

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

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

APRIL 2005 UPDATED 20.SEPTEMBER.2005

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source		
2005/04/01	00:48:51.6	1.142N	96.633E	33.0G	4.8			SZGRF		
Off west coast of northern Sumatera, Indonesia										
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:01:29.9	86.2	92.8	1.3	10	4.8		
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source		
2005/04/01	00:49:43.2	1.239S	96.637E	33.0N	5.0			SZGRF		
Southwest of Sumatera, Indonesia										
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:02:30.2	88.0	94.3	1.0	8	5.0		
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source		
2005/04/01	00:59:42.6	0.375N	99.125E	33.0N	4.8			SZGRF		
Northern Sumatera, Indonesia										
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:12:31.5	88.4	91.4	0.8	4	4.8		
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source		
2005/04/01	04:35:59.4	38.711N	40.751E	33.0N	4.1			SZGRF		
Turkey										

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:41:08.2	23.6	106.4	1.1	7	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	05:56:6.2	2.165N	96.050E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:08:38.7	85.0	92.5	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	07:20:14.3	14.305N	91.565W	33.0N	4.6	4.6		SZGRF

Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:32:57.3	87.2	288.9	1.1	6	4.6		
	e L	Z 08:08:40.6			19.9	263		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	07:36:50.0	12.802N	86.685W	33.0N	4.8			SZGRF

Nicaragua

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:49:23.9	85.3	284.3	1.1	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	10:37:47.7	2.700N	95.660E	28.7	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 10:50:09.4	82.7	94.3	1.1	37	5.5		
BRG	e P	Z 10:50:09.1	82.7	94.7					
RUE	e P	Z 10:50:10.0	82.9	94.8					
WET	e P	Z 10:50:12.1	83.2	93.7	1.0	18	5.3		
CLL	e P	Z 10:50:11.7	83.3	94.1					
RGN	e P	Z 10:50:12.5	83.4	94.7					
GUNZ	e P	Z 10:50:14.1	83.7	93.4					
WERD	e P	Z 10:50:14.1	83.7	93.4					
NOTT	e P	Z 10:50:14.9	83.8	93.2					
MOX	e P	Z 10:50:16.4	84.1	92.9					
FUR	e P	Z 10:50:16.7	84.2	92.4					

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GRA1	e P	Z	10:50:17.9	84.3	92.5	0.9	36	5.6
	e pP	Z	10:50:26.2					
CLZ	e P	Z	10:50:20.6	85.0	92.0	0.9	18	5.3
BSEG	e P	Z	10:50:21.2	85.1	92.2			
NRDL	e P	Z	10:50:21.8	85.2	91.9			
STU	e P	Z	10:50:23.7	85.6	90.9			
TNS	e P	Z	10:50:26.7	86.1	90.4			
BFO	e P	Z	10:50:26.4	86.2	90.2	0.8	15	5.2
IBBN	e P	Z	10:50:28.7	86.6	90.0			
BUG	e P	Z	10:50:30.2	86.9	89.6			
WLF	e P	Z	10:50:34.3	87.6	88.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2005/04/01

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:11:04.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	11:43:17.1	5.962N	96.139E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:55:35.1	82.2	90.0	0.8	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	14:17:12.2	8.944S	102.299E	29.7	5.3			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:30:43.1	97.5	95.0	0.9	7	5.3		
	e pP	Z 14:30:51.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	14:50:35.0	1.500N	97.500E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:03:06.5	84.8	94.1					
GEC2	e P	Z 15:03:06.8	84.8	93.7	1.2	16	5.1		
WET	e P	Z 15:03:09.5	85.3	93.1	1.0	6	4.8		

