3
STU	e	P	Z	23:51:28.3	22.0	119.4	0.9	82	5.2
BFO	e	P	Z	23:51:31.1	22.3	117.2	1.0	84	5.1
CLZ	e	P	Z	23:51:39.1	23.0	127.5	1.0	30	4.8
TNS	e	P	Z	23:51:40.4	23.1	121.3	1.0	29	4.8
NRDL	e	P	Z	23:51:44.8	23.6	128.3	1.0	21	4.6
WLF	e	P	Z	23:51:50.5	24.1	116.8	1.0	40	4.9
IBBN	e	P	Z	23:51:55.5	24.6	124.2	1.0	42	5.1
GRA1	e	L	Z	00:00:51.0	21.3	124.7	19.8	476	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	01:53:21.3	45.824N	26.772E	130.1			5.1	SZGRF

Romania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z 01:55:33.1	9.3	103.9	0.9	257			
BRG	e	P	Z 01:55:38.9	9.9	115.7					
WET	e	P	Z 01:55:40.7	9.9	104.2					
NOTT	e	P	Z 01:55:48.9	10.6	106.5					
CLL	e	P	Z 01:55:48.3	10.6	115.7					
GUNZ	e	P	Z 01:55:49.4	10.6	109.7					
WERD	e	P	Z 01:55:49.7	10.7	110.1					
RUE	e	P	Z 01:55:50.1	10.8	123.0					
FUR	e	P	Z 01:55:52.0	10.8	96.7					
GRA1	e	P	Z 01:55:55.8	11.1	104.4					
MOX	e	P	Z 01:55:56.3	11.2	109.7					
UBBA	e	P	Z 01:56:09.4	12.2	107.7					
RGN	e	P	Z 01:56:08.6	12.2	130.0					
STU	e	P	Z 01:56:10.0	12.3	97.3					
CLZ	e	P	Z 01:56:10.5	12.3	112.8					
BFO	e	P	Z 01:56:16.2	12.8	94.4					
TNS	e	P	Z 01:56:20.0	13.0	102.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	05:05:18.4	0.120N	97.690E	33.0G	6.2	6.4		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:17:55.8	86.0	94.5	1.1	228	6.2		
	e PP	Z	05:21:26.4							
BRG	e P	Z	05:17:55.6	86.0	94.8	1.1	118	5.9		
	e PP	Z	05:21:26.4							
RUE	e P	Z	05:17:56.6	86.2	94.8	1.1	411	6.5		
WET	e P	Z	05:17:58.4	86.5	93.9	1.3	154	6.0		
CLL	e P	Z	05:17:58.6	86.6	94.1	1.3	131			
	i sP	Z	05:18:13.4							
	e		05:18:24.8							
	e PP	Z	05:21:24.3							
	e SKSac	R	05:28:22.7							
	e S	T	05:28:32.8							
	i PS	Z	05:29:31.4							
	e SS	R	05:34:19.0							
	e SSS	T	05:37:47.4							
	e LQ	N	05:43:48.1							
	e PKPPKPdf	Z	05:44:01.8							
	e LR	Z	05:49:26.6							
	e L	Z	06:02:06.8			20.0	20069		6.5	
RGN	e P	Z	05:17:59.0	86.6	94.5	1.3	343	6.3		
GUNZ	e P	Z	05:18:00.6	86.9	93.5	1.2	130	5.9		
WERD	e P	Z	05:18:00.5	87.0	93.5	1.2	116	5.9		
NOTT	e P	Z	05:18:01.3	87.0	93.3	1.4	124	5.8		
MOX	e P	Z	05:18:02.7	87.4	93.0	1.0	95	5.9		
FUR	e P	Z	05:18:02.9	87.5	92.6	1.1	96	6.0		
GRA1	e P	Z	05:18:04.2	87.6	92.6	1.3	264	6.4		
	e SKSac	E	05:28:29.4							
	e S	N	05:28:45.1							
	e PKPPKP	Z	05:44:00.6							
	e L	Z	06:07:19.6			21.8	17508		6.4	
CLZ	e P	Z	05:18:06.8	88.2	92.0	1.2	328	6.5		
BSEG	e P	Z	05:18:07.3	88.4	92.1	1.3	400	6.6		
NRDL	e P	Z	05:18:07.9	88.4	91.8	1.3	478	6.7		
UBBA	e P	Z	05:18:07.4	88.4	91.7	1.6	191	6.2		
STU	e P	Z	05:18:09.8	88.9	91.1	1.2	122	6.0		
TNS	e P	Z	05:18:12.6	89.4	90.5	1.4	347	6.4		
BFO	e P	Z	05:18:12.3	89.5	90.4	0.7	69	6.0		
HLG	e P	Z	05:18:14.1	89.8	90.1	1.3	312	6.4		
IBBN	e P	Z	05:18:14.5	89.9	90.0	1.6	638	6.6		
BUG	e P	Z	05:18:14.7	90.2	89.6	0.9	108	6.1		
WLF	e P	Z	05:18:19.7	90.9	88.8	1.2	232	6.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	07:49:25.7	61.964N	24.422W	33.0N	4.1			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:54:28.6	23.0	315.6	1.1	7	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	09:15:37.5	62.095N	24.491W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:20:41.1	23.1	315.9	1.5	12	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	10:02:44.9	22.740S	174.460W	126.1				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	10:22:13.5	148.6	8.5					
	e PKPbc	Z	10:22:17.4							
RUE	e pPKPbc	Z	10:22:54.5	149.6	15.1					
NRDL	e PKPdf	Z	10:22:15.7	150.0	8.5					
	e PKPbc	Z	10:22:21.0							
IBBN	e PKPbc	Z	10:22:22.0	150.4	4.1					
CLZ	e PKPdf	Z	10:22:16.9	150.7	9.1					
	e PKPbc	Z	10:22:22.7							
CLL	e PKPdf	Z	10:22:16.6	150.9	14.2					
	e PKPbc	Z	10:22:22.7							
BRG	e PKPdf	Z	10:22:17.2	151.1	16.2					
	e PKPbc	Z	10:22:23.4							
BUG	e PKPbc	Z	10:22:24.2	151.3	3.3					
	e PKPab	Z	10:22:31.6							
MOX	e PKPdf	Z	10:22:18.3	151.7	11.9					
	e PKPbc	Z	10:22:24.8							
	e PKPab	Z	10:22:33.1							
UBBA	e PKPdf	Z	10:22:17.8	151.7	8.7					
	e PKPbc	Z	10:22:24.4							
	e PKPab	Z	10:22:32.9							
WERD	e PKPdf	Z	10:22:18.1	151.8	13.3					
	e PKPbc	Z	10:22:25.0							
	e PKPab	Z	10:22:33.9							
GUNZ	e PKPdf	Z	10:22:18.3	151.9	13.4					
	e PKPbc	Z	10:22:25.1							
	e PKPab	Z	10:22:34.4							
TNS	e PKPbc	Z	10:22:26.7	152.4	5.8					
	e PKPab	Z	10:22:37.0							
NOTT	e PKPbc	Z	10:22:26.3	152.4	13.2					

GRA1	e PKPdf	Z	10:22:18.9	152.7	11.5	
	e PKPbc	Z	10:22:27.7			
	e PKPab	Z	10:22:37.7			
	e pPKPbc	Z	10:23:01.4			
WET	e PKPdf	Z	10:22:20.0	153.0	15.0	
	e PKPbc	Z	10:22:27.6			
	e PKPab	Z	10:22:38.6			
WLF	e PKPbc	Z	10:22:28.8	153.1	1.2	
	e PKPab	Z	10:22:39.8			
GEC2	e PKPdf	Z	10:22:20.1	153.1	16.8	
	e PKPbc	Z	10:22:27.6			
	e PKPab	Z	10:22:39.2			
STU	e PKPdf	Z	10:22:21.7	153.8	7.7	
	e PKPbc	Z	10:22:29.6			
	e PKPab	Z	10:22:42.5			
FUR	e PKPdf	Z	10:22:22.1	154.2	12.2	
	e PKPbc	Z	10:22:30.7			
	e PKPab	Z	10:22:43.5			
BFO	e PKPbc	Z	10:22:30.7	154.3	5.9	
	e PKPab	Z	10:22:44.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	10:26:49.3	45.280S	95.040E	33.0N				SZGRF

Southeast Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPdf	Z	10:45:31.3	117.7	128.2					
WET	e PKPdf	Z	10:45:32.7	118.3	127.6					
FUR	e PKPdf	Z	10:45:33.4	118.6	127.2					
BRG	e PKPdf	Z	10:45:33.8	118.8	127.5					
GUNZ	e PKPdf	Z	10:45:35.2	119.4	126.8					
WERD	e PKPdf	Z	10:45:34.9	119.4	126.7					
GRA1	e PKPdf	Z	10:45:35.3	119.5	126.5					
CLL	e PKPdf	Z	10:45:34.7	119.6	126.7	0.8	11			
	e PP	Z	10:47:00.6							
	e PPP	Z	10:49:24.7							
	e PS	E	10:56:53.4							
	i PPS	Z	10:58:11.8							
	i SS	E	11:03:39.5							
	e SSS	E	11:08:06.4							
	e SSSS	E	11:11:24.7							
	e LR	Z	11:24:44.6							
	e L	Z	11:35:01.9			22.0	1577		5.6	
MOX	e PKPdf	Z	10:45:35.6	119.9	126.3					
RUE	e PKPdf	Z	10:45:35.6	119.9	126.7					
STU	e PKPdf	Z	10:45:35.9	120.1	125.8					
BFO	e PKPdf	Z	10:45:36.4	120.3	125.6					

UBBA	e PKPdf	Z	10:45:37.3	120.8	125.3	
CLZ	e PKPdf	Z	10:45:38.6	121.2	125.0	
TNS	e PKPdf	Z	10:45:38.7	121.3	124.7	
NRDL	e PKPdf	Z	10:45:39.6	121.7	124.5	
BSEG	e PKPdf	Z	10:45:41.0	122.4	123.9	
BUG	e PKPdf	Z	10:45:42.1	122.6	123.4	
IBBN	e PKPdf	Z	10:45:41.6	122.8	123.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:34:45.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	18:00:20.3	36.260N	21.030E	33.0N	4.4			SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NOTT	e P	Z	18:03:55.4	15.0	151.2					
GRA1	e P	Z	18:03:58.3	15.2	148.4	1.5	58			
GUNZ	e P	Z	18:04:00.6	15.4	152.7					
BRG	e P	Z	18:04:00.8	15.5	158.1					
WERD	e P	Z	18:04:01.5	15.5	152.8					
MOX	e P	Z	18:04:05.6	15.9	151.2					
CLL	e P	Z	18:04:07.8	16.1	156.0					
UBBA	e P	Z	18:04:12.9	16.6	147.3					
RUE	e P	Z	18:04:18.1	17.0	159.6					
CLZ	e P	Z	18:04:21.9	17.3	149.9	1.5	45	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	18:04:58.9	29.430N	55.430E	33.0N	5.2	4.5		SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:12:07.3	37.1	106.0	2.0	235	5.7		
	e PcP	Z	18:14:26.7							
BRG	e P	Z	18:12:10.4	37.5	108.8	1.6	40	4.9		
	e PcP	Z	18:14:28.1							
WET	e P	Z	18:12:11.9	37.7	105.5	1.8	104	5.3		
RUE	e P	Z	18:12:15.4	38.2	110.5	1.8	137	5.4		
	e PcP	Z	18:14:29.4							
CLL	e P	Z	18:12:16.7	38.2	108.3	2.0	301	5.7		

NOTT	e P	Z	18:12:17.6	38.3	105.6	1.8	87	5.2	
GUNZ	e P	Z	18:12:18.1	38.4	106.5				
	e PcP	Z	18:14:30.3						
WERD	e P	Z	18:12:17.7	38.4	106.6	1.2	11	4.4	
FUR	e P	Z	18:12:18.7	38.5	102.8	1.4	88	5.3	
GRA1	e P	Z	18:12:22.4	38.9	104.6	1.0	71	5.3	
	e PcP	Z	18:14:32.9						
	e L	Z	18:33:20.9			19.4	652		4.5
MOX	e P	Z	18:12:21.9	38.9	106.1	1.1	16	4.7	
UBBA	e P	Z	18:12:30.8	39.9	104.8	1.5	63	5.0	
STU	e P	Z	18:12:30.3	40.0	101.6	1.4	80	5.1	
CLZ	e P	Z	18:12:31.4	40.0	106.3	1.5	179	5.5	
	e PcP	Z	18:14:35.7						
NRDL	e P	Z	18:12:34.2	40.3	106.8	1.4	95	5.2	
	e PcP	Z	18:14:35.6						
BFO	e P	Z	18:12:34.7	40.4	100.3	1.1	20	4.7	
TNS	e P	Z	18:12:38.2	40.7	102.6	1.3	130	5.4	
	e PcP	Z	18:14:38.2						
IBBN	e P	Z	18:12:45.1	41.6	104.3	1.2	88	5.4	
WLF	e P	Z	18:12:48.8	42.1	99.9	1.1	54	5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	20:40:40.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/14	22:10:42.6	61.844N	24.757W	33.0N	4.4			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:15:46.8	23.2	315.2	1.6	23	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	00:25: 9.2	19.756S	177.326W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	00:44:42.3	145.3	12.7					
IBBN	e PKPbc	Z	00:44:48.8	147.2	8.9					
CLZ	e PKPbc	Z	00:44:48.9	147.4	13.5					
CLL	e PKPbc	Z	00:44:48.9	147.4	18.3					

