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)

JUNE 2005 UPDATED 8.DECEMBER.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
2005/06/01	02:41:17.6	6.985S	155.538E	33.0N				GSRC-M

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	03:00:18.9	125.3	43.9					
BRG	e PKPdf	Z	03:00:18.1	125.8	49.5					
CLL	e PKPdf	Z	03:00:17.8	126.0	48.2					
NRDL	e PKPdf	Z	03:00:19.8	126.4	44.4					
CLZ	e PKPdf	Z	03:00:20.0	126.8	45.1					
WERD	e PKPdf	Z	03:00:19.9	126.9	48.0					
GUNZ	e PKPdf	Z	03:00:20.3	126.9	48.0					
MOX	e PKPdf	Z	03:00:20.3	127.1	47.1					
GEC2	e PKPdf	Z	03:00:20.1	127.2	50.4					
NOTT	e PKPdf	Z	03:00:21.0	127.4	48.1					
IBBN	e PKPdf	Z	03:00:21.7	127.6	41.9					
GRA1	e PKPdf	Z	03:00:21.2	127.9	47.2					
TNS	e PKPdf	Z	03:00:23.7	128.8	43.8					
WLF	e PKPdf	Z	03:00:27.0	130.2	41.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	04:12:43.0	36.130N	89.000E	33.0N	4.8			SZGRF

Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:22:04.7	53.9	74.9	1.1	10	4.7		
CLL	e P	Z	04:22:07.6	54.4	74.6	1.0	8	4.7		
GEC2	e P	Z	04:22:10.0	54.6	73.3	1.1	11	4.8		
WERD	e P	Z	04:22:12.6	55.0	73.5	1.1	6	4.6		

GUNZ	e P	Z	04:22:13.0	55.0	73.5	0.4	4	4.7
MOX	e P	Z	04:22:15.4	55.4	73.2	1.3	8	4.6
NRDL	e P	Z	04:22:18.0	55.8	73.4	1.0	11	4.8
CLZ	e P	Z	04:22:18.4	55.8	73.2	1.1	10	4.8
GRA1	e P	Z	04:22:19.0	55.9	72.4	1.0	16	5.0
FUR	e P	Z	04:22:22.6	56.4	71.4	0.5	30	5.6
TNS	e P	Z	04:22:29.6	57.5	70.9	0.8	4	4.5
STU	e P	Z	04:22:29.7	57.5	70.5	0.4	7	5.1
BFO	e P	Z	04:22:34.4	58.2	69.7	1.2	13	4.8
WLF	e P	Z	04:22:41.7	59.0	69.2	1.6	17	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	09:41:38.0	15.600S	167.200E	24.0N				NEIR-M

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	10:01:09.5	140.7	38.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	13:57: 8.2	33.501S	179.389E	400.0G				GSRC-M

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	14:16:51.5	158.2	25.1					
CLL	e PKPab	Z	14:16:58.2	159.6	34.3					
BRG	e PKPab	Z	14:16:58.9	159.6	37.0					
CLZ	e PKPdf	Z	14:16:19.5	160.0	27.7					
	e PKPab	Z	14:16:59.9							
WERD	e PKPab	Z	14:17:03.3	160.6	34.1					
GUNZ	e PKPab	Z	14:17:03.4	160.6	34.3					
MOX	e PKPab	Z	14:17:03.0	160.7	32.2					
NOTT	e PKPab	Z	14:17:05.5	161.2	34.7					
GEC2	e PKPdf	Z	14:16:21.0	161.3	40.1					
	e PKPab	Z	14:17:06.8							
GRA1	e PKPdf	Z	14:16:21.6	161.6	32.8					
	e PKPab	Z	14:17:07.8							
TNS	e PKPab	Z	14:17:09.6	162.0	25.1					
WLF	e PKPab	Z	14:17:13.6	163.1	19.7					
BFO	e PKPab	Z	14:17:15.6	163.7	27.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	15:07:13.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	16:20: 2.5	23.420N	120.810E	57.0	5.3	4.7		SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:32:17.0	81.9	62.5	0.8	9	5.0		
CLL	i P	- Z	16:32:19.0	82.3	61.8					
	i PcP	Z	16:32:25.8			0.7	15			
	e pP	Z	16:32:35.5							
	e PP	Z	16:35:28.3							
	e S	E	16:42:26.1							
	e sS	N	16:42:58.5							
	e LR	Z	16:53:18.6							
	e L	Z	17:13:38.0			19.2	486			
BSEG	e P	Z	16:32:20.3	82.4	60.1	1.1	18	5.2		
GEC2	e P	Z	16:32:22.9	83.0	62.1	1.0	18	5.2		
WERD	e P	Z	16:32:22.7	83.0	61.2	0.9	6	4.8		
GUNZ	e P	Z	16:32:23.2	83.1	61.2	1.7	35	5.3		
NRDL	e P	Z	16:32:23.7	83.2	59.8	1.4	13	5.0		
MOX	e P	Z	16:32:24.5	83.3	60.8	1.5	12	4.9		
CLZ	e P	Z	16:32:24.6	83.4	59.9					
NOTT	e P	Z	16:32:25.6	83.5	61.0	1.4	18	5.1		
GRA1	e P	Z	16:32:28.4	84.0	60.4	1.4	42	5.5		
	e pP	Z	16:32:44.6							
	e PP	Z	16:35:42.3							
	e S	E	16:42:47.4							
	e L	Z	17:14:22.6			21.1	334		4.7	
FUR	e P	Z	16:32:32.5	84.8	60.3	0.9	54	5.8		
BUG	e P	Z	16:32:33.5	85.3	57.6	1.1	25	5.3		
	e PP	Z	16:35:53.1							
TNS	e P	Z	16:32:34.1	85.3	58.4	11.6	5619	6.6		
BFO	e P	Z	16:32:38.3	86.4	58.2					
WLF	e P	Z	16:32:42.2	86.8	56.6	1.0	36	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	17:11:21.6	34.070S	179.710W	45.5				SZGRF

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z	17:31:16.6	159.2	33.0					
CLL	e PKPab	Z	17:31:56.5	160.5	33.0					
	e pPKPab	Z	17:32:10.4							

BRG	e	PKPdf	Z	17:31:18.1	160.5	35.8
	e	PKPab	Z	17:31:57.1		
	e	pPKPab	Z	17:32:11.0		
CLZ	e	PKPab	Z	17:31:58.3	160.8	26.2
	e	pPKPab	Z	17:32:12.3		
WERD	e	PKPab	Z	17:32:01.5	161.4	32.8
	e	pPKPab	Z	17:32:14.8		
GUNZ	e	PKPdf	Z	17:31:19.3	161.5	33.0
	e	PKPab	Z	17:32:01.7		
	e	pPKPab	Z	17:32:15.4		
MOX	e	PKPab	Z	17:32:01.5	161.5	30.8
	e	pPKPab	Z	17:32:15.0		
NOTT	e	PKPdf	Z	17:31:20.1	162.0	33.4
	e	PKPab	Z	17:32:04.7		
	e	pPKPab	Z	17:32:17.7		
GEC2	e	PKPdf	Z	17:31:19.5	162.2	38.9
	e	PKPab	Z	17:32:04.4		
GRA1	e	PKPdf	Z	17:31:18.9	162.4	31.4
	e	PKPab	Z	17:32:06.5		
	e	pPKPab	Z	17:32:19.2		
WLF	e	PKPdf	Z	17:31:20.6	163.8	17.7
BFO	e	PKPab	Z	17:32:14.2	164.5	25.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	20:06:39.1	28.370N	94.880E	33.0G	6.4	5.7		SZGRF

Eastern Xizang-India border region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e	P	Z	20:17:00.7	62.5	78.9	1.0	340	6.4		
RUE	e	P	Z	20:17:01.1	62.6	78.2	1.4	437	6.4		
BRG	e	P	Z	20:17:02.8	62.9	77.5	1.1	222	6.2		
CLL	i	P	+ Z	20:17:05.7	63.0	76.9	1.1	161	6.2		
	e	pP	Z	20:17:14.9							
	e	PP	Z	20:19:18.2							
	e	PPP	Z	20:20:59.1							
	e	S	N	20:25:33.7							
	e			20:26:57.9							
	e	SS	N	20:29:38.0							
	e	SSS	N	20:32:43.3							
	e	LR	Z	20:37:41.2							
	e	L	Z	20:48:08.2			15.9	5022			
GEC2	e	P	Z	20:17:07.2	63.5	76.4	1.3	287	6.3		
	e	PP	Z	20:19:27.9							
WERD	e	P	Z	20:17:10.2	64.0	76.2	1.1	192	6.2		
GUNZ	e	P	Z	20:17:10.4	64.0	76.1	1.2	270	6.4		
NOTT	e	P	Z	20:17:12.5	64.2	75.7	1.0	299	6.5		
BSEG	e	P	Z	20:17:13.1	64.3	76.4	1.0	376	6.6		

MOX	e P	Z	20:17:12.7	64.4	75.8	1.3	225	6.2	
GRB3	e PP	Z	20:19:37.0	64.6	75.3				
NRDL	e P	Z	20:17:16.2	64.8	75.6	1.1	441	6.6	
CLZ	e P	Z	20:17:16.0	64.8	75.4	1.0	434	6.6	
GRA1	e P	Z	20:17:16.5	64.8	75.1	1.1	346	6.5	
	e PcP	Z	20:17:50.6						
	e PP	Z	20:19:37.1						
	e S	T	20:25:53.6						
	e ScS	R	20:27:09.8						
	e SS	T	20:30:07.0						
	e SSS	T	20:33:21.5						
	e L	Z	20:48:07.0			20.3	5188		5.7
FUR	e P	Z	20:17:18.7	65.2	74.4	1.0	592	6.8	
HLG	e P	Z	20:17:21.5	65.7	74.7	1.3	456	6.5	
IBBN	e P	Z	20:17:25.1	66.2	73.8	1.3	306	6.4	
STU	e P	Z	20:17:26.0	66.4	73.3	1.1	383	6.5	
	e PP	Z	20:19:52.9						
TNS	e P	Z	20:17:26.2	66.4	73.4	1.0	219	6.3	
BUG	e P	Z	20:17:28.6	66.8	73.1	1.1	238	6.3	
BFO	e P	Z	20:17:30.0	67.0	72.5	1.5	227	6.2	
	e PP	Z	20:19:57.5						
WLF	e P	Z	20:17:37.0	68.0	71.6	1.0	576	6.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	21:55: 8.4	17.120N	46.110W	24.6	5.0			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	22:04:22.4	52.9	251.3	1.2	16	4.8		
BFO	e P	Z	22:04:29.7	53.9	254.2	1.2	17	5.0		
BUG	e P	Z	22:04:31.5	54.2	251.1	1.2	29	5.2		
TNS	e P	Z	22:04:34.3	54.5	253.0	0.9	18	5.1		
STU	e P	Z	22:04:34.1	54.6	254.7	1.2	21	5.0		
IBBN	e P	Z	22:04:35.6	54.7	251.0	0.5	21	5.4		
FUR	e P	Z	22:04:43.5	55.7	256.9	1.1	22	5.1		
GRA1	e P	Z	22:04:45.4	56.1	255.8	1.1	16	5.0		
	e pP	Z	22:04:52.2							
CLZ	e P	Z	22:04:45.7	56.1	253.7	1.1	16	4.9		
NRDL	e P	Z	22:04:46.3	56.1	253.0	1.1	19	5.0		
MOX	e P	Z	22:04:49.0	56.5	255.6	1.4	18	4.9		
NOTT	e P	Z	22:04:49.6	56.7	256.5	1.5	14	4.8		
BSEG	e P	Z	22:04:49.8	56.7	252.3	1.2	19	5.0		
GUNZ	e P	Z	22:04:51.9	56.9	256.4	1.3	16	4.9		
WERD	e P	Z	22:04:51.8	56.9	256.3	1.6	26	5.0		
GEC2	e P	Z	22:04:55.1	57.5	258.5	1.3	13	4.8		
CLL	e P	Z	22:04:55.9	57.6	256.4	1.1	17	5.0		
BRG	e P	Z	22:04:59.5	58.0	257.5	1.1	10	4.8		

	RUE	e P	Z	22:05:01.2	58.3	256.3	0.5	25	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/01	21:58:37.6	15.848N	46.401W	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	22:08:21.9	57.2	255.1	1.1	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/02	02:11:13.7	20.710S	179.230W	39.4		5.1		SZGRF

Fiji Islands region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e pPKP	Z	02:31:02.1	146.0	16.1					
	RUE	e PKPdf	Z	02:30:50.4	146.7	22.5					
		e pPKP	Z	02:31:03.7							
	NRDL	e PKPdf	Z	02:30:52.3	147.4	16.4					
		e pPKP	Z	02:31:06.5							
	CLL	e PKPdf	Z	02:30:53.2	147.9	21.9					
		i PKPbc	+ Z	02:30:55.5			0.9	472			
		i PKPab	Z	02:30:57.8			1.0	333			
	IBBN	e PKPdf	Z	02:30:53.6	147.9	12.4					
	CLZ	e PKPdf	Z	02:30:53.3	148.0	17.1					
		e pPKPbc	Z	02:31:08.2							
	BRG	e PKPdf	Z	02:30:53.1	148.1	23.8					
		e pPKPbc	Z	02:31:08.2							
		e pPKPab	Z	02:31:10.3							
	BUG	e PKPdf	Z	02:30:55.1	148.9	11.8					
		e pPKPbc	Z	02:31:10.4							
	MOX	e PKPdf	Z	02:30:54.0	148.9	19.9					
		e PKPbc	Z	02:30:58.2							
		e pPKPbc	Z	02:31:10.4							
		e pPKPab	Z	02:31:13.2							
	WERD	e PKPdf	Z	02:30:54.3	148.9	21.2					
		e PKPbc	Z	02:30:58.4							
		e pPKPbc	Z	02:31:10.4							
	GUNZ	e PKPdf	Z	02:30:54.9	149.0	21.3					
		e PKPbc	Z	02:30:58.6							
		e PKPab	Z	02:31:02.6							
		e pPKPbc	Z	02:31:10.5							
		e pPKPab	Z	02:31:13.9							
	NOTT	e PKPdf	Z	02:30:55.3	149.5	21.3					
		e PKPbc	Z	02:31:00.0							
		e PKPab	Z	02:31:04.4							

	e pPKPbc	Z	02:31:11.9						
	e pPKPab	Z	02:31:16.1						
GRA1	e PKPdf	Z	02:30:56.5	149.9	19.7				
	e PKPbc	Z	02:31:01.1						
	e PKPab	Z	02:31:06.3						
	e pPKPbc	Z	02:31:12.8						
	e pPKPab	Z	02:31:18.2						
	e L	Z	03:41:51.2			20.3	343	5.1	
TNS	e PKPdf	Z	02:30:56.3	149.9	14.4				
	e PKPbc	Z	02:31:01.1						
	e PKPab	Z	02:31:06.1						
	e pPKPbc	Z	02:31:13.5						
	e pPKPab	Z	02:31:17.4						
GEC2	e PKPdf	Z	02:30:55.6	150.0	24.8				
	e PKPbc	Z	02:31:00.9						
	e PKPab	Z	02:31:06.5						
	e pPKPbc	Z	02:31:13.1						
WLF	e PKPdf	Z	02:30:58.3	150.7	10.3				
	e PKPbc	Z	02:31:03.9						
	e PKPab	Z	02:31:10.2						
	e pPKPbc	Z	02:31:15.9						
	e pPKPab	Z	02:31:22.2						
STU	e PKPdf	Z	02:30:58.9	151.1	16.5				
	e PKPbc	Z	02:31:04.0						
	e PKPab	Z	02:31:11.3						
	e pPKPbc	Z	02:31:16.0						
	e pPKPab	Z	02:31:22.4						
FUR	e PKPdf	Z	02:30:59.1	151.3	20.8				
	e PKPbc	Z	02:31:04.1						
	e PKPab	Z	02:31:11.9						
	e pPKPab	Z	02:31:22.9						
BFO	e PKPdf	Z	02:30:59.0	151.7	15.1				
	e PKPbc	Z	02:31:05.2						
	e PKPab	Z	02:31:13.4						
	e pPKPbc	Z	02:31:17.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/02	10:56:13.0	23.590S	65.590W	196.6				SZGRF

Jujuy Province, Argentina

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z	11:09:15.7	96.8	241.2					
	e pPdiff	Z	11:10:04.1							
	e SKSac	R	11:19:37.7							
	e SP	Z	11:21:50.1							
BFO	e Pdiff	Z	11:09:17.7	97.5	242.6					
	e pPdiff	Z	11:10:06.6							

	e SKSac	R	11:19:41.2		
	e SP	Z	11:21:53.1		
STU	e Pdiff	Z	11:09:21.3	98.2	243.3
	e pPdiff	Z	11:10:10.2		
	e SKSac	R	11:19:43.9		
	e SP	Z	11:22:00.8		
BUG	e Pdiff	Z	11:09:21.7	98.3	242.3
	e pPdiff	Z	11:10:09.6		
	e SKSac	R	11:19:44.8		
	e SP	Z	11:22:02.6		
TNS	e Pdiff	Z	11:09:21.4	98.4	243.0
	e pPdiff	Z	11:10:11.2		
	e SKSac	R	11:19:46.9		
	e SP	Z	11:22:04.4		
IBBN	e Pdiff	Z	11:09:24.3	99.0	242.7
	e pPdiff	Z	11:10:13.9		
	e SKSac	R	11:19:49.3		
	e SP	Z	11:22:10.4		
FUR	e Pdiff	Z	11:09:26.1	99.2	244.7
	e pPdiff	Z	11:10:15.0		
	e SKSac	R	11:19:49.7		
	e SP	Z	11:22:11.6		
GRA1	e Pdiff	Z	11:09:28.8	99.8	244.9
	e pPdiff	Z	11:10:18.1		
	e SKSac	R	11:19:54.2		
	e Sdiff	T	11:20:52.5		
	e SP	Z	11:22:18.3		
	e SS	T	11:27:50.4		
HLG	e SKSac	R	11:19:54.1	99.9	243.1
	e SP	Z	11:22:18.4		
CLZ	e Pdiff	Z	11:09:30.3	100.2	244.6
	e pPdiff	Z	11:10:18.8		
	e SKSac	R	11:19:56.3		
	e SP	Z	11:22:23.0		
NRDL	e Pdiff	Z	11:09:31.4	100.3	244.5
	e pPdiff	Z	11:10:20.2		
	e SKSac	R	11:19:55.4		
	e SP	Z	11:22:24.4		
NOTT	e Pdiff	Z	11:09:31.6	100.4	245.5
	e pPdiff	Z	11:10:20.1		
	e SKSac	R	11:19:54.7		
	e SP	Z	11:22:24.6		
MOX	e Pdiff	Z	11:09:31.6	100.4	245.3
	e pPdiff	Z	11:10:20.1		
	e SKSac	R	11:19:57.4		
	e SP	Z	11:22:25.2		
GUNZ	e Pdiff	Z	11:09:32.6	100.7	245.8
	e pPdiff	Z	11:10:21.7		
WERD	e Pdiff	Z	11:09:32.4	100.7	245.8

	e pPdiff	Z	11:10:21.6					
GEC2	e Pdiff	Z	11:09:33.3	100.9	246.5			
	e pPdiff	Z	11:10:22.4					
	e SKSac	R	11:19:57.1					
	e SP	Z	11:22:29.5					
BSEG	e Pdiff	Z	11:09:34.3	101.1	244.9			
	e pPdiff	Z	11:10:22.7					
	e SKSac	R	11:19:58.8					
	e SP	Z	11:22:31.1					
CLL	i Pdiff -	Z	11:09:35.8	101.5	246.4	1.1	11	
	e pPdif	Z	11:10:20.7					
	e PP	Z	11:13:50.0					
	e pPP	Z	11:14:46.2					
	e SKSac	E	11:20:01.3					
	e SKKSac	E	11:20:40.4					
	e Sdiff	N	11:21:04.3					
	e sSdif	E	11:21:29.6					
	e SP	Z	11:22:32.8					
	e SS	E	11:28:15.8					
	e sSS	E	11:29:42.0					
	e		11:33:45.9					
	e L	Z	11:56:00.8			18.3	761	
BRG	e Pdiff	Z	11:09:37.8	101.9	247.0			
	e pPdiff	Z	11:10:26.4					
	e SKSac	R	11:20:02.4					
	e SP	Z	11:22:40.1					
RUE	e SKSac	R	11:20:03.1	102.4	247.2			
	e SP	Z	11:22:45.5					
RGN	e SP	Z	11:22:49.8	102.9	247.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/02	15:26:57.0	18.600S	178.100W	495.0N				NEIR-M

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	15:45:46.8	148.0	16.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/02	16:32: 9.3	42.102N	142.869E	33.0N	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:44:09.9	78.9	34.4	1.0	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/02	19:16:44.2	31.878N	131.200E	33.0N	4.6			SZGRF

Kyushu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:29:04.7	82.6	47.9	1.5	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03	00:42: 3.1	1.530N	97.120E	33.0N	5.1	5.5		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:54:33.1	84.5	94.3	0.9	8	5.0		
	e S	T	01:04:57.1							
GEC2	e P	Z	00:54:33.3	84.5	94.0	0.9	14	5.2		
	e S	R	01:05:01.1							
RUE	e P	Z	00:54:34.2	84.7	94.4	1.0	23	5.4		
	e S	T	01:04:58.4							
CLL	e P	Z	00:54:35.7	85.1	93.6	0.9	6	4.9		
	e S	T	01:05:02.9							
GUNZ	e P	Z	00:54:38.1	85.5	93.0	0.9	9	5.0		
WERD	e P	Z	00:54:38.0	85.5	93.0	0.9	7	4.9		
NOTT	e P	Z	00:54:39.2	85.6	92.8	1.0	7	4.9		
	e S	T	01:05:10.1							
MOX	e P	Z	00:54:40.5	86.0	92.5	0.9	6	4.8		
	e S	T	01:05:13.5							
FUR	e P	Z	00:54:40.5	86.1	92.1	0.8	7	5.0		
	e S	T	01:05:11.8							
GRA1	e P	Z	00:54:41.7	86.2	92.1	0.9	15	5.2		
	e S	T	01:05:16.8							
	e L	Z	01:39:45.3			21.6	2214		5.5	
CLZ	e P	Z	00:54:44.4	86.8	91.6	0.9	9	4.9		
	e S	T	01:05:21.4							
BSEG	e P	Z	00:54:45.2	86.9	91.7	1.3	31	5.3		
	e S	T	01:05:20.2							
NRDL	e P	Z	00:54:46.1	87.0	91.4	1.4	27	5.2		
	e S	T	01:05:21.2							
STU	e S	T	01:05:27.5	87.5	90.6					
TNS	e P	Z	00:54:50.4	88.0	90.0					
BFO	e P	Z	00:54:50.1	88.1	89.9	0.8	5	4.7		
	e PP	Z	00:58:13.4							
	e S	T	01:05:32.7							
IBBN	e P	Z	00:54:52.4	88.4	89.6	0.9	29	5.6		
	e S	T	01:05:37.3							
BUG	e P	Z	00:54:53.7	88.7	89.2	0.9	18	5.4		
	e S	T	01:05:39.3							

	WLF	e	P		Z	00:54:57.8	89.5	88.3	1.3	19	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03	00:53:43.9	19.020S	173.550W	33.0N				SZGRF

Tonga Islands

	Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e PKPbc		Z	01:13:16.0	145.0	6.4					
	RUE	e PKPbc		Z	01:13:19.8	146.1	12.5					
	NRDL	e PKPbc		Z	01:13:20.8	146.4	6.3					
		e PP		Z	01:16:45.0							
	IBBN	e PKPbc		Z	01:13:21.7	146.7	2.3					
	CLZ	e PKPbc		Z	01:13:23.2	147.0	6.8					
		e PP		Z	01:16:48.9							
	CLL	i PKPbc	+	Z	01:13:23.9	147.3	11.5	1.2	77			
		i			01:13:26.5			1.8	220			
		i			01:13:34.6							
		i			01:13:44.0							
		i			01:13:56.6							
		e			01:15:22.8							
		e L		Z	02:35:10.2			17.8	909			
	BUG	e PKPbc		Z	01:13:24.3	147.6	1.4					
	BRG	e PKPbc		Z	01:13:24.3	147.6	13.3					
	MOX	e PKPbc		Z	01:13:26.3	148.1	9.3					
	WERD	e PKPbc		Z	01:13:25.1	148.2	10.6					
	GUNZ	e PKPbc		Z	01:13:27.2	148.3	10.6					
	TNS	e PKPbc		Z	01:13:27.9	148.8	3.6					
	NOTT	e PKPbc		Z	01:13:28.3	148.9	10.4					
	GRA1	e PKPbc		Z	01:13:29.1	149.1	8.8					
		e PP		Z	01:17:01.1							
	WLF	e PKPbc		Z	01:13:29.7	149.4	359.4					
	GEC2	e PKPbc		Z	01:13:30.4	149.6	13.6					
	STU	e PKPbc		Z	01:13:31.4	150.2	5.2					
	FUR	e PKPbc		Z	01:13:32.4	150.6	9.3					
	BFO	e PKPbc		Z	01:13:32.4	150.7	3.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03	05:12:58.9	22.780S	178.080W	550.0				SZGRF