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CLL	e P	Z	15:03:09.2	85.4	93.4				
GRA1	e P	Z	15:03:15.4	86.4	91.9	0.8	12	5.1	
CLZ	e P	Z	15:03:18.0	87.0	91.3	1.1	11	4.9	
TNS	e P	Z	15:03:23.0	88.2	89.8				
BFO	e P	Z	15:03:23.8	88.3	89.6	1.2	12	5.1	
BUG	e P	Z	15:03:27.5	89.0	88.9				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	15:27:42.8	0.030N	95.020E	24.4	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	15:40:13.0	84.3	96.5	1.4	24	5.2		
BRG	e P	Z	15:40:13.1	84.4	96.9					
WET	e P	Z	15:40:15.7	84.8	95.9	1.4	21	5.2		
CLL	e P	Z	15:40:16.4	85.0	96.2					
MOX	e P	Z	15:40:20.1	85.8	95.1					
GRA1	e P	Z	15:40:21.5	86.0	94.7	1.2	20	5.1		
	e pP	Z	15:40:28.6							
CLZ	e P	Z	15:40:24.4	86.7	94.2	1.5	28	5.2		
BSEG	e P	Z	15:40:26.3	86.9	94.3					
BFO	e P	Z	15:40:29.8	87.8	92.5					
TNS	e P	Z	15:40:30.1	87.8	92.6	1.1	13	5.2		
IBBN	e P	Z	15:40:32.2	88.3	92.1					
BUG	e P	Z	15:40:33.7	88.6	91.7					
WLF	e P	Z	15:40:37.7	89.2	90.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	17:04:37.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/01	17:24:53.6	4.060N	96.710E	29.1	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:37:13.0	82.3	93.1					
GEC2	e P	Z	17:37:13.2	82.3	92.6	1.3	23	5.1		
WET	e P	Z	17:37:16.0	82.9	92.0	1.1	13	5.1		
CLL	e P	Z	17:37:16.9	82.9	92.4					
MOX	e P	Z	17:37:20.8	83.8	91.2					

FUR	e P	Z	17:37:21.3	83.9	90.7				
GRA1	e P	Z	17:37:21.6	84.0	90.8	0.9	15	5.2	
	e pP	Z	17:37:30.1						
CLZ	e P	Z	17:37:24.4	84.5	90.4	1.1	12	5.0	
BSEG	e P	Z	17:37:25.0	84.6	90.5				
STU	e P	Z	17:37:28.6	85.3	89.2				
TNS	e P	Z	17:37:30.2	85.8	88.7				
BFO	e P	Z	17:37:32.1	85.9	88.5	1.6	17	4.9	
IBBN	e P	Z	17:37:32.3	86.1	88.3				
BUG	e P	Z	17:37:34.8	86.5	87.9				

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/01 19:21:48.6 12.371N 93.091E 32.1 4.8
 Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:33:29.2	75.4	88.0	1.0	9			
	e pP	Z 19:33:38.4							

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/01 20:32:41.6 0.690N 96.840E 29.4 5.3 5.1
 Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:45:15.6	85.0	94.7	1.2	31	5.4		
BRG	e P	Z 20:45:15.5	85.0	95.1					
RUE	e P	Z 20:45:16.5	85.2	95.1					
WET	e P	Z 20:45:18.3	85.5	94.1	1.4	29	5.2		
CLL	e P	Z 20:45:18.1	85.6	94.4					
GUNZ	e P	Z 20:45:20.4	86.0	93.8					
WERD	e P	Z 20:45:20.3	86.0	93.8					
NOTT	e P	Z 20:45:21.1	86.1	93.6					
MOX	e P	Z 20:45:22.6	86.4	93.3					
FUR	e P	Z 20:45:22.7	86.5	92.8					
GRA1	e P	Z 20:45:24.0	86.6	92.9	1.3	40	5.4		
	e pP	Z 20:45:32.5							
	e L	Z 21:31:23.6			22.0	777		5.1	
CLZ	e P	Z 20:45:26.7	87.3	92.4	1.3	36	5.4		
BSEG	e P	Z 20:45:27.2	87.4	92.4					
NRDL	e P	Z 20:45:27.8	87.5	92.2					
UBBA	e P	Z 20:45:27.2	87.5	92.0					
TNS	e P	Z 20:45:32.5	88.4	90.8					
BFO	e P	Z 20:45:32.0	88.5	90.7	0.9	9	5.1		
IBBN	e P	Z 20:45:34.4	88.9	90.3					
BUG	e P	Z 20:45:35.7	89.2	89.9					