BRG	e PKPbc	Z	00:44:49.5	147.6	20.1
UBBA	e PKPbc	Z	00:44:51.1	148.4	13.2
NOTT	e PKPbc	Z	00:44:53.4	149.0	17.5
TNS	e PKPbc	Z	00:44:53.2	149.2	10.7
GRA1	e PKPbc	Z	00:44:54.4	149.3	15.9
GEC2	e PKPbc	Z	00:44:54.8	149.6	20.8
WLF	e PKPbc	Z	00:44:56.4	150.0	6.6
STU	e PKPbc	Z	00:44:56.8	150.5	12.5
FUR	e PKPbc	Z	00:44:56.3	150.8	16.7
BFO	e PKPbc	Z	00:44:58.1	151.1	11.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	03:09:45.4	36.830N	21.910E	33.0N				SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:13:20.6	15.0	145.0	1.1	13			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	07:16:52.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	10:01:21.6	36.057N	141.583E	33.0G	5.1			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:13:47.4	83.7	38.3	1.0	15	5.1		
	e		10:14:01.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	10:54: 7.1	38.441N	35.081E	33.0N	3.9			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:58:41.3	20.4	114.5	1.1	8	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	13:30:50.0	47.282N	17.484E	10.0G			3.5	SZGRF

Hungary

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pg	Z	13:31:13.2	1.3	87.9					3.2
	e Sg	N	13:31:32.4							
OBKA	e Pn	Z	13:31:24.7	2.1	67.9					3.4
MOA	e Pn	Z	13:31:26.3	2.2	103.5					3.4
KBA	e Pn	Z	13:31:34.7	2.8	84.3					
GEC2	e Pn	Z	13:31:36.4	3.0	120.3					
	e Sg	N	13:32:24.6							
WET	e Pn	Z	13:31:44.7	3.6	119.5					
	e Sg	E	13:32:43.5							
WTTA	e Pn	Z	13:31:51.2	4.0	87.6					
BRG	e Pn	Z	13:31:53.6	4.3	145.8					
	e Sg	N	13:33:02.9							
NOTT	e Pn	Z	13:31:55.2	4.4	123.4					
	e Sg	N	13:33:07.6							
FBE	e Sg	N	13:33:12.1	4.5	141.8					
TANN	e Pn	Z	13:31:58.1	4.6	131.6					
WERD	e Pn	Z	13:31:58.9	4.6	130.9					
GRA1	e Pn	Z	13:32:01.7	4.8	117.8					
	e Sg	N	13:33:21.2							
CLL	e Pn	Z	13:32:03.6	5.0	142.3					
MOX	e Pn	Z	13:32:05.7	5.1	128.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	19:22: 0.6	32.717N	91.615E	33.0N	5.0			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:32:03.0	59.8	73.7	1.5	24	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:12:27.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/15	23:01:28.7	2.280N	98.257E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:14:07.9	86.3	90.8	1.0	7	4.8		
	e		23:14:19.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	02:24:22.6	48.250N	148.250E	33.0N	4.2			SZGRF

Northwest of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	02:35:57.8	73.3	29.3	0.8	4	4.5		
IBBN	e P	Z	02:36:01.9	74.0	26.2	0.8	2	4.2		
MOX	e P	Z	02:36:03.5	74.3	28.3	0.9	1	3.9		
BUG	e P	Z	02:36:07.0	74.9	25.7	0.8	2	4.2		
NOTT	e P	Z	02:36:07.1	74.9	28.6	0.9	1	3.9		
GEC2	e P	Z	02:36:09.0	75.3	29.4	0.8	1	4.0		
WET	e P	Z	02:36:09.4	75.3	28.9	0.9	2	4.3		
GRA1	e P	Z	02:36:09.5	75.3	28.0	0.7	4	4.6		
FUR	e P	Z	02:36:17.2	76.6	27.8	0.8	3	4.4		
STU	e P	Z	02:36:16.8	76.7	26.6	0.8	2	4.2		
BFO	e P	Z	02:36:21.0	77.4	26.1	0.9	2	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	02:53:16.3	62.316N	24.923W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:58:22.4	23.4	316.3	1.6	12	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	03:54:11.2	32.980S	177.730W	33.0N		6.8		SZGRF

South of Kermadec Islands

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf		Z	04:14:06.3	158.3	18.5					
	e PKPab		Z	04:14:40.5							
	e PP		Z	04:18:19.8							
RUE	e PKPdf		Z	04:14:06.7	158.8	27.6					
NRDL	e PKPdf		Z	04:14:08.1	159.7	19.2					
CLL	i PKPdf	+	Z	04:14:08.2	160.1	27.3	1.3	89			
	i PKPdif		Z	04:14:21.3			2.2	264			
	e sPKPdif		Z	04:14:34.2							
	i PKPab	-	Z	04:14:47.7			1.1	153			

	e sPKPab	Z	04:14:59.4					
	e PP	Z	04:18:25.5					
	e sPP	Z	04:18:44.4					
	e PPP	Z	04:22:07.4					
	e PPPr	Z	04:27:02.0					
	e SKSP	R	04:28:58.6					
	e PPS	N	04:32:07.3					
	e SS	T	04:38:36.4					
	e SSS	T	04:44:58.4					
	e LR	Z	05:14:37.3					
	e L	Z	05:29:24.8			22.0	13889	6.8
BRG	e PKPdf	Z	04:14:08.3	160.2	30.0			
	e PKPab	Z	04:14:48.2					
	e PP	Z	04:18:30.6					
	e SS	E	04:38:51.8					
CLZ	e PKPdf	Z	04:14:08.8	160.2	20.5			
	e PKPab	Z	04:14:48.7					
	e PP	Z	04:18:30.4					
IBBN	e PKPdf	Z	04:14:08.8	160.3	13.7			
	e PKPab	Z	04:14:48.5					
	e SS	E	04:38:57.2					
WERD	e PKPdf	Z	04:14:09.5	161.0	26.7			
MOX	e PKPdf	Z	04:14:09.4	161.0	24.8			
	e PKPab	Z	04:14:52.8					
	e PP	Z	04:18:33.9					
	e SS	E	04:38:59.7					
GUNZ	e PKPdf	Z	04:14:09.7	161.1	26.9			
	e PKPab	Z	04:14:51.7					
	e PP	Z	04:18:34.5					
BUG	e PKPdf	Z	04:14:09.5	161.2	13.1			
NOTT	e PKPdf	Z	04:14:09.7	161.7	27.1			
	e PKPab	Z	04:14:55.4					
	e PP	Z	04:18:37.3					
	e SSS	E	04:45:00.5					
GEC2	e PKPdf	Z	04:14:10.1	162.0	32.5			
	e PKPab	Z	04:14:56.1					
	e PP	Z	04:18:39.2					
WET	e PKPdf	Z	04:14:10.3	162.0	30.0			
	e PKPab	Z	04:14:56.4					
GRA1	e PKPdf	Z	04:14:10.5	162.0	25.0			
	e PKPab	Z	04:14:56.5					
	e PP	Z	04:18:39.7					
	e SS	E	04:39:11.0					
	e SSS	E	04:45:41.7					
	e L	Z	05:30:19.7			21.9	13768	6.8
TNS	e PKPdf	Z	04:14:10.7	162.2	17.1			
	e PKPab	Z	04:14:57.6					
	e PP	Z	04:18:40.5					
WLF	e PKPdf	Z	04:14:12.7	163.1	11.2			

	e PKPab	Z	04:15:01.2			
	e SS	E	04:39:26.2			
FUR	e PKPdf	Z	04:14:11.4	163.4	27.3	
	e PKPab	Z	04:15:02.8			
STU	e PKPdf	Z	04:14:11.6	163.4	20.7	
BFO	e PKPdf	Z	04:14:12.2	164.0	18.7	
	e PKPab	Z	04:15:04.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	07:24:43.6	36.374N	122.163W	33.0N	4.7			SZGRF

Central California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:37:13.5	84.6	324.0	1.1	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	09:58:46.6	0.815S	96.802E	30.5	4.7			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:11:32.6	87.8	93.9	1.3	6	4.7		
	e pP	Z	10:11:41.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	11:34:12.0	17.200S	172.600W	34.0N				NEIC-M

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:53:53.9	147.4	6.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	11:50:11.4	47.990N	150.690E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:01:39.2	72.7	26.6	1.0	14	5.0		
RUE	e P	Z	12:01:40.9	73.0	28.6	1.2	24	5.2		
NRDL	e P	Z	12:01:46.7	74.1	26.2	1.1	15	5.0		
CLL	e P	Z	12:01:47.7	74.3	27.9	1.2	40	5.3		
BRG	e P	Z	12:01:48.5	74.4	28.4	1.3	16	4.9		
CLZ	e P	Z	12:01:50.1	74.6	26.3	1.4	44	5.3		

IBBN	e P	Z	12:01:51.4	74.8	24.7	0.8	21	5.2
WERD	e P	Z	12:01:53.7	75.3	27.4	1.0	11	5.0
MOX	e P	Z	12:01:53.8	75.3	27.0	1.2	18	5.1
GUNZ	e P	Z	12:01:54.1	75.3	27.4	0.8	11	5.0
BUG	e P	Z	12:01:56.2	75.8	24.3	1.1	26	5.3
NOTT	e P	Z	12:01:57.4	75.9	27.2	1.2	20	5.1
WET	e P	Z	12:01:59.7	76.3	27.6	1.1	27	5.3
GRA1	e P	Z	12:01:59.7	76.3	26.6	1.5	59	5.5
GEC2	e P	Z	12:01:59.2	76.3	28.0	1.4	17	5.0
TNS	e P	Z	12:02:01.0	76.6	24.9	1.3	33	5.3
FUR	e P	Z	12:02:07.0	77.6	26.5	1.2	37	5.4
STU	e P	Z	12:02:06.9	77.7	25.2	1.1	24	5.2
WLF	e P	Z	12:02:07.1	77.7	23.4	1.3	14	4.9
BFO	e P	Z	12:02:11.4	78.3	24.7	1.1	20	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	13:39:45.5	47.301N	17.478E	10.0G			3.2	SZGRF

Hungary

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	13:40:32.5	3.0	120.0					3.0
WET	e Pn	Z	13:40:40.2	3.6	119.3					3.2
NOTT	e Sg	E	13:42:00.9	4.3	123.3					3.2
TANN	e Pn	Z	13:40:54.8	4.5	131.4					3.5
	e Sg	E	13:42:08.1							
GRA1	e Sg	N	13:42:15.4	4.8	117.6					3.7
CLL	e Sg	N	13:42:21.0	5.0	142.2					3.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	13:56:14.4	46.493N	152.745E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:08:11.0	78.2	26.0	1.1	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	14:24:12.0	35.794N	29.656E	23.0G	3.6			nria-m

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:28:31.5	19.3	129.1	1.2	5	3.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	18:28:42.8	16.500S	178.650W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z	18:48:15.2	144.9	18.5					
GUNZ	e PKPbc	Z	18:48:15.6	145.0	18.6					
TNS	e PKPbc	Z	18:48:18.1	145.8	12.2					
GRA1	e PKPbc	Z	18:48:18.6	145.9	17.0					
WET	e PKPbc	Z	18:48:19.2	146.0	20.1					
GEC2	e PKPbc	Z	18:48:19.2	146.1	21.6					
WLF	e PKPbc	Z	18:48:21.0	146.6	8.4					
STU	e PKPbc	Z	18:48:22.4	147.1	13.9					
FUR	e PKPbc	Z	18:48:23.0	147.3	17.8					
BFO	e PKPbc	Z	18:48:23.7	147.7	12.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	21:07:48.2	1.062N	96.553E	33.0N	4.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:20:26.5	86.2	92.9	0.9	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/16	22:22:53.5	62.685N	24.321W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:27:58.1	23.2	317.4	1.9	16	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/17	00:32:15.9	43.585N	10.194E	10.0G			3.8	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	00:33:14.1	3.7	176.5					3.9
WTTA	e Pn	Z	00:33:15.0	3.8	195.9					4.0
KBA	e Pn	Z	00:33:19.3	4.1	213.5					3.5
OBKA	e Pn	Z	00:33:19.7	4.2	228.0					3.9
BFO	e Pn	Z	00:33:28.4	4.9	164.0					3.7
MOA	e Pn	Z	00:33:32.2	5.1	215.2					
STU	e Pn	Z	00:33:33.3	5.2	172.0					