South of Fiji Islands

	Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e PKPbc		Z	05:31:42.1	148.2	14.8					
		e PKPab		Z	05:31:48.2							
	RUE	e PKPbc		Z	05:31:43.9	148.9	21.6					
	NRDL	e PKPbc		Z	05:31:45.6	149.6	15.1					

		e	PKPab	Z	05:31:53.7				
		e	pPKPbc	Z	05:33:56.0				
	IBBN	e	PKPbc	Z	05:31:46.9	150.1	10.9		
		e	PKPab	Z	05:31:56.4				
	CLL	i	PKPdf	Z	05:31:40.7	150.2	20.9		
		i	PKPbc	- Z	05:31:46.5			0.8	59
		i	PKPab	+ Z	05:31:55.7			0.9	22
		e			05:32:06.6				
		e	pPKPdf	Z	05:33:50.4				
		i	pPKPbc	Z	05:33:56.6				
	CLZ	e	PKPbc	Z	05:31:47.1	150.2	15.8		
		e	PKPab	Z	05:31:56.7				
		e	pPKPbc	Z	05:33:56.8				
	BRG	e	PKPbc	Z	05:31:47.1	150.4	22.9		
	MOX	e	PKPbc	Z	05:31:48.6	151.1	18.8		
		e	PKPab	Z	05:31:59.9				
		e	pPKPbc	Z	05:33:59.1				
	WERD	e	PKPbc	Z	05:31:48.8	151.2	20.2		
	GUNZ	e	PKPbc	Z	05:31:49.1	151.2	20.3		
		e	PKPab	Z	05:32:00.7				
	NOTT	e	PKPbc	Z	05:31:50.2	151.8	20.2		
		e	PKPab	Z	05:32:03.1				
	TNS	e	PKPbc	Z	05:31:51.0	152.1	12.9		
		e	PKPab	Z	05:32:04.3				
	GRA1	e	PKPbc	Z	05:31:50.8	152.1	18.6		
		e	PKPab	Z	05:32:04.8				
		e	pPKPbc	Z	05:34:00.8				
	GEC2	e	PKPbc	Z	05:31:51.0	152.3	23.9		
		e	PKPab	Z	05:32:04.6				
	WLF	e	PKPbc	Z	05:31:53.4	152.9	8.6		
	STU	e	PKPbc	Z	05:31:54.0	153.4	15.1		
		e	PKPab	Z	05:32:10.1				
	FUR	e	PKPab	Z	05:32:10.6	153.5	19.7		
	BFO	e	PKPbc	Z	05:31:55.1	153.9	13.6		
		e	PKPab	Z	05:32:12.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:46:09.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03	13:26:21.5	3.638N	95.202E	33.0N				SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:38:45.5	83.3	92.2	1.0	7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03	17:03:10.4	45.868N	152.300E	33.0N	4.5			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:15:09.5	78.6	26.5	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	18:06:41.3							
	e Sn	N	18:07:34.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	18:09:22.6							
	e Sn	E	18:10:15.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03	19:24:44.1	16.070S	69.050W	33.0N	5.2			SZGRF

Peru-Bolivia border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:37:53.4	93.0	248.5					
BUG	e P	Z	19:37:58.4	94.3	249.4	1.3	21	5.3		
STU	e P	Z	19:37:59.9	94.5	250.7	0.6	12	5.4		
TNS	e P	Z	19:37:59.6	94.6	250.2	1.0	8	5.0		
IBBN	e P	Z	19:38:01.2	94.9	249.9	0.8	15	5.5		
GRA1	e P	Z	19:38:06.2	96.1	252.3	1.1	10	5.3		
CLZ	e P	Z	19:38:07.2	96.2	251.8	1.1	12	5.3		
NRDL	e P	Z	19:38:07.6	96.3	251.7	1.0	5	5.0		
NOTT	e P	Z	19:38:09.6	96.7	252.9	0.9	6	5.2		
BSEG	e P	Z	19:38:10.1	96.9	252.0	1.0	13	5.5		
WERD	e P	Z	19:38:11.3	97.0	253.2	0.9	3	5.0		

GEC2	e P	Z	19:38:12.4	97.4	254.0	0.9	4	5.1	
CLL	e P	Z	19:38:13.8	97.6	253.8	0.7	4	5.2	
BRG	e P	Z	19:38:16.3	98.1	254.4	1.1	3	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	21:27:02.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	22:10:38.8							
	e Sn	E	22:11:39.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	03:25:57.0	63.886N	28.214W	33.0N	4.7			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:31:20.3	25.2	319.0	2.6	41	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	07:01:50.8	54.050N	40.190W	33.0N	4.7	4.0		SZGRF

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	07:07:42.2	28.2	292.9	1.1	59	4.9		
BUG	e P	Z	07:07:43.0	28.3	294.2	1.7	94	5.4		
NRDL	e P	Z	07:07:52.7	29.5	293.4	1.3	22	4.8		
TNS	e P	Z	07:07:53.8	29.5	296.5	1.0	18	4.8		
CLZ	e P	Z	07:07:57.5	29.9	294.5	1.2	19	4.8		
BFO	e P	Z	07:08:00.2	30.3	299.4	1.1	13	4.7		
MOX	e P	Z	07:08:07.6	31.1	296.8	1.3	12	4.7		
GRA1	e P	Z	07:08:09.6	31.3	298.0	1.8	48	5.1		
	e L	Z	07:18:09.1			20.8	342		4.0	
WERD	e P	Z	07:08:12.0	31.6	297.3	1.3	23	4.9		
CLL	e P	Z	07:08:12.0	31.6	296.2	1.1	19	4.9		
GUNZ	e P	Z	07:08:12.3	31.6	297.4	1.1	18	4.9		

NOTT	e P	Z	07:08:14.3	31.8	298.1	1.1	6	4.5	
BRG	e P	Z	07:08:18.3	32.3	297.2	1.0	7	4.5	
GEC2	e P	Z	07:08:25.9	33.2	299.9	1.3	11	4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	07:47:10.2	36.285N	68.671E	33.0N	4.4			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:55:06.4	43.0	85.6	1.9	14	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	10:17:21.7							
	e Sn	E	10:18:14.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	14:50:48.8	8.740S	145.300E	33.0N		6.2		SZGRF

Near south coast of New Guinea, Papua New Guinea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP	Z	15:11:04.6	120.5	58.5					
	e SP	Z	15:20:50.1							
RUE	e PP	Z	15:11:09.8	121.3	60.0					
	e SP	Z	15:20:58.3							
BRG	e PKPdf	Z	15:09:37.2	122.0	61.0					
	e PP	Z	15:11:14.8							
	e SP	Z	15:21:05.5							
BSEG	e PKPdf	Z	15:09:35.5	122.3	55.8					
	e PP	Z	15:11:16.7							
	e SP	Z	15:21:05.2							
CLL	i PKPdf	+ Z	15:09:37.5	121.1	57.0	0.8	10			
	i		15:09:43.1							
	e PP	Z	15:11:15.1							
	e Sdiff	N	15:19:01.4							
	e PKKPbc	Z	15:19:47.0			1.3	16			
	e PS	Z	15:21:05.7							
	e PPS	Z	15:22:18.0							
	e SS	N	15:27:40.5							
	e SSSS	N	15:35:27.6							
	e L	Z	16:07:58.4			18.2	4589			

GEC2	e PKPdf	Z	15:09:39.5	123.1	61.9				
	e PP	Z	15:11:21.7						
	e SP	Z	15:21:15.4						
NRDL	e PKPdf	Z	15:09:39.2	123.2	56.3				
	e PP	Z	15:11:23.2						
	e SP	Z	15:21:12.3						
HLG	e PP	Z	15:11:23.2	123.3	53.2				
	e SP	Z	15:21:15.1						
MOX	e PKPdf	Z	15:09:40.4	123.4	58.9				
	e PP	Z	15:11:23.9						
	e SP	Z	15:21:17.2						
CLZ	e PKPdf	Z	15:09:40.1	123.4	57.0				
	e PP	Z	15:11:24.8						
	e SP	Z	15:21:15.4						
NOTT	e PP	Z	15:11:25.5	123.5	59.9				
	e SP	Z	15:21:19.7						
GRA1	e PKPdf	Z	15:09:41.2	124.1	59.0				
	e PP	Z	15:11:28.5						
	e Sdiff	N	15:19:25.1						
	e SP	Z	15:21:24.4						
	e SS	N	15:28:23.5						
	e L	Z	16:09:26.6			19.5	4838	6.2	
GRFO	e PP	Z	15:11:28.6	124.1	59.0				
	e SP	Z	15:21:24.4						
IBBN	e PP	Z	15:11:30.9	124.5	54.0				
	e SP	Z	15:21:25.4						
FUR	e PKPdf	Z	15:09:43.7	124.8	60.0				
	e PP	Z	15:11:33.0						
	e SP	Z	15:21:31.2						
BUG	e PP	Z	15:11:35.8	125.2	54.0				
	e SP	Z	15:21:30.6						
TNS	e PKPdf	Z	15:09:43.0	125.3	55.9				
	e PP	Z	15:11:35.9						
	e SP	Z	15:21:34.1						
STU	e PKPdf	Z	15:09:44.1	125.7	57.6				
	e PP	Z	15:11:37.3						
	e SP	Z	15:21:38.1						
BFO	e PP	Z	15:11:41.6	126.4	57.0				
	e SP	Z	15:21:44.3						
WLF	e PP	Z	15:11:47.3	126.9	53.9				
	e SP	Z	15:21:49.1						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	18:23:29.2	32.040N	139.290E	336.4	5.0			SZGRF

Southeast of Honshu, Japan

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

RUE	e P	Z	18:35:19.2	83.1	44.0	1.0	20	5.3
BSEG	e P	Z	18:35:21.0	83.4	41.6	1.4	19	5.2
BRG	e P	Z	18:35:24.3	84.1	44.0	0.8	9	5.1
CLL	e P	Z	18:35:24.7	84.2	43.4	1.0	21	5.3
	e pP	Z	18:36:43.2					
CLZ	e P	Z	18:35:28.8	84.9	41.5	1.0	14	5.0
WERD	e P	Z	18:35:29.7	85.2	42.8	1.3	11	4.8
GUNZ	e P	Z	18:35:29.8	85.2	42.8	0.9	9	4.9
MOX	e P	Z	18:35:30.3	85.3	42.3			
IBBN	e P	Z	18:35:31.9	85.6	39.5	1.1	20	5.2
GEC2	e P	Z	18:35:32.2	85.7	43.7	0.9	6	4.7
NOTT	e P	Z	18:35:32.7	85.7	42.6	1.1	8	4.8
GRA1	e P	Z	18:35:34.9	86.2	42.0	0.6	9	5.1
BFO	e P	Z	18:35:45.2	88.5	39.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	18:40:25.6	11.654N	41.801E	33.0N	4.5			SZGRF

Ethiopia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:48:43.1	45.6	135.8	0.9	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	21:27:35.8	44.657N	10.414E	10.0G			3.5	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	21:28:47.2	4.8	209.5					3.3
	e Sn	N	21:29:40.4							
GRA1	e Pn	Z	21:28:51.9	5.1	186.5					3.9
	e Sn	N	21:29:47.8							
NOTT	e Pn	Z	21:28:53.4	5.3	193.3					3.2
	e Sn	E	21:29:53.0							
GUNZ	e Pn	Z	21:29:01.1	5.9	193.5					3.5
	e Sn	E	21:30:07.3							
WERD	e Pn	Z	21:29:03.9	5.9	193.1					
MOX	e Pn	Z	21:29:04.2	6.0	188.1					3.6
	e Sn	E	21:30:10.8							
BRG	e Pn	Z	21:29:13.5	6.7	202.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04	21:50:32.7	44.734N	10.346E	10.0G			3.1	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	21:51:43.4	4.7	210.4					3.0
	e Sn	N	21:52:36.6							
GRA1	e Sn	N	21:52:44.0	5.0	187.2					3.3
NOTT	e Pn	Z	21:51:49.4	5.2	194.0					2.9
	e Sn	E	21:52:48.1							
GUNZ	e Pn	Z	21:51:57.5	5.8	194.1					3.1
	e Sn	E	21:53:02.2							
WERD	e Pn	Z	21:51:59.9	5.9	193.8					3.2
	e Sn	N	21:53:05.1							
MOX	e Pn	Z	21:52:00.3	6.0	188.7					3.3
	e Sn	N	21:53:06.1							
BRG	e Pn	Z	21:52:09.8	6.6	202.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/04								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:51:10.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	03:45:16.2	38.516N	42.126E	33.0N	4.7			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:50:33.9	24.6	105.2	1.4	21	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	04:18:47.4	44.712N	9.351E	10.0G			3.5	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	04:19:44.0	3.7	168.6					3.5
	e Sn	E	04:20:26.3							
FUR	e Pn	Z	04:19:45.2	3.7	201.7					3.8
	e Sn	E	04:20:28.0							
GEC2	e Pn	Z	04:20:02.8	5.1	217.4					3.3
	e Sn	E	04:21:00.4							
GRA1	e Sn	N	04:21:00.8	5.1	195.0					
TNS	e Pn	Z	04:20:09.7	5.5	173.3					3.5
	e Sn	E	04:21:12.0							
MOX	e Sn	E	04:21:25.2	6.1	195.3					3.5

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

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:48:20.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	04:53:53.5	21.920S	177.730W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:13:34.3	147.4	14.0					
NRDL	e PKPbc	Z	05:13:37.6	148.8	14.1					
IBBN	e PKPbc	Z	05:13:37.9	149.3	10.0					
	e PKPab	Z	05:13:43.7							
CLZ	e PKPbc	Z	05:13:39.5	149.4	14.9					
CLL	e PKPbc	Z	05:13:39.7	149.4	19.9					
BRG	e PKPbc	Z	05:13:40.3	149.6	21.8					
	e PKPab	Z	05:13:45.0							
BUG	e PKPbc	Z	05:13:41.1	150.2	9.4					
MOX	e PKPbc	Z	05:13:41.8	150.4	17.7					
WERD	e PKPbc	Z	05:13:42.2	150.4	19.1					
GUNZ	e PKPbc	Z	05:13:42.5	150.5	19.2					
NOTT	e PKPbc	Z	05:13:43.6	151.0	19.1					
TNS	e PKPbc	Z	05:13:44.3	151.3	12.0					
	e PKPab	Z	05:13:52.0							
GRA1	e PKPbc	Z	05:13:44.6	151.3	17.5					
	e PKPab	Z	05:13:52.0							
GEC2	e PKPbc	Z	05:13:44.9	151.6	22.7					
STU	e PKPdf	Z	05:13:41.2	152.6	14.1					
	e PKPbc	Z	05:13:47.1							
	e PKPab	Z	05:13:57.0							
FUR	e PKPdf	Z	05:13:41.1	152.8	18.5					
	e PKPbc	Z	05:13:47.5							
	e PKPab	Z	05:13:58.5							
BFO	e PKPbc	Z	05:13:47.1	153.1	12.5					
	e PKPab	Z	05:13:59.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	07:36:56.0	17.110S	175.790W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	07:56:29.1	144.9	10.3					
CLL	e PKPbc	Z	07:56:28.8	145.1	14.8					
BRG	e PKPbc	Z	07:56:29.1	145.4	16.5					
BUG	e PKPbc	Z	07:56:30.3	145.6	5.2					
MOX	e PKPbc	Z	07:56:32.2	145.9	12.7					
GUNZ	e PKPbc	Z	07:56:32.4	146.1	14.0					
GRA1	e PKPbc	Z	07:56:35.2	146.9	12.3					
GEC2	e PKPbc	Z	07:56:36.5	147.3	17.0					
BFO	e PKPbc	Z	07:56:39.8	148.6	7.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	08:28:59.7	24.534N	108.798W	33.0N	5.2	5.7		SZGRF

Gulf of California, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	08:41:48.1	89.4	308.5					
	e S	E	08:52:38.4							
	e SS	N	08:58:18.5							
	e		08:59:46.1							
	e SSSS	N	09:05:29.6							
	e L	Z	09:24:18.7			16.7	3425			
GRA1	e P	Z	08:41:50.2	88.7	308.0	1.6	9	5.2		
	e L	Z	09:19:33.1			20.9	3104		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	12:32:24.8	6.900S	155.500E	33.0N				GSRC-M

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:51:30.1	127.8	47.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	20:04:21.1	19.759S	170.985E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPab	Z	20:23:48.2	144.0	38.7					
CLL	e PKPab	Z	20:23:47.9	144.0	36.9					
CLZ	e PKPab	Z	20:23:50.7	144.5	32.6					
WERD	e PKPab	Z	20:23:53.0	145.0	36.6					
GUNZ	e PKPab	Z	20:23:53.2	145.0	36.7					
MOX	e PKPab	Z	20:23:53.3	145.1	35.4					

NOTT	e PKPab	Z	20:23:55.8	145.6	36.9
GEC2	e PKPab	Z	20:23:55.6	145.7	40.1
GRA1	e PKPab	Z	20:23:57.7	146.0	35.6
FUR	e PKPab	Z	20:24:03.0	147.2	37.1
STU	e PKPab	Z	20:24:04.2	147.5	33.2
BFO	e PKPab	Z	20:24:06.8	148.2	32.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/05	22:32:16.8	26.573S	84.572E	10.0G		4.3		NEIC-M

South Indian Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e SP	Z	22:59:52.2	99.3	119.8					
NOTT	e SP	Z	22:59:42.4	99.7	120.1					
GRA1	e L	Z	23:38:47.7	100.1	119.5	19.8	101		4.3	
STU	e SP	Z	23:00:11.8	100.8	118.2					
BFO	e SP	Z	23:00:16.7	101.1	117.7					
RGN	e SP	Z	23:00:16.7	101.4	120.2					
CLZ	e SP	Z	23:00:06.9	101.6	118.5					
TNS	e SP	Z	23:00:21.6	101.9	117.5					
NRDL	e SP	Z	23:00:16.7	102.1	118.2					
WLF	e SP	Z	23:00:31.4	103.0	116.0					
BUG	e SP	Z	23:00:36.3	103.1	116.4					
IBBN	e SP	Z	23:00:36.3	103.3	116.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/06	01:20: 4.7	15.300N	61.660W	33.0N	5.1			SZGRF

Leeward Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	01:30:37.2	64.1	263.2	0.9	15	5.2		
BUG	e P	Z	01:30:42.9	65.0	263.2	0.9	7	4.9		
BFO	e P	Z	01:30:45.4	65.4	265.5	1.2	8	4.8		
IBBN	e P	Z	01:30:45.8	65.4	263.2	0.8	22	5.4		
TNS	e P	Z	01:30:47.3	65.6	264.7	1.0	16	5.2		
STU	e P	Z	01:30:49.1	66.0	266.0	0.9	16	5.3		
NRDL	e P	Z	01:30:55.3	66.9	265.1	1.1	15	5.1		
CLZ	e P	Z	01:30:55.9	67.0	265.6	1.5	26	5.2		
BSEG	e P	Z	01:30:56.1	67.1	264.6	1.1	18	5.2		
GRA1	e P	Z	01:30:57.9	67.4	267.2	1.3	15	5.1		
MOX	e P	Z	01:30:59.8	67.7	267.1	1.1	6	4.7		
NOTT	e P	Z	01:31:02.1	67.9	267.8	1.2	7	4.8		
WERD	e P	Z	01:31:02.7	68.1	267.7	1.2	8	4.8		
GUNZ	e P	Z	01:31:02.9	68.1	267.7	0.9	7	4.9		
CLL	e P	Z	01:31:05.8	68.6	267.9	1.1	18	5.2		

GEC2	e P	Z	01:31:08.3	69.0	269.4	1.4	11	4.9
RUE	e P	Z	01:31:09.1	69.1	268.1	0.8	17	5.3
BRG	e P	Z	01:31:09.4	69.1	268.8	0.9	13	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/06	07:41:26.5	38.750N	41.470E	33.0G	5.0	5.1		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:46:20.4	22.3	106.5	1.0	28	4.5		
BRG	e P	Z	07:46:26.1	22.8	111.4	1.3	34	4.6		
	e S	R	07:50:33.5							
CLL	i P	Z	07:46:34.6	23.5	111.2	1.1	42	4.8		
	i		07:46:41.4			3.2	950			
	e PPP	Z	07:47:09.7							
	e S	E	07:50:41.8							
	e L	Z	07:57:47.4			12.5	8063			
RUE	e P	Z	07:46:35.2	23.5	114.7					
	e S	R	07:50:43.2							
NOTT	e P	Z	07:46:34.2	23.5	106.8	1.2	34	4.7		
	e S	R	07:50:46.6							
GUNZ	e P	Z	07:46:34.8	23.6	108.3	1.5	85	5.0		
WERD	e P	Z	07:46:35.4	23.6	108.4	1.7	65	4.9		
FUR	e P	Z	07:46:36.2	23.7	102.2	1.1	109	5.3		
	e S	R	07:50:47.4							
GRA1	e P	Z	07:46:39.8	24.1	105.5	1.0	235	5.7		
	e S	R	07:50:56.0							
	e L	Z	07:57:56.7			18.3	5955		5.1	
MOX	e P	Z	07:46:40.7	24.1	108.0	1.7	49	4.8		
	e S	R	07:50:55.2							
RGN	e S	R	07:51:05.9	24.7	118.2					
STU	e S	R	07:51:15.0	25.1	101.3					
CLZ	e P	Z	07:46:50.7	25.2	109.0	1.1	38	4.9		
	e S	R	07:51:16.0							
NRDL	e P	Z	07:46:54.5	25.6	109.9	2.1	132	5.1		
	e S	R	07:51:22.5							
BFO	e P	Z	07:46:54.7	25.6	99.5	1.6	42	4.9		
	e S	R	07:51:25.8							
TNS	e P	Z	07:46:57.4	25.9	103.5	2.5	329	5.6		
	e S	R	07:51:31.4							
BSEG	e P	Z	07:46:58.6	26.0	113.0	1.2	51	5.1		
	e S	R	07:51:33.1							
IBBN	e S	R	07:51:51.1	26.9	106.8					
BUG	e P	Z	07:47:07.6	26.9	104.6	0.7	16	4.8		
	e S	R	07:51:47.0							
WLF	e S	T	07:52:04.0	27.3	100.1					

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

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:42:31.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/06	19:17: 7.6	20.254S	177.376E	33.0G				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	19:36:45.6	146.6	27.3					
BRG	e PKPbc	Z	19:36:45.7	146.7	29.2					
FBE	e PKPbc	Z	19:36:46.5	146.9	28.2					
TANN	e PKPbc	Z	19:36:47.9	147.6	27.1					
WERD	e PKPbc	Z	19:36:48.3	147.6	26.8					
MOX	e PKPbc	Z	19:36:48.2	147.6	25.5					
GUNZ	e PKPbc	Z	19:36:48.7	147.7	26.9					
NOTT	e PKPbc	Z	19:36:49.9	148.2	26.9					
GEC2	e PKPbc	Z	19:36:51.0	148.6	30.4					
GRA1	e PKPbc	Z	19:36:50.8	148.6	25.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/06	22:37: 8.2	48.565N	156.548E	33.0N	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:48:59.8	77.3	22.7	0.9	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	03:27:12.0	12.650N	94.110E	33.0N	5.1			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:38:45.4	74.0	89.5	1.4	22	5.0		
RUE	e P	Z	03:38:45.7	74.1	89.8	0.6	30	5.5		
GEC2	e P	Z	03:38:46.5	74.2	88.7	0.7	8	4.8		
CLL	e P	Z	03:38:48.7	74.6	88.9	1.0	9	4.8		
GUNZ	e P	Z	03:38:51.3	75.1	88.1	1.3	15	4.9		
WERD	e P	Z	03:38:51.3	75.1	88.1	1.2	14	4.9		
NOTT	e P	Z	03:38:51.9	75.2	87.8	1.4	13	4.8		

MOX	e	P	Z	03:38:53.7	75.5	87.6	1.5	19	5.0
GRA1	e	P	Z	03:38:55.9	75.8	87.1	1.2	22	5.2
FUR	e	P	Z	03:38:56.2	75.9	86.7	0.6	13	5.2
BSEG	e	P	Z	03:38:57.6	76.2	87.4	1.0	46	5.5
CLZ	e	P	Z	03:38:57.9	76.2	87.0	1.0	23	5.3
NRDL	e	P	Z	03:38:59.0	76.4	86.9	1.4	48	5.4
STU	e	P	Z	03:39:03.2	77.2	85.3	0.4	9	5.2
TNS	e	P	Z	03:39:05.2	77.6	85.1	1.4	19	5.0
IBBN	e	P	Z	03:39:07.1	77.8	85.0	0.8	26	5.4
BUG	e	P	Z	03:39:09.1	78.2	84.5	1.0	32	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	04:21:24.1	29.960S	177.630W	33.0G				SZGRF

Kermadec Islands, New Zealand

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPdf	Z	04:41:15.0	155.3	16.7					
	e	PKPab	Z	04:41:39.5							
	e	PP	Z	04:45:16.6							
RUE	e	PKPdf	Z	04:41:17.1	156.0	24.9					
	e	PKPab	Z	04:41:41.9							
NRDL	e	PKPdf	Z	04:41:17.9	156.8	17.2					
	e	PKPab	Z	04:41:45.3							
CLL	i	PKPdf	+ Z	04:41:17.2	157.2	24.4	1.2	20			
	i	PKPdif	Z	04:41:27.4			1.2	24			
	i	PKPab	+ Z	04:41:47.5			1.6	178			
	i			04:42:07.5							
	e			04:43:22.6							
IBBN	e	PKPdf	Z	04:41:19.2	157.3	12.2					
	e	PKPab	Z	04:41:48.1							
CLZ	e	PKPdf	Z	04:41:17.6	157.3	18.2					
	e	PKPab	Z	04:41:48.1							
	e	PP	Z	04:45:27.1							
BRG	e	PKPdf	Z	04:41:17.4	157.4	26.9					
	e	PKPab	Z	04:41:47.9							
MOX	e	PKPdf	Z	04:41:18.7	158.2	22.0					
	e	PKPab	Z	04:41:51.5							
WERD	e	PKPab	Z	04:41:51.8	158.2	23.7					
BUG	e	PKPab	Z	04:41:51.7	158.2	11.5					
GUNZ	e	PKPdf	Z	04:41:18.1	158.3	23.9					
	e	PKPab	Z	04:41:52.2							
NOTT	e	PKPab	Z	04:41:54.7	158.8	24.0					
GRA1	e	PKPab	Z	04:41:56.5	159.2	22.0					
TNS	e	PKPab	Z	04:41:56.3	159.2	15.0					
GEC2	e	PKPdf	Z	04:41:20.1	159.2	28.7					
	e	PKPab	Z	04:41:56.0							
WLF	e	PKPab	Z	04:42:00.7	160.1	9.7					

