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)

DECEMBER 2004 UPDATED 12.JULY.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
2004/12/01	11:45:49.1	32.243N	92.226E	33.0N	4.5			SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:55:56.2	60.5	73.7	0.9	8	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:09:20.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/01	23:17:20.8	3.685S	135.528E	10G	5.4	5.3		NEIC-M

Papua, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKiKP	Z	23:35:57.8	106.7	61.5					
	e PP	Z	23:36:47.7							
	e LR	Z	00:12:59.3							
	e L	Z	00:29:43.8			18.0	693		5.3	
GRA1	e PP	Z	23:37:01.7	108.5	60.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	03:29:58.5	36.000N	33.670W	33.0N				SZGRF

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	03:36:31.7	33.0	263.9	1.4	33			
CLZ	e P	Z	03:36:47.1	34.8	260.5	3.4	183			
GRA1	e P	Z	03:36:48.5	35.0	264.3	1.0	11			
BSEG	e P	Z	03:36:49.8	35.1	257.5	1.7	98			
MOX	e P	Z	03:36:52.1	35.4	263.3	1.4	18			
WERD	e P	Z	03:36:55.9	35.8	264.2	1.4	17			
CLL	e P	Z	03:37:00.9	36.3	263.6	1.2	13			
GEC2	e P	Z	03:37:02.4	36.6	267.5	1.4	14			
BRG	e P	Z	03:37:04.8	36.9	265.0	1.3	12			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	04:17:23.0	50.580N	175.400W	33.0N	5.0			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:29:06.1	75.4	3.7	0.9	16	5.1		
NRDL	e P	Z	04:29:14.1	76.8	3.6	1.2	18	5.1		
IBBN	e P	Z	04:29:15.6	77.1	2.1	0.9	25	5.3		
CLZ	e P	Z	04:29:17.8	77.5	3.8	0.9	21	5.3		
CLL	e P	Z	04:29:19.4	77.9	5.4	0.9	16	5.2		
BUG	e P	Z	04:29:20.0	78.0	1.7	0.8	14	5.2		
BRG	e P	Z	04:29:21.8	78.2	6.0	0.9	14	5.0		
MOX	e P	Z	04:29:24.0	78.6	4.5	0.9	15	5.1		
GUNZ	e P	Z	04:29:25.3	78.8	5.0	1.0	10	4.8		
GRA1	e P	Z	04:29:29.6	79.6	4.3	0.8	24	5.2		
GEC2	e P	Z	04:29:33.2	80.3	5.8	1.1	9	4.7		
STU	e P	Z	04:29:34.7	80.6	3.0	0.8	15	5.1		
BFO	e P	Z	04:29:37.0	81.0	2.4	1.1	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	10:28: 3.0	48.930N	154.200E	143.7	5.3			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:39:17.3	72.7	23.9	0.9	26	5.4		
	e pP	Z	10:39:53.2							
NRDL	e P	Z	10:39:25.4	74.1	23.6	0.9	16	5.0		
CLL	i P	+ Z	10:39:26.8	74.4	25.3	1.0	46	5.6		
	e		10:40:02.7							
	e LQ	T	11:04:18.1							
	e L	Z	11:18:33.3			18.0	622		5.0	

BRG	e P	Z	10:39:27.8	74.6	25.8	0.7	12	5.0
CLZ	e P	Z	10:39:28.7	74.6	23.7	1.3	54	5.4
WERD	e P	Z	10:39:32.7	75.4	24.8	1.5	29	5.2
MOX	e P	Z	10:39:32.8	75.4	24.4	1.2	25	5.2
	e pP	Z	10:40:08.5					
GUNZ	e P	Z	10:39:33.4	75.5	24.8	0.9	17	5.2
UBBA	e P	Z	10:39:34.3	75.7	23.4	0.9	19	5.2
	e pP	Z	10:40:09.8					
BUG	e P	Z	10:39:34.5	75.7	21.7	0.9	25	5.4
GRA1	e P	Z	10:39:38.9	76.4	24.0	1.0	47	5.6
	e pP	Z	10:40:13.6					
GEC2	e P	Z	10:39:38.8	76.5	25.5	0.9	12	5.0
BFO	e P	Z	10:39:49.5	78.4	22.1	1.6	48	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	11:02:58.2	19.470S	178.080W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	11:22:30.4	144.9	13.9					
NRDL	e PKPbc	Z	11:22:35.5	146.4	14.0					
IBBN	e PKPbc	Z	11:22:36.8	146.8	10.1					
CLZ	e PKPbc	Z	11:22:37.3	147.0	14.7					
CLL	e PKPbc	Z	11:22:36.8	147.0	19.4					
BRG	e PKPbc	Z	11:22:37.6	147.2	21.3					
WERD	e PKPbc	Z	11:22:39.9	147.9	18.7					
GUNZ	e PKPbc	Z	11:22:40.4	148.0	18.8					
GRA1	e PKPbc	Z	11:22:42.7	148.9	17.1					
	e PKPab	Z	11:22:46.2							
GEC2	e PKPbc	Z	11:22:43.2	149.1	22.0					
WLF	e PKPbc	Z	11:22:44.8	149.6	7.9					
	e PKPab	Z	11:22:49.0							
BFO	e PKPbc	Z	11:22:46.8	150.7	12.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	12:54:27.5	40.500N	77.500E	70.0N	4.7			GSRC-M

Kyrgyzstan-Xinjiang border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:02:50.3	46.1	75.0	1.5	12	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	14:48:15.7	17.618N	60.545W	33.0N	5.1			SZGRF

Leeward Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:58:52.4	64.9	268.0	1.1	12	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	15:52: 1.6	39.563N	26.871E	33.0N				SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:55:36.8	15.0	126.5	1.0	13			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	17:50:44.8	34.130N	2.220W	33.0N	4.5	4.1		SZGRF

Morocco

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	17:54:32.9	16.2	212.8	1.2	29	4.3		
WLF	e P	Z	17:54:37.1	16.7	204.8	1.0	45	4.6		
FUR	e P	Z	17:54:42.5	17.3	220.6	1.4	49	4.4		
GRA1	e P	Z	17:54:56.5	18.4	217.5	1.4	52	4.5		
	e L	Z	18:01:30.8			18.8	847		4.1	
BUG	e P	Z	17:54:58.0	18.6	205.3					
GEC2	e P	Z	17:55:01.8	18.9	224.6	1.1	13	4.1		
MOX	e P	Z	17:55:07.2	19.3	216.7	1.5	33	4.3		
CLZ	e P	Z	17:55:13.3	19.9	212.0	1.5	28	4.3		
NRDL	e P	Z	17:55:18.5	20.4	210.5	1.7	43	4.4		
CLL	i P	+ Z	17:55:18.0	20.4	218.6	1.1	14	4.1		
	e S	N	17:59:04.7							
	e LR	Z	18:00:11.3							
	e L	Z	18:03:13.7			18.0	401		3.8	
BRG	e P	Z	17:55:18.5	20.5	221.3	1.7	68	4.6		
RUE	e P	Z	17:55:31.8	21.6	218.3	1.4	67	4.9		
BSEG	e P	Z	17:55:31.2	21.7	209.1	1.5	72	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/02	19:16:29.4	9.610N	61.250W	33.0N	5.4	5.2		SZGRF

Near coast of Venezuela

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:27:26.3	68.1	258.8					
BUG	e P	Z	19:27:33.6	69.2	259.0	1.4	47	5.4		
BFO	e P	Z	19:27:33.6	69.3	261.0					

IBBN	e	P		Z	19:27:35.7	69.6	259.1	1.1	82	5.8
STU	e	P		Z	19:27:38.1	69.9	261.5	0.8	68	5.8
CLZ	e	P		Z	19:27:44.9	71.1	261.4	1.2	41	5.4
GRA1	e	P		Z	19:27:46.6	71.4	262.8	1.2	42	5.4
	e	L		Z	19:55:16.7			22.0	1391	5.2
BSEG	e	P		Z	19:27:46.8	71.4	260.7	1.0	34	5.4
MOX	e	P		Z	19:27:48.3	71.7	262.8	1.0	12	5.0
WERD	e	P		Z	19:27:51.0	72.2	263.4	1.1	20	5.2
GUNZ	e	P		Z	19:27:50.9	72.2	263.5	1.0	16	5.1
CLL	i	P	+	Z	19:27:54.6	72.7	263.7	1.0	32	5.4
	e	pP		Z	19:28:09.5					
	e	S		T	19:37:15.6					
	e	SS		T	19:41:57.6					
	e	LQ		T	19:46:55.9					
	e	LR		R	19:50:57.1					
	e	L		Z	19:55:38.5			22.0	1576	5.2
GEC2	e	P		Z	19:27:55.6	72.9	265.0	1.1	47	5.4
BRG	e	P		Z	19:27:57.7	73.2	264.6	1.1	34	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/03	03:46:44.4	9.990N	61.200W	41.9	5.1	4.9		SZGRF

Near coast of Venezuela

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e	P		Z	03:57:38.5	67.8	259.0	0.8	19	5.4	
	e	pP		Z	03:57:50.3						
BUG	e	P		Z	03:57:44.9	68.8	259.2	0.6	12	5.3	
IBBN	e	P		Z	03:57:47.9	69.3	259.3	0.7	37	5.7	
	e	pP		Z	03:57:59.5						
STU	e	P		Z	03:57:49.4	69.6	261.8	0.7	33	5.6	
NRDL	e	P		Z	03:57:56.8	70.7	261.2	0.9	12	5.1	
	e	pP		Z	03:58:09.1						
CLZ	e	P		Z	03:57:57.1	70.8	261.6	0.8	11	5.0	
	e	pP		Z	03:58:09.2						
GRA1	e	P		Z	03:57:58.6	71.1	263.0	0.9	11	5.0	
	e	pP		Z	03:58:10.6						
	e	L		Z	04:25:57.0			20.9	653	4.9	
BSEG	e	P		Z	03:57:58.5	71.1	260.9	1.1	18	5.1	
MOX	e	P		Z	03:58:00.5	71.4	263.0	0.7	3	4.5	
WERD	e	P		Z	03:58:03.2	71.8	263.6	0.8	6	4.8	
GUNZ	e	P		Z	03:58:03.5	71.8	263.7	0.8	5	4.7	
CLL	i	P	-	Z	03:58:06.1	72.4	263.9	1.0	9	4.9	
	e	pP		Z	03:58:18.1						
	e	S		E	04:07:25.2						
	e	SS		N	04:12:08.5						
	e	SSS		N	04:15:53.3						
	e	LR		Z	04:20:46.1						

		e L	Z	04:27:32.7			22.0	610		4.8
	GEC2	e P	Z	03:58:07.7	72.6	265.3	0.9	16	5.2	
	BRG	e P	Z	03:58:09.9	72.9	264.8	0.9	10	5.0	
		e pP	Z	03:58:21.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/03	08:13:16.9	43.129N	15.156E	10.0G			5.1	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	08:14:41.5	5.8	169.4					4.8
	e Sn	N	08:15:47.3							
BFO	e Pn	Z	08:15:00.1	7.0	135.0					4.8
	e Sn	E	08:16:16.5							
GRA1	e Sn	N	08:16:16.8	7.1	156.1					5.3
TANN	e Pn	Z	08:15:05.8	7.5	164.8					5.1
	e Sn	E	08:16:28.6							
BRG	e Pn	Z	08:15:09.1	7.8	173.5					5.0
MOX	e Pn	Z	08:15:09.8	7.9	160.8					5.1
	e Sn	N	08:16:35.7							
CLL	e Pn	Z	08:15:16.2	8.3	169.1					5.4
	e Sn	E	08:16:46.7							
CLZ	e Pn	Z	08:15:30.4	9.3	157.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/03	14:59:14.2	34.394S	179.317E	155G	5.2			NEIC-M

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	15:18:55.2	160.4	35.7					
	e PKPab	Z	15:19:35.1			1.3	23			
	e sPKPab	Z	15:20:35.5							
GRA1	e PKPdf	Z	15:18:56.7	162.4	34.3					
	e PKPab	Z	15:19:42.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	02:16:10.3	42.999N	15.576E	10.0G			4.1	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	02:17:05.8	3.6	167.9					4.5
	e Sg	E	02:18:04.1							
ARSA	e Pn	Z	02:17:14.6	4.3	179.5					3.9

KBA	e Pn	Z	02:17:16.5	4.4	158.1		4.0
	e Sn	N	02:18:06.8				
MOA	e Pn	Z	02:17:24.5	4.9	168.8		3.9
	e Sn	E	02:18:20.1				
WTTA	e Pn	Z	02:17:26.4	5.1	145.5		
DAVA	e Pn	Z	02:17:37.3	5.9	134.8		
FUR	e Pn	Z	02:17:38.3	6.0	148.2		
GEC2	e Pn	Z	02:17:38.2	6.0	166.7		
	e Sn	E	02:18:45.1				
GRA1	e Pn	Z	02:17:57.2	7.3	154.2		
	e Sn	N	02:19:17.1				
BFO	e Pn	Z	02:17:55.7	7.3	133.8		
TANN	e Pn	Z	02:18:02.2	7.7	162.8		
	e Sn	N	02:19:24.7				
BRG	e Pn	Z	02:18:04.5	8.0	171.3		
MOX	e Pn	Z	02:18:06.5	8.1	159.0		
	e Sn	N	02:19:34.8				
CLZ	e Pn	Z	02:18:26.8	9.5	156.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	10:16:24.2	39.884N	40.845E	5.0G	4.2			kan-m

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:21:33.6	23.0	103.9	1.1	8	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	10:29:59.8	35.009N	3.021W	10.0G	4.8	5.0		mad-m

Strait of Gibraltar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	10:33:42.7	15.8	216.4	2.8	404	5.1		
WLF	e P	Z	10:33:48.0	16.1	208.1	2.8	1187	5.5		
STU	e P	Z	10:33:51.8	16.4	217.7	1.9	133	4.8		
FUR	e P	Z	10:33:56.2	16.9	224.1	1.7	150	4.8		
GRA1	e P	Z	10:34:10.5	18.0	220.7	1.4	78	4.7		
	e S	N	10:37:35.4							
	e L	Z	10:42:17.6			10.6	4039		5.0	
BUG	e P	Z	10:34:14.0	18.0	208.2	1.5	88	4.7		
UBBA	e P	Z	10:34:15.1	18.4	215.8	2.4	114	4.6		
GEC2	e P	Z	10:34:14.8	18.5	227.9	1.4	54	4.6		
MOX	e P	Z	10:34:21.0	18.9	219.7	2.5	292	5.1		
IBBN	e P	Z	10:34:23.3	18.9	208.2	1.6	80	4.7		
GUNZ	e P	Z	10:34:22.9	19.0	221.8	1.7	73	4.6		
WERD	e P	Z	10:34:23.3	19.0	221.6	2.5	180	4.9		

CLZ	e P	Z	10:34:28.2	19.4	214.9	1.6	55	4.5
NRDL	e P	Z	10:34:33.0	19.8	213.3	1.7	100	4.8
BRG	e P	Z	10:34:34.7	20.0	224.2	1.5	115	4.9
BSEG	e P	Z	10:34:45.7	21.1	211.7	1.5	167	5.2
RUE	e P	Z	10:34:46.1	21.2	221.0	1.3	125	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	11:05: 0.6	18.416S	177.028W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	11:24:30.9	144.0	11.9					
CLZ	e PKPbc	Z	11:24:37.5	146.1	12.6					
BRG	e PKPbc	Z	11:24:37.9	146.4	19.0					
WERD	e PKPbc	Z	11:24:40.2	147.1	16.5					
GUNZ	e PKPbc	Z	11:24:40.5	147.2	16.5					
GRA1	e PKPbc	Z	11:24:42.3	148.0	14.9					
GEC2	e PKPbc	Z	11:24:43.2	148.4	19.7					
WLF	e PKPbc	Z	11:24:44.8	148.6	5.8					
BFO	e PKPbc	Z	11:24:47.0	149.8	10.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	20:39:32.4	42.960N	14.919E	10.0G			3.3	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	20:40:27.7	3.6	175.6					3.5
	e Sg	E	20:41:25.6							
KBA	e Pn	Z	20:40:38.1	4.3	164.3					3.2
ARSA	e Pn	Z	20:40:36.9	4.3	185.9					
MOA	e Pn	Z	20:40:46.5	4.9	174.4					
GEC2	e Pn	N	20:40:59.5	5.9	171.4					
	e Sn	N	20:42:06.0							
GUNZ	e Pn	Z	20:41:23.0	7.6	165.6					
MOX	e Pn	Z	20:41:27.3	8.0	162.4					
	e Sn	N	20:42:54.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	21:03:42.6	42.990N	15.472E	10.0G			3.4	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	21:04:38.3	3.6	169.1					3.7

		e Sg	E	21:05:36.6						
	ARSA	e Pn	Z	21:04:47.0	4.3	180.5				3.1
	KBA	e Pn	Z	21:04:48.9	4.4	159.1				
	MOA	e Pn	Z	21:04:57.2	4.9	169.7				
	GEC2	e Pn	Z	21:05:10.3	6.0	167.5				
		e Sn	N	21:06:16.3						
	MOX	e Pn	Z	21:05:38.5	8.1	159.5				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	22:20:51.6	45.872N	12.006E	10.0G			3.4	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pg	Z	22:21:17.0	1.4	169.5					3.3
	e Sg	E	22:21:37.1							
KBA	e Pn	Z	22:21:19.1	1.5	217.9					2.8
	e Sg	E	22:21:40.5							
OBKA	e Pn	Z	22:21:23.4	1.9	251.0					2.8
DAVA	e Pn	Z	22:21:26.9	2.0	133.3					3.3
	e Sg	N	22:21:54.8							
FUR	e Pn	Z	22:21:30.5	2.3	167.5					3.8
MOA	e Pn	Z	22:21:32.7	2.5	218.8					2.8
ARSA	e Pn	Z	22:21:35.4	2.8	241.6					
GEC2	e Pn	Z	22:21:41.0	3.2	201.8					
STU	e Sn	N	22:22:26.4	3.5	145.6					4.1
BFO	e Pn	Z	22:21:45.7	3.5	133.1					3.4
	e Sn	N	22:22:26.6							
GRA1	e Pn	Z	22:21:52.3	3.9	171.9					4.1
TANN	e Pn	Z	22:22:00.3	4.6	184.0					
MOX	e Pn	Z	22:22:02.7	4.8	176.7					3.8
	e Sn	N	22:22:56.8							
BRG	e Pn	Z	22:22:08.4	5.2	195.2					
WLF	e Pn	Z	22:22:14.1	5.5	131.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	22:45:42.2	45.940N	11.975E	10.0G			2.6	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pg	Z	22:46:06.5	1.3	169.9					2.4
	e Sg	N	22:46:25.8							
KBA	e Pg	Z	22:46:08.4	1.5	220.1					2.1
	e Sg	E	22:46:29.8							
DAVA	e Pn	Z	22:46:16.3	2.0	132.3					2.5
	e Sg	N	22:46:44.2							

GEC2	e Pn	Z	22:46:30.5	3.1	202.6		
GRA1	e Pg	Z	22:46:52.3	3.8	172.0		3.3
MOX	e Sn	N	22:47:45.9	4.7	177.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/04	22:48: 1.7	45.907N	12.049E	10.0G			2.8	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pg	Z	22:48:26.7	1.4	168.0					2.7
	e Sg	N	22:48:46.2							
KBA	e Pg	Z	22:48:28.6	1.5	217.8					2.3
	e Sg	N	22:48:49.9							
OBKA	e Pn	Z	22:48:33.4	1.8	251.7					
DAVA	e Pn	Z	22:48:37.1	2.0	132.0					2.8
MOA	e Pn	Z	22:48:42.9	2.5	218.8					2.4
	e Sg	E	22:49:19.7							
ARSA	e Pn	Z	22:48:45.0	2.7	241.9					
GEC2	e Pn	Z	22:48:50.4	3.1	201.5					
GRA1	e Pg	Z	22:49:12.1	3.8	171.3					3.4
	e Sg	N	22:50:03.1							
MOX	e Pn	Z	22:49:12.4	4.7	176.4					
	e Sn	N	22:50:06.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/05	08:50:20.8	26.763N	131.831E	38.8	4.8			SZGRF

Southeast of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:03:02.3	87.2	50.3	0.9	7	4.8		
	e pP	Z	09:03:13.6			0.9	7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/05								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc -	Z	12:06:17.1			0.7	36			
	e PKPab	Z	12:06:28.3							
	e pPKPbc	Z	12:08:24.7							
	e sPKPbc	Z	12:09:21.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/05	12:13: 2.8	21.757S	176.702W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	12:32:43.4	147.4	12.2					
RUE	e PKPbc	Z	12:32:45.5	148.2	18.7					
NRDL	e PKPbc	Z	12:32:47.1	148.8	12.3					
IBBN	e PKPbc	Z	12:32:48.1	149.3	8.1					
CLZ	e PKPbc	Z	12:32:49.0	149.4	13.0					
BRG	e PKPbc	Z	12:32:49.3	149.7	19.9					
BUG	e PKPbc	Z	12:32:50.5	150.2	7.4					
MOX	e PKPbc	Z	12:32:51.2	150.4	15.8					
WERD	e PKPbc	Z	12:32:51.1	150.5	17.2					
GUNZ	e PKPbc	Z	12:32:51.6	150.5	17.2					
GRA1	e PKPbc	Z	12:32:53.2	151.4	15.5					
GEC2	e PKPbc	Z	12:32:54.0	151.7	20.7					
WLF	e PKPbc	Z	12:32:55.8	152.0	5.7					
STU	e PKPbc	Z	12:32:56.3	152.6	12.0					
FUR	e PKPbc	Z	12:32:56.5	152.8	16.4					
BFO	e PKPbc	Z	12:32:57.0	153.1	10.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/05	12:41:29.2	52.387N	164.130W	33.0N	4.8			SZGRF

South of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:53:23.9	77.8	357.1	1.1	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/05	12:53:22.0	41.156N	140.613E	33.0N	4.6			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:05:22.4	78.9	36.4	1.1	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/05	19:45:30.1	41.550N	141.927E	33.0N	5.1			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	19:57:13.4	75.8	37.4	1.1	26	5.3		
BSEG	e P	Z	19:57:14.3	75.9	35.2	1.5	44	5.4		

BRG	e	P	Z	19:57:20.0	77.1	37.2	0.9	5	4.6
NRDL	e	P	Z	19:57:20.2	77.2	34.9	2.7	143	5.6
CLZ	e	P	Z	19:57:23.3	77.6	35.0	1.1	25	5.3
IBBN	e	P	Z	19:57:26.1	78.1	33.3	1.2	24	5.2
MOX	e	P	Z	19:57:26.4	78.1	35.7	1.4	25	5.1
GEC2	e	P	Z	19:57:30.0	78.8	36.8	0.9	4	4.5
BUG	e	P	Z	19:57:31.1	79.0	32.8	1.1	18	5.0
GRA1	e	P	Z	19:57:31.3	79.0	35.3	1.3	44	5.3
GRFO	e	P	Z	19:57:31.6	79.0	35.3			
FUR	e	P	Z	19:57:38.3	80.3	35.2	1.0	20	5.1
STU	e	P	Z	19:57:39.4	80.6	33.9	0.9	21	5.2
BFO	e	P	Z	19:57:42.6	81.2	33.3	1.5	24	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/06	14:15:11.4	43.360N	146.090E	33.0N	6.7	7.1		SZGRF

Kuril Islands, Russia

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	P	Z	14:26:55.4	75.6	31.6	1.2	1167	6.9		
RUE	e	P	Z	14:26:55.9	75.7	33.7	1.4	1953	7.0		
NRDL	e	P	Z	14:27:02.8	76.9	31.2	1.5	930	6.7		
CLL	i	P	+ Z	14:27:03.0	77.0	33.0	1.2	1122	6.9		
	e	sP	Z	14:27:18.6							
	e	PP	Z	14:29:57.5							
	e	pPP	Z	14:30:08.5							
	e	PPP	Z	14:31:43.0							
	e	S	T	14:36:48.3							
	e	sS	T	14:37:07.4							
	e	PS	T	14:37:36.5							
	e	SS	Z	14:42:05.7							
	e	SSS	R	14:45:55.4							
	e	LQ	T	14:49:11.6							
	e	LR	Z	14:52:34.7							
	e	PKPPKPdf	Z	14:54:11.9							
	e	L	Z	15:03:42.1			22.0	107063		7.1	
BRG	e	P	Z	14:27:03.2	77.0	33.6	1.4	701	6.6		
CLZ	e	P	Z	14:27:05.6	77.4	31.3	1.2	1203	6.9		
IBBN	e	P	Z	14:27:07.4	77.8	29.6	1.2	1276	6.9		
WERD	e	P	Z	14:27:08.4	77.9	32.5	1.5	735	6.6		
GUNZ	e	P	Z	14:27:08.9	78.0	32.5	1.5	783	6.6		
MOX	e	P	Z	14:27:08.7	78.0	32.0	1.5	894	6.7		
UBBA	e	P	Z	14:27:10.6	78.4	31.0	1.7	801	6.5		
BUG	e	P	Z	14:27:12.3	78.7	29.2	1.4	1038	6.7		
GEC2	e	P	Z	14:27:13.0	78.8	33.2	1.4	559	6.4		
GRA1	e	P	Z	14:27:14.0	78.9	31.7	1.3	1442	6.9		
	e	PP	Z	14:30:16.6							
	e	S	N	14:37:12.8							

		e P'P'df	Z	14:53:55.3						
		e L	Z	15:05:11.0			22.0	94513		7.1
	FUR	e P	Z	14:27:20.7	80.2	31.6	1.3	1319	6.8	
	STU	e P	Z	14:27:21.4	80.4	30.3	1.2	745	6.6	
	WLF	e P	Z	14:27:23.3	80.6	28.3	2.1	1385	6.6	
	BFO	e P	Z	14:27:25.3	81.1	29.7	1.5	805	6.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/06	16:26:29.1	19.390S	176.870W	456.5				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z	16:45:12.0	145.0	11.9					
RUE	e PKP	Z	16:45:15.0	145.9	18.1					
NRDL	e PKP	Z	16:45:16.2	146.5	12.0					
IBBN	e PKPbc	Z	16:45:18.9	146.9	8.0					
CLZ	e PKPdf	Z	16:45:17.4	147.1	12.6					
	e PKPbc	Z	16:45:19.3							
CLL	i PKPdf	Z	16:45:17.0	147.1	17.3	1.2	32			
	i PKPbc	+ Z	16:45:19.1			0.9	208			
	e PKPab	Z	16:45:21.6							
	e pPKPbc	Z	16:47:04.2							
	e SKPbc	Z	16:48:16.1							
BRG	e PKPdf	Z	16:45:17.5	147.4	19.2					
	e PKPbc	Z	16:45:20.0							
	e		16:48:17.3							
BUG	e PKPdf	Z	16:45:18.3	147.8	7.3					
MOX	e PKPdf	Z	16:45:18.6	148.0	15.2					
	e PKPbc	Z	16:45:21.7							
	e pPKPbc	Z	16:47:08.5							
WERD	e PKPdf	Z	16:45:18.8	148.1	16.5					
	e PKPbc	Z	16:45:22.0							
	e pPKPbc	Z	16:47:08.9							
UBBA	e PKPdf	Z	16:45:18.7	148.1	12.3					
GUNZ	e PKPdf	Z	16:45:19.1	148.2	16.6					
	e PKPbc	Z	16:45:22.4							
	e pPKPbc	Z	16:47:09.5							
GRA1	e PKPdf	Z	16:45:20.6	149.0	14.9					
	e PKPbc	Z	16:45:24.6							
	e pPKPbc	Z	16:47:13.2							
GEC2	e PKPdf	Z	16:45:20.9	149.3	19.8					
	e PKPbc	Z	16:45:25.2							
	e pPKPbc	Z	16:47:14.7							
WLF	e PKPdf	Z	16:45:22.2	149.6	5.6					
	e PKPbc	Z	16:45:26.8							
	e PKPab	Z	16:45:32.5							
STU	e PKPdf	Z	16:45:22.6	150.2	11.6					

	e PKPbc	Z	16:45:27.7			
	e pPKPbc	Z	16:47:17.8			
FUR	e PKPdf	Z	16:45:22.7	150.5	15.7	
	e PKPbc	Z	16:45:28.1			
	e pPKPbc	Z	16:47:17.8			
BFO	e PKPdf	Z	16:45:22.8	150.8	10.1	
	e PKPbc	Z	16:45:28.7			
	e PKPab	Z	16:45:36.6			
	e pPKPbc	Z	16:47:18.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/06	18:46:56.6	18.421S	177.539W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	19:06:26.2	144.0	12.7					
NRDL	e PKPbc	Z	19:06:31.1	145.4	12.8					
CLZ	e PKPbc	Z	19:06:32.8	146.0	13.5					
CLL	e PKPbc	Z	19:06:32.5	146.1	18.1					
BRG	e PKPbc	Z	19:06:33.4	146.3	19.9					
WERD	e PKPbc	Z	19:06:35.5	147.0	17.3					
GRA1	e PKPbc	Z	19:06:38.1	147.9	15.8					
GEC2	e PKPbc	Z	19:06:38.5	148.2	20.6					
WLF	e PKPbc	Z	19:06:40.5	148.6	6.7					
BFO	e PKPbc	Z	19:06:42.2	149.7	11.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/07	02:19:37.7	46.060N	12.417E	10.0G			3.2	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	02:20:15.6	2.2	159.3					3.6
	e Sg	N	02:20:48.7							
GEC2	e Pn	Z	02:20:24.0	2.9	197.8					2.8
	e Sn	N	02:21:00.2							
BFO	e Pn	Z	02:20:33.0	3.6	127.7					3.1
	e Sn	N	02:21:15.8							
GRA1	e Pn	Z	02:20:34.6	3.7	167.1					3.3
	e Sn	N	02:21:17.3							
TANN	e Pn	Z	02:20:44.2	4.4	180.4					
MOX	e Pn	Z	02:20:46.4	4.6	173.1					3.4
	e Sn	N	02:21:39.8							
BRG	e Sn	E	02:21:46.1	4.9	192.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/07	03:16:55.9	51.450N	176.760W	33.0N	5.0			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	03:28:33.5	74.4	4.6	0.8	21	5.2		
NRDL	e P	Z	03:28:41.6	75.9	4.4	1.0	12	5.0		
IBBN	e P	Z	03:28:43.0	76.2	2.9	0.9	31	5.5		
CLZ	e P	Z	03:28:45.6	76.5	4.6	0.9	27	5.4		
CLL	e P	Z	03:28:47.0	76.9	6.2	0.8	12	5.1		
BRG	e P	Z	03:28:49.6	77.3	6.8	1.0	13	5.0		
MOX	e P	Z	03:28:51.6	77.7	5.3	1.1	14	5.0		
WERD	e P	Z	03:28:52.6	77.8	5.8	1.3	14	4.9		
GRA1	e P	Z	03:28:57.3	78.6	5.1	0.9	24	5.2		
GEC2	e P	Z	03:29:00.4	79.3	6.6	1.0	7	4.6		
STU	e P	Z	03:29:02.7	79.7	3.8	0.8	9	4.8		
BFO	e P	Z	03:29:04.9	80.1	3.2	1.2	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/08	06:03:53.0	30.714S	71.149W	25.0G		5.1		NEIC-M

Near coast of central Chile

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	06:22:40.6	108.4	243.9					
	e L	Z	07:04:39.6			22.0	564		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/08	08:50:27.1	7.904S	30.604E	10.0N	4.8			SZGRF

Lake Tanganyika region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:00:34.2	60.0	157.7	1.4	13	4.8		
	e		09:00:45.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/08	10:04:10.9	27.500N	56.500E	36.9	4.8	4.2		SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:11:35.2	39.1	107.2	1.2	34	4.8		
	e pP	Z	10:11:45.8			1.2	34			
BRG	e P	Z	10:11:39.4	39.6	109.8	0.8	6	4.3		

CLL	e P	Z	10:11:45.8	40.3	109.3	1.2	23	4.7	
	e pP	Z	10:11:55.6						
GRA1	e P	Z	10:11:51.0	40.9	105.7	1.1	50	5.1	
	e pP	Z	10:12:00.8						
	e L	Z	10:30:56.6			21.3	329		4.2
CLZ	e P	Z	10:11:59.5	42.0	107.2	1.1	24	4.9	
	e pP	Z	10:12:10.4						
NRDL	e P	Z	10:12:02.6	42.4	107.6	1.2	18	4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/08	23:52:10.0	44.246N	144.768E	37.5	4.6			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:04:03.9	77.7	32.1	1.1	6	4.6		
	e pP	Z	00:04:14.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/09	01:09:13.3	49.224N	19.319E	10.0G			3.4	SZGRF

Poland

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	01:10:10.7	3.7	82.0					3.2
	e Sg	N	01:11:11.2							
BRG	e Pg	Z	01:10:22.4	3.8	113.5					3.2
	e Sg	E	01:11:14.9							
CLL	e Sg	N	01:11:37.8	4.5	114.8					3.5
TANN	e Pn	Z	01:10:23.4	4.6	102.4					3.4
	e Sg	N	01:11:38.6							
WERD	e Pn	Z	01:10:25.7	4.7	102.4					3.3
	e Sg	N	01:11:42.5							
MOX	e Sg	N	01:11:58.0	5.2	103.0					3.5
GRA1	e Sg	E	01:12:02.4	5.3	92.0					3.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/09	01:53:27.1	27.518N	139.006E	33.0N	5.2			SZGRF

Bonin Islands, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:06:23.4	90.0	44.5	0.9	15	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/09	02:44:25.0	42.794N	13.893E	10.0G			4.1	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	02:45:22.7	3.7	187.4					4.2
	e Sn	E	02:46:07.1							
KBA	e Pn	Z	02:45:30.4	4.3	174.6					3.9
	e Sn	E	02:46:19.7							
ARSA	e Pn	Z	02:45:34.2	4.6	195.1					
	e Sn	E	02:46:25.5							
WTTA	e Pn	Z	02:45:37.1	4.7	159.6					4.2
	e Sn	E	02:46:31.5							
MOA	e Pn	Z	02:45:41.2	5.1	183.1					3.9
	e Sn	N	02:46:39.1							
DAVA	e Pn	Z	02:45:44.9	5.3	146.3					4.1
	e Sn	E	02:46:44.6							
FUR	e Pn	Z	02:45:49.6	5.7	160.2					4.5
	e Sn	N	02:46:52.7							
GEC2	e Pn	Z	02:45:53.6	6.1	178.7					
	e Sn	N	02:47:00.3							
BFO	e Pn	Z	02:46:03.0	6.8	142.8					
	e Sn	N	02:47:16.4							
STU	e Sn	N	02:47:19.0	6.8	149.5					
GRA1	e Pn	Z	02:46:07.9	7.1	164.0					
	e Sn	E	02:47:24.9							
TANN	e Pn	Z	02:46:15.6	7.7	172.1					
MOX	e Pn	Z	02:46:19.5	8.0	167.9					
	e Sn	E	02:47:45.2							
BRG	e Pn	Z	02:46:21.0	8.1	180.3					
	e Sn	N	02:47:49.0							
CLL	e Pn	Z	02:46:26.6	8.5	175.6					
	e Sn	N	02:47:59.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/09	08:49: 5.7	24.880N	92.150E	58.5	5.9	4.7		SZGRF

India-Bangladesh border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	08:59:30.5	63.6	82.9	1.0	121	6.1		
	e pP	Z	08:59:47.2							
BRG	e P	Z	08:59:31.4	63.7	82.2	1.0	72	5.9		
CLL	e P	Z	08:59:34.5	64.2	81.7	1.2	58	5.7		
WERD	e P	Z	08:59:38.5	64.8	80.8	0.9	62	5.8		
MOX	e P	Z	08:59:41.1	65.2	80.4	1.1	65	5.8		
	e pP	Z	08:59:57.7							
BSEG	e P	Z	08:59:43.0	65.4	80.9	1.0	115	6.1		

GRA1	e P	Z	08:59:44.5	65.6	79.7	1.4	200	6.2	
	e PP	Z	09:02:07.6						
	e L	Z	09:31:06.9			21.8	584		4.7
CLZ	e P	Z	08:59:44.9	65.7	80.0	0.9	120	6.1	
	e pP	Z	09:00:01.6						
NRDL	e P	Z	08:59:45.5	65.8	80.1	1.2	171	6.1	
FUR	e P	Z	08:59:45.5	65.8	79.0	1.3	115	5.9	
UBBA	e P	Z	08:59:47.3	66.1	79.3	1.6	81	5.7	
STU	e P	Z	08:59:53.3	67.1	77.9	0.9	97	6.0	
IBBN	e P	Z	08:59:54.3	67.2	78.3	1.3	119	6.0	
BUG	e P	Z	08:59:57.3	67.7	77.6	1.0	70	5.8	
BFO	e P	Z	08:59:57.0	67.7	77.1	1.6	52	5.5	
WLF	e P	Z	09:00:04.8	68.8	76.1	1.1	200	6.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/09	18:35:16.8	41.663N	20.779E	10.0G				SZGRF

Albania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	18:36:52.5	6.6	135.1					
	e Sn	E	18:38:04.9							
ARSA	e Pn	Z	18:36:53.6	6.7	144.2					
KBA	e Pn	Z	18:37:06.9	7.6	132.9					
	e Sn	E	18:38:29.4							
MOA	e Pn	Z	18:37:07.9	7.7	140.9					
	e Sn	E	18:38:32.7							
WTTA	e Pn	Z	18:37:20.5	8.6	127.4					
	e Sn	N	18:38:53.9							
FUR	e Pn	Z	18:37:30.2	9.3	130.6					
	e Sn	N	18:39:11.9							
DAVA	e Pn	Z	18:37:34.4	9.6	122.0					
	e Sn	E	18:39:17.7							
GRA1	e Pn	Z	18:37:44.3	10.4	136.7					
WERD	e Pn	Z	18:37:46.8	10.6	143.1					
	e Sn	E	18:39:40.2							
MOX	e Pn	Z	18:37:54.0	11.0	141.3					
	e Sn	E	18:39:49.6							
BFO	e Pn	Z	18:37:52.6	11.0	122.6					
	e Sn	N	18:39:49.2							
WLF	e Pn	Z	18:38:19.2	12.9	122.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/10	00:53:49.0	19.100S	169.100E	100.0N				GSRC-M