	e Sn	N	00:34:29.3			
ARSA	e Pn	Z	00:33:32.6	5.2	227.5	
GEC2	e Pn	Z	00:33:40.1	5.8	206.1	
	e Sn	N	00:34:44.3			
WET	e Pn	Z	00:33:40.9	5.9	199.4	
	e Sn	Z	00:34:44.2			
GRA1	e Pn	Z	00:33:46.8	6.1	187.0	
TNS	e Pn	Z	00:33:53.7	6.7	169.2	
TANN	e Pn	Z	00:33:57.8	7.0	193.6	
BRG	e Pn	Z	00:34:05.9	7.7	200.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/17	03:03:48.3	21.150S	176.360W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	03:23:26.6	146.8	11.4					
NRDL	e PKPbc	Z	03:23:30.8	148.3	11.5					
CLZ	e PKPbc	Z	03:23:32.6	148.9	12.2					
CLL	e PKPbc	Z	03:23:32.5	149.0	17.1					
BRG	e PKPbc	Z	03:23:33.2	149.2	19.0					
MOX	e PKPbc	Z	03:23:34.8	149.8	14.9					
UBBA	e PKPbc	Z	03:23:33.5	149.9	11.9					
WERD	e PKPbc	Z	03:23:35.1	149.9	16.3					
GUNZ	e PKPbc	Z	03:23:35.4	150.0	16.4					
NOTT	e PKPbc	Z	03:23:36.7	150.6	16.3					
TNS	e PKPbc	Z	03:23:37.1	150.7	9.2					
GRA1	e PKPbc	Z	03:23:37.8	150.8	14.6					
WET	e PKPbc	Z	03:23:38.0	151.1	18.0					
GEC2	e PKPbc	Z	03:23:38.1	151.2	19.7					
WLF	e PKPbc	Z	03:23:39.2	151.4	4.9					
STU	e PKPbc	Z	03:23:40.4	152.0	11.1					
BFO	e PKPbc	Z	03:23:41.2	152.6	9.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/17	17:13:13.6	61.375N	24.231W	33.0N	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:18:14.0	22.8	314.2	1.5	14	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/17								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:57:43.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	04:37:50.5	51.840N	26.942W	33.0N	4.1			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:43:02.5	24.0	289.9	1.4	9	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	10:27: 6.6	16.829S	173.271W	33.0N		6.2		SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	10:46:37.3	144.2	5.5					
	e PP	Z	10:50:00.4							
CLZ	e PKPbc	Z	10:46:40.0	144.9	6.1					
CLL	e PKPdf	Z	10:46:41.7	145.2	10.5	1.0	18			
	i PP	Z	10:49:49.5							
	e SKKSac	N	10:56:48.7							
	e PPS	Z	11:02:22.7							
	i SS	E	11:08:25.3							
	i PSPS	N	11:09:28.9							
	i SSS	E	11:14:13.3							
	e LR	Z	11:35:08.8							
	e L	Z	11:54:26.6			20.0	5158		6.3	
BRG	e PKPbc	Z	10:46:40.7	145.5	12.2					
MOX	e PKPbc	Z	10:46:41.4	146.0	8.4					
WERD	e PKPbc	Z	10:46:41.9	146.1	9.6					
GUNZ	e PKPbc	Z	10:46:42.4	146.2	9.7					
TNS	e PKPbc	Z	10:46:43.6	146.6	3.0					
	e PP	Z	10:50:14.7							
NOTT	e PKPbc	Z	10:46:44.4	146.7	9.4					
GRA1	e PKPbc	Z	10:46:45.2	146.9	7.9					
	e L	Z	11:55:15.0			20.3	4070		6.2	
WLF	e PKPbc	Z	10:46:45.9	147.2	359.0					
WET	e PKPbc	Z	10:46:46.4	147.3	10.9					
GEC2	e PKPbc	Z	10:46:46.8	147.5	12.5					
STU	e PKPbc	Z	10:46:48.4	148.0	4.5					
FUR	e PKPbc	Z	10:46:49.7	148.4	8.3					
BFO	e PKPbc	Z	10:46:49.7	148.5	2.9					
	e PP	Z	10:50:26.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	11:37:33.8	5.241N	93.750E	56.3	5.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:49:33.9	79.5	94.6	1.4	82	5.6		
GEC2	e P	Z	11:49:34.1	79.5	94.1	1.3	124	5.8		
RUE	e P	Z	11:49:34.8	79.7	94.8	0.9	104	5.9		
WET	e P	Z	11:49:37.1	80.1	93.5	1.5	105	5.6		
CLL	i P	- Z	11:49:36.8	80.1	94.0	1.4	66	5.4		
	i pP	Z	11:49:52.8							
	i sP	Z	11:50:00.3							
	e L	Z	12:30:18.1			22.0	2728		5.5	
GUNZ	e P	Z	11:49:39.3	80.5	93.3	1.4	66	5.4		
WERD	e P	Z	11:49:39.2	80.5	93.3	1.4	55	5.3		
MOX	e P	Z	11:49:41.7	81.0	92.8	1.5	75	5.4		
FUR	e P	Z	11:49:42.1	81.1	92.1	1.3	75	5.6		
GRA1	e P	Z	11:49:43.4	81.2	92.3	1.2	81	5.6		
	e pP	Z	11:49:59.3							
CLZ	e P	Z	11:49:46.0	81.8	92.0	1.4	73	5.5		
BSEG	e P	Z	11:49:46.7	81.9	92.2	1.1	103	5.8		
NRDL	e P	Z	11:49:47.3	82.0	91.8	1.7	190	5.8		
UBBA	e P	Z	11:49:47.0	82.0	91.5					
STU	e P	Z	11:49:49.7	82.5	90.6					
TNS	e P	Z	11:49:52.5	83.0	90.2					
BFO	e P	Z	11:49:52.3	83.0	89.9	1.4	39	5.4		
IBBN	e P	Z	11:49:54.6	83.4	90.0	1.5	107	5.9		
BUG	e P	Z	11:49:56.1	83.7	89.5	1.2	57	5.7		
WLF	e P	Z	11:50:00.4	84.5	88.4	1.7	93	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	16:33: 7.4	43.600N	145.170E	56.4	5.1			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	16:44:45.7	75.1	32.1	0.9	30	5.3		
NRDL	e P	Z	16:44:52.7	76.4	31.8	0.8	9	5.0		
CLL	e P	Z	16:44:52.6	76.4	33.5	0.8	41	5.6		
BRG	e P	Z	16:44:52.9	76.5	34.1	0.8	8	4.9		
CLZ	e P	Z	16:44:55.8	76.9	31.8	0.8	24	5.4		
IBBN	e P	Z	16:44:57.7	77.3	30.2	0.8	24	5.4		
WERD	e P	Z	16:44:58.2	77.4	32.9	0.8	7	4.8		
GUNZ	e P	Z	16:44:58.7	77.5	33.0	0.7	12	5.1		
MOX	e P	Z	16:44:58.4	77.5	32.5	0.8	11	5.0		
UBBA	e P	Z	16:45:00.4	77.9	31.5	0.6	5	4.8		

NOTT	e P	Z	16:45:01.7	78.0	32.8	0.9	10	5.0
BUG	e P	Z	16:45:02.7	78.2	29.7	0.9	20	5.2
GEC2	e P	Z	16:45:02.8	78.2	33.7	0.6	8	4.9
WET	e P	Z	16:45:03.5	78.3	33.2	0.9	18	5.1
GRA1	e P	Z	16:45:04.0	78.4	32.2	0.8	33	5.4
	e pP	Z	16:45:20.0					
TNS	e P	Z	16:45:06.6	78.9	30.4	0.9	11	4.9
FUR	e P	Z	16:45:11.5	79.7	32.0	1.0	33	5.2
STU	e P	Z	16:45:11.8	79.9	30.7	0.8	18	5.1
BFO	e P	Z	16:45:15.2	80.6	30.1	0.9	8	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	17:03:49.8	30.193N	42.829W	33.0N	5.4	4.7		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	17:11:34.2	41.4	260.7	1.5	50	5.2		
BFO	e P	Z	17:11:42.8	42.6	264.0	1.0	33	5.3		
IBBN	e P	Z	17:11:45.5	42.8	259.3	1.1	66	5.6		
TNS	e P	Z	17:11:46.2	42.9	262.1	1.2	43	5.4		
STU	e P	Z	17:11:48.4	43.2	264.3	1.1	41	5.5		
UBBA	e P	Z	17:11:54.2	44.0	262.8	1.7	21	5.0		
NRDL	e P	Z	17:11:57.0	44.3	261.2	1.1	68	5.7		
CLZ	e P	Z	17:11:57.6	44.3	262.1	1.0	40	5.5		
GRA1	e P	Z	17:11:59.3	44.6	265.0	1.0	28	5.3		
	e L	Z	17:27:14.3			20.8	798		4.7	
BSEG	e P	Z	17:11:59.8	44.6	259.9	1.0	111	6.0		
MOX	e P	Z	17:12:02.1	45.0	264.3	1.0	15	5.0		
NOTT	e P	Z	17:12:03.8	45.2	265.6	49.8	599866	7.9		
WERD	e P	Z	17:12:05.5	45.4	265.1	1.4	16	4.8		
GUNZ	e P	Z	17:12:05.6	45.4	265.2	1.1	9	4.7		
WET	e P	Z	17:12:07.1	45.7	266.8	1.9	44	5.2		
CLL	e P	Z	17:12:09.6	45.9	264.8	0.9	19	5.1		
	i S	E	17:18:59.2							
	e SS	N	17:22:17.6							
	e LR	Z	17:25:29.7							
	e L	Z	17:27:44.2			22.0	1046		4.7	
GEC2	e P	Z	17:12:11.6	46.2	267.8	1.4	27	5.0		
BRG	e P	Z	17:12:13.6	46.4	266.0	1.6	21	4.8		
RUE	e P	Z	17:12:14.5	46.5	264.4	0.9	40	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	20:30:32.1	14.030N	87.820W	33.0G	5.4	4.7		SZGRF

Honduras

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	20:42:49.2	81.9	282.1	1.5	63	5.5		
BUG	e P	Z	20:42:50.0	82.2	282.7	1.3	44	5.4		
IBBN	e P	Z	20:42:50.8	82.3	283.0	0.7	20	5.3		
TNS	e P	Z	20:42:56.0	83.2	283.8	1.2	27	5.4		
BSEG	e P	Z	20:42:56.3	83.4	284.8	1.3	48	5.6		
BFO	e P	Z	20:42:56.5	83.6	283.9	1.4	18	5.1		
NRDL	e P	Z	20:42:57.9	83.6	284.8	1.6	56	5.5		
CLZ	e P	Z	20:42:59.8	84.0	285.1	1.4	54	5.6		
UBBA	e P	Z	20:43:00.0	84.0	284.9	2.0	43	5.3		
STU	e P	Z	20:42:59.7	84.0	284.5	0.8	14	5.2		
MOX	e P	Z	20:43:05.0	85.0	286.1	1.4	37	5.4		
GRA1	e P	Z	20:43:05.3	85.1	285.9	1.5	69	5.7		
	e L	Z	21:17:06.9			20.8	348		4.7	
WERD	e P	Z	20:43:07.4	85.5	286.7	1.4	55	5.5		
GUNZ	e P	Z	20:43:07.2	85.5	286.7	1.4	36	5.3		
NOTT	e P	Z	20:43:07.6	85.6	286.6	1.4	27	5.2		
CLL	i P	- Z	20:43:07.8	85.7	287.1	1.2	44	5.5		
	e (PP)	Z	20:46:36.3							
	e (SS)	Z	20:59:45.1							
	e LR	Z	21:10:32.8							
	e L	Z	21:18:55.2			20.0	313		4.7	
RUE	e P	Z	20:43:08.9	85.8	287.6	1.3	50	5.5		
WET	e P	Z	20:43:10.9	86.2	287.2	1.5	74	5.6		
BRG	e P	Z	20:43:11.2	86.4	287.9	1.3	41	5.4		
GEC2	e P	Z	20:43:14.1	86.8	287.8	1.4	32	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	21:41:11.1	45.598N	11.354E	10.0G			3.2	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pg	Z	21:41:41.3	1.7	186.8					3.4
	e Sg	N	21:42:04.0							
DAVA	e Pg	Z	21:41:46.6	2.0	148.4					2.7
	e Sg	N	21:42:14.0							
KBA	e Pn	Z	21:41:46.0	2.0	223.6					2.9
OBKA	e Pn	Z	21:41:49.5	2.4	248.8					3.2
	e Sn	N	21:42:22.0							
FUR	e Pn	Z	21:41:53.8	2.6	178.8					3.6
MOA	e Pn	Z	21:41:59.0	3.0	222.6					2.9
ARSA	e Pn	Z	21:42:01.4	3.3	241.6					2.6
BFO	e Pn	Z	21:42:04.2	3.4	141.8					
GEC2	e Pn	Z	21:42:06.9	3.6	207.0					3.5
	e Sn	N	21:42:48.3							
GRA1	e Sg	N	21:43:21.1	4.1	178.7					3.8
TNS	e Pn	Z	21:42:26.9	5.0	156.1					3.4

	e Sn	N	21:43:22.7			
MOX	e Sg	E	21:43:51.2	5.0	182.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/18	23:45: 4.0	6.900S	155.500E	53.0N				NEIC-M

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:04:16.5	127.8	47.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	01:12:32.4	60.850N	151.370W	109.1	5.4			SZGRF