WLF e P Z 20:45:39.5 89.9 89.0

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/01

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 22:19:12.8

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/01 22:20:21.1 0.425S 96.080E 33.0N 5.1
Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:32:55.0	85.3	96.0	1.0	15	5.2		
BRG	e P	Z 22:32:55.1	85.4	96.4					
RUE	e P	Z 22:32:56.2	85.7	96.4					
WET	e P	Z 22:32:57.6	85.9	95.4	1.1	10	4.8		
CLL	e P	Z 22:32:57.7	86.0	95.7					
GUNZ	e P	Z 22:33:00.1	86.3	95.1					
WERD	e P	Z 22:32:59.9	86.4	95.1					
NOTT	e P	Z 22:33:00.6	86.4	94.9					
MOX	e P	Z 22:33:02.1	86.8	94.6					
GRA1	e P	Z 22:33:03.4	87.0	94.2	1.0	17	5.1		
CLZ	e P	Z 22:33:06.4	87.7	93.6	1.3	28	5.4		
BSEG	e P	Z 22:33:07.2	87.9	93.7					
UBBA	e P	Z 22:33:06.8	87.9	93.3					
NRDL	e P	Z 22:33:07.7	87.9	93.5					
STU	e P	Z 22:33:09.1	88.3	92.6					
TNS	e P	Z 22:33:12.1	88.8	92.1					
BFO	e P	Z 22:33:11.4	88.8	92.0	0.9	6	4.8		
IBBN	e P	Z 22:33:14.2	89.3	91.6					
BUG	e P	Z 22:33:15.5	89.6	91.2					
WLF	e P	Z 22:33:19.1	90.3	90.3					

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/02 03:37:22.6 1.760N 99.335E 33.0N 5.0
Northern Sumatera, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 03:50:07.1 87.4 90.3 1.2 15 5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	03:39:18.3	0.124S	97.788E	33.0N	5.1			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:52:04.9	87.9	92.7	1.0	9	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	06:06:52.8	77.740N	9.270E	33.0N	4.6	4.0		SZGRF

Svalbard, Norway, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 06:12:04.6	23.8	359.4	1.1	25	4.7		
NRDL	e P	Z 06:12:17.5	25.2	359.6	1.2	34	4.9		
CLZ	e P	Z 06:12:23.4	25.9	359.5	1.4	8	4.2		
BUG	e P	Z 06:12:27.0	26.3	1.0	1.5	51	4.9		
CLL	e P	Z 06:12:28.2	26.5	358.2					
UBBA	e P	Z 06:12:31.9	26.9	359.7	1.3	8	4.3		
BRG	e P	Z 06:12:32.8	26.9	357.8	1.6	19	4.6		
MOX	e P	Z 06:12:34.6	27.1	358.9	0.9	10	4.6		
WERD	e P	Z 06:12:35.7	27.3	358.6	1.5	12	4.4		
GUNZ	e P	Z 06:12:37.2	27.4	358.6	1.9	31	4.8		
TNS	e P	Z 06:12:38.1	27.5	0.4	1.2	10	4.5		
NOTT	e P	Z 06:12:42.1	27.9	358.7	1.2	4	4.1		
GRA1	e P	Z 06:12:42.6	28.1	359.1	0.9	9	4.6		
	e L	Z 06:23:03.0			20.4	392		4.0	
STU	e P	Z 06:12:51.2	29.0	0.0	0.8	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	06:34:52.5	75.897N	5.775W	33.0N	4.4			SZGRF

Greenland Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:40:32.6	27.1	351.0	1.4	10	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	12:03:52.9	45.784N	151.581E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:15:51.2	78.5	27.0	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	12:52:33.5	79.190N	5.630E	33.0N	5.4	5.0		SZGRF