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPpre	Z	01:13:07.3	142.7	39.3					
	e PKPdf	Z	01:13:11.5							
	e SKPbc	Z	01:16:35.4			0.9	23			
BRG	e PKP	Z	01:13:07.6	142.7	40.9					
	e SKP	Z	01:16:35.7							
CLZ	e PKP	Z	01:13:10.4	143.3	35.0					
	e SKP	Z	01:16:37.7							
WERD	e PKP	Z	01:13:10.8	143.6	38.9					
	e SKP	Z	01:16:38.0							
IBBN	e PKP	Z	01:13:11.4	143.7	30.7					
	e SKP	Z	01:16:39.2							
MOX	e PKP	Z	01:13:10.6	143.8	37.7					
	e SKP	Z	01:16:38.5							
UBBA	e PKP	Z	01:13:12.6	144.2	35.2					
BUG	e PKP	Z	01:13:13.1	144.6	30.6					
	e SKP	Z	01:16:41.1							
GRA1	e PKP	Z	01:13:14.6	144.7	38.0					
	e SKP	Z	01:16:41.5							
FUR	e PKP	Z	01:13:18.3	145.8	39.4					
STU	e PKP	Z	01:13:17.6	146.2	35.7					
	e SKP	Z	01:16:44.3							
WLF	e PKP	Z	01:13:20.6	146.5	30.2					
BFO	e PKP	Z	01:13:20.7	146.9	34.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/10	02:33:52.8	20.390S	177.370W	520.2				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	02:52:34.0	145.9	12.9					
	e pPKPbc	Z	02:54:36.5							
RUE	e PKPbc	Z	02:52:36.3	146.8	19.3					
NRDL	e PKPbc	Z	02:52:38.0	147.4	13.1					
IBBN	e PKPbc	Z	02:52:39.2	147.8	9.1					
	e PKPab	Z	02:52:43.3							
CLZ	e PKPbc	Z	02:52:39.9	148.0	13.8					
CLL	e PKPdf	Z	02:52:35.9	148.0	18.6					
	e PKPbc	Z	02:52:39.7							
	e PKPab	Z	02:52:43.9							
	e pPKPbc	Z	02:54:38.1							
BRG	e PKPdf	Z	02:52:36.4	148.2	20.4					
	e PKPbc	Z	02:52:40.4							
	e PKPab	Z	02:52:45.0							
BUG	e PKPbc	Z	02:52:41.3	148.7	8.4					
MOX	e PKPbc	Z	02:52:42.0	148.9	16.5					
WERD	e PKPbc	Z	02:52:42.3	149.0	17.8					

	e PKPab	Z	02:52:48.0			
UBBA	e pPKPbc	Z	02:54:44.7	149.0	13.5	
GRA1	e PKPdf	Z	02:52:38.5	149.9	16.2	
	e PKPbc	Z	02:52:44.5			
	e PKPab	Z	02:52:51.6			
GRFO	e PKPdf	Z	02:52:38.7	149.9	16.2	
WLF	e PKPbc	Z	02:52:46.5	150.6	6.7	
	e PKPab	Z	02:52:55.2			
STU	e PKPdf	Z	02:52:41.0	151.1	12.8	
	e PKPbc	Z	02:52:47.2			
	e pPKPbc	Z	02:54:50.8			
FUR	e PKPbc	Z	02:52:47.8	151.4	17.1	
	e PKPab	Z	02:52:58.3			
BFO	e PKPdf	Z	02:52:41.7	151.7	11.3	
	e PKPbc	Z	02:52:48.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/10	03:44: 7.3	36.090N	92.550E	24.1	5.2	4.7		SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:53:46.2	56.1	72.6	1.7	38	5.1		
CLL	e P	Z	03:53:48.8	56.5	72.3	1.5	37	5.2		
WERD	e P	Z	03:53:53.6	57.2	71.3	1.6	28	5.0		
	e pP	Z	03:54:00.1							
BSEG	e P	Z	03:53:54.8	57.3	72.1	1.4	33	5.2		
MOX	e P	Z	03:53:56.6	57.6	71.0	1.5	24	5.0		
NRDL	e P	Z	03:53:58.9	57.9	71.1	1.6	74	5.5		
CLZ	e P	Z	03:53:59.1	57.9	70.9	1.4	37	5.2		
GRA1	e P	Z	03:54:01.0	58.1	70.2	1.7	92	5.5		
	e pP	Z	03:54:07.6							
	e L	Z	04:20:48.0			19.7	524		4.7	
UBBA	e P	Z	03:54:03.0	58.5	70.0					
FUR	e P	Z	03:54:04.6	58.6	69.3	1.4	69	5.5		
STU	e P	Z	03:54:11.4	59.7	68.4	0.9	18	5.1		
	e pP	Z	03:54:18.0							
BUG	e P	Z	03:54:12.4	59.9	68.6	0.7	13	5.1		
	e pP	Z	03:54:19.1							
BFO	e P	Z	03:54:15.7	60.4	67.6	1.5	37	5.0		
	e pP	Z	03:54:21.7							
WLF	e P	Z	03:54:21.8	61.2	67.0	1.4	50	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/10	10:32:36.3	16.484N	95.210W	33.0N	5.3			SZGRF

Oaxaca, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:45:21.8	87.7	293.0	1.4	24	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/11	01:54:57.9	2.790S	146.710E	33.0				SZGRF

Admiralty Islands, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z	02:13:39.8	116.9	55.1					
BSEG	e PKPdf	Z	02:13:41.4	117.7	51.1					
	e SKPdf	Z	02:16:32.4							
BRG	e PKPdf	Z	02:13:41.5	117.8	56.0					
CLL	e PKPdf	Z	02:13:41.7	118.0	54.9					
	e SKPdf	Z	02:16:33.2							
NRDL	e PKPdf	Z	02:13:43.5	118.7	51.5					
CLZ	e PKPdf	Z	02:13:43.9	119.0	52.0					
	e SKPdf	Z	02:16:35.2							
GEC2	e PKPdf	Z	02:13:44.0	119.0	56.6					
	e SKPdf	Z	02:16:35.5							
MOX	e PKPdf	Z	02:13:43.8	119.1	53.8					
WET	e PKPdf	Z	02:13:44.7	119.3	55.7					
GRA1	e PKPdf	Z	02:13:45.5	119.9	53.8					
	e SKPdf	Z	02:16:37.0							
IBBN	e PKPdf	Z	02:13:45.6	119.9	49.2					
FUR	e PKPdf	Z	02:13:47.2	120.7	54.6					
BUG	e PKPdf	Z	02:13:47.1	120.7	49.1					
STU	e PKPdf	Z	02:13:48.8	121.5	52.3					
BFO	e PKPdf	Z	02:13:49.8	122.2	51.6					
WLF	e PKPdf	Z	02:13:51.0	122.4	48.8					
	e SKPdf	Z	02:16:42.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/11	11:40:43.4	36.595N	21.330E	33.0N				SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pn	Z	11:44:18.9	15.0	147.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/11	19:45:46.5	19.038N	64.530W	55.0G	5.3			SZGRF

Virgin Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:56:12.1	63.2	268.3					
BUG	e P	Z	19:56:16.3	64.0	268.2					
IBBN	e P	Z	19:56:18.9	64.3	268.2					
BFO	e P	Z	19:56:21.1	64.6	270.6					
NRDL	e P	Z	19:56:28.3	65.7	270.0					
BSEG	e P	Z	19:56:28.3	65.8	269.5					
CLZ	e P	Z	19:56:29.2	65.9	270.5	0.8	25	5.5		
GRA1	e P	Z	19:56:33.1	66.5	272.1	1.6	33	5.3		
	e pP	Z	19:56:48.5							
FUR	e P	Z	19:56:33.6	66.6	272.8	1.8	45	5.4		
CLL	e P	Z	19:56:39.9	67.5	272.8	0.8	22	5.4		
WET	e P	Z	19:56:39.9	67.6	273.6	1.0	12	5.1		
RUE	e P	Z	19:56:42.5	68.0	272.9					
GEC2	e P	Z	19:56:43.4	68.1	274.3	1.0	8	4.9		
BRG	e P	Z	19:56:43.7	68.1	273.7	0.8	23	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/11	20:01:33.2	35.320N	24.943E	33.0N	4.5			SZGRF

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:05:36.2	17.5	140.0	1.2	52	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	21:07:14.5							
CLL	e P	Z	21:06:41.0							
CLZ	e P	Z	21:06:57.0							
GRA1	e P	Z	21:06:34.2							
RUE	e P	Z	21:06:50.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:57:29.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/12	05:28:40.8	31.426N	131.797E	33.0N	5.5			SZGRF

Kyushu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:41:04.6	83.3	47.7	2.0	58	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/12	19:41:38.9	41.877N	141.978E	33.0N	4.8	4.5		SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:53:38.8	78.8	35.1	0.9	10	4.8		
	e L	Z	20:40:40.8			22.0	243		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/13	04:08:36.4	2.926S	30.189E	21.6				SZGRF

Lake Tanganyika region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:18:07.1	55.1	156.7					
	e pP	Z	04:18:13.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/13	11:08:55.4	48.190N	162.380E	33.0N	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	11:20:48.9	77.1	20.4	0.6	6	4.8		
BRG	e P	Z	11:20:51.5	77.3	21.0	1.2	7	4.7		
MOX	e P	Z	11:20:55.0	78.0	19.4	1.0	6	4.6		
WERD	e P	Z	11:20:55.2	78.1	19.9	1.3	8	4.7		
GUNZ	e P	Z	11:20:54.8	78.1	19.9	1.3	11	4.8		
GRA1	e P	Z	11:21:00.4	79.0	19.1	0.8	5	4.6		
WET	e P	Z	11:21:01.0	79.2	20.2	1.2	9	4.6		
GEC2	e P	Z	11:21:01.1	79.3	20.7	1.4	8	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/13	12:00:12.7	8.064S	125.124E	10G	5.8	4.7		NEIC-M

East Timor region

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

GRA1	e PP	Z	12:19:22.5	111.5	76.7	0.7	3	
	e L	Z	13:11:30.4			20.9	187	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/13	14:16:08.4	36.196N	9.953W	10G	4.9	4.6		NEIC-M

West of Gibraltar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	14:20:20.4			1.1	40	4.4		
BRG	e P	Z	14:21:10.7			1.3	24	4.5		
BSEG	e P	Z	14:21:09.3							
CLZ	e P	Z	14:20:58.3			1.0	31	4.6		
GEC2	e P	Z	14:20:56.8			0.8	22	4.5		
GRA1	e P	Z	14:20:47.4							
	e L	Z	14:28:27.4			20.0	492		3.9	
MOX	e P	Z	14:20:58.5			1.3	21	4.3		
NOTT	e P	Z	14:20:52.7			1.0	12	4.2		
NRDL	e P	Z	14:21:02.1			1.1	28	4.5		
WERD	e P	Z	14:20:57.9			1.1	10	4.1		
WET	e P	Z	14:20:53.6			1.0	26	4.5		
WLF	e P	Z	14:20:16.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/13	15:23:37.4	12.670N	88.320W	33.0N	5.7	5.7		SZGRF

Off coast of central America

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	15:36:01.2	83.2	281.6	1.3	78	5.8		
BSEG	e P	Z	15:36:09.2	84.8	284.4	1.2	80	5.8		
BFO	e P	Z	15:36:09.3	84.9	283.4	1.4	33	5.4		
NRDL	e P	Z	15:36:11.0	85.0	284.4	1.4	75	5.7		
CLZ	e P	Z	15:36:12.2	85.3	284.6	1.3	63	5.7		
UBBA	e P	Z	15:36:12.6	85.4	284.4	1.3	28	5.3		
MOX	e P	Z	15:36:17.3	86.4	285.7	1.5	78	5.6		
GRA1	e P	Z	15:36:18.0	86.4	285.4	1.2	60	5.6		
	e PP	Z	15:39:43.6							
	e S	E	15:46:46.2							
	e SS	E	15:52:50.4							
	e L	Z	16:11:09.4			21.2	3624		5.7	
WERD	e P	Z	15:36:19.7	86.9	286.2	1.4	79	5.7		
	e PP	Z	15:39:42.9							
GUNZ	e P	Z	15:36:20.0	86.9	286.2	1.4	85	5.7		
	e PP	Z	15:39:43.2							
CLL	i P	+ Z	15:36:20.0	87.1	286.7	1.2	72	5.7		
	e pP	Z	15:36:38.7							

	e PP	Z	15:39:58.0						
	e S	E	15:46:50.3						
	e PS	Z	15:48:15.3						
	e SS	E	15:52:46.1						
	e SSS	E	15:56:39.8						
	e LR	Z	16:04:35.0						
	e L	Z	16:12:27.5			22.0	3972		5.8
RUE	e P	Z	15:36:20.9	87.2	287.2	1.0	61	5.7	
WET	e P	Z	15:36:23.6	87.6	286.7	1.4	112	6.0	
BRG	e P	Z	15:36:23.9	87.7	287.4	1.4	70	5.8	
GEC2	e P	Z	15:36:26.3	88.2	287.3	1.4	60	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/13	17:27: 0.2	30.808N	131.146E	33.0N	5.0	5.3		SZGRF

Kyushu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:39:25.0	83.5	48.5	1.2	11	5.0		
	e L	Z	18:19:27.4			18.0	1278		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/14	23:20:12.2	18.240N	81.660W	33.0N	6.4	6.8		SZGRF

North of Honduras

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	23:31:50.0	74.8	280.4	1.6	450	6.4		
BUG	e P	Z	23:31:52.2	75.2	280.8	2.0	986	6.5		
	e S	R	23:41:28.3							
IBBN	e P	Z	23:31:52.9	75.3	280.9	2.1	1388	6.6		
BFO	e P	Z	23:31:59.3	76.5	282.4	1.3	180	5.9		
BSEG	e P	Z	23:31:59.7	76.5	282.5	1.9	648	6.3		
NRDL	e P	Z	23:32:01.1	76.7	282.7	1.9	936	6.5		
STU	e P	Z	23:32:02.4	76.9	282.9	1.4	236	6.0		
CLZ	e P	Z	23:32:03.4	77.0	283.0	1.8	804	6.5		
	e S	R	23:41:51.1							
GRA1	e P	Z	23:32:08.6	78.0	284.1	1.9	569	6.4		
MOX	e P	Z	23:32:08.4	78.0	284.2	1.8	484	6.3		
FUR	e P	Z	23:32:10.7	78.4	284.5	2.2	828	6.5		
WERD	e P	Z	23:32:11.1	78.5	284.8	2.0	581	6.4		
GUNZ	e P	Z	23:32:11.5	78.5	284.8	1.8	506	6.3		
CLL	e P	Z	23:32:12.6	78.7	285.1	2.0	636	6.4		
	i PP	Z	23:35:16.9							
	e S	E	23:42:07.2							
	e SS	E	23:47:17.0							
	e SSS	E	23:50:40.9							

	e LR	Z	23:56:37.7						
	e PKPPKPdf	Z	23:59:17.9						
	e L	Z	00:05:32.6			20.0	26348		
WET	e P	Z	23:32:15.4	79.2	285.4	2.1	936	6.5	
	e S	R	23:42:13.9						
BRG	e P	Z	23:32:16.5	79.4	285.9	1.7	556	6.4	
GRA1	e L	Z	00:01:50.7	78.0	284.1	21.8	51194		6.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/14	05:56:18.8	45.460N	141.930E	33.0N	5.9	5.8		SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:07:44.3	72.4	33.4	1.7	126	5.8		
CLL	i P	Z	06:07:51.0	73.7	34.6	1.2	86	5.7		
	e PP	Z	06:10:39.2							
	e PPP	Z	06:12:22.7							
	e S	E	06:17:28.3							
	e ScS	N	06:18:02.5							
	e (SS)	N	06:22:32.8							
	e (SSS)	N	06:25:53.2							
	e LR	Z	06:32:24.7							
	e L	Z	06:41:36.7			22.0	4722		5.7	
NRDL	e P	Z	06:07:51.7	73.7	33.0	1.7	123	5.8		
BRG	e P	Z	06:07:51.2	73.7	35.2	2.1	224	5.9		
CLZ	e P	Z	06:07:54.8	74.2	33.1	1.6	219	6.0		
WERD	e P	Z	06:07:57.7	74.6	34.1	1.9	178	5.8		
GUNZ	e P	Z	06:07:57.4	74.7	34.1	2.0	225	5.8		
MOX	e P	Z	06:07:57.5	74.7	33.7	1.9	200	5.8		
UBBA	e P	Z	06:07:59.8	75.1	32.7	1.8	163	5.7		
GEC2	e P	Z	06:08:01.6	75.5	34.7	1.6	111	5.6		
BUG	e P	Z	06:08:01.8	75.5	31.0	2.0	359	6.1		
WET	e P	Z	06:08:02.5	75.5	34.2	1.8	273	6.0		
GRA1	e P	Z	06:08:03.3	75.7	33.3	1.6	299	6.1		
	e S	E	06:17:44.8							
	e L	Z	06:41:55.9			21.1	5574		5.8	
FUR	e P	Z	06:08:10.2	76.9	33.1	1.8	516	6.4		
STU	e P	Z	06:08:11.3	77.2	31.9	0.5	57	5.9		
WLF	e P	Z	06:08:12.8	77.4	30.1	1.9	293	6.1		
BFO	e P	Z	06:08:15.0	77.8	31.3	1.9	336	6.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/15	01:10:52.4	42.899N	13.821E	10.0G			3.3	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	01:11:48.4	3.6	188.4					3.5
KBA	e Pn	Z	01:11:56.1	4.2	175.2					3.2
	e Sn	E	01:12:44.7							
ARSA	e Pn	Z	01:11:59.9	4.5	196.1					
MOA	e Pn	Z	01:12:07.1	5.0	183.8					
	e Sn	E	01:13:03.7							
DAVA	e Pn	Z	01:12:11.4	5.2	146.2					
GEC2	e Pn	Z	01:12:19.2	5.9	179.2					
	e Sn	N	01:13:26.0							
WET	e Pn	Z	01:12:23.3	6.3	173.7					
	e Sn	N	01:13:33.7							
BFO	e Pn	Z	01:12:29.4	6.6	142.7					
	e Sn	N	01:13:42.3							
GRA1	e Sn	N	01:13:51.1	7.0	164.2					
TANN	e Sn	E	01:14:05.2	7.6	172.4					
MOX	e Sn	Z	01:14:10.4	7.9	168.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/15	06:47:28.0	79.240N	0.050W	31.1				SZGRF

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:52:55.8	25.5	355.5	1.5	58			
NRDL	e P	Z	06:53:08.5	27.0	355.8	1.2	35			
CLZ	e P	Z	06:53:15.0	27.6	355.8	1.2	24			
BUG	e P	Z	06:53:17.2	27.9	357.1					
CLL	i P	Z	06:53:20.1	28.3	354.9	1.2	35	5.1		
	e PcP	Z	06:56:16.9							
UBBA	e P	Z	06:53:23.4	28.6	356.1	1.8	53			
BRG	e P	Z	06:53:24.6	28.8	354.6	1.2	37			
MOX	e P	Z	06:53:25.6	28.9	355.5	1.1	44			
WERD	e P	Z	06:53:27.6	29.1	355.3	1.2	48			
GUNZ	e P	Z	06:53:28.3	29.2	355.3	1.1	51			
GRA1	e P	Z	06:53:34.1	29.8	355.8	1.1	32			
	e pP	Z	06:53:42.1							
WET	e P	Z	06:53:40.0	30.4	355.3	1.1	16			
STU	e P	Z	06:53:41.4	30.6	356.6	0.9	43			
GEC2	e P	Z	06:53:43.0	30.8	355.0	1.1	37			
BFO	e P	Z	06:53:44.8	31.1	357.0	1.4	40			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/15	19:35:25.2	24.920S	16.150W	24.5	5.0			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	19:47:11.6	76.5	202.7	1.2	21	5.1		
STU	e P	Z	19:47:15.1	77.1	203.5	0.9	17	5.2		
GEC2	e P	Z	19:47:22.5	78.4	207.4	1.5	13	4.8		
WET	e P	Z	19:47:22.4	78.5	206.7	1.4	19	5.0		
GRA1	e P	Z	19:47:23.0	78.5	205.2	1.5	43	5.4		
	e pP	Z	19:47:30.0							
GUNZ	e P	Z	19:47:28.4	79.4	206.1	1.4	18	4.9		
MOX	e P	Z	19:47:28.5	79.5	205.5	1.5	15	4.8		
WERD	e P	Z	19:47:28.3	79.5	206.1	1.2	7	4.5		
NRDL	e P	Z	19:47:34.8	80.7	204.0	1.4	46	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/15	20:26:23.5	42.689N	84.496E	33.0N	4.6			SZGRF

Northern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:35:08.6	49.2	68.5	1.1	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/16	00:10: 6.4	24.214N	121.746E	33.0N	5.1	5.0		SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:22:33.5	83.9	59.2	1.1	14	5.1		
	e L	Z	01:04:58.7			19.5	577		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/16	03:02:44.6	20.293S	177.563E	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	03:22:17.6	145.0	21.1					
NRDL	e PKPbc	Z	03:22:21.6	146.4	21.6					
CLL	e PKPbc	Z	03:22:22.5	146.7	27.1					
BRG	e PKPbc	Z	03:22:23.0	146.8	28.9					
CLZ	e PKPbc	Z	03:22:23.0	146.9	22.4					
MOX	e PKPbc	Z	03:22:24.8	147.7	25.2					
GEC2	e PKPbc	Z	03:22:27.3	148.7	30.1					
GRA1	e PKPbc	Z	03:22:28.1	148.7	25.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/16	04:29:21.4	20.470S	173.750W	46.7				QED

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	04:49:04.8	148.7	12.2	1.3	23			
	e pPKPbc	Z	04:49:18.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/16	04:48:23.1	21.700S	179.230W					QED

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc	Z	05:07:05.9	148.9	22.4	1.0	27			
	e PKPab	Z	05:07:12.4			0.9	9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/16	15:30:27.5	36.280N	71.231E	122.9	4.8			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:38:36.9	44.6	83.8	1.5	19	4.8		
	e pP	Z	15:39:05.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/16								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:14:56.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/17	01:42: 2.5	43.112N	14.937E	10.0G			3.7	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	01:42:55.0	3.4	175.2					4.2
KBA	e Pn	Z	01:43:05.9	4.1	163.6					
ARSA	e Pn	Z	01:43:04.7	4.2	185.9					3.3
	e Sn	N	01:43:52.4							
WTTA	e Pn	Z	01:43:15.3	4.8	149.6					
MOA	e Pn	Z	01:43:14.2	4.8	174.1					3.6

	e Sn	E	01:44:08.7		
DAVA	e Sn	N	01:44:24.5	5.5	137.7
GEC2	e Pn	Z	01:43:27.7	5.8	171.0
	e Sn	N	01:44:32.6		
WET	e Pn	Z	01:43:33.1	6.2	165.9
	e Sn	E	01:44:41.6		
BFO	e Pn	Z	01:43:42.9	7.0	136.1
GRA1	e Sn	N	01:45:02.0	7.1	157.4
TANN	e Pn	Z	01:43:51.6	7.5	166.0
	e Sn	N	01:45:13.2		
MOX	e Pn	Z	01:43:55.7	7.9	162.0
	e Sn	N	01:45:20.7		
CLL	e Pn	Z	01:44:02.0	8.3	170.2
	e Sn	E	01:45:32.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/17	07:13: 9.9	21.770S	178.480W	577.1				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:31:48.8	147.1	15.2					
	e PKPab	Z	07:31:52.4							
RUE	e PKPbc	Z	07:31:50.5	147.9	21.8					
	e PKPab	Z	07:31:55.0							
NRDL	e PKPbc	Z	07:31:52.0	148.6	15.4					
	e PKPab	Z	07:31:57.7							
IBBN	e PKPbc	Z	07:31:53.1	149.1	11.3					
	e PKPab	Z	07:32:00.2							
CLL	e PKPbc	Z	07:31:53.5	149.1	21.1					
	e PKPab	Z	07:32:00.1							
CLZ	e PKPbc	Z	07:31:53.9	149.2	16.2					
	e PKPab	Z	07:32:00.6							
BRG	e PKPbc	Z	07:31:54.0	149.3	23.0					
	e PKPab	Z	07:32:01.1							
BUG	e PKPbc	Z	07:31:55.7	150.0	10.7					
MOX	e PKPbc	Z	07:31:55.7	150.1	19.0					
	e PKPab	Z	07:32:04.2							
WERD	e PKPbc	Z	07:31:55.8	150.1	20.4					
	e PKPab	Z	07:32:04.6							
	e pPKPbc	Z	07:34:07.8							
GUNZ	e PKPbc	Z	07:31:56.2	150.2	20.5					
	e PKPab	Z	07:32:04.9							
UBBA	e PKPbc	Z	07:31:55.6	150.2	16.0					
	e PKPab	Z	07:32:04.4							
GRA1	e PKPbc	Z	07:31:57.7	151.0	18.9					
	e PKPab	Z	07:32:08.8							
	e pPKPbc	Z	07:34:10.9							

	e PP	Z	07:35:38.9		
WET	e PKPbc	Z	07:31:58.3	151.2	22.3
	e PKPab	Z	07:32:09.2		
GEC2	e PKPbc	Z	07:31:58.2	151.2	24.0
	e PKPab	Z	07:32:09.2		
WLF	e PKPbc	Z	07:32:00.6	151.9	9.2
	e PKPab	Z	07:32:12.1		
STU	e PKPbc	Z	07:32:00.5	152.3	15.5
	e PKPab	Z	07:32:13.5		
	e pPKPbc	Z	07:34:13.8		
FUR	e PKPbc	Z	07:32:00.6	152.5	19.9
	e PKPab	Z	07:32:14.3		
BFO	e PKPbc	Z	07:32:02.0	152.9	14.0
	e PKPab	Z	07:32:15.9		
	e pPKPbc	Z	07:34:15.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/17	10:31:24.0	22.811S	179.078W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:51:06.3	148.1	16.5					
NRDL	e PKPbc	Z	10:51:09.6	149.5	16.8					
CLL	i PKPbc	Z	10:51:11.1	150.0	22.7	1.1	48			
	e PKPab	Z	10:51:17.3							
	e pPKPbc	Z	10:53:30.0							
IBBN	e PKPbc	Z	10:51:11.4	150.0	12.7					
CLZ	e PKPbc	Z	10:51:11.5	150.1	17.7					
BRG	e PKPbc	Z	10:51:11.7	150.2	24.7					
MOX	e PKPbc	Z	10:51:13.4	150.9	20.6					
WERD	e PKPbc	Z	10:51:13.6	151.0	22.0					
GUNZ	e PKPbc	Z	10:51:14.0	151.0	22.1					
UBBA	e PKPbc	Z	10:51:13.5	151.1	17.5					
GRA1	e PKPbc	Z	10:51:15.8	151.9	20.5					
WET	e PKPbc	Z	10:51:15.4	152.0	24.0					
GEC2	e PKPbc	Z	10:51:15.8	152.1	25.8					
BFO	e PKPbc	Z	10:51:20.3	153.8	15.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	06:46:28.2	49.637N	156.846E	33.0N	5.8	6.6		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:57:53.1	72.7	22.0	1.0	105	5.9		
RUE	e P	Z	06:57:55.9	73.2	24.0	1.1	168	6.0		

NRDL	e	P		Z	06:58:00.8	74.1	21.7	1.1	113	5.8
CLL	i	P	+	Z	06:58:02.7	74.5	23.4	1.0	190	6.2
	e				06:58:25.5					
	e	PPP		Z	07:02:42.5					
	e	S		E	07:07:45.8					
	e	(SS)		N	07:13:21.2					
	e	(SSS)		N	07:16:15.9					
	e	L		Z	07:35:10.5			18.0	34486	6.7
CLZ	e	P		Z	06:58:04.5	74.6	21.8	1.0	157	6.0
BRG	e	P		Z	06:58:03.8	74.6	23.9	1.0	72	5.6
IBBN	e	P		Z	06:58:05.2	74.7	20.2	0.9	77	5.7
MOX	e	P		Z	06:58:08.7	75.4	22.4	1.1	80	5.8
WERD	e	P		Z	06:58:08.1	75.4	22.8	1.2	76	5.7
GUNZ	e	P		Z	06:58:09.4	75.5	22.9	1.0	59	5.7
UBBA	e	P		Z	06:58:09.6	75.6	21.4	1.1	49	5.5
BUG	e	P		Z	06:58:09.1	75.7	19.8	1.2	86	5.8
GRA1	e	P		Z	06:58:14.7	76.4	22.1	1.0	166	6.1
	e	PP		Z	07:01:10.2					
	e	S		N	07:08:13.0					
	e	L		Z	07:37:47.7			18.2	26809	6.6
WET	e	P		Z	06:58:15.0	76.5	23.1	1.1	102	5.9
GEC2	e	P		Z	06:58:14.9	76.5	23.5	1.1	44	5.5
STU	e	P		Z	06:58:21.8	77.7	20.8	1.1	82	5.8
FUR	e	P		Z	06:58:22.2	77.8	22.0	1.0	54	5.6
BFO	e	P		Z	06:58:25.0	78.3	20.2	1.3	68	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	07:19:25.1	49.453N	156.153E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:31:11.6	76.4	22.6	1.2	16	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	07:24:20.3	49.500N	158.500E	33.0N	5.3			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:35:52.0	73.2	21.0	1.1	32	5.3		
RUE	e P	Z	07:35:55.9	73.7	23.0	0.9	43	5.5		
NRDL	e P	Z	07:36:00.9	74.5	20.7	1.2	24	5.1		
CLL	e P	Z	07:36:02.6	75.0	22.4	1.1	48	5.4		
CLZ	e P	Z	07:36:04.4	75.1	20.8	1.1	46	5.4		
BRG	e P	Z	07:36:03.8	75.2	22.9	1.1	16	5.1		
MOX	e P	Z	07:36:08.6	75.9	21.5	1.2	27	5.2		

WERD	e	P	Z	07:36:08.8	76.0	21.9	1.2	21	5.2
GUNZ	e	P	Z	07:36:09.6	76.0	21.9	1.1	20	5.2
GRA1	e	P	Z	07:36:14.8	76.9	21.1	1.0	39	5.5
WET	e	P	Z	07:36:15.2	77.0	22.1	1.3	34	5.3
GEC2	e	P	Z	07:36:14.6	77.1	22.6	1.3	13	4.9
BFO	e	P	Z	07:36:24.0	78.8	19.2	2.1	50	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	07:46:12.9	48.363N	152.358E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:57:59.4	76.4	25.4	1.0	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	07:50:33.7	49.137N	156.030E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:02:21.6	76.7	22.8	0.9	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	08:50:15.6	49.700N	156.040E	44.9	5.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	09:01:39.7	72.4	22.5	1.2	114	5.9		
RUE	e P	Z	09:01:42.6	72.9	24.5	1.2	196	6.1		
NRDL	e P	Z	09:01:47.5	73.8	22.2	1.2	90	5.7		
CLL	i P	+ Z	09:01:49.3	74.2	23.8	1.1	194	6.1		
	e pP	Z	09:02:01.0							
	e LQ	T	09:24:59.9							
	e L	Z	09:39:56.4			18.0	4294		5.8	
CLZ	e P	Z	09:01:51.0	74.4	22.3	1.2	230	6.1		
BRG	e P	Z	09:01:50.2	74.4	24.4	1.3	93	5.7		
IBBN	e P	Z	09:01:51.5	74.5	20.7	1.1	149	5.9		
MOX	e P	Z	09:01:55.3	75.2	22.9	1.2	100	5.8		
WERD	e P	Z	09:01:55.4	75.2	23.3	1.3	127	5.9		
GUNZ	e P	Z	09:01:56.0	75.2	23.3	1.2	111	5.9		
UBBA	e P	Z	09:01:56.3	75.4	21.9	1.5	123	5.8		
BUG	e P	Z	09:01:56.8	75.4	20.3	1.2	134	5.9		
GRA1	e P	Z	09:02:01.1	76.1	22.6	1.2	250	6.2		
	e pP	Z	09:02:14.0							

WET	e P	Z	09:02:01.8	76.2	23.5	1.3	172	6.0
GEC2	e P	Z	09:02:01.6	76.3	24.0	1.2	68	5.7
STU	e P	Z	09:02:08.5	77.5	21.2	1.3	110	5.8
FUR	e P	Z	09:02:09.0	77.5	22.5	1.4	191	6.0
BFO	e P	Z	09:02:11.8	78.1	20.7	1.2	70	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	09:12:48.7	40.922N	10.190E	10.0G				neir-m

Tyrrhenian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	09:14:38.2	7.5	169.2					
STU	e P	Z	09:14:43.6	7.9	174.5					
GEC2	e P	Z	09:14:48.8	8.3	198.7					
WET	e P	Z	09:14:51.1	8.4	194.0					
GRA1	e P	Z	09:14:55.8	8.8	185.1					
GUNZ	e P	Z	09:15:06.2	9.6	189.8					
WERD	e P	Z	09:15:08.1	9.6	189.6					
MOX	e P	Z	09:15:09.0	9.8	186.4					
BRG	e P	Z	09:15:16.4	10.3	196.1					
CLL	e P	Z	09:15:19.3	10.6	191.7					
CLZ	e P	Z	09:15:23.7	10.9	180.7					
NRDL	e P	Z	09:15:30.9	11.6	179.7	1.6	36			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:56:00.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:47:37.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	17:15:27.4	16.800S	174.700W	33.0N				GSRC-M

Tonga Islands

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

	GRA1	e PKP	Z	17:35:08.9	146.8	10.4						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18	17:57:33.1	15.342S	71.099W	33.0N	5.6			SZGRF

Southern Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:11:02.0	96.8	254.3	1.3	22	5.6		
CLL	e P	Z	18:11:08.8	98.2	255.8					
	e L	Z	18:55:39.0			18.0	3514		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z	19:37:20.4							
GRA1	e PKP	Z	19:37:26.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	03:07:44.8	19.790S	170.720E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GUNZ	e PKPbc	Z	03:27:17.0	145.0	37.1					
MOX	e PKPbc	Z	03:27:16.2	145.0	35.8					
UBBA	e PKPbc	Z	03:27:18.8	145.4	33.2					
GEC2	e PKPbc	Z	03:27:20.0	145.6	40.5					
WET	e PKPbc	Z	03:27:20.6	145.7	39.0					
BUG	e PKPbc	Z	03:27:20.2	145.8	28.5					
GRA1	e PKPbc	Z	03:27:20.3	145.9	36.0					
FUR	e PKPbc	Z	03:27:24.3	147.1	37.5					
STU	e PKPbc	Z	03:27:24.8	147.4	33.6					
WLF	e PKPbc	Z	03:27:26.6	147.7	27.9					
BFO	e PKPbc	Z	03:27:27.3	148.1	32.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	05:22:52.9	36.213N	140.403E	33.0N	5.5	4.9		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:35:15.6	83.1	39.1	0.9	26	5.5		

e pP	Z	05:35:27.5					
e L	Z	06:15:34.6			19.3	523	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	08:23:49.0	10.030N	78.280W	33.0N	5.8	4.6		SZGRF

North of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	08:35:49.7	78.8	272.3	1.0	168	6.0		
BUG	e P	Z	08:35:52.6	79.4	272.8	1.6	170	5.8		
IBBN	e P	Z	08:35:54.1	79.7	273.1	1.2	92	5.6		
BFO	e P	Z	08:35:57.0	80.3	274.2	1.4	71	5.4		
STU	e P	Z	08:36:00.2	80.8	274.8	1.1	89	5.7		
NRDL	e P	Z	08:36:02.0	81.1	274.9	1.5	115	5.7		
BSEG	e P	Z	08:36:01.7	81.1	274.8	2.4	222	5.8		
UBBA	e P	Z	08:36:02.1	81.2	275.1	1.6	89	5.5		
CLZ	e P	Z	08:36:03.1	81.3	275.2	1.1	85	5.7		
GRA1	e P	Z	08:36:07.0	82.0	276.2	3.3	1160	6.4		
	e L	Z	09:06:38.2			20.9	255		4.6	
MOX	e P	Z	08:36:07.5	82.2	276.3	1.2	42	5.5		
FUR	e P	Z	08:36:08.0	82.2	276.4	1.2	66	5.6		
WERD	e P	Z	08:36:10.0	82.7	276.9	1.2	61	5.7		
GUNZ	e P	Z	08:36:10.3	82.7	276.9	1.2	47	5.6		
CLL	i P	- Z	08:36:11.8	83.0	277.3	1.2	71	5.8		
	e pP	Z	08:36:28.6							
	e L	Z	09:06:06.9			21.9	275		4.6	
WET	e P	Z	08:36:13.0	83.2	277.5	1.7	199	6.1		
RUE	e P	Z	08:36:13.3	83.3	277.8	1.1	77	5.8		
BRG	e P	Z	08:36:15.2	83.6	278.1	5.6	3605	6.8		
GEC2	e P	Z	08:36:15.7	83.8	278.1	1.1	80	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	10:16:50.0	39.848N	142.144E	33.0N	4.8			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:28:59.7	80.6	36.0	1.0	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	13:37:17.6							

	WET	e	Pn		Z	13:37:22.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	15:14:52.0	7.254N	123.912E	600.0G				gsrc-m

Mindanao, Philippine Islands

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	Pdiff	Z	15:27:18.1	96.2	69.5					
BRG	e	Pdiff	Z	15:27:20.0	96.7	69.8					
CLL	e	Pdiff	Z	15:27:23.2	97.1	69.0					
GEC2	e	Pdiff	Z	15:27:24.4	97.5	69.9					
BSEG	e	Pdiff	Z	15:27:24.5	97.6	66.5					
WERD	e	Pdiff	Z	15:27:24.9	97.8	68.6					
GUNZ	e	Pdiff	Z	15:27:25.2	97.8	68.6					
WET	e	Pdiff	Z	15:27:27.2	97.9	69.2					
MOX	e	Pdiff	Z	15:27:28.0	98.1	68.0					
NRDL	e	Pdiff	Z	15:27:28.0	98.3	66.5					
CLZ	e	Pdiff	Z	15:27:28.8	98.4	66.8					
GRA1	e	Pdiff	Z	15:27:29.7	98.7	67.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	20:13:42.4	18.010S	179.090W	600.0G				SZGRF

Fiji Islands region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKP	Z	20:32:05.8	143.3	15.1					
RUE	e	PKPbc	Z	20:32:08.3	144.1	21.2					
NRDL	e	PKPbc	Z	20:32:10.3	144.8	15.3					
CLL	e	PKPdf	Z	20:32:10.3	145.3	20.5					
	i	PKPbc	- Z	20:32:12.3			0.5	69			
	i	PKPab	Z	20:32:13.9			0.8	135			
	e	pPKP	Z	20:34:25.2							
	i	SKPbc	Z	20:34:57.9			0.8	28			
	e	PP	Z	20:35:40.6							
CLZ	e	PKPbc	Z	20:32:13.8	145.4	16.0					
BRG	e	PKPbc	Z	20:32:14.3	145.5	22.3					
BUG	e	PKPbc	Z	20:32:15.9	146.2	10.9					
MOX	e	PKPbc	Z	20:32:16.1	146.3	18.5					
WERD	e	PKPbc	Z	20:32:16.6	146.3	19.8					
GUNZ	e	PKPbc	Z	20:32:17.0	146.4	19.9					
GRA1	e	PKPbc	Z	20:32:18.7	147.3	18.3					
	e	PKPab	Z	20:32:21.7							
	e	pPKPbc	Z	20:34:30.1							
WET	e	PKPbc	Z	20:32:19.1	147.4	21.5					
	e	PKPab	Z	20:32:22.4							

	e pPKPbc	Z	20:34:30.1			
GEC2	e PKPbc	Z	20:32:19.3	147.5	23.1	
	e pPKPbc	Z	20:34:30.2			
WLF	e PKPbc	Z	20:32:21.6	148.1	9.5	
	e pPKPbc	Z	20:34:31.5			
STU	e PKPbc	Z	20:32:22.0	148.5	15.2	
	e PKPab	Z	20:32:26.3			
	e pPKPbc	Z	20:34:34.4			
FUR	e PKPbc	Z	20:32:22.5	148.7	19.2	
	e PKPab	Z	20:32:27.6			
	e pPKPbc	Z	20:34:34.8			
BFO	e PKPbc	Z	20:32:23.5	149.1	13.8	
	e pPKPbc	Z	20:34:36.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	20:34: 1.9	17.193S	178.898W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:53:26.7	142.6	14.6					
RUE	e PKPbc	Z	20:53:29.6	143.3	20.6					
NRDL	e PKPbc	Z	20:53:31.9	144.0	14.7					
IBBN	e PKPbc	Z	20:53:33.1	144.5	11.0					
CLZ	e PKPbc	Z	20:53:33.3	144.6	15.4					
CLL	e PKPbc	Z	20:53:33.1	144.6	19.9					
BRG	e PKPbc	Z	20:53:33.8	144.8	21.6					
WERD	e PKPbc	Z	20:53:36.2	145.6	19.2					
GRA1	e PKPbc	Z	20:53:39.2	146.5	17.7					
GEC2	e PKPbc	Z	20:53:39.3	146.7	22.3					
WLF	e PKPbc	Z	20:53:41.5	147.3	8.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	22:39:13.5	55.110N	158.840W	42.7	5.4	4.5		SZGRF

Alaska Peninsula, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	22:50:26.8	70.6	353.4	1.1	52	5.6		
NRDL	e P	Z	22:50:35.1	72.0	353.4	1.0	37	5.5		
IBBN	e P	Z	22:50:35.4	72.0	352.0	0.9	48	5.6		
RUE	e P	Z	22:50:36.6	72.2	355.6	1.1	92	5.8		
CLZ	e P	Z	22:50:39.5	72.7	353.6	1.1	44	5.5		
BUG	e P	Z	22:50:39.8	72.8	351.7	1.9	207	5.9		
CLL	e P	Z	22:50:42.8	73.4	355.1	0.9	33	5.3		
	e pP	Z	22:50:54.8							
UBBA	e P	Z	22:50:44.9	73.7	353.4	1.4	19	4.9		