Kenai Peninsula, Alaska, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:23:00.0	64.3	350.2	1.0	41	5.6		
IBBN	e P	Z	01:23:08.1	65.6	349.0	1.0	32	5.5		
NRDL	e P	Z	01:23:08.5	65.7	350.2	1.3	46	5.6		
RUE	e P	Z	01:23:11.1	66.1	352.1	0.8	54	5.9		
CLZ	e P	Z	01:23:13.1	66.4	350.4	0.7	44	5.8		
BUG	e P	Z	01:23:12.8	66.4	348.8	0.9	34	5.6		
CLL	i P	- Z	01:23:17.3	67.1	351.8	0.9	17	5.3		
	i pP	Z	01:23:44.3							
	e (S)	E	01:32:09.8							
	e (SS)	N	01:37:01.7							
UBBA	e P	Z	01:23:18.6	67.3	350.3	1.1	9	4.9		
BRG	e P	Z	01:23:20.9	67.7	352.3	0.9	19	5.3		
MOX	e P	Z	01:23:21.1	67.7	351.1	0.7	33	5.7		
TNS	e P	Z	01:23:21.6	67.7	349.5	0.8	18	5.3		
WERD	e P	Z	01:23:22.8	67.9	351.5	1.0	13	5.1		
WLF	e P	Z	01:23:23.6	68.0	348.4	1.3	51	5.6		
GUNZ	e P	Z	01:23:23.5	68.0	351.5	1.0	19	5.3		
NOTT	e P	Z	01:23:26.8	68.5	351.4	1.0	18	5.3		
GRA1	e P	Z	01:23:27.0	68.6	351.0	0.7	23	5.5		
	e pP	Z	01:23:54.5							
STU	e P	Z	01:23:31.0	69.3	350.0	0.8	18	5.3		
WET	e P	Z	01:23:31.4	69.3	351.9	1.3	20	5.1		
BFO	e P	Z	01:23:33.0	69.6	349.6	1.3	25	5.2		
GEC2	e P	Z	01:23:33.3	69.6	352.3	0.9	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	01:14:28.9	35.880N	140.820E	33.0	5.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	01:26:38.9	80.4	41.0	1.2	94	5.7		
	e PP	Z	01:29:43.3							
BSEG	e P	Z	01:26:40.0	80.6	38.6	1.1	84	5.7		
	e PP	Z	01:29:45.9							
BRG	e P	Z	01:26:44.8	81.5	40.9	1.0	34	5.4		
CLL	i P	+ Z	01:26:44.9	81.6	40.3	1.0	94			
	e pP	Z	01:26:54.4							
	e PPP	Z	01:32:09.3							
	e S	N	01:37:03.8							
	e L	Z	02:05:47.9			20.0	681		5.0	
NRDL	e P	Z	01:26:46.2	81.8	38.4	1.1	34	5.4		
CLZ	e P	Z	01:26:48.6	82.2	38.5	1.1	86	5.8		
WERD	e P	Z	01:26:50.2	82.5	39.8	1.2	32	5.4		
GUNZ	e P	Z	01:26:50.5	82.5	39.8	1.1	42	5.6		
	e PP	Z	01:29:58.9							
MOX	e P	Z	01:26:50.8	82.6	39.3	1.1	32	5.5		
	e PP	Z	01:29:59.3							
IBBN	e P	Z	01:26:51.3	82.8	36.6	1.1	89	5.9		
NOTT	e P	Z	01:26:53.4	83.1	39.6	1.3	79	5.8		
UBBA	e P	Z	01:26:53.0	83.1	38.1	1.6	50	5.5		
GEC2	e P	Z	01:26:53.3	83.1	40.6	1.2	38	5.5		
WET	e P	Z	01:26:54.3	83.3	40.0	1.3	48	5.6		
GRA1	e P	Z	01:26:55.9	83.5	38.9	1.2	167	6.1		
BUG	e P	Z	01:26:55.7	83.7	36.2	1.0	36	5.6		
TNS	e P	Z	01:26:58.8	84.2	37.0	1.2	48	5.6		
FUR	e P	Z	01:27:01.4	84.7	38.9	1.0	103	6.0		
	e PP	Z	01:30:16.6							
STU	e P	Z	01:27:03.0	85.1	37.4	1.1	116	6.0		
WLF	e P	Z	01:27:05.7	85.5	35.3	1.4	100	5.8		
BFO	e P	Z	01:27:06.3	85.8	36.8	1.1	85	5.8		
	e pP	Z	01:27:15.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	01:54:53.1	2.160N	97.190E	33.0N	6.1	6.8		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:07:20.8	84.1	93.9	1.4	194	6.1		
	e S	T	02:17:43.3							
GEC2	e P	Z	02:07:21.1	84.1	93.5	1.3	311	6.4		
	e S	T	02:17:43.6							
RUE	e P	Z	02:07:21.8	84.3	93.9	1.6	484	6.5		
	e S	T	02:17:44.6							
WET	e P	Z	02:07:23.8	84.6	92.9	1.5	219	6.2		
	e S	T	02:17:49.2							

CLL	e P	Z	02:07:23.5	84.7	93.2	1.3	111	5.9	
	e pP	Z	02:07:33.3						
	e PP	Z	02:10:44.0						
	e PPP	Z	02:12:51.6						
	e S	T	02:17:49.4						
	e SS	T	02:23:23.6						
	e SSS	T	02:26:43.1						
	e SSSS	T	02:29:48.2						
	e L	Z	02:53:42.6			20.0	38025		6.8
GUNZ	e P	Z	02:07:25.8	85.1	92.6	1.4	115	5.9	
	e PP	Z	02:10:42.1						
WERD	e P	Z	02:07:25.8	85.1	92.6	1.6	135	5.9	
NOTT	e P	Z	02:07:26.6	85.2	92.4	1.4	109	5.9	
	e S	T	02:17:56.1						
MOX	e P	Z	02:07:28.1	85.5	92.1	1.4	135	6.0	
	e S	T	02:17:57.6						
FUR	e P	Z	02:07:28.3	85.7	91.6	1.4	154	6.0	
	e S	T	02:17:58.4						
GRA1	e P	Z	02:07:29.6	85.7	91.7	1.3	233	6.3	
	e PP	Z	02:10:47.8						
	e S	T	02:18:01.5						
	e SS	T	02:23:52.6						
	e SSS	T	02:27:21.7						
	e L	Z	02:52:00.9			21.2	38265		6.8
CLZ	e P	Z	02:07:32.3	86.3	91.2	1.5	192	6.1	
	e S	T	02:18:05.8						
BSEG	e P	Z	02:07:32.9	86.4	91.3	1.4	301	6.3	
	e PP	Z	02:10:55.0						
	e S	T	02:18:07.1						
NRDL	e P	Z	02:07:33.5	86.5	91.0	1.7	437	6.4	
	e PP	Z	02:10:55.2						
	e S	T	02:18:07.6						
UBBA	e P	Z	02:07:33.1	86.6	90.8	2.3	315	6.1	
	e S	T	02:18:07.6						
STU	e P	Z	02:07:35.4	87.1	90.1	1.4	119	5.8	
	e S	T	02:18:13.6						
TNS	e P	Z	02:07:38.3	87.5	89.6	1.2	123	5.9	
	e S	T	02:18:18.1						
BFO	e P	Z	02:07:37.9	87.6	89.4	1.1	78	5.7	
	e S	T	02:18:18.9						
IBBN	e P	Z	02:07:40.3	87.9	89.1	1.4	453	6.4	
	e S	T	02:18:21.4						
BUG	e P	Z	02:07:41.7	88.3	88.7	1.4	328	6.3	
	e PP	Z	02:11:08.5						
	e S	T	02:18:25.0						
WLF	e P	Z	02:07:45.7	89.0	87.8	1.4	287	6.4	
	e S	T	02:18:32.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	07:11:17.6	14.838N	90.592W	33.0N	4.7			SZGRF

Guatemala

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:23:36.8	86.1	288.5	0.8	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:04:38.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:30:58.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	15:56:35.6	31.900S	70.100W	110.0N				GSRC-M

Chile-Argentina border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SKS	Z	16:22:37.1	108.7	242.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	20:44:13.7	1.110N	96.780E	32.3	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:56:44.8	84.6	94.5	1.3	21	5.2		
BRG	e P	Z	20:56:44.7	84.6	94.9	1.5	20	5.1		
WET	e P	Z	20:56:48.3	85.2	93.9	1.4	19	5.1		
CLL	e P	Z	20:56:48.2	85.2	94.2	1.0	7	4.9		
GUNZ	e P	Z	20:56:49.6	85.6	93.6	1.3	13	5.0		
WERD	e P	Z	20:56:49.6	85.6	93.6	0.9	6	4.8		
NOTT	e P	Z	20:56:51.1	85.7	93.4	1.2	6	4.6		
MOX	e P	Z	20:56:52.4	86.1	93.0	1.2	9	4.8		
GRA1	e P	Z	20:56:53.8	86.3	92.7	1.2	17	5.0		

	e pP	Z	20:57:03.2					
CLZ	e P	Z	20:56:56.7	86.9	92.1	1.2	18	5.1
BSEG	e P	Z	20:56:56.8	87.0	92.2	1.3	31	5.3
TNS	e P	Z	20:57:02.3	88.1	90.6	1.2	19	5.3
BFO	e P	Z	20:57:01.8	88.1	90.4	1.7	18	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19	23:19:54.5	42.366N	18.886E	10.0G			4.4	SZGRF

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	23:21:42.3	7.4	148.9					4.4
	e Sn	Z	23:23:03.0							
WET	e Pn	Z	23:21:50.4	8.0	146.1					
NOTT	e Pn	Z	23:21:59.9	8.8	145.3					
GRA1	e Pn	Z	23:22:03.7	9.0	141.2					
BRG	e Pn	Z	23:22:05.4	9.2	156.4					
GUNZ	e Pn	Z	23:22:05.3	9.2	148.1					
WERD	e Pn	Z	23:22:06.5	9.3	148.3					
BFO	e Pn	Z	23:22:09.5	9.5	124.9					
MOX	e Pn	Z	23:22:11.3	9.7	146.1					
TNS	e Pn	Z	23:22:25.6	10.6	133.6					
BUG	e Pn	Z	23:22:46.1	12.0	134.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pn	Z	23:47:42.9							
GRA1	e Pn	Z	23:47:32.2							
GUNZ	e Pn	Z	23:47:35.2							
MOX	e Pn	Z	23:47:42.5							
TANN	e Pn	Z	23:47:36.0							
WET	e Pn	Z	23:47:18.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/20	05:06:43.0	40.589N	138.909E	33.0N	4.5			SZGRF

Eastern Sea of Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:18:42.5	78.7	37.8	1.0	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/20	11:15: 3.3	49.600N	154.650E	33.0N	5.5	4.9		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:26:27.4	72.2	23.4	1.0	30	5.4		
RUE	e P	Z	11:26:29.9	72.7	25.4	1.0	56	5.7		
NRDL	e P	Z	11:26:35.2	73.6	23.1	0.9	30	5.3		
CLL	e P	Z	11:26:36.9	73.9	24.7	0.9	63	5.6		
BRG	e P	Z	11:26:37.8	74.1	25.3	0.9	19	5.1		
CLZ	e P	Z	11:26:38.8	74.1	23.2	1.2	62	5.5		
IBBN	e P	Z	11:26:39.5	74.3	21.6	1.0	69	5.7		
MOX	e P	Z	11:26:42.9	74.9	23.8	1.0	34	5.3		
WERD	e P	Z	11:26:43.0	74.9	24.2	1.3	38	5.3		
GUNZ	e P	Z	11:26:43.4	75.0	24.2	0.9	26	5.3		
UBBA	e P	Z	11:26:44.0	75.1	22.8	1.8	63	5.4		
BUG	e P	Z	11:26:44.5	75.2	21.2	1.0	45	5.6		
NOTT	e P	Z	11:26:46.7	75.5	24.0	1.2	41	5.4		
GRA1	e P	Z	11:26:48.9	75.9	23.5	1.0	70	5.8		
	e L	Z	11:40:04.2			18.1	598		4.9	
WET	e P	Z	11:26:49.3	75.9	24.4	1.0	50	5.6		
GEC2	e P	Z	11:26:49.0	76.0	24.9	0.8	20	5.3		
TNS	e P	Z	11:26:49.6	76.1	21.8	0.8	46	5.7		
WLF	e P	Z	11:26:55.6	77.1	20.3	1.4	30	5.2		
STU	e P	Z	11:26:56.1	77.2	22.1	1.1	41	5.5		
FUR	e P	Z	11:26:56.5	77.3	23.4	1.1	76	5.7		
BFO	e P	Z	11:26:59.5	77.9	21.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/20	11:25: 1.1	46.187N	25.963W	33.0N	4.8			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:30:21.4	24.9	276.3	1.6	33	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/20	12:40:38.5	24.720S	179.910W	539.0				i

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	12:59:35.4	149.8	18.7					
RUE	e PKPab	Z	12:59:37.6	150.4	25.8					
NRDL	e PKPab	Z	12:59:41.1	151.2	19.2					
CLL	e PKPdf	Z	12:59:25.1	151.6	25.3	2.0	52			

	i PKPbc	+ Z	12:59:31.7			0.8	80
	e PKPab	Z	12:59:43.0				
	i pPKPbc	Z	13:01:42.5				
	i pPKPab	Z	13:01:47.7			1.0	192
	e sPKPbc	Z	13:02:38.5				
	i pPP	Z	13:05:15.2				
	i sPP	Z	13:06:06.0				
	i SKKSac	N	13:09:08.4				
	e SKSP	Z	13:12:34.2				
	e PPS	Z	13:16:14.1				
	e SS	E	13:21:46.1				
	e sSS	E	13:25:42.7				
BRG	e PKPbc	Z	12:59:32.4	151.8	27.4		
CLZ	e PKPbc	Z	12:59:32.6	151.8	20.0		
	e PKPab	Z	12:59:43.8				
IBBN	e PKPbc	Z	12:59:32.8	151.8	14.9		
MOX	e PKPdf	Z	12:59:26.7	152.6	23.2		
	e PKPbc	Z	12:59:34.2				
	e PKPab	Z	12:59:46.7				
WERD	e PKPab	Z	12:59:47.0	152.6	24.7		
GUNZ	e PKPdf	Z	12:59:27.5	152.7	24.8		
	e PKPab	Z	12:59:47.4				
BUG	e PKPbc	Z	12:59:34.3	152.7	14.3		
UBBA	e PKPab	Z	12:59:47.3	152.8	20.0		
NOTT	e PKPab	Z	12:59:49.6	153.2	24.9		
	e pPKPab	Z	13:01:50.8				
GRA1	e PKPbc	Z	12:59:36.4	153.6	23.2		
	e PKPab	Z	12:59:51.3				
WET	e PKPab	Z	12:59:51.4	153.6	26.9		
GEC2	e PKPbc	Z	12:59:35.8	153.6	28.8		
	e PKPab	Z	12:59:51.0				
TNS	e PKPbc	Z	12:59:36.7	153.7	17.3		
	e PKPab	Z	12:59:51.4				
WLF	e PKPab	Z	12:59:56.2	154.6	12.9		
STU	e PKPab	Z	12:59:56.5	154.9	19.8		
FUR	e PKPab	Z	12:59:57.4	155.0	24.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/20	22:01:14.3	39.279N	143.670E	33.0N	5.4			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:13:29.7	81.7	35.3	1.0	30	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2005/05/21 04:29: 5.2 2.378N 98.154E 33.0N 4.6 SZGRF
Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:41:43.7	86.2	90.8	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21	05:11:42.5	2.510S	79.800W	43.7	5.7	6.1		SZGRF