Svalbard, Norway, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:57:58.0	25.3	357.9	1.0	184	5.7		
	e S	R	13:02:25.7							
NRDL	e P	Z	12:58:11.3	26.7	358.1	1.2	216	5.8		
IBBN	e P	Z	12:58:12.9	26.9	359.1	0.9	88	5.5		
CLZ	e P	Z	12:58:17.4	27.4	358.1	1.1	50	5.3		
	e S	R	13:02:56.9							
BUG	e P	Z	12:58:20.6	27.8	359.3	1.1	172	5.8		
	e S	R	13:03:01.4							
CLL	e P	Z	12:58:22.1	28.0	357.1					
UBBA	e P	Z	12:58:25.8	28.4	358.3	1.6	53	5.1		
	e S	R	13:03:13.9							
BRG	e P	Z	12:58:26.5	28.5	356.7					
	e S	R	13:03:12.4							
MOX	e P	Z	12:58:28.2	28.6	357.7	1.1	95	5.5		
	e S	R	13:03:16.4							
WERD	e P	Z	12:58:30.2	28.8	357.4	1.3	48	5.2		
GUNZ	e P	Z	12:58:31.1	28.9	357.4	1.2	58	5.3		
TNS	e P	Z	12:58:31.5	29.0	358.9	1.1	58	5.3		
	e S	R	13:03:24.1							
NOTT	e P	Z	12:58:35.9	29.5	357.5	1.3	39	5.1		
	e S	R	13:03:30.8							
WLF	e P	Z	12:58:36.2	29.5	359.8	1.1	30	5.0		
GRA1	e P	Z	12:58:36.9	29.6	357.9	1.0	65	5.4		
	e S	R	13:03:29.6							
	e L	Z	13:08:54.5			21.4	3840		5.0	
WET	e P	Z	12:58:42.5	30.2	357.3	1.2	28	5.0		
	e S	R	13:03:39.4							
STU	e P	Z	12:58:44.7	30.4	358.7	1.0	114	5.7		
	e S	R	13:03:46.6							
GEC2	e P	Z	12:58:45.5	30.5	357.0	1.1	35	5.2		
	e S	R	13:03:47.2							
BFO	e P	Z	12:58:48.3	30.9	359.0	1.1	31	5.2		
	e S	R	13:03:50.4							
FUR	e P	Z	12:58:50.6	31.1	358.0	0.9	56	5.5		
	e S	R	13:03:56.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	13:41:05.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	14:58:37.0	42.952N	146.794E	36.1	4.7			SZGRF