	BRG	e	P	Z	22:50:45.9	73.8	355.7	1.0	26	5.2
		e	pP	Z	22:50:58.1					
	MOX	e	P	Z	22:50:46.7	73.9	354.3	1.2	72	5.6
		e	pP	Z	22:50:58.9					
	WERD	e	P	Z	22:50:48.0	74.2	354.8	1.2	25	5.1
	GUNZ	e	P	Z	22:50:48.5	74.3	354.8	1.1	25	5.1
		e	pP	Z	22:51:00.6					
	WLF	e	P	Z	22:50:49.8	74.5	351.2	1.1	54	5.5
	GRA1	e	P	Z	22:50:52.3	74.9	354.1	0.9	37	5.4
		e	L	Z	23:21:08.2			26.8	358	4.5
		e	L	Z	23:25:52.0			21.0	252	
	WET	e	P	Z	22:50:55.9	75.5	355.1	1.3	34	5.3
	STU	e	P	Z	22:50:56.4	75.6	353.0	1.1	32	5.4
	GEC2	e	P	Z	22:50:57.8	75.9	355.6	1.0	20	5.2
	BFO	e	P	Z	22:50:58.2	76.0	352.5	1.5	49	5.4
	FUR	e	P	Z	22:51:00.8	76.4	354.2	1.6	102	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/19	23:32:33.0	36.562N	21.247E	21.0G				mso-m

Southern Greece

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e	P	Z 23:36:09.7	15.0	147.3	1.4	63			
	GUNZ	e	P	Z 23:36:14.0	15.2	151.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/20	03:59:38.0				4.8	4.9		SZGRF

Southern Greece

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e	P	Z 04:12:23.5			0.9	4	4.8		
		e	L	Z 04:59:02.0			19.1	474		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/20	07:39:36.7	15.321S	175.078W	268.7				SZGRF

Tonga Islands

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	CLZ	e	PKPbc	Z 07:58:34.8	143.2	8.8					
	CLL	e	PKPbc	Z 07:58:34.9	143.4	13.2					
	BRG	e	PKPbc	Z 07:58:36.1	143.7	14.8					
	BUG	e	PKPbc	Z 07:58:37.0	143.8	3.8					
	MOX	e	PKPbc	Z 07:58:38.0	144.3	11.1					

UBBA	e PKPbc	Z	07:58:37.4	144.3	8.4	
WERD	e PKPbc	Z	07:58:38.4	144.4	12.3	
GUNZ	e PKPbc	Z	07:58:38.8	144.4	12.4	
GRA1	e PKPbc	Z	07:58:41.7	145.2	10.7	
	e pPKPbc	Z	07:59:47.9			
WET	e PKPbc	Z	07:58:42.0	145.6	13.7	
	e pPKPbc	Z	07:59:49.9			
WLF	e PKPbc	Z	07:58:42.7	145.6	2.1	
	e pPKPbc	Z	07:59:48.9			
GEC2	e PKPbc	Z	07:58:42.3	145.7	15.1	
	e pPKPbc	Z	07:59:49.0			
BFO	e PKPbc	Z	07:58:45.7	146.9	6.0	
	e pPKPbc	Z	07:59:51.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/20	16:32:22.8	43.127N	15.436E	10.0G			3.2	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	16:33:16.8	3.4	169.1					3.5
ARSA	e Pn	Z	16:33:25.4	4.1	180.9					
KBA	e Pn	Z	16:33:26.8	4.2	158.8					3.1
	e Sn	E	16:34:15.5							
MOA	e Pn	Z	16:33:35.5	4.8	169.7					3.2
	e Sn	E	16:34:29.5							
WTTA	e Pn	Z	16:33:36.4	4.9	145.7					
DAVA	e Pn	Z	16:33:48.0	5.7	134.7					3.2
	e Sn	N	16:34:50.6							
GEC2	e Pn	Z	16:33:48.8	5.8	167.5					
	e Sn	E	16:34:54.0							
WET	e Pn	Z	16:33:54.2	6.3	162.7					
	e Sn	E	16:35:02.5							
GUNZ	e Pn	Z	16:34:12.0	7.5	162.5					
TANN	e Pn	Z	16:34:12.0	7.6	163.3					
WERD	e Pn	Z	16:34:13.2	7.6	162.5					
MOX	e Pn	Z	16:34:16.7	8.0	159.4					
	e Sn	N	16:35:43.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/20								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:38:30.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/20	23:02:16.8	37.120N	28.140E	10.0G		4.7		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	23:06:09.1	16.3	131.7	1.0	327			
FUR	e P	Z	23:06:10.0	16.5	125.7					
BRG	e P	Z	23:06:17.5	17.1	138.2					
GUNZ	e P	Z	23:06:21.4	17.4	133.5					
WERD	e P	Z	23:06:22.8	17.5	133.6					
GRA1	e P	Z	23:06:22.3	17.5	129.5					
	e L	Z	23:13:43.0			20.1	4464		4.7	
CLL	e P	Z	23:06:25.7	17.8	137.0					
MOX	e P	Z	23:06:29.3	17.9	132.6					
STU	e P	Z	23:06:29.1	18.0	123.2					
BFO	e P	Z	23:06:31.7	18.3	120.5					
RUE	e P	Z	23:06:32.1	18.4	141.1					
CLZ	e P	Z	23:06:42.7	19.3	132.7					
WLF	e P	Z	23:06:52.4	20.2	120.1					
BUG	e P	Z	23:06:56.1	20.6	126.0					
BSEG	e P	Z	23:06:58.1	20.8	136.6					
IBBN	e P	Z	23:06:59.4	20.8	128.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/21	00:23:33.2	36.949N	28.267E	2.0G				kan-m

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:27:24.6	15.9	132.9					
WET	e P	Z	00:27:31.3	16.5	131.8					
MOX	e P	Z	00:27:50.2	18.1	132.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/21	15:34:29.2	42.949N	145.886E	39.5	5.9	5.4		SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:46:12.2	75.9	31.9	1.0	218	6.3		
RUE	e P	Z	15:46:12.4	76.0	34.0	1.1	204	6.2		
NRDL	e P	Z	15:46:19.1	77.2	31.6	1.1	89	5.8		
CLL	i P	+ Z	15:46:19.1	77.3	33.4	0.9	277	6.4		
	e pP	Z	15:46:30.4							
	e sP	Z	15:46:35.6							
	e PP	Z	15:49:12.0							

	e PPP	Z	15:51:14.1						
	e S	N	15:56:03.3						
	e PS	Z	15:56:56.6						
	e (SS)	E	16:01:52.0						
	e LR	Z	16:13:31.5						
	e L	Z	16:23:08.5			22.0	2809		5.5
BRG	e P	Z	15:46:19.4	77.3	33.9	1.1	79	5.8	
CLZ	e P	Z	15:46:22.3	77.7	31.7	1.1	215	6.2	
IBBN	e P	Z	15:46:24.4	78.1	29.9	1.0	237	6.3	
WERD	e P	Z	15:46:24.5	78.2	32.8	1.1	68	5.6	
GUNZ	e P	Z	15:46:25.1	78.3	32.8	1.1	78	5.7	
MOX	e P	Z	15:46:25.1	78.3	32.4	1.1	88	5.7	
UBBA	e P	Z	15:46:26.9	78.7	31.3	1.3	53	5.4	
BUG	e P	Z	15:46:29.0	79.0	29.5	1.1	144	5.9	
GEC2	e P	Z	15:46:29.3	79.1	33.5	1.1	62	5.6	
WET	e P	Z	15:46:30.2	79.1	33.0	1.0	154	6.0	
GRA1	e P	Z	15:46:30.5	79.2	32.0	1.0	226	6.0	
	e pP	Z	15:46:41.9						
	e sP	Z	15:46:46.9						
	e L	Z	16:24:48.5			21.1	1966		5.4
FUR	e P	Z	15:46:37.6	80.5	31.9	1.1	194	6.1	
STU	e P	Z	15:46:38.4	80.7	30.6	0.9	112	5.9	
WLF	e P	Z	15:46:39.5	80.9	28.6	1.2	57	5.5	
BFO	e P	Z	15:46:41.6	81.4	30.0	1.1	65	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/21	17:21: 9.6	60.940N	148.230W	33.0G	5.4	4.2		SZGRF

Kenai Peninsula, Alaska, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:31:41.8	63.9	348.6	1.0	21	5.3		
IBBN	e P	Z	17:31:50.1	65.1	347.4	1.1	35	5.5		
NRDL	e P	Z	17:31:50.6	65.3	348.6	1.2	34	5.4		
RUE	e P	Z	17:31:53.6	65.7	350.5	1.0	42	5.6		
BUG	e P	Z	17:31:54.8	65.9	347.3	0.8	32	5.6		
CLZ	e P	Z	17:31:55.4	65.9	348.8	1.0	39	5.6		
CLL	e P	Z	17:31:59.9	66.7	350.2	1.0	23	5.4		
UBBA	e P	Z	17:32:00.7	66.9	348.7	1.3	15	5.1		
MOX	e P	Z	17:32:03.4	67.2	349.5	1.1	42	5.6		
	e pP	Z	17:32:12.4							
BRG	e P	Z	17:32:03.3	67.3	350.7	1.4	46	5.5		
WLF	e P	Z	17:32:05.0	67.5	346.9	0.9	29	5.5		
WERD	e P	Z	17:32:05.1	67.5	349.9	1.0	18	5.2		
	e pP	Z	17:32:14.4							
GUNZ	e P	Z	17:32:05.8	67.6	349.9	1.1	26	5.4		
GRA1	e P	Z	17:32:09.2	68.1	349.4	0.9	24	5.4		
	e L	Z	18:03:35.7			22.0	162		4.2	

STU	e P	Z	17:32:13.0	68.8	348.5	1.1	20	5.3
WET	e P	Z	17:32:13.9	68.9	350.3	1.3	38	5.5
BFO	e P	Z	17:32:14.7	69.1	348.1	1.1	17	5.2
GEC2	e P	Z	17:32:15.9	69.3	350.7	1.7	38	5.2
	e pP	Z	17:32:25.2					
FUR	e P	Z	17:32:18.8	69.6	349.5	1.1	66	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/21	19:46:41.0	1.600N	127.400E	119.0N				NEIR-M

Halmahera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	20:05:03.8	105.3	68.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/22	20:47:37.0	43.527N	127.494W	33.0N	4.7			SZGRF

Off coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:59:43.7	80.1	330.9	1.1	12	4.7		
	e		21:00:02.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z	21:23:32.9							
FUR	e PKP	Z	21:23:36.9							
GRA1	e PKP	Z	21:23:39.2							
	e L	Z	22:44:46.9			19.8	1110			
IBBN	e PKP	Z	21:23:40.1							
MOX	e PKP	Z	21:23:42.0							
STU	e PKP	Z	21:23:35.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/22	23:53:29.1	15.300S	167.600E	33.0N				GSRC-M

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:12:56.2	140.6	37.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:09:23.4			1.5	8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:24:54.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23	12:03:46.7	37.370N	139.043E	33.0N	4.7			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:16:01.2	81.5	39.4	1.1	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23	14:59: 4.8	50.220S	162.720E	33.0N		8.1		SZGRF

Auckland Islands, New Zealand, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPdf	Z	15:19:02.5	160.0	105.7					
BRG	e PKPdf	Z	15:19:02.3	160.3	100.3					
WET	e PKPdf	Z	15:19:02.1	160.6	104.7					
	e PP	Z	15:23:25.6							
RUE	e PKPdf	Z	15:19:03.2	160.6	95.8					
	e PP	Z	15:23:25.6							
CLL	e PKPdf	Z	15:19:02.6	161.0	98.7	2.0	210			
	e PKPab	Z	15:19:40.2							
	e PP	Z	15:23:42.7							
	e PPP	Z	15:27:08.1							
	e SKKSac	E	15:30:30.7							
	e SKSP	Z	15:34:01.8							
	e PPS	E	15:36:57.4							
	e SS	N	15:43:37.5							
	e PSPS	E	15:44:52.5							
	e SSS	E	15:49:36.2							
	e SSSS	N	15:53:52.8							

	e LR	Z	16:14:54.3						
	e L	Z	16:35:17.2			22.0	303456		8.1
	e R3	Z	19:24:34.3						
	e R4	Z	19:47:07.3						
RGN	e PP	Z	15:23:27.7	161.0	89.5				
GUNZ	e PKPdf	Z	15:19:03.0	161.2	101.1				
WERD	e PKPdf	Z	15:19:03.2	161.2	100.8				
FUR	e PKPdf	Z	15:19:04.1	161.3	107.1				
	e PP	Z	15:23:29.8						
MOX	e PKPdf	Z	15:19:03.6	161.7	99.9				
GRA1	e PKPdf	Z	15:19:05.4	161.8	102.6				
	e PP	Z	15:23:33.1						
	e SS	N	15:43:38.5						
	e SSS	Z	15:49:46.7						
	e L	Z	16:36:13.7			22.0	271524		8.1
CLZ	e PKPdf	Z	15:19:04.9	162.6	95.6				
	e PP	Z	15:23:37.9						
UBBA	e PP	Z	15:23:36.5	162.7	98.7				
BSEG	e PKPdf	Z	15:19:04.1	162.8	88.8				
STU	e PKPdf	Z	15:19:06.2	162.8	104.9				
	e PP	Z	15:23:37.5						
NRDL	e PKPdf	Z	15:19:05.4	162.9	93.3				
	e PP	Z	15:23:36.1						
BFO	e PKPdf	Z	15:19:06.7	163.3	106.1				
	e PP	Z	15:23:40.3						
IBBN	e PKPdf	Z	15:19:05.8	164.3	92.4				
	e PP	Z	15:23:44.9						
BUG	e PKPdf	Z	15:19:05.9	164.5	95.1				
	e PP	Z	15:23:45.6						
WLF	e PKPdf	Z	15:19:07.5	165.0	101.1				
	e PP	Z	15:23:48.4						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23	19:50:17.3	33.271N	44.303W	33.0N	4.5			SZGRF

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:58:18.4	43.6	269.5	1.8	18	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23	19:50: 2.3	49.900S	161.700E	33.0N				GSRC-M

North of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:09:59.1	161.1	102.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/23	22:04:37.0							SZGRF

North of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:10:55.6							
GEC2	e P	Z	22:11:13.3							
GRA1	e P	Z	22:11:08.2							
GUNZ	e P	Z	22:11:00.9							
MOX	e P	Z	22:10:58.6							
NOTT	e P	Z	22:11:05.8							
TANN	e P	Z	22:11:01.2							
WERD	e P	Z	22:11:00.4							
WET	e P	Z	22:11:10.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/24	05:31:55.9	50.200S	158.810E	33.0N				SZGRF

North of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPab	Z	05:52:18.5	157.5	106.8					
BRG	e PKPab	Z	05:52:20.5	157.9	102.1					
WET	e PKPab	Z	05:52:21.5	158.1	105.8					
RUE	e PKPab	Z	05:52:21.8	158.3	98.1					
GUNZ	e PKPab	Z	05:52:24.2	158.8	102.6					
WERD	e PKPab	Z	05:52:24.3	158.8	102.4					
FUR	e PKPab	Z	05:52:24.5	158.9	107.8					
MOX	e PKPab	Z	05:52:26.4	159.3	101.6					
GRA1	e PKPab	Z	05:52:26.9	159.3	103.9					
CLZ	e PKPab	Z	05:52:29.8	160.2	97.8					
UBBA	e PKPab	Z	05:52:31.0	160.3	100.4					
STU	e PKPab	Z	05:52:31.1	160.3	105.7					
BSEG	e PKPab	Z	05:52:31.8	160.4	91.9					
NRDL	e PKPab	Z	05:52:31.9	160.5	95.8					
BFO	e PKPab	Z	05:52:33.0	160.8	106.7					
IBBN	e PKPab	Z	05:52:37.7	161.9	94.9					
BUG	e PKPab	Z	05:52:38.8	162.1	97.3					
WLF	e PKPab	Z	05:52:40.7	162.5	102.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/24	13:31:10.3	21.335S	177.374W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:50:49.0	146.9	13.2					
RUE	e PKPbc	Z	13:50:50.8	147.7	19.7					
NRDL	e PKPbc	Z	13:50:52.9	148.3	13.3					
CLL	e PKPbc	Z	13:50:54.6	149.0	19.0					
	e PKPab	Z	13:50:58.6							
BRG	e PKPbc	Z	13:50:55.1	149.2	20.9					
MOX	e PKPbc	Z	13:50:56.7	149.9	16.8					
	e PKPab	Z	13:51:02.4							
UBBA	e PKPbc	Z	13:50:56.7	150.0	13.8					
GRA1	e PKPbc	Z	13:50:59.4	150.8	16.6					
	e PKPab	Z	13:51:07.0							
WET	e PKPab	Z	13:51:07.8	151.0	20.0					
GEC2	e PKPbc	Z	13:50:59.4	151.1	21.7					
WLF	e PKPbc	Z	13:51:01.3	151.5	6.9					
	e PKPab	Z	13:51:10.4							
STU	e PKPbc	Z	13:51:02.1	152.1	13.1					
	e PKPab	Z	13:51:12.0							
FUR	e PKPab	Z	13:51:13.5	152.3	17.5					
BFO	e PKPbc	Z	13:51:03.0	152.6	11.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/24	13:38:34.9	21.840S	178.020W	613.5				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:58:14.8	147.3	14.4					
RUE	e PKPbc	Z	13:58:16.6	148.0	21.0					
NRDL	e PKPbc	Z	13:58:18.8	148.7	14.6					
IBBN	e PKPdf	Z	13:58:16.3	149.2	10.5					
	e PKPbc	Z	13:58:20.0							
	e PKPab	Z	13:58:24.5							
CLZ	e PKPdf	Z	13:58:16.3	149.3	15.4					
	e PKPbc	Z	13:58:20.1							
CLL	e PKPdf	Z	13:58:16.8	149.3	20.3					
	i PKPbc	- Z	13:58:20.2			1.0	224			
	e PKPab	Z	13:58:24.8							
	e pPKPbc	Z	14:00:40.0							
	e SKPbc	Z	14:01:00.9							
	e PP	Z	14:01:48.8							
BRG	e PKPbc	Z	13:58:20.5	149.5	22.3					
BUG	e PKPdf	Z	13:58:17.9	150.1	9.9					
	e PKPbc	Z	13:58:22.1							
MOX	e PKPbc	Z	13:58:22.5	150.2	18.2					
WERD	e PKPbc	Z	13:58:22.6	150.3	19.6					
GUNZ	e PKPbc	Z	13:58:22.9	150.3	19.7					

	e PKPab	Z	13:58:29.4			
UBBA	e PKPbc	Z	13:58:23.0	150.3	15.2	
GRA1	e PKPbc	Z	13:58:25.3	151.2	18.0	
	e PKPab	Z	13:58:32.6			
WET	e PKPbc	Z	13:58:25.8	151.4	21.5	
	e PKPab	Z	13:58:33.7			
GEC2	e PKPbc	Z	13:58:25.5	151.4	23.2	
WLF	e PKPbc	Z	13:58:27.3	152.0	8.3	
	e PKPab	Z	13:58:36.3			
STU	e PKPdf	Z	13:58:22.2	152.5	14.6	
	e PKPbc	Z	13:58:27.9			
FUR	e PKPbc	Z	13:58:28.2	152.6	19.0	
	e PKPab	Z	13:58:38.9			
BFO	e PKPbc	Z	13:58:28.9	153.0	13.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/24	13:48:48.2	21.180S	175.090W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:08:27.8	147.0	9.3					
RUE	e PKPbc	Z	14:08:29.8	148.0	15.7					
NRDL	e PKPbc	Z	14:08:31.4	148.4	9.3					
IBBN	e PKPbc	Z	14:08:33.3	148.8	5.1					
CLL	e PKPbc	Z	14:08:33.2	149.2	14.9	0.7	62			
	i PKPab	Z	14:08:37.8							
	e pPKPbc	Z	14:10:54.3							
	e SKPbc	Z	14:11:15.2							
BRG	e PKPbc	Z	14:08:34.0	149.5	16.8					
BUG	e PKPbc	Z	14:08:35.4	149.7	4.4					
MOX	e PKPbc	Z	14:08:35.1	150.1	12.6					
UBBA	e PKPbc	Z	14:08:35.5	150.1	9.6					
WERD	e PKPbc	Z	14:08:35.8	150.2	14.0					
	e PKPab	Z	14:08:41.6							
GUNZ	e PKPbc	Z	14:08:36.1	150.2	14.0					
	e PKPab	Z	14:08:42.2							
GRA1	e PKPbc	Z	14:08:37.7	151.1	12.2					
WET	e PKPab	Z	14:08:46.7	151.3	15.6					
GEC2	e PKPbc	Z	14:08:38.2	151.5	17.4					
WLF	e PKPbc	Z	14:08:39.9	151.5	2.4					
STU	e PKPbc	Z	14:08:40.6	152.2	8.6					
FUR	e PKPab	Z	14:08:51.9	152.5	13.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/24								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	19:56:09.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:35:50.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/25	02:43: 9.4	45.377N	151.234E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:55:09.2	78.8	27.4	0.9	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:45:09.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	00:58:48.2	2.757N	96.915E	33.0N	7.1	8.6		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:11:12.0	83.4	93.7	1.4	1765	7.1		
	e S	N	01:21:40.1							
GEC2	e P	Z	01:11:12.3	83.5	93.3	1.4	3286	7.4		
	e S	N	01:21:40.5							
	e L	Z	01:53:33.8			21.2	2204429		8.5	
RUE	e P	Z	01:11:13.2	83.6	93.8	1.5	5034	7.5		
WET	e P	Z	01:11:14.9	84.0	92.7	1.3	1360	7.0		
	e S	N	01:21:47.5							
RGN	e P	Z	01:11:15.1	84.0	93.6	1.6	4403	7.4		
	e S	N	01:21:44.2							
CLL	e P	Z	01:11:16.1	84.0	93.0	1.2	964	6.9		
	e S	N	01:21:44.8							
	e L	Z	01:57:34.7			21.9	3418210		8.7	

WERD	e P	Z	01:11:16.3	84.4	92.4	1.5	1310	6.9	
MOX	e P	Z	01:11:19.7	84.9	91.9	1.5	1780	7.1	
	e S	N	01:21:52.8						
	e L	Z	01:58:05.2			19.8	4281420		8.8
FUR	e P	Z	01:11:20.0	85.0	91.4	1.5	2116	7.1	
GRA1	e P	Z	01:11:21.2	85.1	91.5	1.2	1793	7.2	
	e S	N	01:21:58.6						
	e L	Z	01:58:35.0			19.2	3111190		8.7
CLZ	e P	Z	01:11:22.8	85.7	91.0	1.4	1996	7.0	
	e S	N	01:22:02.1						
BSEG	e P	Z	01:11:23.6	85.8	91.1	1.5	3231	7.2	
	e S	N	01:22:03.1						
NRDL	e P	Z	01:11:24.7	85.9	90.9	1.5	3096	7.2	
	e S	N	01:22:03.7						
UBBA	e P	Z	01:11:25.0	85.9	90.6	1.8	1614	6.9	
	e S	N	01:22:04.2						
STU	e P	Z	01:11:27.2	86.4	89.9	1.9	2839	7.1	
	e S	N	01:22:08.2						
	e L	Z	01:59:31.4			21.6	2212330		8.5
BFO	e P	Z	01:11:29.7	87.0	89.2	1.1	616	6.7	
	e S	N	01:22:15.3						
HLG	e S	N	01:22:18.4	87.2	89.2				
IBBN	e P	Z	01:11:31.7	87.3	89.0	1.2	1895	7.1	
	e S	N	01:22:15.8						
BUG	e P	Z	01:11:33.6	87.6	88.6	1.6	2772	7.3	
	e S	N	01:22:21.2						
	e L	Z	02:01:19.0			21.8	2580959		8.6
WLF	e P	Z	01:11:36.9	88.4	87.6	1.3	1088	7.0	
	e S	N	01:22:30.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	01:21:58.8	12.169N	92.522E	33.0N	6.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:33:38.2	75.1	88.6	1.6	521	6.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	01:25:48.8	5.434N	94.499E	33.0N	6.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:37:54.2	79.8	93.9	1.4	262	6.0		
GEC2	e P	Z	01:37:54.1	79.9	93.4	1.2	297	6.1		
RUE	e P	Z	01:37:55.0	80.0	94.1	1.0	282	6.2		

WET	e P	Z	01:37:57.2	80.4	92.8	1.2	182	5.9
CLL	e P	Z	01:37:56.8	80.4	93.2	1.3	212	5.9
WERD	e P	Z	01:37:59.1	80.8	92.6	1.3	122	5.8
FUR	e P	Z	01:38:02.0	81.4	91.4	1.7	367	6.1
GRA1	e P	Z	01:38:03.4	81.5	91.6	1.3	334	6.3
CLZ	e P	Z	01:38:06.1	82.1	91.2	1.2	217	6.2
BSEG	e P	Z	01:38:06.3	82.2	91.5	1.1	256	6.3
NRDL	e P	Z	01:38:07.3	82.3	91.1	1.4	284	6.2
IBBN	e P	Z	01:38:14.4	83.7	89.2	1.6	473	6.5
BUG	e P	Z	01:38:16.2	84.0	88.8	1.4	333	6.4
WLF	e P	Z	01:38:20.4	84.8	87.7	1.9	576	6.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	01:48:49.5	5.010N	94.310E	33.0N	5.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:00:55.7	80.0	94.3	0.7	32	5.3		
GEC2	e P	Z	02:00:56.1	80.1	93.8	0.8	77	5.7		
RUE	e P	Z	02:00:56.6	80.3	94.5	0.7	124	6.0		
WET	e P	Z	02:00:58.9	80.6	93.2	0.8	38	5.5		
CLL	e P	Z	02:00:58.5	80.7	93.7	0.9	27	5.3		
MOX	e P	Z	02:01:03.3	81.5	92.5	0.7	21	5.4		
FUR	e P	Z	02:01:03.8	81.6	91.8	0.7	38	5.6		
GRA1	e P	Z	02:01:05.2	81.7	92.0	0.8	56	5.8		
CLZ	e P	Z	02:01:07.7	82.3	91.7	0.7	35	5.6		
BSEG	e P	Z	02:01:08.3	82.4	91.9	0.9	60	5.7		
NRDL	e P	Z	02:01:09.0	82.5	91.5	1.5	212	6.2		
UBBA	e P	Z	02:01:08.5	82.5	91.2	0.7	8	5.1		
STU	e P	Z	02:01:11.1	83.0	90.4	0.7	32	5.7		
BFO	e P	Z	02:01:13.9	83.6	89.7	0.7	28	5.6		
IBBN	e P	Z	02:01:16.1	83.9	89.7	0.7	47	5.8		
BUG	e P	Z	02:01:17.7	84.2	89.2	1.0	59	5.8		
WLF	e P	Z	02:01:21.9	85.0	88.2	0.8	22	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	01:59:21.5	9.470N	91.770E	33.0N	5.0			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:11:00.3	75.0	93.4	1.0	12	4.9		
GEC2	e P	Z	02:11:00.7	75.0	92.7	0.9	15	5.0		
RUE	e P	Z	02:11:01.2	75.2	93.7	0.8	23	5.2		
WET	e P	Z	02:11:03.9	75.6	92.1	0.9	12	5.0		
CLL	e P	Z	02:11:03.5	75.6	92.8	0.9	9	4.9		

MOX	e P	Z	02:11:08.9	76.5	91.5	0.8	5	4.7
FUR	e P	Z	02:11:09.1	76.6	90.7	0.8	12	5.1
GRA1	e P	Z	02:11:10.5	76.7	91.0	0.9	20	5.2
CLZ	e P	Z	02:11:13.3	77.3	90.8	0.9	10	5.0
BSEG	e P	Z	02:11:13.6	77.3	91.3	0.9	15	5.1
NRDL	e P	Z	02:11:14.2	77.4	90.8	1.2	13	5.0
BFO	e P	Z	02:11:20.3	78.6	88.5	1.0	11	4.8
BUG	e P	Z	02:11:23.8	79.2	88.3	1.0	10	4.8
WLF	e P	Z	02:11:28.3	80.0	87.1	1.1	16	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:00:39.1	6.110N	94.270E	33.0N	5.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:12:40.4	79.2	93.6	1.1	103	5.8		
GEC2	e P	Z	02:12:40.8	79.2	93.1	1.0	108	5.8		
RUE	e P	Z	02:12:41.2	79.4	93.8	1.0	329	6.3		
WET	e P	Z	02:12:43.7	79.8	92.5	0.9	67	5.6		
CLL	e P	Z	02:12:43.3	79.8	93.0	1.0	73	5.6		
RGN	e P	Z	02:12:43.6	79.8	93.8	0.9	154	5.9		
MOX	e P	Z	02:12:48.2	80.6	91.8	1.1	85	5.7		
FUR	e P	Z	02:12:49.0	80.8	91.1	1.1	163	6.0		
GRA1	e P	Z	02:12:50.0	80.8	91.3	0.9	162	6.0		
CLZ	e P	Z	02:12:52.5	81.4	91.0	1.0	142	6.0		
BSEG	e P	Z	02:12:53.0	81.5	91.3	0.9	251	6.3		
NRDL	e P	Z	02:12:53.8	81.6	90.9	1.1	228	6.2		
UBBA	e P	Z	02:12:52.3	81.6	90.6	1.0	14	5.0		
STU	e P	Z	02:12:55.3	82.2	89.7	1.0	76	5.8		
BFO	e P	Z	02:12:59.2	82.7	88.9	0.9	79	5.9		
IBBN	e P	Z	02:13:01.0	83.0	89.0	0.9	213	6.4		
BUG	e P	Z	02:13:02.7	83.4	88.5	0.9	139	6.2		
WLF	e P	Z	02:13:07.3	84.1	87.5	1.1	123	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:13:32.8	3.799N	97.730E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:26:04.5	84.8	90.2	0.8	5	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:15:23.0	5.660N	93.140E	33.0N	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:27:23.0	78.8	94.2	1.0	44	5.4		
BRG	e P	Z	02:27:22.9	78.8	94.8	1.1	48	5.4		
RUE	e P	Z	02:27:24.0	79.0	95.0	1.0	98	5.8		
WET	e P	Z	02:27:25.7	79.4	93.7	1.1	42	5.4		
CLL	e P	Z	02:27:25.9	79.4	94.2	1.1	40	5.4		
MOX	e P	Z	02:27:30.9	80.3	93.0	1.1	35	5.2		
FUR	e P	Z	02:27:31.3	80.4	92.3	1.0	41	5.3		
GRA1	e P	Z	02:27:32.6	80.5	92.5	1.1	85	5.6		
CLZ	e P	Z	02:27:35.3	81.1	92.2	1.0	55	5.5		
BSEG	e P	Z	02:27:35.9	81.2	92.5	0.9	102	5.8		
NRDL	e P	Z	02:27:36.4	81.3	92.1	1.2	80	5.6		
STU	e P	Z	02:27:38.6	81.8	90.8					
BFO	e P	Z	02:27:41.5	82.3	90.1	1.0	20	5.2		
IBBN	e P	Z	02:27:43.8	82.7	90.2	0.9	68	5.9		
BUG	e P	Z	02:27:45.3	83.0	89.7	1.0	36	5.5		
WLF	e P	Z	02:27:49.4	83.7	88.6	1.1	28	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:22: 4.4	8.700N	92.280E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:33:48.4	75.9	93.5	0.9	32	5.5		
GEC2	e P	Z	02:33:48.7	76.0	92.8	0.9	44	5.6		
RUE	e P	Z	02:33:49.4	76.1	93.8	0.8	74	5.9		
WET	e P	Z	02:33:51.9	76.5	92.3	0.9	32	5.4		
CLL	e P	Z	02:33:51.5	76.5	92.9	1.0	25	5.3		
MOX	e P	Z	02:33:56.6	77.4	91.6	0.9	16	5.2		
FUR	e P	Z	02:33:57.2	77.5	90.8	0.9	36	5.5		
GRA1	e P	Z	02:33:58.5	77.6	91.1	0.9	50	5.6		
CLZ	e P	Z	02:34:01.1	78.2	90.9	0.8	30	5.5		
BSEG	e P	Z	02:34:01.7	78.3	91.3	0.9	46	5.6		
NRDL	e P	Z	02:34:02.1	78.3	90.9	1.2	58	5.6		
UBBA	e P	Z	02:34:02.0	78.4	90.4	0.7	6	4.8		
STU	e P	Z	02:34:05.0	78.9	89.4	0.8	21	5.2		
BFO	e P	Z	02:34:08.0	79.5	88.7	1.0	25	5.1		
IBBN	e P	Z	02:34:09.8	79.8	89.0	0.9	41	5.3		
BUG	e P	Z	02:34:11.4	80.1	88.4	0.9	24	5.1		
WLF	e P	Z	02:34:16.5	80.9	87.3	1.0	28	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:26:47.5	3.934N	94.345E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:38:58.4	80.9	94.5	0.8	10	4.9		
BRG	e P	Z	02:38:58.0	80.9	95.0	0.9	7	4.7		
RUE	e P	Z	02:38:59.0	81.1	95.1	0.8	17	5.1		
WET	e P	Z	02:39:01.1	81.4	93.9	0.8	5	4.6		
CLL	e P	Z	02:39:00.9	81.5	94.3	0.9	5	4.6		
MOX	e P	Z	02:39:05.7	82.4	93.1	0.8	4	4.5		
FUR	e P	Z	02:39:05.7	82.4	92.5	0.8	4	4.6		
GRA1	e P	Z	02:39:07.5	82.6	92.7	0.9	9	5.0		
CLZ	e P	Z	02:39:10.2	83.2	92.3	0.8	8	5.0		
BSEG	e P	Z	02:39:10.7	83.3	92.5	0.8	10	5.1		
NRDL	e P	Z	02:39:10.9	83.4	92.2	0.9	5	4.7		
STU	e P	Z	02:39:13.4	83.8	91.0	1.1	7	4.8		
BFO	e P	Z	02:39:16.2	84.4	90.4	0.7	3	4.6		
IBBN	e P	Z	02:39:18.6	84.8	90.3	0.8	9	5.1		
BUG	e P	Z	02:39:20.1	85.1	89.8	0.9	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:34:51.8	3.620N	94.060E	33.0G	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:47:03.1	80.9	94.9	0.9	60	5.6		
BRG	e P	Z	02:47:03.2	81.0	95.4	0.9	29	5.3		
RUE	e P	Z	02:47:04.5	81.2	95.5	0.9	64	5.7		
WET	e P	Z	02:47:06.1	81.5	94.3	1.0	32	5.4		
CLL	e P	Z	02:47:05.9	81.6	94.7	0.9	28	5.4		
MOX	e P	Z	02:47:10.8	82.4	93.6	0.8	16	5.2		
FUR	e P	Z	02:47:10.8	82.5	93.0	0.9	31	5.5		
GRA1	e P	Z	02:47:12.5	82.6	93.1	0.9	47	5.7		
CLZ	e P	Z	02:47:15.0	83.3	92.7	0.9	30	5.5		
BSEG	e P	Z	02:47:15.9	83.4	92.9	0.9	44	5.7		
UBBA	e P	Z	02:47:15.7	83.4	92.3	0.7	4	4.7		
NRDL	e P	Z	02:47:16.4	83.4	92.6	1.1	37	5.5		
STU	e P	Z	02:47:18.3	83.9	91.5	0.9	15	5.3		
BFO	e P	Z	02:47:21.0	84.5	90.8	0.9	17	5.3		
IBBN	e P	Z	02:47:23.5	84.9	90.7	0.9	36	5.6		
BUG	e P	Z	02:47:24.8	85.2	90.2	1.0	52	5.7		
WLF	e P	Z	02:47:29.1	85.9	89.2	1.0	25	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:36: 9.2	12.090N	92.920E	33.0N	5.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:47:40.7	73.7	90.8					
RUE	e P	Z	02:47:41.0	73.8	91.1					
CLL	e P	Z	02:47:43.5	74.3	90.2					
WET	e P	Z	02:47:44.6	74.4	89.5					
MOX	e P	Z	02:47:48.8	75.2	88.9					
GRA1	e P	Z	02:47:50.3	75.5	88.4	0.8	30	5.5		
FUR	e P	Z	02:47:50.7	75.5	88.0					
BSEG	e P	Z	02:47:53.7	75.9	88.7					
CLZ	e P	Z	02:47:53.3	75.9	88.2	1.1	119	5.9		
NRDL	e P	Z	02:47:54.2	76.1	88.2					
STU	e P	Z	02:47:58.9	76.8	86.6					
BFO	e P	Z	02:48:01.4	77.4	85.9	1.1	30	5.3		
IBBN	e P	Z	02:48:02.2	77.5	86.3					
BUG	e P	Z	02:48:04.2	77.9	85.7					
WLF	e P	Z	02:48:09.2	78.7	84.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:38: 7.6	7.721N	92.132E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:49:54.1	76.6	94.3					
GEC2	e P	Z	02:49:54.6	76.6	93.6					
RUE	e P	Z	02:49:55.5	76.8	94.5					
WET	e P	Z	02:49:57.5	77.1	93.0					
CLL	e P	Z	02:49:57.4	77.2	93.6					
MOX	e P	Z	02:50:02.5	78.0	92.4					
FUR	e P	Z	02:50:03.0	78.2	91.6					
GRA1	e P	Z	02:50:04.4	78.2	91.9	1.0	65	5.7		
CLZ	e P	Z	02:50:07.0	78.8	91.7	0.9	32	5.4		
BSEG	e P	Z	02:50:07.6	79.0	92.0					
NRDL	e P	Z	02:50:08.4	79.0	91.6					
STU	e P	Z	02:50:11.0	79.6	90.2					
BFO	e P	Z	02:50:13.9	80.1	89.5	0.9	25	5.1		
IBBN	e P	Z	02:50:15.6	80.5	89.7					
BUG	e P	Z	02:50:17.6	80.8	89.2					
WLF	e P	Z	02:50:22.0	81.5	88.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:45:10.8	7.450N	93.410E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

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	02:57:03.7	77.6	93.5					
GEC2	e P	Z	02:57:04.3	77.6	92.8					
RUE	e P	Z	02:57:05.1	77.8	93.7					
WET	e P	Z	02:57:07.3	78.2	92.3					
CLL	e P	Z	02:57:06.7	78.2	92.8					
MOX	e P	Z	02:57:11.8	79.0	91.6					
FUR	e P	Z	02:57:12.6	79.2	90.9					
GRA1	e P	Z	02:57:13.6	79.3	91.1	0.7	12	5.0		
CLZ	e P	Z	02:57:16.0	79.9	90.8	0.8	12	4.9		
BSEG	e P	Z	02:57:16.8	79.9	91.2					
UBBA	e P	Z	02:57:17.2	80.1	90.4					
BFO	e P	Z	02:57:23.4	81.2	88.7	0.9	8	4.8		
IBBN	e P	Z	02:57:25.3	81.5	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:52: 2.5	11.770N	91.970E	33.0N	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:03:32.1	73.4	91.7					
GEC2	e P	Z	03:03:32.8	73.5	90.9					
RUE	e P	Z	03:03:32.7	73.5	92.1					
CLL	e P	Z	03:03:35.1	74.0	91.1					
WET	e P	Z	03:03:36.0	74.0	90.4					
MOX	e P	Z	03:03:40.6	74.8	89.9					
FUR	e P	Z	03:03:41.8	75.1	88.9					
GRA1	e P	Z	03:03:42.6	75.1	89.3	1.0	56	5.6		
CLZ	e P	Z	03:03:45.1	75.6	89.2	0.9	62	5.7		
BSEG	e P	Z	03:03:45.3	75.6	89.7					
NRDL	e P	Z	03:03:46.2	75.7	89.2					
STU	e P	Z	03:03:49.5	76.4	87.5					
BFO	e P	Z	03:03:53.0	77.0	86.8	1.1	29	5.3		
IBBN	e P	Z	03:03:54.1	77.2	87.3					
BUG	e P	Z	03:03:56.0	77.5	86.7					
WLF	e P	Z	03:04:01.1	78.4	85.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	02:59:16.3	2.840N	93.640E	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	03:11:28.9	81.2	95.7	0.9	51	5.6		
BRG	e P	Z	03:11:29.1	81.3	96.2	0.9	22	5.2		
RUE	e P	Z	03:11:30.1	81.6	96.3	0.9	52	5.7		
WET	e P	Z	03:11:31.8	81.8	95.2	1.0	28	5.3		