STU	e PKPab	Z	04:42:01.5	160.5	17.9
FUR	e PKPab	Z	04:42:02.3	160.6	23.8
BFO	e PKPab	Z	04:42:04.2	161.1	16.1
	e PP	Z	04:45:46.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	04:59:44.1	61.922N	25.387W	33.0N	4.2	4.1		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:04:51.2	23.5	315.2	1.2	10	4.2		
	e L	Z	05:13:54.7			21.6	651		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	05:34:15.7	62.282S	161.574W	10.0G		5.9		NEIC-M

Pacific-Antarctic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	05:54:31.4	168.6	192.8					
	e PKPab	Z	05:55:37.6			0.9	7			
	e		06:09:54.4							
	e L	Z	07:16:52.8			19.5	1357			
GRA1	e PKPab	Z	05:55:28.4	166.8	194.8					
	e L	Z	07:12:51.3			21.0	1610		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	13:20: 5.7	62.078N	25.654W	33.0N	4.2	4.1		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:25:14.5	23.6	315.5	1.4	12	4.2		
	e L	Z	13:34:46.9			19.0	559		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	16:01:28.8	61.961N	25.366W	33.0N	4.6	4.1		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:06:36.0	23.5	315.3	1.6	35	4.6		
	e L	Z	16:16:07.3			18.6	676		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	16:19:53.2	11.220S	73.310W	33.0N	5.3			SZGRF

Central Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	16:32:57.3	91.8	254.8	1.2	37	5.6		
STU	e P	Z	16:33:05.3	93.6	257.0	0.5	11	5.6		
FUR	e P	Z	16:33:11.5	94.8	258.5	0.7	17	5.6		
NRDL	e P	Z	16:33:11.9	94.9	258.0	0.7	5	5.1		
GRA1	e P	Z	16:33:12.0	95.0	258.6	0.8	7	5.1		
MOX	e P	Z	16:33:14.3	95.5	259.0	0.9	4	4.8		
NOTT	e P	Z	16:33:14.7	95.6	259.3	1.1	10	5.3		
WERD	e P	Z	16:33:16.2	95.9	259.5	1.4	8	5.1		
GEC2	e P	Z	16:33:18.6	96.5	260.4	0.9	8	5.2		
BRG	e P	Z	16:33:20.8	97.0	260.8	1.1	8	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	16:45:20.0	23.860N	121.333E	33.0N	5.0			SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:57:47.3	84.0	59.7	1.6	16	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/07	18:50:30.3	62.089N	25.582W	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	18:55:38.8	23.6	315.5	2.1	39	4.6		
	e L	Z	19:05:10.5			18.5	504		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/08	04:25:18.4	62.194N	26.013W	33.0N	4.7	4.2		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:30:29.1	23.8	315.7	1.6	37	4.7		
	e L	Z	04:40:01.3			18.2	675		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/08	06:28:13.4	3.080N	97.440E	33.0N	5.8	5.6		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:40:38.4	83.5	93.1	2.0	263	6.1		
	e S	T	06:50:58.9							
GEC2	e P	Z	06:40:38.7	83.6	92.7	1.8	267	6.2		
	e S	T	06:50:59.1							
RUE	e P	Z	06:40:39.4	83.7	93.2	1.3	209	6.2		
	e S	T	06:50:59.4							
CLL	e P	Z	06:40:41.1	84.1	92.4	2.0	156	5.9		
	e S	T	06:51:03.6							
GUNZ	e P	Z	06:40:43.5	84.5	91.8	1.2	47	5.6		
WERD	e P	Z	06:40:43.4	84.5	91.8	0.9	29	5.5		
NOTT	e P	Z	06:40:44.2	84.6	91.6	1.6	102	5.8		
	e S	T	06:51:11.5							
MOX	e P	Z	06:40:45.7	85.0	91.3	1.9	108	5.8		
	e S	T	06:51:13.0							
FUR	e P	Z	06:40:45.9	85.1	90.8	1.0	40	5.6		
	e S	T	06:51:13.5							
GRA1	e P	Z	06:40:47.2	85.2	90.9	1.0	70	5.8		
	e S	T	06:51:16.6							
	e L	Z	07:25:30.6			21.8	3041		5.6	
CLZ	e P	Z	06:40:49.9	85.8	90.4	1.2	63	5.7		
	e S	T	06:51:19.9							
BSEG	e P	Z	06:40:50.6	85.8	90.5	1.2	82	5.8		
	e S	T	06:51:21.6							
NRDL	e P	Z	06:40:51.2	85.9	90.2	1.9	292	6.2		
	e S	T	06:51:22.6							
STU	e P	Z	06:40:53.0	86.5	89.3	0.9	43	5.6		
	e S	T	06:51:27.4							
TNS	e P	Z	06:40:55.9	87.0	88.8	0.9	40	5.5		
	e S	T	06:51:33.7							
BFO	e P	Z	06:40:55.5	87.1	88.6	0.9	24	5.3		
	e S	T	06:51:32.8							
IBBN	e P	Z	06:40:58.0	87.4	88.4	1.0	91	5.9		
	e S	T	06:51:36.3							
BUG	e P	Z	06:40:59.4	87.7	87.9	1.4	110	5.8		
	e S	T	06:51:39.7							
WLF	e P	Z	06:41:03.5	88.5	87.0	1.9	188	6.1		
	e S	T	06:51:48.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/08	09:55:39.2	62.114N	25.605W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:00:47.9	23.6	315.6	1.0	8	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/08	13:36:59.7	37.000S	105.500W	33.0G		4.9		SZGRF

Southern East Pacific Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PP	Z	13:58:14.1	130.5	257.5					
	e SP	Z	14:08:29.2							
BUG	e PP	Z	13:58:25.2	131.5	259.7					
	e SP	Z	14:08:39.9							
BFO	e PP	Z	13:58:26.4	131.6	257.7					
	e SP	Z	14:08:25.7							
IBBN	e PP	Z	13:58:24.7	132.0	260.8					
	e SP	Z	14:08:42.3							
TNS	e PP	Z	13:58:28.5	132.1	259.5					
	e SP	Z	14:08:44.8							
STU	e PP	Z	13:58:35.9	132.3	258.6					
	e SP	Z	14:08:45.1							
HLG	e PP	Z	13:58:28.7	132.3	262.6					
	e SP	Z	14:08:41.4							
NRDL	e PP	Z	13:58:41.2	133.4	262.7					
	e SP	Z	14:08:57.0							
FUR	e PP	Z	13:58:45.0	133.5	259.4					
	e SP	Z	14:08:59.8							
CLZ	e PP	Z	13:58:43.0	133.5	262.2					
	e SP	Z	14:08:58.1							
GRFO	e PP	Z	13:58:44.2	133.7	260.8					
	e SP	Z	14:08:59.8							
BSEG	e PP	Z	13:58:45.0	133.7	264.2					
	e SP	Z	14:08:59.4							
GRA1	e PP	Z	13:58:45.0	133.7	260.8					
	e SP	Z	14:09:00.2							
	e L	Z	14:49:59.5			20.3	221		4.9	
MOX	e PP	Z	13:58:48.6	134.1	262.0					
	e SP	Z	14:09:05.1							
NOTT	e PP	Z	13:58:50.6	134.3	261.5					
	e SP	Z	14:09:07.5							
CLL	e PP	Z	13:58:57.5	135.1	263.6					
	e SP	Z	14:09:11.9							
GEC2	e PP	Z	13:58:58.2	135.2	261.6					
	e SP	Z	14:09:12.3							
RGN	e PP	Z	13:59:02.5	135.5	267.1					
	e SP	Z	14:09:15.8							
BRG	e PP	Z	13:59:01.7	135.6	263.8					
	e SP	Z	14:09:16.4							

RUE	e SP	Z	14:09:16.6	135.7	265.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	00:28:42.0	35.555N	140.808E	33.0N	4.4			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:41:08.5	83.8	39.1	1.0	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	00:22:43.0	31.000S	178.400W	40.0N				NEIR-M

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:43:18.1	160.0	24.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	02:44:35.1	62.264N	25.817W	33.0N	4.3	3.7		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:49:45.1	23.8	315.9	1.2	13	4.3		
	e L	Z	02:59:25.3			18.5	246		3.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	03:45:18.2	5.103N	126.895E	102.0G		4.8		NEIC-M

Mindanao, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SP	Z	04:11:31.6	99.1	67.6					
BRG	e Pdiff	Z	03:58:53.9	100.1	68.7					
	e SP	Z	04:11:43.1							
CLL	e Pdiff	Z	03:58:55.3	100.5	67.9					
	e SP	Z	04:11:40.3							
BSEG	e Pdiff	Z	03:58:57.0	101.0	65.1					
	e SP	Z	04:11:54.9							
GEC2	e Pdiff	Z	03:58:57.5	101.0	68.9					
	e SP	Z	04:11:57.7							
WERD	e Pdiff	Z	03:58:58.9	101.3	67.4					
GUNZ	e Pdiff	Z	03:58:58.8	101.3	67.5					
MOX	e Pdiff	Z	03:59:00.2	101.6	66.8					

	e SP	Z	04:12:00.5						
NRDL	e Pdiff	Z	03:59:00.3	101.7	65.2				
	e SP	Z	04:11:56.4						
CLZ	e Pdiff	Z	03:59:01.6	101.8	65.6				
	e SP	Z	04:12:03.7						
GRA1	e Pdiff	Z	03:59:02.9	102.2	66.7				
	e SP	Z	04:12:08.4						
	e L	Z	04:49:58.2			21.0	324	4.8	
FUR	e Pdiff	Z	03:59:06.0	102.8	67.1				
	e SP	Z	04:12:17.2						
TNS	e Pdiff	Z	03:59:09.8	103.6	64.3				
	e SP	Z	04:12:29.0						
BUG	e SP	Z	04:12:41.6	103.7	63.0				
STU	e SP	Z	04:12:34.8	103.8	65.2				
BFO	e SP	Z	04:12:33.2	104.5	64.6				
WLF	e SP	Z	04:12:40.2	105.2	62.5				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	13:57: 4.6	3.701N	14.783E	33.0N	4.5			SZGRF

Cameroon

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	14:05:17.3	45.0	170.9					
GRA1	e P	Z	14:05:25.8	46.1	175.1	0.9	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	14:00:50.8	51.510N	131.740W	23.5	5.2	5.6		SZGRF

Queen Charlotte Islands, Canada, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:12:02.3	69.9	336.0	1.5	49	5.5		
IBBN	e P	Z	14:12:07.2	70.7	334.6	0.6	23	5.5		
NRDL	e P	Z	14:12:09.8	71.2	336.0	1.2	39	5.4		
BUG	e P	Z	14:12:10.9	71.4	334.5	0.9	18	5.2		
CLZ	e P	Z	14:12:14.1	71.8	336.3	1.1	45	5.5		
RUE	e P	Z	14:12:15.2	72.0	338.3	0.7	24	5.4		
WLF	e P	Z	14:12:19.1	72.7	334.1	0.9	11	5.0		
TNS	e P	Z	14:12:19.4	72.8	335.3	1.2	20	5.1		
CLL	i P	Z	14:12:20.8	72.9	337.9	1.1	13	5.0		
	i		14:12:27.0							
	e PP	Z	14:15:03.1							
	e PPP	Z	14:16:47.0							
	e PPPP	Z	14:17:43.0							
	e S	E	14:21:55.3							
	e PS	N	14:22:16.9							

	e PPS	Z	14:22:29.0						
	e SS	E	14:26:29.2						
	e SSS	N	14:30:22.2						
	e L	Z	14:46:13.0			17.8	4481		
MOX	e P	Z	14:12:21.9	73.2	337.2	1.0	24	5.3	
BRG	e P	Z	14:12:24.4	73.6	338.5	1.3	44	5.4	
WERD	e P	Z	14:12:24.2	73.6	337.6	1.4	20	5.0	
GUNZ	e P	Z	14:12:24.8	73.7	337.6	1.2	14	5.0	
GRA1	e P	Z	14:12:27.0	74.0	337.0	1.0	20	5.1	
	e pP	Z	14:12:33.7						
	e S	R	14:22:06.8						
	e SS	R	14:26:51.4						
	e L	Z	14:44:50.5			21.3	3428		5.6
STU	e P	Z	14:12:28.4	74.3	336.0	0.6	9	5.0	
BFO	e P	Z	14:12:29.4	74.5	335.5	1.4	42	5.3	
GEC2	e P	Z	14:12:34.8	75.4	338.6				
FUR	e P	Z	14:12:35.2	75.4	337.2	0.5	25	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	15:21:27.6	62.232N	25.894W	33.0N	4.5			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:26:37.8	23.8	315.8	2.0	28	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/09	18:26:34.9	22.684S	177.439W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:46:17.9	148.2	13.7					
RUE	e PKPbc	Z	18:46:19.8	149.0	20.4					
NRDL	e PKPbc	Z	18:46:21.3	149.6	13.9					
IBBN	e PKPbc	Z	18:46:22.7	150.1	9.7					
CLZ	e PKPbc	Z	18:46:23.1	150.2	14.6					
CLL	e PKPbc	Z	18:46:22.7	150.3	19.7					
BRG	e PKPbc	Z	18:46:23.2	150.5	21.7					
BUG	e PKPbc	Z	18:46:24.3	151.0	9.0					
MOX	e PKPbc	Z	18:46:24.8	151.2	17.5					
WERD	e PKPbc	Z	18:46:25.0	151.2	18.9					
GUNZ	e PKPbc	Z	18:46:25.3	151.3	19.0					
TNS	e PKPbc	Z	18:46:27.1	152.1	11.7					
GRA1	e PKPbc	Z	18:46:27.4	152.1	17.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:12:48.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10	01:32:52.2	23.743N	121.249E	33.0N	4.5	4.7		SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:45:19.7	84.0	59.9	1.3	4	4.5		
	e L	Z	02:27:40.5			18.6	289		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10	02:40: 3.3	1.190N	95.891E	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	02:52:39.0	85.6	93.3	0.8	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10	03:22:26.9	30.740S	177.380W	33.0N				SZGRF

Kermadec Islands, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	03:42:20.0	156.2	16.5					
	e PKPab	Z	03:42:45.7							
RUE	e PKPdf	Z	03:42:21.1	156.8	25.0					
NRDL	e PKPdf	Z	03:42:21.5	157.6	17.1					
	e PKPab	Z	03:42:51.3							
CLL	e PKPdf	Z	03:42:21.9	158.0	24.5					
	e PKPab	Z	03:42:53.5							
IBBN	e PKPab	Z	03:42:54.4	158.1	11.9					
CLZ	e PKPdf	Z	03:42:22.5	158.1	18.1					
	e PKPab	Z	03:42:54.5							
BRG	e PKPdf	Z	03:42:22.5	158.2	27.0					
	e PKPab	Z	03:42:54.3							
MOX	e PKPdf	Z	03:42:23.4	159.0	22.0					
	e PKPab	Z	03:42:57.9							
WERD	e PKPdf	Z	03:42:23.5	159.0	23.8					
	e PKPab	Z	03:42:58.1							

BUG	e PKPdf	Z	03:42:23.7	159.0	11.2
	e PKPab	Z	03:42:57.8		
GUNZ	e PKPdf	Z	03:42:23.7	159.1	24.0
	e PKPab	Z	03:42:58.6		
GRA1	e PKPdf	Z	03:42:23.6	160.0	22.0
	e PKPab	Z	03:43:02.8		
TNS	e PKPdf	Z	03:42:24.2	160.0	14.8
	e PKPab	Z	03:43:02.5		
GEC2	e PKPdf	Z	03:42:23.4	160.0	28.9
	e PKPab	Z	03:43:02.5		
WLF	e PKPdf	Z	03:42:24.2	160.9	9.3
	e PKPab	Z	03:43:06.9		
STU	e PKPab	Z	03:43:07.9	161.3	17.9
FUR	e PKPab	Z	03:43:08.7	161.4	23.9
BFO	e PKPab	Z	03:43:10.4	161.9	16.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10	03:50: 3.4	51.000N	178.750E	33.0N	5.5	5.1		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:01:44.2	74.6	7.5	1.3	146	5.9		
RUE	e P	Z	04:01:50.2	75.8	9.7					
NRDL	e P	Z	04:01:52.2	76.1	7.3	1.2	83	5.7		
IBBN	e P	Z	04:01:54.5	76.4	5.8	1.2	284	6.3		
CLZ	e P	Z	04:01:56.2	76.7	7.5	1.2	122	5.9		
CLL	i P	+ Z	04:01:56.7	77.0	9.2	1.4	44	5.4		
	i		04:02:02.4							
	i pP	Z	04:02:10.0							
	i sP	Z	04:02:15.3							
	e PP	Z	04:04:56.8							
	e S	E	04:11:46.2							
	e PS	N	04:12:32.6							
	e SS	N	04:17:16.7							
	e L	Z	04:42:05.2			20.2	1471			
BUG	e P	Z	04:01:59.0	77.3	5.5	1.3	97	5.8		
BRG	e P	Z	04:01:58.9	77.3	9.7	1.2	39	5.4		
MOX	e P	Z	04:02:01.6	77.8	8.2	1.2	42	5.4		
WERD	e P	Z	04:02:02.5	77.9	8.7	1.4	34	5.3		
GUNZ	e P	Z	04:02:03.1	78.0	8.7	1.3	40	5.4		
TNS	e P	Z	04:02:05.5	78.4	6.2	1.3	58	5.4		
GRA1	e P	Z	04:02:07.7	78.7	8.0	1.3	109	5.7		
	e PP	Z	04:05:02.6							
	e L	Z	04:40:59.0			21.5	953		5.1	
WLF	e P	Z	04:02:09.7	79.1	4.7	1.3	56	5.3		
GEC2	e P	Z	04:02:10.5	79.3	9.5	1.2	27	5.1		
STU	e P	Z	04:02:12.9	79.8	6.7	1.3	52	5.3		

FUR	e P	Z	04:02:15.5	80.3	8.0	1.3	93	5.6	
BFO	e P	Z	04:02:15.7	80.3	6.1	1.4	48	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10	05:28:29.5	62.537N	25.659W	33.0N	3.7			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:33:39.5	23.8	316.6	0.6	2	3.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10	17:42:42.6	1.440N	96.460E	29.7	5.4	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	17:55:11.6	84.2	94.5	1.0	44	5.6		
	e S	T	18:05:35.1							
BRG	e P	Z	17:55:11.3	84.2	94.9	1.0	20	5.3		
RUE	e P	Z	17:55:12.3	84.4	94.9	1.2	69	5.8		
CLL	e P	Z	17:55:14.6	84.8	94.2	0.9	17	5.3		
	e sP	Z	17:55:24.9							
	e S	N	18:05:39.3							
	e PS	E	18:06:33.0							
	e PPS	E	18:07:02.4							
	e SSS	N	18:14:42.6							
	e SSSS	N	18:17:45.5							
	e L	Z	18:40:31.7			16.1	648			
GUNZ	e P	Z	17:55:16.3	85.1	93.6	1.0	16	5.2		
WERD	e P	Z	17:55:16.2	85.2	93.6	1.0	15	5.2		
NOTT	e P	Z	17:55:17.1	85.2	93.4	1.1	13	5.1		
MOX	e P	Z	17:55:18.5	85.6	93.1	1.3	22	5.1		
	e S	T	18:05:48.5							
FUR	e P	Z	17:55:18.8	85.7	92.6	0.5	27	5.6		
	e S	T	18:05:48.7							
GRA1	e P	Z	17:55:20.0	85.8	92.7	0.9	35	5.5		
	e pP	Z	17:55:28.7							
	e sP	Z	17:55:32.3							
	e S	T	18:05:52.6							
	e L	Z	18:41:10.3			20.7	887		5.1	
CLZ	e P	Z	17:55:22.7	86.5	92.2	1.1	28	5.3		
BSEG	e P	Z	17:55:23.4	86.6	92.3	1.1	44	5.5		
	e S	T	18:05:58.4							
NRDL	e P	Z	17:55:24.0	86.6	92.0	1.2	32	5.3		
STU	e P	Z	17:55:25.8	87.1	91.1	0.9	16	5.2		
TNS	e P	Z	17:55:28.7	87.6	90.6	0.9	16	5.3		

	e S	T	18:06:12.8						
BFO	e P	Z	17:55:28.4	87.7	90.4	1.1	14	5.2	
IBBN	e P	Z	17:55:30.8	88.1	90.1	1.1	70	5.9	
BUG	e P	Z	17:55:32.1	88.4	89.7	1.0	40	5.7	
	e S	T	18:06:15.8						
WLF	e P	Z	17:55:36.2	89.1	88.8	1.2	32	5.4	
	e S	T	18:06:22.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/10								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKP	Z	19:51:02.2							
GRA1	e PKP	Z	19:50:52.2							
GRA1	e		19:51:00.5							
NOTT	e PKP	Z	19:50:59.1							
WLF	e PKP	Z	19:51:02.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/11	03:47:55.6	1.550N	94.820E	29.1	5.0	4.6		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:00:18.4	83.0	95.7	1.1	18	5.2		
BRG	e P	Z	04:00:18.2	83.1	96.1	1.0	7	4.9		
RUE	e P	Z	04:00:20.1	83.3	96.2	1.1	30	5.4		
CLL	e P	Z	04:00:21.2	83.7	95.4	1.3	10	4.9		
GUNZ	e P	Z	04:00:24.0	84.0	94.8	1.0	6	4.8		
WERD	e P	Z	04:00:23.9	84.0	94.8	0.9	5	4.7		
NOTT	e P	Z	04:00:23.9	84.1	94.6	1.2	8	4.8		
MOX	e P	Z	04:00:25.4	84.5	94.3	1.1	7	4.8		
GRA1	e P	Z	04:00:26.9	84.7	93.9	1.1	16	5.2		
	e pP	Z	04:00:35.3							
	e L	Z	04:46:26.5			21.7	250		4.6	
CLZ	e P	Z	04:00:30.0	85.4	93.4	1.7	28	5.2		
BSEG	e P	Z	04:00:30.8	85.5	93.5	1.1	19	5.1		
NRDL	e P	Z	04:00:31.7	85.6	93.3	1.4	28	5.2		
TNS	e P	Z	04:00:36.4	86.5	91.8	1.5	16	4.9		
BFO	e P	Z	04:00:35.6	86.5	91.6	1.0	6	4.7		
IBBN	e P	Z	04:00:38.6	87.0	91.4					
BUG	e P	Z	04:00:39.4	87.3	90.9	1.0	20	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/11	13:18:51.4	8.963S	112.175E	60.0G			4.4	NEIC-M

Jawa, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SP	Z	13:46:06.1	103.9	87.5					
	e SS	E	13:51:59.6							
	e L	Z	14:28:41.3			20.3	119		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/11	17:37: 1.1	2.410N	95.810E	33.0N	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	17:49:23.2	83.0	94.4	1.1	19	5.2		
BRG	e P	Z	17:49:22.9	83.0	94.8	1.6	17	5.0		
RUE	e P	Z	17:49:23.9	83.2	94.9	0.6	21	5.5		
CLL	e P	Z	17:49:25.6	83.6	94.1	1.1	5	4.7		
GUNZ	e P	Z	17:49:28.0	84.0	93.5	1.0	8	4.9		
WERD	e P	Z	17:49:27.9	84.0	93.5	1.0	6	4.8		
NOTT	e P	Z	17:49:28.6	84.1	93.3	1.1	5	4.7		
MOX	e P	Z	17:49:30.2	84.5	93.0	1.0	6	4.8		
GRA1	e P	Z	17:49:31.7	84.7	92.6	1.0	20	5.3		
CLZ	e P	Z	17:49:34.4	85.3	92.1	1.0	11	5.1		
BSEG	e P	Z	17:49:35.2	85.4	92.2	0.9	10	5.0		
NRDL	e P	Z	17:49:35.9	85.5	91.9	2.5	44	5.3		
TNS	e P	Z	17:49:40.4	86.5	90.5	1.1	11	4.9		
BFO	e P	Z	17:49:40.0	86.5	90.3	0.9	5	4.7		
IBBN	e P	Z	17:49:42.1	86.9	90.1	1.0	15	5.1		
BUG	e P	Z	17:49:43.8	87.2	89.6	1.2	19	5.1		
WLF	e P	Z	17:49:48.0	87.9	88.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/11	23:30: 5.3	24.000S	169.250E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	23:49:40.9	146.0	42.7					
BSEG	e PKPbc	Z	23:49:41.2	146.2	36.1					
BRG	e PKPbc	Z	23:49:44.1	147.1	44.6					
CLL	e PKPbc	Z	23:49:44.1	147.2	42.7					
NRDL	e PKPbc	Z	23:49:45.2	147.4	37.1					
CLZ	e PKPbc	Z	23:49:46.1	147.8	38.2					
WERD	e PKPbc	Z	23:49:47.1	148.1	42.6					
GUNZ	e PKPbc	Z	23:49:47.8	148.1	42.7					
IBBN	e PKPbc	Z	23:49:47.8	148.4	33.6					

GEC2	e PKPbc	Z	23:49:48.4	148.6	46.5
NOTT	e PKPbc	Z	23:49:48.3	148.6	43.0
GRA1	e PKPbc	Z	23:49:49.9	149.1	41.8
TNS	e PKPbc	Z	23:49:51.6	149.8	36.7
FUR	e PKPbc	Z	23:49:52.6	150.2	43.6
STU	e PKPbc	Z	23:49:53.9	150.7	39.5
WLF	e PKPbc	Z	23:49:55.5	151.1	33.4
BFO	e PKPbc	Z	23:49:54.8	151.4	38.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	00:54: 0.4	1.181S	101.044E	33.0N	4.7			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:07:00.6	90.8	109.3	1.0	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	02:47:51.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	04:17:11.3	51.860N	143.730E	33.0N	5.8	5.4		SZGRF