Off southeast coast of Hokkaido, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:10:40.6	79.5	31.4	1.2	12	4.7		
	e pP	Z 15:10:51.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	15:21:19.7	0.592N	98.207E	33.0N	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:34:05.0	87.6	91.9	1.1	15	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	16:24:11.2	1.050N	95.300E	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 16:36:37.3	83.7	95.7	1.5	40	5.4		
BRG	e P	Z 16:36:37.0	83.7	96.1					
WET	e P	Z 16:36:40.1	84.3	95.1	1.3	15	5.0		
CLL	e P	Z 16:36:40.0	84.4	95.4					
MOX	e P	Z 16:36:44.3	85.2	94.2					
GRA1	e P	Z 16:36:45.4	85.4	93.8	1.0	15	5.2		
CLZ	e P	Z 16:36:48.5	86.0	93.3	1.3	15	5.0		
STU	e P	Z 16:36:51.4	86.6	92.2					
TNS	e P	Z 16:36:54.4	87.2	91.7					
BFO	e P	Z 16:36:54.1	87.2	91.6	0.7	5	4.7		
IBBN	e P	Z 16:36:56.8	87.7	91.3					
BUG	e P	Z 16:36:58.5	88.0	90.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	17:07: 0.9	1.024N	95.900E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:19:37.2	85.8	93.4	1.1	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	20:13:34.5	52.955N	42.432W	33.0N	4.4			SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:20:06.0	32.9	296.7	1.2	6	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	22:17:28.5	2.615N	93.381E	32.6	4.8			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:29:50.5	82.9	94.3	1.2	7	4.8		
	e pP	Z 22:30:00.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/02	23:38:47.9	53.114N	43.135W	33.0N	4.7			SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:45:22.6	33.3	297.2	1.6	17	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	00:00:33.2	55.750N	37.420W	33.0N	4.8	3.9		SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z 00:06:08.1	26.3	295.6	1.4	50	5.0		
BUG	e P	Z 00:06:09.2	26.4	297.1	1.3	33	4.9		
TNS	e P	Z 00:06:20.2	27.6	299.4	1.4	19	4.7		
BFO	e P	Z 00:06:27.9	28.5	302.4	1.3	17	4.7		
MOX	e P	Z 00:06:34.0	29.2	299.3	1.3	18	4.7		
GRA1	e P	Z 00:06:36.6	29.4	300.7	1.3	37	5.1		
	e L	Z 00:16:43.0			18.7	286		3.9	
WERD	e P	Z 00:06:38.5	29.7	299.8	1.2	18	4.8		
GUNZ	e P	Z 00:06:38.9	29.7	299.9	1.2	20	4.8		
NOTT	e P	Z 00:06:39.9	29.9	300.7	1.7	15	4.5		
FUR	e P	Z 00:06:44.3	30.3	303.0	1.2	21	4.9		
WET	e P	Z 00:06:47.2	30.6	301.8	1.4	19	4.8		
GEC2	e P	Z 00:06:52.2	31.3	302.4	1.3	12	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	00:59:25.4	0.640N	97.980E	44.0	5.6	5.6		SZGRF
Northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:11:59.8	85.7	94.2	1.0	27	5.3		
	e S	T	01:22:29.8							
GEC2	e P	Z	01:12:00.0	85.8	93.9	1.1	52	5.6		
	e S	T	01:22:30.9							
RUE	e P	Z	01:12:01.0	86.0	94.2	1.0	91	5.9		
	e S	T	01:22:30.4							
WET	e P	Z	01:12:02.6	86.3	93.3	1.0	36	5.5		
	e S	T	01:22:37.4							
CLL	e P	Z	01:12:02.4	86.4	93.5	1.2	28	5.3		
	e S	T	01:22:34.2							
RGN	e L	Z	01:56:24.0			21.8	2974		5.6	
	e P	Z	01:12:03.0	86.4	94.0	1.3	92	5.7		
GUNZ	e S	T	01:22:36.4							
	e P	Z	01:12:04.7	86.7	92.9	1.1	30	5.3		
WERD	e P	Z	01:12:04.6	86.8	92.9	1.0	25	5.3		
	e S	T	01:22:42.6							
NOTT	e P	Z	01:12:05.4	86.8	92.8	1.1	17	5.1		
	e S	T	01:22:42.6							
MOX	e P	Z	01:12:06.9	87.2	92.4	1.1	24	5.2		
	e S	T	01:22:43.9							
FUR	e L	Z	01:57:03.9			21.3	2746		5.6	
	e P	Z	01:12:07.0	87.3	92.0	1.1	23	5.2		
GRA1	e S	T	01:22:43.2							
	e P	Z	01:12:08.4	87.4	92.1	1.0	48	5.6		
CLZ	e pP	Z	01:12:21.0							
	e S	T	01:22:48.7							
CLZ	e L	Z	01:57:53.3			20.8	3129		5.7	
	e P	Z	01:12:11.1	88.0	91.5	1.0	66	5.9		
BSEG	e pP	Z	01:12:23.8							
	e S	T	01:22:49.3							
BSEG	e P	Z	01:12:11.5	88.1	91.5	1.1	81	6.0		
	e pP	Z	01:12:24.2							
NRDL	e S	T	01:22:52.5							
	e P	Z	01:12:12.2	88.2	91.3	0.9	75	6.0		
UBBA	e S	T	01:22:53.8							
	e P	Z	01:12:11.4	88.2	91.2	1.5	34	5.5		
STU	e S	T	01:22:53.0							
	e P	Z	01:12:14.1	88.7	90.5	1.1	25	5.4		
TNS	e S	T	01:22:56.8							
	e P	Z	01:12:16.8	89.2	89.9	0.9	54	5.8		
BFO	e S	T	01:23:01.5							
	e L	Z	01:59:24.6			19.6	2836		5.7	
BFO	e P	Z	01:12:16.4	89.3	89.8	1.0	25	5.4		