Near coast of Ecuador

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	05:24:34.0	89.3	265.3	0.9	82	5.9		
BUG	e P	Z	05:24:37.7	90.1	266.1	1.1	30	5.5		
IBBN	e P	Z	05:24:39.3	90.5	266.5					
	e PP	Z	05:28:17.8							
BFO	e P	Z	05:24:39.3	90.6	266.9	1.0	13	5.2		
TNS	e P	Z	05:24:40.8	90.8	267.0	1.2	48	5.7		
	e PP	Z	05:28:19.7							
STU	e P	Z	05:24:42.7	91.2	267.6	1.0	43	5.7		
	e PP	Z	05:28:21.0							
UBBA	e P	Z	05:24:45.4	91.8	268.3	1.7	38	5.6		
NRDL	e P	Z	05:24:46.3	91.9	268.4	1.4	46	5.7		
	e PP	Z	05:28:27.7							
CLZ	e P	Z	05:24:47.0	92.1	268.6	1.1	53	5.9		
	e PP	Z	05:28:29.0							
BSEG	e P	Z	05:24:46.7	92.1	268.6					
GRA1	e P	Z	05:24:49.5	92.6	269.2	1.1	45	5.8		
	e pP	Z	05:25:02.3							
	e PP	Z	05:28:29.4							
	e SKSac	R	05:35:26.3							
	e S	R	05:35:49.7							
	e L	Z	06:04:21.6			20.9	7357		6.1	
FUR	e P	Z	05:24:49.2	92.6	269.1	1.1	40	5.8		
MOX	e P	Z	05:24:50.4	92.8	269.5	1.2	41	5.6		
WERD	e P	Z	05:24:52.5	93.3	270.0	1.0	51	5.8		
GUNZ	e P	Z	05:24:52.8	93.3	270.0	1.0	42	5.7		
CLL	i P	+ Z	05:24:54.8	93.7	270.6	0.9	54			
	i sP	Z	05:25:07.4							
	i PP	Z	05:28:42.3							
	i PPP	Z	05:30:27.9							
	i SKS	E	05:35:28.7							
	i S	E	05:35:54.1							
	i sS	E	05:36:33.8							
	i PS	E	05:37:24.6							
	i PPS	E	05:38:00.1							
	e SS	E	05:42:40.6							
	e sSS	E	05:43:40.6							

	e L	Z	06:17:48.6			18.5	4872		
RUE	e P	Z	05:24:56.1	94.2	271.3	0.8	45	6.0	
	e PP	Z	05:28:46.1						
GEC2	e P	Z	05:24:56.6	94.2	271.0	0.9	12	5.3	
	e PP	Z	05:28:44.7						
BRG	e P	Z	05:24:57.2	94.3	271.3	1.0	58	6.0	
	e PP	Z	05:28:46.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21	09:43:48.6	1.320N	96.397E	33.0N	4.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:56:25.4	85.9	92.8	0.8	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21	14:00:33.8	33.678N	139.252E	33.0N	4.7			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:13:05.1	84.8	41.2	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21	16:29:23.6	30.410N	138.610E	427.1	5.4			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	16:41:10.3	84.2	45.4	0.8	60	5.9		
BSEG	e P	Z	16:41:12.1	84.6	42.8	1.7	101	5.8		
	e pP	Z	16:42:48.7							
	e PP	Z	16:44:36.0							
BRG	e P	Z	16:41:15.5	85.2	45.4	0.8	31	5.5		
	e PP	Z	16:44:40.4							
CLL	e P	Z	16:41:15.5	85.3	44.7	1.0	51	5.6		
	e pP	Z	16:42:52.8							
NRDL	e P	Z	16:41:17.4	85.7	42.6					
CLZ	e P	Z	16:41:19.3	86.1	42.8	1.1	27	5.3		
	e pP	Z	16:42:57.0							
	e PP	Z	16:44:48.5							
WERD	e P	Z	16:41:20.3	86.3	44.1	1.2	18	5.1		
	e PP	Z	16:44:47.8							
GUNZ	e P	Z	16:41:20.8	86.3	44.2	0.8	20	5.3		
MOX	e P	Z	16:41:21.1	86.4	43.6	1.7	32	5.2		

GEC2	e P	Z	16:41:22.4	86.8	45.1	0.8	16	5.2
	e PP	Z	16:44:52.8					
NOTT	e P	Z	16:41:23.2	86.8	44.0	1.2	29	5.3
IBBN	e P	Z	16:41:22.8	86.8	40.8	1.3	60	5.6
	e pP	Z	16:42:59.6					
UBBA	e P	Z	16:41:24.0	87.0	42.4	0.9	7	4.8
GRA1	e P	Z	16:41:25.6	87.3	43.3	1.5	63	5.7
	e pP	Z	16:43:02.8					
	e PP	Z	16:44:56.8					
BUG	e P	Z	16:41:26.3	87.7	40.4	0.8	16	5.4
	e PP	Z	16:45:00.0					
TNS	e P	Z	16:41:28.8	88.1	41.3	0.9	7	5.0
	e PP	Z	16:45:03.4					
FUR	e P	Z	16:41:30.2	88.4	43.3	0.7	66	6.0
	e pP	Z	16:43:07.7					
	e PP	Z	16:45:07.8					
STU	e P	Z	16:41:32.4	88.9	41.8	0.9	47	5.7
	e PP	Z	16:45:09.9					
WLF	e P	Z	16:41:35.8	89.5	39.5	1.4	30	5.3
	e PP	Z	16:45:14.8					
BFO	e P	Z	16:41:35.7	89.6	41.1	1.0	45	5.7
	e PP	Z	16:45:14.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	19:57:13.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21	23:01:10.9	4.680N	94.820E	33.0N	6.1	4.7		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:13:20.7	80.6	94.1					
GEC2	e P	Z	23:13:21.1	80.6	93.6	1.0	227	6.2		
RUE	e P	Z	23:13:21.6	80.8	94.3	1.5	414	6.3		
CLL	i P	+ Z	23:13:23.5	80.7	93.0	1.3	106			
	e PP	Z	23:16:37.6							
	i S	N	23:23:24.4							
	i ScS	N	23:23:46.1							
	e L	Z	23:56:39.5			16.3	465			
GUNZ	e P	Z	23:13:26.1	81.6	92.8	1.4	128	5.9		
	e PP	Z	23:16:31.9							
WERD	e P	Z	23:13:26.0	81.6	92.8	0.1	12	5.9		

	e PP	Z	23:16:33.2						
NOTT	e P	Z	23:13:27.0	81.7	92.6	2.1	341	6.1	
MOX	e P	Z	23:13:28.4	82.1	92.3	2.1	308	6.1	
FUR	e P	Z	23:13:28.8	82.2	91.7	1.9	467	6.3	
GRA1	e P	Z	23:13:30.0	82.3	91.8	1.3	251	6.2	
	e L	Z	23:59:51.2			20.4	372		4.7
CLZ	e P	Z	23:13:32.6	82.9	91.5	1.5	227	6.2	
	e PP	Z	23:16:42.0						
BSEG	e P	Z	23:13:33.2	83.0	91.7	1.4	274	6.3	
NRDL	e P	Z	23:13:33.9	83.1	91.3	1.5	274	6.3	
	e PP	Z	23:16:44.8						
UBBA	e P	Z	23:13:33.6	83.1	91.1	2.1	217	6.0	
STU	e P	Z	23:13:36.2	83.6	90.2	1.1	97	5.9	
TNS	e P	Z	23:13:39.0	84.1	89.8	1.1	100	5.9	
	e PP	Z	23:16:53.1						
BFO	e P	Z	23:13:38.9	84.2	89.5	1.1	98	5.9	
IBBN	e P	Z	23:13:41.0	84.5	89.5	2.0	601	6.5	
	e PP	Z	23:16:57.3						
BUG	e P	Z	23:13:42.5	84.8	89.0	1.6	276	6.2	
WLF	e P	Z	23:13:46.8	85.6	88.0	1.6	225	6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/21	23:09: 3.2	0.930N	98.499E	33.0N	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:21:48.1	87.5	91.5	1.1	10	5.1		
	e pP	Z	23:21:55.1			1.1	10			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:01:32.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:10:14.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/22	01:17: 8.0	8.983N	92.991E	36.3	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:29:02.6	77.8	90.4	1.2	10	4.8		
	e pP	Z	01:29:13.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/22	01:25:30.8	2.351N	97.260E	33.0N	4.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:38:06.5	85.6	91.5	1.2	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/22	01:36:51.6	3.121S	98.754E	34.0	4.7			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:49:51.8	90.8	93.9	1.2	5	4.7		
	e pP	Z	01:50:01.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/22	22:19:36.8	61.820N	24.565W	33.0N	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:24:40.0	23.1	315.2	1.7	16	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/23	04:14:26.3				4.5			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:22:09.6			1.1	12	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/23	05:47:43.1			N	4.8			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:01:00.2			0.9	5	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/23	15:10:40.0	51.422N	179.076W	35.0N	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	15:22:38.0	78.5	6.5	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/23	20:18:32.8	72.020N	0.410E	33.0N	4.7			SZGRF

Norwegian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:22:48.5	18.6	350.4	1.7	47	4.4		
NRDL	e P	Z	20:23:04.2	20.0	351.2	1.7	56	4.5		
RUE	e P	Z	20:23:08.2	20.4	348.2	1.4	118	4.9		
CLZ	e P	Z	20:23:11.3	20.7	351.3	2.0	107	4.8		
BUG	e P	Z	20:23:12.5	20.8	354.0	1.6	78	4.8		
CLL	e P	Z	20:23:18.1	21.5	349.4					
	i pP	Z	20:23:19.5							
	e sP	Z	20:23:21.6			1.4	40			
	e S	E	20:27:17.8							
	e L	Z	20:32:32.3			17.0	701			
UBBA	e P	Z	20:23:19.9	21.6	352.0	1.7	44	4.6		
MOX	e P	Z	20:23:25.4	22.0	350.8	1.6	55	4.7		
TNS	e P	Z	20:23:26.7	22.1	353.4	1.8	73	4.8		
WERD	e P	Z	20:23:28.2	22.2	350.3	1.5	55	4.7		
GUNZ	e P	Z	20:23:29.1	22.3	350.3	1.3	33	4.6		
NOTT	e P	Z	20:23:34.3	22.8	350.7	1.4	25	4.5		
GRA1	e P	Z	20:23:34.6	22.9	351.4	1.6	43	4.7		
STU	e P	Z	20:23:43.7	23.6	353.2	1.7	50	4.8		
GEC2	e P	Z	20:23:45.4	24.0	349.9	1.5	52	4.8		
BFO	e P	Z	20:23:44.7	24.0	354.0	1.6	32	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/24	04:51:45.0	18.530S	177.300W	561.0N				SZGRF

Fiji Islands region

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

BSEG	e	PKPbc	Z	05:10:16.5	144.1	12.4
RUE	e	PKPbc	Z	05:10:19.1	145.0	18.5
IBBN	e	PKPbc	Z	05:10:22.3	146.0	8.6
CLZ	e	PKPdf	Z	05:10:21.0	146.1	13.1
	e	PKPbc	Z	05:10:23.0		
CLL	e	PKPbc	Z	05:10:22.9	146.2	17.8
BRG	e	PKPdf	Z	05:10:21.3	146.4	19.5
	e	PKPbc	Z	05:10:23.6		
BUG	e	PKPbc	Z	05:10:24.5	146.9	7.9
MOX	e	PKPdf	Z	05:10:22.2	147.1	15.7
	e	PKPbc	Z	05:10:25.2		
	e	PKPab	Z	05:10:28.6		
WERD	e	PKPdf	Z	05:10:22.5	147.2	17.0
	e	PKPbc	Z	05:10:25.4		
	e	PKPab	Z	05:10:29.1		
UBBA	e	PKPdf	Z	05:10:21.9	147.2	12.8
	e	PKPbc	Z	05:10:24.8		
GUNZ	e	PKPdf	Z	05:10:22.9	147.3	17.1
	e	PKPbc	Z	05:10:25.9		
	e	PKPab	Z	05:10:29.4		
NOTT	e	PKPbc	Z	05:10:27.2	147.8	16.9
	e	PKPab	Z	05:10:31.7		
TNS	e	PKPdf	Z	05:10:23.6	148.0	10.3
	e	PKPbc	Z	05:10:27.6		
	e	PKPab	Z	05:10:32.1		
GRA1	e	PKPbc	Z	05:10:28.0	148.1	15.4
	e	PKPab	Z	05:10:32.5		
GEC2	e	PKPdf	Z	05:10:24.3	148.4	20.2
	e	PKPbc	Z	05:10:28.6		
	e	PKPab	Z	05:10:34.0		
WLF	e	PKPab	Z	05:10:35.7	148.7	6.3
STU	e	PKPdf	Z	05:10:26.2	149.3	12.1
	e	PKPbc	Z	05:10:30.9		
	e	PKPab	Z	05:10:37.5		
FUR	e	PKPbc	Z	05:10:31.5	149.6	16.2
	e	PKPab	Z	05:10:38.4		
BFO	e	PKPbc	Z	05:10:32.1	149.9	10.7
	e	PKPab	Z	05:10:39.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/24	05:50:29.0	35.290N	22.730E	33.0G	3.9			SZGRF

Central Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NOTT	e P	Z	05:54:20.2	16.5	148.0	0.7	3	3.5		
GRA1	e P	Z	05:54:21.9	16.7	145.4	0.6	10	4.2		
BFO	e P	Z	05:54:24.9	16.8	135.5	1.3	12	3.9		