CLL	e P	Z	03:11:32.1	81.9	95.6	0.8	11	5.1
MOX	e P	Z	03:11:36.8	82.8	94.4	0.9	15	5.2
GRA1	e P	Z	03:11:37.8	82.9	94.0	1.0	42	5.6
CLZ	e P	Z	03:11:40.9	83.6	93.5	0.9	25	5.4
BSEG	e P	Z	03:11:41.6	83.8	93.7	0.9	26	5.4
UBBA	e P	Z	03:11:41.7	83.8	93.1	0.9	4	4.7
NRDL	e P	Z	03:11:42.0	83.8	93.4	1.3	62	5.7
STU	e P	Z	03:11:43.3	84.2	92.3	0.9	13	5.2
BFO	e P	Z	03:11:46.0	84.8	91.6	0.8	12	5.2
IBBN	e P	Z	03:11:49.2	85.2	91.5	1.0	42	5.6
BUG	e P	Z	03:11:50.5	85.5	91.1	0.9	26	5.3
WLF	e P	Z	03:11:55.2	86.2	90.1	1.1	26	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:02:40.9	8.700N	92.140E	33.0N	5.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:14:23.5	75.8	93.6					
GEC2	e P	Z	03:14:23.6	75.9	92.9					
RUE	e P	Z	03:14:24.3	76.0	93.9					
WET	e P	Z	03:14:27.0	76.4	92.4					
CLL	e P	Z	03:14:26.3	76.4	93.0					
WERD	e P	Z	03:14:29.2	76.8	92.2					
MOX	e P	Z	03:14:31.7	77.3	91.8					
FUR	e P	Z	03:14:32.2	77.4	90.9					
GRA1	e P	Z	03:14:33.6	77.5	91.2	1.2	139	6.0		
CLZ	e P	Z	03:14:36.2	78.1	91.0	1.0	54	5.6		
BSEG	e P	Z	03:14:36.5	78.2	91.4					
UBBA	e P	Z	03:14:36.7	78.3	90.5					
STU	e P	Z	03:14:40.0	78.8	89.5					
BFO	e P	Z	03:14:43.2	79.4	88.8	1.0	32	5.3		
IBBN	e P	Z	03:14:45.2	79.7	89.1					
BUG	e P	Z	03:14:46.8	80.0	88.5					
WLF	e P	Z	03:14:51.2	80.8	87.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:08:41.3	12.850N	92.880E	33.0N	6.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:20:09.2	73.1	90.3	1.0	211	6.2		
RUE	e P	Z	03:20:09.4	73.2	90.6	1.0	489	6.6		
GEC2	e P	Z	03:20:10.2	73.3	89.5	1.0	260	6.3		
RGN	e P	Z	03:20:11.8	73.5	90.9	1.3	316	6.2		

CLL	e P	Z	03:20:12.2	73.7	89.7	1.2	193	6.0
WET	e P	Z	03:20:13.3	73.8	89.0	1.1	219	6.1
WERD	e P	Z	03:20:15.2	74.1	88.9	1.0	180	6.0
MOX	e P	Z	03:20:17.7	74.6	88.4	1.0	150	6.0
GRA1	e P	Z	03:20:20.0	74.9	87.9	1.1	292	6.2
FUR	e P	Z	03:20:19.3	74.9	87.5	1.0	190	6.1
BSEG	e P	Z	03:20:21.7	75.3	88.3	1.0	344	6.3
CLZ	e P	Z	03:20:22.1	75.3	87.8	1.1	262	6.2
NRDL	e P	Z	03:20:23.0	75.5	87.7	1.4	404	6.4
UBBA	e P	Z	03:20:23.1	75.6	87.2	1.6	134	5.8
STU	e P	Z	03:20:26.9	76.2	86.1	1.2	107	5.9
BFO	e P	Z	03:20:30.4	76.8	85.4	1.3	102	5.8
IBBN	e P	Z	03:20:31.0	76.9	85.9	1.2	436	6.4
BUG	e P	Z	03:20:33.1	77.3	85.3	1.1	274	6.3
WLF	e P	Z	03:20:38.3	78.1	84.0	1.9	363	6.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:24:56.5	4.200N	93.560E	33.0N	5.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:37:04.2	80.2	94.9	1.1	195	6.0		
BRG	e P	Z	03:37:04.0	80.2	95.4	1.1	104	5.7		
RUE	e P	Z	03:37:05.2	80.5	95.6	1.0	230	6.1		
WET	e P	Z	03:37:07.1	80.7	94.3	1.3	124	5.8		
CLL	e P	Z	03:37:07.1	80.8	94.8	1.0	81	5.7		
RGN	e P	Z	03:37:08.4	80.9	95.5	1.0	167	6.0		
WERD	e P	Z	03:37:09.2	81.2	94.1	1.1	61	5.5		
MOX	e P	Z	03:37:11.5	81.6	93.6	2.0	237	6.0		
FUR	e P	Z	03:37:11.9	81.7	92.9	1.2	138	6.0		
GRA1	e P	Z	03:37:13.3	81.8	93.1	1.0	164	6.1		
CLZ	e P	Z	03:37:16.0	82.5	92.8	0.9	106	6.1		
BSEG	e P	Z	03:37:16.8	82.6	93.0	1.0	154	6.2		
UBBA	e P	Z	03:37:17.3	82.7	92.3	1.9	93	5.7		
NRDL	e P	Z	03:37:17.3	82.7	92.6	1.4	174	6.1		
STU	e P	Z	03:37:19.5	83.1	91.5	0.9	42	5.7		
BFO	e P	Z	03:37:22.0	83.7	90.8	1.0	70	5.8		
IBBN	e P	Z	03:37:24.5	84.1	90.7	1.1	152	6.1		
BUG	e P	Z	03:37:25.8	84.4	90.3	1.0	138	6.1		
WLF	e P	Z	03:37:30.4	85.1	89.3	1.2	96	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:40:15.0	5.190N	94.280E	33.0N	5.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:52:20.8	79.9	94.2					
GEC2	e P	Z	03:52:21.3	79.9	93.7					
RUE	e P	Z	03:52:21.9	80.1	94.4					
WET	e P	Z	03:52:24.1	80.5	93.1					
CLL	e P	Z	03:52:23.6	80.5	93.6					
RGN	e P	Z	03:52:24.4	80.5	94.4					
MOX	e P	Z	03:52:28.5	81.3	92.4					
FUR	e P	Z	03:52:29.1	81.5	91.7					
GRA1	e P	Z	03:52:30.3	81.6	91.9	0.9	99	5.9		
CLZ	e P	Z	03:52:33.0	82.2	91.6	0.8	67	5.8		
BSEG	e P	Z	03:52:33.5	82.3	91.8					
NRDL	e P	Z	03:52:33.9	82.3	91.5					
UBBA	e P	Z	03:52:33.6	82.4	91.1					
STU	e P	Z	03:52:36.4	82.9	90.3					
BFO	e P	Z	03:52:39.2	83.4	89.6	0.8	38	5.7		
IBBN	e P	Z	03:52:41.3	83.8	89.6					
BUG	e P	Z	03:52:42.9	84.1	89.1					
WLF	e P	Z	03:52:47.2	84.8	88.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:46:40.3	6.181N	92.943E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:58:36.5	78.3	94.6					
GEC2	e P	Z	03:58:36.8	78.3	94.0					
RUE	e P	Z	03:58:37.3	78.5	94.8					
WET	e P	Z	03:58:39.9	78.8	93.5					
CLL	e P	Z	03:58:39.6	78.9	94.0					
MOX	e P	Z	03:58:44.4	79.7	92.8					
FUR	e P	Z	03:58:44.8	79.8	92.1					
GRA1	e P	Z	03:58:46.5	79.9	92.3	0.9	17	5.0		
CLZ	e P	Z	03:58:48.9	80.6	92.0	0.9	13	5.0		
BSEG	e P	Z	03:58:49.4	80.7	92.3					
NRDL	e P	Z	03:58:50.4	80.7	91.9					
STU	e P	Z	03:58:52.4	81.2	90.6					
BFO	e P	Z	03:58:55.2	81.8	89.9	0.9	6	4.7		
IBBN	e P	Z	03:58:57.7	82.2	90.0					
BUG	e P	Z	03:58:59.3	82.5	89.5					
WLF	e P	Z	03:59:03.7	83.2	88.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:50:15.5	4.450N	94.430E	33.0N	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:02:24.6	80.6	94.6					
GEC2	e P	Z	04:02:24.9	80.6	94.1	0.9	44	5.5		
RUE	e P	Z	04:02:25.7	80.8	94.7					
WET	e P	Z	04:02:27.7	81.1	93.5					
CLL	e P	Z	04:02:27.4	81.2	93.9					
WERD	e P	Z	04:02:29.8	81.6	93.2					
MOX	e P	Z	04:02:32.3	82.0	92.7					
FUR	e P	Z	04:02:32.9	82.1	92.1					
GRA1	e P	Z	04:02:34.1	82.2	92.3					
CLZ	e P	Z	04:02:36.8	82.8	91.9	0.8	28	5.5		
BSEG	e P	Z	04:02:37.5	82.9	92.1					
STU	e P	Z	04:02:39.9	83.5	90.6					
BFO	e P	Z	04:02:42.9	84.1	89.9	0.8	21	5.4		
IBBN	e P	Z	04:02:45.1	84.4	89.9					
BUG	e P	Z	04:02:46.8	84.8	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	03:51: 9.0	4.290N	94.970E	33.0N	5.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:03:20.9	81.0	94.3					
GEC2	e P	Z	04:03:21.2	81.0	93.8					
RUE	e P	Z	04:03:21.9	81.2	94.4					
WET	e P	Z	04:03:24.1	81.6	93.2					
CLL	e P	Z	04:03:23.7	81.6	93.6					
WERD	e P	Z	04:03:26.2	82.0	92.9					
MOX	e P	Z	04:03:28.5	82.5	92.4					
FUR	e P	Z	04:03:29.0	82.6	91.8					
GRA1	e P	Z	04:03:30.2	82.7	92.0	1.0	105	6.0		
CLZ	e P	Z	04:03:32.7	83.3	91.6	1.1	75	5.8		
BSEG	e P	Z	04:03:33.4	83.4	91.8					
NRDL	e P	Z	04:03:33.8	83.5	91.5					
STU	e P	Z	04:03:36.3	84.0	90.3					
BFO	e P	Z	04:03:39.0	84.6	89.7	0.9	58	5.8		
IBBN	e P	Z	04:03:41.1	84.9	89.6					
BUG	e P	Z	04:03:42.6	85.2	89.1					
WLF	e P	Z	04:03:46.6	86.0	88.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:00:37.9	3.354N	94.448E	33.0N	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:12:51.6	81.4	94.8					
BRG	e P	Z	04:12:51.5	81.4	95.3					
RUE	e P	Z	04:12:52.5	81.7	95.4					
WET	e P	Z	04:12:54.5	82.0	94.2					
CLL	e P	Z	04:12:54.3	82.0	94.6					
MOX	e P	Z	04:12:58.9	82.9	93.4					
FUR	e P	Z	04:12:59.5	82.9	92.9					
GRA1	e P	Z	04:13:00.5	83.1	93.0	0.9	34	5.6		
CLZ	e P	Z	04:13:03.4	83.7	92.6	0.8	18	5.3		
BSEG	e P	Z	04:13:04.1	83.8	92.8					
NRDL	e P	Z	04:13:04.7	83.9	92.4					
STU	e P	Z	04:13:06.6	84.4	91.4					
BFO	e P	Z	04:13:09.4	84.9	90.7	0.8	14	5.2		
IBBN	e P	Z	04:13:11.9	85.3	90.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:02:52.4	4.760N	94.740E	33.0N	5.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:15:02.6	80.5	94.1	1.0	98	5.8		
GEC2	e P	Z	04:15:02.8	80.5	93.6	1.0	256	6.2		
RUE	e P	Z	04:15:03.6	80.7	94.3	0.7	222	6.3		
WET	e P	Z	04:15:05.7	81.1	93.0	1.1	146	5.9		
CLL	e P	Z	04:15:05.4	81.1	93.5	1.1	92	5.7		
WERD	e P	Z	04:15:07.4	81.5	92.8	1.1	74	5.7		
MOX	e P	Z	04:15:10.1	82.0	92.3	1.3	96	5.8		
FUR	e P	Z	04:15:10.6	82.1	91.7	0.9	99	5.9		
GRA1	e P	Z	04:15:11.8	82.2	91.9	1.2	234	6.2		
CLZ	e P	Z	04:15:14.5	82.8	91.5	1.2	168	6.1		
BSEG	e P	Z	04:15:15.0	82.9	91.7	1.1	197	6.2		
NRDL	e P	Z	04:15:15.4	83.0	91.4					
UBBA	e P	Z	04:15:15.1	83.0	91.1	2.0	100	5.7		
STU	e P	Z	04:15:18.0	83.5	90.2					
BFO	e P	Z	04:15:20.8	84.1	89.5					
IBBN	e P	Z	04:15:22.9	84.4	89.5					
BUG	e P	Z	04:15:24.3	84.7	89.0					
WLF	e P	Z	04:15:28.7	85.5	88.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:02:50.9	4.480N	95.000E	33.0N	6.1			SZGRF

Northern Sumatera, Indonesia

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

BRG	e P	Z	04:15:02.4	80.9	94.1				
GEC2	e P	Z	04:15:02.9	80.9	93.6				
RUE	e P	Z	04:15:03.5	81.1	94.2				
WET	e P	Z	04:15:05.6	81.5	93.0				
CLL	e P	Z	04:15:05.1	81.5	93.4				
MOX	e P	Z	04:15:09.9	82.3	92.3				
FUR	e P	Z	04:15:10.6	82.5	91.7				
GRA1	e P	Z	04:15:11.8	82.6	91.8	1.2	234	6.3	
CLZ	e P	Z	04:15:14.3	83.2	91.5	1.2	168	6.1	
BSEG	e P	Z	04:15:14.9	83.3	91.7				
NRDL	e P	Z	04:15:15.3	83.3	91.3				
UBBA	e P	Z	04:15:15.0	83.4	91.0				
STU	e P	Z	04:15:17.8	83.9	90.2				
BFO	e P	Z	04:15:20.4	84.4	89.5	1.1	82	5.9	
IBBN	e P	Z	04:15:22.7	84.8	89.4				
BUG	e P	Z	04:15:24.2	85.1	89.0				
WLF	e P	Z	04:15:28.3	85.8	88.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:10:12.1	6.090N	93.550E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:22:12.1	78.7	94.2					
GEC2	e P	Z	04:22:12.4	78.7	93.6					
RUE	e P	Z	04:22:13.0	78.9	94.4					
WET	e P	Z	04:22:15.1	79.3	93.1					
CLL	e P	Z	04:22:14.9	79.3	93.6					
WERD	e P	Z	04:22:17.6	79.7	92.9					
MOX	e P	Z	04:22:19.9	80.2	92.4					
FUR	e P	Z	04:22:20.2	80.3	91.7					
GRA1	e P	Z	04:22:22.0	80.4	91.9	1.1	87	5.6		
CLZ	e P	Z	04:22:24.5	81.0	91.6	1.2	65	5.5		
BSEG	e P	Z	04:22:24.8	81.1	91.9					
BFO	e P	Z	04:22:30.3	82.3	89.5	1.2	24	5.2		
IBBN	e P	Z	04:22:32.7	82.6	89.6					
BUG	e P	Z	04:22:34.5	82.9	89.1					
WLF	e P	Z	04:22:38.9	83.7	88.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:18: 6.5	9.310N	91.850E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:29:45.5	75.2	93.5					

GEC2	e P	Z	04:29:45.7	75.2	92.7			
RUE	e P	Z	04:29:46.3	75.4	93.7			
WET	e P	Z	04:29:48.0	75.8	92.2			
CLL	e P	Z	04:29:48.5	75.8	92.8			
MOX	e P	Z	04:29:53.6	76.6	91.6			
FUR	e P	Z	04:29:54.1	76.8	90.7			
GRA1	e P	Z	04:29:55.7	76.9	91.1	0.8	17	5.2
CLZ	e P	Z	04:29:57.8	77.4	90.9	0.7	21	5.4
BSEG	e P	Z	04:29:58.4	77.5	91.3			
NRDL	e P	Z	04:29:59.7	77.6	90.8			
STU	e P	Z	04:30:02.4	78.2	89.3			
BFO	e P	Z	04:30:05.4	78.8	88.6	0.9	7	4.7
IBBN	e P	Z	04:30:06.7	79.0	88.9			
BUG	e P	Z	04:30:08.8	79.4	88.4			
WLF	e P	Z	04:30:13.3	80.1	87.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:21:27.1	6.300N	92.650E	33.0N	6.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:33:22.8	78.0	94.2	1.4	400	6.4		
BRG	e P	Z	04:33:22.5	78.0	94.8	1.9	520	6.3		
RUE	e P	Z	04:33:23.7	78.2	95.0	2.5	2640	6.9		
WET	e P	Z	04:33:26.0	78.6	93.6	1.9	726	6.4		
CLL	e P	Z	04:33:25.4	78.6	94.1	1.8	433	6.2		
RGN	e P	Z	04:33:27.0	78.7	95.0	7.3	49674	7.6		
WERD	e P	Z	04:33:28.1	79.0	93.4	1.8	398	6.1		
MOX	e P	Z	04:33:30.5	79.5	92.9	1.7	473	6.2		
FUR	e P	Z	04:33:31.1	79.6	92.2	1.8	930	6.4		
GRA1	e P	Z	04:33:31.8	79.7	92.4	1.9	1090	6.5		
CLZ	e P	Z	04:33:34.9	80.3	92.2	1.8	544	6.2		
BSEG	e P	Z	04:33:35.4	80.4	92.5	1.5	516	6.2		
NRDL	e P	Z	04:33:36.2	80.5	92.1	1.8	806	6.4		
UBBA	e P	Z	04:33:35.7	80.5	91.7	2.2	542	6.2		
STU	e P	Z	04:33:38.5	81.0	90.7	1.7	449	6.2		
BFO	e P	Z	04:33:41.4	81.5	90.0	1.5	228	6.1		
IBBN	e P	Z	04:33:43.6	81.9	90.2	1.6	621	6.5		
BUG	e P	Z	04:33:45.4	82.2	89.7	1.6	383	6.3		
WLF	e P	Z	04:33:49.8	82.9	88.6	1.8	644	6.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:26: 2.5	7.432N	94.213E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:37:58.4	78.1	92.8	0.9	13	5.1		
GEC2	e P	Z	04:37:58.9	78.2	92.2	0.8	18	5.2		
CLL	e P	Z	04:38:01.5	78.7	92.2	0.9	14	5.0		
WET	e P	Z	04:38:01.8	78.7	91.7	0.8	10	4.9		
MOX	e P	Z	04:38:06.0	79.6	91.0					
GRA1	e P	Z	04:38:07.9	79.8	90.5	0.9	16	5.0		
CLZ	e P	Z	04:38:10.4	80.4	90.2	0.8	14	4.9		
BSEG	e P	Z	04:38:11.0	80.4	90.5	0.9	39	5.3		
IBBN	e P	Z	04:38:19.4	82.0	88.2	1.0	28	5.3		
BUG	e P	Z	04:38:21.0	82.3	87.7	1.2	40	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:31:23.1	5.815N	93.518E	33.0N	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:43:22.9	78.9	94.4					
GEC2	e P	Z	04:43:23.4	78.9	93.8	0.8	13	5.0		
WET	e P	Z	04:43:26.4	79.5	93.3					
MOX	e P	Z	04:43:31.0	80.4	92.6					
FUR	e P	Z	04:43:31.6	80.5	91.9					
GRA1	e P	Z	04:43:32.8	80.6	92.1	0.8	14	5.1		
CLZ	e P	Z	04:43:35.5	81.2	91.8	1.1	17	5.0		
BSEG	e P	Z	04:43:35.8	81.3	92.1					
STU	e P	Z	04:43:39.3	81.9	90.4					
BFO	e P	Z	04:43:41.9	82.5	89.7	1.0	9	4.8		
IBBN	e P	Z	04:43:44.2	82.8	89.8					
BUG	e P	Z	04:43:45.8	83.1	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:40:10.4	8.340N	93.150E	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	04:51:58.6	76.7	93.1					
GEC2	e P	Z	04:51:59.3	76.8	92.4	1.0	17	5.1		
WET	e P	Z	04:52:02.1	77.3	91.9					
CLL	e P	Z	04:52:01.6	77.3	92.4					
MOX	e P	Z	04:52:06.7	78.2	91.2					
FUR	e P	Z	04:52:07.8	78.4	90.4					
GRA1	e P	Z	04:52:08.8	78.4	90.7	1.0	21	5.2		
CLZ	e P	Z	04:52:11.3	79.0	90.5	2.2	128	5.6		
BSEG	e P	Z	04:52:11.5	79.1	90.8					
STU	e P	Z	04:52:15.3	79.8	89.0					

BFO	e P	Z	04:52:18.2	80.3	88.3	1.3	25	5.0	
IBBN	e P	Z	04:52:20.0	80.6	88.5				
BUG	e P	Z	04:52:21.9	80.9	88.0				
WLF	e P	Z	04:52:26.1	81.7	86.8				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:46:30.0	9.230N	92.960E	35.2				SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:58:13.6	75.9	92.6					
GEC2	e P	Z	04:58:14.0	76.0	91.9	1.1	37			
CLL	e P	Z	04:58:16.7	76.5	92.0					
WET	e P	Z	04:58:17.1	76.6	91.4					
MOX	e P	Z	04:58:21.5	77.4	90.8					
FUR	e P	Z	04:58:22.2	77.6	90.0					
GRA1	e P	Z	04:58:24.0	77.6	90.3	1.2	51			
	e pP	Z	04:58:34.1							
CLZ	e P	Z	04:58:25.9	78.2	90.1	1.0	30			
BSEG	e P	Z	04:58:26.2	78.2	90.5					
STU	e P	Z	04:58:30.6	79.0	88.5					
BFO	e P	Z	04:58:33.6	79.6	87.8	1.3	30			
IBBN	e P	Z	04:58:35.0	79.8	88.1					
BUG	e P	Z	04:58:36.8	80.1	87.6					
WLF	e P	Z	04:58:41.1	80.9	86.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	04:49: 1.8	9.320N	92.980E	33.3	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:00:45.4	75.9	92.6					
GEC2	e P	Z	05:00:46.2	76.0	91.9	1.3	32	5.3		
CLL	e P	Z	05:00:48.6	76.5	91.9					
WET	e P	Z	05:00:49.3	76.5	91.3					
FUR	e P	Z	05:00:54.8	77.5	89.9					
GRA1	e P	Z	05:00:54.8	77.6	90.2	1.3	53	5.5		
	e pP	Z	05:01:04.3							
CLZ	e P	Z	05:00:58.0	78.1	90.0	1.5	57	5.5		
BSEG	e P	Z	05:00:58.5	78.2	90.4					
BFO	e P	Z	05:01:05.7	79.5	87.7	1.2	18	4.9		
IBBN	e P	Z	05:01:06.9	79.7	88.0					
BUG	e P	Z	05:01:08.8	80.1	87.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:08: 4.4	8.764N	92.528E	36.0	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:19:48.4	76.0	93.3					
GEC2	e P	Z	05:19:48.6	76.1	92.6	0.9	11	5.0		
WET	e P	Z	05:19:51.8	76.6	92.0					
CLL	e P	Z	05:19:51.4	76.6	92.7					
MOX	e P	Z	05:19:56.6	77.5	91.4					
FUR	e P	Z	05:19:57.4	77.7	90.6					
GRA1	e P	Z	05:19:58.3	77.7	90.9	0.9	14	5.1		
	e pP	Z	05:20:08.7							
CLZ	e P	Z	05:20:01.0	78.3	90.7	0.8	11	5.0		
BSEG	e P	Z	05:20:01.2	78.3	91.1					
STU	e P	Z	05:20:05.1	79.0	89.2					
BFO	e P	Z	05:20:08.3	79.6	88.4	0.9	6	4.5		
IBBN	e P	Z	05:20:09.9	79.9	88.7					
BUG	e P	Z	05:20:11.7	80.2	88.2					
WLF	e P	Z	05:20:16.2	81.0	87.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:09:32.0	8.620N	93.530E	30.0	5.0			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:21:21.1	76.8	92.6					
GEC2	e P	Z	05:21:21.8	76.8	91.9	0.8	17	5.2		
CLL	e P	Z	05:21:24.0	77.4	92.0					
WET	e P	Z	05:21:24.9	77.4	91.4					
MOX	e P	Z	05:21:29.4	78.2	90.7					
FUR	e P	Z	05:21:30.2	78.4	90.0					
GRA1	e P	Z	05:21:30.9	78.5	90.2					
	e pP	Z	05:21:39.5			0.8	18			
CLZ	e P	Z	05:21:33.4	79.0	90.0	0.7	18	5.2		
BSEG	e P	Z	05:21:33.9	79.1	90.4					
STU	e P	Z	05:21:37.7	79.8	88.5					
BFO	e P	Z	05:21:41.0	80.4	87.8	0.9	7	4.6		
IBBN	e P	Z	05:21:42.3	80.6	88.0					
BUG	e P	Z	05:21:44.4	80.9	87.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:16:20.2	10.600N	92.750E	26.6	5.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:28:00.2	74.7	91.9					
GEC2	e P	Z	05:28:00.7	74.8	91.2	0.9	50	5.6		
CLL	e P	Z	05:28:03.2	75.3	91.3					
WET	e P	Z	05:28:03.9	75.4	90.6					
MOX	e P	Z	05:28:08.5	76.2	90.0					
FUR	e P	Z	05:28:09.4	76.5	89.2					
GRA1	e P	Z	05:28:10.1	76.5	89.5	1.0	40	5.5		
	e pP	Z	05:28:17.7							
CLZ	e P	Z	05:28:12.7	77.0	89.3	1.1	62	5.7		
BSEG	e P	Z	05:28:13.0	77.0	89.8					
STU	e P	Z	05:28:17.2	77.8	87.8					
BFO	e P	Z	05:28:20.4	78.4	87.0	1.7	74	5.5		
IBBN	e P	Z	05:28:21.3	78.6	87.4					
BUG	e P	Z	05:28:23.5	78.9	86.8					
WLF	e P	Z	05:28:28.9	79.7	85.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:32: 8.6	7.370N	94.030E	30.1	4.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:44:04.6	78.0	93.0					
GEC2	e P	Z	05:44:05.2	78.1	92.4	0.8	4	4.7		
CLL	e P	Z	05:44:07.5	78.6	92.4					
WET	e P	Z	05:44:08.1	78.6	91.8					
MOX	e P	Z	05:44:12.4	79.5	91.2					
GRA1	e P	Z	05:44:13.8	79.7	90.7	0.9	4	4.4		
	e pP	Z	05:44:22.5							
CLZ	e P	Z	05:44:16.9	80.3	90.4	0.8	5	4.5		
BSEG	e P	Z	05:44:17.2	80.4	90.7					
BFO	e P	Z	05:44:23.8	81.6	88.3	1.0	4	4.5		
IBBN	e P	Z	05:44:25.6	81.9	88.4					
BUG	e P	Z	05:44:27.3	82.2	87.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:42:45.0	4.600N	94.640E	33.0N	5.2			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:54:54.5	80.6	94.3					
GEC2	e P	Z	05:54:54.9	80.6	93.8	0.9	26	5.2		
WET	e P	Z	05:54:57.8	81.1	93.2					
CLL	e P	Z	05:54:57.3	81.2	93.7					

MOX	e P	Z	05:55:02.2	82.0	92.5				
FUR	e P	Z	05:55:02.7	82.2	91.9				
GRA1	e P	Z	05:55:03.9	82.2	92.0	1.2	43	5.4	
CLZ	e P	Z	05:55:06.6	82.8	91.7	0.9	16	5.2	
BSEG	e P	Z	05:55:07.1	82.9	91.9				
STU	e P	Z	05:55:10.0	83.5	90.4				
BFO	e P	Z	05:55:12.9	84.1	89.7	0.9	10	5.0	
IBBN	e P	Z	05:55:15.0	84.5	89.6				
BUG	e P	Z	05:55:16.5	84.8	89.2				
WLF	e P	Z	05:55:20.3	85.5	88.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:51:41.6	7.170N	93.800E	31.2	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:03:38.2	78.0	93.3					
GEC2	e P	Z	06:03:38.7	78.1	92.7	1.3	67	5.6		
WET	e P	Z	06:03:41.4	78.6	92.1					
CLL	e P	Z	06:03:41.2	78.7	92.7					
MOX	e P	Z	06:03:46.2	79.5	91.5					
FUR	e P	Z	06:03:47.3	79.7	90.8					
GRA1	e P	Z	06:03:48.0	79.7	91.0	1.0	24	5.1		
	e pP	Z	06:03:57.0			1.2	46			
CLZ	e P	Z	06:03:50.6	80.3	90.7	1.5	76	5.4		
BSEG	e P	Z	06:03:51.0	80.4	91.0					
STU	e P	Z	06:03:54.7	81.1	89.3					
BFO	e P	Z	06:03:57.2	81.6	88.6					
IBBN	e P	Z	06:03:59.2	81.9	88.7					
BUG	e P	Z	06:04:01.0	82.2	88.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	05:55:48.3	2.420N	94.020E	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	06:08:04.2	81.8	95.7	0.8	16	5.2		
BRG	e P	Z	06:08:04.3	81.9	96.2					
WET	e P	Z	06:08:07.0	82.4	95.1					
CLL	e P	Z	06:08:07.1	82.5	95.5					
MOX	e P	Z	06:08:12.0	83.3	94.4					
FUR	e P	Z	06:08:11.7	83.4	93.8					
GRA1	e P	Z	06:08:13.7	83.5	93.9	0.8	12	5.2		
CLZ	e P	Z	06:08:16.1	84.2	93.5	0.9	7	4.9		
BSEG	e P	Z	06:08:16.9	84.3	93.7					

BFO	e P	Z	06:08:21.6	85.3	91.6	0.8	4	4.7	
IBBN	e P	Z	06:08:24.6	85.8	91.5				
BUG	e P	Z	06:08:26.0	86.1	91.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:02:32.2	8.180N	93.180E	33.0N	5.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:14:21.4	76.9	93.2	1.6	157	5.9		
GEC2	e P	Z	06:14:21.8	76.9	92.5	1.4	123	5.8		
WET	e P	Z	06:14:24.6	77.5	91.9	1.4	77	5.7		
CLL	e P	Z	06:14:24.0	77.5	92.5	1.4	80	5.6		
MOX	e P	Z	06:14:29.4	78.3	91.3	1.2	48	5.5		
FUR	e P	Z	06:14:30.4	78.5	90.5	1.5	153	5.8		
GRA1	e P	Z	06:14:31.3	78.6	90.8	1.7	215	5.9		
CLZ	e P	Z	06:14:33.8	79.1	90.6	1.4	104	5.7		
BSEG	e P	Z	06:14:34.2	79.2	90.9	1.1	139	5.9		
STU	e P	Z	06:14:37.7	79.9	89.1	1.4	87	5.5		
BFO	e P	Z	06:14:40.9	80.5	88.4	1.3	49	5.4		
IBBN	e P	Z	06:14:42.6	80.7	88.6	1.3	159	5.9		
BUG	e P	Z	06:14:44.2	81.1	88.1	1.4	104	5.7		
WLF	e P	Z	06:14:48.9	81.9	86.9	1.5	143	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:09:27.2	5.610N	93.480E	33.0N	4.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:21:28.6	79.1	94.6					
GEC2	e P	Z	06:21:28.8	79.1	94.0	0.9	8	4.8		
WET	e P	Z	06:21:32.0	79.6	93.4					
CLL	e P	Z	06:21:31.4	79.7	93.9					
MOX	e P	Z	06:21:36.4	80.5	92.7					
FUR	e P	Z	06:21:36.8	80.6	92.1					
GRA1	e P	Z	06:21:37.8	80.7	92.3	0.9	7	4.7		
CLZ	e P	Z	06:21:40.5	81.3	91.9	0.8	4	4.5		
BSEG	e P	Z	06:21:41.4	81.4	92.2					
STU	e P	Z	06:21:44.4	82.0	90.6					
BFO	e P	Z	06:21:47.1	82.6	89.9	0.8	3	4.5		
IBBN	e P	Z	06:21:49.6	83.0	89.9					
BUG	e P	Z	06:21:51.0	83.3	89.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:11: 4.3	8.590N	93.350E	26.9	5.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:22:53.3	76.7	92.8					
GEC2	e P	Z	06:22:53.5	76.7	92.1	1.2	26	5.2		
CLL	e P	Z	06:22:56.1	77.3	92.1					
WET	e P	Z	06:22:56.7	77.3	91.5					
MOX	e P	Z	06:23:00.9	78.1	90.9					
FUR	e P	Z	06:23:02.4	78.3	90.1					
GRA1	e P	Z	06:23:03.1	78.4	90.4	1.6	78	5.6		
	e pP	Z	06:23:10.8							
CLZ	e P	Z	06:23:05.6	78.9	90.2	1.2	32	5.2		
BSEG	e P	Z	06:23:06.1	79.0	90.5					
STU	e P	Z	06:23:09.9	79.7	88.7					
BFO	e P	Z	06:23:13.0	80.3	88.0	1.4	29	5.0		
IBBN	e P	Z	06:23:14.3	80.5	88.2					
BUG	e P	Z	06:23:16.4	80.9	87.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:22: 3.4	10.670N	91.550E	29.8	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:33:36.6	73.9	92.8					
GEC2	e P	Z	06:33:37.4	74.0	92.0	0.9	26	5.3		
CLL	e P	Z	06:33:39.7	74.5	92.2					
WET	e P	Z	06:33:40.4	74.6	91.5					
MOX	e P	Z	06:33:45.1	75.4	90.9					
FUR	e P	Z	06:33:46.0	75.6	90.0					
GRA1	e P	Z	06:33:46.9	75.6	90.4	1.0	35	5.5		
	e pP	Z	06:33:55.5							
CLZ	e P	Z	06:33:49.4	76.2	90.2	0.8	17	5.2		
BSEG	e P	Z	06:33:50.0	76.2	90.7					
STU	e P	Z	06:33:53.8	77.0	88.6					
BFO	e P	Z	06:33:56.8	77.6	87.9	1.0	22	5.2		
IBBN	e P	Z	06:33:58.5	77.8	88.3					
BUG	e P	Z	06:34:00.5	78.1	87.7					
WLF	e P	Z	06:34:05.4	78.9	86.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:28:51.2	5.520N	94.820E	33.0N	5.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:40:57.5	80.0	93.6					
GEC2	e P	Z	06:40:57.7	80.0	93.1	1.0	72	5.6		
WET	e P	Z	06:41:00.8	80.6	92.5					
CLL	e P	Z	06:41:00.4	80.6	92.9					
MOX	e P	Z	06:41:05.0	81.4	91.7					
FUR	e P	Z	06:41:05.8	81.6	91.1					
GRA1	e P	Z	06:41:06.7	81.7	91.3	0.9	43	5.6		
CLZ	e P	Z	06:41:09.4	82.2	90.9	0.9	30	5.4		
BSEG	e P	Z	06:41:09.9	82.3	91.2					
BFO	e P	Z	06:41:15.8	83.5	88.9	0.9	15	5.2		
IBBN	e P	Z	06:41:17.5	83.8	88.9					
BUG	e P	Z	06:41:19.5	84.2	88.5					
WLF	e P	Z	06:41:23.7	84.9	87.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:38:37.7	6.550N	92.960E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:50:33.5	78.0	94.4					
GEC2	e P	Z	06:50:33.7	78.0	93.8	2.0	132	5.7		
WET	e P	Z	06:50:36.7	78.6	93.2					
CLL	e P	Z	06:50:36.4	78.6	93.7					
MOX	e P	Z	06:50:41.3	79.5	92.5					
FUR	e P	Z	06:50:41.8	79.6	91.8					
GRA1	e P	Z	06:50:43.1	79.7	92.0	1.0	44	5.4		
CLZ	e P	Z	06:50:45.8	80.3	91.8	0.9	20	5.0		
BSEG	e P	Z	06:50:46.4	80.4	92.1					
STU	e P	Z	06:50:49.3	81.0	90.3					
BFO	e P	Z	06:50:52.2	81.5	89.6	2.5	118	5.6		
IBBN	e P	Z	06:50:54.5	81.9	89.8					
BUG	e P	Z	06:50:56.0	82.2	89.3					
WLF	e P	Z	06:51:00.5	82.9	88.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	06:59:55.5	8.410N	93.130E	33.0N	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:11:43.9	76.7	93.0					
GEC2	e P	Z	07:11:44.5	76.7	92.4	1.8	89	5.6		
WET	e P	Z	07:11:47.5	77.3	91.8					
CLL	e P	Z	07:11:46.6	77.3	92.4					
MOX	e P	Z	07:11:51.9	78.1	91.2					

FUR	e P	Z	07:11:52.5	78.3	90.4				
GRA1	e P	Z	07:11:53.9	78.4	90.7	1.3	62	5.6	
CLZ	e P	Z	07:11:56.4	78.9	90.4	1.7	71	5.4	
BSEG	e P	Z	07:11:56.8	79.0	90.8				
STU	e P	Z	07:12:00.6	79.7	89.0				
BFO	e P	Z	07:12:03.7	80.3	88.2	1.6	48	5.2	
IBBN	e P	Z	07:12:05.3	80.5	88.5				
BUG	e P	Z	07:12:07.0	80.9	87.9				
WLF	e P	Z	07:12:11.2	81.6	86.8				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	07:07: 9.6	10.240N	93.820E	21.6	5.4			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:18:54.0	75.7	91.3					
GEC2	e P	Z	07:18:54.7	75.8	90.6	1.1	44	5.5		
CLL	e P	Z	07:18:56.9	76.3	90.7					
WET	e P	Z	07:18:57.8	76.4	90.1					
MOX	e P	Z	07:19:02.2	77.2	89.4					
FUR	e P	Z	07:19:03.4	77.4	88.6					
GRA1	e P	Z	07:19:04.3	77.4	88.9					
	e pP	Z	07:19:10.5			1.4	86			
BSEG	e P	Z	07:19:06.7	77.9	89.1					
CLZ	e P	Z	07:19:06.5	77.9	88.7	1.1	52	5.6		
STU	e P	Z	07:19:12.2	78.8	87.2					
BFO	e P	Z	07:19:14.1	79.4	86.5	1.3	36	5.2		
IBBN	e P	Z	07:19:15.4	79.5	86.8					
BUG	e P	Z	07:19:17.2	79.9	86.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	07:24:47.9	6.600N	92.850E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:36:43.4	77.9	94.4					
GEC2	e P	Z	07:36:43.6	77.9	93.8	0.8	14	5.1		
WET	e P	Z	07:36:46.7	78.5	93.3					
CLL	e P	Z	07:36:46.3	78.5	93.8					
MOX	e P	Z	07:36:51.2	79.3	92.6					
FUR	e P	Z	07:36:51.8	79.5	91.9					
GRA1	e P	Z	07:36:53.1	79.6	92.1	0.8	15	5.0		
CLZ	e P	Z	07:36:55.8	80.2	91.8	0.8	13	4.9		
BSEG	e P	Z	07:36:56.4	80.3	92.1					
STU	e P	Z	07:36:59.4	80.9	90.4					

BFO	e P	Z	07:37:02.4	81.4	89.7	0.8	6	4.7	
IBBN	e P	Z	07:37:04.6	81.8	89.8				
BUG	e P	Z	07:37:06.2	82.1	89.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	07:21: 6.6	22.400S	177.130W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:40:48.6	148.0	13.1					
	e PKPab	Z	07:40:52.0							
IBBN	e PKPbc	Z	07:40:53.6	149.9	9.0					
CLZ	e PKPbc	Z	07:40:53.8	150.0	14.0					
CLL	e PKPbc	Z	07:40:53.6	150.0	19.0					
	e PKPab	Z	07:40:59.3							
BRG	e PKPbc	Z	07:40:54.2	150.2	21.0					
BUG	e PKPbc	Z	07:40:55.6	150.8	8.3					
MOX	e PKPbc	Z	07:40:55.9	150.9	16.8					
GRA1	e PKPbc	Z	07:40:58.4	151.9	16.6					
WET	e PKPbc	Z	07:40:58.5	152.1	20.1					
GEC2	e PKPbc	Z	07:40:58.5	152.2	21.9					
	e PKPab	Z	07:41:08.4							
WLF	e PKPbc	Z	07:41:00.6	152.6	6.6					
	e PKPab	Z	07:41:10.2							
FUR	e PKPbc	Z	07:41:01.5	153.4	17.6					
	e PKPab	Z	07:41:13.6							
BFO	e PKPbc	Z	07:41:02.3	153.7	11.5					
	e PKPab	Z	07:41:14.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	07:38:28.0	12.790N	92.470E	33.0N	5.8			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:49:54.6	72.9	90.6	1.1	117	5.9		
GEC2	e P	Z	07:49:55.5	73.0	89.8	1.2	120	5.9		
CLL	e P	Z	07:49:57.6	73.5	90.0	1.2	94	5.7		
WET	e P	Z	07:49:58.7	73.6	89.3	1.2	101	5.7		
MOX	e P	Z	07:50:03.1	74.4	88.8	1.2	87	5.7		
GRA1	e P	Z	07:50:05.3	74.6	88.2	1.3	162	5.9		
FUR	e P	Z	07:50:04.5	74.7	87.8	1.3	118	5.8		
BSEG	e P	Z	07:50:07.3	75.1	88.7	1.1	163	6.0		
CLZ	e P	Z	07:50:07.4	75.1	88.1	1.2	144	5.9		
STU	e P	Z	07:50:12.6	76.0	86.5	0.8	42	5.6		
BFO	e P	Z	07:50:15.5	76.6	85.7	1.3	61	5.6		