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	e S	T	01:23:01.2						
IBBN	e P	Z	01:12:18.8	89.6	89.4	1.0	78	5.9	
	e pP	Z	01:12:31.7						
	e sP	Z	01:12:37.4						
BUG	e P	Z	01:12:20.0	89.9	89.0	0.9	46	5.7	
WLF	e P	Z	01:12:24.0	90.7	88.2	1.1	42	5.7	
	e pP	Z	01:12:36.5						
	e sP	Z	01:12:42.3						
	e S	T	01:23:17.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	01:41:38.1	14.679N	120.175E	115.5	5.4			SZGRF
Luzon, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 01:54:14.9	88.0	68.2	0.9	42	5.8		
BRG	e P	Z 01:54:17.3	88.5	68.3	1.0	23	5.4		
CLL	e P	Z 01:54:18.7	88.9	67.6	1.0	16	5.2		
BSEG	e P	Z 01:54:21.1	89.3	65.5	0.9	22	5.4		
GEC2	e P	Z 01:54:21.6	89.4	68.1	1.1	21	5.3		
WERD	e P	Z 01:54:22.3	89.6	67.0	1.3	24	5.3		
GUNZ	e P	Z 01:54:22.6	89.7	67.1	1.2	27	5.4		
WET	e P	Z 01:54:23.2	89.8	67.5	1.8	41	5.4		
MOX	e P	Z 01:54:23.8	90.0	66.5	1.2	17	5.1		
NOTT	e P	Z 01:54:24.4	90.0	66.9	2.6	145	5.7		
NRDL	e P	Z 01:54:24.4	90.1	65.3	0.9	10	5.0		
CLZ	e P	Z 01:54:25.2	90.2	65.5	2.1	95	5.7		
GRA1	e P	Z 01:54:27.1	90.6	66.2	1.2	31	5.5		
	e pP	Z 01:54:57.1							
UBBA	e P	Z 01:54:27.2	90.8	65.2	1.8	29	5.3		
FUR	e P	Z 01:54:29.5	91.2	66.3	1.1	34	5.6		
IBBN	e P	Z 01:54:30.9	91.4	63.4	1.1	23	5.4		
TNS	e P	Z 01:54:33.5	92.0	64.0	1.3	20	5.3		
BUG	e P	Z 01:54:33.7	92.1	63.1	1.2	24	5.4		
STU	e P	Z 01:54:33.9	92.2	64.7	1.0	23	5.5		
BFO	e P	Z 01:54:37.1	92.9	64.0	0.9	7	5.1		
WLF	e P	Z 01:54:41.0	93.5	62.3	1.0	19	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	03:10:58.9	2.050N	98.160E	62.9	6.1			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:23:26.0	84.8	93.2	2.2	397	6.3		
	e S	T 03:33:48.9							