Sakhalin Island, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:28:05.4	67.3	29.1	2.6	473	6.3		
	e PP	Z	04:30:34.1							
RUE	e P	Z	04:28:06.6	67.5	30.8	1.0	119	6.1		
	e S	T	04:37:03.6							
NRDL	e P	Z	04:28:13.5	68.6	28.7	1.1	70	5.8		
	e PP	Z	04:30:45.1							
	e S	T	04:37:16.8							
CLL	e P	Z	04:28:14.0	68.8	30.1	1.0	120	6.1		
	e S	E	04:37:17.2							
	e ScS	N	04:38:22.1							
	e SS	N	04:42:02.6							
	e SSS	E	04:44:49.7							
BRG	e P	Z	04:28:14.7	68.9	30.6	1.1	48	5.6		
	e PP	Z	04:30:48.0							
	e S	T	04:37:18.5							
CLZ	e P	Z	04:28:17.0	69.1	28.7	1.0	104	6.0		

	e	S	T	04:37:24.5					
IBBN	e	P	Z	04:28:18.6	69.5	27.3	1.0	71	5.7
	e	PP	Z	04:30:52.4					
	e	S	T	04:37:25.7					
WERD	e	P	Z	04:28:20.7	69.7	29.6	1.2	82	5.7
MOX	e	P	Z	04:28:20.9	69.8	29.2	1.2	85	5.7
	e	S	T	04:37:28.0					
GUNZ	e	P	Z	04:28:21.2	69.8	29.6	1.2	69	5.7
NOTT	e	P	Z	04:28:24.5	70.4	29.4	1.1	57	5.6
BUG	e	P	Z	04:28:24.1	70.4	26.9	1.0	99	5.9
	e	S	T	04:37:38.1					
GEC2	e	P	Z	04:28:26.5	70.7	30.1	1.2	45	5.5
	e	S	T	04:37:43.3					
GRA1	e	P	Z	04:28:27.2	70.7	28.8	1.0	131	6.0
	e	PP	Z	04:31:01.7					
	e	S	T	04:37:44.5					
	e	L	Z	05:02:29.7			18.2	2133	5.4
TNS	e	P	Z	04:28:29.1	71.1	27.3	1.1	69	5.7
	e	S	T	04:37:46.5					
FUR	e	P	Z	04:28:35.0	72.1	28.6	1.4	169	6.0
	e	PP	Z	04:31:13.2					
STU	e	P	Z	04:28:35.3	72.2	27.5	1.1	70	5.7
	e	PP	Z	04:31:15.2					
	e	S	T	04:37:58.4					
WLF	e	P	Z	04:28:36.1	72.3	25.9	1.1	33	5.4
	e	S	T	04:38:00.9					
BFO	e	P	Z	04:28:39.1	72.8	27.0	1.1	72	5.7
	e	S	T	04:38:05.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	11:17:58.2	48.210N	154.520E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e	P	Z 11:29:37.7	74.8	23.7	0.9	6	4.6		
CLL	e	P	Z 11:29:39.3	75.2	25.4	0.8	10	5.0		
BRG	e	P	Z 11:29:40.1	75.3	25.9	0.8	4	4.6		
CLZ	e	P	Z 11:29:41.4	75.4	23.8	1.2	16	5.0		
WERD	e	P	Z 11:29:45.4	76.1	24.9	0.9	4	4.6		
MOX	e	P	Z 11:29:45.3	76.1	24.5	0.7	4	4.6		
GUNZ	e	P	Z 11:29:45.7	76.2	24.9	0.8	4	4.6		
NOTT	e	P	Z 11:29:49.0	76.8	24.7	1.0	5	4.6		
GRA1	e	P	Z 11:29:50.9	77.1	24.1	1.0	16	5.1		
GEC2	e	P	Z 11:29:51.6	77.2	25.6	0.6	4	4.7		
TNS	e	P	Z 11:29:52.2	77.3	22.4	0.8	10	5.0		
STU	e	P	Z 11:29:58.8	78.5	22.8	1.0	10	4.8		
BFO	e	P	Z 11:30:01.0	79.1	22.2	1.0	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	11:51:25.8							
CLL	e PKPbc	Z	11:51:25.6							
CLZ	e PKPbc	Z	11:51:26.0							
GRA1	e PKPbc	Z	11:51:31.2							
IBBN	e PKPbc	Z	11:51:26.0							
NRDL	e PKPbc	Z	11:51:24.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	15:42: 2.2	34.412N	116.361W	33.0N	5.0	5.3		SZGRF

Southern California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	15:54:18.5	84.6	319.7					
	i sP	Z	15:54:25.2			1.1	11			
	e		15:54:49.8							
	e S	E	16:04:57.6							
	e L	Z	16:31:39.2			17.5	877			
GRA1	e P	Z	15:54:29.4	83.9	318.9	1.9	18	5.0		
	e		15:54:56.0							
	e S	T	16:05:04.9							
	e L	Z	16:32:09.8			18.8	1339		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	19:15: 0.4	15.951S	173.941W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	19:34:29.7	143.9	7.1					
CLL	e PKPbc	Z	19:34:29.9	144.2	11.5					
BUG	e PKPbc	Z	19:34:31.2	144.5	2.0					
MOX	e PKPbc	Z	19:34:33.1	145.0	9.3					
WERD	e PKPbc	Z	19:34:33.1	145.1	10.5					
GUNZ	e PKPbc	Z	19:34:33.5	145.2	10.6					
TNS	e PKPbc	Z	19:34:35.3	145.7	4.1					
NOTT	e PKPbc	Z	19:34:35.9	145.8	10.4					
GRA1	e PKPbc	Z	19:34:36.2	146.0	8.9					
WLF	e PKPbc	Z	19:34:37.5	146.3	0.2					
GEC2	e PKPbc	Z	19:34:37.6	146.5	13.4					

BFO	e PKPbc	Z	19:34:40.5	147.6	4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	19:26:14.2	57.350S	23.450W	33.0N		5.6		SZGRF

South Sandwich Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pdiff	Z	19:41:00.3	108.9	197.5					
	e PP	Z	19:45:05.3							
	e SKSac	R	19:51:05.4							
	e SP	Z	19:54:15.8							
	e L	Z	20:26:33.3			19.0	2253		5.8	
FUR	e Pdiff	Z	19:41:01.7	109.4	199.0					
	e PP	Z	19:45:06.7							
	e SKSac	R	19:51:07.8							
	e SP	Z	19:54:32.1							
STU	e Pdiff	Z	19:40:55.7	109.5	198.0					
	e PP	Z	19:45:09.2							
	e SP	Z	19:54:25.3							
WLF	e Pdiff	Z	19:41:05.0	109.8	196.5					
	e PP	Z	19:45:15.1							
	e SKSac	R	19:51:06.5							
	e SP	Z	19:54:15.6							
GEC2	e Pdiff	Z	19:41:06.7	110.5	200.4					
	e PP	Z	19:45:15.3							
	e SKSac	R	19:51:14.4							
	e SP	Z	19:54:40.6							
	e L	Z	20:29:01.9			18.8	1300		5.5	
TNS	e Pdiff	Z	19:41:08.4	110.7	197.7					
	e PP	Z	19:45:20.9							
	e SKSac	R	19:51:17.8							
	e SP	Z	19:54:41.1							
GRA1	e Pdiff	Z	19:41:09.1	110.8	199.2					
	e PP	Z	19:45:17.2							
	e SKSac	R	19:51:16.0							
	e SP	Z	19:54:41.4							
	e SS	R	20:00:42.3							
	e SSS	T	20:05:00.6							
	e L	Z	20:30:26.7			19.2	828		5.3	
NOTT	e Pdiff	Z	19:41:10.2	111.1	199.7					
	e PP	Z	19:45:20.9							
	e SKSac	R	19:51:17.5							
	e SP	Z	19:54:44.4							
BUG	e Pdiff	Z	19:41:07.5	111.7	197.3					
	e PP	Z	19:45:26.7							
	e SKSac	R	19:51:18.9							
	e SP	Z	19:54:49.5							

MOX	e Pdiff	Z	19:41:18.3	111.8	199.5				
	e PP	Z	19:45:26.3						
	e SKSac	R	19:51:20.2						
	e SP	Z	19:54:50.3						
BRG	e Pdiff	Z	19:41:15.2	112.5	200.8				
	e PP	Z	19:45:33.9						
	e SKSac	R	19:51:22.1						
	e SP	Z	19:54:57.4						
IBBN	e Pdiff	Z	19:41:11.3	112.6	197.6				
	e PP	Z	19:45:34.7						
	e SP	Z	19:54:56.0						
CLZ	e Pdiff	Z	19:41:12.1	112.7	199.0				
	e PP	Z	19:45:34.3						
	e SKSac	R	19:51:22.4						
	e SP	Z	19:54:57.5						
	e L	Z	20:28:16.8			19.7	2804	5.9	
CLL	e Pdiff	Z	19:41:18.7	112.7	200.3				
	e PP	Z	19:45:35.7						
	e SKSac	R	19:51:21.9						
	e SP	Z	19:54:58.5						
	e SS	E	20:01:07.0						
NRDL	e Pdiff	Z	19:41:21.5	113.2	198.9				
	e PP	Z	19:45:37.3						
	e SKSac	R	19:51:20.7						
	e SP	Z	19:55:01.0						
RUE	e Pdiff	Z	19:41:24.4	114.0	200.9				
	e PP	Z	19:45:43.5						
	e SKSac	R	19:51:27.0						
	e SP	Z	19:55:17.3						
HLG	e Pdiff	Z	19:41:25.9	114.4	197.9				
	e PP	Z	19:45:47.0						
	e SP	Z	19:55:21.2						
BSEG	e Pdiff	Z	19:41:25.6	114.6	199.3				
	e PP	Z	19:45:47.0						
	e SKSac	R	19:51:28.9						
	e SP	Z	19:55:05.6						
RGN	e Pdiff	Z	19:41:30.9	115.8	201.0				
	e PP	Z	19:45:53.2						
	e SP	Z	19:55:17.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	21:16:17.5	45.110N	7.396E	10.0G			3.0	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	21:17:02.0	2.8	219.2					2.8
	e Sg	N	21:17:42.4							

BFO	e Pn	Z	21:17:07.0	3.3	191.6				3.0
WTTA	e Pn	Z	21:17:13.7	3.6	235.3				2.7
KBA	e Pn	Z	21:17:26.8	4.6	246.7				
TNS	e Pn	Z	21:17:33.5	5.2	188.3				
GRA1	e Sg	E	21:19:04.6	5.3	210.9				3.5
MOA	e Pn	Z	21:17:37.9	5.5	242.5				
GEC2	e Pn	Z	21:17:39.8	5.7	231.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/12	22:21:10.9	53.328N	160.583E	33.0N	5.1			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:32:42.4	73.8	18.5	2.2	43	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/13	03:58: 8.0	18.430N	78.330W	44.5	5.1	4.7		SZGRF

Jamaica region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	04:09:33.6	73.0	278.4	2.0	74	5.5		
TNS	e P	Z	04:09:39.0	73.9	279.7	1.4	23	5.0		
BFO	e P	Z	04:09:40.8	74.2	280.1	1.2	17	4.9		
BSEG	e P	Z	04:09:41.6	74.4	280.0	1.3	33	5.2		
CLZ	e P	Z	04:09:46.1	74.8	280.7	1.3	24	5.0		
GRA1	e P	Z	04:09:49.9	75.8	281.8	1.2	12	4.9		
	e pP	Z	04:10:02.6							
	e L	Z	04:36:25.3			21.9	377		4.7	
MOX	e P	Z	04:09:50.1	75.8	281.9	1.7	23	5.0		
WERD	e P	Z	04:09:52.9	76.3	282.4	2.0	38	5.2		
NOTT	e P	Z	04:09:53.1	76.3	282.5	1.1	11	4.9		
CLL	e P	Z	04:09:54.2	76.5	282.8	1.7	25	5.1		
BRG	e P	Z	04:09:58.3	77.2	283.6	1.7	16	4.9		
GEC2	e P	Z	04:09:59.8	77.5	283.8	1.5	22	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/13	07:02:43.3	4.440N	127.530E	33.0N		5.4		SZGRF

Talaud Islands, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SP	Z	07:29:25.1	100.0	67.4					
RUE	e Pdiff	Z	07:16:26.7	100.6	68.2					
	e SKSac	R	07:27:06.4							

	e	SP	Z	07:29:31.4					
BRG	e	Pdiff	Z	07:16:30.4	101.1	68.6			
	e	SKSac	R	07:27:05.6					
	e	SP	Z	07:29:38.6					
CLL	e	Pdiff	Z	07:16:32.4	101.4	67.7			
	e	SP	Z	07:29:42.7					
BSEG	e	Pdiff	Z	07:16:36.1	101.9	65.0			
	e	SKSac	R	07:27:13.3					
	e	SP	Z	07:29:48.6					
GEC2	e	Pdiff	Z	07:16:35.1	101.9	68.8			
	e	SKSac	R	07:27:13.7					
	e	SP	Z	07:29:46.8					
MOX	e	Pdiff	Z	07:16:39.3	102.5	66.7			
	e	SKSac	R	07:27:15.5					
	e	SP	Z	07:29:54.0					
NOTT	e	Pdiff	Z	07:16:36.6	102.5	67.3			
	e	SKSac	R	07:27:15.9					
	e	SP	Z	07:29:55.0					
NRDL	e	Pdiff	Z	07:16:36.5	102.6	65.1			
	e	SKSac	R	07:27:09.5					
	e	SP	Z	07:29:54.6					
CLZ	e	Pdiff	Z	07:16:38.2	102.7	65.4			
	e	SP	Z	07:29:56.9					
HLG	e	Pdiff	Z	07:16:38.7	103.1	62.8			
	e	SP	Z	07:30:00.3					
GRA1	e	Pdiff	Z	07:16:38.0	103.1	66.6			
	e	PP	Z	07:21:03.5					
	e	SKSac	R	07:27:15.9					
	e	SP	Z	07:30:00.3					
	e	L	Z	08:11:24.7			21.4	1133	5.4
FUR	e	Pdiff	Z	07:16:42.0	103.7	67.0			
	e	SKSac	R	07:27:15.9					
	e	SP	Z	07:30:06.6					
IBBN	e	Pdiff	Z	07:16:46.3	104.0	63.1			
	e	SP	Z	07:30:09.4					
TNS	e	Pdiff	Z	07:16:45.2	104.5	64.2			
	e	SKSac	R	07:27:26.1					
	e	SP	Z	07:30:17.2					
BUG	e	Pdiff	Z	07:16:45.4	104.6	62.9			
	e	SKSac	R	07:27:23.2					
	e	SP	Z	07:30:18.4					
STU	e	Pdiff	Z	07:16:46.0	104.7	65.1			
	e	SKSac	R	07:27:25.8					
	e	SP	Z	07:30:18.6					
BFO	e	Pdiff	Z	07:16:50.0	105.4	64.5			
	e	SKSac	R	07:27:25.3					
	e	SP	Z	07:30:26.6					
WLF	e	Pdiff	Z	07:16:55.5	106.1	62.4			
	e	SP	Z	07:30:34.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/13	19:17:47.8	37.125N	134.253E	33.0N	4.4			SZGRF

Sea of Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:29:52.5	79.7	42.8	1.0	5	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/13	19:28:25.5	9.970N	93.490E	33.0N	5.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:40:08.6	75.7	91.7	2.1	64	5.4		
GEC2	e P	Z	19:40:09.2	75.8	91.0	0.9	15	5.2		
RUE	e P	Z	19:40:09.4	75.8	92.0	1.1	42	5.5		
RGN	e P	Z	19:40:09.6	76.2	92.2	1.9	558	6.4		
CLL	e P	Z	19:40:11.7	76.3	91.1	1.1	10	4.8		
GUNZ	e P	Z	19:40:14.0	76.7	90.4	2.4	66	5.3		
WERD	e P	Z	19:40:14.3	76.7	90.4	1.2	12	4.9		
NOTT	e P	Z	19:40:15.4	76.8	90.1	2.6	100	5.5		
MOX	e P	Z	19:40:16.7	77.2	89.9	1.7	30	5.1		
FUR	e P	Z	19:40:17.7	77.4	89.1	0.7	18	5.3		
GRA1	e P	Z	19:40:18.7	77.4	89.4	1.3	27	5.2		
CLZ	e P	Z	19:40:21.2	77.9	89.2	0.9	12	5.0		
BSEG	e P	Z	19:40:21.7	77.9	89.6	1.1	34	5.4		
NRDL	e P	Z	19:40:22.0	78.1	89.1	2.3	124	5.6		
TNS	e P	Z	19:40:27.5	79.2	87.4	1.1	9	4.7		
BFO	e P	Z	19:40:27.7	79.4	86.9	1.3	10	4.7		
IBBN	e P	Z	19:40:29.7	79.5	87.2	1.5	55	5.3		
BUG	e P	Z	19:40:33.0	79.9	86.7	0.9	15	4.9		
WLF	e P	Z	19:40:35.7	80.7	85.5	1.9	65	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/13	20:00: 2.6	2.690N	94.410E	29.4	5.6	5.1		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:12:19.1	81.9	95.2	1.3	83	5.7		
BRG	e P	Z	20:12:19.1	81.9	95.7	1.4	50	5.5		
RUE	e P	Z	20:12:20.2	82.2	95.8	1.3	106	5.8		
CLL	e P	Z	20:12:21.9	82.5	95.0	2.3	130	5.8		
GUNZ	e P	Z	20:12:24.2	82.9	94.4	1.3	34	5.4		

WERD	e P	Z	20:12:24.2	82.9	94.4	1.5	41	5.4	
NOTT	e P	Z	20:12:25.0	83.0	94.2	1.8	72	5.6	
MOX	e P	Z	20:12:26.5	83.4	93.9	1.7	75	5.6	
FUR	e P	Z	20:12:26.5	83.4	93.3	1.3	43	5.5	
GRA1	e P	Z	20:12:28.0	83.5	93.5	1.4	76	5.7	
	e pP	Z	20:12:36.5						
	e L	Z	20:55:32.8			18.0	713		5.1
GRFO	e P	Z	20:12:28.0	83.5	93.5	1.4	67	5.7	
CLZ	e P	Z	20:12:30.9	84.2	93.0	1.2	45	5.6	
BSEG	e P	Z	20:12:31.6	84.3	93.2	1.4	58	5.6	
NRDL	e P	Z	20:12:32.1	84.4	92.9	1.5	84	5.7	
STU	e P	Z	20:12:33.8	84.8	91.8	2.1	102	5.7	
TNS	e P	Z	20:12:36.8	85.4	91.4	1.1	37	5.5	
BFO	e P	Z	20:12:36.4	85.4	91.1	1.3	25	5.3	
IBBN	e P	Z	20:12:39.2	85.8	91.0	1.5	85	5.7	
BUG	e P	Z	20:12:40.5	86.1	90.6	1.2	49	5.5	
WLF	e P	Z	20:12:44.4	86.8	89.6	1.4	41	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/13	22:44:35.6	19.450S	68.700W	113.7				SZGRF

Chile-Bolivia border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z	22:57:47.3	95.4	246.1					
	e PP	Z	23:01:37.3							
	e SKSac	R	23:08:16.5							
	e SP	Z	23:10:17.9							
	e P'P'df	Z	23:22:51.6							
BFO	e Pdiff	Z	22:57:50.2	96.2	247.6					
	e PP	Z	23:01:42.3							
	e SKSac	R	23:08:21.2							
	e SP	Z	23:10:26.6							
	e P'P'df	Z	23:22:48.7							
BUG	e Pdiff	Z	22:57:53.1	96.8	247.1					
	e PP	Z	23:01:48.3							
	e SKSac	R	23:08:23.8							
	e SP	Z	23:10:31.6							
	e P'P'df	Z	23:22:48.5							
STU	e Pdiff	Z	22:57:53.5	96.9	248.2					
	e PP	Z	23:01:48.2							
	e SKSac	R	23:08:25.4							
	e SP	Z	23:10:33.9							
	e P'P'df	Z	23:22:48.0							
TNS	e Pdiff	Z	22:57:54.4	97.0	247.8					
	e PP	Z	23:01:49.9							
	e SKSac	R	23:08:27.2							
	e SP	Z	23:10:35.6							

	e P’P’df	Z	23:22:48.4		
IBBN	e Pdiff	Z	22:57:56.1	97.4	247.6
	e PP	Z	23:01:53.1		
	e SKSac	R	23:08:28.8		
	e SP	Z	23:10:38.0		
	e P’P’df	Z	23:22:47.2		
FUR	e Pdiff	Z	22:57:58.9	98.0	249.7
	e PP	Z	23:01:57.2		
	e SKSac	R	23:08:30.0		
	e SP	Z	23:10:45.0		
	e SS	T	23:15:59.9		
	e P’P’df	Z	23:22:46.5		
HLG	e Pdiff	Z	22:57:59.3	98.2	247.9
	e PP	Z	23:01:59.6		
	e SKSac	R	23:08:31.8		
	e SP	Z	23:10:45.9		
	e P’P’df	Z	23:22:46.2		
GRFO	e Pdiff	Z	22:58:01.2	98.5	249.8
GRA1	e Pdiff	Z	22:58:01.2	98.5	249.8
	e PP	Z	23:02:00.7		
	e pPP	Z	23:02:27.4		
	e SKSac	R	23:08:34.1		
	e Sdiff	T	23:09:20.3		
	e SP	Z	23:10:51.4		
	e PKKPbc	Z	23:14:30.6		
	e pPKKPbc	Z	23:14:59.8		
	e SS	R	23:16:00.9		
	e P’P’df	Z	23:22:45.3		
CLZ	e Pdiff	Z	22:58:02.3	98.7	249.5
	e PP	Z	23:02:03.3		
	e SKSac	R	23:08:35.0		
	e SP	Z	23:10:53.4		
	e P’P’df	Z	23:22:45.1		
MOX	e Pdiff	Z	22:58:03.7	99.0	250.2
	e PP	Z	23:02:05.6		
	e pPP	Z	23:02:32.1		
	e SKSac	R	23:08:37.1		
	e SP	Z	23:10:57.2		
	e SS	T	23:16:23.2		
	e P’P’df	Z	23:22:44.1		
NOTT	e Pdiff	Z	22:58:03.9	99.1	250.5
	e PP	Z	23:02:05.2		
	e SKSac	R	23:08:35.3		
	e SP	Z	23:10:58.1		
	e P’P’df	Z	23:22:43.9		
GUNZ	e Pdiff	Z	22:58:05.6	99.4	250.7
	e PP	Z	23:02:08.2		
	e P’P’df	Z	23:22:44.0		
WERD	e Pdiff	Z	22:58:05.4	99.4	250.7

	e PP	Z	23:02:08.2					
	e P’P’df	Z	23:22:43.4					
BSEG	e Pdiff	Z	22:58:05.3	99.4	249.8			
	e PP	Z	23:02:08.4					
	e SKSac	R	23:08:39.0					
	e SP	Z	23:10:59.2					
	e P’P’df	Z	23:22:43.8					
CLL	i Pdiff	Z	22:58:10.1	100.1	251.4	1.9	269	
	i		22:58:15.6			1.5	248	
	i		22:58:20.7			0.8	121	
	i		22:58:23.7			1.0	215	
	e pPdif	Z	22:58:37.0					
	e		22:58:48.0					
	e		22:58:57.7					
	i PP	Z	23:02:14.4					
	e pPP	Z	23:02:54.8					
	e SKSac	E	23:08:37.7					
	e		23:09:14.9					
	e Sdiff	E	23:09:32.7					
	e SP	Z	23:11:06.0					
	i PKKPab	Z	23:14:50.4			2.5	427	
	e pPKKPab	Z	23:15:28.3					
	e SS	N	23:16:22.5					
	e SKKP	Z	23:17:25.0					
	e		23:17:45.0					
	e PKPPKP	Z	23:22:38.5			3.5	1315	
	e pPKPPKP	Z	23:23:19.0					
	e L	Z	23:39:22.3			23.8	239749	
BRG	e Pdiff	Z	22:58:10.4	100.5	252.0			
	e PP	Z	23:02:16.9					
	e SKSac	R	23:08:42.1					
	e SP	Z	23:11:12.6					
	e SS	T	23:16:35.3					
	e P’P’df	Z	23:22:41.4					
RUE	e Pdiff	Z	22:58:12.0	100.9	252.2			
	e PP	Z	23:02:19.7					
	e SKSac	R	23:08:45.5					
	e SP	Z	23:11:16.1					
RGN	e Pdiff	Z	22:58:14.0	101.3	252.2			
	e PP	Z	23:02:22.6					
	e SKSac	R	23:08:48.1					
	e SP	Z	23:11:19.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	01:22: 9.8	20.580S	174.150W	155.6				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	01:41:30.0	146.5	7.6					
RUE	e PKPdf	Z	01:41:33.7	147.5	13.9					
NRDL	e PKPdf	Z	01:41:33.5	147.9	7.5					
IBBN	e PKPdf	Z	01:41:35.1	148.2	3.4					
	e pPKPbc	Z	01:42:18.0							
CLZ	e PKPdf	Z	01:41:35.0	148.5	8.1					
	e pPKPbc	Z	01:42:18.3							
CLL	e PKPdf	Z	01:41:34.9	148.8	13.0					
	e PKPbc	Z	01:41:38.0							
	e pPKPbc	Z	01:42:18.6							
BRG	e PKPdf	Z	01:41:35.8	149.0	14.8					
	e PKPbc	Z	01:41:38.9							
	e pPKPbc	Z	01:42:19.2							
BUG	e PKPdf	Z	01:41:35.8	149.1	2.6					
	e PKPbc	Z	01:41:38.9							
MOX	e PKPdf	Z	01:41:36.7	149.6	10.7					
	e PKPbc	Z	01:41:40.3							
WERD	e PKPdf	Z	01:41:36.9	149.7	12.0					
	e PKPbc	Z	01:41:40.7							
	e pPKPbc	Z	01:42:21.3							
GUNZ	e PKPdf	Z	01:41:37.1	149.8	12.1					
	e PKPbc	Z	01:41:41.0							
TNS	e PKPdf	Z	01:41:38.1	150.3	4.9					
	e PKPbc	Z	01:41:42.3							
NOTT	e PKPdf	Z	01:41:37.8	150.3	11.9					
	e PKPbc	Z	01:41:42.5							
GRA1	e PKPdf	Z	01:41:38.3	150.6	10.3					
	e PKPbc	Z	01:41:43.4							
WLF	e PKPdf	Z	01:41:39.4	150.9	0.6					
	e PKPbc	Z	01:41:44.3							
	e pPKPbc	Z	01:42:25.4							
GEC2	e PKPdf	Z	01:41:38.9	151.0	15.3					
	e PKPbc	Z	01:41:44.1							
	e pPKPbc	Z	01:42:24.2							
STU	e PKPdf	Z	01:41:40.4	151.7	6.6					
	e PKPbc	Z	01:41:45.6							
FUR	e PKPdf	Z	01:41:40.3	152.1	10.9					
	e PKPbc	Z	01:41:46.5							
BFO	e PKPdf	Z	01:41:40.7	152.2	5.0					
	e PKPbc	Z	01:41:46.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	04:26:17.2	3.756N	97.673E	33.0N	4.9			SZGRF