GUNZ	e P	Z	05:54:25.0	16.9	149.5	0.7	5	3.7
WERD	e P	Z	05:54:26.2	16.9	149.5	1.1	6	3.6
MOX	e P	Z	05:54:29.6	17.3	148.1	0.7	5	3.8
CLL	e P	Z	05:54:31.4	17.5	152.7	1.3	13	3.9
UBBA	e P	Z	05:54:37.3	18.0	144.5	0.7	4	3.7
TNS	e P	Z	05:54:39.3	18.2	139.8	0.6	8	4.0
CLZ	e P	Z	05:54:45.6	18.8	147.1	1.2	12	4.0
WLF	e P	Z	05:54:45.7	18.8	133.7	0.9	8	3.9
NRDL	e P	Z	05:54:52.5	19.4	147.5	1.8	19	4.0
BUG	e P	Z	05:54:55.4	19.6	139.5	0.7	7	4.0
BSEG	e P	Z	05:55:05.4	20.6	150.0	1.2	9	4.0
HLG	e P	N	05:51:58.3	21.5	145.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/24	09:37:58.7	3.506N	95.144E	33.0N	5.2			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:50:23.1	83.4	92.4	1.5	24	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/24	15:31:35.9	18.610S	172.860W	33.0N				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	15:51:12.4	146.0	5.0					
CLL	e PKPbc	Z	15:51:14.4	147.0	10.2					
BRG	e PKPbc	Z	15:51:16.3	147.3	12.0					
UBBA	e PKPbc	Z	15:51:16.3	147.7	5.1					
MOX	e PKPbc	Z	15:51:17.8	147.8	8.0					
WERD	e PKPbc	Z	15:51:17.8	147.9	9.2					
GUNZ	e PKPbc	Z	15:51:17.3	148.0	9.3					
TNS	e PKPbc	Z	15:51:18.6	148.4	2.4					
NOTT	e PKPbc	Z	15:51:19.2	148.5	9.1					
GRA1	e PKPbc	Z	15:51:20.0	148.7	7.5					
WLF	e PKPbc	Z	15:51:20.8	148.9	358.2					
GEC2	e PKPbc	Z	15:51:21.6	149.3	12.2					
BFO	e PKPbc	Z	15:51:23.8	150.3	2.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/24	19:51:45.4	15.920S	174.540W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
UBBA	e PKPbc	Z	20:11:18.2	144.9	7.6					
MOX	e PKPbc	Z	20:11:17.4	144.9	10.3					
WERD	e PKPbc	Z	20:11:18.0	145.0	11.5					
GUNZ	e PKPbc	Z	20:11:18.3	145.1	11.6					
TNS	e PKPbc	Z	20:11:19.8	145.6	5.1					
NOTT	e PKPbc	Z	20:11:20.5	145.7	11.4					
GRA1	e PKPbc	Z	20:11:21.4	145.9	9.9					
WLF	e PKPbc	Z	20:11:22.0	146.3	1.2					
GEC2	e PKPbc	Z	20:11:22.9	146.4	14.4					
FUR	e PKPbc	Z	20:11:26.7	147.4	10.4					
BFO	e PKPbc	Z	20:11:26.8	147.5	5.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/25	07:50:43.1	5.861N	96.043E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:03:01.2	82.2	90.1	1.3	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/25	11:02:48.2	29.661S	13.182W	33.0N	4.8	4.6		SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:15:06.7	82.3	201.2	1.2	10	4.8		
	e L	Z	11:50:37.8			21.8	272		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/25	14:42:17.7	3.299N	95.249E	29.8	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	14:54:39.0	82.6	94.0					
	e S	N	15:04:54.6							
	e L	Z	15:35:51.1			20.0	265			
GRA1	e P	Z	14:54:43.7	83.6	92.4	1.0	8	4.9		
	e pP	Z	14:54:52.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/25	18:47:28.3	0.056S	97.790E	33.0N	4.9			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:00:14.6	87.8	92.7	0.9	5	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/25	20:29:23.7	62.560N	29.600W	33.0N	4.3			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:34:19.1	22.3	308.7	0.9	8	4.2		
NRDL	e P	Z	20:34:27.6	23.1	311.4	1.5	19	4.4		
CLZ	e P	Z	20:34:34.2	23.6	312.4	1.5	17	4.4		
TNS	e P	Z	20:34:36.2	23.9	315.5					
MOX	e P	Z	20:34:45.5	25.0	314.1	1.3	8	4.3		
CLL	e P	Z	20:34:48.3	25.2	312.9					
BFO	e P	Z	20:34:47.2	25.2	318.4	1.4	14	4.5		
STU	e P	Z	20:34:49.0	25.3	317.5	0.6	10	4.8		
GRA1	e P	Z	20:34:51.3	25.5	315.7	1.6	23	4.6		
GUNZ	e P	Z	20:34:50.5	25.6	314.5	1.1	6	4.2		
NOTT	e P	Z	20:34:52.8	25.9	315.3	1.5	7	4.1		
BRG	e P	Z	20:34:54.1	25.9	313.5	1.0	2	3.8		
FUR	e P	Z	20:35:01.2	26.7	317.8					
GEC2	e P	Z	20:35:06.8	27.3	316.4	1.7	10	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/25	21:02:36.2	59.398N	24.548W	33.0N	3.9			SZGRF

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:07:33.9	22.5	309.1	0.8	3	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/26	06:06:55.0	23.500S	176.300W	50.0N				NEIC-M

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPdf	+ Z	06:26:44.3	151.3	18.0	1.0	13			
	i PKPbc	Z	06:26:52.4							
	i PKPab	+ Z	06:26:59.3			0.9	20			
GRA1	e PKP	Z	06:27:01.0	153.2	15.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/26	10:08:26.4	5.660N	93.390E	32.6	5.6	5.1		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:20:27.4	79.0	94.6	1.9	161	5.7		
GEC2	e P	Z	10:20:27.6	79.0	94.0	1.7	210	5.9		
RUE	e P	Z	10:20:28.3	79.2	94.8	1.6	194	5.9		
CLL	e P	Z	10:20:30.2	79.6	94.0	1.9	105	5.5		
GUNZ	e P	Z	10:20:32.7	79.9	93.3	2.0	136	5.5		
WERD	e P	Z	10:20:32.7	80.0	93.3	0.9	27	5.2		
NOTT	e P	Z	10:20:33.6	80.0	93.0	1.9	98	5.4		
MOX	e P	Z	10:20:35.2	80.4	92.8	1.5	64	5.3		
FUR	e P	Z	10:20:35.5	80.5	92.1	2.0	216	5.8		
GRA1	e P	Z	10:20:36.8	80.6	92.3	1.7	170	5.8		
	e pP	Z	10:20:46.2							
	e PP	Z	10:23:45.1							
	e L	Z	11:02:54.1			21.9	860		5.1	
CLZ	e P	Z	10:20:39.5	81.2	92.0	1.7	108	5.6		
BSEG	e P	Z	10:20:40.2	81.4	92.3	1.3	96	5.7		
NRDL	e P	Z	10:20:40.8	81.4	91.9	1.5	126	5.7		
UBBA	e P	Z	10:20:40.4	81.4	91.5	2.1	80	5.4		
STU	e P	Z	10:20:43.0	81.9	90.6	0.9	25	5.4		
TNS	e P	Z	10:20:45.9	82.4	90.2	2.2	170	5.8		
BFO	e P	Z	10:20:45.8	82.5	89.9	1.0	21	5.3		
IBBN	e P	Z	10:20:48.1	82.9	90.0	1.8	156	5.9		
BUG	e P	Z	10:20:49.5	83.2	89.5	1.9	139	5.9		
WLF	e P	Z	10:20:53.8	83.9	88.4	1.6	113	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/26	15:55:57.5	15.867N	98.353W	87.9	4.7			SZGRF

Off coast of Guerrero, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:08:47.1	90.0	295.0	1.4	7	4.7		
	e pP	Z	16:09:10.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/26	18:17:27.1	35.170N	132.670E	33.0N	4.9			SZGRF

Western Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	18:29:23.8	78.0	44.9	0.9	13	5.1		
BRG	e P	Z	18:29:26.7	78.5	47.0	1.0	5	4.4		

CLL	e P	Z	18:29:27.5	78.7	46.4	1.2	19	5.0	
CLZ	e P	Z	18:29:32.2	79.5	44.7	0.9	10	4.7	
WERD	e P	Z	18:29:32.8	79.6	45.8	1.1	8	4.6	
GUNZ	e P	Z	18:29:33.0	79.6	45.8	1.1	10	4.7	
MOX	e P	Z	18:29:33.5	79.7	45.4	1.0	6	4.5	
GEC2	e P	Z	18:29:35.1	80.0	46.6	1.1	10	4.7	
NOTT	e P	Z	18:29:36.0	80.1	45.6	1.3	19	4.9	
IBBN	e P	Z	18:29:36.8	80.2	42.9	1.2	12	4.8	
GRA1	e P	Z	18:29:38.7	80.6	45.0	1.1	32	5.3	
TNS	e P	Z	18:29:42.9	81.5	43.1				
FUR	e P	Z	18:29:44.4	81.7	44.8	1.0	40	5.5	
STU	e P	Z	18:29:46.2	82.2	43.5	1.0	20	5.2	
WLF	e P	Z	18:29:50.2	82.9	41.5	2.3	76	5.5	
BFO	e P	Z	18:29:49.7	82.9	42.9	0.8	15	5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/26	22:34:48.4	10.632S	66.698E	33.0N				SZGRF

Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:46:40.2	77.3	123.9					
CLL	e P	Z	22:46:41.0	77.1	125.6	2.0	32			
	e S	N	22:56:37.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/27								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:20:57.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/27	08:07:20.6	39.250N	140.920E	110.5	5.3			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	08:19:05.6	77.5	39.2	0.8	38	5.6		
BSEG	e P	Z	08:19:06.5	77.6	37.0	1.1	51	5.6		
BRG	e P	Z	08:19:11.8	78.6	39.1	0.9	25	5.2		
CLL	i P	- Z	08:19:12.0	78.7	38.5	0.9	56			
	i pP	Z	08:19:40.4							
	e PP	Z	08:22:11.3							
NRDL	e P	Z	08:19:13.0	78.8	36.7	1.3	25	5.1		
CLZ	e P	Z	08:19:15.6	79.3	36.8	1.2	51	5.3		

WERD	e P	Z	08:19:17.3	79.6	38.0	1.1	19	4.9
GUNZ	e P	Z	08:19:17.7	79.7	38.0	1.0	24	5.1
MOX	e P	Z	08:19:17.8	79.7	37.5	1.2	26	5.0
IBBN	e P	Z	08:19:18.3	79.8	35.0	1.3	68	5.4
NOTT	e P	Z	08:19:20.7	80.2	37.8	1.1	33	5.3
UBBA	e P	Z	08:19:20.0	80.2	36.4	0.9	9	4.8
GEC2	e P	Z	08:19:20.8	80.3	38.7	0.8	19	5.2
GRA1	e P	Z	08:19:23.3	80.6	37.1	0.9	58	5.6
	e pP	Z	08:19:51.6					
BUG	e P	Z	08:19:22.8	80.7	34.6	0.9	26	5.3
TNS	e P	Z	08:19:26.1	81.3	35.3	1.0	19	5.2
FUR	e P	Z	08:19:29.2	81.8	37.0	1.0	90	5.9
STU	e P	Z	08:19:30.7	82.2	35.7	0.8	32	5.5
WLF	e P	Z	08:19:33.1	82.6	33.7	1.0	11	5.1
BFO	e P	Z	08:19:34.3	82.9	35.1	1.0	46	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/28	01:31:10.2	51.470N	158.170E	33.0N	4.9			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:42:28.6	71.2	20.5	1.1	17	5.1		
NRDL	e P	Z	01:42:36.7	72.6	20.2	1.1	9	4.8		
CLL	e P	Z	01:42:39.0	73.1	21.8	1.0	21	5.2		
CLZ	e P	Z	01:42:40.4	73.2	20.3	1.0	21	5.1		
BRG	e P	Z	01:42:40.5	73.3	22.3	1.4	12	4.8		
IBBN	e P	Z	01:42:41.2	73.3	18.7	0.2	6	5.4		
MOX	e P	Z	01:42:44.8	74.0	20.9	1.1	8	4.6		
WERD	e P	Z	01:42:45.2	74.0	21.3	1.3	14	4.8		
GUNZ	e P	Z	01:42:45.8	74.1	21.3	1.4	13	4.8		
BUG	e P	Z	01:42:45.7	74.2	18.4	1.2	17	5.0		
UBBA	e P	Z	01:42:45.8	74.2	20.0	1.5	15	4.8		
NOTT	e P	Z	01:42:49.1	74.7	21.1	1.1	10	4.7		
GRA1	e P	Z	01:42:51.2	75.0	20.6	1.2	28	5.2		
TNS	e P	Z	01:42:51.3	75.1	19.0	1.1	11	4.8		
GEC2	e P	Z	01:42:51.9	75.2	22.0	1.1	10	4.8		
STU	e P	Z	01:42:58.1	76.3	19.3	1.2	16	5.0		
FUR	e P	Z	01:42:59.0	76.4	20.5	1.1	19	5.1		
BFO	e P	Z	01:43:01.5	76.9	18.7	1.4	18	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/28	06:23:28.2	0.807N	96.564E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

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

	GRA1	e	P		Z	06:36:07.5	86.4	93.0	0.8	6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/28	13:25:54.3	19.645S	179.136W	33.0N				SZGRF

Fiji Islands region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e	PKPbc	Z	13:45:33.8	146.9	11.9					
CLL	e	PKPbc	Z	13:45:33.1	146.9	21.3					
CLZ	e	PKPbc	Z	13:45:33.2	147.0	16.6					
BRG	e	PKPbc	Z	13:45:33.8	147.1	23.1					
WERD	e	PKPbc	Z	13:45:36.0	147.9	20.6					
GUNZ	e	PKPbc	Z	13:45:36.4	148.0	20.7					
NOTT	e	PKPbc	Z	13:45:37.9	148.5	20.6					
TNS	e	PKPbc	Z	13:45:38.7	148.8	13.9					
GRA1	e	PKPbc	Z	13:45:38.3	148.8	19.1					
GEC2	e	PKPbc	Z	13:45:39.2	149.0	24.0					
WLF	e	PKPbc	Z	13:45:41.0	149.7	9.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/28	20:54:31.2	32.420N	138.510E	33.0N	5.3			SZGRF