GEC2	e P	Z	03:23:26.4	84.8	92.8	1.9	458	6.4
	e S	T	03:33:49.7					
RUE	e P	Z	03:23:27.0	85.0	93.2	0.9	220	6.4
	e S	T	03:33:50.4					
RGN	e P	Z	03:23:29.3	85.3	93.0	2.0	610	6.5
	e PP	Z	03:26:47.1					
WET	e P	Z	03:23:29.1	85.4	92.2	0.9	105	6.1
	e S	T	03:33:55.9					
CLL	e P	Z	03:23:28.7	85.4	92.5	1.4	96	5.8
	e S	T	03:33:54.2					
GUNZ	e P	Z	03:23:31.1	85.8	91.9	1.0	73	5.8
WERD	e P	Z	03:23:31.0	85.8	91.9	1.0	61	5.7
NOTT	e P	Z	03:23:31.9	85.9	91.7	1.1	64	5.7
	e S	T	03:34:01.4					
MOX	e P	Z	03:23:33.3	86.2	91.4	1.1	62	5.7
	e S	T	03:34:04.2					
FUR	e P	Z	03:23:33.7	86.4	91.0	0.9	91	5.9
	e S	T	03:34:04.0					
GRA1	e P	Z	03:23:34.9	86.5	91.0	0.9	133	6.1
	e pP	Z	03:23:52.3					
	e S	T	03:34:07.1					
CLZ	e P	Z	03:23:37.4	87.0	90.5	0.9	120	6.0
	e S	T	03:34:11.6					
BSEG	e P	Z	03:23:37.9	87.1	90.5	0.9	163	6.1
	e S	T	03:34:12.3					
NRDL	e P	Z	03:23:38.6	87.2	90.3	1.2	177	6.1
	e S	T	03:34:13.0					
UBBA	e P	Z	03:23:38.2	87.2	90.1	2.1	374	6.1
STU	e P	Z	03:23:40.7	87.8	89.4	0.9	80	6.1
	e S	T	03:34:19.3					
TNS	e P	Z	03:23:43.6	88.2	88.9	1.9	381	6.4
	e PP	Z	03:27:11.0					
	e S	T	03:34:24.2					
BFO	e P	Z	03:23:43.3	88.4	88.8	0.9	68	6.0
	e S	T	03:34:23.7					
HLG	e P	Z	03:23:45.7	88.5	88.6	0.8	114	6.2
	e PP	Z	03:27:14.2					
	e S	T	03:34:26.1					
IBBN	e P	Z	03:23:45.4	88.6	88.4	0.8	288	6.5
BUG	e P	Z	03:23:46.8	89.0	88.0			
	e S	T	03:34:29.7					
WLF	e P	Z	03:23:50.9	89.7	87.1	0.3	190	6.8

Date
2005/04/03

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta

Phase

Time

Dist

BAz

T[s]

A[nm]

mb

MS

ML

GRA1 e P Z 07:27:53.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/03 10:20:51.5 1.429N 96.729E 33.0N 4.4
 Off west coast of northern Sumatera, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 10:33:28.9 86.0 92.5 0.8 2 4.4

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/03

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e PKP Z 11:00:15.7

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/03 12:21:23.7 3.440N 96.060E 33.0N 5.2
 Northern Sumatera, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 BRG e P Z 12:33:43.0 82.4 94.0
 GEC2 e P Z 12:33:43.1 82.4 93.5 1.6 30 5.2
 WET e P Z 12:33:46.1 82.9 92.9 1.5 15 5.0
 GUNZ e P Z 12:33:47.4 83.4 92.6
 NOTT e P Z 12:33:48.7 83.5 92.4
 MOX e P Z 12:33:50.6 83.8 92.1
 GRA1 e P Z 12:33:51.3 84.0 91.7 1.2 12 5.0
 BSEG e P Z 12:33:55.2 84.7 91.4
 NRDL e P Z 12:33:55.0 84.8 91.1 1.8 40 5.4
 TNS e P Z 12:34:00.7 85.8 89.6
 IBBN e P Z 12:34:02.7 86.2 89.2 1.8 45 5.3