Northern Sumatera, Indonesia

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

	GRA1	e P	Z	04:38:48.9	84.8	90.3	0.9	7	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	06:15:20.6	2.139N	94.788E	29.8	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	06:27:49.6	84.2	93.5	1.0	6	4.7		
	e pP	Z	06:27:58.2			1.0	6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	06:54: 1.3	49.430N	151.770E	33.0N	5.3			SZGRF

Northwest of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:05:22.4	71.7	25.3	1.0	19	5.2		
RUE	e P	Z	07:05:24.9	72.1	27.2	0.5	38	5.8		
NRDL	e P	Z	07:05:30.4	73.0	24.9	1.1	14	5.0		
CLL	e P	Z	07:05:31.7	73.3	26.6	0.8	37	5.5		
BRG	e P	Z	07:05:32.5	73.4	27.1	1.0	16	5.0		
CLZ	e P	Z	07:05:33.8	73.5	25.0	0.8	22	5.2		
IBBN	e P	Z	07:05:35.2	73.8	23.5	1.3	42	5.3		
WERD	e P	Z	07:05:37.8	74.3	26.0	0.9	14	5.0		
MOX	e P	Z	07:05:37.8	74.3	25.6	0.9	17	5.1		
GUNZ	e P	Z	07:05:38.2	74.3	26.1	0.7	17	5.2		
BUG	e P	Z	07:05:39.9	74.7	23.1	0.7	14	5.1		
NOTT	e P	Z	07:05:41.6	74.9	25.9	0.9	14	5.0		
GRA1	e P	Z	07:05:43.8	75.3	25.3	0.7	47	5.7		
	e PP	Z	07:08:28.8							
GEC2	e P	Z	07:05:43.7	75.3	26.7					
TNS	e P	Z	07:05:44.9	75.5	23.7	0.8	17	5.2		
FUR	e P	Z	07:05:51.4	76.6	25.2	0.6	20	5.4		
STU	e P	Z	07:05:51.5	76.7	24.0	0.4	21	5.6		
BFO	e P	Z	07:05:54.6	77.3	23.4	0.8	16	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	07:31:45.0	35.060N	24.380E	10.0G	4.2			SZGRF

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:35:32.4	15.9	146.3	0.9	35			
FUR	e P	Z	07:35:37.2	16.3	138.6					
NOTT	e P	Z	07:35:47.6	17.3	144.1					

GRA1	e	P	Z	07:35:50.9	17.5	141.7	1.2	155	
BRG	e	P	Z	07:35:50.6	17.5	150.5			
GUNZ	e	P	Z	07:35:52.3	17.6	145.7			
STU	e	P	Z	07:35:52.1	17.7	135.1			
WERD	e	P	Z	07:35:52.8	17.7	145.7			
BFO	e	P	Z	07:35:54.1	17.8	132.3	0.9	18	4.2
MOX	e	P	Z	07:35:57.3	18.1	144.4	1.4	31	
CLL	e	P	Z	07:35:58.5	18.2	148.9	0.7	15	4.2
TNS	e	P	Z	07:36:08.0	19.1	136.6	1.1	31	
CLZ	e	P	Z	07:36:13.2	19.5	143.7	1.0	15	4.1
WLF	e	P	Z	07:36:15.9	19.8	130.8	0.8	21	
NRDL	e	P	Z	07:36:20.8	20.2	144.2	1.2	21	
IBBN	e	P	Z	07:36:28.7	20.9	139.0	0.1	70	
BSEG	e	P	Z	07:36:30.7	21.3	146.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	08:03:10.1	51.095N	177.252E	33.0N	5.2			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	P	Z 08:14:45.1	74.4	8.5	1.2	63	5.5		
RUE	e	P	Z 08:14:51.0	75.5	10.6	0.8	22	5.4		
NRDL	e	P	Z 08:14:52.9	75.8	8.3	1.3	42	5.4		
IBBN	e	P	Z 08:14:55.3	76.2	6.8	1.0	103	5.9		
CLZ	e	P	Z 08:14:57.0	76.5	8.4	1.3	53	5.5		
CLL	e	P	Z 08:14:58.1	76.7	10.1	1.2	13	4.9		
BRG	e	P	Z 08:14:59.7	77.1	10.7	1.3	15	5.0		
BUG	e	P	Z 08:15:00.3	77.1	6.4	1.3	42	5.4		
MOX	e	P	Z 08:15:02.4	77.5	9.2	5.9	910	6.0		
WERD	e	P	Z 08:15:03.3	77.7	9.6	1.2	13	4.9		
GUNZ	e	P	Z 08:15:03.9	77.7	9.6	1.2	14	4.9		
TNS	e	P	Z 08:15:06.3	78.2	7.2	1.5	38	5.2		
NOTT	e	P	Z 08:15:06.9	78.3	9.5	1.5	23	5.0		
GRA1	e	P	Z 08:15:08.4	78.5	8.9	0.9	30	5.3		
WLF	e	P	Z 08:15:10.5	79.0	5.7	0.8	18	5.0		
GEC2	e	P	Z 08:15:11.3	79.1	10.4	1.4	18	4.8		
STU	e	P	Z 08:15:13.7	79.6	7.6	0.5	9	5.0		
FUR	e	P	Z 08:15:15.9	80.0	8.9	0.4	21	5.5		
BFO	e	P	Z 08:15:16.5	80.1	7.0	1.5	20	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	08:53: 6.1	51.349N	179.972E	33.0N	4.6			SZGRF

Rat Islands, Aleutian Islands, United States

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

	GRA1	e P	Z	09:05:04.4	78.5	7.1	1.1	7	4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	09:01:27.8	50.750N	177.180E	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	09:13:07.2	74.7	8.6	1.1	26	5.2		
NRDL	e P	Z	09:13:14.9	76.2	8.4	1.3	19	5.1		
IBBN	e P	Z	09:13:17.4	76.6	6.9	1.2	64	5.6		
CLZ	e P	Z	09:13:18.8	76.8	8.5	1.3	26	5.2		
CLL	e P	Z	09:13:19.6	77.1	10.2	0.3	5	5.2		
BRG	e P	Z	09:13:21.8	77.4	10.8	0.7	5	4.7		
BUG	e P	Z	09:13:22.2	77.5	6.5	1.0	16	5.1		
MOX	e P	Z	09:13:24.6	77.9	9.3	0.9	5	4.6		
WERD	e P	Z	09:13:25.3	78.0	9.7	1.4	10	4.8		
GUNZ	e P	Z	09:13:25.4	78.1	9.7	1.0	4	4.5		
TNS	e P	Z	09:13:28.4	78.6	7.2	0.9	8	4.7		
NOTT	e P	Z	09:13:28.9	78.6	9.6	1.4	11	4.7		
GRA1	e P	Z	09:13:30.3	78.8	9.0	1.4	30	5.1		
GEC2	e P	Z	09:13:33.3	79.4	10.5	1.1	5	4.3		
BFO	e P	Z	09:13:38.5	80.5	7.1	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	09:05: 5.0	14.500S	167.200E	33.0N				GSRC-M

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	09:24:30.4	139.7	37.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	09:30:18.8				4.9			SZGRF

Peru-Brazil border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:43:34.1			1.0	6	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	11:08: 5.8	30.123N	129.626E	33.8	5.3			SZGRF

Kyushu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:20:29.7	83.3	50.0	1.0	22	5.3		
	e pP	Z	11:20:39.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	11:49: 0.8	50.990N	177.890E	33.0N	5.1	5.1		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:00:39.2	74.6	8.1	1.0	40	5.4		
NRDL	e P	Z	12:00:47.1	76.0	7.9	1.2	31	5.3		
IBBN	e P	Z	12:00:49.5	76.4	6.4	1.2	107	5.9		
CLZ	e P	Z	12:00:51.1	76.6	8.0	1.3	36	5.4		
CLL	e P	Z	12:00:51.9	76.9	9.7	1.0	10	4.9		
BRG	e P	Z	12:00:53.9	77.2	10.3	1.2	18	5.1		
BUG	e P	Z	12:00:53.9	77.3	6.0	1.2	22	5.2		
MOX	e P	Z	12:00:56.6	77.7	8.8	1.0	14	5.0		
WERD	e P	Z	12:00:57.5	77.8	9.2	1.2	12	4.9		
GUNZ	e P	Z	12:00:58.1	77.9	9.2	1.1	10	4.8		
TNS	e P	Z	12:01:00.4	78.4	6.8	0.9	17	5.1		
NOTT	e P	Z	12:01:01.1	78.5	9.1	1.4	15	4.9		
GRA1	e P	Z	12:01:02.6	78.7	8.5	0.9	25	5.3		
	e L	Z	12:46:43.2			18.1	724		5.1	
WLF	e P	Z	12:01:04.6	79.1	5.3	1.3	28	5.1		
GEC2	e P	Z	12:01:05.4	79.3	10.1	1.4	11	4.6		
BFO	e P	Z	12:01:10.6	80.3	6.6	1.0	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	15:44:53.9	16.470N	61.525W	33.0N	5.2			SZGRF

Leeward Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	15:55:19.2	63.1	263.9	0.9	27	5.5		
BUG	e P	Z	15:55:25.1	64.0	264.0					
IBBN	e P	Z	15:55:27.8	64.4	263.9	0.6	33	5.7		
BFO	e P	Z	15:55:26.8	64.4	266.3	1.1	7	4.8		
TNS	e P	Z	15:55:29.2	64.7	265.5	2.5	126	5.7		
STU	e P	Z	15:55:30.9	65.0	266.8	0.8	32	5.6		
NRDL	e P	Z	15:55:37.3	65.9	265.8	1.0	16	5.2		
CLZ	e P	Z	15:55:37.8	66.0	266.3	1.0	19	5.3		
BSEG	e P	Z	15:55:39.6	66.1	265.3	1.1	21	5.3		
GRA1	e P	Z	15:55:40.1	66.4	267.9	0.9	14	5.2		
MOX	e P	Z	15:55:41.7	66.7	267.8	0.8	6	4.9		
NOTT	e P	Z	15:55:43.8	67.0	268.5	1.1	8	4.8		
WERD	e P	Z	15:55:44.6	67.1	268.4	0.8	10	5.1		

GUNZ	e P	Z	15:55:44.8	67.1	268.5	0.6	8	5.1
CLL	e P	Z	15:55:47.5	67.6	268.6	0.8	15	5.3
GEC2	e P	Z	15:55:49.9	68.0	270.2	1.3	15	5.0
RUE	e P	Z	15:55:51.0	68.1	268.7	0.7	25	5.5
BRG	e P	Z	15:55:51.2	68.2	269.5	0.9	15	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	17:10:12.6	50.920N	177.970E	33.0N		6.8		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	17:21:46.4	73.8	10.0					
	e S	T	17:31:14.2							
HLG	e P	Z	17:21:51.2	74.6	6.5					
BSEG	e P	Z	17:21:51.5	74.6	8.0					
	e S	T	17:31:24.6							
RUE	e P	Z	17:21:57.6	75.7	10.2					
	e S	T	17:31:34.6							
NRDL	e P	Z	17:21:59.4	76.1	7.8					
	e S	T	17:31:39.3							
	e		17:52:36.8							
IBBN	e P	Z	17:22:01.8	76.4	6.3					
	e S	T	17:31:43.7							
CLZ	e P	Z	17:22:03.4	76.7	8.0					
	e S	T	17:31:47.2							
CLL	i P	+ Z	17:22:04.1	77.0	9.7	1.0	70			
	i PcP	Z	17:22:13.4							
	i pP	Z	17:22:17.9							
	e		17:22:27.4							
	e PP	Z	17:24:47.7							
	e PPP	Z	17:26:51.2							
	e S	E	17:31:48.7							
	e sS	E	17:32:05.1							
	e PS	N	17:32:39.2							
	e PPS	Z	17:32:49.1							
	e		17:33:32.7							
	e		17:34:21.5							
	e SS	N	17:37:04.4							
	e SKPPKP	Z	17:52:32.6							
	e L	Z	17:58:52.7			19.5	53883			
BRG	e P	Z	17:22:06.2	77.3	10.2					
	e S	T	17:31:51.0							
BUG	e P	Z	17:22:06.2	77.3	6.0					
	e S	T	17:31:54.5							
MOX	e P	Z	17:22:09.0	77.8	8.8					
	e S	T	17:31:58.7							
WERD	e P	Z	17:22:09.9	77.9	9.2					

	e		17:52:34.3							
GUNZ	e	P	Z	17:22:10.4	78.0	9.2				
TNS	e	P	Z	17:22:12.8	78.5	6.7				
	e	S	T	17:32:05.2						
NOTT	e	P	Z	17:22:13.5	78.5	9.0				
	e	S	T	17:32:07.8						
	e			17:52:32.6						
GRA1	e	P	Z	17:22:14.9	78.8	8.5				
	e	S	T	17:32:11.2						
	e	SS	R	17:37:44.6						
	e	PKPPKPdf	Z	17:49:06.5						
	e	SKPPKP		17:52:32.1						
	e	L	Z	18:01:06.6			21.9	44277	6.8	
WLF	e	P	Z	17:22:17.0	79.2	5.2				
	e	S	T	17:32:15.2						
GEC2	e	P	Z	17:22:17.8	79.3	10.0				
STU	e	P	Z	17:22:20.2	79.8	7.2				
	e	S	T	17:32:20.0						
FUR	e	P	Z	17:22:22.8	80.3	8.5				
BFO	e	P	Z	17:22:22.9	80.4	6.6				
	e	S	T	17:32:25.2						
	e			17:52:27.3						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	17:48: 7.3	51.110N	178.827E	33.0N	5.1			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:59:42.8	74.5	7.5	1.8	82	5.5		
NRDL	e P	Z	17:59:51.1	76.0	7.3	1.3	15	5.0		
CLZ	e P	Z	17:59:54.8	76.6	7.4	1.4	38	5.3		
CLL	e P	Z	17:59:57.3	76.9	9.1	2.0	39	5.2		
BUG	e P	Z	17:59:57.9	77.2	5.4	1.3	29	5.3		
BRG	e P	Z	17:59:57.9	77.2	9.7	1.6	21	5.0		
MOX	e P	Z	17:59:59.9	77.7	8.2	1.7	26	5.1		
WERD	e P	Z	18:00:01.0	77.8	8.6	1.9	21	4.9		
GUNZ	e P	Z	18:00:01.9	77.9	8.6	1.5	16	4.9		
TNS	e P	Z	18:00:04.2	78.3	6.2	1.8	28	5.0		
NOTT	e P	Z	18:00:04.6	78.4	8.5	1.8	21	4.9		
GRA1	e P	Z	18:00:06.4	78.6	7.9	1.6	38	5.2		
WLF	e P	Z	18:00:08.6	79.0	4.7	2.0	40	5.1		
GEC2	e P	Z	18:00:09.6	79.2	9.4	2.1	27	4.8		
BFO	e P	Z	18:00:14.1	80.2	6.0	1.8	29	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	22:15: 5.5	48.391N	25.958W	33.0N	4.3			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:20:19.0	24.2	281.3	1.6	15	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	22:14:54.7	28.340N	51.900E	25.3	4.5	3.8		SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:21:51.4	35.6	111.0	1.1	4	4.2		
BRG	e P	Z	22:21:56.5	36.3	113.8	0.9	6	4.4		
FUR	e P	Z	22:22:02.6	36.9	107.5	0.8	24	5.0		
NOTT	e P	Z	22:22:02.5	37.0	110.5	0.9	7	4.4		
CLL	e P	Z	22:22:03.3	37.0	113.3	0.9	9	4.5		
RUE	e P	Z	22:22:02.8	37.0	115.6					
GRA1	e P	Z	22:22:07.0	37.5	109.4	0.6	18	5.0		
	e pP	Z	22:22:13.6							
	e L	Z	22:29:41.5			20.5	151		3.8	
MOX	e P	Z	22:22:07.6	37.6	111.0	1.2	6	4.2		
CLZ	e P	Z	22:22:17.6	38.7	111.1	0.7	15	4.7		
BFO	e P	Z	22:22:19.1	38.9	104.8	0.7	5	4.3		
NRDL	e P	Z	22:22:21.1	39.1	111.5	0.9	24	4.8		
TNS	e P	Z	22:22:22.2	39.3	107.2	0.8	5	4.2		
BSEG	e P	Z	22:22:24.2	39.5	113.4	1.2	13	4.4		
WLF	e P	Z	22:22:32.7	40.6	104.3	0.6	10	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	22:23:58.5	4.065S	68.586E	33.0N	4.6			SZGRF

Chagos Archipelago region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:35:24.8	72.9	118.5	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	22:49:17.0	51.060N	177.620E	33.0N	5.1	5.0		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:00:55.0	74.5	8.2	1.1	46	5.4		
RUE	e P	Z	23:01:01.0	75.6	10.4	0.5	23	5.6		
IBBN	e P	Z	23:01:05.2	76.3	6.5	1.3	110	5.8		

	CLZ	e	P	Z	23:01:06.8	76.5	8.2	1.0	32	5.4
	CLL	i	P	+ Z	23:01:07.8	76.8	9.9	1.0	8	4.8
		e	PP	Z	23:03:32.8					
		e	sS	E	23:11:18.0					
		e	PS	N	23:11:43.0					
		e			23:12:37.6					
		e			23:12:53.9					
		e	SS	N	23:16:23.6					
		e	L	Z	23:42:54.6			16.3	1273	
	BRG	e	P	Z	23:01:09.5	77.1	10.4	1.4	15	4.9
	BUG	e	P	Z	23:01:09.7	77.2	6.2	1.2	33	5.3
	MOX	e	P	Z	23:01:12.4	77.6	9.0	1.0	11	4.9
	WERD	e	P	Z	23:01:13.3	77.7	9.4	1.1	9	4.8
	GUNZ	e	P	Z	23:01:13.7	77.8	9.4	1.3	12	4.9
	TNS	e	P	Z	23:01:16.2	78.3	6.9	1.0	17	5.0
	NOTT	e	P	Z	23:01:16.9	78.4	9.2	1.1	11	4.8
	GRA1	e	P	Z	23:01:18.3	78.6	8.7	1.1	30	5.2
		e	L	Z	23:39:00.8			21.9	776	5.0
	GRFO	e	P	Z	23:01:18.4	78.6	8.7	1.2	26	5.1
	WLF	e	P	Z	23:01:20.4	79.0	5.5	1.2	24	5.1
	STU	e	P	Z	23:01:24.0	79.7	7.4	0.9	19	5.0
	FUR	e	P	Z	23:01:26.8	80.1	8.7	1.2	32	5.1
	BFO	e	P	Z	23:01:26.3	80.2	6.8	1.1	14	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/14	23:58: 3.8	50.000N	177.250E	59.0	4.7			SZGRF

Rat Islands, Aleutian Islands, United States

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e	P	Z 00:09:44.1	75.5	8.6	1.0	19	5.2		
	RUE	e	P	Z 00:09:50.4	76.6	10.8	0.5	15	5.4		
	NRDL	e	P	Z 00:09:51.9	76.9	8.4	1.1	8	4.8		
	CLZ	e	P	Z 00:09:56.1	77.6	8.6	1.1	14	5.0		
	CLL	e	P	Z 00:09:56.6	77.8	10.3	1.0	5	4.6		
	BRG	e	P	Z 00:09:58.4	78.1	10.9	1.2	4	4.4		
	BUG	e	P	Z 00:09:58.8	78.2	6.6	0.7	8	4.9		
	MOX	e	P	Z 00:10:01.8	78.6	9.4	1.2	9	4.7		
	WERD	e	P	Z 00:10:02.1	78.7	9.8	1.2	4	4.3		
	GUNZ	e	P	Z 00:10:02.5	78.8	9.8	1.1	6	4.5		
	TNS	e	P	Z 00:10:05.5	79.3	7.3	1.3	11	4.6		
	NOTT	e	P	Z 00:10:05.9	79.4	9.7	1.1	4	4.2		
	GRA1	e	P	Z 00:10:07.0	79.6	9.1	1.2	14	4.8		
		e	pP	Z 00:10:23.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	00:18:32.7	43.521N	29.281W	33.0N	4.4			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:24:22.2	28.1	273.0	1.2	8	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	02:50:55.6	41.420N	126.640W	24.6	6.1	7.3		SZGRF

Off coast of northern California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z	03:02:47.0	76.8	326.7	1.8	494	6.3		
	e S	T	03:12:42.1							
BSEG	e P	Z	03:02:52.6	77.8	328.4	2.3	1182	6.6		
	e S	T	03:12:55.5							
RGN	e P	Z	03:02:54.8	78.1	330.5	1.8	732	6.5		
	e S	T	03:12:59.3							
IBBN	e P	Z	03:02:55.5	78.3	326.8	1.5	500	6.4		
	e S	T	03:12:59.4							
	e SS	T	03:17:58.2							
BUG	e P	Z	03:02:58.5	78.9	326.6					
	e S	T	03:13:04.7							
	e SS	T	03:18:05.3							
WLF	e P	Z	03:03:04.5	79.9	326.0	1.6	266	5.9		
	e S	T	03:13:18.7							
	e SS	T	03:18:33.7							
RUE	e P	Z	03:03:05.1	80.1	331.0	1.2	117	5.7		
	e S	T	03:13:19.6							
TNS	e P	Z	03:03:06.2	80.3	327.5	2.2	466	6.0		
	e S	T	03:13:21.0							
	e SS	T	03:18:35.9							
CLL	e P	Z	03:03:08.8	80.8	330.5	1.9	422	6.2		
	i pP	Z	03:03:13.5							
	i sP	Z	03:03:15.9			2.8	1249			
	i		03:03:25.5							
	e PPPP	Z	03:09:30.7							
	e S	N	03:13:24.2							
	e PS	E	03:14:11.8							
	e SS	E	03:18:34.5							
	e		03:22:44.8							
	e SSSS	E	03:24:40.0							
	e L	Z	03:38:14.5			21.3	206047			
MOX	e P	Z	03:03:09.9	81.0	329.6	1.7	265	6.0		
	e S	T	03:13:28.9							
	e SS	T	03:18:40.0							
WERD	e P	Z	03:03:12.0	81.4	330.1	1.3	104	5.7		
GUNZ	e P	Z	03:03:12.4	81.5	330.1	1.4	128	5.8		

	GRA1	e P	Z	03:03:14.0	81.7	329.4	1.8	484	6.3	
		e pP	Z	03:03:21.1						
		e S	T	03:13:35.0						
		e SS	T	03:18:47.1						
		e L	Z	03:38:28.0			21.4	142702		7.3
	STU	e P	Z	03:03:14.3	81.8	328.1	2.0	310	6.1	
		e S	T	03:13:34.5						
		e SS	T	03:18:58.3						
	BFO	e P	Z	03:03:14.5	81.8	327.6	2.6	800	6.4	
		e S	T	03:13:34.7						
		e SS	T	03:18:59.7						
	NOTT	e P	Z	03:03:14.6	81.9	330.0	2.1	369	6.1	
		e S	T	03:13:36.3						
		e SS	T	03:18:58.4						
	FUR	e P	Z	03:03:20.9	83.0	329.6	1.1	275	6.4	
		e S	T	03:13:49.5						
		e SS	T	03:19:13.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	07:14:52.3	28.500N	138.500E	33.0N	5.2			SZGRF

Bonin Islands, Japan, region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e P	Z	07:27:29.9	86.2	43.8	0.8	13	5.1		
	BRG	e P	Z	07:27:32.9	86.8	46.5	1.0	8	4.8		
	CLL	e P	Z	07:27:33.4	86.9	45.8	0.8	7	4.8		
	NRDL	e P	Z	07:27:35.3	87.4	43.6					
	CLZ	e P	Z	07:27:37.1	87.7	43.8	0.9	6	4.9		
	WERD	e P	Z	07:27:37.7	87.9	45.2	1.2	7	4.9		
	GUNZ	e P	Z	07:27:37.9	87.9	45.2	0.7	6	5.0		
	MOX	e P	Z	07:27:38.7	88.0	44.7	1.2	9	4.9		
	GEC2	e P	Z	07:27:39.7	88.3	46.2	1.0	12	5.1		
	NOTT	e P	Z	07:27:40.9	88.4	45.1	1.1	10	5.0		
	IBBN	e P	Z	07:27:41.0	88.5	41.8	0.6	20	5.5		
	GRA1	e P	Z	07:27:43.0	88.9	44.4	1.1	16	5.2		
	BUG	e P	Z	07:27:44.3	89.3	41.4	0.5	11	5.4		
	TNS	e P	Z	07:27:46.7	89.7	42.3					
	FUR	e P	Z	07:27:47.7	89.9	44.4	0.4	24	5.8		
	STU	e P	Z	07:27:50.3	90.5	42.8	0.3	15	5.9		
	WLF	e P	Z	07:27:53.4	91.1	40.5	0.9	13	5.2		
	BFO	e P	Z	07:27:52.8	91.2	42.2	1.3	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	10:13:54.0	3.200S	153.710E	33.0		6.0		SZGRF