IBBN	e P	Z	07:50:16.5	76.7	86.2	1.2	227	6.2
BUG	e P	Z	07:50:18.4	77.1	85.6	1.2	117	5.9
WLF	e P	Z	07:50:23.8	77.9	84.4	1.8	192	5.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	07:52:29.2	7.220N	93.520E	33.0N	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:04:24.0	77.8	93.5	1.4	56	5.5		
GEC2	e P	Z	08:04:24.5	77.9	92.9	1.1	48	5.5		
WET	e P	Z	08:04:27.5	78.4	92.3	1.3	51	5.5		
CLL	e P	Z	08:04:27.0	78.4	92.9	1.3	42	5.4		
MOX	e P	Z	08:04:32.0	79.3	91.7	1.5	51	5.3		
FUR	e P	Z	08:04:32.7	79.5	90.9	1.5	101	5.6		
GRA1	e P	Z	08:04:33.9	79.5	91.2	1.1	25	5.0		
CLZ	e P	Z	08:04:36.4	80.1	90.9	1.7	129	5.6		
BSEG	e P	Z	08:04:36.8	80.2	91.2	1.0	93	5.7		
STU	e P	Z	08:04:40.1	80.8	89.5	1.4	62	5.4		
BFO	e P	Z	08:04:43.3	81.4	88.8	1.6	52	5.3		
IBBN	e P	Z	08:04:45.1	81.7	88.9	1.5	132	5.9		
BUG	e P	Z	08:04:46.8	82.0	88.4	1.6	132	5.8		
WLF	e P	Z	08:04:51.1	82.8	87.3	1.9	102	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	08:02:37.1	5.530N	94.430E	47.7	5.3			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:14:39.7	79.7	93.9					
GEC2	e P	Z	08:14:40.4	79.7	93.3	1.3	62	5.4		
WET	e P	Z	08:14:43.3	80.3	92.8					
CLL	e P	Z	08:14:43.1	80.3	93.2					
MOX	e P	Z	08:14:47.6	81.2	92.0					
GRA1	e P	Z	08:14:49.5	81.4	91.6	1.0	35	5.3		
	e pP	Z	08:15:03.3							
CLZ	e P	Z	08:14:52.0	82.0	91.2	1.2	30	5.3		
BSEG	e P	Z	08:14:52.6	82.1	91.5					
STU	e P	Z	08:14:55.5	82.7	89.9					
BFO	e P	Z	08:14:58.5	83.3	89.2	0.8	16	5.3		
IBBN	e P	Z	08:15:00.5	83.6	89.2					
BUG	e P	Z	08:15:02.2	83.9	88.8					
WLF	e P	Z	08:15:06.2	84.7	87.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	08:47:46.0	4.290N	94.970E	54.8	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:59:54.6	81.0	94.3					
GEC2	e P	Z	08:59:55.0	81.0	93.8	0.8	55	5.6		
WET	e P	Z	08:59:57.8	81.6	93.2					
CLL	e P	Z	08:59:57.4	81.6	93.6					
MOX	e P	Z	09:00:02.2	82.5	92.4					
FUR	e P	Z	09:00:02.7	82.6	91.8					
GRA1	e P	Z	09:00:03.8	82.7	92.0	0.8	29	5.6		
	e pP	Z	09:00:19.4							
CLZ	e P	Z	09:00:06.4	83.3	91.6	0.9	30	5.5		
BSEG	e P	Z	09:00:06.9	83.4	91.8					
STU	e P	Z	09:00:09.8	84.0	90.3					
BFO	e P	Z	09:00:12.6	84.6	89.7	0.8	20	5.4		
IBBN	e P	Z	09:00:14.8	84.9	89.6					
BUG	e P	Z	09:00:16.2	85.2	89.1					
WLF	e P	Z	09:00:20.6	86.0	88.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	09:02:39.1	7.340N	93.600E	28.6	4.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:14:35.2	77.8	93.4					
GEC2	e P	Z	09:14:35.7	77.8	92.8	0.8	5	4.7		
WET	e P	Z	09:14:38.7	78.4	92.2					
MOX	e P	Z	09:14:43.1	79.3	91.5					
FUR	e P	Z	09:14:44.0	79.4	90.8					
GRA1	e P	Z	09:14:44.9	79.5	91.0	0.8	7	4.6		
	e pP	Z	09:14:53.2							
CLZ	e P	Z	09:14:47.4	80.1	90.8	0.8	6	4.6		
BSEG	e P	Z	09:14:48.1	80.1	91.1					
BFO	e P	Z	09:14:54.8	81.4	88.6	0.9	3	4.4		
IBBN	e P	Z	09:14:56.5	81.7	88.8					
BUG	e P	Z	09:14:58.0	82.0	88.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	09:20: 3.0	8.500N	92.500E	33.0G	6.0			SZGRF

Nicobar Islands, India, region

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

BRG	e P	Z	09:31:47.1	76.2	93.5				
GEC2	e P	Z	09:31:47.3	76.2	92.8	1.0	188	6.2	
WET	e P	Z	09:31:50.5	76.8	92.2				
CLL	e P	Z	09:31:50.1	76.8	92.8				
MOX	e P	Z	09:31:55.3	77.7	91.6				
FUR	e P	Z	09:31:55.8	77.8	90.8				
GRA1	e P	Z	09:31:57.0	77.9	91.1	1.0	157	6.1	
	e pP	Z	09:32:03.6			1.0	260		
CLZ	e P	Z	09:31:59.6	78.5	90.9	1.0	146	6.0	
BSEG	e P	Z	09:32:00.1	78.5	91.3				
STU	e P	Z	09:32:03.5	79.2	89.4				
BFO	e P	Z	09:32:06.6	79.8	88.6	1.1	126	5.8	
IBBN	e P	Z	09:32:08.5	80.1	88.9				
BUG	e P	Z	09:32:10.1	80.4	88.4				
WLF	e P	Z	09:32:14.8	81.2	87.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	09:38:37.3	8.307N	92.406E	33.0N	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:50:22.6	76.3	93.7					
GEC2	e P	Z	09:50:22.9	76.3	93.0	0.8	9	5.0		
WET	e P	Z	09:50:26.1	76.9	92.4					
CLL	e P	Z	09:50:25.6	76.9	93.0					
MOX	e P	Z	09:50:30.2	77.8	91.8					
GRA1	e P	Z	09:50:32.7	78.0	91.3	0.9	13	5.1		
CLZ	e P	Z	09:50:35.2	78.6	91.1	0.8	8	4.8		
BSEG	e P	Z	09:50:35.7	78.6	91.5					
BFO	e P	Z	09:50:42.3	79.9	88.8	0.9	5	4.5		
IBBN	e P	Z	09:50:44.2	80.2	89.1					
BUG	e P	Z	09:50:46.0	80.5	88.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	09:38:37.3	8.650N	92.600E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:50:22.6	76.2	93.3					
GEC2	e P	Z	09:50:22.9	76.2	92.6	0.8	9	5.0		
WET	e P	Z	09:50:26.1	76.8	92.1					
CLL	e P	Z	09:50:25.6	76.8	92.7					
MOX	e P	Z	09:50:30.2	77.6	91.4					
GRA1	e P	Z	09:50:32.7	77.8	90.9	0.9	13	5.1		
CLZ	e P	Z	09:50:35.2	78.4	90.7	0.8	8	4.9		

BSEG	e P	Z	09:50:35.7	78.5	91.1				
BFO	e P	Z	09:50:42.3	79.7	88.5	0.9	5	4.5	
BUG	e P	Z	09:50:45.8	80.3	88.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	10:19:30.9	12.860N	92.520E	33.0N	6.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:30:57.4	72.9	90.6	1.2	310	6.3		
GEC2	e P	Z	10:30:58.4	73.0	89.8	1.2	292	6.3		
CLL	e P	Z	10:31:00.5	73.5	90.0	1.3	277	6.1		
WET	e P	Z	10:31:01.6	73.6	89.2	1.2	249	6.1		
MOX	e P	Z	10:31:06.0	74.3	88.7	1.3	287	6.1		
GRA1	e P	Z	10:31:08.2	74.6	88.1	1.3	396	6.3		
FUR	e P	Z	10:31:07.5	74.6	87.7	1.2	234	6.1		
BSEG	e P	Z	10:31:10.2	75.1	88.6	1.3	627	6.5		
CLZ	e P	Z	10:31:10.3	75.1	88.1	1.2	384	6.3		
STU	e P	Z	10:31:15.3	76.0	86.4	2.1	617	6.4		
BFO	e P	Z	10:31:18.6	76.6	85.6	1.4	141	5.9		
IBBN	e P	Z	10:31:19.4	76.7	86.1	1.3	582	6.6		
BUG	e P	Z	10:31:21.3	77.0	85.5	1.3	345	6.3		
WLF	e P	Z	10:31:26.8	77.9	84.3	1.6	408	6.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	10:33: 4.7	8.710N	92.230E	34.5	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:44:49.6	75.9	93.6					
GEC2	e P	Z	10:44:49.9	75.9	92.9	1.5	70	5.6		
WET	e P	Z	10:44:53.1	76.5	92.3					
CLL	e P	Z	10:44:52.5	76.5	92.9					
MOX	e P	Z	10:44:57.8	77.3	91.7					
FUR	e P	Z	10:44:58.4	77.5	90.9					
GRA1	e P	Z	10:44:59.6	77.6	91.2	1.3	53	5.5		
	e pP	Z	10:45:09.5							
CLZ	e P	Z	10:45:02.2	78.1	91.0	1.4	47	5.4		
BSEG	e P	Z	10:45:02.6	78.2	91.4					
STU	e P	Z	10:45:06.1	78.9	89.4					
BFO	e P	Z	10:45:09.1	79.5	88.7	1.3	27	5.0		
IBBN	e P	Z	10:45:11.0	79.7	89.0					
BUG	e P	Z	10:45:12.6	80.1	88.5					
WLF	e P	Z	10:45:17.4	80.8	87.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	10:43:29.0	6.200N	92.850E	38.2	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:55:24.9	78.2	94.1	0.9	40	5.6		
BRG	e P	Z	10:55:24.7	78.2	94.7					
WET	e P	Z	10:55:27.9	78.8	93.5					
CLL	e P	Z	10:55:27.7	78.8	94.0					
MOX	e P	Z	10:55:32.6	79.7	92.8					
FUR	e P	Z	10:55:32.9	79.8	92.1					
GRA1	e P	Z	10:55:34.3	79.9	92.4	0.9	34	5.3		
	e pP	Z	10:55:45.3							
CLZ	e P	Z	10:55:37.0	80.5	92.1	1.1	34	5.3		
BSEG	e P	Z	10:55:37.6	80.6	92.4					
STU	e P	Z	10:55:40.4	81.2	90.7					
BFO	e P	Z	10:55:43.4	81.7	89.9	0.8	13	5.1		
IBBN	e P	Z	10:55:45.7	82.1	90.1					
BUG	e P	Z	10:55:47.3	82.4	89.6					
WLF	e P	Z	10:55:51.6	83.1	88.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	10:51:20.7	7.570N	92.690E	33.0N	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:03:10.7	77.0	93.9					
GEC2	e P	Z	11:03:10.9	77.1	93.3	1.4	77	5.7		
WET	e P	Z	11:03:14.0	77.6	92.7					
CLL	e P	Z	11:03:13.6	77.7	93.3					
MOX	e P	Z	11:03:18.8	78.5	92.1					
FUR	e P	Z	11:03:19.2	78.6	91.3					
GRA1	e P	Z	11:03:20.5	78.7	91.6	1.2	77	5.6		
CLZ	e P	Z	11:03:23.1	79.3	91.3	1.5	71	5.5		
BSEG	e P	Z	11:03:23.6	79.4	91.7					
STU	e P	Z	11:03:27.0	80.0	89.9					
BFO	e P	Z	11:03:29.8	80.6	89.1	1.5	50	5.3		
IBBN	e P	Z	11:03:32.0	80.9	89.3					
BUG	e P	Z	11:03:33.5	81.2	88.8					
WLF	e P	Z	11:03:38.1	82.0	87.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	11:05: 2.2	12.800N	92.430E	33.0N	6.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:16:28.5	72.9	90.7	1.1	506	6.6		
GEC2	e P	Z	11:16:29.4	73.0	89.9	1.0	547	6.6		
CLL	e P	Z	11:16:31.5	73.5	90.1	1.2	508	6.4		
WET	e P	Z	11:16:32.6	73.5	89.3	1.2	541	6.5		
MOX	e P	Z	11:16:37.0	74.3	88.8	1.1	406	6.4		
GRA1	e P	Z	11:16:38.9	74.6	88.2	1.2	658	6.5		
	e		11:16:43.2							
FUR	e P	Z	11:16:38.6	74.6	87.9	1.2	414	6.3		
BSEG	e P	Z	11:16:41.2	75.1	88.7	1.1	903	6.7		
CLZ	e P	Z	11:16:41.3	75.1	88.2	1.1	726	6.6		
STU	e P	Z	11:16:46.4	76.0	86.5	1.1	222	6.2		
BFO	e P	Z	11:16:49.6	76.6	85.7	1.2	208	6.1		
IBBN	e P	Z	11:16:50.4	76.7	86.2	1.1	914	6.8		
BUG	e P	Z	11:16:52.4	77.0	85.7	1.1	629	6.7		
WLF	e P	Z	11:16:57.8	77.9	84.4	1.7	763	6.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	11:50:28.2	7.520N	93.650E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:02:22.4	77.7	93.2					
GEC2	e P	Z	12:02:22.6	77.7	92.6	1.3	44	5.4		
WET	e P	Z	12:02:25.0	78.3	92.0					
CLL	e P	Z	12:02:25.3	78.3	92.6					
MOX	e P	Z	12:02:30.1	79.1	91.4					
GRA1	e P	Z	12:02:32.0	79.4	90.9	1.6	64	5.4		
CLZ	e P	Z	12:02:34.8	79.9	90.6	1.5	48	5.2		
BSEG	e P	Z	12:02:34.7	80.0	90.9					
BFO	e P	Z	12:02:41.4	81.3	88.5	2.8	188	5.6		
IBBN	e P	Z	12:02:43.0	81.5	88.6					
BUG	e P	Z	12:02:45.1	81.9	88.1					
WLF	e P	Z	12:02:49.2	82.7	87.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	12:09:51.2	12.839N	92.047E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:21:14.1	72.6	90.9					
GEC2	e P	Z	12:21:14.8	72.7	90.1	0.9	12	5.1		
CLL	e P	Z	12:21:17.1	73.2	90.3					

WET	e P	Z	12:21:18.0	73.3	89.6			
MOX	e P	Z	12:21:22.5	74.1	89.1			
GRA1	e P	Z	12:21:25.9	74.3	88.5	0.8	13	5.0
FUR	e P	Z	12:21:23.7	74.3	88.1			
BSEG	e P	Z	12:21:27.0	74.8	89.0			
CLZ	e P	Z	12:21:26.9	74.8	88.4	0.8	17	5.1
STU	e P	Z	12:21:33.5	75.7	86.7			
BFO	e P	Z	12:21:34.7	76.3	86.0	0.9	4	4.6
IBBN	e P	Z	12:21:35.9	76.4	86.5			
BUG	e P	Z	12:21:38.8	76.8	85.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	12:11:55.6	10.920N	92.240E	27.2	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:23:30.6	74.2	92.1					
GEC2	e P	Z	12:23:31.1	74.3	91.3	1.2	50	5.4		
CLL	e P	Z	12:23:33.7	74.8	91.5					
WET	e P	Z	12:23:34.3	74.8	90.8					
MOX	e P	Z	12:23:39.0	75.6	90.2					
GRA1	e P	Z	12:23:41.0	75.9	89.7	1.2	74	5.7		
	e pP	Z	12:23:48.8							
CLZ	e P	Z	12:23:43.5	76.4	89.5	1.3	69	5.6		
BSEG	e P	Z	12:23:43.7	76.4	90.0					
BFO	e P	Z	12:23:51.1	77.8	87.2	1.2	31	5.3		
IBBN	e P	Z	12:23:52.5	78.0	87.6					
BUG	e P	Z	12:23:54.3	78.4	87.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	13:16:45.1	12.470N	93.030E	33.0N	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:28:15.3	73.5	90.4					
GEC2	e P	Z	13:28:16.1	73.6	89.6	0.8	6	4.6		
CLL	e P	Z	13:28:18.5	74.1	89.8					
WET	e P	Z	13:28:19.2	74.2	89.1					
MOX	e P	Z	13:28:23.7	75.0	88.6					
GRA1	e P	Z	13:28:25.5	75.2	88.0	0.8	4	4.5		
BSEG	e P	Z	13:28:27.9	75.7	88.4					
CLZ	e P	Z	13:28:28.0	75.7	87.9	0.7	5	4.7		
IBBN	e P	Z	13:28:37.0	77.3	86.0					
BUG	e P	Z	13:28:39.2	77.7	85.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	13:29: 2.6	8.280N	93.470E	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	13:40:52.7	77.0	92.9					
GEC2	e P	Z	13:40:53.1	77.0	92.2	1.0	23	5.3		
CLL	e P	Z	13:40:55.6	77.6	92.2					
WET	e P	Z	13:40:56.1	77.6	91.7					
MOX	e P	Z	13:41:01.0	78.4	91.0					
GRA1	e P	Z	13:41:02.9	78.7	90.5	1.3	47	5.4		
CLZ	e P	Z	13:41:05.0	79.2	90.3	1.1	20	5.0		
BSEG	e P	Z	13:41:05.7	79.3	90.6					
BFO	e P	Z	13:41:12.3	80.6	88.1	1.4	32	5.2		
IBBN	e P	Z	13:41:13.9	80.8	88.3					
BUG	e P	Z	13:41:15.5	81.2	87.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	13:44: 2.2	2.720N	94.670E	36.2	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	13:56:19.6	82.0	95.0	0.9	17	5.2		
BRG	e P	Z	13:56:19.5	82.0	95.5					
WET	e P	Z	13:56:22.5	82.6	94.4					
CLL	e P	Z	13:56:22.2	82.7	94.8					
MOX	e P	Z	13:56:26.9	83.5	93.7					
FUR	e P	Z	13:56:26.9	83.6	93.1					
GRA1	e P	Z	13:56:28.5	83.7	93.2	0.9	16	5.3		
	e pP	Z	13:56:39.1							
CLZ	e P	Z	13:56:31.3	84.3	92.8	0.8	10	5.1		
BSEG	e P	Z	13:56:32.0	84.5	93.0					
STU	e P	Z	13:56:34.6	85.0	91.6					
BFO	e P	Z	13:56:37.1	85.5	90.9	0.8	6	4.8		
IBBN	e P	Z	13:56:39.7	86.0	90.8					
BUG	e P	Z	13:56:41.0	86.3	90.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	13:56:33.8	1.950N	95.070E	33.0N	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:08:56.0	82.9	95.2	1.1	73	5.8		

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:08:56.0	82.9	95.7					
WET	e P	Z	14:08:58.8	83.4	94.6					
CLL	e P	Z	14:08:58.7	83.5	95.0					
MOX	e P	Z	14:09:03.3	84.3	93.8					
GRA1	e P	Z	14:09:04.7	84.5	93.4	1.4	77	5.7		
CLZ	e P	Z	14:09:07.6	85.2	93.0	1.1	32	5.5		
BSEG	e P	Z	14:09:08.4	85.3	93.1					
BFO	e P	Z	14:09:13.2	86.4	91.1	1.1	17	5.1		
IBBN	e P	Z	14:09:15.9	86.8	90.9					
BUG	e P	Z	14:09:17.2	87.1	90.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	14:14:23.4	14.060N	92.800E	33.0N	4.8			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:25:45.5	72.1	89.5					
GEC2	e P	Z	14:25:46.5	72.3	88.7	0.9	9	4.9		
CLL	e P	Z	14:25:48.6	72.7	88.9					
WET	e P	Z	14:25:49.7	72.9	88.2					
MOX	e P	Z	14:25:54.1	73.6	87.7					
GRA1	e P	Z	14:25:56.3	73.9	87.1	1.0	12	4.9		
BSEG	e P	Z	14:25:58.3	74.3	87.6					
CLZ	e P	Z	14:25:58.5	74.3	87.0	1.0	13	4.9		
BFO	e P	Z	14:26:06.9	75.9	84.6	1.0	2	4.3		
IBBN	e P	Z	14:26:07.5	75.9	85.1					
BUG	e P	Z	14:26:09.5	76.3	84.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	14:39: 6.3	8.140N	92.480E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:50:53.6	76.5	93.7					
GEC2	e P	Z	14:50:53.8	76.5	93.1	0.9	19	5.2		
WET	e P	Z	14:50:57.0	77.1	92.5					
CLL	e P	Z	14:50:56.6	77.1	93.1					
MOX	e P	Z	14:51:01.8	77.9	91.9					
FUR	e P	Z	14:51:02.5	78.1	91.1					
GRA1	e P	Z	14:51:03.5	78.2	91.4	1.2	44	5.5		
CLZ	e P	Z	14:51:06.1	78.7	91.1	0.8	14	5.0		
BSEG	e P	Z	14:51:06.7	78.8	91.5					
STU	e P	Z	14:51:09.9	79.5	89.6					
BFO	e P	Z	14:51:13.2	80.0	88.9	1.0	11	4.8		
IBBN	e P	Z	14:51:15.0	80.3	89.2					

BUG	e P	Z	14:51:16.7	80.7	88.6
WLF	e P	Z	14:51:21.0	81.4	87.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	14:40:29.4	10.580N	91.430E	33.0N	5.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:52:02.0	73.9	92.9					
GEC2	e P	Z	14:52:02.5	74.0	92.2	1.1	21	5.1		
CLL	e P	Z	14:52:05.1	74.5	92.3					
WET	e P	Z	14:52:05.7	74.5	91.6					
MOX	e P	Z	14:52:10.4	75.4	91.1					
FUR	e P	Z	14:52:11.3	75.6	90.2					
GRA1	e P	Z	14:52:12.4	75.6	90.5	1.3	39	5.4		
CLZ	e P	Z	14:52:14.9	76.2	90.4	1.2	33	5.3		
BSEG	e P	Z	14:52:15.2	76.2	90.9					
STU	e P	Z	14:52:19.0	77.0	88.8					
BFO	e P	Z	14:52:22.4	77.5	88.0	1.0	9	4.9		
IBBN	e P	Z	14:52:24.0	77.8	88.4					
BUG	e P	Z	14:52:25.8	78.1	87.9					
WLF	e P	Z	14:52:30.7	78.9	86.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	14:48:43.8	13.120N	92.520E	33.0N	6.1			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:00:09.3	72.7	90.4	1.0	190	6.2		
GEC2	e P	Z	15:00:10.2	72.8	89.6	1.0	198	6.2		
CLL	e P	Z	15:00:12.3	73.3	89.8	1.2	188	6.1		
WET	e P	Z	15:00:13.4	73.4	89.0	1.2	177	6.1		
MOX	e P	Z	15:00:17.9	74.1	88.5	1.0	150	6.0		
GRA1	e P	Z	15:00:20.1	74.4	87.9	1.2	260	6.2		
FUR	e P	Z	15:00:19.4	74.5	87.6	1.2	158	5.9		
BSEG	e P	Z	15:00:22.0	74.9	88.4	1.1	304	6.2		
CLZ	e P	Z	15:00:22.1	74.9	87.9	1.1	216	6.1		
STU	e P	Z	15:00:27.5	75.8	86.2	0.8	76	5.9		
BFO	e P	Z	15:00:30.4	76.4	85.4	1.3	96	5.8		
IBBN	e P	Z	15:00:31.3	76.5	86.0	1.2	338	6.4		
BUG	e P	Z	15:00:33.2	76.8	85.4	1.1	197	6.2		
WLF	e P	Z	15:00:38.7	77.7	84.1	1.5	241	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	15:06:32.1	3.410N	94.130E	18.8	5.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	15:18:47.0	81.1	95.0	1.1	104	5.8		
BRG	e P	Z	15:18:46.9	81.2	95.5					
WET	e P	Z	15:18:49.9	81.7	94.4					
CLL	e P	Z	15:18:49.7	81.8	94.8					
MOX	e P	Z	15:18:54.5	82.6	93.6					
FUR	e P	Z	15:18:54.5	82.7	93.1					
GRA1	e P	Z	15:18:55.9	82.8	93.2	1.1	71	5.8		
	e pP	Z	15:19:01.4							
CLZ	e P	Z	15:18:58.7	83.5	92.8	1.2	55	5.7		
BSEG	e P	Z	15:18:59.5	83.6	93.0					
STU	e P	Z	15:19:01.9	84.1	91.6					
BFO	e P	Z	15:19:04.5	84.7	90.9	1.1	21	5.3		
IBBN	e P	Z	15:19:07.1	85.1	90.8					
BUG	e P	Z	15:19:08.5	85.4	90.3					
WLF	e P	Z	15:19:12.5	86.1	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	15:12:21.7	4.550N	90.990E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	15:24:18.7	78.2	96.6	0.9	11	5.0		
BRG	e P	Z	15:24:18.5	78.3	97.2					
WET	e P	Z	15:24:21.9	78.8	96.1					
CLL	e P	Z	15:24:22.7	79.0	96.6					
MOX	e P	Z	15:24:26.3	79.8	95.4					
GRA1	e P	Z	15:24:28.0	79.9	94.9	0.9	15	4.9		
CLZ	e P	Z	15:24:31.5	80.6	94.6	1.0	9	4.8		
BSEG	e P	Z	15:24:32.8	80.8	94.9					
BFO	e P	Z	15:24:37.0	81.7	92.5	0.8	4	4.6		
WLF	e P	Z	15:24:45.3	83.2	91.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	16:21:26.4	5.040N	94.160E	40.8	5.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:33:32.5	79.9	94.4					
GEC2	e P	Z	16:33:32.7	79.9	93.9	1.6	136	5.6		
WET	e P	Z	16:33:35.6	80.5	93.3					

CLL	e P	Z	16:33:35.3	80.5	93.8				
MOX	e P	Z	16:33:40.2	81.4	92.6				
FUR	e P	Z	16:33:40.5	81.5	91.9				
GRA1	e P	Z	16:33:41.8	81.6	92.1	1.6	122	5.8	
	e pP	Z	16:33:53.7						
CLZ	e P	Z	16:33:44.4	82.2	91.8	1.2	52	5.5	
BSEG	e P	Z	16:33:45.0	82.3	92.0				
STU	e P	Z	16:33:47.9	82.9	90.5				
BFO	e P	Z	16:33:50.6	83.5	89.8	0.9	18	5.3	
IBBN	e P	Z	16:33:52.9	83.8	89.8				
BUG	e P	Z	16:33:54.4	84.1	89.3				
WLF	e P	Z	16:33:58.6	84.9	88.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	16:48:20.8	7.000N	93.250E	33.0N	4.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:00:15.0	77.8	93.9					
GEC2	e P	Z	17:00:15.3	77.9	93.2	0.7	6	4.8		
WET	e P	Z	17:00:18.3	78.4	92.7					
CLL	e P	Z	17:00:17.9	78.4	93.2					
MOX	e P	Z	17:00:22.5	79.3	92.0					
GRA1	e P	Z	17:00:24.7	79.5	91.5	0.8	8	4.7		
CLZ	e P	Z	17:00:27.4	80.1	91.2	0.8	4	4.4		
BSEG	e P	Z	17:00:28.0	80.2	91.6					
BFO	e P	Z	17:00:34.0	81.4	89.1	0.8	3	4.4		
BUG	e P	Z	17:00:38.1	82.0	88.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	16:55:16.7	3.670N	94.450E	33.0N	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:07:29.8	81.2	94.6	1.1	58	5.5		
BRG	e P	Z	17:07:29.7	81.2	95.1					
WET	e P	Z	17:07:32.7	81.7	94.0					
CLL	e P	Z	17:07:32.4	81.8	94.4					
MOX	e P	Z	17:07:37.2	82.6	93.2					
FUR	e P	Z	17:07:37.3	82.7	92.6					
GRA1	e P	Z	17:07:38.6	82.8	92.8	1.1	45	5.6		
CLZ	e P	Z	17:07:41.0	83.5	92.4	1.0	27	5.4		
BSEG	e P	Z	17:07:42.1	83.6	92.6					
STU	e P	Z	17:07:44.6	84.1	91.1					
BFO	e P	Z	17:07:47.3	84.7	90.5	1.4	20	5.2		

IBBN	e P	Z	17:07:49.8	85.1	90.4	
BUG	e P	Z	17:07:51.2	85.4	89.9	
WLF	e P	Z	17:07:55.3	86.1	88.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	17:44:59.7	10.100N	93.370E	23.7	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:56:42.8	75.5	91.7					
GEC2	e P	Z	17:56:43.6	75.6	91.0	1.3	38	5.4		
CLL	e P	Z	17:56:45.7	76.1	91.1					
WET	e P	Z	17:56:46.6	76.2	90.5					
MOX	e P	Z	17:56:51.3	77.0	89.9					
GRA1	e P	Z	17:56:53.0	77.2	89.4	1.4	54	5.5		
	e pP	Z	17:56:59.8							
CLZ	e P	Z	17:56:55.8	77.8	89.2	1.5	51	5.4		
BSEG	e P	Z	17:56:55.8	77.8	89.6					
STU	e P	Z	17:57:00.2	78.6	87.6					
BFO	e P	Z	17:57:03.2	79.2	86.9	1.3	24	5.1		
IBBN	e P	Z	17:57:04.3	79.4	87.2					
BUG	e P	Z	17:57:06.0	79.7	86.7					
WLF	e P	Z	17:57:10.9	80.5	85.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	17:50: 5.8	12.060N	92.960E	28.7	5.0			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:01:38.1	73.8	90.8					
GEC2	e P	Z	18:01:39.1	73.9	90.0	0.7	13	5.0		
CLL	e P	Z	18:01:41.1	74.4	90.1					
WET	e P	Z	18:01:42.3	74.4	89.4					
MOX	e P	Z	18:01:46.7	75.2	88.9					
GRA1	e P	Z	18:01:48.9	75.5	88.3	0.8	14	5.2		
	e pP	Z	18:01:57.1							
FUR	e P	Z	18:01:48.2	75.5	88.0					
BSEG	e P	Z	18:01:50.8	76.0	88.7					
CLZ	e P	Z	18:01:51.0	76.0	88.2	0.7	14	5.2		
STU	e P	Z	18:01:55.8	76.9	86.6					
BFO	e P	Z	18:01:59.2	77.5	85.9	0.8	5	4.7		
IBBN	e P	Z	18:02:00.1	77.6	86.3					
BUG	e P	Z	18:02:02.1	77.9	85.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	17:56:38.2	13.320N	91.920E	33.0N	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:08:00.5	72.1	90.7					
GEC2	e P	Z	18:08:01.2	72.3	89.9	0.8	26	5.4		
CLL	e P	Z	18:08:03.5	72.7	90.1					
WET	e P	Z	18:08:04.4	72.8	89.4					
MOX	e P	Z	18:08:09.2	73.6	88.8					
GRA1	e P	Z	18:08:11.0	73.9	88.3	0.9	26	5.3		
BSEG	e P	Z	18:08:13.5	74.3	88.8					
CLZ	e P	Z	18:08:13.4	74.4	88.2	0.9	29	5.3		
STU	e P	Z	18:08:18.5	75.3	86.5					
IBBN	e P	Z	18:08:22.5	75.9	86.3					
BUG	e P	Z	18:08:24.9	76.3	85.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	18:10:49.4	9.180N	92.920E	35.1	5.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:22:33.4	75.9	92.7					
GEC2	e P	Z	18:22:34.0	76.0	92.0	1.4	41	5.4		
CLL	e P	Z	18:22:36.4	76.6	92.1					
WET	e P	Z	18:22:37.0	76.6	91.5					
MOX	e P	Z	18:22:41.5	77.4	90.8					
FUR	e P	Z	18:22:42.4	77.6	90.0					
GRA1	e P	Z	18:22:42.8	77.7	90.3	1.2	17	5.1		
	e pP	Z	18:22:52.9							
CLZ	e P	Z	18:22:45.8	78.2	90.1	0.9	22	5.3		
BSEG	e P	Z	18:22:46.2	78.2	90.5					
BFO	e P	Z	18:22:53.1	79.6	87.9	1.3	23	5.0		
IBBN	e P	Z	18:22:54.7	79.8	88.2					
BUG	e P	Z	18:22:56.4	80.1	87.6					
WLF	e P	Z	18:23:01.2	80.9	86.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	18:31:42.3	5.860N	93.340E	33.0N	5.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:43:41.7	78.8	94.5					
GEC2	e P	Z	18:43:42.0	78.8	93.9	1.2	55	5.4		

WET	e P	Z	18:43:45.0	79.3	93.4				
CLL	e P	Z	18:43:44.6	79.4	93.9				
MOX	e P	Z	18:43:49.6	80.2	92.7				
FUR	e P	Z	18:43:50.1	80.3	92.0				
GRA1	e P	Z	18:43:51.3	80.4	92.2	1.0	46	5.4	
CLZ	e P	Z	18:43:54.0	81.1	91.9	1.0	30	5.3	
BSEG	e P	Z	18:43:54.6	81.2	92.2				
STU	e P	Z	18:43:57.3	81.7	90.5				
BFO	e P	Z	18:44:00.4	82.3	89.8	1.3	28	5.2	
IBBN	e P	Z	18:44:02.6	82.7	89.9				
BUG	e P	Z	18:44:04.1	83.0	89.4				
WLF	e P	Z	18:44:08.5	83.7	88.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	18:42:45.6	13.430N	92.350E	28.5	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:54:09.4	72.3	90.3					
GEC2	e P	Z	18:54:10.4	72.5	89.5	1.1	73	5.7		
CLL	e P	Z	18:54:12.4	72.9	89.7					
WET	e P	Z	18:54:13.6	73.0	89.0					
MOX	e P	Z	18:54:18.0	73.8	88.4					
GRA1	e P	Z	18:54:20.2	74.1	87.9	1.1	62	5.6		
	e pP	Z	18:54:28.3							
FUR	e P	Z	18:54:19.6	74.1	87.5					
BSEG	e P	Z	18:54:22.1	74.5	88.3					
CLZ	e P	Z	18:54:22.3	74.5	87.8	1.2	64	5.5		
STU	e P	Z	18:54:27.6	75.5	86.1					
BFO	e P	Z	18:54:30.6	76.1	85.3	1.2	27	5.3		
IBBN	e P	Z	18:54:31.4	76.1	85.9					
BUG	e P	Z	18:54:33.4	76.5	85.3					
WLF	e P	Z	18:54:39.0	77.4	84.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	18:47:54.1	6.860N	94.340E	33.0N	4.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:59:52.4	78.6	93.1					
GEC2	e P	Z	18:59:52.9	78.7	92.5	0.7	6	4.7		
WET	e P	Z	18:59:55.6	79.2	91.9					
CLL	e P	Z	18:59:55.0	79.2	92.5					
MOX	e P	Z	19:00:00.2	80.1	91.2					
GRA1	e P	Z	19:00:02.1	80.3	90.8	0.8	6	4.6		

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z	19:00:04.7	80.9	90.5	0.9	6	4.6		
BSEG	e P	Z	19:00:05.0	80.9	90.8					
BFO	e P	Z	19:00:11.3	82.2	88.4	0.9	3	4.5		
IBBN	e P	Z	19:00:13.1	82.5	88.5					
BUG	e P	Z	19:00:15.0	82.8	88.0					
WLF	e P	Z	19:00:19.0	83.6	86.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	18:59:14.6	3.810N	95.620E	33.0N	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:11:30.4	81.8	94.1					
GEC2	e P	Z	19:11:30.7	81.8	93.6	0.8	7	4.8		
WET	e P	Z	19:11:33.6	82.4	93.0					
CLL	e P	Z	19:11:33.2	82.4	93.4					
MOX	e P	Z	19:11:38.0	83.3	92.2					
GRA1	e P	Z	19:11:39.6	83.5	91.8	0.8	6	4.9		
CLZ	e P	Z	19:11:42.3	84.1	91.4	0.9	3	4.6		
BSEG	e P	Z	19:11:42.7	84.2	91.6					
BFO	e P	Z	19:11:48.4	85.4	89.5	0.8	3	4.5		
IBBN	e P	Z	19:11:50.5	85.7	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	19:03:48.2	3.810N	94.340E	34.6	5.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:16:00.0	81.0	94.6	1.6	185	5.9		
BRG	e P	Z	19:16:00.0	81.0	95.1					
WET	e P	Z	19:16:02.9	81.5	94.0					
CLL	e P	Z	19:16:02.7	81.6	94.4					
MOX	e P	Z	19:16:07.5	82.4	93.2					
FUR	e P	Z	19:16:07.7	82.5	92.6					
GRA1	e P	Z	19:16:09.0	82.6	92.8	1.7	173	6.0		
	e pP	Z	19:16:19.0							
CLZ	e P	Z	19:16:11.7	83.3	92.4	1.2	58	5.7		
BSEG	e P	Z	19:16:12.4	83.4	92.6					
STU	e P	Z	19:16:15.1	83.9	91.1					
BFO	e P	Z	19:16:17.7	84.5	90.4	1.6	40	5.4		
IBBN	e P	Z	19:16:20.2	84.9	90.4					
BUG	e P	Z	19:16:21.5	85.2	89.9					
WLF	e P	Z	19:16:25.6	85.9	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	19:19:52.0	1.840N	94.110E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:32:11.1	82.3	96.0	0.9	26	5.4		
BRG	e P	Z	19:32:11.1	82.4	96.5					
WET	e P	Z	19:32:14.0	82.9	95.4					
CLL	e P	Z	19:32:13.9	83.0	95.8					
MOX	e P	Z	19:32:18.5	83.8	94.6					
FUR	e P	Z	19:32:18.5	83.9	94.1					
GRA1	e P	Z	19:32:20.0	84.0	94.2	1.0	17	5.2		
CLZ	e P	Z	19:32:22.9	84.7	93.8	0.8	9	5.0		
BSEG	e P	Z	19:32:23.6	84.9	93.9					
STU	e P	Z	19:32:24.7	85.3	92.6					
BFO	e P	Z	19:32:28.4	85.8	91.9	0.8	5	4.7		
IBBN	e P	Z	19:32:31.1	86.3	91.8					
BUG	e P	Z	19:32:32.4	86.6	91.3					
WLF	e P	Z	19:32:36.4	87.3	90.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	19:55:12.3	10.790N	92.060E	28.2	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:06:47.5	74.2	92.3					
GEC2	e P	Z	20:06:48.0	74.3	91.6	0.8	5	4.6		
CLL	e P	Z	20:06:50.5	74.8	91.7					
WET	e P	Z	20:06:51.2	74.8	91.0					
MOX	e P	Z	20:06:55.9	75.6	90.4					
FUR	e P	Z	20:06:57.1	75.9	89.5					
GRA1	e P	Z	20:06:57.9	75.9	89.9	0.8	6	4.8		
	e pP	Z	20:07:06.0							
CLZ	e P	Z	20:07:00.4	76.4	89.8	0.7	5	4.7		
BSEG	e P	Z	20:07:00.6	76.4	90.2					
STU	e P	Z	20:07:05.1	77.2	88.1					
BFO	e P	Z	20:07:07.9	77.8	87.4	0.9	3	4.4		
IBBN	e P	Z	20:07:09.4	78.0	87.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	20:50:31.4	6.154N	126.970E	94.0G	5.1			NEIC-M