Southeast of Honshu, Japan

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	P	Z	21:06:52.3	82.4	44.4	1.4	48	5.5		
BSEG	e	P	Z	21:06:53.5	82.8	42.0	1.1	25	5.4		
BRG	e	P	Z	21:06:57.3	83.5	44.4	0.9	6	4.8		
CLL	i	P	- Z	21:06:57.5	83.6	43.7	1.0	23			
	e	pP	Z	21:08:08.1							
	i	PP	Z	21:10:09.1							
	e	L	Z	22:23:26.8							
CLZ	e	P	Z	21:07:02.1	84.3	41.9	1.2	30	5.4		
WERD	e	P	Z	21:07:02.5	84.5	43.2	1.2	19	5.2		
GUNZ	e	P	Z	21:07:03.2	84.5	43.2	1.0	24	5.4		
MOX	e	P	Z	21:07:03.5	84.7	42.7	1.4	30	5.3		
IBBN	e	P	Z	21:07:05.0	85.0	39.9	1.1	25	5.4		
GEC2	e	P	Z	21:07:05.0	85.0	44.1	1.0	19	5.3		
NOTT	e	P	Z	21:07:05.5	85.0	43.0	1.1	29	5.4		
GRA1	e	P	Z	21:07:07.9	85.5	42.3	1.0	55	5.6		
BUG	e	P	Z	21:07:09.4	85.9	39.5	1.0	23	5.3		
TNS	e	P	Z	21:07:12.1	86.3	40.3	1.0	11	4.9		
FUR	e	P	Z	21:07:13.6	86.6	42.3	1.1	38	5.4		
STU	e	P	Z	21:07:15.1	87.1	40.8	0.8	17	5.2		
BFO	e	P	Z	21:07:18.7	87.8	40.2	2.0	60	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:59:50.3			1.4	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	03:32:35.0	16.206N	144.717E	33.0N		5.1		gsrc-m

Mariana Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SP	Z	03:59:52.2	102.4	45.5					
	e L	Z	04:33:40.9			21.6	641		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	04:55:17.5	5.500S	102.500E	33.0N	5.2			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:08:30.3	93.3	94.5	1.0	8	5.1		
BRG	e P	Z	05:08:30.2	93.4	94.6	0.9	10	5.3		
RUE	e P	Z	05:08:31.6	93.6	94.4	0.7	12	5.3		
CLL	e P	Z	05:08:32.6	94.0	93.8	1.1	8	5.0		
GUNZ	e P	Z	05:08:35.1	94.3	93.4	1.0	9	5.1		
WERD	e P	Z	05:08:34.8	94.4	93.4	1.0	9	5.0		
NOTT	e P	Z	05:08:35.3	94.4	93.3	1.2	5	4.7		
MOX	e P	Z	05:08:37.2	94.8	92.8	1.2	8	5.0		
FUR	e P	Z	05:08:37.6	94.9	92.8	1.0	13	5.3		
GRA1	e P	Z	05:08:38.2	95.0	92.6	0.9	12	5.3		
CLZ	e P	Z	05:08:40.8	95.6	91.7	1.1	10	5.2		
BSEG	e P	Z	05:08:41.0	95.7	91.5	1.2	18	5.5		
NRDL	e P	Z	05:08:41.6	95.8	91.5	1.0	7	5.1		
STU	e P	Z	05:08:43.4	96.3	91.2	1.2	8	5.2		
TNS	e P	Z	05:08:46.4	96.8	90.4	1.0	11	5.4		
BFO	e P	Z	05:08:46.1	96.9	90.6	1.8	22	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	07:35:44.5	17.776N	96.785W	33.0N	5.0			SZGRF

Oaxaca, Mexico

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

GRA1	e P	Z	07:48:29.6	87.6	295.0	1.3	9	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	08:34:13.0	51.520N	178.892E	33.0N	4.1			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:46:09.9	78.2	7.8	0.8	2	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	08:40:41.2	50.130N	178.960E	33.0N	4.9			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	08:52:24.8	75.5	7.5	1.1	22	5.2		
NRDL	e P	Z	08:52:32.6	76.9	7.3	1.2	21	5.1		
IBBN	e P	Z	08:52:35.0	77.3	5.8	1.2	65	5.6		
CLZ	e P	Z	08:52:36.7	77.6	7.5	1.3	28	5.2		
CLL	e P	Z	08:52:37.8	77.9	9.2	1.9	23	5.0		
BUG	e P	Z	08:52:39.5	78.2	5.4	1.4	24	5.0		
BRG	e P	Z	08:52:39.7	78.2	9.7	1.2	9	4.7		
MOX	e P	Z	08:52:42.4	78.6	8.2	1.2	10	4.7		
WERD	e P	Z	08:52:43.0	78.8	8.7	1.2	7	4.6		
GUNZ	e P	Z	08:52:43.3	78.9	8.7	1.2	9	4.6		
TNS	e P	Z	08:52:46.3	79.3	6.2	0.5	6	4.7		
NOTT	e P	Z	08:52:46.7	79.4	8.5	1.3	9	4.5		
GRA1	e P	Z	08:52:48.2	79.6	8.0	1.3	21	4.9		
GEC2	e P	Z	08:52:50.9	80.2	9.5	1.5	12	4.7		
STU	e P	Z	08:52:53.1	80.7	6.6	0.8	8	4.8		
BFO	e P	Z	08:52:56.2	81.2	6.1	1.7	24	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	08:55:15.6	37.551N	23.488E	33.0N	4.7			SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	08:58:27.4	13.3	144.2					
FUR	e P	Z	08:58:37.0	13.8	135.5					
NOTT	e P	Z	08:58:47.1	14.7	142.1					
BRG	e P	Z	08:58:50.1	14.9	149.4					
GRA1	e P	Z	08:58:50.7	15.0	139.4					
	e		08:58:57.7							
GUNZ	e P	Z	08:58:51.7	15.1	143.9					

WERD	e P	Z	08:58:52.7	15.2	144.0			
STU	e P	Z	08:58:54.0	15.3	132.0			
BFO	e P	Z	08:58:55.4	15.4	128.8			
MOX	e P	Z	08:58:59.2	15.6	142.6			
CLL	e P	Z	08:58:59.3	15.6	147.6	0.9	92	4.9
RUE	e P	Z	08:59:09.3	16.4	151.7	0.7	85	5.0
TNS	e P	Z	08:59:12.4	16.6	134.0	1.7	162	4.9
CLZ	e P	Z	08:59:17.2	17.0	142.0	1.1	69	4.7
WLF	e P	Z	08:59:22.5	17.4	127.7	1.0	68	4.7
NRDL	e P	Z	08:59:25.6	17.6	142.7	1.0	21	4.2
BUG	e P	Z	08:59:29.6	18.0	134.2	0.9	47	4.6
IBBN	e P	Z	08:59:34.8	18.4	137.1	1.2	57	4.6
BSEG	e P	Z	08:59:37.2	18.7	145.7	1.4	63	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	09:07:28.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	15:31:35.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	17:52:33.9	1.160S	78.440W	37.8	5.2			SZGRF

Ecuador

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	18:05:17.3	87.4	265.1	1.1	29	5.3		
TNS	e P	Z	18:05:24.0	88.9	266.9	1.4	18	5.1		
STU	e P	Z	18:05:25.8	89.3	267.5	1.2	17	5.1		
CLZ	e P	Z	18:05:30.3	90.2	268.3	1.3	21	5.2		
GRA1	e P	Z	18:05:32.6	90.7	269.0	1.1	18	5.3		
	e pP	Z	18:05:43.7							
MOX	e P	Z	18:05:33.6	90.9	269.3	1.4	12	5.0		
NOTT	e P	Z	18:05:35.5	91.2	269.7	1.4	19	5.2		
WERD	e P	Z	18:05:35.8	91.4	269.8	1.0	15	5.3		
GUNZ	e P	Z	18:05:36.4	91.4	269.9	1.2	20	5.3		
CLL	e P	Z	18:05:37.6	91.8	270.4	1.1	22	5.4		
BRG	e P	Z	18:05:40.5	92.4	271.1	1.1	20	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:46:35.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	21:46:21.0			N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:58:41.7			0.9	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	21:44:26.4	30.690S	177.080W	33.0N		5.8		SZGRF

Kermadec Islands, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPdf	Z	22:04:17.4	155.0	21.6					
	e PKPab	Z	22:04:40.9							
BSEG	e PKPdf	Z	22:04:19.1	156.2	15.9					
	e PKPab	Z	22:04:45.5							
HLG	e PKPab	Z	22:04:46.7	156.2	10.6					
RUE	e PKPdf	Z	22:04:20.3	156.8	24.3					
	e PKPab	Z	22:04:48.8							
NRDL	e PKPdf	Z	22:04:20.6	157.6	16.4					
	e PKPab	Z	22:04:50.8							
CLL	e PKPdf	Z	22:04:21.4	158.1	23.8	1.5	38			
	i PKPdif	Z	22:04:33.8			1.0	44			
	i PKPab	Z	22:04:52.5			1.0	160			
	i pPKPab	Z	22:04:56.0							
	i sPKPab	Z	22:05:00.7							
	i PP	Z	22:08:29.8							
	e PPP	Z	22:12:06.1							
	e PPPP	Z	22:14:18.7							
	i PPS	Z	22:21:46.9							
	i SS	E	22:28:32.6							
	i SSP	Z	22:29:23.3							
	e SSS	N	22:34:49.0							
	e SSSS	N	22:38:25.5							
	e L	Z	23:25:23.8			20.1	1748			
IBBN	e PKPdf	Z	22:04:21.7	158.1	11.2					

	e	PKPab	Z	22:04:53.1						
CLZ	e	PKPdf	Z	22:04:21.8	158.1	17.4				
	e	PKPab	Z	22:04:54.1						
BRG	e	PKPdf	Z	22:04:21.3	158.2	26.3				
	e	PKPab	Z	22:04:54.0						
BUG	e	PKPdf	Z	22:04:22.4	159.0	10.5				
	e	PKPab	Z	22:04:57.5						
MOX	e	PKPdf	Z	22:04:21.8	159.0	21.3				
	e	PKPab	Z	22:04:57.3						
WERD	e	PKPdf	Z	22:04:21.7	159.0	23.1				
	e	PKPab	Z	22:04:57.4						
GUNZ	e	PKPdf	Z	22:04:23.8	159.1	23.2				
	e	PKPab	Z	22:04:58.2						
NOTT	e	PKPdf	Z	22:04:22.9	159.7	23.3				
	e	PKPab	Z	22:05:00.4						
GRA1	e	PKPdf	Z	22:04:23.7	160.0	21.3				
	e	PKPab	Z	22:05:02.2						
	e	PP	Z	22:08:43.3						
	e	SS	T	22:28:58.6						
	e	SSS	R	22:35:29.7						
	e	L	Z	23:27:09.8			20.2	1381	5.8	
TNS	e	PKPdf	Z	22:04:23.7	160.0	14.0				
	e	PKPab	Z	22:05:01.6						
GEC2	e	PKPdf	Z	22:04:23.4	160.1	28.2				
	e	PKPab	Z	22:05:02.3						
WLF	e	PKPdf	Z	22:04:25.0	160.9	8.5				
	e	PKPab	Z	22:05:06.3						
STU	e	PKPdf	Z	22:04:24.7	161.3	17.0				
	e	PKPab	Z	22:05:07.5						
FUR	e	PKPdf	Z	22:04:24.7	161.4	23.1				
	e	PKPab	Z	22:05:08.0						
BFO	e	PKPdf	Z	22:04:25.9	161.9	15.1				
	e	PKPab	Z	22:05:09.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/29	22:34:32.2	35.700N	141.660E	33.0N	4.9			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	P	Z 22:46:45.3	81.0	38.1	1.1	12	4.8		
BRG	e	P	Z 22:46:49.7	82.0	40.4	1.0	5	4.6		
CLL	e	P	Z 22:46:49.8	82.0	39.8	1.2	11	4.9		
CLZ	e	P	Z 22:46:53.4	82.7	38.0	1.1	13	5.1		
GUNZ	e	P	Z 22:46:55.4	83.0	39.3	1.0	6	4.7		
MOX	e	P	Z 22:46:55.2	83.1	38.8	1.2	4	4.6		
IBBN	e	P	Z 22:46:56.7	83.3	36.1	1.2	19	5.2		
NOTT	e	P	Z 22:46:58.0	83.6	39.1	1.2	6	4.7		

GEC2	e P	Z	22:46:59.1	83.6	40.1	1.1	5	4.6
GRA1	e P	Z	22:47:00.9	84.0	38.4	1.3	24	5.3
FUR	e P	Z	22:47:06.5	85.2	38.4	0.9	13	5.1
STU	e P	Z	22:47:08.3	85.6	36.9	1.0	15	5.1
BFO	e P	Z	22:47:11.0	86.2	36.3	0.9	7	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	03:30: 2.7	18.620S	178.550W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	03:49:37.1	145.5	14.6					
CLZ	e PKPbc	Z	03:49:38.8	146.0	15.3					
CLL	e PKPbc	Z	03:49:38.5	146.1	19.9					
BRG	e PKPbc	Z	03:49:39.8	146.3	21.7					
MOX	e PKPbc	Z	03:49:41.3	147.0	17.9					
WERD	e PKPbc	Z	03:49:41.7	147.0	19.1					
GUNZ	e PKPbc	Z	03:49:42.0	147.1	19.2					
NOTT	e PKPbc	Z	03:49:43.7	147.7	19.1					
TNS	e PKPbc	Z	03:49:44.4	147.9	12.5					
GRA1	e PKPbc	Z	03:49:44.5	148.0	17.6					
GEC2	e PKPbc	Z	03:49:44.9	148.2	22.4					
WLF	e PKPbc	Z	03:49:46.5	148.7	8.6					
STU	e PKPbc	Z	03:49:47.8	149.2	14.4					
FUR	e PKPbc	Z	03:49:48.6	149.4	18.5					
BFO	e PKPbc	Z	03:49:49.0	149.8	13.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	09:19:56.8	33.950N	26.780E	33.0N	4.4			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	09:24:06.2	17.8	142.1	0.6	7	3.9		
NOTT	e P	Z	09:24:21.3	19.2	140.3	0.6	8	4.1		
BRG	e P	Z	09:24:24.8	19.3	146.2	0.7	10	4.1		
GRA1	e P	Z	09:24:24.8	19.5	138.1	1.2	43	4.6		
GUNZ	e P	Z	09:24:25.7	19.5	141.7	0.8	23	4.4		
WERD	e P	Z	09:24:26.6	19.6	141.8	0.8	18	4.3		
BFO	e P	Z	09:24:30.0	19.9	129.5	0.9	22	4.4		
CLL	i P	Z	09:24:31.2	20.0	144.8	0.7	12			
	e S	E	09:28:13.0							
	e L	Z	09:34:03.6			15.9	545			
MOX	e P	Z	09:24:30.9	20.0	140.7	1.2	24	4.3		
TNS	e P	Z	09:24:43.4	21.1	133.5	1.0	32	4.6		
CLZ	e P	Z	09:24:46.2	21.4	140.1	1.3	20	4.3		