New Ireland, Papua New Guinea, region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP		Z	10:34:03.2	119.4	47.0					
	e SP		R	10:44:03.3							
RUE	e PKPdf		Z	10:32:45.6	120.6	48.3					
	e PP		Z	10:34:12.1							
	e SP		R	10:44:04.1							
BSEG	e PKPdf		Z	10:32:46.6	121.1	44.1					
	e PP		Z	10:34:15.1							
	e SP		R	10:44:10.2							
BRG	e PKPdf		Z	10:32:47.3	121.6	49.2					
	e PP		Z	10:34:19.0							
	e SP		R	10:44:13.0							
HLG	e PKPdf		Z	10:32:48.4	121.9	41.4					
	e PP		Z	10:34:20.5							
	e SP		R	10:44:12.4							
NRDL	e PKPdf		Z	10:32:48.9	122.2	44.5					
	e PP		Z	10:34:22.8							
	e SP		R	10:44:17.0							
CLZ	e PKPdf		Z	10:32:49.8	122.6	45.0					
	e PP		Z	10:34:26.0							
	e SP		R	10:44:19.9							
CLL	i Pdiff		Z	10:29:17.5	122.8	49.5					
	i PKPdf	-	Z	10:32:47.0			0.7	134			
	e PP		Z	10:34:27.1							
	e sPP		Z	10:34:54.7							
	e sPPP		Z	10:37:26.2							
	e PS		E	10:44:12.4							
	e SKSP		E	10:44:37.8							
	e PPS		Z	10:45:44.4							
	e sSS		E	10:51:55.7							
	e sSSS		E	10:56:20.6							
	e			11:00:59.2							
	e L		Z	11:30:42.7			20.9	3675			
MOX	e PKPdf		Z	10:32:48.7	122.9	46.9					
	e PP		Z	10:34:27.7							
	e SP		R	10:44:16.9							
GEC2	e PKPdf		Z	10:32:49.9	123.1	50.0					
	e PP		Z	10:34:28.8							
NOTT	e PKPdf		Z	10:32:49.2	123.2	47.8					
	e PP		Z	10:34:30.0							
	e SP		R	10:44:27.9							
IBBN	e PKPdf		Z	10:32:50.9	123.4	42.0					
	e PP		Z	10:34:30.2							
GRA1	e Pdiff		Z	10:29:27.3	123.7	47.0					
	e PKPdf		Z	10:32:51.3							
	e PP		Z	10:34:33.6							
	e SKPdf		Z	10:36:21.7							
	e SP		R	10:44:31.8							

	e SS	R	10:52:02.3						
	e SSS	R	10:56:23.6						
	e L	Z	11:32:51.6			20.5	3221	6.0	
BUG	e PKPdf	Z	10:32:52.3	124.2	41.9				
	e PP	Z	10:34:35.8						
	e SP	R	10:44:40.3						
TNS	e PKPdf	Z	10:32:53.3	124.6	43.7				
	e PP	Z	10:34:35.7						
	e SP	R	10:44:41.7						
FUR	e PKPdf	Z	10:32:52.3	124.7	47.8				
	e PP	Z	10:34:40.2						
	e SP	R	10:44:40.1						
STU	e PKPdf	Z	10:32:53.5	125.3	45.2				
	e PP	Z	10:34:37.7						
	e SP	R	10:44:45.4						
WLF	e PKPdf	Z	10:32:56.5	126.0	41.5				
	e PP	Z	10:34:49.2						
	e SP	R	10:44:50.9						
BFO	e PKPdf	Z	10:32:54.6	126.0	44.5				
	e PP	Z	10:34:48.8						
	e SP	R	10:44:52.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	10:42:15.1	20.481S	169.307E	42.2				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	11:01:42.8	144.0	41.6					
	e pPKPbc	Z	11:01:56.6							
CLZ	e PKPbc	Z	11:01:44.8	144.6	35.5					
	e pPKPbc	Z	11:01:57.6							
WERD	e PKPbc	Z	11:01:46.1	145.0	39.6					
	e pPKPbc	Z	11:01:58.6							
GUNZ	e PKPbc	Z	11:01:46.2	145.0	39.7					
	e pPKPbc	Z	11:01:58.8							
MOX	e PKPbc	Z	11:01:46.3	145.1	38.4					
	e pPKPbc	Z	11:01:59.0							
IBBN	e PKPbc	Z	11:01:46.3	145.1	31.2					
	e pPKPbc	Z	11:01:59.4							
NOTT	e PKPbc	Z	11:01:47.8	145.5	39.9					
	e pPKPbc	Z	11:02:00.5							
GEC2	e PKPbc	Z	11:01:48.2	145.6	43.2					
	e pPKPbc	Z	11:02:00.6							
GRA1	e PKPbc	Z	11:01:49.6	146.0	38.7					
	e pPKPbc	Z	11:02:02.5							
TNS	e PKPbc	Z	11:01:51.7	146.6	33.9					
	e pPKPbc	Z	11:02:04.3							

FUR	e PKPbc	Z	11:01:53.3	147.2	40.3
	e pPKPbc	Z	11:02:05.6		
WLF	e PKPbc	Z	11:01:55.9	147.9	30.7
	e pPKPbc	Z	11:02:08.4		
BFO	e PKPbc	Z	11:01:55.2	148.2	35.4
	e pPKPbc	Z	11:02:08.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	13:33:19.1	3.689S	8.712W	33.0N		4.6		SZGRF

South Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z	13:42:44.6	54.7	204.7					
GEC2	e P	Z	13:42:54.3	56.0	207.3					
GRA1	e P	Z	13:42:55.4	56.1	204.2	23.2	109			
	e L	Z	14:14:46.7			20.4	531		4.6	
NOTT	e P	Z	13:42:57.7	56.4	205.2					
MOX	e P	Z	13:43:01.7	57.1	204.4					
CLZ	e P	Z	13:43:06.4	57.9	202.7					
BRG	e P	Z	13:43:09.1	57.9	207.0					
CLL	e P	Z	13:43:08.4	58.0	205.8					
NRDL	e P	Z	13:43:10.4	58.4	202.2					
RUE	e P	Z	13:43:17.3	59.3	206.4					
HLG	e P	Z	13:43:19.9	59.5	199.3					
BSEG	e P	Z	13:43:20.7	59.8	202.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	15:01:37.5	22.532N	144.403E	9.0G		4.4		neic-m

Volcano Islands, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z	15:15:06.4	96.7	42.7					
	e PP	Z	15:19:02.6							
	e L	Z	16:03:32.3			21.2	148		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	17:22:44.7	22.758S	171.489E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	17:42:20.0	145.7	38.4					
BSEG	e PKPbc	Z	17:42:20.0	145.7	31.9					
BRG	e PKPbc	Z	17:42:23.0	146.9	40.2					

CLL	e PKPbc	Z	17:42:23.7	147.0	38.3
NRDL	e PKPbc	Z	17:42:23.9	147.0	32.7
CLZ	e PKPbc	Z	17:42:25.1	147.5	33.7
WERD	e PKPbc	Z	17:42:26.1	147.9	38.1
IBBN	e PKPbc	Z	17:42:26.6	147.9	29.1
GUNZ	e PKPbc	Z	17:42:26.4	148.0	38.2
MOX	e PKPbc	Z	17:42:26.3	148.0	36.8
NOTT	e PKPbc	Z	17:42:28.1	148.5	38.4
GEC2	e PKPbc	Z	17:42:27.6	148.5	41.9
BUG	e PKPbc	Z	17:42:29.1	148.8	29.0
GRA1	e PKPbc	Z	17:42:28.9	148.9	37.1
TNS	e PKPbc	Z	17:42:30.5	149.5	32.0
WLF	e PKPbc	Z	17:42:33.8	150.7	28.5
BFO	e PKPbc	Z	17:42:34.0	151.1	33.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/15	19:52:47.3	43.720S	79.110W	33.0N		6.7		SZGRF

Off coast of southern Chile

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PP	Z	20:12:53.0	119.2	235.6					
	e SP	Z	20:22:40.5							
BFO	e PP	Z	20:12:55.3	119.7	236.2					
	e SP	Z	20:22:40.7							
STU	e PP	Z	20:13:00.0	120.4	236.9					
	e SP	Z	20:22:41.7							
TNS	e PP	Z	20:13:04.3	120.8	237.2					
	e SP	Z	20:22:47.0							
BUG	e PP	Z	20:13:03.5	120.8	237.1					
	e SP	Z	20:22:46.8							
FUR	e PP	Z	20:13:05.8	121.2	237.7					
	e SP	Z	20:22:51.6							
IBBN	e PP	Z	20:13:08.5	121.5	237.8					
	e SP	Z	20:22:54.1							
GRA1	e Pdiff	Z	20:08:07.4	122.0	238.4					
	e PP	Z	20:13:11.3							
	e SKSac	R	20:18:37.8							
	e SP	Z	20:23:00.2							
	e SS	T	20:29:56.4							
	e SSS	R	20:34:25.7							
	e L	Z	21:06:14.3			18.2	15039		6.7	
NOTT	e PP	Z	20:13:14.8	122.5	239.0					
	e SP	Z	20:23:06.6							
HLG	e PP	Z	20:13:15.2	122.6	238.9					
	e SP	Z	20:23:04.6							
CLZ	e PP	Z	20:13:15.9	122.6	239.1					
	e SP	Z	20:23:06.8							

MOX	e PP	Z	20:13:16.3	122.7	239.2
	e SP	Z	20:23:08.1		
NRDL	e PP	Z	20:13:16.3	122.8	239.3
	e SP	Z	20:23:08.6		
GEC2	e PP	Z	20:13:17.5	122.9	239.3
	e SP	Z	20:23:09.4		
BSEG	e PP	Z	20:13:22.2	123.7	240.3
	e SP	Z	20:23:14.8		
CLL	e PP	Z	20:13:23.4	123.8	240.3
	e SP	Z	20:23:19.0		
	e SKSac	E	20:18:37.0		
BRG	e PP	Z	20:13:25.3	124.1	240.6
	e SP	Z	20:23:23.7		
RUE	e PP	Z	20:13:30.0	124.8	241.5
	e SP	Z	20:23:33.3		
RGN	e PP	Z	20:13:34.7	125.5	242.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/16	10:19:20.9	73.485N	3.033E	33.0N	4.4	3.6		SZGRF

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	10:24:19.2	22.6	352.6	1.5	20	4.4		
BRG	e P	Z	10:24:23.9	23.1	352.1	1.3	17	4.4		
MOX	e P	Z	10:24:24.6	23.1	353.8	1.3	18	4.4		
TNS	e P	Z	10:24:26.3	23.4	356.1	1.5	16	4.3		
WERD	e P	Z	10:24:26.8	23.4	353.4	1.4	18	4.4		
GUNZ	e P	Z	10:24:27.2	23.5	353.4	1.4	19	4.4		
NOTT	e P	Z	10:24:32.6	24.0	353.7	1.5	11	4.2		
GRA1	e P	Z	10:24:33.5	24.1	354.3	0.7	8	4.4		
	e L	Z	10:36:11.3			21.7	226		3.6	
WET	e P	Z	10:24:39.3	24.7	353.3	1.5	18	4.6		
GEC2	e P	Z	10:24:42.4	25.1	352.9	1.2	15	4.6		
BFO	e P	Z	10:24:44.0	25.3	356.5	1.1	9	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/16	12:18: 1.7	1.941N	98.647E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:30:43.4	86.9	90.7	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/16	14:42:24.1	43.182N	144.340E	39.0	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:54:21.5	78.5	32.9	1.0	11	4.8		
	e pP	Z	14:54:32.8							
	e sP	Z	14:54:37.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/16	16:06:24.1	4.510N	92.000E	32.3	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	16:18:24.3	78.9	95.9	1.1	8	4.7		
	e pP	Z	16:18:33.7							
BRG	e P	Z	16:18:25.5	79.0	96.5	1.3	14	4.9		
	e pP	Z	16:18:33.8							
WET	e pP	Z	16:18:36.9	79.5	95.3					
CLL	e P	Z	16:18:28.2	79.6	95.8	5.1	192	5.3		
	e pP	Z	16:18:37.9							
GUNZ	e pP	Z	16:18:39.7	79.9	95.1					
WERD	e pP	Z	16:18:39.6	80.0	95.1					
NOTT	e P	Z	16:18:30.9	80.0	94.8					
MOX	e P	Z	16:18:33.4	80.4	94.6	1.4	8	4.5		
GRA1	e P	Z	16:18:34.0	80.6	94.1	1.0	15	5.0		
	e pP	Z	16:18:43.8							
CLZ	e P	Z	16:18:37.3	81.3	93.8	1.3	16	4.9		
	e pP	Z	16:18:46.7							
BSEG	e P	Z	16:18:38.6	81.5	94.1	1.4	16	4.9		
NRDL	e P	Z	16:18:38.5	81.5	93.7	2.0	44	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/16	18:10:18.4	21.260S	178.520W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:29:56.0	146.6	15.1					
NRDL	e PKPdf	Z	18:30:01.0	148.1	15.3					
CLL	e PKPbc	Z	18:30:02.7	148.6	21.0					
CLZ	e PKPbc	Z	18:30:02.0	148.6	16.1					
BRG	e PKPbc	Z	18:30:03.2	148.8	22.9					
BUG	e PKPbc	Z	18:30:04.2	149.5	10.7					
MOX	e PKPbc	Z	18:30:04.0	149.6	18.9					
WERD	e PKPbc	Z	18:30:05.2	149.6	20.2					
GUNZ	e PKPbc	Z	18:30:04.3	149.7	20.3					

NOTT	e PKPbc	Z	18:30:05.7	150.2	20.3	
TNS	e PKPbc	Z	18:30:07.3	150.5	13.3	
GRA1	e PKPbc	Z	18:30:07.2	150.5	18.7	
	e PKPab	Z	18:30:13.9			
WET	e PKPbc	Z	18:30:07.1	150.7	22.1	
GEC2	e PKPbc	Z	18:30:07.4	150.7	23.8	
WLF	e PKPbc	Z	18:30:09.5	151.4	9.1	
STU	e PKPbc	Z	18:30:10.2	151.8	15.4	
BFO	e PKPbc	Z	18:30:11.5	152.4	13.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/16	23:44:52.9	16.050S	173.670W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e PKPbc	Z	00:04:28.0	145.8	3.6					
NOTT	e PKPbc	Z	00:04:28.4	145.9	10.0					
GRA1	e PKPbc	Z	00:04:29.0	146.1	8.5					
WET	e PKPbc	Z	00:04:30.3	146.5	11.4					
GEC2	e PKPbc	Z	00:04:30.4	146.7	13.0					
BFO	e PKPbc	Z	00:04:33.6	147.7	3.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	02:27: 2.6	23.282N	121.842E	33.0N	4.5			SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:39:33.7	84.7	59.7	1.1	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	02:37:36.0	5.230N	94.530E	33.0N	5.4	4.7		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:49:42.1	80.0	94.0	1.8	77	5.3		
GEC2	e P	Z	02:49:42.5	80.0	93.5	1.0	60	5.5		
RUE	e P	Z	02:49:42.9	80.2	94.2	0.8	63	5.6		
WET	e P	Z	02:49:45.3	80.6	92.9	1.0	32	5.3		
CLL	e P	Z	02:49:44.9	80.6	93.3	1.1	26	5.1		
RGN	e P	Z	02:49:45.4	80.6	94.1	1.7	116	5.6		
GUNZ	e P	Z	02:49:47.4	81.0	92.7	1.7	55	5.3		
WERD	e P	Z	02:49:47.3	81.0	92.7	1.0	19	5.1		
NOTT	e P	Z	02:49:48.3	81.1	92.4	2.0	79	5.4		

MOX	e P	Z	02:49:49.7	81.5	92.2	1.9	62	5.3	
FUR	e P	Z	02:49:50.2	81.6	91.5	0.9	31	5.5	
GRA1	e P	Z	02:49:51.4	81.7	91.7	1.0	46	5.5	
	e L	Z	03:22:10.1			20.5	338		4.7
CLZ	e P	Z	02:49:54.0	82.3	91.4	1.0	32	5.4	
BSEG	e P	Z	02:49:54.5	82.4	91.6	1.0	39	5.5	
NRDL	e P	Z	02:49:55.3	82.5	91.2	1.4	54	5.5	
STU	e P	Z	02:49:57.5	83.0	90.0	0.9	22	5.4	
TNS	e P	Z	02:50:00.4	83.5	89.7	1.2	27	5.4	
BFO	e P	Z	02:50:00.3	83.6	89.3	0.9	19	5.3	
IBBN	e P	Z	02:50:02.4	83.9	89.3	1.2	52	5.6	
BUG	e P	Z	02:50:04.0	84.2	88.9	1.1	38	5.5	
WLF	e P	Z	02:50:08.3	85.0	87.8	1.7	72	5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	05:27: 7.9	11.200N	88.940E	33.0N	4.6			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:38:38.0	73.6	92.0	1.2	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	06:21:40.4	40.070N	127.560W	33.0N	6.2	6.8		SZGRF

Off coast of northern California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:33:44.5	79.3	328.5	1.2	214	6.0		
	e PP	Z	06:36:42.3							
	e S	T	06:43:46.1							
RGN	e P	Z	06:33:46.7	79.6	330.6	1.6	670	6.4		
	e PP	Z	06:36:44.2							
	e S	T	06:43:50.3							
IBBN	e P	Z	06:33:47.4	79.8	326.9	1.6	665	6.4		
	e S	T	06:43:50.5							
	e SS	T	06:48:51.9							
BUG	e P	Z	06:33:50.0	80.4	326.6	1.7	277	5.9		
	e PP	Z	06:36:51.2							
	e S	T	06:43:57.6							
	e SS	T	06:48:53.7							
NRDL	e P	Z	06:33:50.8	80.4	328.5	2.0	718	6.3		
	e S	T	06:43:58.4							
CLZ	e P	Z	06:33:54.6	81.1	328.7	1.7	684	6.4		
	e S	T	06:44:05.0							
WLF	e P	Z	06:33:56.4	81.5	326.0	1.6	351	6.2		
	e PP	Z	06:36:58.7							

	e	S	T	06:44:08.2					
	e	SS	T	06:49:18.5					
RUE	e	P	Z	06:33:56.7	81.6	331.1	1.5	351	6.2
	e	S	T	06:44:09.9					
TNS	e	P	Z	06:33:58.0	81.8	327.5	1.6	248	6.0
	e	PP	Z	06:37:01.6					
	e	S	T	06:44:13.1					
	e	SS	T	06:49:28.3					
CLL	i	P	Z	06:34:01.0	82.4	330.6	1.4	254	6.1
	i			06:34:10.4					
	e	S	E	06:44:18.3			20.1	13188	
	e	SS	E	06:49:35.1					
	e	PKKPbc	Z	06:52:34.2					
	e	SSS	N	06:53:00.6					
	e	L	Z	07:10:09.5			19.5	43386	
MOX	e	P	Z	06:34:01.7	82.5	329.7	1.8	325	6.2
	e	S	T	06:44:19.5					
	e	SS	T	06:49:37.3					
WERD	e	P	Z	06:34:03.7	82.9	330.2	1.0	44	5.5
GUNZ	e	P	Z	06:34:04.2	83.0	330.2	1.8	180	5.9
BRG	e	P	Z	06:34:04.6	83.0	331.3	1.2	244	6.2
	e	PP	Z	06:37:12.1					
	e	S	T	06:44:24.0					
	e	SS	T	06:49:38.1					
GRA1	e	P	Z	06:34:05.8	83.2	329.5	1.4	318	6.3
	e	S	T	06:44:28.2					
	e	SS	T	06:49:47.3					
	e	L	Z	07:09:49.1			21.0	38722	6.8
STU	e	P	Z	06:34:06.0	83.3	328.1	2.2	451	6.3
	e	S	T	06:44:28.6					
	e	SS	T	06:49:49.2					
BFO	e	P	Z	06:34:06.2	83.4	327.6	1.9	438	6.4
	e	PP	Z	06:37:14.8					
	e	S	T	06:44:26.9					
	e	SS	T	06:49:51.4					
NOTT	e	P	Z	06:34:06.4	83.4	330.1	2.1	479	6.4
	e	PP	Z	06:37:15.8					
	e	S	T	06:44:29.0					
	e	SS	T	06:49:49.9					
WET	e	P	Z	06:34:10.6	84.2	330.7	1.6	239	6.2
	e	S	T	06:44:38.3					
FUR	e	P	Z	06:34:12.6	84.5	329.6	1.8	920	6.7
	e	S	T	06:44:41.2					
	e	SS	T	06:50:05.5					
GEC2	e	P	Z	06:34:13.2	84.7	331.3	1.5	260	6.2
	e	PP	Z	06:37:28.5					
	e	S	T	06:44:41.0					
	e	SS	T	06:50:08.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	08:44: 4.4				4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:55:54.3			0.8	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	20:23:25.9	45.910N	144.090E	33.0N	4.9			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:34:52.6	72.7	31.7	0.8	8	4.9		
NRDL	e P	Z	20:34:59.9	74.0	31.4	0.9	4	4.5		
CLL	e P	Z	20:34:59.7	74.1	33.1	0.9	20	5.2		
BRG	e P	Z	20:35:00.2	74.1	33.6	1.1	4	4.4		
CLZ	e P	Z	20:35:03.0	74.5	31.5	1.0	15	5.0		
WERD	e P	Z	20:35:05.6	75.0	32.5	1.0	6	4.6		
GUNZ	e P	Z	20:35:06.2	75.1	32.5	0.9	7	4.7		
MOX	e P	Z	20:35:06.2	75.1	32.1	1.1	10	4.8		
NOTT	e P	Z	20:35:09.4	75.6	32.3	1.3	14	4.9		
BUG	e P	Z	20:35:10.1	75.8	29.4	1.0	16	5.1		
GEC2	e P	Z	20:35:10.6	75.9	33.1	1.2	7	4.7		
WET	e P	Z	20:35:11.3	75.9	32.7	1.0	13	5.0		
GRA1	e P	Z	20:35:12.0	76.0	31.7	1.0	27	5.3		
TNS	e P	Z	20:35:14.3	76.5	30.0	0.9	9	4.9		
FUR	e P	Z	20:35:18.9	77.3	31.5	1.0	25	5.3		
STU	e P	Z	20:35:20.0	77.5	30.3					
BFO	e P	Z	20:35:23.4	78.2	29.7	1.0	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	21:04:49.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/17	21:26:12.4	4.160N	96.480E	28.9	5.0	4.6		SZGRF

Northern Sumatera, Indonesia

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

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:38:30.7	82.1	93.2	0.9	7	4.8		
GEC2	e P	Z	21:38:31.0	82.1	92.7	1.0	14	5.0		
WET	e P	Z	21:38:33.8	82.7	92.1	0.8	9	5.0		
CLL	e P	Z	21:38:32.7	82.7	92.5	1.2	10	4.9		
GUNZ	e P	Z	21:38:35.8	83.1	91.8	0.9	7	4.9		
WERD	e P	Z	21:38:35.6	83.1	91.8	0.9	6	4.9		
NOTT	e P	Z	21:38:36.4	83.2	91.6	0.9	6	4.8		
MOX	e P	Z	21:38:38.0	83.5	91.3	0.8	5	4.8		
GRA1	e P	Z	21:38:39.5	83.8	90.9	0.8	16	5.3		
	e pP	Z	21:38:47.9							
	e L	Z	22:23:34.7			19.6	262		4.6	
CLZ	e P	Z	21:38:41.4	84.3	90.5	0.8	6	4.9		
BSEG	e P	Z	21:38:42.7	84.4	90.6	2.3	72	5.5		
NRDL	e P	Z	21:38:43.8	84.5	90.3					
TNS	e P	Z	21:38:48.2	85.5	88.8	0.8	10	5.0		
IBBN	e P	Z	21:38:50.1	85.9	88.5	0.6	13	5.2		
BUG	e P	Z	21:38:51.7	86.3	88.0	0.8	12	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	04:25:32.3	55.720N	162.050E	33.0N	5.1	4.3		SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:36:29.5	67.9	16.7	1.3	22	5.2		
NRDL	e P	Z	04:36:38.1	69.3	16.4	1.1	11	4.9		
CLZ	e P	Z	04:36:42.1	69.9	16.5	1.3	32	5.3		
CLL	e P	Z	04:36:41.4	69.9	18.0	1.2	37	5.4		
BRG	e P	Z	04:36:43.0	70.2	18.4	1.2	20	5.1		
BUG	e P	Z	04:36:46.9	70.8	14.7	1.1	18	5.1		
MOX	e P	Z	04:36:47.3	70.8	17.1	1.1	20	5.2		
WERD	e P	Z	04:36:47.8	70.9	17.5	1.1	25	5.3		
GUNZ	e P	Z	04:36:48.3	71.0	17.5	1.1	21	5.2		
NOTT	e P	Z	04:36:51.7	71.5	17.3	1.4	21	5.1		
TNS	e P	Z	04:36:53.2	71.8	15.3	1.0	9	4.9		
GRA1	e P	Z	04:36:53.7	71.8	16.8	0.9	32	5.5		
	e L	Z	05:11:30.0			21.9	167		4.3	
WET	e P	Z	04:36:54.9	72.0	17.7	1.1	25	5.2		
GEC2	e P	Z	04:36:55.2	72.1	18.1	1.1	14	5.0		
WLF	e P	Z	04:36:59.2	72.7	13.9	0.9	10	4.9		
STU	e P	Z	04:37:00.4	73.1	15.6	0.8	10	5.0		
FUR	e P	Z	04:37:01.9	73.3	16.7	0.4	15	5.4		
BFO	e P	Z	04:37:03.8	73.7	15.1	1.2	13	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	08:46:49.2	3.912N	90.955E	33.0N	4.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:58:57.7	80.4	95.3	0.7	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	09:31:42.8	32.472N	49.286E	33.0N	4.6			SZGRF

Western Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:38:14.7	33.0	107.0	0.8	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	09:31:17.0	23.897N	120.638E	33.0N	4.8			SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:43:42.1	83.6	60.2	1.4	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	10:00:14.3	36.523N	70.725E	25.6	4.3			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:08:20.0	44.1	83.9	1.2	7	4.3		
	e pP	Z	10:08:26.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	10:09:57.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	12:29:39.0	1.267N	96.475E	27.1	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	12:42:16.3	86.0	92.8	1.2	6	4.6		

		e pP	Z	12:42:24.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	12:36: 1.7	1.191N	98.494E	22.7	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:48:45.6	87.3	91.3	1.0	6	4.7		
	e pP	Z	12:48:52.3			1.0	6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	15:16:43.9	45.575N	26.598E	144.5			4.7	SZGRF