Mindanao, Philippine Islands

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

BRG	e	Pdiff	Z	21:04:03.1	99.3	68.0			
CLL	e	Pdiff	Z	21:04:03.2	99.7	67.2			
BSEG	e	Pdiff	Z	21:04:06.6	100.1	64.5			
GEC2	e	Pdiff	Z	21:04:07.1	100.2	68.1	1.0	10	5.2
WET	e	Pdiff	Z	21:04:09.2	100.6	67.4			
MOX	e	Pdiff	Z	21:04:09.2	100.8	66.2			
CLZ	e	Pdiff	Z	21:04:10.5	101.0	64.9	0.9	9	5.1
GRA1	e	Pdiff	Z	21:04:12.6	101.4	66.0	0.7	4	4.9
IBBN	e	Pdiff	Z	21:04:15.7	102.2	62.6			
STU	e	Pdiff	Z	21:04:19.3	103.0	64.5			
WLF	e	Pdiff	Z	21:04:25.8	104.4	61.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	21:06:46.8	3.800N	96.080E	33.0N	5.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z 21:19:04.5	82.1	93.7					
GEC2	e	P	Z 21:19:04.9	82.1	93.2	1.4	77	5.6		
WET	e	P	Z 21:19:07.7	82.7	92.7					
CLL	e	P	Z 21:19:07.2	82.7	93.0					
MOX	e	P	Z 21:19:12.0	83.6	91.9					
FUR	e	P	Z 21:19:12.6	83.7	91.3					
GRA1	e	P	Z 21:19:13.7	83.8	91.5	1.2	67	5.7		
CLZ	e	P	Z 21:19:16.1	84.4	91.0	1.1	47	5.6		
BSEG	e	P	Z 21:19:16.5	84.4	91.2					
STU	e	P	Z 21:19:19.8	85.1	89.8					
BFO	e	P	Z 21:19:22.4	85.7	89.1	1.0	31	5.4		
IBBN	e	P	Z 21:19:24.4	86.0	89.0					
BUG	e	P	Z 21:19:25.9	86.3	88.6					
WLF	e	P	Z 21:19:29.7	87.1	87.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	21:20:37.1	7.400N	92.300E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z 21:32:26.7	76.9	94.4					
GEC2	e	P	Z 21:32:26.9	76.9	93.7	0.9	7	4.8		
WET	e	P	Z 21:32:30.1	77.5	93.1					
CLL	e	P	Z 21:32:29.8	77.5	93.7					
MOX	e	P	Z 21:32:34.6	78.4	92.5					
FUR	e	P	Z 21:32:35.3	78.5	91.7					
GRA1	e	P	Z 21:32:36.7	78.6	92.0	0.9	9	4.8		
CLZ	e	P	Z 21:32:39.3	79.2	91.7	0.8	11	4.9		

BSEG	e P	Z	21:32:39.9	79.3	92.1				
BFO	e P	Z	21:32:46.1	80.5	89.5	0.8		3	4.4
IBBN	e P	Z	21:32:48.4	80.8	89.8				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	23:04:30.1	9.260N	91.590E	49.8	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:16:06.9	75.0	93.7					
GEC2	e P	Z	23:16:07.1	75.1	93.0	1.1	16	5.0		
WET	e P	Z	23:16:10.3	75.6	92.4					
CLL	e P	Z	23:16:10.0	75.7	93.1					
MOX	e P	Z	23:16:14.9	76.5	91.8					
FUR	e P	Z	23:16:15.9	76.7	91.0					
GRA1	e P	Z	23:16:17.1	76.7	91.3	1.1	26	5.3		
	e pP	Z	23:16:31.4							
CLZ	e P	Z	23:16:19.6	77.3	91.1	0.8	14	5.1		
BSEG	e P	Z	23:16:20.2	77.4	91.5					
STU	e P	Z	23:16:23.6	78.0	89.5					
BFO	e P	Z	23:16:26.7	78.6	88.8	1.0	11	4.9		
IBBN	e P	Z	23:16:28.8	78.9	89.2					
BUG	e P	Z	23:16:30.2	79.2	88.6					
WLF	e P	Z	23:16:34.8	80.0	87.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/26	23:31:43.6	8.500N	92.500E	33.0N	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:43:28.7	76.2	93.5					
GEC2	e P	Z	23:43:29.0	76.2	92.8	1.8	52	5.4		
WET	e P	Z	23:43:32.2	76.8	92.2					
CLL	e P	Z	23:43:31.8	76.8	92.8					
MOX	e P	Z	23:43:37.2	77.7	91.6					
GRA1	e P	Z	23:43:38.8	77.9	91.1	0.7	5	4.7		
CLZ	e P	Z	23:43:41.4	78.5	90.9	0.7	3	4.4		
BSEG	e P	Z	23:43:41.9	78.5	91.3					
STU	e P	Z	23:43:45.3	79.2	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	00:24:33.1	4.650N	94.010E	33.0N	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:36:40.6	80.1	94.2					
BRG	e P	Z	00:36:40.4	80.1	94.8					
RUE	e P	Z	00:36:41.5	80.4	94.9					
WET	e P	Z	00:36:43.5	80.7	93.7					
CLL	e P	Z	00:36:43.2	80.8	94.1	1.0	24	5.3		
GUNZ	e P	Z	00:36:45.7	81.1	93.4					
WERD	e P	Z	00:36:45.6	81.1	93.4					
MOX	e P	Z	00:36:48.0	81.6	92.9					
FUR	e P	Z	00:36:48.2	81.7	92.3					
GRA1	e P	Z	00:36:49.6	81.8	92.5	1.1	47	5.6		
CLZ	e P	Z	00:36:52.3	82.4	92.1	1.1	31	5.5		
BSEG	e P	Z	00:36:53.1	82.5	92.4					
BFO	e P	Z	00:36:58.3	83.7	90.1	1.0	16	5.2		
IBBN	e P	Z	00:37:00.8	84.0	90.1					
BUG	e P	Z	00:37:02.3	84.3	89.6					
WLF	e P	Z	00:37:06.4	85.1	88.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	00:32:15.5	5.200N	94.470E	33.0N	6.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:44:22.0	80.0	94.1					
GEC2	e P	Z	00:44:22.2	80.0	93.5	1.5	580	6.3		
WET	e P	Z	00:44:25.2	80.6	93.0					
CLL	i P	+ Z	00:44:24.8	80.6	93.4	1.3	164			
	e pP	Z	00:44:35.0							
	e		00:44:43.3							
	e S	N	00:54:23.3							
	e (SS)	N	00:59:37.7							
	e L	Z	01:24:11.6			22.0	1072		5.2	
MOX	e P	Z	00:44:29.6	81.5	92.2					
FUR	e P	Z	00:44:30.1	81.6	91.6					
GRA1	e P	Z	00:44:31.3	81.7	91.8	1.4	423	6.4		
	e		00:44:41.0							
CLZ	e P	Z	00:44:33.9	82.3	91.4	1.4	271	6.2		
BSEG	e P	Z	00:44:34.4	82.4	91.7					
STU	e P	Z	00:44:37.5	83.0	90.1					
BFO	e P	Z	00:44:40.2	83.6	89.4	1.0	109	6.0		
IBBN	i P	+ Z	00:44:42.3	83.9	89.4					
BUG	e P	Z	00:44:43.8	84.2	88.9					
WLF	e P	Z	00:44:48.2	85.0	87.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	00:39:44.4	8.860N	93.840E	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	00:51:33.6	76.8	92.2					
GEC2	e P		Z	00:51:33.8	76.9	91.5	1.1	40	5.4		
CLL	e P		Z	00:51:36.4	77.4	91.6					
WET	e P		Z	00:51:36.9	77.4	91.0					
MOX	e P		Z	00:51:41.3	78.2	90.3					
FUR	e P		Z	00:51:42.5	78.5	89.6					
GRA1	e P		Z	00:51:43.5	78.5	89.8	1.1	34	5.3		
CLZ	e P		Z	00:51:45.2	79.0	89.6					
BSEG	e P		Z	00:51:46.0	79.0	90.0					
BFO	e P		Z	00:51:52.8	80.4	87.4	1.2	18	4.9		
IBBN	e P		Z	00:51:54.6	80.6	87.6					
BUG	e P		Z	00:51:56.4	81.0	87.1					
WLF	e P		Z	00:52:01.2	81.8	86.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	00:49:28.8	12.460N	92.090E	31.0	6.0			SZGRF

Andaman Islands, India, region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P		Z	01:00:55.4	72.9	91.2					
GEC2	e P		Z	01:00:56.2	73.0	90.4	1.3	177	6.0		
CLL	i P	-	Z	01:00:58.6	73.5	90.6	1.5	207	6.0		
	e sP		Z	01:01:07.5							
	e S		E	01:10:24.8							
	e SS		Z	01:15:14.4							
	e L		Z	01:38:05.0			20.0	1991		5.4	
WET	e P		Z	01:00:59.4	73.6	89.8					
MOX	e P		Z	01:01:04.0	74.4	89.3					
GRA1	e P		Z	01:01:06.1	74.6	88.7	1.5	289	6.1		
	e pP		Z	01:01:15.0							
FUR	e P		Z	01:01:05.2	74.6	88.3					
BSEG	e P		Z	01:01:08.3	75.1	89.2					
CLZ	e P		Z	01:01:08.3	75.1	88.7	1.4	261	6.1		
STU	e P		Z	01:01:13.2	76.0	87.0					
BFO	e P		Z	01:01:16.3	76.6	86.2	1.4	93	5.7		
IBBN	e P		Z	01:01:17.4	76.7	86.7					
BUG	e P		Z	01:01:19.3	77.1	86.1					
WLF	e P		Z	01:01:24.8	77.9	84.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	01:46: 1.8	14.212N	93.841E	33.0N	4.7			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:57:26.1	72.7	88.6					
GEC2	e P	Z	01:57:27.2	72.9	87.8					
CLL	e P	Z	01:57:29.2	73.3	88.0					
MOX	e P	Z	01:57:34.7	74.2	86.8					
GRA1	e P	Z	01:57:37.2	74.5	86.2	0.9	8	4.7		
BSEG	e P	Z	01:57:38.4	74.8	86.7					
CLZ	e P	Z	01:57:38.8	74.9	86.1					
IBBN	e P	Z	01:57:47.6	76.4	84.2					
BUG	e P	Z	01:57:50.1	76.8	83.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	02:04:29.2	8.041N	92.507E	33.0N	5.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:16:16.7	76.6	93.1					
WET	e P	Z	02:16:19.6	77.1	92.5					
CLL	e P	Z	02:16:18.7	77.2	93.1					
MOX	e P	Z	02:16:24.2	78.0	91.9					
FUR	e P	Z	02:16:24.5	78.2	91.1					
GRA1	e P	Z	02:16:26.0	78.2	91.4	1.3	28	5.2		
CLZ	e P	Z	02:16:28.5	78.8	91.2					
BSEG	e P	Z	02:16:29.0	78.9	91.5					
BFO	e P	Z	02:16:35.8	80.1	89.0					
IBBN	e P	Z	02:16:37.8	80.4	89.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	02:53: 1.8	5.500N	94.500E	33.0N	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:05:06.5	79.8	93.9					
GEC2	e P	Z	03:05:07.0	79.8	93.3	0.9	24	5.2		
WET	e P	Z	03:05:09.8	80.4	92.7					
CLL	e P	Z	03:05:09.4	80.4	93.2					
MOX	e P	Z	03:05:14.3	81.2	92.0					
GRA1	e P	Z	03:05:16.2	81.5	91.6	0.7	18	5.2		
CLZ	e P	Z	03:05:18.6	82.1	91.2	0.8	16	5.2		
BSEG	e P	Z	03:05:19.2	82.1	91.5					
BFO	e P	Z	03:05:25.0	83.4	89.2	1.1	11	5.0		
IBBN	e P	Z	03:05:27.3	83.7	89.2					

BUG	e P	Z	03:05:28.9	84.0	88.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	03:08:53.0	4.418N	94.323E	33.6	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	03:21:01.8	80.5	94.2	1.2	16	4.9		
BRG	e P	Z	03:21:01.8	80.5	94.7					
WET	e P	Z	03:21:04.9	81.1	93.6					
CLL	e P	Z	03:21:04.6	81.1	94.0					
MOX	e P	Z	03:21:09.1	82.0	92.8					
FUR	e P	Z	03:21:09.9	82.1	92.2					
GRA1	e P	Z	03:21:11.0	82.2	92.4	0.9	12	5.0		
CLZ	e P	Z	03:21:13.7	82.8	92.0					
BSEG	e P	Z	03:21:14.5	82.9	92.2					
STU	e P	Z	03:21:17.0	83.5	90.7					
BFO	e P	Z	03:21:20.2	84.0	90.0	0.8	3	4.7		
	e pP	Z	03:21:30.0							
BUG	e P	Z	03:21:23.7	84.7	89.5					
WLF	e P	Z	03:21:27.8	85.5	88.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z	03:23:26.7							
BSEG	e PKP	Z	03:23:26.4							
BUG	e PKP	Z	03:23:33.2							
CLL	e PKP	Z	03:23:27.2							
CLZ	e PKP	Z	03:23:29.1							
FUR	e PKP	Z	03:23:33.8							
GEC2	e PKP	Z	03:23:29.7							
GRA1	e PKP	Z	03:23:31.5							
STU	e PKP	Z	03:23:34.3							
WET	e PKP	Z	03:23:31.4							
WLF	e PKP	Z	03:23:36.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	03:46: 6.7	4.351N	95.034E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

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

BRG	e P	Z	03:58:18.2	81.0	94.2				
GEC2	e P	Z	03:58:18.8	81.0	93.7	0.7	5	4.7	
WET	e P	Z	03:58:21.7	81.6	93.1				
MOX	e P	Z	03:58:26.1	82.5	92.3				
GRA1	e P	Z	03:58:27.7	82.7	91.9	0.7	3	4.7	
CLZ	e P	Z	03:58:30.3	83.3	91.5				
BSEG	e P	Z	03:58:30.9	83.4	91.7				
BFO	e P	Z	03:58:36.9	84.6	89.6	0.6	2	4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	04:22:15.7	2.052N	94.639E	33.7	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	04:34:36.3	82.5	95.5					
WET	e P	Z	04:34:39.0	83.1	94.9					
MOX	e P	Z	04:34:43.9	84.0	94.1					
FUR	e P	Z	04:34:43.8	84.0	93.6					
GRA1	e P	Z	04:34:44.1	84.2	93.7	0.7	6	4.9		
	e pP	Z	04:34:53.9							
BSEG	e P	Z	04:34:48.8	85.0	93.4					
STU	e P	Z	04:34:51.5	85.5	92.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	04:26:12.5	7.760N	92.400E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:38:01.4	76.7	93.4	0.9	8	4.8		
WET	e P	Z	04:38:04.5	77.3	92.8					
CLL	e P	Z	04:38:03.9	77.3	93.4					
GRA1	e P	Z	04:38:10.6	78.4	91.7	0.9	10	5.0		
CLZ	e P	Z	04:38:13.5	79.0	91.4	1.1	8	4.7		
BSEG	e P	Z	04:38:14.0	79.1	91.8					
BFO	e P	Z	04:38:20.0	80.3	89.2	1.0	4	4.3		
IBBN	e P	Z	04:38:22.3	80.6	89.5					
BUG	e P	Z	04:38:24.8	80.9	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	05:10:38.0	3.518N	94.830E	31.7	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	05:22:52.5	81.5	94.4	0.8	6	4.8	
BRG	e P	Z	05:22:52.3	81.5	94.9				
WET	e P	Z	05:22:55.3	82.1	93.8				
MOX	e P	Z	05:22:59.8	83.0	93.0				
GRA1	e P	Z	05:23:01.3	83.2	92.6	0.9	7	4.9	
	e pP	Z	05:23:10.5						
CLZ	e P	Z	05:23:03.8	83.8	92.2				
BSEG	e P	Z	05:23:05.1	83.9	92.4				
BFO	e P	Z	05:23:10.6	85.0	90.3	0.7	3	4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	05:16:37.3	14.210N	92.770E	33.0N	4.4			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:27:58.7	72.0	89.4					
GEC2	e P	Z	05:27:59.7	72.2	88.6	0.8	3	4.5		
CLL	e P	Z	05:28:02.2	72.6	88.9					
WET	e P	Z	05:28:02.8	72.7	88.1					
MOX	e P	Z	05:28:06.9	73.5	87.6					
GRA1	e P	Z	05:28:09.6	73.8	87.0	0.8	3	4.4		
BSEG	e P	Z	05:28:11.3	74.1	87.5					
CLZ	e P	Z	05:28:11.5	74.2	87.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	05:50:12.2	8.500N	92.500E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:01:58.3	76.2	93.5					
GEC2	e P	Z	06:01:58.6	76.2	92.8	0.9	7	4.8		
WET	e P	Z	06:02:01.8	76.8	92.2					
CLL	e P	Z	06:02:01.2	76.8	92.8					
FUR	e P	Z	06:02:06.7	77.8	90.8					
GRA1	e P	Z	06:02:08.4	77.9	91.1	0.8	8	4.9		
CLZ	e P	Z	06:02:10.7	78.5	90.9	1.0	7	4.7		
BSEG	e P	Z	06:02:11.4	78.5	91.3					
BFO	e P	Z	06:02:18.1	79.8	88.6	1.0	4	4.3		
BUG	e P	Z	06:02:21.6	80.4	88.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	06:06:46.9	6.181N	92.943E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:18:43.4	78.3	94.6					
GEC2	e P	Z	06:18:43.9	78.3	94.0	0.8	10	5.0		
WET	e P	Z	06:18:47.1	78.8	93.5					
CLL	e P	Z	06:18:46.5	78.9	94.0					
FUR	e P	Z	06:18:51.9	79.8	92.1					
GRA1	e P	Z	06:18:53.0	79.9	92.3	1.0	10	4.7		
CLZ	e P	Z	06:18:55.3	80.6	92.0	0.8	5	4.6		
BSEG	e P	Z	06:18:56.8	80.7	92.3					
STU	e P	Z	06:18:59.7	81.2	90.6					
BFO	e P	Z	06:19:02.4	81.8	89.9	0.8	2	4.4		
BUG	e P	Z	06:19:06.7	82.5	89.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	06:40:48.9	10.120N	93.270E	33.0N	4.7			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:52:30.5	75.4	91.8					
GEC2	e P	Z	06:52:31.5	75.5	91.1	0.7	5	4.7		
WET	e P	Z	06:52:34.4	76.1	90.6					
MOX	e P	Z	06:52:39.2	76.9	89.9					
FUR	e P	Z	06:52:40.8	77.2	89.1					
GRA1	e P	Z	06:52:41.1	77.2	89.4	0.7	9	5.0		
CLZ	e P	Z	06:52:43.3	77.7	89.2	0.7	7	4.9		
BSEG	e P	Z	06:52:43.9	77.7	89.7					
BFO	e P	Z	06:52:51.1	79.1	87.0	0.8	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	06:59:12.3	2.050N	95.390E	29.6	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	07:11:35.0	83.0	94.9	1.1	38	5.5		
BRG	e P	Z	07:11:34.7	83.0	95.4					
WET	e P	Z	07:11:37.6	83.6	94.3					
CLL	e P	Z	07:11:37.7	83.6	94.7					
MOX	e P	Z	07:11:42.1	84.5	93.5					
GRA1	e P	Z	07:11:43.3	84.7	93.1	1.0	33	5.5		
	e pP	Z	07:11:51.9							
CLZ	e P	Z	07:11:46.4	85.3	92.7	1.0	23	5.3		
BSEG	e P	Z	07:11:47.0	85.4	92.8					
STU	e P	Z	07:11:49.4	86.0	91.5					
BFO	e P	Z	07:11:52.1	86.5	90.8	1.0	14	5.0		

IBBN	e P	Z	07:11:54.7	86.9	90.6	
BUG	e P	Z	07:11:56.0	87.2	90.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	07:15:33.6	15.020N	88.800E	33.0N	4.8			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:26:36.3	68.9	92.0					
GEC2	e P	Z	07:26:37.0	69.0	91.0					
CLL	e P	Z	07:26:39.4	69.5	91.4					
WET	e P	Z	07:26:40.0	69.5	90.5					
GRA1	e P	Z	07:26:46.6	70.6	89.4	1.0	7	4.8		
CLZ	e P	Z	07:26:49.5	71.1	89.5					
BSEG	e P	Z	07:26:49.7	71.2	90.2					
BFO	e P	Z	07:26:57.1	72.5	86.8					
WLF	e P	Z	07:27:07.0	73.9	85.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	07:47:46.5	4.470N	93.820E	25.4	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:59:53.5	80.1	94.5	0.8	7	4.6		
BRG	e P	Z	07:59:53.4	80.2	95.1					
WET	e P	Z	07:59:56.4	80.7	93.9					
MOX	e P	Z	08:00:01.0	81.6	93.2					
GRA1	e P	Z	08:00:02.4	81.8	92.8	0.8	10	5.0		
	e pP	Z	08:00:09.8							
CLZ	e P	Z	08:00:05.4	82.4	92.4	0.8	5	4.7		
BSEG	e P	Z	08:00:06.5	82.6	92.6					
BUG	e P	Z	08:00:15.5	84.4	89.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	08:10:53.4	4.061N	95.281E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:23:06.6	81.4	94.2					
GEC2	e P	Z	08:23:06.9	81.4	93.7					
WET	e P	Z	08:23:09.8	82.0	93.1					
CLL	e P	Z	08:23:09.6	82.0	93.5					
MOX	e P	Z	08:23:15.7	82.8	92.3					

GRA1	e P	Z	08:23:16.0	83.1	91.9	0.8	9	5.0	
CLZ	e P	Z	08:23:18.8	83.7	91.5				
BSEG	e P	Z	08:23:19.4	83.8	91.7				
BFO	e P	Z	08:23:24.9	84.9	89.6				
IBBN	e P	Z	08:23:26.3	85.3	89.5				
WLF	e P	Z	08:23:33.0	86.3	88.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	08:21:30.3	4.660N	95.840E	33.0N	5.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:33:43.7	81.3	93.3					
GEC2	e P	Z	08:33:43.9	81.3	92.9	1.4	73	5.5		
WET	e P	Z	08:33:46.8	81.9	92.3					
CLL	e P	Z	08:33:46.3	81.9	92.7					
MOX	e P	Z	08:33:51.1	82.7	91.5					
GRA1	e P	Z	08:33:53.0	83.0	91.1	1.2	43	5.6		
CLZ	e P	Z	08:33:55.3	83.5	90.7	1.3	34	5.4		
BSEG	e P	Z	08:33:55.9	83.6	90.9					
BFO	e P	Z	08:34:01.9	84.9	88.8	1.2	24	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	08:37:34.6	5.920N	93.830E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:49:35.6	79.0	94.1					
GEC2	e P	Z	08:49:36.1	79.1	93.5					
WET	e P	Z	08:49:39.2	79.6	93.0					
CLL	e P	Z	08:49:38.9	79.7	93.5					
MOX	e P	Z	08:49:43.8	80.5	92.3					
GRA1	e P	Z	08:49:45.7	80.7	91.8	0.9	9	4.8		
CLZ	e P	Z	08:49:48.2	81.3	91.5					
BSEG	e P	Z	08:49:48.7	81.4	91.7					
BFO	e P	Z	08:49:54.4	82.6	89.4					
IBBN	e P	Z	08:49:56.8	82.9	89.5					
WLF	e P	Z	08:50:02.2	84.0	87.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	09:39: 6.5	5.280N	94.570E	33.0N	6.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:51:13.2	80.0	93.9					
GEC2	e P	Z	09:51:13.6	80.0	93.4	1.8	1307	6.7		
WET	e P	Z	09:51:16.4	80.6	92.8					
CLL	i P	+ Z	09:51:16.1	80.6	93.3	1.9	536	6.3		
	e PP	Z	09:54:15.1							
	e S	N	10:01:17.5							
	e SS	N	10:06:42.5							
	e LR	Z	10:19:39.5							
	e L	Z	10:33:34.8			20.0	2860		5.6	
MOX	e P	Z	09:51:20.9	81.5	92.1					
FUR	e P	Z	09:51:21.3	81.6	91.5					
GRA1	e P	Z	09:51:22.5	81.7	91.6	1.8	959	6.7		
CLZ	e P	Z	09:51:25.1	82.3	91.3	1.8	700	6.6		
BSEG	e P	Z	09:51:25.6	82.4	91.5					
STU	e P	Z	09:51:28.7	83.0	90.0					
BFO	e P	Z	09:51:31.4	83.6	89.3	1.4	198	6.1		
IBBN	e P	Z	09:51:33.6	83.9	89.3					
BUG	e P	Z	09:51:35.0	84.2	88.8					
WLF	e P	Z	09:51:39.4	85.0	87.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	09:57:52.3	6.880N	92.980E	33.0G	5.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:09:46.0	77.8	94.2					
GEC2	e P	Z	10:09:46.2	77.8	93.5	0.9	28	5.4		
WET	e P	Z	10:09:49.3	78.3	93.0					
CLL	e P	Z	10:09:48.9	78.4	93.5					
MOX	e P	Z	10:09:54.0	79.2	92.3					
FUR	e P	Z	10:09:54.5	79.4	91.6					
GRA1	e P	Z	10:09:55.8	79.4	91.8	1.0	33	5.3		
CLZ	e P	Z	10:09:58.4	80.0	91.5	0.9	22	5.1		
BSEG	e P	Z	10:09:59.0	80.1	91.9					
BFO	e P	Z	10:10:05.2	81.3	89.4	0.9	13	4.9		
IBBN	e P	Z	10:10:07.3	81.6	89.5					
BUG	e P	Z	10:10:08.8	82.0	89.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	10:06:24.4	6.760N	93.040E	53.6	5.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:17:14.2	77.9	93.6	1.4	270	6.2		

WET	e	P		Z	10:17:17.1	78.5	93.0				
CLL	i	P	+	Z	10:17:16.9	78.5	93.5	1.3	98	5.7	
	e	L		Z	10:50:56.4			20.0	2740		5.6
MOX	e	P		Z	10:17:21.5	79.3	92.3				
FUR	e	P		Z	10:17:21.9	79.5	91.6				
GRA1	e	P		Z	10:17:23.1	79.6	91.8	1.8	349	6.0	
	e	pP		Z	10:17:38.3						
CLZ	e	P		Z	10:17:25.7	80.2	91.6	1.3	134	5.7	
BSEG	e	P		Z	10:17:26.1	80.3	91.9				
STU	e	P		Z	10:17:29.2	80.9	90.1				
BFO	e	P		Z	10:17:31.8	81.4	89.4	1.3	63	5.5	
IBBN	e	P		Z	10:17:34.0	81.8	89.6				
BUG	e	P		Z	10:17:35.4	82.1	89.1				
WLF	e	P		Z	10:17:39.7	82.8	88.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	10:46:38.9	13.330N	92.620E	33.0	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:58:03.5	72.6	90.2					
GEC2	e P	Z	10:58:04.6	72.7	89.3	1.1	42	5.5		
CLL	e P	Z	10:58:06.6	73.2	89.6					
WET	e P	Z	10:58:07.7	73.3	88.8					
MOX	e P	Z	10:58:11.9	74.1	88.3					
GRA1	e P	Z	10:58:14.3	74.3	87.7	2.1	135	5.6		
	e pP	Z	10:58:23.7							
BSEG	e P	Z	10:58:16.4	74.7	88.2					
CLZ	e P	Z	10:58:16.6	74.8	87.7	1.1	32	5.3		
BFO	e P	Z	10:58:24.9	76.3	85.2	2.5	78	5.4		
IBBN	e P	Z	10:58:25.4	76.4	85.7					
BUG	e P	Z	10:58:27.6	76.7	85.2					
WLF	e P	Z	10:58:32.9	77.6	83.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	11:57:54.4	7.750N	92.660E	29.8	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:09:43.1	76.9	93.8					
GEC2	e P	Z	12:09:43.4	76.9	93.2	1.0	27	5.3		
WET	e P	Z	12:09:46.2	77.5	92.6					
CLL	e P	Z	12:09:45.8	77.5	93.2					
MOX	e P	Z	12:09:51.2	78.3	92.0					
GRA1	e P	Z	12:09:52.8	78.6	91.5	1.0	38	5.4		

	e pP	Z	12:10:01.3						
CLZ	e P	Z	12:09:55.7	79.2	91.2	1.0	23	5.2	
BSEG	e P	Z	12:09:56.3	79.2	91.6				
BFO	e P	Z	12:10:02.6	80.5	89.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	12:14: 3.1	12.140N	91.530E	33.0N	5.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:25:27.5	72.8	91.8					
GEC2	e P	Z	12:25:28.3	72.9	91.0	1.1	24	5.3		
CLL	e P	Z	12:25:30.5	73.4	91.2					
WET	e P	Z	12:25:31.5	73.4	90.5					
MOX	e P	Z	12:25:36.0	74.3	89.9					
FUR	e P	Z	12:25:36.0	74.5	89.0					
GRA1	e P	Z	12:25:38.1	74.5	89.4	1.1	25	5.1		
CLZ	e P	Z	12:25:40.4	75.0	89.3	0.8	24	5.3		
BSEG	e P	Z	12:25:40.4	75.1	89.8					
IBBN	e P	Z	12:25:49.5	76.6	87.4					
BUG	e P	Z	12:25:51.3	77.0	86.8					
WLF	e P	Z	12:25:56.9	77.8	85.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	14:31:14.2	16.490N	92.460E	33.0N	5.4			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:42:23.5	70.1	88.1					
GEC2	e P	Z	14:42:24.1	70.3	87.2					
WET	e P	Z	14:42:27.6	70.8	86.7					
GRA1	e P	Z	14:42:35.2	71.9	85.6	1.4	40	5.4		
BSEG	e P	Z	14:42:35.9	72.1	86.3					
CLZ	e P	Z	14:42:36.0	72.3	85.7					
IBBN	e P	Z	14:42:45.4	73.8	83.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	14:30:50.0	11.205N	92.729E	33.0N	5.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:42:23.5	74.3	91.5					
GEC2	e P	Z	14:42:24.2	74.4	90.8					

WET	e	P	Z	14:42:27.1	74.9	90.2				
GRA1	e	P	Z	14:42:34.3	76.0	89.1	1.6	32	5.2	
CLZ	e	P	Z	14:42:36.0	76.5	89.0				
BSEG	e	P	Z	14:42:36.3	76.5	89.4				
IBBN	e	P	Z	14:42:45.5	78.1	87.0				
WLF	e	P	Z	14:42:52.1	79.3	85.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	14:46:46.7	11.480N	92.180E	28.2	5.9			SZGRF

Andaman Islands, India, region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z	14:58:17.2	73.7	91.8					
	e	pP	Z	14:58:25.1							
GEC2	e	P	Z	14:58:17.9	73.8	91.0	1.0	129	5.9		
CLL	i	P	- Z	14:58:20.0	74.3	91.1	1.1	107			
	e	sP	Z	14:58:28.3							
	e	S	N	15:07:50.2							
	e	sS	N	15:08:04.0							
	e	L	Z	15:34:56.1			20.0	1588		5.3	
WET	e	P	Z	14:58:21.1	74.4	90.4					
MOX	e	P	Z	14:58:25.7	75.2	89.9					
FUR	e	P	Z	14:58:26.8	75.4	89.0					
GRA1	e	P	Z	14:58:27.7	75.4	89.3	1.4	214	6.0		
	e	pP	Z	14:58:35.4							
CLZ	i	P	- Z	14:58:30.0	75.9	89.2	1.1	150	6.0		
	e	pP	Z	14:58:38.4							
BSEG	e	P	Z	14:58:30.2	76.0	89.7					
STU	e	P	Z	14:58:34.6	76.8	87.6					
BFO	e	P	Z	14:58:37.9	77.4	86.8	1.3	72	5.6		
IBBN	e	P	Z	14:58:39.1	77.5	87.3					
	e	pP	Z	14:58:47.5							
BUG	e	P	Z	14:58:40.9	77.9	86.7					
WLF	e	P	Z	14:58:46.2	78.7	85.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	15:20:30.1	9.570N	93.620E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z	15:32:15.5	76.1	91.9					
GEC2	e	P	Z	15:32:16.2	76.2	91.2	0.8	18	5.2		
CLL	e	P	Z	15:32:18.5	76.7	91.3					
WET	e	P	Z	15:32:19.3	76.7	90.7					
MOX	e	P	Z	15:32:23.7	77.6	90.0					

FUR	e P	Z	15:32:24.9	77.8	89.2				
GRA1	e P	Z	15:32:25.5	77.8	89.5	0.8	8	4.9	
CLZ	e P	Z	15:32:28.0	78.3	89.3	0.9	16	5.2	
BSEG	e P	Z	15:32:28.2	78.3	89.7				
BFO	e P	Z	15:32:35.6	79.7	87.1				
IBBN	e P	Z	15:32:36.9	79.9	87.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	16:18: 7.7	3.700N	94.140E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:30:19.0	80.9	94.8	1.1	23	5.1		
BRG	e P	Z	16:30:18.8	81.0	95.3					
WET	e P	Z	16:30:21.8	81.5	94.2					
CLL	e P	Z	16:30:21.8	81.6	94.6					
MOX	e P	Z	16:30:26.7	82.4	93.4					
FUR	e P	Z	16:30:26.8	82.5	92.9					
GRA1	e P	Z	16:30:28.2	82.6	93.0	0.9	15	5.2		
CLZ	e P	Z	16:30:31.1	83.2	92.6	0.9	10	5.1		
BSEG	e P	Z	16:30:31.7	83.4	92.8					
BFO	e P	Z	16:30:37.0	84.5	90.7					
IBBN	e P	Z	16:30:39.2	84.9	90.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	17:39:52.6	3.630N	94.610E	24.2	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:52:06.2	81.3	94.5	1.2	52	5.4		
BRG	e P	Z	17:52:05.9	81.3	95.0					
WET	e P	Z	17:52:09.1	81.8	93.9					
CLL	e P	Z	17:52:08.9	81.9	94.3					
MOX	e P	Z	17:52:13.5	82.8	93.1					
GRA1	e P	Z	17:52:15.3	83.0	92.7	1.5	79	5.7		
	e pP	Z	17:52:22.4							
CLZ	e P	Z	17:52:18.0	83.6	92.3	1.5	43	5.5		
BSEG	e P	Z	17:52:18.8	83.7	92.5					
BFO	e P	Z	17:52:23.9	84.8	90.4	1.5	36	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	18:37:54.3	3.840N	94.340E	29.4	5.2			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:50:05.9	81.0	94.5	1.2	37	5.3		
BRG	e P	Z	18:50:05.8	81.0	95.0					
WET	e P	Z	18:50:08.4	81.5	94.0					
CLL	e P	Z	18:50:08.7	81.6	94.4					
MOX	e P	Z	18:50:13.4	82.4	93.2					
GRA1	e P	Z	18:50:14.7	82.6	92.8	1.0	25	5.4		
	e pP	Z	18:50:23.4							
CLZ	e P	Z	18:50:17.9	83.3	92.4	1.1	14	5.1		
BSEG	e P	Z	18:50:18.3	83.4	92.6					
BFO	e P	Z	18:50:23.6	84.5	90.4	1.0	10	5.0		
WLF	e P	Z	18:50:31.5	85.9	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	19:13:31.0	13.510N	91.810E	26.2	4.8			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:24:52.0	71.9	90.7					
GEC2	e P	Z	19:24:52.6	72.1	89.8	0.9	13	5.0		
CLL	e P	Z	19:24:55.1	72.5	90.1					
WET	e P	Z	19:24:55.8	72.6	89.3					
GRA1	e P	Z	19:25:02.6	73.7	88.2	0.8	10	4.9		
	e pP	Z	19:25:10.0							
FUR	e P	Z	19:25:02.4	73.7	87.8					
BSEG	e P	Z	19:25:04.8	74.1	88.7					
CLZ	e P	Z	19:25:04.9	74.1	88.2	0.8	9	4.8		
BFO	e P	Z	19:25:13.6	75.6	85.7	0.9	5	4.6		
IBBN	e P	Z	19:25:14.4	75.7	86.3					
WLF	e P	Z	19:25:21.1	77.0	84.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	19:18:31.4	10.040N	92.400E	33.0N	5.0			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:30:09.9	75.0	92.5					
GEC2	e P	Z	19:30:10.0	75.0	91.8	0.8	13	5.0		
CLL	e P	Z	19:30:13.0	75.6	91.9					
WET	e P	Z	19:30:13.2	75.6	91.3					
MOX	e P	Z	19:30:18.2	76.4	90.7					
GRA1	e P	Z	19:30:19.7	76.7	90.1	0.9	15	5.1		
CLZ	e P	Z	19:30:22.4	77.2	90.0	0.8	12	5.0		
BSEG	e P	Z	19:30:23.0	77.2	90.4					

	BUG	e	P		Z	19:30:33.3	79.1	87.5				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	19:26:56.6	7.410N	91.630E	33.0N	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:38:44.5	76.5	94.2	1.4	46	5.4		
BRG	e P	Z	19:38:44.4	76.5	94.9					
WET	e P	Z	19:38:47.6	77.1	93.6					
CLL	e P	Z	19:38:47.6	77.1	94.2					
MOX	e P	Z	19:38:52.5	78.0	93.0					
FUR	e P	Z	19:38:52.8	78.1	92.2					
GRA1	e P	Z	19:38:54.2	78.2	92.5	1.2	50	5.5		
CLZ	e P	Z	19:38:57.1	78.8	92.3	1.4	31	5.2		
BSEG	e P	Z	19:38:58.0	78.9	92.6					
STU	e P	Z	19:39:00.8	79.5	90.8					
BFO	e P	Z	19:39:04.0	80.0	90.0	1.6	45	5.1		
BUG	e P	Z	19:39:07.6	80.7	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	19:28:47.1	7.600N	94.140E	29.8	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:40:42.7	77.9	92.8					
GEC2	e P	Z	19:40:43.0	78.0	92.2	1.8	93	5.6		
CLL	e P	Z	19:40:45.6	78.5	92.1					
WET	e P	Z	19:40:46.2	78.5	91.6					
MOX	e P	Z	19:40:50.6	79.4	90.9					
GRA1	e P	Z	19:40:52.3	79.6	90.4	1.3	56	5.3		
	e pP	Z	19:41:00.9							
CLZ	e P	Z	19:40:55.1	80.2	90.2	1.3	50	5.3		
BSEG	e P	Z	19:40:55.1	80.2	90.5					
BFO	e P	Z	19:41:01.8	81.6	88.0	1.2	24	5.2		
BUG	e P	Z	19:41:05.5	82.1	87.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	20:10:53.0	2.780N	94.950E	33.0N	5.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:23:11.3	82.2	94.8	1.3	160	6.0		

BRG	e P	Z	20:23:11.2	82.2	95.2				
WET	e P	Z	20:23:14.2	82.7	94.2				
CLL	e P	Z	20:23:14.1	82.8	94.6	1.2	47	5.6	
	e L	Z	21:06:30.3			20.0	2646		5.6
MOX	e P	Z	20:23:18.6	83.6	93.4				
FUR	e P	Z	20:23:18.8	83.7	92.9				
GRA1	e P	Z	20:23:20.1	83.8	93.0	1.2	145	6.1	
CLZ	e P	Z	20:23:22.8	84.5	92.5	1.2	84	5.8	
BSEG	e P	Z	20:23:23.5	84.6	92.7				
STU	e P	Z	20:23:26.0	85.1	91.4				
BFO	e P	Z	20:23:28.5	85.7	90.7	1.4	72	5.6	
IBBN	e P	Z	20:23:31.1	86.1	90.5				
BUG	e P	Z	20:23:32.4	86.4	90.1				
WLF	e P	Z	20:23:36.4	87.1	89.1				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	20:23:37.4	5.955N	92.876E	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	20:35:35.2	78.4	94.2	1.1	21	5.2		
BRG	e P	Z	20:35:34.9	78.4	94.8					
WET	e P	Z	20:35:37.7	79.0	93.7					
MOX	e P	Z	20:35:42.9	79.9	93.0					
GRA1	e P	Z	20:35:44.3	80.1	92.5	0.9	25	5.1		
CLZ	e P	Z	20:35:47.5	80.7	92.2	0.9	12	4.9		
BSEG	e P	Z	20:35:47.8	80.8	92.5					
BFO	e P	Z	20:35:54.0	81.9	90.1	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	20:36:21.3	9.050N	93.170E	33.0N	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:48:07.1	76.2	92.6					
GEC2	e P	Z	20:48:07.8	76.3	91.9	1.1	30	5.3		
CLL	e P	Z	20:48:10.1	76.8	92.0					
WET	e P	Z	20:48:10.8	76.8	91.4					
MOX	e P	Z	20:48:15.5	77.7	90.7					
FUR	e P	Z	20:48:16.1	77.9	89.9					
GRA1	e P	Z	20:48:17.4	77.9	90.2	1.7	65	5.5		
CLZ	e P	Z	20:48:19.6	78.5	90.0	1.1	26	5.3		
BSEG	e P	Z	20:48:19.9	78.5	90.4					
STU	e P	Z	20:48:23.9	79.2	88.5					
BFO	e P	Z	20:48:27.0	79.8	87.8	1.5	34	5.0		