WLF	e P	Z	09:24:51.3	21.8	128.2	0.9	45	4.9
NRDL	e P	Z	09:24:52.3	22.1	140.7	1.4	31	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	10:05: 0.0	51.672S	127.466W	33.0N				gfz-a

South Pacific Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPab	Z	10:24:50.0	151.0	248.0					
BFO	e PKPab	Z	10:24:52.4	151.8	246.3					
BUG	e PKPab	Z	10:24:55.5	152.3	251.5					
STU	e PKPab	Z	10:24:55.6	152.5	247.3					
TNS	e PKPab	Z	10:24:56.5	152.6	249.7					
IBBN	e PKPab	Z	10:24:58.2	152.9	253.3					
GRA1	e PKPab	Z	10:25:03.4	154.1	249.6					
CLZ	e PKPab	Z	10:25:04.3	154.3	253.5					
NRDL	e PKPab	Z	10:25:04.4	154.3	254.7					
MOX	e PKPab	Z	10:25:05.6	154.7	251.6					
NOTT	e PKPab	Z	10:25:05.4	154.7	250.1					
BSEG	e PKPab	Z	10:25:06.6	154.8	257.7					
GUNZ	e PKPab	Z	10:25:07.5	155.0	251.3					
WERD	e PKPab	Z	10:25:07.2	155.0	251.4					
GEC2	e PKPab	Z	10:25:06.9	155.3	248.6					
CLL	e PKPab	Z	10:25:10.1	155.7	253.5					
BRG	e PKPab	Z	10:25:12.0	156.1	252.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	11:13:52.4	14.024N	90.615W	33.0N	4.7			SZGRF

Guatemala

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:26:33.7	86.8	288.0	1.4	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	11:18: 8.0	31.240N	140.610E	59.8	5.0			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:30:36.2	84.6	40.9	1.1	23	4.8		
	e pPP	Z	11:34:08.3							
BRG	e P	Z	11:30:40.1	85.4	43.5	1.0	19	4.8		
	e PP	Z	11:33:59.9							
	e pPP	Z	11:34:13.9							

CLL	e P	Z	11:30:40.2	85.5	42.8	0.9	37	5.1
	e PP	Z	11:34:00.1					
	e pPP	Z	11:34:14.9					
NRDL	e P	Z	11:30:41.9	85.8	40.7	1.9	65	5.0
	e PP	Z	11:34:03.0					
CLZ	e P	Z	11:30:44.4	86.2	40.9	1.2	34	5.0
	e PP	Z	11:34:05.8					
	e pPP	Z	11:34:20.5					
WERD	e P	Z	11:30:45.2	86.4	42.2	2.0	43	5.0
	e PP	Z	11:34:07.4					
	e pPP	Z	11:34:21.9					
GUNZ	e P	Z	11:30:45.6	86.5	42.3	0.9	14	4.9
	e PP	Z	11:34:08.1					
MOX	e P	Z	11:30:45.9	86.6	41.7	1.8	41	5.1
	e PP	Z	11:34:08.4					
	e pPP	Z	11:34:23.1					
IBBN	e P	Z	11:30:48.2	86.9	38.9	0.9	37	5.3
NOTT	e P	Z	11:30:48.3	87.0	42.1	2.0	64	5.2
	e PP	Z	11:34:12.6					
	e pPP	Z	11:34:26.4					
GEC2	e P	Z	11:30:48.5	87.0	43.2	1.8	21	4.8
	e PP	Z	11:34:12.5					
	e pPP	Z	11:34:27.5					
GRA1	e P	Z	11:30:50.8	87.4	41.4	1.0	24	5.2
	e pP	Z	11:31:07.5					
	e PP	Z	11:34:16.5					
BUG	e P	Z	11:30:50.9	87.7	38.5	0.7	13	5.0
TNS	e P	Z	11:30:53.9	88.2	39.4			
	e PP	Z	11:34:23.0					
WLF	e P	Z	11:31:00.6	89.6	37.6	1.4	24	5.1
BFO	e P	Z	11:31:00.6	89.7	39.2	0.9	8	4.8
	e PP	Z	11:34:34.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	13:34:10.1	1.219N	98.701E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:46:54.6	87.4	91.1	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	18:27:35.3	22.860S	178.300W	50.0N				SZGRF

South of Fiji Islands

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

BSEG	e PKPbc	Z	18:47:15.4	148.3	15.2
NRDL	e PKPbc	Z	18:47:18.9	149.7	15.5
CLL	e PKPbc	Z	18:47:20.6	150.2	21.3
CLZ	e PKPbc	Z	18:47:21.0	150.3	16.3
BRG	e PKPbc	Z	18:47:21.2	150.4	23.3
MOX	e PKPbc	Z	18:47:22.8	151.2	19.2
WERD	e PKPbc	Z	18:47:23.0	151.2	20.6
NOTT	e PKPbc	Z	18:47:24.5	151.8	20.7
TNS	e PKPbc	Z	18:47:25.4	152.1	13.4
GRA1	e PKPbc	Z	18:47:24.9	152.1	19.0
GEC2	e PKPbc	Z	18:47:25.7	152.3	24.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/30	19:23: 5.1	1.216N	96.566E	33.0N	4.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:35:42.8	86.1	92.8	0.9	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	00:01:50.5	3.159N	95.143E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:14:16.2	83.7	92.6	1.2	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	00:33:32.8	10.602N	94.409E	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	00:45:25.8	77.5	88.2	1.1	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	02:04: 8.4	30.950N	132.800E	33.0N	5.7	6.3		SZGRF

Southeast of Shikoku, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	02:16:22.0	81.1	49.4	1.0	58	5.5		
BSEG	e P	Z	02:16:24.9	81.7	47.0	1.4	58	5.4		
	e PP	Z	02:19:32.9							

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P		Z	02:16:27.0	82.1	49.3	0.8	21	5.2		
	e PP		Z	02:19:36.3							
CLL	i P	-	Z	02:16:28.8	82.2	48.7	0.8	47			
	i PP		Z	02:19:35.5							
	i PPPP		Z	02:23:01.0							
	i S		E	02:26:35.0							
	i ScS		E	02:26:55.7							
	i PS		N	02:27:26.0							
	i PPS		N	02:27:49.6							
	e SS		E	02:32:13.5							
	e L		Z	02:55:59.8			17.8	14781			
NRDL	e P		Z	02:16:30.7	82.8	46.7	1.9	106	5.7		
CLZ	e P		Z	02:16:32.7	83.1	46.8	1.4	91	5.7		
	e PP		Z	02:19:43.9							
WERD	e P		Z	02:16:32.7	83.1	48.1	1.7	73	5.5		
	e PP		Z	02:19:44.5							
GUNZ	e P		Z	02:16:33.1	83.2	48.1	1.1	38	5.5		
MOX	e P		Z	02:16:33.9	83.3	47.6	1.2	38	5.4		
	e PP		Z	02:19:46.2							
GEC2	e P		Z	02:16:34.6	83.5	49.0	1.0	15	5.1		
NOTT	e P		Z	02:16:35.8	83.7	47.9	1.9	139	5.9		
	e PP		Z	02:19:48.8							
IBBN	e P		Z	02:16:36.5	83.9	44.9	1.3	79	5.8		
GRA1	e P		Z	02:16:38.6	84.2	47.3	1.8	261	6.2		
	e PP		Z	02:19:51.1							
	e S		E	02:27:02.1							
	e L		Z	02:57:55.8			19.4	12301		6.3	
BUG	e P		Z	02:16:40.6	84.8	44.5	1.5	90	5.8		
	e PP		Z	02:19:58.7							
TNS	e P		Z	02:16:42.9	85.1	45.3	1.2	45	5.6		
	e PP		Z	02:20:00.6							
FUR	e P		Z	02:16:43.5	85.2	47.2	2.2	388	6.3		
STU	e P		Z	02:16:46.0	85.8	45.7	0.8	32	5.6		
	e PP		Z	02:20:06.6							
BFO	e P		Z	02:16:49.5	86.5	45.1	1.7	116	5.8		
	e PP		Z	02:20:11.6							
WLF	e P		Z	02:16:50.2	86.5	43.6	1.5	128	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	02:29:34.2	5.310N	94.390E	47.9	5.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P		Z	02:41:38.0	79.9	94.1	1.6	87	5.4		
GEC2	e P		Z	02:41:38.3	79.9	93.5	1.4	136	5.7		
RUE	e P		Z	02:41:38.9	80.1	94.2	0.8	78	5.7		
CLL	i P	-	Z	02:41:40.8	80.5	93.4	1.2	36	5.3		

	i pP	Z	02:41:50.9					
	e sP	Z	02:41:54.5					
	e PP	Z	02:44:58.0					
GUNZ	e P	Z	02:41:43.3	80.8	92.7	1.5	58	5.4
WERD	e P	Z	02:41:43.3	80.9	92.7	1.5	47	5.3
NOTT	e P	Z	02:41:44.2	81.0	92.5	1.1	23	5.1
MOX	e P	Z	02:41:45.7	81.3	92.2	1.6	55	5.3
FUR	e P	Z	02:41:46.2	81.5	91.6	1.9	127	5.7
GRA1	e P	Z	02:41:47.3	81.5	91.8	1.4	109	5.8
	e pP	Z	02:42:01.2					
	e sP	Z	02:42:06.1					
CLZ	e P	Z	02:41:49.9	82.1	91.4	1.4	64	5.6
BSEG	e P	Z	02:41:50.4	82.2	91.7	1.3	82	5.7
NRDL	e P	Z	02:41:51.2	82.3	91.3	1.4	61	5.5
STU	e P	Z	02:41:53.5	82.8	90.1	0.4	19	5.7
TNS	e P	Z	02:41:56.3	83.3	89.7	1.4	51	5.6
BFO	e P	Z	02:41:56.2	83.4	89.4	0.8	22	5.4
IBBN	e P	Z	02:41:58.4	83.7	89.4	1.5	92	5.8
BUG	e P	Z	02:41:59.9	84.1	88.9	1.4	70	5.7
WLF	e P	Z	02:42:04.2	84.8	87.9	1.5	71	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	07:07:59.8	63.150N	24.643W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:13:07.2	23.5	318.4	1.0	7	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	07:28: 4.7	4.900N	94.400E	59.4	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:40:08.5	80.2	94.3	0.9	9	4.7		
GEC2	e P	Z	07:40:08.7	80.2	93.8	0.9	18	5.0		
RUE	e P	Z	07:40:09.8	80.4	94.5	0.6	17	5.1		
CLL	e P	Z	07:40:11.8	80.8	93.7	0.3	7	5.1		
GUNZ	e P	Z	07:40:14.3	81.2	93.0	0.3	6	5.1		
WERD	e P	Z	07:40:13.8	81.2	93.0	1.2	10	4.7		
NOTT	e P	Z	07:40:14.6	81.3	92.7	1.0	6	4.6		
MOX	e P	Z	07:40:16.2	81.6	92.5	1.3	8	4.7		
FUR	e P	Z	07:40:17.2	81.8	91.8	0.5	17	5.5		
GRA1	e P	Z	07:40:17.6	81.9	92.0	1.0	13	5.0		
	e PcP	Z	07:40:22.7							
	e pP	Z	07:40:34.1							

CLZ	e P	Z	07:40:20.8	82.5	91.7	2.1	35	5.1
BSEG	e P	Z	07:40:21.2	82.6	91.9	1.1	24	5.3
TNS	e P	Z	07:40:27.0	83.6	90.0	0.8	6	4.9
BFO	e P	Z	07:40:27.2	83.7	89.7	0.8	5	4.8
IBBN	e P	Z	07:40:29.3	84.1	89.7	0.7	10	5.2
WLF	e P	Z	07:40:34.7	85.1	88.2	0.6	12	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	09:06:54.8	63.002S	155.224E	10.0G		5.3		NEIC-M

Balleny Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPab	Z	09:27:20.6	156.9	134.9					
	e PP	Z	09:31:01.1							
	i PPP	Z	09:34:32.3							
	e PPS	Z	09:44:24.3							
	e SS	N	09:50:57.6							
	e SSP	Z	09:52:31.2							
	e SSSS	N	10:01:15.9							
	e L	Z	10:46:04.3			18.0	762			
GRA1	e SS	E	09:50:26.3	156.5	138.0					
	e L	Z	10:45:01.9			20.6	480		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/05/31	16:11: 9.9	71.237N	8.681W	33.0N	4.2			SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:16:16.4	23.4	344.0	1.1	8	4.2		

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

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

EPICENTER LINES:

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

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

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 Flag for the direction of the first motion '+' - compression '-' - dilatation 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