Romania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e Pn	Z	15:19:36.7	12.4	114.0					
NRDL	e Pn	Z	15:19:42.2	12.8	116.2					
BSEG	e Pn	Z	15:19:50.6	13.4	122.0					
IBBN	e Pn	Z	15:19:59.1	14.0	111.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	16:13:47.6							SZGRF

Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	16:16:32.2							
	e Sn	N	16:18:33.2							
WET	e Pn	Z	16:16:39.9							
	e Sn	E	16:18:45.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18	19:55:45.1	81.851N	18.370W	34.0	4.5			SZGRF

Near north coast of Kalaallit Nunaat

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:02:21.0	33.4	352.7	1.1	8	4.5		
	e pP	Z	20:02:29.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2005/06/18 19:56:26.0 11.099S 68.443E 33.0N 4.8 SZGRF
Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:08:14.2	76.8	124.6	1.1	5	4.5		
WET	e P	Z	20:08:17.4	77.4	124.0	1.1	6	4.6		
FUR	e P	Z	20:08:20.9	77.8	122.5	0.9	22	5.3		
BRG	e P	Z	20:08:20.9	77.9	125.2	1.2	8	4.8		
GUNZ	e P	Z	20:08:24.1	78.4	123.7	1.1	11	4.9		
CLL	e P	Z	20:08:25.0	78.6	124.5	1.0	18	5.2		
GRA1	e P	Z	20:08:25.0	78.6	122.7	0.9	16	5.2		
MOX	e P	Z	20:08:26.9	79.0	123.2	0.9	7	4.7		
STU	e P	Z	20:08:28.7	79.3	120.9	0.9	15	5.0		
BFO	e P	Z	20:08:30.1	79.6	120.1	1.0	6	4.6		
CLZ	e P	Z	20:08:34.2	80.3	122.3	1.2	18	4.9		
TNS	e P	Z	20:08:34.9	80.4	120.5	1.1	10	4.6		
NRDL	e P	Z	20:08:36.1	80.7	122.2	1.1	9	4.7		
BSEG	e P	Z	20:08:40.3	81.4	122.6					
BUG	e P	Z	20:08:41.6	81.7	119.7	0.9	9	4.9		
IBBN	e P	Z	20:08:42.4	81.9	120.2	0.8	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:49:43.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19	00:28: 1.9	21.324S	170.899E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	00:47:36.3	145.4	39.9					
CLL	e PKPbc	Z	00:47:36.4	145.4	38.1					
CLZ	e PKPbc	Z	00:47:38.6	146.0	33.7					
IBBN	e PKPbc	Z	00:47:39.8	146.4	29.2					
MOX	e PKPbc	Z	00:47:39.8	146.5	36.6					
NOTT	e PKPbc	Z	00:47:41.3	146.9	38.2					
GEC2	e PKPbc	Z	00:47:41.4	147.0	41.6					
WET	e PKPbc	Z	00:47:42.1	147.2	40.0					
GRA1	e PKPbc	Z	00:47:42.1	147.4	36.9					
	e PKPab	Z	00:47:44.9							
TNS	e PKPbc	Z	00:47:44.1	148.0	32.0					
FUR	e PKPab	Z	00:47:49.7	148.6	38.5					
STU	e PKPbc	Z	00:47:46.9	148.9	34.5					

WLF	e PKPbc	Z	00:47:48.1	149.2	28.6	
BFO	e PKPbc	Z	00:47:48.2	149.6	33.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPdf	Z	02:20:11.4							
BRG	e PKPdf	Z	02:20:17.4							
BSEG	e PKPdf	Z	02:20:12.5							
BUG	e PKPdf	Z	02:20:09.8							
CLL	e PKPpre	Z	02:20:11.7	130.1	281.7	1.1	3			
	i PKPdf	+ Z	02:20:16.2			1.3	14			
	e SS	N	02:39:54.0							
	e SSS	N	02:44:57.6							
CLZ	e PKPdf	Z	02:20:13.4							
FUR	e PKPdf	Z	02:20:15.4							
GEC2	e PKPdf	Z	02:20:18.0							
GRA1	e PKPdf	Z	02:20:14.8							
MOX	e PKPdf	Z	02:20:15.1							
STU	e PKPdf	Z	02:20:12.4							
TNS	e PKPdf	Z	02:20:11.9							
WERD	e PKPdf	Z	02:20:16.2							
WET	e PKPdf	Z	02:20:16.8							
WLF	e PKPdf	Z	02:20:08.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19	04:46: 9.1	31.866N	56.957E	33.0N	4.7			SZGRF

Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:53:10.9	36.4	101.5	1.3	30	4.9		
BRG	e P	Z	04:53:13.3	36.7	104.4	1.4	22	4.7		
CLL	e P	Z	04:53:18.9	37.4	104.0	1.4	52	5.1		
NOTT	e P	Z	04:53:21.0	37.6	101.3					
MOX	e P	Z	04:53:25.1	38.1	101.9	1.4	20	4.6		
GRA1	e P	Z	04:53:25.8	38.2	100.3	1.3	18	4.6		
CLZ	e P	Z	04:53:33.6	39.1	102.1	1.1	22	4.7		
BSEG	e P	Z	04:53:36.8	39.6	104.6	1.0	13	4.5		
TNS	e P	Z	04:53:41.7	40.0	98.5	1.6	28	4.6		
IBBN	e P	Z	04:53:46.9	40.8	100.3					
BUG	e P	Z	04:53:48.9	40.9	98.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19	07:16:13.6	22.020S	180.980W	592.6				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:34:49.7	147.0	19.5					
	e pPKPbc	Z	07:37:03.7							
NRDL	e PKPbc	Z	07:34:53.6	148.4	19.9					
CLL	e PKPbc	Z	07:34:54.8	148.8	25.6					
	e PKPab	Z	07:34:59.8							
BRG	e PKPbc	Z	07:34:55.5	148.9	27.5					
	e pPKPbc	Z	07:37:10.6							
CLZ	e PKPbc	Z	07:34:55.0	148.9	20.7					
IBBN	e PKPbc	Z	07:34:55.0	149.0	15.9					
WERD	e PKPbc	Z	07:34:57.4	149.7	25.0					
MOX	e PKPbc	Z	07:34:57.2	149.7	23.6					
GUNZ	e PKPbc	Z	07:34:57.6	149.8	25.1					
	e PKPab	Z	07:35:04.4							
BUG	e PKPbc	Z	07:34:57.0	149.9	15.4					
NOTT	e PKPbc	Z	07:34:59.1	150.4	25.1					
GRA1	e PKPbc	Z	07:34:59.5	150.7	23.6					
	e PKPab	Z	07:35:08.2							
WET	e PKPbc	Z	07:35:00.0	150.7	27.0					
GEC2	e PKPbc	Z	07:34:59.9	150.7	28.7					
TNS	e PKPbc	Z	07:34:59.5	150.8	18.2					
WLF	e PKPbc	Z	07:35:02.1	151.8	14.1					
FUR	e PKPbc	Z	07:35:02.6	152.1	24.9					
	e PKPab	Z	07:35:14.5							
BFO	e PKPbc	Z	07:35:03.7	152.7	19.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19	09:27:21.5	39.023N	125.030W	33.0N	5.1			SZGRF

Off coast of northern California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:39:45.2	83.3	327.3	1.8	24	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	14:18:48.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/19	16:15:16.6	36.284N	140.853E	49.4	5.6	5.4		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P		Z	16:27:24.3	80.2	38.4	1.0	50	5.5		
BRG	e P		Z	16:27:29.2	81.2	40.7	0.9	25	5.3		
CLL	i P	-	Z	16:27:30.3	81.2	40.1	0.9	61	5.8		
	i pP	+	Z	16:27:44.0			1.2	91			
	e sP		Z	16:27:50.3							
	i PP		Z	16:30:37.8							
	e sPP		Z	16:30:55.1							
	e PPP		Z	16:32:28.8							
	e S		E	16:37:38.0							
	e ScS		N	16:37:52.7							
	e SS		N	16:42:55.9							
	e			16:44:03.7							
	e L		Z	17:08:57.4			15.1	1682			
NRDL	e P		Z	16:27:31.0	81.4	38.1					
CLZ	e P		Z	16:27:33.2	81.8	38.3	1.0	50	5.6		
WERD	e P		Z	16:27:34.5	82.2	39.5					
GUNZ	e P		Z	16:27:35.1	82.2	39.5					
MOX	e P		Z	16:27:35.3	82.3	39.1	1.2	30	5.4		
	e pP		Z	16:27:49.7							
IBBN	e P		Z	16:27:36.0	82.4	36.4					
NOTT	e P		Z	16:27:37.9	82.7	39.3					
	e pP		Z	16:27:52.1							
GEC2	e P		Z	16:27:37.5	82.8	40.4	1.3	25	5.3		
WET	e P		Z	16:27:38.6	82.9	39.8	1.4	34	5.4		
	e pP		Z	16:27:52.8							
GRA1	e P		Z	16:27:39.9	83.2	38.7	1.0	93	6.0		
	e pP		Z	16:27:54.1							
	e S		N	16:38:04.6							
	e L		Z	17:09:16.7			20.0	1626		5.4	
TNS	e P		Z	16:27:43.5	83.9	36.8	1.3	31	5.4		
	e pP		Z	16:27:57.8							
FUR	e P		Z	16:27:46.2	84.4	38.6	0.8	64	5.9		
WLF	e P		Z	16:27:50.1	85.2	35.1					
BFO	e P		Z	16:27:51.0	85.4	36.6	0.9	53	5.7		
	e pP		Z	16:28:05.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	02:32:56.8	36.020N	71.510E	237.3	5.7			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P		Z	02:40:34.6	43.1	87.1	0.9	114	5.6		

	e	pP		Z	02:41:24.3				
	e	sP		Z	02:41:51.5				
	e	PcP		Z	02:42:21.0				
GEC2	e	P		Z	02:40:37.1	43.4	84.8	1.3	37	5.0
	e	pP		Z	02:41:27.4				
	e	sP		Z	02:41:54.7				
	e	PcP		Z	02:42:21.9				
RGN	e	P		Z	02:40:37.3	43.4	90.5	1.1	474	6.1
	e	pP		Z	02:41:26.5				
	e	sP		Z	02:41:53.9				
CLL	e	P	+	Z	02:40:38.9	43.7	86.9	0.8	62	5.4
	i	pP		Z	02:41:28.3				
	e	sP		Z	02:41:51.8				
	e	PcP		Z	02:42:22.3				
	e	pPP		Z	02:43:00.4				
	e				02:43:20.3				
	e	sPP		Z	02:43:34.2				
	e				02:43:56.2				
	e	S		E	02:46:48.2				
	e	sS		E	02:48:15.4				
	e	SS		N	02:50:08.3				
	e				02:50:23.9				
	e				02:51:15.8				
WET	e	P		Z	02:40:40.8	43.9	84.5	1.5	34	4.9
	e	pP		Z	02:41:31.4				
	e	PcP		Z	02:42:24.1				
GUNZ	e	P		Z	02:40:43.0	44.2	85.4	0.9	56	5.3
	e	pP		Z	02:41:33.0				
	e	sP		Z	02:42:00.8				
	e	PcP		Z	02:42:24.6				
WERD	e	P		Z	02:40:43.0	44.2	85.5	1.0	54	5.3
	e	pP		Z	02:41:32.9				
	e	sP		Z	02:42:00.7				
	e	PcP		Z	02:42:24.7				
NOTT	e	P		Z	02:40:45.0	44.4	84.7	1.0	94	5.5
	e	pP		Z	02:41:35.0				
	e	sP		Z	02:42:02.8				
	e	PcP		Z	02:42:24.4				
MOX	e	P		Z	02:40:46.5	44.6	85.2	0.9	61	5.5
	e	pP		Z	02:41:36.5				
	e	sP		Z	02:42:04.3				
	e	PcP		Z	02:42:25.9				
GRA1	e	P		Z	02:40:50.0	44.9	83.9	1.6	248	5.9
	e	pP		Z	02:41:40.1				
	e	sP		Z	02:42:07.9				
	e	PcP		Z	02:42:28.2				
FUR	e	P		Z	02:40:50.5	45.1	82.4	1.4	172	5.8
	e	pP		Z	02:41:40.6				
	e	sP		Z	02:42:08.0				

	e PcP	Z	02:42:27.4					
BSEG	e P	Z	02:40:51.1	45.2	87.5	0.9	142	5.9
	e pP	Z	02:41:41.9					
	e sP	Z	02:42:07.2					
	e PcP	Z	02:42:28.5					
CLZ	e P	Z	02:40:51.8	45.3	85.5	1.4	182	5.8
	e pP	Z	02:41:42.2					
	e PcP	Z	02:42:28.3					
NRDL	e P	Z	02:40:52.8	45.4	85.9	0.9	86	5.8
	e pP	Z	02:41:43.5					
	e sP	Z	02:42:10.4					
	e PcP	Z	02:42:28.7					
STU	e P	Z	02:41:00.4	46.4	81.7	0.8	69	5.8
	e pP	Z	02:41:50.9					
	e PcP	Z	02:42:31.8					
HLG	e P	Z	02:41:02.1	46.6	85.8	1.2	231	6.2
TNS	e P	Z	02:41:02.6	46.7	82.5	1.0	47	5.6
	e pP	Z	02:41:53.2					
	e PcP	Z	02:42:33.0					
IBBN	e P	Z	02:41:04.0	46.8	84.0	0.8	141	6.1
	e pP	Z	02:41:54.5					
	e sP	Z	02:42:21.6					
	e PcP	Z	02:42:34.0					
BFO	e P	Z	02:41:04.7	47.0	80.7	1.0	26	5.3
	e pP	Z	02:41:55.8					
	e sP	Z	02:42:22.9					
	e PcP	Z	02:42:33.7					
BUG	e P	Z	02:41:07.0	47.2	82.8	1.0	98	5.9
	e pP	Z	02:41:57.3					
	e sP	Z	02:42:25.0					
	e PcP	Z	02:42:35.1					
WLF	e P	Z	02:41:14.9	48.2	80.5	0.9	116	6.0
	e pP	Z	02:42:06.2					
	e sP	Z	02:42:32.7					
	e PcP	Z	02:42:39.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	02:44:56.0	26.700S	176.100W	33.0N		5.9		GSRC-M

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e SS	R	03:28:01.6	151.3	17.7					
BSEG	e PKPdf	Z	03:04:48.9	152.4	12.4					
	e SS	R	03:28:09.6							
NRDL	e PKPdf	Z	03:04:47.0	153.8	12.6					
IBBN	e SS	R	03:28:37.2	154.2	7.9					
CLZ	e PKPdf	Z	03:04:48.5	154.4	13.5					

		e SS	R	03:28:35.0						
	CLL	i PKPdf	Z	03:04:48.5	154.4	19.1	0.9	6		
		i PKPbc	Z	03:04:54.7						
		i pPKPbc	Z	03:04:58.6			1.1	28		
		i PKPab	Z	03:05:07.7			1.2	31		
		i pPKPab	Z	03:05:11.6						
		e		03:05:20.9						
		e PP	Z	03:08:40.7						
		e sPP	Z	03:09:04.2						
		e		03:19:15.4						
		e SS	E	03:28:23.3						
		e L	Z	04:37:38.1			15.5	1261		
	BRG	e PKPdf	Z	03:04:49.2	154.6	21.3				
		e PP	Z	03:08:57.0						
		e SS	T	03:28:26.3						
		e SS	R	03:28:34.6						
	MOX	e PKPdf	Z	03:04:47.8	155.3	16.7				
		e SS	R	03:28:42.1						
	WERD	e PKPdf	Z	03:04:48.7	155.4	18.3				
	GUNZ	e PKPdf	Z	03:04:48.0	155.5	18.4				
	NOTT	e PKPdf	Z	03:04:46.6	156.0	18.3				
		e SS	R	03:28:50.9						
	GRA1	e PKPdf	Z	03:04:49.0	156.3	16.5				
		e PP	Z	03:09:00.4						
		e SS	R	03:28:52.9						
		e L	Z	04:20:53.6			19.2	1928	5.9	
	WET	e PKPdf	Z	03:04:48.8	156.5	20.5				
		e PP	Z	03:09:04.4						
		e SS	R	03:28:55.7						
	GEC2	e PKPdf	Z	03:04:48.9	156.6	22.5				
		e PP	Z	03:09:04.3						
		e SS	R	03:28:55.3						
	FUR	e SS	R	03:29:10.1	157.8	17.7				
		e SSS	R	03:35:11.1						
	BFO	e SS	R	03:29:11.6	158.1	10.7				
		e SSS	R	03:35:17.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	04:03:15.5	37.700N	139.660E	33.0N	5.4			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:15:15.4	78.5	38.6	1.4	53	5.4		
BRG	e P	Z	04:15:20.3	79.5	40.8	1.8	52	5.2		
CLL	e P	Z	04:15:20.2	79.5	40.2	1.7	79	5.4		
NRDL	e P	Z	04:15:21.8	79.7	38.3	1.0	17	4.9		
CLZ	e P	Z	04:15:24.3	80.1	38.4	1.3	55	5.3		

WERD	e	P	Z	04:15:25.8	80.5	39.6	1.4	26	5.1
GUNZ	e	P	Z	04:15:26.1	80.5	39.6	1.2	30	5.2
MOX	e	P	Z	04:15:26.4	80.6	39.2	1.5	37	5.2
IBBN	e	P	Z	04:15:27.2	80.7	36.6	1.1	53	5.5
NOTT	e	P	Z	04:15:29.1	81.0	39.4	1.3	41	5.3
GEC2	e	P	Z	04:15:28.9	81.1	40.4	1.2	16	4.9
WET	e	P	Z	04:15:30.0	81.2	39.9	1.4	31	5.3
GRA1	e	P	Z	04:15:31.6	81.5	38.8	1.4	119	5.8
BUG	e	P	Z	04:15:31.6	81.6	36.2	1.3	41	5.4
TNS	e	P	Z	04:15:34.7	82.2	36.9	1.3	28	5.3
FUR	e	P	Z	04:15:37.4	82.7	38.7	1.0	52	5.7
STU	e	P	Z	04:15:39.0	83.0	37.3	1.0	48	5.7
WLF	e	P	Z	04:15:41.9	83.5	35.3	1.5	62	5.6
BFO	e	P	Z	04:15:42.6	83.7	36.7	1.4	76	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	07:00:46.4	28.120N	126.652E	33.0N	4.7			SZGRF

Northwest of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:13:10.9	83.4	53.3	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	07:16:17.7	26.820N	129.680E	33.0N	5.4	5.3		SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	07:28:36.4	82.1	53.8					
BSEG	e P	Z	07:28:45.7	83.9	51.5	1.1	40	5.2		
BRG	e P	Z	07:28:45.7	83.9	53.9	2.0	94	5.4		
	e S	R	07:39:11.3							
CLL	i P	+ Z	07:28:46.5	84.2	53.3	1.0	27	5.2		
	i pP	Z	07:28:54.6							
	i sP	Z	07:28:58.8							
	e		07:29:06.3							
	e PP	Z	07:32:00.8							
	e S	E	07:39:14.9							
	e PS	Z	07:40:08.2							
	e SS	E	07:44:55.2							
	e SSS	E	07:47:28.1							
	e SSSS	E	07:49:35.0							
	e L	Z	08:11:22.6			15.8	2677			
NRDL	e P	Z	07:28:50.6	84.8	51.2	2.0	59	5.3		
WERD	e P	Z	07:28:51.7	85.0	52.7					
GUNZ	e P	Z	07:28:52.1	85.1	52.7					

CLZ	e P	Z	07:28:52.5	85.1	51.4	1.3	38	5.4	
	e S	R	07:39:20.0						
MOX	e P	Z	07:28:53.1	85.3	52.2	2.5	92	5.5	
	e S	R	07:39:22.6						
GEC2	e P	Z	07:28:52.0	85.3	53.6	1.9	47	5.3	
NOTT	e P	Z	07:28:54.2	85.5	52.5	1.9	60	5.4	
WET	e P	Z	07:28:54.4	85.5	53.0	2.2	66	5.4	
	e S	R	07:39:23.5						
GRA1	e P	Z	07:28:57.3	86.0	51.9	1.5	92	5.7	
	e L	Z	08:11:11.0			19.4	1389		5.3
FUR	e P	Z	07:29:01.7	87.0	51.8				
TNS	e P	Z	07:29:02.7	87.1	49.8				
BFO	e P	Z	07:29:08.3	88.4	49.7	1.6	30	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	07:38:33.4				4.6			SZGRF

Vietnam

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:51:08.4			0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	15:25:15.5	23.060S	178.680W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	15:44:58.2	148.4	15.9					
NRDL	e PKPbc	Z	15:45:01.9	149.8	16.2					
CLL	e PKPbc	Z	15:45:03.3	150.3	22.1					
CLZ	e PKPbc	Z	15:45:03.6	150.4	17.0					
BRG	e PKPbc	Z	15:45:04.0	150.5	24.1					
BUG	e PKPbc	Z	15:45:05.6	151.2	11.4					
MOX	e PKPbc	Z	15:45:05.6	151.3	20.0					
WERD	e PKPbc	Z	15:45:05.9	151.3	21.4					
GUNZ	e PKPbc	Z	15:45:06.1	151.4	21.5					
NOTT	e PKPbc	Z	15:45:07.3	151.9	21.5					
GRA1	e PKPbc	Z	15:45:08.0	152.3	19.9					
TNS	e PKPbc	Z	15:45:07.9	152.3	14.2					
WET	e PKPbc	Z	15:45:08.2	152.4	23.4					
GEC2	e PKPbc	Z	15:45:08.4	152.4	25.2					
WLF	e PKPbc	Z	15:45:10.4	153.1	9.9					
STU	e PKPbc	Z	15:45:11.0	153.5	16.4					
BFO	e PKPbc	Z	15:45:12.0	154.1	14.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/20	18:50:38.2	4.700N	95.220E	33.0G	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:02:48.9	80.9	93.8	0.8	12	5.0		
GEC2	e P	Z	19:02:49.3	80.9	93.3	0.8	26	5.3		
WET	e P	Z	19:02:52.1	81.4	92.7	0.9	10	4.8		
CLL	e P	Z	19:02:51.7	81.5	93.1	1.1	10	4.8		
GUNZ	e P	Z	19:02:54.2	81.8	92.5	0.8	8	4.9		
WERD	e P	Z	19:02:54.1	81.9	92.5	0.8	8	4.9		
NOTT	e P	Z	19:02:55.0	82.0	92.2	0.9	7	4.8		
MOX	e P	Z	19:02:56.5	82.3	92.0	0.7	8	4.9		
GRA1	e P	Z	19:02:58.2	82.5	91.5	0.9	15	5.2		
CLZ	e P	Z	19:03:00.8	83.1	91.1	0.8	14	5.3		
BSEG	e P	Z	19:03:01.3	83.2	91.3	0.9	19	5.4		
NRDL	e P	Z	19:03:02.1	83.3	91.0	1.5	23	5.2		
TNS	e P	Z	19:03:07.1	84.3	89.5	0.9	10	5.0		
BFO	e P	Z	19:03:07.0	84.4	89.2	0.8	8	5.0		
BUG	e P	Z	19:03:10.6	85.0	88.7	0.7	14	5.3		
WLF	e P	Z	19:03:15.0	85.8	87.7	1.3	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	01:37:31.3	5.530N	93.210E	24.2	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	01:49:33.5	78.9	94.3	1.3	14	4.9		
BRG	e P	Z	01:49:33.3	78.9	94.9	1.5	11	4.7		
WET	e P	Z	01:49:36.5	79.5	93.7	1.3	13	4.7		
CLL	e P	Z	01:49:36.2	79.6	94.2	0.8	4	4.4		
GUNZ	e P	Z	01:49:38.8	79.9	93.5	1.4	12	4.6		
WERD	e P	Z	01:49:38.7	80.0	93.5	1.4	8	4.5		
NOTT	e P	Z	01:49:39.7	80.0	93.2	1.5	11	4.5		
MOX	e P	Z	01:49:41.2	80.4	93.0	1.4	11	4.6		
FUR	e P	Z	01:49:41.4	80.5	92.3	0.5	10	5.1		
GRA1	e P	Z	01:49:42.9	80.6	92.5	1.3	20	5.0		
	e pP	Z	01:49:49.9							
BSEG	e P	Z	01:49:46.2	81.4	92.5	1.4	15	4.8		
NRDL	e P	Z	01:49:47.0	81.4	92.1	1.6	21	4.9		
STU	e P	Z	01:49:49.2	81.9	90.8	0.7	6	4.9		
TNS	e P	Z	01:49:52.1	82.4	90.5	1.0	5	4.6		
BFO	e P	Z	01:49:52.0	82.5	90.1	1.2	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	05:11:58.7	11.966S	61.559W	101.2	4.8			SZGRF

Brazil

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:24:47.3	88.3	249.2	1.5	8	4.8		
	e pP	Z	05:25:13.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	10:03:44.0	0.990S	76.500W	33.0N	5.3			SZGRF