BUG	e P	Z	20:48:30.4	80.4	87.5	
WLF	e P	Z	20:48:34.9	81.2	86.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	20:41:11.2	10.000N	93.750E	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	20:52:55.1	75.8	91.5					
GEC2	e P	Z	20:52:55.8	76.0	90.8	1.0	14	5.0		
CLL	e P	Z	20:52:57.7	76.4	90.9					
WET	e P	Z	20:52:58.9	76.5	90.3					
MOX	e P	Z	20:53:02.6	77.3	89.7					
GRA1	e P	Z	20:53:04.7	77.6	89.1	1.3	30	5.3		
CLZ	e P	Z	20:53:07.3	78.1	88.9	1.2	15	5.0		
BSEG	e P	Z	20:53:07.5	78.1	89.3					
BFO	e P	Z	20:53:15.0	79.5	86.7					
BUG	e P	Z	20:53:18.3	80.0	86.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	21:25: 4.6	16.723N	91.090E	32.8	4.7			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:36:07.3	69.0	89.0					
GEC2	e P	Z	21:36:08.5	69.3	88.0					
CLL	e P	Z	21:36:10.5	69.6	88.4					
WET	e P	Z	21:36:11.7	69.8	87.5					
MOX	e P	Z	21:36:16.1	70.5	87.1					
GRA1	e P	Z	21:36:18.4	70.8	86.5	1.0	7	4.7		
	e pP	Z	21:36:27.8							
BSEG	e P	Z	21:36:20.1	71.2	87.3					
CLZ	e P	Z	21:36:20.1	71.2	86.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	21:55: 5.2	21.780S	177.400W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	22:14:45.1	147.3	13.4					
IBBN	e PKPbc	Z	22:14:50.4	149.2	9.4					
	e PKPab	Z	22:14:54.9							
CLZ	e PKPbc	Z	22:14:50.8	149.3	14.3					

CLL	e PKPbc	Z	22:14:50.7	149.4	19.2
BRG	e PKPbc	Z	22:14:51.3	149.6	21.1
	e PKPab	Z	22:14:56.4		
BUG	e PKPbc	Z	22:14:52.7	150.1	8.7
GRA1	e PKPbc	Z	22:14:55.8	151.3	16.8
	e PKPab	Z	22:15:03.7		
WLF	e PKPbc	Z	22:14:58.0	152.0	7.0
FUR	e PKPbc	Z	22:14:58.8	152.7	17.8
	e PKPab	Z	22:15:09.5		
BFO	e PKPbc	Z	22:14:59.8	153.1	11.8
	e PKPab	Z	22:15:11.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/27	23:58: 5.6	7.880N	91.320E	33.0N	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:09:49.7	75.9	94.1	1.3	34	5.3		
BRG	e P	Z	00:09:49.9	75.9	94.8					
WET	e P	Z	00:09:53.1	76.5	93.6					
CLL	e P	Z	00:09:52.9	76.6	94.2					
MOX	e P	Z	00:09:58.0	77.4	92.9					
FUR	e P	Z	00:09:58.4	77.5	92.1					
GRA1	e P	Z	00:09:58.4	77.6	92.4	1.5	73	5.6		
CLZ	e P	Z	00:10:02.7	78.2	92.2	1.1	32	5.4		
BSEG	e P	Z	00:10:03.1	78.3	92.6					
STU	e P	Z	00:10:06.5	78.9	90.7					
BFO	e P	Z	00:10:09.2	79.5	90.0	1.2	23	5.0		
IBBN	e P	Z	00:10:11.6	79.8	90.2					
BUG	e P	Z	00:10:12.9	80.1	89.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	00:37:36.5	4.660N	95.240E	33.0N	5.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:49:47.3	80.9	93.8					
GEC2	e P	Z	00:49:48.4	80.9	93.3	1.0	39	5.4		
WET	e P	Z	00:49:51.4	81.5	92.7					
CLL	e P	Z	00:49:50.9	81.5	93.1	1.1	10	4.7		
	e pP	Z	00:49:58.0							
	e LR	Z	01:20:23.3							
	e L	Z	01:31:35.8			18.0	766		5.1	
MOX	e P	Z	00:49:55.5	82.4	92.0					
FUR	e P	Z	00:49:56.0	82.5	91.4					

GRA1	e P	Z	00:49:56.2	82.6	91.5	1.2	52	5.7	
CLZ	e P	Z	00:49:59.8	83.2	91.1	1.4	68	5.7	
BSEG	e P	Z	00:50:00.4	83.2	91.4				
STU	e P	Z	00:50:03.9	83.9	89.9				
BFO	e P	Z	00:50:06.1	84.5	89.2	1.8	59	5.5	
IBBN	e P	Z	00:50:08.5	84.8	89.1				
BUG	e P	Z	00:50:08.9	85.1	88.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	03:21:37.7	8.910N	91.680E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:32:15.6	75.4	93.9					
GEC2	e P	Z	03:32:16.2	75.4	93.1	1.8	116	5.6		
WET	e P	Z	03:32:19.1	76.0	92.6					
CLL	e P	Z	03:32:18.5	76.0	93.2					
MOX	e P	Z	03:32:23.6	76.8	92.0					
FUR	e P	Z	03:32:24.2	77.0	91.1					
GRA1	e P	Z	03:32:25.3	77.1	91.5	1.6	99	5.7		
CLZ	e P	Z	03:32:28.3	77.6	91.3	1.6	59	5.5		
BSEG	e P	Z	03:32:28.6	77.7	91.7					
BFO	e P	Z	03:32:34.8	78.9	89.0	1.4	21	5.0		
IBBN	e P	Z	03:32:36.5	79.3	89.3					
WLF	e P	Z	03:32:42.3	80.3	87.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	05:36:15.4	9.410N	92.970E	33.0N	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:47:59.0	75.8	92.5					
GEC2	e P	Z	05:47:59.5	75.9	91.8	1.1	35	5.4		
CLL	e P	Z	05:48:01.8	76.4	91.9					
WET	e P	Z	05:48:02.7	76.4	91.3					
MOX	e P	Z	05:48:06.7	77.3	90.6					
FUR	e P	Z	05:48:08.0	77.5	89.8					
GRA1	e P	Z	05:48:09.0	77.5	90.1	2.5	322	6.0		
CLZ	e P	Z	05:48:11.4	78.0	89.9	1.2	39	5.4		
BSEG	e P	Z	05:48:11.8	78.1	90.3					
BFO	e P	Z	05:48:18.9	79.4	87.7	1.2	26	5.1		
BUG	e P	Z	05:48:22.6	80.0	87.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	09:31:11.5	37.720N	138.860E	300.0N	5.3			SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	09:42:40.1	78.2	39.2	1.2	44	5.4		
BRG	e P	Z	09:42:44.6	79.1	41.3	1.2	21	5.0		
CLL	e P	Z	09:42:44.9	79.2	40.7	1.0	25	5.2		
CLZ	e P	Z	09:42:48.5	79.8	39.0	1.2	46	5.3		
MOX	e P	Z	09:42:50.6	80.2	39.7					
IBBN	e P	Z	09:42:51.7	80.4	37.2					
GEC2	e P	Z	09:42:53.2	80.7	40.9	1.0	15	5.0		
WET	e P	Z	09:42:54.2	80.9	40.4	1.1	17	5.0		
GRA1	e P	Z	09:42:55.6	81.1	39.3	1.1	76	5.6		
FUR	e P	Z	09:43:01.7	82.3	39.2	0.9	53	5.8		
STU	e P	Z	09:43:03.7	82.7	37.9					
BFO	e P	Z	09:43:06.5	83.4	37.2	1.0	37	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	09:42:39.2	7.220N	93.860E	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	09:54:34.9	78.0	93.2					
GEC2	e P	Z	09:54:35.4	78.1	92.6	1.0	12	5.0		
WET	e P	Z	09:54:38.6	78.7	92.1					
MOX	e P	Z	09:54:43.1	79.5	91.4					
GRA1	e P	Z	09:54:44.5	79.7	90.9	1.0	29	5.2		
CLZ	e P	Z	09:54:47.5	80.3	90.6	1.0	18	5.0		
BSEG	e P	Z	09:54:47.7	80.4	90.9	1.0	37	5.3		
BFO	e P	Z	09:54:54.4	81.6	88.5	1.1	17	5.1		
IBBN	e P	Z	09:54:56.3	81.9	88.6	0.9	42	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	10:51:47.3	10.090N	92.040E	22.8	4.8			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:03:24.3	74.7	92.8					
GEC2	e P	Z	11:03:24.7	74.8	92.1	0.9	7	4.7		
CLL	e P	Z	11:03:27.2	75.3	92.2					
WET	e P	Z	11:03:27.9	75.3	91.5					
MOX	e P	Z	11:03:32.7	76.2	90.9					
GRA1	e P	Z	11:03:34.6	76.4	90.4	0.9	8	4.8		
	e pP	Z	11:03:41.1			0.9	8			

CLZ	e P	Z	11:03:37.2	76.9	90.2	0.8	6	4.8	
BSEG	e P	Z	11:03:37.6	77.0	90.7				
BFO	e P	Z	11:03:44.5	78.3	87.9				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	11:17:42.6	4.150N	94.750E	33.0N	6.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:29:54.4	81.0	94.5					
GEC2	e P	Z	11:29:54.9	81.0	94.0	2.0	536	6.2		
WET	e P	Z	11:29:57.5	81.5	93.4					
CLL	e P	Z	11:29:57.2	81.6	93.9					
MOX	e P	Z	11:30:02.1	82.4	92.7					
FUR	e P	Z	11:30:02.3	82.6	92.1					
GRA1	e P	Z	11:30:03.5	82.7	92.2	1.2	130	6.0		
CLZ	e P	Z	11:30:06.4	83.3	91.9	2.2	426	6.3		
BSEG	e P	Z	11:30:06.8	83.4	92.1					
STU	e P	Z	11:30:09.9	84.0	90.6					
BFO	e P	Z	11:30:12.5	84.5	89.9	1.2	69	5.7		
IBBN	e P	Z	11:30:14.8	84.9	89.8					
BUG	e P	Z	11:30:16.1	85.2	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	11:55:38.8	6.760N	94.670E	33.0N	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:07:39.6	78.9	92.9					
GEC2	e P	Z	12:07:39.8	79.0	92.3	1.1	17	5.0		
CLL	e P	Z	12:07:42.8	79.5	92.3					
WET	e P	Z	12:07:42.8	79.5	91.8					
MOX	e P	Z	12:07:47.1	80.4	91.1					
GRA1	e P	Z	12:07:48.8	80.6	90.6	0.8	8	4.8		
CLZ	e P	Z	12:07:51.7	81.2	90.3	0.8	7	4.8		
BFO	e P	Z	12:07:57.7	82.5	88.2	0.8	3	4.6		
BUG	e P	Z	12:08:01.9	83.1	87.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	14:08:43.0	9.850N	92.510E	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	14:20:22.8	75.2	92.6			
GEC2	e	P	Z	14:20:23.3	75.2	91.9	1.0	20	5.1
WET	e	P	Z	14:20:26.4	75.8	91.3			
MOX	e	P	Z	14:20:31.2	76.6	90.7			
GRA1	e	P	Z	14:20:32.4	76.9	90.2	1.2	23	5.2
CLZ	e	P	Z	14:20:35.7	77.4	90.0	1.0	24	5.3
BSEG	e	P	Z	14:20:35.7	77.5	90.4			
STU	e	P	Z	14:20:39.9	78.2	88.4			
BUG	e	P	Z	14:20:46.5	79.4	87.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	14:48:30.2	3.240N	93.710E	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 15:00:42.0	81.0	95.4	1.4	73	5.5		
BRG	e	P	Z 15:00:42.1	81.0	95.9					
WET	e	P	Z 15:00:45.0	81.6	94.8					
CLL	e	P	Z 15:00:45.1	81.7	95.2					
MOX	e	P	Z 15:00:49.7	82.5	94.1					
GRA1	e	P	Z 15:00:51.4	82.7	93.6	1.1	30	5.5		
CLZ	e	P	Z 15:00:54.2	83.3	93.2	1.0	14	5.2		
BSEG	e	P	Z 15:00:54.9	83.5	93.4					
BFO	e	P	Z 15:00:59.8	84.5	91.3	1.3	19	5.2		
IBBN	e	P	Z 15:01:02.8	85.0	91.2					
BUG	e	P	Z 15:01:03.9	85.2	90.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	17:11:32.1	12.120N	91.860E	33.0N	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z 17:22:59.4	73.0	91.6					
GEC2	e	P	Z 17:22:59.4	73.1	90.8	1.3	50	5.5		
CLL	e	P	Z 17:23:02.6	73.6	91.0					
WET	e	P	Z 17:23:03.0	73.7	90.2					
FUR	e	P	Z 17:23:09.1	74.7	88.8					
GRA1	e	P	Z 17:23:09.4	74.8	89.1	1.5	103	5.6		
CLZ	e	P	Z 17:23:11.9	75.3	89.1	1.1	49	5.4		
BSEG	e	P	Z 17:23:12.0	75.3	89.6					
STU	e	P	Z 17:23:16.9	76.1	87.4					
BFO	e	P	Z 17:23:20.2	76.7	86.6	1.2	30	5.3		
BUG	e	P	Z 17:23:23.3	77.2	86.5					
WLF	e	P	Z 17:23:28.0	78.0	85.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	17:46:20.8	6.930N	90.997E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:58:07.0	76.4	95.0	1.1	20	5.2		
BRG	e P	Z	17:58:07.2	76.5	95.7					
WET	e P	Z	17:58:10.3	77.0	94.5					
CLL	e P	Z	17:58:11.0	77.1	95.0					
MOX	e P	Z	17:58:15.5	77.9	93.8					
FUR	e P	Z	17:58:15.9	78.0	93.0					
GRA1	e P	Z	17:58:17.0	78.1	93.3	1.1	35	5.4		
CLZ	e P	Z	17:58:19.9	78.8	93.1	1.1	24	5.1		
BSEG	e P	Z	17:58:20.8	78.9	93.4					
BFO	e P	Z	17:58:26.6	80.0	90.8	1.0	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	19:55:15.0	9.541N	93.024E	33.0N	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:06:57.6	75.7	92.4					
GEC2	e P	Z	20:06:58.3	75.8	91.7	0.9	26	5.4		
CLL	e P	Z	20:07:00.6	76.3	91.8					
WET	e P	Z	20:07:01.4	76.4	91.1					
MOX	e P	Z	20:07:05.8	77.2	90.5					
FUR	e P	Z	20:07:07.0	77.4	89.7					
GRA1	e P	Z	20:07:07.5	77.4	90.0	2.0	114	5.7		
CLZ	e P	Z	20:07:10.3	78.0	89.8	0.9	26	5.4		
BSEG	e P	Z	20:07:10.5	78.0	90.2					
STU	e P	Z	20:07:14.8	78.8	88.3					
BFO	e P	Z	20:07:18.0	79.4	87.5	2.6	144	5.6		
IBBN	e P	Z	20:07:19.3	79.6	87.8					
BUG	e P	Z	20:07:20.7	79.9	87.3					
WLF	e P	Z	20:07:25.9	80.7	86.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	20:33:57.0	35.690N	29.710E	33.0N	4.4			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:38:00.9	17.6	132.3	1.1	24	4.2		
WET	e P	Z	20:38:07.0	18.2	131.3	1.0	28	4.3		

BRG	e P	Z	20:38:15.9	18.9	137.2				
GRA1	e P	Z	20:38:20.6	19.4	129.2	1.1	27	4.4	
MOX	e P	Z	20:38:26.4	19.8	132.0	1.1	27	4.4	
STU	e P	Z	20:38:27.6	19.9	123.4	1.1	18	4.2	
CLZ	e P	Z	20:38:41.1	21.2	132.0	1.3	23	4.4	
BUG	e P	Z	20:38:53.0	22.5	125.8	1.2	40	4.7	
IBBN	e P	Z	20:38:56.6	22.7	128.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	21:07:45.4	54.340N	175.080W	277.9	5.7			SZGRF

Bering Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	21:18:39.5	71.6	3.3					
IBBN	e P	Z	21:18:48.4	73.3	1.7					
CLZ	e P	Z	21:18:51.1	73.7	3.3	1.8	175	5.8		
CLL	e P	Z	21:18:53.6	74.1	4.9	1.8	133	5.8		
	e pP	Z	21:19:59.6							
	e (S)	E	21:28:12.7							
BUG	e P	Z	21:18:54.0	74.2	1.4					
BRG	e P	Z	21:18:55.8	74.5	5.4					
MOX	e P	Z	21:18:57.8	74.9	4.0					
GRA1	e P	Z	21:19:03.6	75.8	3.8	1.2	137	5.9		
	e pP	Z	21:20:08.0							
WLF	e P	Z	21:19:04.5	76.0	0.7					
WET	e P	Z	21:19:05.8	76.3	4.8					
GEC2	e P	Z	21:19:07.2	76.6	5.3	1.3	42	5.4		
STU	e P	Z	21:19:08.3	76.8	2.6					
BFO	e P	Z	21:19:11.2	77.3	2.0	1.9	127	5.7		
FUR	e P	Z	21:19:11.9	77.4	3.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	21:47:27.6	8.369N	93.921E	33.0N	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:59:18.2	77.2	92.5					
GEC2	e P	Z	21:59:18.7	77.3	91.8	1.2	41	5.4		
CLL	e P	Z	21:59:21.4	77.8	91.8					
WET	e P	Z	21:59:21.9	77.8	91.2					
MOX	e P	Z	21:59:26.2	78.7	90.6					
GRA1	e P	Z	21:59:28.1	78.9	90.1	1.1	50	5.5		
CLZ	e P	Z	21:59:30.6	79.4	89.9	1.1	46	5.4		
BSEG	e P	Z	21:59:30.4	79.5	90.2					
STU	e P	Z	21:59:34.3	80.2	88.4					

BFO	e P	Z	21:59:38.4	80.8	87.7	1.2	25	5.1	
IBBN	e P	Z	21:59:39.6	81.0	87.9				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	21:51:52.2	3.360N	94.760E	33.0N	5.2			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:04:07.8	81.6	94.5	1.1	34	5.4		
BRG	e P	Z	22:04:07.9	81.6	95.0					
WET	e P	Z	22:04:10.6	82.2	94.0					
CLL	e P	Z	22:04:10.6	82.2	94.3					
MOX	e P	Z	22:04:15.0	83.1	93.2					
GRA1	e P	Z	22:04:16.6	83.3	92.8	1.0	20	5.3		
CLZ	e P	Z	22:04:19.3	83.9	92.3	1.2	23	5.3		
BSEG	e P	Z	22:04:20.1	84.0	92.5					
BFO	e P	Z	22:04:25.2	85.1	90.4	0.9	8	5.0		
IBBN	e P	Z	22:04:27.8	85.5	90.3					
BUG	e P	Z	22:04:29.4	85.8	89.9					
WLF	e P	Z	22:04:33.1	86.5	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/28	23:35:30.4	11.313N	92.633E	33.0N	5.0			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:47:03.6	74.1	91.5					
CLL	e P	Z	23:47:06.8	74.7	90.9					
WET	e P	Z	23:47:07.3	74.8	90.2	1.0	9	4.8		
MOX	e P	Z	23:47:11.9	75.6	89.6					
GRA1	e P	Z	23:47:13.9	75.9	89.1	0.9	17	5.2		
CLZ	e P	Z	23:47:16.3	76.4	89.0	1.1	14	5.0		
BSEG	e P	Z	23:47:16.3	76.4	89.4					
IBBN	e P	Z	23:47:25.5	77.9	87.0					
BUG	e P	Z	23:47:27.3	78.3	86.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	01:39:47.2	9.130N	92.850E	45.0	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:51:29.8	75.9	92.8					
GEC2	e P	Z	01:51:30.1	76.0	92.1	1.1	59	5.6		

CLL	e P	Z	01:51:33.0	76.5	92.2	1.3	31	5.3	
	e sP	Z	01:51:45.7						
	e		01:52:01.6						
	e (S)	N	02:01:25.6						
	e L	Z	02:22:56.9			18.0	724		5.0
WET	e P	Z	01:51:33.2	76.6	91.5				
MOX	e P	Z	01:51:37.9	77.4	90.9				
FUR	e P	Z	01:51:38.4	77.6	90.1				
GRA1	e P	Z	01:51:39.0	77.6	90.4	1.1	48	5.5	
	e pP	Z	01:51:51.9						
CLZ	e P	Z	01:51:42.1	78.2	90.2	1.1	46	5.5	
BSEG	e P	Z	01:51:41.9	78.2	90.6				
STU	e P	Z	01:51:46.3	79.0	88.7				
BFO	e P	Z	01:51:49.2	79.6	88.0	1.3	45	5.2	
IBBN	e P	Z	01:51:51.2	79.8	88.2				
BUG	e P	Z	01:51:52.7	80.1	87.7				
WLF	e P	Z	01:51:57.5	80.9	86.6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	01:50:56.7	8.830N	93.430E	33.0N	6.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:02:44.3	76.5	92.5					
GEC2	e P	Z	02:02:44.8	76.6	91.9	1.2	253	6.2		
CLL	i P	- Z	02:02:47.1	77.1	91.9	1.5	235	6.1		
	e sP	Z	02:02:50.7							
	e (S)	E	02:12:34.3							
	e L	Z	02:42:51.8			22.0	2796		5.5	
WET	e P	Z	02:02:47.9	77.2	91.3					
MOX	e P	Z	02:02:52.4	78.0	90.7					
FUR	e P	Z	02:02:53.3	78.2	89.9					
GRA1	e P	Z	02:02:54.3	78.2	90.2	1.5	470	6.4		
CLZ	e P	Z	02:02:56.7	78.8	89.9	1.5	390	6.2		
BSEG	e P	Z	02:02:57.0	78.8	90.3					
STU	e P	Z	02:03:01.0	79.6	88.5					
BFO	e P	Z	02:03:03.9	80.2	87.7	1.4	172	5.8		
IBBN	e P	Z	02:03:05.5	80.4	88.0					
BUG	e P	Z	02:03:07.2	80.7	87.4					
WLF	e P	Z	02:03:12.1	81.5	86.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	02:13:27.4	12.400N	92.150E	33.0N	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:24:54.2	73.0	91.2					
GEC2	e P	Z	02:24:55.1	73.1	90.4	1.1	38	5.4		
CLL	e P	Z	02:24:57.3	73.6	90.6					
WET	e P	Z	02:24:58.3	73.7	89.8					
MOX	e P	Z	02:25:02.8	74.5	89.3					
GRA1	e P	Z	02:25:04.9	74.7	88.7	1.4	88	5.6		
FUR	e P	Z	02:25:04.2	74.7	88.3					
BSEG	e P	Z	02:25:07.1	75.2	89.2					
CLZ	e P	Z	02:25:07.1	75.2	88.6	1.3	64	5.5		
STU	e P	Z	02:25:12.0	76.1	87.0					
BFO	e P	Z	02:25:15.0	76.7	86.2	1.5	40	5.3		
IBBN	e P	Z	02:25:16.4	76.8	86.7					
BUG	e P	Z	02:25:18.1	77.2	86.1					
WLF	e P	Z	02:25:23.5	78.0	84.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	05:56:59.0	9.730N	91.960E	33.0N	5.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:08:37.5	74.9	93.1					
GEC2	e P	Z	06:08:37.9	75.0	92.4	1.1	131	5.9		
WET	e P	Z	06:08:41.0	75.5	91.8					
CLL	e P	Z	06:08:41.2	75.5	92.5	1.2	76	5.7		
	e		06:08:59.8							
	e S	N	06:18:25.0							
	e SS	N	06:23:34.9							
	e LR	Z	06:38:34.7							
	e L	Z	06:48:51.5			20.0	6989		6.0	
MOX	e P	Z	06:08:45.6	76.4	91.2					
FUR	e P	Z	06:08:46.6	76.6	90.4					
GRA1	e P	Z	06:08:47.4	76.6	90.7	1.2	154	6.0		
	e		06:09:06.6							
	e		06:09:23.8							
CLZ	e P	Z	06:08:49.9	77.2	90.5	1.0	108	5.9		
BSEG	e P	Z	06:08:50.4	77.2	91.0					
STU	e P	Z	06:08:54.3	77.9	88.9					
BFO	e P	Z	06:08:57.3	78.5	88.2	1.0	54	5.5		
IBBN	e P	Z	06:08:59.1	78.8	88.6					
BUG	e P	Z	06:09:01.7	79.1	88.0					
WLF	e P	Z	06:09:05.4	79.9	86.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	06:05:25.8	10.210N	92.350E	33.0G	5.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:17:04.1	74.8	92.5					
	e		06:17:21.8							
GEC2	e P	Z	06:17:03.8	74.9	91.7	1.0	73	5.6		
CLL	e P	Z	06:17:06.8	75.4	91.8					
WET	e P	Z	06:17:06.8	75.4	91.2					
MOX	e P	Z	06:17:11.2	76.3	90.6					
FUR	e P	Z	06:17:12.6	76.5	89.7					
GRA1	e P	Z	06:17:14.0	76.5	90.1	1.0	77	5.8		
CLZ	e P	Z	06:17:16.1	77.0	89.9	1.0	65	5.7		
BSEG	e P	Z	06:17:16.2	77.1	90.3					
STU	e P	Z	06:17:21.0	77.8	88.3					
BFO	e P	Z	06:17:24.0	78.4	87.6	1.1	34	5.4		
IBBN	e P	Z	06:17:25.4	78.6	88.0					
BUG	e P	Z	06:17:27.1	79.0	87.4					
WLF	e P	Z	06:17:31.6	79.8	86.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	06:19: 8.2	9.697N	93.412E	33.0N	5.3			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:30:51.3	75.9	92.0					
GEC2	e P	Z	06:30:51.5	76.0	91.3	1.2	24	5.2		
CLL	e P	Z	06:30:54.2	76.5	91.3					
WET	e P	Z	06:30:54.0	76.5	90.7					
MOX	e P	Z	06:30:59.0	77.3	90.1					
FUR	e P	Z	06:31:00.3	77.6	89.3					
GRA1	e P	Z	06:31:01.4	77.6	89.6	2.0	139	5.7		
CLZ	e P	Z	06:31:03.1	78.1	89.4	1.1	23	5.2		
BSEG	e P	Z	06:31:03.6	78.1	89.8					
STU	e P	Z	06:31:08.0	78.9	87.9					
BFO	e P	Z	06:31:11.1	79.5	87.2	1.8	33	5.0		
IBBN	e P	Z	06:31:12.0	79.7	87.4					
BUG	e P	Z	06:31:14.3	80.0	86.9					
WLF	e P	Z	06:31:19.4	80.9	85.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	06:30:47.9	13.610N	91.910E	33.0N	5.4			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:42:08.7	71.9	90.5					

GEC2	e P	Z	06:42:09.6	72.1	89.7	1.0	38	5.5
CLL	e P	Z	06:42:12.1	72.5	89.9			
WET	e P	Z	06:42:12.8	72.6	89.2			
MOX	e P	Z	06:42:17.1	73.4	88.7			
GRA1	e P	Z	06:42:19.8	73.7	88.1	1.0	41	5.4
BSEG	e P	Z	06:42:21.8	74.1	88.6			
CLZ	e P	Z	06:42:21.6	74.1	88.0	1.0	44	5.4
STU	e P	Z	06:42:27.0	75.0	86.3			
BFO	e P	Z	06:42:30.6	75.6	85.5	0.4	11	5.3
IBBN	e P	Z	06:42:31.2	75.7	86.1			
BUG	e P	Z	06:42:33.1	76.1	85.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	06:35:44.7	9.610N	92.860E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:47:26.7	75.6	92.5					
GEC2	e P	Z	06:47:27.2	75.7	91.8	0.9	14	5.1		
CLL	e P	Z	06:47:29.8	76.2	91.8					
WET	e P	Z	06:47:30.3	76.2	91.2					
MOX	e P	Z	06:47:34.9	77.0	90.6					
GRA1	e P	Z	06:47:36.9	77.3	90.1	0.9	13	5.0		
CLZ	e P	Z	06:47:39.4	77.8	89.9	0.6	7	5.0		
BSEG	e P	Z	06:47:39.9	77.9	90.3					
STU	e P	Z	06:47:44.1	78.6	88.4					
BFO	e P	Z	06:47:46.8	79.2	87.6	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	07:46:35.3	2.700N	94.660E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:58:52.0	82.0	95.1	1.2	21	5.1		
BRG	e P	Z	07:58:52.0	82.1	95.5					
WET	e P	Z	07:58:54.8	82.6	94.5					
CLL	e P	Z	07:58:55.2	82.7	94.8					
GRA1	e P	Z	07:59:01.6	83.7	93.3	1.2	20	5.2		
CLZ	e P	Z	07:59:04.1	84.3	92.8	1.2	18	5.2		
BSEG	e P	Z	07:59:04.7	84.5	93.0					
BFO	e P	Z	07:59:09.6	85.5	90.9	1.0	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	07:52:59.1	5.450N	93.180E	33.0N	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	08:05:00.4	79.0	94.3	1.1	16	5.0		
BRG	e P	Z	08:05:00.1	79.0	94.9					
WET	e P	Z	08:05:03.3	79.5	93.8					
CLL	e P	Z	08:05:03.5	79.6	94.3					
MOX	e P	Z	08:05:07.8	80.4	93.1					
GRA1	e P	Z	08:05:09.4	80.6	92.6	0.9	10	4.8		
CLZ	e P	Z	08:05:12.4	81.3	92.3	1.2	14	4.8		
BSEG	e P	Z	08:05:13.1	81.4	92.6					
STU	e P	Z	08:05:15.8	81.9	90.9					
BFO	e P	Z	08:05:18.6	82.5	90.2	0.9	9	5.0		
IBBN	e P	Z	08:05:19.3	82.9	90.3					
WLF	e P	Z	08:05:26.7	83.9	88.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	10:09:45.1	10.450N	91.310E	33.0N	5.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:21:18.4	74.0	93.1					
GEC2	e P	Z	10:21:17.3	74.0	92.4	1.6	37	5.2		
WET	e P	Z	10:21:22.0	74.6	91.8					
CLL	e P	Z	10:21:21.4	74.6	92.5					
MOX	e P	Z	10:21:26.2	75.4	91.2					
FUR	e P	Z	10:21:27.4	75.6	90.3					
GRA1	e P	Z	10:21:28.4	75.7	90.7	1.2	30	5.3		
CLZ	e P	Z	10:21:30.3	76.2	90.6	1.7	35	5.2		
BSEG	e P	Z	10:21:31.1	76.3	91.0					
BFO	e P	Z	10:21:37.9	77.6	88.2	2.1	51	5.3		
IBBN	e P	Z	10:21:39.8	77.8	88.6					
WLF	e P	Z	10:21:46.6	78.9	86.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	10:23:56.7	7.750N	92.300E	33.0N	5.0			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:35:46.3	76.7	94.1					
GEC2	e P	Z	10:35:46.9	76.7	93.5	0.9	11	5.0		
WET	e P	Z	10:35:49.8	77.2	92.9					
CLL	e P	Z	10:35:49.4	77.3	93.5					
MOX	e P	Z	10:35:54.5	78.1	92.3					

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:35:56.6	78.3	91.8	1.0	18	5.2		
CLZ	e P	Z	10:35:59.0	78.9	91.5	0.7	9	4.9		
BSEG	e P	Z	10:35:59.8	79.0	91.9					
BFO	e P	Z	10:36:05.9	80.2	89.3	1.8	30	4.9		
BUG	e P	Z	10:36:10.3	80.9	89.0					
WLF	e P	Z	10:36:12.9	81.6	87.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	10:27:58.4	5.290N	93.910E	33.0N	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:40:03.0	79.6	94.5					
GEC2	e P	Z	10:40:03.1	79.6	93.9	1.0	17	4.9		
WET	e P	Z	10:40:05.8	80.1	93.3					
CLL	e P	Z	10:40:05.5	80.2	93.8					
MOX	e P	Z	10:40:10.6	81.0	92.6					
GRA1	e P	Z	10:40:10.7	81.2	92.1	0.9	12	4.9		
CLZ	e P	Z	10:40:15.0	81.9	91.8	1.1	16	5.1		
BSEG	e P	Z	10:40:15.5	82.0	92.1					
BFO	e P	Z	10:40:21.7	83.1	89.8	1.3	10	4.9		
BUG	e P	Z	10:40:25.1	83.8	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	10:52:39.3	2.380S	94.360E	33.0N	5.3			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	11:05:13.3	85.7	98.6	1.6	51	5.4		
BRG	e P	Z	11:05:13.8	85.8	99.0					
WET	e P	Z	11:05:16.2	86.2	98.0					
CLL	e P	Z	11:05:17.2	86.5	98.2					
MOX	e P	Z	11:05:21.1	87.3	97.1					
GRA1	e P	Z	11:05:22.3	87.4	96.8	1.5	46	5.4		
CLZ	e P	Z	11:05:25.8	88.2	96.2	1.4	20	5.3		
BSEG	e P	Z	11:05:26.8	88.4	96.2					
BFO	e P	Z	11:05:29.7	89.1	94.5	0.9	12	5.1		
BUG	e P	Z	11:05:33.6	90.0	93.8					
WLF	e P	Z	11:05:37.6	90.7	92.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	11:59: 1.1	15.560N	90.858E	23.7	5.3			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:10:08.7	69.8	90.0					
GEC2	e P	Z	12:10:09.8	69.9	89.1	1.1	35	5.4		
CLL	e P	Z	12:10:12.8	70.4	89.4					
WET	e P	Z	12:10:12.9	70.5	88.6					
MOX	e P	Z	12:10:17.7	71.2	88.1					
GRA1	e P	Z	12:10:20.5	71.5	87.5	1.2	40	5.4		
	e pP	Z	12:10:27.2							
BSEG	e P	Z	12:10:21.6	71.9	88.2					
CLZ	e P	Z	12:10:22.3	72.0	87.6	0.8	24	5.4		
STU	e P	Z	12:10:28.2	72.9	85.7					
BFO	e P	Z	12:10:31.4	73.5	84.9	1.2	14	4.9		
IBBN	e P	Z	12:10:31.6	73.6	85.7					
BUG	e P	Z	12:10:33.8	73.9	85.0					
WLF	e P	Z	12:10:39.9	74.8	83.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	13:20:26.1	29.190N	131.880E	33.0N	5.9	6.1		SZGRF

Southeast of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	13:32:48.9	82.8	48.6	2.6	320	6.1		
BRG	e P	Z	13:32:50.2	83.1	51.0	2.2	181	5.9		
CLL	e P	Z	13:32:50.9	83.3	50.3	1.6	102	5.8		
CLL	e P	Z	13:32:51.0	83.3	50.3	2.0	188	6.0		
	e		13:33:02.1							
	e (PP)	Z	13:36:15.1							
	e S	E	13:43:25.1							
	e SS	E	13:48:49.2							
	e LR	Z	14:09:57.6							
	e L	Z	14:13:57.7			18.0	16664		6.5	
CLZ	e P	Z	13:32:56.2	84.2	48.4	2.1	350	6.2		
MOX	e P	Z	13:32:56.8	84.4	49.3	2.1	165	5.9		
GEC2	e P	Z	13:32:57.1	84.5	50.6	1.7	50	5.5		
WET	e P	Z	13:32:58.7	84.7	50.1	2.2	140	5.8		
IBBN	e P	Z	13:33:00.0	85.0	46.5	1.4	94	5.8		
GRA1	e P	Z	13:33:01.2	85.2	48.9	1.9	210	6.0		
	e S	E	13:43:33.0							
	e L	Z	14:14:55.3			18.8	7994		6.1	
BUG	e P	Z	13:33:03.9	85.9	46.1	2.1	240	6.0		
FUR	e P	Z	13:33:05.9	86.2	48.9	1.5	106	5.7		
STU	e P	Z	13:33:08.5	86.8	47.4					
BFO	e P	Z	13:33:12.2	87.5	46.7	1.7	34	5.4		
WLF	e P	Z	13:33:12.9	87.6	45.2	2.4	248	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	13:58:51.1	38.753N	142.383E	33.0N	5.3			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:10:49.6	78.6	36.2	1.1	47	5.4		
BRG	e P	Z	14:10:55.3	79.7	38.4	1.0	22	5.0		
CLL	e P	Z	14:10:55.1	79.7	37.8	0.9	36	5.3		
CLZ	e P	Z	14:10:58.9	80.2	36.0	1.0	38	5.4		
MOX	e P	Z	14:11:01.1	80.7	36.8	1.4	38	5.2		
IBBN	e P	Z	14:11:01.3	80.8	34.2	1.1	51	5.4		
GEC2	e P	Z	14:11:04.2	81.3	38.0	1.2	19	5.1		
WET	e P	Z	14:11:05.0	81.4	37.5	1.2	23	5.2		
GRA1	e P	Z	14:11:06.4	81.6	36.4	1.0	51	5.6		
BUG	e P	Z	14:11:05.8	81.7	33.8					
FUR	e P	Z	14:11:12.6	82.9	36.3	1.0	41	5.6		
STU	e P	Z	14:11:13.9	83.2	34.9	0.8	20	5.4		
BFO	e P	Z	14:11:17.4	83.9	34.3	1.0	29	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	14:03:23.3	3.260N	94.060E	28.8	5.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:15:36.9	81.2	95.1	1.6	148	5.8		
BRG	e P	Z	14:15:36.4	81.2	95.6					
WET	e P	Z	14:15:39.6	81.8	94.6					
CLL	e P	Z	14:15:39.5	81.9	95.0					
MOX	e P	Z	14:15:44.2	82.7	93.8					
FUR	e P	Z	14:15:44.3	82.8	93.2					
GRA1	e P	Z	14:15:45.7	82.9	93.4	1.4	87	5.8		
	e pP	Z	14:15:54.1							
CLZ	e P	Z	14:15:48.5	83.5	93.0	1.3	43	5.5		
BSEG	e P	Z	14:15:49.4	83.7	93.1					
BFO	e P	Z	14:15:54.2	84.7	91.0	1.8	56	5.5		
IBBN	e P	Z	14:15:57.0	85.2	90.9					
BUG	e P	Z	14:15:58.4	85.5	90.5					
WLF	e P	Z	14:16:02.0	86.2	89.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	15:36:29.2	10.890N	91.630E	27.7	5.0			SZGRF

Andaman Islands, India, region

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

BRG	e P	Z	15:48:01.9	73.8	92.6			
GEC2	e P	Z	15:48:02.3	73.9	91.8	1.1	9	4.7
CLL	e P	Z	15:48:05.0	74.4	92.0			
WET	e P	Z	15:48:05.6	74.4	91.3			
MOX	e P	Z	15:48:10.3	75.3	90.7			
GRA1	e P	Z	15:48:12.2	75.5	90.2	1.6	44	5.4
	e pP	Z	15:48:20.2					
CLZ	e P	Z	15:48:14.7	76.1	90.0	1.0	10	4.9
BSEG	e P	Z	15:48:15.1	76.1	90.5			
BFO	e P	Z	15:48:22.5	77.5	87.6	1.3	12	4.9
IBBN	e P	Z	15:48:24.2	77.7	88.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	15:50: 2.6	5.430N	94.890E	33.0G	5.3			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:02:09.7	80.1	93.6					
GEC2	e P	Z	16:02:10.0	80.1	93.1	0.8	40	5.4		
WET	e P	Z	16:02:12.9	80.7	92.5					
CLL	e P	Z	16:02:12.5	80.7	92.9					
MOX	e P	Z	16:02:17.4	81.5	91.7					
GRA1	e P	Z	16:02:19.0	81.8	91.3	1.0	29	5.4		
CLZ	e P	Z	16:02:21.6	82.3	90.9	0.8	14	5.1		
BSEG	e P	Z	16:02:22.1	82.4	91.2					
BFO	e P	Z	16:02:27.9	83.7	88.9	0.8	14	5.2		
IBBN	e P	Z	16:02:30.0	84.0	88.9					
BUG	e P	Z	16:02:31.6	84.3	88.5					
WLF	e P	Z	16:02:35.8	85.0	87.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	17:12:33.8	9.650N	93.790E	29.5	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:24:19.5	76.1	91.7					
GEC2	e P	Z	17:24:20.2	76.2	91.0	1.5	42	5.4		
CLL	e P	Z	17:24:22.5	76.7	91.1					
WET	e P	Z	17:24:23.3	76.8	90.5					
MOX	e P	Z	17:24:27.8	77.6	89.9					
GRA1	e P	Z	17:24:29.7	77.9	89.3	0.9	6	4.8		
	e pP	Z	17:24:38.2							
CLZ	e P	Z	17:24:32.1	78.4	89.1	0.9	6	4.7		
BSEG	e P	Z	17:24:32.2	78.4	89.5					
BFO	e P	Z	17:24:39.6	79.8	86.9	1.1	5	4.4		

IBBN	e P	Z	17:24:40.9	80.0	87.2
BUG	e P	Z	17:24:42.7	80.3	86.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	18:50:19.9	5.290N	94.410E	43.3	5.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:02:24.4	79.9	94.1	1.3	95	5.6		
GEC2	e P	Z	19:02:24.7	79.9	93.5	1.6	238	5.9		
WET	e P	Z	19:02:27.7	80.5	92.9	1.5	116	5.7		
CLL	e P	Z	19:02:27.2	80.5	93.4	1.4	66	5.5		
MOX	e P	Z	19:02:32.2	81.3	92.2	1.5	102	5.6		
FUR	e P	Z	19:02:32.6	81.5	91.6	1.5	144	5.9		
GRA1	e P	Z	19:02:33.8	81.6	91.8	1.5	154	5.9		
	e pP	Z	19:02:46.3							
CLZ	e P	Z	19:02:36.4	82.2	91.4	1.5	117	5.8		
BSEG	e P	Z	19:02:36.9	82.2	91.7	1.6	188	6.0		
STU	e P	Z	19:02:40.0	82.9	90.1	1.9	143	5.9		
BFO	e P	Z	19:02:42.7	83.4	89.4	1.7	109	5.8		
IBBN	e P	Z	19:02:44.9	83.8	89.4	1.4	157	6.0		
BUG	e P	Z	19:02:46.4	84.1	88.9	1.4	114	5.9		
WLF	e P	Z	19:02:50.7	84.8	87.9	1.5	129	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	19:31:59.5	14.440N	47.780W	33.0N	5.0			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:41:35.2	56.0	250.8	1.8	60	5.3		
BFO	e P	Z	19:41:42.3	57.0	253.5	1.5	26	5.0		
BUG	e P	Z	19:41:44.3	57.3	250.7	1.1	20	5.1		
STU	e P	Z	19:41:46.7	57.6	254.0	1.1	23	5.1		
IBBN	e P	Z	19:41:48.1	57.8	250.6	1.3	43	5.3		
FUR	e P	Z	19:41:55.6	58.8	256.2	1.2	38	5.3		
GRA1	e P	Z	19:41:57.6	59.1	255.2	1.7	34	5.1		
CLZ	e P	Z	19:41:58.2	59.2	253.2	1.2	19	5.0		
MOX	e P	Z	19:42:01.3	59.6	255.0	1.2	12	4.8		
BSEG	e P	Z	19:42:02.1	59.8	252.0					
WET	e P	Z	19:42:03.7	60.1	256.9	1.5	16	4.9		
GEC2	e P	Z	19:42:06.6	60.5	257.8	1.5	19	4.7		
CLL	e P	Z	19:42:08.2	60.7	255.9	1.0	21	4.9		
BRG	e P	Z	19:42:11.2	61.1	256.9	1.3	16	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	20:14:34.6	4.140N	95.640E	33.0N	4.9			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:26:49.1	81.6	93.8					
GEC2	e P	Z	20:26:49.6	81.6	93.3	0.7	10	5.1		
WET	e P	Z	20:26:52.5	82.1	92.8					
CLL	e P	Z	20:26:52.4	82.2	93.2					
MOX	e P	Z	20:26:56.9	83.0	92.0					
GRA1	e P	Z	20:26:58.6	83.2	91.6	0.7	6	4.9		
CLZ	e P	Z	20:27:01.3	83.8	91.2	0.7	3	4.7		
BSEG	e P	Z	20:27:01.6	83.9	91.3					
STU	e P	Z	20:27:04.8	84.5	89.9					
BFO	e P	Z	20:27:07.6	85.1	89.3	0.7	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	21:13: 1.7	4.710N	94.510E	58.3	5.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:25:06.8	80.4	94.4	1.5	124	5.6		
GEC2	e P	Z	21:25:07.1	80.4	93.8	1.1	200	6.0		
WET	e P	Z	21:25:10.0	81.0	93.2	1.1	86	5.7		
CLL	e P	Z	21:25:09.6	81.0	93.7	1.2	73	5.6		
MOX	e P	Z	21:25:14.5	81.9	92.5	1.7	125	5.8		
FUR	e P	Z	21:25:14.9	82.0	91.9	1.0	106	5.9		
GRA1	e P	Z	21:25:16.1	82.1	92.1	1.1	151	6.0		
	e pP	Z	21:25:32.5							
CLZ	e P	Z	21:25:18.8	82.7	91.7	1.1	72	5.8		
BSEG	e P	Z	21:25:19.3	82.8	91.9	1.5	153	6.0		
STU	e P	Z	21:25:22.2	83.4	90.4	1.0	63	5.8		
BFO	e P	Z	21:25:25.0	83.9	89.7	1.4	86	5.8		
IBBN	e P	Z	21:25:27.2	84.3	89.7	1.2	107	5.9		
BUG	e P	Z	21:25:28.7	84.6	89.2	1.3	113	5.9		
WLF	e P	Z	21:25:32.9	85.3	88.2	1.4	100	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	22:22:19.7	40.365N	33.002E	5.0G	3.7			kan-m

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:26:12.7	16.1	114.6	1.0	4	3.6		
WET	e P	Z	22:26:19.1	16.7	114.1	0.9	5	3.6		

GRA1	e P	Z	22:26:41.7	17.9	113.1			
CLZ	e P	Z	22:26:48.4	19.3	117.5	0.8	5	3.8
BSEG	e P	Z	22:27:00.1	20.4	122.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	22:40:36.2	45.686N	10.875E	10.0G			3.5	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pn	Z	22:41:05.4	1.7	198.7					3.3
	e Sg	E	22:41:27.0							
DAVA	e Pn	Z	22:41:07.1	1.7	156.5					3.1
	e Sg	E	22:41:33.8							
KBA	e Pn	Z	22:41:14.7	2.2	231.6					3.1
	e Sg	E	22:41:47.3							
OBKA	e Pn	Z	22:41:20.5	2.7	253.4					3.3
ARSA	e Pn	Z	22:41:31.6	3.6	245.7					
GEC2	e Pn	Z	22:41:32.8	3.7	212.3					3.6
	e Pn	E	22:41:32.8							
	e Sn	E	22:42:17.5							
WET	e Sn	N	22:42:16.9	3.7	202.1					3.6
GRA1	e Pn	Z	22:41:36.1	4.0	183.5					4.0
	e Sg	E	22:42:44.2							
GUNZ	e Pn	Z	22:41:46.6	4.8	192.3					3.7
	e Sg	N	22:43:05.6							
TANN	e Pn	Z	22:41:48.7	4.8	193.2					
WERD	e Pn	Z	22:41:48.9	4.9	191.9					
BRG	e Pn	Z	22:41:58.1	5.6	202.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	22:55:30.1	5.830N	95.040E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:07:35.5	79.9	93.2					
WET	e P	Z	23:07:39.0	80.5	92.1	0.8	2	4.2		
CLL	e P	Z	23:07:40.1	80.5	92.6					
MOX	e P	Z	23:07:43.5	81.3	91.4					
GRA1	e P	Z	23:07:45.4	81.6	90.9	0.9	7	4.8		
CLZ	e P	Z	23:07:47.9	82.1	90.6	0.7	5	4.7		
BSEG	e P	Z	23:07:48.3	82.2	90.8	0.9	10	4.9		
STU	e P	Z	23:07:52.4	82.9	89.3					
BFO	e P	Z	23:07:54.7	83.5	88.6	0.8	2	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/29	23:14: 2.6	7.137N	92.118E	20.4	4.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:25:53.8	77.0	94.7					
WET	e P	Z	23:25:57.1	77.6	93.5	0.9	4	4.5		
CLL	e P	Z	23:25:56.8	77.6	94.0	0.9	3	4.5		
MOX	e P	Z	23:26:01.9	78.5	92.8					
FUR	e P	Z	23:26:02.3	78.6	92.0					
GRA1	e P	Z	23:26:03.7	78.7	92.3	0.9	8	4.7		
	e pP	Z	23:26:09.5							
	e sP	Z	23:26:12.7							
CLZ	e P	Z	23:26:06.4	79.3	92.1	1.0	5	4.5		
BSEG	e P	Z	23:26:07.0	79.4	92.4					
STU	e P	Z	23:26:10.0	80.0	90.6					
BFO	e P	Z	23:26:13.1	80.6	89.9	0.8	2	4.1		
IBBN	e P	Z	23:26:15.2	80.9	90.1					
BUG	e P	Z	23:26:16.8	81.2	89.5					
WLF	e P	Z	23:26:21.4	82.0	88.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	01:04:54.8	4.150N	93.840E	35.9	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	01:17:03.7	80.4	94.7	1.4	100	5.6		
BRG	e P	Z	01:17:03.6	80.4	95.2					
WET	e P	Z	01:17:06.7	81.0	94.1					
CLL	e P	Z	01:17:06.4	81.0	94.6					
MOX	e P	Z	01:17:11.1	81.9	93.4					
FUR	e P	Z	01:17:11.4	82.0	92.8					
GRA1	e P	Z	01:17:12.7	82.1	92.9	1.0	51	5.6		
	e pP	Z	01:17:23.0							
CLZ	e P	Z	01:17:15.5	82.7	92.6	1.1	35	5.5		
	e pP	Z	01:17:26.0							
BSEG	e P	Z	01:17:16.6	82.8	92.8					
STU	e P	Z	01:17:18.9	83.4	91.3					
BFO	e P	Z	01:17:21.8	83.9	90.6	1.0	14	5.2		
IBBN	e P	Z	01:17:24.1	84.3	90.6					
BUG	e P	Z	01:17:25.2	84.6	90.1					
WLF	e P	Z	01:17:29.5	85.3	89.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	01:13:52.8	20.710N	95.320E	33.0N	5.0			SZGRF

Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:24:54.1	68.7	83.0	0.8	11	5.1		
GEC2	e P	Z	01:24:56.7	69.1	82.0	0.9	13	5.2		
CLL	e P	Z	01:24:57.0	69.3	82.4	0.9	7	4.9		
WET	e P	Z	01:24:59.8	69.6	81.5	0.9	9	4.9		
MOX	e P	Z	01:25:03.2	70.2	81.1	1.1	11	4.9		
BSEG	e P	Z	01:25:05.2	70.5	81.3	0.9	19	5.2		
GRA1	e P	Z	01:25:06.2	70.6	80.5	1.1	18	5.1		
CLZ	e P	Z	01:25:06.9	70.8	80.6	0.9	12	5.0		
FUR	e P	Z	01:25:07.1	70.8	80.0	0.9	7	4.8		
STU	e P	Z	01:25:14.5	72.1	78.8					
IBBN	e P	Z	01:25:15.8	72.3	78.8					
BFO	e P	Z	01:25:18.1	72.7	78.0	1.0	5	4.6		
BUG	e P	Z	01:25:18.5	72.8	78.2					
WLF	e P	Z	01:25:25.6	73.8	76.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	01:43: 1.0	2.760N	94.400E	35.7	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	01:55:15.8	81.8	95.2	0.8	7	4.9		
BRG	e P	Z	01:55:15.8	81.8	95.7					
WET	e P	Z	01:55:18.4	82.4	94.6					
CLL	e P	Z	01:55:18.7	82.5	95.0					
MOX	e P	Z	01:55:23.3	83.3	93.8					
FUR	e P	Z	01:55:23.5	83.4	93.3					
GRA1	e P	Z	01:55:24.8	83.5	93.4	0.8	10	5.1		
	e pP	Z	01:55:35.1							
CLZ	e P	Z	01:55:27.7	84.1	93.0	0.8	8	5.0		
BSEG	e P	Z	01:55:28.3	84.3	93.2					
STU	e P	Z	01:55:30.6	84.8	91.8					
BFO	e P	Z	01:55:33.6	85.3	91.1	0.8	3	4.6		
BUG	e P	Z	01:55:37.5	86.1	90.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	04:28:56.2	7.590N	92.360E	672.3N	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	04:39:41.9	76.8	94.2					
GEC2	e P	Z	04:39:42.2	76.8	93.5	0.8	60	5.8		

WET	e	P		Z	04:39:45.1	77.4	93.0			
CLL	e	P		Z	04:39:44.7	77.4	93.5			
MOX	e	P		Z	04:39:49.5	78.3	92.3			
FUR	e	P		Z	04:39:50.1	78.4	91.5			
GRA1	i	P	+	Z	04:39:51.3	78.5	91.8	0.8	52	5.6
CLZ	e	P		Z	04:39:53.9	79.1	91.6	0.8	46	5.6
BSEG	e	P		Z	04:39:54.4	79.2	91.9			
STU	e	P		Z	04:39:57.4	79.8	90.1			
BFO	e	P		Z	04:40:00.2	80.4	89.4	0.7	26	5.2
IBBN	e	P		Z	04:40:02.3	80.7	89.6			
BUG	e	P		Z	04:40:03.8	81.0	89.1			
WLF	e	P		Z	04:40:08.2	81.8	87.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	06:38:31.5	10.650N	91.420E	34.1	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:50:03.3	73.9	92.9					
	e pP	Z	06:50:13.2							
GEC2	e P	Z	06:50:03.8	73.9	92.1	1.1	13	4.8		
CLL	e P	Z	06:50:06.1	74.5	92.3					
WET	e P	Z	06:50:06.9	74.5	91.6					
MOX	e P	Z	06:50:11.8	75.3	91.0					
GRA1	e P	Z	06:50:13.2	75.6	90.5	0.9	14	5.1		
	e pP	Z	06:50:23.2							
CLZ	e P	Z	06:50:15.8	76.1	90.4	0.8	7	4.9		
BSEG	e P	Z	06:50:16.6	76.2	90.8					
BFO	e P	Z	06:50:23.4	77.5	88.0	1.1	9	4.8		
BUG	e P	Z	06:50:27.7	78.1	87.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	07:23:32.5	7.870N	94.040E	33.0N	4.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:35:26.4	77.7	92.7					
GEC2	e P	Z	07:35:26.8	77.7	92.1					
CLL	e P	Z	07:35:29.2	78.3	92.0					
WET	e P	Z	07:35:29.6	78.3	91.5					
MOX	e P	Z	07:35:34.2	79.1	90.8					
GRA1	e P	Z	07:35:35.7	79.4	90.3	0.7	5	4.6		
BSEG	e P	Z	07:35:39.1	80.0	90.4					
IBBN	e P	Z	07:35:47.2	81.5	88.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	09:40:14.3	37.500N	137.500E	33.0N	4.9			SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:52:15.2	78.7	42.4					
CLL	e P	Z	09:52:15.4	78.8	41.8					
CLZ	e P	Z	09:52:19.6	79.5	40.0	0.7	7	4.7		
MOX	e P	Z	09:52:21.3	79.9	40.8					
GEC2	e P	Z	09:52:24.0	80.3	42.0	0.9	6	4.6		
WET	e P	Z	09:52:25.2	80.5	41.5					
GRA1	e P	Z	09:52:27.1	80.8	40.4	0.9	18	5.1		
FUR	e P	Z	09:52:32.5	81.9	40.3					
WLF	e P	Z	09:52:37.4	82.8	36.9					
BFO	e P	Z	09:52:37.8	83.0	38.3	0.9	14	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	- Z	13:41:43.5			0.9	46	5.4		
	e pP	Z	13:42:03.1							
	e sP	Z	13:42:10.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	17:34:37.3	5.200N	93.370E	35.4	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	17:46:40.1	79.3	94.4	1.1	34	5.3		
BRG	e P	Z	17:46:40.0	79.3	94.9					
WET	e P	Z	17:46:43.2	79.9	93.8					
MOX	e P	Z	17:46:47.6	80.8	93.1					
GRA1	e P	Z	17:46:49.6	81.0	92.6	1.0	30	5.3		
	e pP	Z	17:46:59.9							
CLZ	e P	Z	17:46:52.1	81.6	92.3	1.1	23	5.2		
BSEG	e P	Z	17:46:53.0	81.7	92.5					
STU	e P	Z	17:46:55.6	82.3	90.9					
BFO	e P	Z	17:46:58.6	82.8	90.2	1.8	41	5.4		
BUG	e P	Z	17:47:02.7	83.5	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	17:58:14.3	12.140N	91.720E	25.3	6.0			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:09:41.1	72.9	91.7					
GEC2	e P	Z	18:09:41.7	73.0	90.9	1.1	162	6.1		
CLL	e P	Z	18:09:44.3	73.5	91.1	1.3	157	5.9		
	e (S)	N	18:19:17.5							
	e L	Z	18:46:30.7			20.0	1230		5.2	
WET	e P	Z	18:09:44.9	73.6	90.3					
MOX	e P	Z	18:09:49.6	74.4	89.8					
FUR	e P	Z	18:09:50.7	74.6	88.8					
GRA1	e P	Z	18:09:51.6	74.6	89.2	1.2	210	6.0		
CLZ	e P	Z	18:09:53.9	75.2	89.2	1.2	192	6.0		
BSEG	e P	Z	18:09:54.1	75.2	89.7					
BFO	e P	Z	18:10:01.7	76.6	86.7	1.2	92	5.8		
IBBN	e P	Z	18:10:03.0	76.7	87.2					
BUG	e P	Z	18:10:04.9	77.1	86.6					
WLF	e P	Z	18:10:10.2	77.9	85.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	19:18: 2.2	1.640N	93.790E	31.4	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:30:21.1	82.3	96.4	1.1	28	5.3		
BRG	e P	Z	19:30:21.2	82.3	96.9					
WET	e P	Z	19:30:24.0	82.8	95.8					
MOX	e P	Z	19:30:28.5	83.8	95.0					
	e pP	Z	19:30:37.4							
FUR	e P	Z	19:30:28.5	83.8	94.5					
GRA1	e P	Z	19:30:30.0	83.9	94.6	2.9	185	5.8		
	e pP	Z	19:30:39.0							
CLZ	e P	Z	19:30:32.8	84.6	94.2	1.2	17	5.1		
	e pP	Z	19:30:42.2							
BSEG	e P	Z	19:30:34.1	84.8	94.3					
BFO	e P	Z	19:30:38.5	85.8	92.3	3.1	154	5.6		
BUG	e P	Z	19:30:42.9	86.5	91.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z	21:19:50.8							

BUG	e PKP	Z	21:19:51.2
CLL	e PKP	Z	21:19:49.4
CLZ	e PKP	Z	21:19:49.1
FUR	e PKP	Z	21:19:59.0
GEC2	e PKP	Z	21:19:56.3
GRA1	e PKP	Z	21:19:55.3
IBBN	e PKP	Z	21:19:48.2
WLF	e PKP	Z	21:19:57.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	21:35:59.1	4.790N	94.790E	43.8	5.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:48:08.5	80.5	94.1					
GEC2	e P	Z	21:48:08.8	80.5	93.6	1.2	75	5.6		
WET	e P	Z	21:48:11.7	81.1	93.0					
CLL	e P	Z	21:48:11.3	81.1	93.4					
MOX	e P	Z	21:48:16.1	82.0	92.2					
FUR	e P	Z	21:48:16.8	82.1	91.6					
GRA1	e P	Z	21:48:17.8	82.2	91.8	1.5	104	5.7		
	e pP	Z	21:48:30.5							
CLZ	e P	Z	21:48:20.4	82.8	91.4	1.1	37	5.5		
BSEG	e P	Z	21:48:20.9	82.9	91.6					
STU	e P	Z	21:48:24.0	83.5	90.1					
BFO	e P	Z	21:48:26.6	84.1	89.4	1.0	30	5.5		
IBBN	e P	Z	21:48:28.8	84.4	89.4					
BUG	e P	Z	21:48:30.3	84.7	88.9					
WLF	e P	Z	21:48:34.6	85.5	87.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	23:04:46.0	3.624N	95.524E	33.0N	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:17:01.7	81.9	94.3					
GEC2	e P	Z	23:17:02.2	81.9	93.8					
WET	e P	Z	23:17:05.1	82.5	93.2					
MOX	e P	Z	23:17:09.4	83.3	92.4					
FUR	e P	Z	23:17:10.0	83.5	91.9					
GRA1	e P	Z	23:17:11.1	83.6	92.0	0.8	6	4.9		
CLZ	e P	Z	23:17:13.8	84.2	91.6					
BFO	e P	Z	23:17:20.1	85.4	89.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/30	23:54:40.9	18.669N	96.110E	33.0N	4.7			SZGRF

Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:05:53.8	70.7	83.8					
GEC2	e P	Z	00:05:56.4	71.1	82.9					
CLL	e P	Z	00:05:56.6	71.3	83.2					
WET	e P	Z	00:05:59.8	71.6	82.4					
MOX	e P	Z	00:06:02.4	72.2	82.0					
BSEG	e P	Z	00:06:04.9	72.6	82.0					
CLZ	e P	Z	00:06:06.4	72.8	81.4	0.9	5	4.7		
STU	e P	Z	00:06:13.7	74.1	79.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	01:12:59.5	53.156N	151.300E	33.0N	5.0			SZGRF

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	01:24:06.9	69.8	25.1	1.0	16	5.1		
BRG	e P	Z	01:24:08.5	70.0	25.6					
CLZ	e P	Z	01:24:08.8	70.0	23.7	1.0	19	5.2		
IBBN	e P	Z	01:24:09.5	70.2	22.2					
MOX	e P	Z	01:24:13.1	70.8	24.3					
GRA1	e P	Z	01:24:19.1	71.8	23.9	1.0	24	5.3		
WET	e P	Z	01:24:19.5	71.8	24.8	0.9	8	4.8		
GEC2	e P	Z	01:24:19.4	71.9	25.2	1.0	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	02:24: 1.3	6.950N	92.890E	33.0N	5.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:35:55.1	77.6	94.2					
GEC2	e P	Z	02:35:55.3	77.7	93.6	1.1	86	5.8		
WET	e P	Z	02:35:58.3	78.2	93.0					
CLL	i P	+ Z	02:35:58.1	78.3	93.5	1.8	124	5.7		
	e S	N	02:45:53.6							
	e PPS	Z	02:46:48.2							
	e SS	E	02:51:20.5							
	e SSS	N	02:54:21.5							
	e LR	Z	03:06:39.9							
	e L	Z	03:16:54.9			20.0	10094		6.1	
MOX	e P	Z	02:36:03.0	79.1	92.3					

FUR	e P	Z	02:36:03.5	79.2	91.6				
GRA1	e P	Z	02:36:04.8	79.3	91.8	1.6	191	5.9	
CLZ	e P	Z	02:36:07.4	79.9	91.6	0.9	62	5.5	
BSEG	e P	Z	02:36:08.0	80.0	91.9				
STU	e P	Z	02:36:11.2	80.6	90.1				
BFO	e P	Z	02:36:14.0	81.2	89.4	1.0	52	5.5	
IBBN	e P	Z	02:36:16.2	81.5	89.6				
BUG	e P	Z	02:36:17.7	81.8	89.1				
WLF	e P	Z	02:36:22.2	82.6	88.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	05:54: 1.5	11.920N	91.530E	29.4	5.2			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:05:29.0	73.0	92.0					
GEC2	e P	Z	06:05:29.7	73.1	91.2	1.5	27	5.2		
CLL	e P	Z	06:05:32.2	73.6	91.4					
WET	e P	Z	06:05:32.9	73.6	90.6					
MOX	e P	Z	06:05:37.5	74.4	90.1					
FUR	e P	Z	06:05:39.0	74.7	89.1					
GRA1	e P	Z	06:05:39.4	74.7	89.5	1.6	58	5.4		
	e pP	Z	06:05:47.7							
CLZ	e P	Z	06:05:42.2	75.2	89.4	1.7	55	5.3		
BSEG	e P	Z	06:05:42.1	75.2	90.0					
	e pP	Z	06:05:50.7							
BFO	e P	Z	06:05:49.9	76.6	87.0	1.4	25	5.1		
BUG	e P	Z	06:05:53.3	77.1	86.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	06:26:23.4	5.765N	94.476E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:38:27.6	79.6	93.7					
GEC2	e P	Z	06:38:27.7	79.6	93.1					
WET	e P	Z	06:38:30.7	80.1	92.6					
CLL	e P	Z	06:38:30.6	80.2	93.0					
FUR	e P	Z	06:38:36.0	81.2	91.2					
GRA1	e P	Z	06:38:36.5	81.2	91.4	0.8	7	4.7		
CLZ	e P	Z	06:38:39.5	81.8	91.1					
IBBN	e P	Z	06:38:48.1	83.4	89.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	07:26:41.0	5.387N	95.062E	47.5	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:38:48.2	80.2	93.5					
GEC2	e P	Z	07:38:48.4	80.3	93.0					
WET	e P	Z	07:38:51.3	80.8	92.4					
CLL	e P	Z	07:38:50.9	80.8	92.8					
GRA1	e P	Z	07:38:57.7	81.9	91.2	0.7	4	4.6		
	e pP	Z	07:39:11.4							
BSEG	e P	Z	07:39:00.4	82.6	91.1					
BFO	e P	Z	07:39:06.8	83.8	88.8					
IBBN	e P	Z	07:39:08.6	84.1	88.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	08:52:18.5	4.728N	93.668E	16.6	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	09:04:24.0	79.8	94.5	0.9	19	5.0		
BRG	e P	Z	09:04:23.7	79.9	95.0					
WET	e P	Z	09:04:26.8	80.4	93.9	1.4	17	4.8		
CLL	e P	Z	09:04:26.5	80.5	94.3					
MOX	e P	Z	09:04:31.4	81.3	93.1					
GRA1	e P	Z	09:04:33.1	81.5	92.7	1.0	14	5.1		
	e pP	Z	09:04:37.9							
CLZ	e P	Z	09:04:35.8	82.1	92.3	1.0	10	4.9		
BSEG	e P	Z	09:04:36.7	82.3	92.6					
BFO	e P	Z	09:04:42.1	83.4	90.3					
IBBN	e P	Z	09:04:44.5	83.8	90.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	09:56:59.0	6.740N	93.470E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:08:55.4	78.2	93.9					
GEC2	e P	Z	10:08:56.1	78.2	93.3	2.0	135	5.6		
WET	e P	Z	10:08:59.1	78.8	92.7					
CLL	e P	Z	10:08:58.6	78.8	93.2					
MOX	e P	Z	10:09:03.7	79.6	92.0					
GRA1	e P	Z	10:09:05.2	79.9	91.5	1.4	62	5.4		
CLZ	e P	Z	10:09:08.1	80.4	91.2	1.8	80	5.5		
BSEG	e P	Z	10:09:08.5	80.5	91.5					

BFO	e	P	Z	10:09:14.5	81.7	89.1	1.3	26	5.2
IBBN	e	P	Z	10:09:16.7	82.1	89.2			
BUG	e	P	Z	10:09:18.5	82.4	88.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	10:58:21.6	4.400N	94.870E	33.0N	5.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:10:33.0	80.9	94.3					
GEC2	i P	+ Z	11:10:33.4	80.9	93.8	0.9	127	6.0		
WET	e P	Z	11:10:36.2	81.4	93.2					
CLL	e P	Z	11:10:35.8	81.5	93.6					
MOX	e P	Z	11:10:40.7	82.3	92.4					
FUR	e P	Z	11:10:41.1	82.5	91.8					
GRA1	e P	Z	11:10:42.3	82.5	92.0	1.0	84	5.9		
CLZ	e P	Z	11:10:44.9	83.1	91.6	1.1	70	5.8		
BSEG	e P	Z	11:10:45.4	83.2	91.8					
STU	e P	Z	11:10:48.3	83.8	90.3					
BFO	e P	Z	11:10:51.1	84.4	89.7	0.9	38	5.6		
IBBN	e P	Z	11:10:53.3	84.8	89.6					
BUG	e P	Z	11:10:54.8	85.1	89.1					
WLF	e P	Z	11:10:59.1	85.8	88.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	11:27:52.4	51.530N	175.690W	33.0N	5.2			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:39:29.9	74.4	3.9					
IBBN	e P	Z	11:39:39.5	76.1	2.2					
CLZ	e P	Z	11:39:42.0	76.5	3.9	0.8	24	5.4		
CLL	e P	Z	11:39:43.4	76.9	5.5					
BUG	e P	Z	11:39:43.9	77.0	1.9					
BRG	e P	Z	11:39:45.7	77.3	6.1					
MOX	e P	Z	11:39:48.0	77.6	4.6					
GRA1	e P	Z	11:39:53.9	78.6	4.4	0.9	33	5.5		
WLF	e P	Z	11:39:54.5	78.8	1.2					
WET	e P	Z	11:39:55.9	79.1	5.4					
GEC2	e P	Z	11:39:57.2	79.3	5.9	2.6	60	5.2		
STU	e P	Z	11:39:58.7	79.6	3.1					
BFO	e P	Z	11:40:01.2	80.1	2.5	0.9	9	4.7		
FUR	e P	Z	11:40:01.7	80.1	4.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	12:06:19.5	8.320N	91.150E	672.3N	5.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:16:57.8	75.5	94.7					
GEC2	i P	+ Z	12:16:58.0	75.5	93.9	1.3	133	5.9		
WET	e P	Z	12:17:01.0	76.1	93.4					
CLL	i P	+ Z	12:17:00.6	76.1	94.0	1.3	49	5.4		
	e		12:17:46.9							
	e PP	Z	12:20:02.7							
	e PPP	Z	12:21:50.0							
	e S	T	12:26:57.4							
	e PS	R	12:27:39.7							
	e SS	T	12:32:01.6							
	e SSS	R	12:35:19.0							
	e LQ	T	12:44:42.2							
	e L	Z	12:57:27.0			22.0	6356		5.9	
MOX	e P	Z	12:17:05.7	76.9	92.8					
FUR	e P	Z	12:17:06.0	77.1	91.9					
GRA1	e P	Z	12:17:07.4	77.2	92.3	1.2	70	5.7		
CLZ	e P	Z	12:17:10.1	77.8	92.1	1.2	48	5.5		
BSEG	e P	Z	12:17:10.7	77.9	92.5					
STU	e P	Z	12:17:13.6	78.5	90.5					
BFO	e P	Z	12:17:16.4	79.0	89.8	1.1	21	5.1		
IBBN	e P	Z	12:17:18.8	79.4	90.1					
BUG	e P	Z	12:17:20.2	79.7	89.6					
WLF	e P	Z	12:17:24.5	80.4	88.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	13:09:53.6	4.483N	94.399E	33.0N	4.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:22:02.6	80.5	94.6					
GEC2	e P	Z	13:22:02.8	80.5	94.1	0.8	6	4.6		
WET	e P	Z	13:22:05.7	81.1	93.5					
CLL	e P	Z	13:22:06.3	81.1	93.9					
MOX	e P	Z	13:22:10.2	82.0	92.7					
GRA1	e P	Z	13:22:11.6	82.2	92.3	0.9	8	4.8		
CLZ	e P	Z	13:22:14.7	82.8	91.9	0.8	4	4.7		
BSEG	e P	Z	13:22:15.2	82.9	92.1					
BFO	e P	Z	13:22:21.1	84.0	89.9	0.9	2	4.4		
IBBN	e P	Z	13:22:23.2	84.4	89.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	13:41:45.2	2.170N	95.191E	33.0N	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	13:54:06.1	82.8	95.0	1.5	110	5.8		
BRG	e P	Z	13:54:06.0	82.8	95.4					
WET	e P	Z	13:54:09.0	83.3	94.4					
CLL	e P	Z	13:54:08.8	83.4	94.8					
MOX	e P	Z	13:54:13.5	84.3	93.6					
FUR	e P	Z	13:54:13.6	84.3	93.1					
GRA1	e P	Z	13:54:14.9	84.4	93.2	1.3	58	5.6		
CLZ	e P	Z	13:54:17.6	85.1	92.7	1.4	36	5.4		
BSEG	e P	Z	13:54:18.3	85.2	92.9					
STU	e P	Z	13:54:20.9	85.7	91.6					
BFO	e P	Z	13:54:23.4	86.3	90.9	1.7	39	5.3		
IBBN	e P	Z	13:54:26.0	86.7	90.7					
BUG	e P	Z	13:54:27.3	87.0	90.3					
WLF	e P	Z	13:54:31.3	87.7	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	14:23:49.9	6.087N	92.633E	33.0N	4.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:35:45.5	78.1	94.3					
BRG	e P	Z	14:35:45.6	78.2	94.9					
WET	e P	Z	14:35:48.8	78.7	93.8					
MOX	e P	Z	14:35:53.7	79.6	93.1					
GRA1	e P	Z	14:35:55.3	79.8	92.6	0.7	4	4.5		
CLZ	e P	Z	14:35:57.7	80.4	92.3					
BSEG	e P	Z	14:35:58.8	80.6	92.6					
STU	e P	Z	14:36:01.7	81.1	90.9					
BFO	e P	Z	14:36:04.7	81.7	90.2					
BUG	e P	Z	14:36:08.6	82.4	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	14:38:42.5	4.590N	94.940E	33.0N	6.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:50:52.8	80.8	94.1					
GEC2	e P	Z	14:50:53.2	80.8	93.6	0.9	195	6.1		
WET	e P	Z	14:50:56.0	81.3	93.0	1.1	100	5.8		

CLL	e P	Z	14:50:55.6	81.4	93.4				
MOX	e P	Z	14:51:00.5	82.2	92.2				
FUR	e P	Z	14:51:00.9	82.4	91.7	1.1	101	5.9	
GRA1	e P	Z	14:51:02.1	82.4	91.8	1.1	167	6.1	
CLZ	e P	Z	14:51:04.7	83.0	91.4	1.2	127	6.0	
BSEG	e P	Z	14:51:05.2	83.1	91.6	1.1	150	6.1	
STU	e P	Z	14:51:08.2	83.7	90.2				
BFO	e P	Z	14:51:10.9	84.3	89.5	1.0	63	5.8	
IBBN	e P	Z	14:51:13.1	84.6	89.4				
BUG	e P	Z	14:51:14.6	85.0	89.0	1.2	139	6.1	
WLF	e P	Z	14:51:18.9	85.7	87.9				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	14:54:56.8	6.258N	91.445E	33.0N	4.6			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	15:06:47.7	77.2	95.1	0.9	8	4.8		
BRG	e P	Z	15:06:47.8	77.3	95.8					
WET	e P	Z	15:06:50.9	77.8	94.6					
CLL	e P	Z	15:06:51.0	77.9	95.1					
GRA1	e P	Z	15:06:57.3	78.9	93.4	0.8	5	4.6		
	e		15:07:35.1							
CLZ	e P	Z	15:07:00.5	79.6	93.1	0.9	5	4.5		
BSEG	e P	Z	15:07:01.5	79.7	93.5					
BUG	e P	Z	15:07:10.8	81.5	90.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	16:15:47.6	7.563N	93.576E	33.0N	5.0			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:27:40.5	77.6	93.2					
GEC2	e P	Z	16:27:40.9	77.7	92.6	1.1	22	5.2		
WET	e P	Z	16:27:43.9	78.2	92.1					
CLL	e P	Z	16:27:43.4	78.2	92.6					
MOX	e P	Z	16:27:48.4	79.1	91.4					
FUR	e P	Z	16:27:49.7	79.2	90.7					
GRA1	e P	Z	16:27:50.3	79.3	90.9	1.1	23	5.1		
CLZ	e P	Z	16:27:52.8	79.9	90.6	2.0	47	5.1		
BSEG	e P	Z	16:27:53.3	79.9	91.0					
STU	e P	Z	16:27:56.9	80.6	89.2					
BFO	e P	Z	16:27:59.9	81.2	88.5	1.1	10	4.8		
IBBN	e P	Z	16:28:01.6	81.5	88.7					
BUG	e P	Z	16:28:03.5	81.8	88.1					

WLF	e P	Z	16:28:07.9	82.6	87.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	17:29: 2.9	22.530S	178.900W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:48:44.4	147.8	16.1					
CLL	e PKPbc	Z	17:48:49.5	149.8	22.2					
	e PKPab	Z	17:48:54.7							
CLZ	e PKPbc	Z	17:48:49.8	149.8	17.2					
BRG	e PKPbc	Z	17:48:50.0	149.9	24.2					
MOX	e PKPbc	Z	17:48:51.9	150.7	20.2					
GRA1	e PKPbc	Z	17:48:54.2	151.7	20.0					
	e PKPab	Z	17:49:03.3							
GEC2	e PKPbc	Z	17:48:54.5	151.9	25.3					
STU	e PKPbc	Z	17:48:57.0	153.0	16.6					
FUR	e PKPbc	Z	17:48:57.2	153.1	21.2					
BFO	e PKPbc	Z	17:48:58.3	153.6	15.1					
	e PKPab	Z	17:49:10.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	17:47:56.1	3.054N	95.616E	33.0N	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:00:14.6	82.4	94.5					
GEC2	e P	Z	18:00:14.9	82.4	94.1	1.2	80	5.7		
WET	e P	Z	18:00:17.7	82.9	93.5					
CLL	e P	Z	18:00:17.4	83.0	93.9					
MOX	e P	Z	18:00:22.2	83.8	92.7					
FUR	e P	Z	18:00:22.6	84.0	92.2					
GRA1	e P	Z	18:00:23.7	84.0	92.3	1.2	69	5.7		
CLZ	e P	Z	18:00:26.4	84.7	91.9	1.2	38	5.5		
BSEG	e P	Z	18:00:26.9	84.8	92.0					
BFO	e P	Z	18:00:32.5	85.9	90.0	0.9	16	5.2		
IBBN	e P	Z	18:00:34.7	86.3	89.8					
BUG	e P	Z	18:00:36.1	86.6	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	18:01:56.3	5.920N	93.037E	33.0N	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	18:13:54.3	78.5	94.1	0.9	9	4.8		
BRG	e P	Z	18:13:54.1	78.5	94.7					
WET	e P	Z	18:13:57.4	79.1	93.6					
CLL	e P	Z	18:13:57.1	79.2	94.1					
MOX	e P	Z	18:14:02.1	80.0	92.9					
FUR	e P	Z	18:14:02.5	80.1	92.2					
GRA1	e P	Z	18:14:03.8	80.2	92.4	0.9	12	4.8		
CLZ	e P	Z	18:14:06.6	80.8	92.1	0.9	7	4.7		
BSEG	e P	Z	18:14:07.2	80.9	92.4					
BFO	e P	Z	18:14:13.1	82.1	90.0	0.8	2	4.4		
BUG	e P	Z	18:14:16.9	82.7	89.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	20:13:43.1	37.010N	140.790E	33.0N	5.2			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:25:49.1	79.5	38.1	1.2	29	5.1		
BRG	e P	Z	20:25:53.9	80.5	40.4					
CLL	e P	Z	20:25:54.1	80.6	39.8					
CLZ	e P	Z	20:25:57.7	81.2	38.0	1.4	28	5.1		
MOX	e P	Z	20:25:59.8	81.6	38.7					
IBBN	e P	Z	20:26:00.5	81.8	36.1					
GEC2	e P	Z	20:26:02.5	82.2	40.0	1.0	8	4.8		
WET	e P	Z	20:26:03.4	82.3	39.5					
GRA1	e P	Z	20:26:05.2	82.5	38.4	1.5	61	5.6		
FUR	e P	Z	20:26:10.9	83.7	38.3	0.8	20	5.4		
BFO	e P	Z	20:26:15.9	84.8	36.3	1.0	16	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/12/31	22:10:19.4	16.978N	88.849E	33.0N	5.1			SZGRF

Bay of Bengal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:21:11.4	67.4	90.6					
GEC2	e P	Z	22:21:12.6	67.6	89.5	0.8	9	5.1		
CLL	e P	Z	22:21:15.7	68.0	90.0					
WET	e P	Z	22:21:16.3	68.1	89.0					
MOX	e P	Z	22:21:22.0	68.9	88.7					
GRA1	e P	Z	22:21:23.2	69.2	88.0	1.0	17	5.2		
FUR	e P	Z	22:21:23.3	69.2	87.5					
CLZ	e P	Z	22:21:25.0	69.7	88.2	0.9	16	5.2		
STU	e P	Z	22:21:31.4	70.6	86.2					
BFO	e P	Z	22:21:34.5	71.2	85.4	1.0	9	4.9		

BUG e P Z 22:21:38.1 71.6 85.6

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

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

EPICENTER LINES:

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

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