Ecuador

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	10:16:21.8	86.0	263.7	0.8	100	6.0		
BUG	e P	Z	10:16:25.3	86.9	264.5	1.0	54	5.6		
IBBN	e P	Z	10:16:27.2	87.3	264.8	0.9	29	5.4		
BFO	e P	Z	10:16:26.7	87.3	265.5	1.0	14	5.0		
TNS	e P	Z	10:16:28.6	87.5	265.5	1.2	43	5.7		
STU	e P	Z	10:16:30.1	87.9	266.1	0.7	43	5.9		
NRDL	e P	Z	10:16:34.3	88.7	266.7	0.9	8	4.9		
BSEG	e P	Z	10:16:34.9	88.9	266.8	0.7	8	5.0		
FUR	e P	Z	10:16:36.8	89.3	267.7	0.8	21	5.4		
GRA1	e P	Z	10:16:36.9	89.3	267.6	1.1	24	5.3		
MOX	e P	Z	10:16:38.2	89.6	267.9	0.9	6	4.8		
NOTT	e P	Z	10:16:39.9	89.9	268.3	0.9	13	5.2		
WERD	e P	Z	10:16:40.3	90.0	268.4	0.8	12	5.2		
GUNZ	e P	Z	10:16:40.3	90.0	268.5	0.9	10	5.0		
WET	e P	Z	10:16:42.1	90.3	268.9	0.9	15	5.2		
CLL	e P	Z	10:16:42.2	90.5	269.0	0.9	15	5.2		
GEC2	e P	Z	10:16:44.1	90.9	269.5	0.7	6	5.0		
BRG	e P	Z	10:16:45.2	91.0	269.7	1.0	24	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	10:43:31.4	36.200S	100.700W	15.0N		5.3		NEIC-M

Southeast of Easter Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	11:02:42.0	131.4	261.1					
	i pPKPdf	Z	11:02:49.3			1.5	21			
	e PP	Z	11:05:01.8							
	e PKS	Z	11:06:09.5							
	e PPP	Z	11:08:06.6							
	e SKKSac	E	11:11:58.6							
	e PS	Z	11:15:27.9							
	e PPS	Z	11:16:58.2							

	e SS	E	11:22:57.5						
	e SSS	E	11:27:20.3						
	e L	Z	11:50:14.8			25.8	1127		
GRA1	e PKPdf	Z	11:02:43.5	130.2	258.5				
	e PP	Z	11:04:55.3						
	e SKP	Z	11:06:06.8						
	e SP	Z	11:15:05.5						
	e SKKSdf	T	11:19:47.6						
	e SS	R	11:22:43.3						
	e L	Z	11:51:35.4			21.9	706	5.3	
BSEG	e SKP	Z	11:06:07.5	130.4	261.4				
MOX	e SKP	Z	11:06:08.4	130.6	259.6				
WET	e SKP	Z	11:06:10.1	131.1	259.1				
GEC2	e SKP	Z	11:06:12.3	131.6	259.4				
BRG	e SKP	Z	11:06:13.4	132.1	261.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	12:56:27.4	46.249N	153.398E	33.0N	4.5			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:08:26.2	78.6	25.6	0.9	5	4.5		
GRC3	e P	Z	13:08:21.6	79.2	25.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	15:55:59.0	5.866N	94.795E	33.0N	4.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:08:12.8	81.4	91.1	1.0	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	18:05: 0.2	6.774N	93.675E	33.0N	4.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:17:06.5	80.0	91.3	1.1	5	4.4		
	e pP	Z	18:17:13.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	18:56: 1.2	10.107N	92.916E	33.0N	4.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:07:50.9	76.9	89.7	1.0	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	19:02: 1.9	10.459N	92.869E	33.0N	4.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:13:49.8	76.7	89.5	0.9	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	19:25:23.6	8.108N	94.412E	33.0N	4.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:37:27.0	79.4	89.9	1.0	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	22:41: 8.7	51.600N	179.828E	33.0N	4.3			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:53:05.6	78.2	7.2	1.0	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/21	23:06:35.4	37.190N	21.143E	33.0G	4.1			NRIA-M

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NOTT	e P	Z	23:10:02.7	14.2	149.4					
GRA1	e P	Z	23:10:05.1	14.4	146.5					
BFO	e P	Z	23:10:06.5	14.5	135.3					
GUNZ	e P	Z	23:10:08.2	14.6	151.1					
BRG	e P	Z	23:10:08.3	14.6	156.7					
MOX	e P	Z	23:10:12.7	15.1	149.5	1.2	13			
CLL	e P	Z	23:10:14.8	15.3	154.6	0.8	10			
TNS	e P	Z	23:10:21.9	15.9	140.3	1.2	12			
RUE	e P	Z	23:10:24.9	16.1	158.4					
WLF	e P	Z	23:10:28.5	16.5	133.5	1.0	22			

	BSEG	e P	Z	23:10:47.9	18.3	151.6	0.9	13	4.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/22	06:30:22.4	9.583N	123.388E	33.0N	5.3			SZGRF

Negros, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:43:48.9	96.5	66.8	0.9	8	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/22	07:48:38.4	38.385N	68.805E	33.0N	4.4			SZGRF

Tajikistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:56:25.2	41.8	83.0	1.0	9	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/22	18:42:22.5	42.272N	144.713E	33.0N	4.5			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:54:25.9	79.4	33.1	1.1	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/22	19:41:37.7							

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	19:43:11.6							
TNS	e Pn	Z	19:43:29.1							
	e Sn	E	19:44:51.6							
WLF	e Pn	Z	19:43:08.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/22	20:08:21.6	7.700S	107.600E	33.0N				GSRC-M

Jawa, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z	20:22:05.3	100.0	90.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:37:16.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/23	03:04:58.5	39.440N	73.680E	33.0N	4.7			SZGRF

Tajikistan-Xinjiang border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
KWP	e P	Z	03:12:05.7	37.0	86.1					
OJC	e P	Z	03:12:20.8	38.8	84.8					
MORC	e P	Z	03:12:33.7	40.3	82.7					
ARSA	e P	Z	03:12:47.8	42.0	78.6					
PVCC	e P	Z	03:12:48.4	42.1	81.6					
PRU	e P	Z	03:12:49.5	42.2	81.0					
BRG	e P	Z	03:12:51.3	42.4	81.6	0.8	13	4.7		
MOA	e P	Z	03:12:53.5	42.7	78.5					
OBKA	e P	Z	03:12:54.4	42.8	77.3					
GEC2	e P	Z	03:12:55.7	42.9	79.2	1.1	20	4.8		
KHC	e P	Z	03:12:55.7	42.9	79.5					
CLL	e P	Z	03:12:55.1	42.9	81.4	0.6	12	4.8		
WET	e P	Z	03:12:59.4	43.4	79.0	1.1	15	4.6		
KBA	e P	Z	03:12:59.8	43.5	77.2					
GUNZ	e P	Z	03:13:00.1	43.5	80.0	1.0	8	4.4		
WERD	e P	Z	03:13:00.2	43.5	80.0	1.7	19	4.6		
NOTT	e P	Z	03:13:02.5	43.7	79.2	1.1	8	4.4		
MOX	e P	Z	03:13:03.4	43.9	79.8	0.9	8	4.4		
BSEG	e P	Z	03:13:05.9	44.2	82.2	1.0	16	4.7		
GRA1	e P	Z	03:13:07.7	44.3	78.6	0.9	22	4.9		
CLZ	e P	Z	03:13:07.9	44.5	80.2	1.6	21	4.8		
NRDL	e P	Z	03:13:08.7	44.5	80.6					
FUR	e P	Z	03:13:09.6	44.6	77.1	1.1	39	5.3		
DAVA	e P	Z	03:13:17.6	45.7	75.4					
STU	e P	Z	03:13:18.8	45.8	76.4					
TNS	e P	Z	03:13:19.1	46.0	77.3					
BFO	e P	Z	03:13:23.7	46.5	75.5	1.1	12	4.9		
WLF	e P	Z	03:13:32.6	47.5	75.4	1.2	19	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/23	10:08:28.0	26.400S	176.600W	33.0N				GSRC-M

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKP	Z	10:28:13.6	154.5	19.2					
	i PKPdf	- Z	10:28:18.6			1.6	25			
	i PKPbc	Z	10:28:27.2			1.6	69			
	i PKPab	Z	10:28:38.3			1.1	29			
	i		10:28:57.4							
	e PP	Z	10:32:35.0							
	e PPS	Z	10:45:12.2							
	e SS	E	10:51:58.2							
	e L	Z	12:01:04.6			17.2	407			
GRA1	e PP	Z	10:28:21.1	155.9	17.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/23	12:37:16.1				4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:49:06.3			1.0	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/23	18:29:49.8	5.621S	68.611E	33.0N	4.6			SZGRF

Chagos Archipelago region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:41:23.7	74.2	119.4	1.4	9	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/24	13:54:33.9	1.849S	12.224W	33.0N	5.3	4.8		SZGRF

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:04:04.9	55.3	208.9	1.9	59	5.3		
	e S	N	14:11:46.7							
	e L	Z	14:26:33.3			20.7	813		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/24	21:45:11.0	4.540N	95.150E	51.0	5.4			SZGRF

Northern Sumatera, Indonesia

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

BRG	e P	Z	21:57:19.7	80.9	94.0	1.1	28	5.2
GEC2	e P	Z	21:57:20.1	81.0	93.5	0.9	49	5.5
	e sP	Z	21:57:39.9					
RUE	e P	Z	21:57:20.9	81.1	94.1			
	e pP	Z	21:57:35.6					
WET	e P	Z	21:57:22.9	81.5	92.9	0.9	24	5.3
CLL	e P	Z	21:57:22.5	81.6	93.3	1.2	23	5.2
GUNZ	e P	Z	21:57:24.9	81.9	92.6			
WERD	e P	Z	21:57:25.1	81.9	92.6			
NOTT	i P	Z	21:57:25.9	82.0	92.4	1.1	18	5.1
MOX	e P	Z	21:57:27.3	82.4	92.1	2.3	90	5.5
FUR	e P	Z	21:57:27.8	82.5	91.5	0.9	26	5.4
GRA1	e P	Z	21:57:29.0	82.6	91.7	1.0	34	5.5
	e pP	Z	21:57:44.0					
CLZ	e P	Z	21:57:31.5	83.2	91.3	0.9	27	5.5
BSEG	e P	Z	21:57:32.0	83.3	91.5	1.0	47	5.7
	e sP	Z	21:57:51.6					
NRDL	e P	Z	21:57:32.7	83.4	91.2			
	e pP	Z	21:57:48.0					
TNS	e P	Z	21:57:37.9	84.4	89.6	0.9	20	5.3
BFO	e P	Z	21:57:37.7	84.5	89.3	0.9	16	5.2
IBBN	e P	Z	21:57:39.9	84.8	89.3			
	e pP	Z	21:57:54.9					
WLF	e P	Z	21:57:45.6	85.9	87.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/24	23:27:30.8	4.318N	95.193E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:39:42.7	81.1	94.1					
GEC2	e P	Z	23:39:43.3	81.2	93.6	0.9	9	4.8		
WET	e P	Z	23:39:46.1	81.7	93.0	1.0	6	4.7		
NOTT	e P	Z	23:39:49.2	82.2	92.5					
MOX	e P	Z	23:39:50.5	82.6	92.2	0.7	2	4.5		
GRA1	e P	Z	23:39:52.1	82.8	91.8	1.0	9	5.0		
CLZ	e P	Z	23:39:54.7	83.4	91.4	0.9	6	4.8		
BSEG	e P	Z	23:39:55.6	83.5	91.6	0.8	10	5.1		
TNS	e P	Z	23:40:01.4	84.6	89.7	1.0	7	4.8		
BFO	e P	Z	23:40:01.3	84.7	89.5	1.2	5	4.6		
IBBN	e P	Z	23:40:03.3	85.0	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/25	22:03: 6.3	20.870S	170.880E	33.0G				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	22:22:38.7	145.0	39.6					
CLL	e PKPbc	Z	22:22:38.5	145.0	37.8					
NRDL	e PKPbc	Z	22:22:39.1	145.1	32.5					
CLZ	e PKPbc	Z	22:22:41.0	145.5	33.4					
WERD	e PKPbc	Z	22:22:42.3	146.0	37.6					
IBBN	e PKPbc	Z	22:22:42.3	146.0	29.0					
GUNZ	e PKPbc	Z	22:22:42.3	146.0	37.7					
MOX	e PKPbc	Z	22:22:42.2	146.1	36.3					
NOTT	e PKPbc	Z	22:22:43.8	146.5	37.9					
GEC2	e PKPbc	Z	22:22:44.2	146.6	41.2					
WET	e PKPbc	Z	22:22:44.6	146.7	39.7					
GRA1	e PKPbc	Z	22:22:45.5	147.0	36.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/26	04:29:15.3	3.660N	94.140E	33.0N	5.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:41:25.2	81.0	94.8	1.4	51	5.3		
BRG	e P	Z	04:41:25.3	81.0	95.3	2.1	46	5.2		
WET	e P	Z	04:41:27.9	81.5	94.2	1.6	34	5.2		
CLL	e P	Z	04:41:28.2	81.6	94.6					
NOTT	e P	Z	04:41:31.5	82.1	93.7	2.6	58	5.3		
MOX	e P	Z	04:41:33.0	82.4	93.5	1.6	28	5.1		
FUR	e P	Z	04:41:33.3	82.5	92.9					
GRA1	e P	Z	04:41:34.8	82.6	93.0	1.2	23	5.3		
CLZ	e P	Z	04:41:37.1	83.3	92.6	2.0	48	5.4		
BSEG	e P	Z	04:41:38.0	83.4	92.8	1.4	22	5.2		
NRDL	e P	Z	04:41:38.7	83.5	92.5					
TNS	e P	Z	04:41:43.5	84.4	91.0					
BFO	e P	Z	04:41:43.1	84.5	90.7	2.0	38	5.3		
WLF	e P	Z	04:41:50.9	85.9	89.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/26	08:24: 0.1	11.050N	119.180E	129.1	5.7	5.1		SZGRF

Palawan, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:36:48.8	90.8	71.3	2.2	156	6.0		
	e pP	Z	08:37:21.8							
CLL	e P	Z	08:36:50.2	91.2	70.5	2.1	90	5.7		
	e PPS	E	08:50:32.5							
GEC2	e P	Z	08:36:52.5	91.6	71.1	1.5	50	5.6		

BSEG	e P	Z	08:36:53.4	91.8	68.3	1.1	27	5.5	
	e pP	Z	08:37:26.4						
WET	e P	Z	08:36:54.1	92.0	70.5	1.6	51	5.6	
NOTT	e P	Z	08:36:55.5	92.3	69.9	1.8	66	5.7	
MOX	e P	Z	08:36:55.4	92.3	69.5	2.2	112	5.8	
NRDL	e P	Z	08:36:56.2	92.5	68.2				
	e pP	Z	08:37:29.6						
CLZ	e P	Z	08:36:57.1	92.6	68.4	1.4	32	5.6	
GRA1	e P	Z	08:36:58.6	92.8	69.2	1.9	89	5.9	
	e L	Z	09:26:31.8			20.5	648		5.1
FUR	e P	Z	08:37:00.3	93.4	69.3	1.9	92	5.9	
IBBN	e P	Z	08:37:02.8	93.9	66.3				
TNS	e P	Z	08:37:04.6	94.3	67.0	1.8	47	5.5	
STU	e P	Z	08:37:05.1	94.4	67.7				
BFO	e P	Z	08:37:08.0	95.1	67.1	1.6	22	5.3	
WLF	e P	Z	08:37:12.3	95.9	65.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/26	10:59:44.7	19.715S	171.095E	33.0N				SZGRF

Vanuatu Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	11:19:16.8	144.9	28.0					
MOX	e PKPbc	Z	11:19:17.0	145.1	35.2					
NOTT	e PKPbc	Z	11:19:19.1	145.6	36.7					
GEC2	e PKPbc	Z	11:19:18.9	145.7	39.9					
WET	e PKPbc	Z	11:19:19.5	145.8	38.4					
GRA1	e PKPbc	Z	11:19:20.5	146.0	35.4					
GRFO	e PKPbc	Z	11:19:20.5	146.0	35.4					
TNS	e PKPbc	Z	11:19:21.8	146.5	30.6					
FUR	e PKPbc	Z	11:19:24.0	147.2	36.9					
STU	e PKPbc	Z	11:19:24.7	147.5	33.0					
WLF	e PKPbc	Z	11:19:26.4	147.7	27.3					
BFO	e PKPbc	Z	11:19:26.6	148.2	31.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/27	11:35:53.9	19.784N	108.290W	33.0N	5.9	6.0		SZGRF

Revilla Gigedo Islands, Mexico, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:49:01.5	92.4	305.0	2.4	130	5.9		
	e PP	Z	11:52:37.8							
	e SP	Z	12:01:13.8							
	e SS	E	12:06:20.5							
	e L	Z	12:30:42.6			20.3	5080		6.0	

CLL	e P	Z	11:49:01.7	92.9	305.0		
	e PP	Z	11:52:40.8				
	e		11:53:45.1				
	e PPPP	Z	11:56:00.1				
	e SKSac	E	11:59:26.9				
	e S	E	12:00:04.7				
	e SP	E	12:01:07.3				
	e PS	E	12:01:18.7				
	e PPS	Z	12:01:46.9				
	e SS	N	12:06:16.4				
	e L	Z	12:31:03.1		17.6	8950	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/27	12:41: 4.0	30.835N	131.576E	33.0N	5.2			SZGRF

Kyushu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:53:16.8	81.3	48.0	0.8	14	5.1		
BRG	e P	Z	12:53:18.4	81.6	50.3	0.6	8	5.0		
CLL	e P	Z	12:53:19.3	81.8	49.6	0.6	39	5.7		
CLZ	e P	Z	12:53:24.4	82.6	47.8	0.8	21	5.4		
WERD	e P	Z	12:53:24.3	82.7	49.0					
GUNZ	e P	Z	12:53:24.2	82.7	49.1					
MOX	e P	Z	12:53:25.3	82.9	48.6	0.8	6	4.9		
GEC2	e P	Z	12:53:25.6	83.0	49.9	0.7	6	5.0		
NOTT	e P	Z	12:53:27.0	83.2	48.9	1.0	14	5.1		
WET	e P	Z	12:53:27.2	83.2	49.3	0.8	6	4.8		
IBBN	e P	Z	12:53:28.3	83.5	45.9					
GRA1	e P	Z	12:53:29.8	83.7	48.2	0.8	40	5.7		
TNS	e P	Z	12:53:34.4	84.6	46.2	0.9	22	5.4		
FUR	e P	Z	12:53:34.7	84.7	48.1	0.9	52	5.7		
STU	e P	Z	12:53:37.3	85.3	46.7					
BFO	e P	Z	12:53:40.7	86.0	46.0	1.2	11	4.8		
WLF	e P	Z	12:53:41.8	86.1	44.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/28	15:46:20.7	29.570S	175.630W	33.0N		6.0		SZGRF

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	16:06:12.0	155.3	12.4					
	e PKPab	Z	16:06:36.0							
RUE	e PKPdf	Z	16:06:13.1	156.1	20.5					
	e PKPab	Z	16:06:38.6							
NRDL	e PKPdf	Z	16:06:14.0	156.7	12.7					

	e PKPab	Z	16:06:40.7						
IBBN	e PKPdf	Z	16:06:14.4	157.1	7.6				
CLZ	e PKPdf	Z	16:06:14.8	157.3	13.6				
	e PKPab	Z	16:06:43.8						
CLL	e PKPdf	Z	16:06:15.0	157.3	19.8				
	e PKPbc	Z	16:06:24.1			0.1	65		
	e pPKPbc	Z	16:06:32.1						
	e PKPab	Z	16:06:38.7						
	e		16:06:58.0						
	e sPP	Z	16:10:31.2						
	e SS	E	16:29:55.5						
	e L	Z	17:24:23.4			18.2	1672		
BRG	e PKPdf	Z	16:06:15.0	157.5	22.2				
	e PKPab	Z	16:06:48.2						
BUG	e PKPdf	Z	16:06:15.8	158.0	6.8				
	e PKPab	Z	16:06:49.1						
MOX	e PKPdf	Z	16:06:15.8	158.2	17.2				
	e PKPab	Z	16:06:49.9						
NOTT	e PKPdf	Z	16:06:16.6	158.9	19.0				
	e PKPab	Z	16:06:50.7						
TNS	e PKPdf	Z	16:06:16.5	159.1	10.0				
	e PKPab	Z	16:06:51.6						
GRA1	e PKPdf	Z	16:06:16.9	159.2	17.0				
	e PKPab	Z	16:06:52.2						
	e PP	Z	16:10:25.7						
	e SS	E	16:30:19.4						
	e L	Z	17:22:30.2			18.2	1805	6.0	
WET	e PKPdf	Z	16:06:17.1	159.4	21.4				
	e PKPab	Z	16:06:52.9						
GEC2	e PKPdf	Z	16:06:17.1	159.5	23.7				
	e PKPab	Z	16:06:53.0						
STU	e PKPdf	Z	16:06:18.5	160.4	12.6				
FUR	e PKPdf	Z	16:06:18.7	160.7	18.4				
BFO	e PKPdf	Z	16:06:19.0	161.0	10.6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/28	21:41:10.0	16.313S	176.473W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	22:00:39.6	143.9	6.9					
CLZ	e PKPbc	Z	22:00:40.2	144.1	11.2					
CLL	e PKPbc	Z	22:00:40.4	144.2	15.7					
BRG	e PKPbc	Z	22:00:41.2	144.4	17.4					
BUG	e PKPbc	Z	22:00:42.2	144.7	6.2					
MOX	e PKPbc	Z	22:00:43.5	145.1	13.6					
WERD	e PKPbc	Z	22:00:43.7	145.1	14.9					

NOTT	e PKPbc	Z	22:00:45.9	145.8	14.8	
GRA1	e PKPbc	Z	22:00:46.7	146.0	13.3	
WET	e PKPbc	Z	22:00:47.3	146.3	16.3	
GEC2	e PKPbc	Z	22:00:47.4	146.4	17.9	
WLF	e PKPbc	Z	22:00:48.9	146.6	4.6	
FUR	e PKPbc	Z	22:00:50.3	147.5	13.9	
BFO	e PKPbc	Z	22:00:51.2	147.7	8.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	04:40:58.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/29	14:10:28.9	18.844S	178.988E	33.0N				SZGRF

Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	14:30:02.3	145.2	18.7					
CLL	e PKPbc	Z	14:30:03.5	145.7	24.0					
CLZ	e PKPbc	Z	14:30:04.4	145.8	19.4					
IBBN	e PKPbc	Z	14:30:04.6	145.8	14.9					
BRG	e PKPbc	Z	14:30:04.0	145.8	25.8					
WERD	e PKPbc	Z	14:30:06.8	146.7	23.4					
NOTT	e PKPbc	Z	14:30:08.4	147.3	23.5					
GRA1	e PKPbc	Z	14:30:09.5	147.6	22.0					
WET	e PKPbc	Z	14:30:09.5	147.7	25.2					
TNS	e PKPbc	Z	14:30:09.9	147.7	16.9					
GEC2	e PKPbc	Z	14:30:09.6	147.7	26.8					
FUR	e PKPbc	Z	14:30:13.4	149.0	23.0					
BFO	e PKPbc	Z	14:30:14.2	149.6	17.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/30	00:35: 5.6	55.251N	178.627W	33.0N	4.5			SZGRF

Bering Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:46:42.6	74.7	5.8	1.2	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2005/06/30 13:48:29.7 10.900S 162.300E 61.0N NEIC-M
Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPdf	- Z	14:07:37.4	132.6	42.9	0.9	17			
	e		14:07:44.3							
	i pPKPdf	Z	14:07:58.9							
	i PP	Z	14:10:00.6							
	e pPP	Z	14:10:21.7							
	e PKS	Z	14:11:07.1							
	e PPS	Z	14:21:48.9							
	e SS	E	14:27:40.9							
	e		14:29:02.4							
	e SSS	E	14:33:17.2							
	e L	Z	15:08:58.2			19.2	1209			
GRA1	e PKPdf	Z	14:07:40.9	134.4	41.7					
	e PP	Z	14:10:14.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/30	16:02:52.0				4.5			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:14:30.6			1.5	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/06/30	21:26:35.0	9.130N	83.270W	33.0N	5.4	6.2		SZGRF

Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	21:38:55.7	82.7	275.5	2.2	67	5.5		
	e S	R	21:49:15.4							
BUG	e P	Z	21:38:58.5	83.2	276.1	3.1	172	5.7		
HLG	e P	Z	21:38:59.7	83.3	276.3					
	e S	R	21:49:20.6							
IBBN	e P	Z	21:39:00.2	83.4	276.4	0.6	17	5.5		
TNS	e P	Z	21:39:02.8	84.1	277.2	2.2	52	5.4		
	e S	R	21:49:27.6							
BFO	e P	Z	21:39:02.8	84.2	277.3	4.8	448	6.0		
	e S	R	21:49:26.3							
BSEG	e P	Z	21:39:06.3	84.7	278.3	2.3	71	5.5		
	e S	R	21:49:30.6							
STU	e P	Z	21:39:05.9	84.8	277.9	2.4	77	5.5		
NRDL	e P	Z	21:39:06.6	84.8	278.2	2.9	120	5.6		
CLZ	e P	Z	21:39:08.5	85.1	278.5	2.4	92	5.6		

GRA1	e	P	Z	21:39:12.3	85.9	279.3	2.4	69	5.4	
	e	L	Z	22:11:53.5			21.6	11051		6.2
MOX	e	P	Z	21:39:13.5	86.0	279.6	3.0	111	5.5	
	e	S	R	21:49:42.2						
FUR	e	P	Z	21:39:14.6	86.2	279.5				
NOTT	e	P	Z	21:39:16.0	86.5	280.0	2.6	90	5.4	
WERD	e	P	Z	21:39:15.6	86.5	280.1	2.0	39	5.2	
CLL	i	P	Z	21:39:18.4	86.8	280.6	1.7	30	5.2	
	i	pP	Z	21:39:28.1						
	e			21:39:39.9						
	e	PP	Z	21:42:43.6						
	e	SKSac	E	21:49:40.8						
	e	S	N	21:49:54.7						
	e	sS	E	21:50:08.6						
	e	PS	E	21:50:53.9						
	e			21:52:35.4						
	e	SS	E	21:55:37.1						
	e	SSS	E	21:59:18.1						
	e	SSSS	N	22:02:08.0						
	e	L	Z	22:15:40.8			19.0	3103		
WET	e	P	Z	21:39:18.1	87.1	280.6	1.8	37	5.2	
BRG	e	P	Z	21:39:20.0	87.4	281.3	1.2	16	5.2	
GEC2	e	P	Z	21:39:20.8	87.7	281.2	1.4	16	5.2	

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