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/03 14:42:51.9 9.558N 93.155E 28.4 5.4 4.2
 Nicobar Islands, India, region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 14:54:44.8 77.5 89.9 2.0 60 5.4
 e pP Z 14:54:52.9 1.3 22
 e L Z 15:33:03.0 20.1 118 4.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	16:21:33.6	1.339S	98.050E	33.0N	4.6			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:34:25.4	89.0	93.3	1.2	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	16:25:10.4	22.779N	122.395E	15.9	4.6			SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:37:49.9	85.4	59.6	1.3	7	4.6		
	e pP	Z 16:37:54.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	16:38:57.0	1.408N	96.752E	29.2	4.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:51:34.7	86.0	92.5	1.1	5	4.5		
	e pP	Z 16:51:43.2			0.4	5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	17:57:12.7	37.920N	142.430E	42.4	5.3	4.8		SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 18:09:15.3	79.2	38.8	1.2	45	5.3		
BSEG	e P	Z 18:09:16.1	79.3	36.5	1.2	42	5.2		
BRG	e P	Z 18:09:21.5	80.4	38.8	1.1	21	5.1		
CLL	e P	Z 18:09:21.3	80.4	38.2	1.2	48	5.4		
NRDL	e P	Z 18:09:22.5	80.6	36.2	1.2	18	5.0		
CLZ	e P	Z 18:09:25.0	81.0	36.4	1.2	50	5.4		
WERD	e P	Z 18:09:26.8	81.4	37.6	1.5	26	5.1		
GUNZ	e P	Z 18:09:27.2	81.4	37.6	1.2	22	5.2		
MOX	e P	Z 18:09:27.3	81.5	37.1	1.4	27	5.2		
IBBN	e P	Z 18:09:27.6	81.5	34.6	1.2	51	5.5		
NOTT	e P	Z 18:09:30.1	81.9	37.4	1.4	38	5.3		
UBBA	e P	Z 18:09:29.2	81.9	36.0	1.6	21	5.0		
GEC2	e P	Z 18:09:30.1	82.1	38.4	1.1	17	5.1		

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WET	e P	Z	18:09:31.2	82.2	37.9	1.3	27	5.2		
GRA1	e P	Z	18:09:32.6	82.4	36.8	1.3	79	5.8		
	e pP	Z	18:09:44.9							
	e L	Z	18:50:56.7			20.3	386		4.8	
BUG	e P	Z	18:09:31.8	82.4	34.1	1.3	25	5.3		
TNS	e P	Z	18:09:35.3	83.0	34.9	1.1	12	5.1		
FUR	e P	Z	18:09:38.3	83.6	36.7	1.0	48	5.7		
STU	e P	Z	18:09:39.9	83.9	35.3	1.2	50	5.6		
WLF	e P	Z	18:09:42.3	84.3	33.2	1.6	61	5.6		
BFO	e P	Z	18:09:43.2	84.6	34.7	1.2	47	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	20:23:13.1				4.7			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:36:06.6			0.9	4	4.7		
	e pP	Z 20:36:14.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/03	22:31:43.1	1.388S	97.727E	33.0N	4.8			SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:44:34.0	88.8	93.6	0.8	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/04	04:26:46.7	1.908N	99.340E	33.0N	4.7			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:39:30.7	87.3	90.2	1.3	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/04	04:33:49.5	1.640N	97.130E	33.0N	5.5	4.9		SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:46:19.0	84.4	94.3	0.9	20	5.3		
GEC2	e P	Z 04:46:19.3	84.4	93.9	1.1	40	5.6		
	e S	T 04:56:43.4							

RUE	e P	Z	04:46:20.0	84.7	94.3	0.9	67	5.9	
WET	e P	Z	04:46:21.9	85.0	93.3	0.8	27	5.5	
	e S	T	04:56:49.7						
CLL	e P	Z	04:46:21.6	85.1	93.6	1.0	16	5.2	
GUNZ	e P	Z	04:46:24.0	85.4	93.0	0.9	18	5.2	
WERD	e P	Z	04:46:23.9	85.4	93.0	0.9	17	5.2	
NOTT	e P	Z	04:46:24.6	85.5	92.8	0.9	12	5.0	
MOX	e P	Z	04:46:26.2	85.9	92.4	0.9	13	5.1	
GRA1	e P	Z	04:46:27.7	86.1	92.1	0.8	37	5.6	
	e L	Z	05:34:54.4			20.1	440		4.9
CLZ	e P	Z	04:46:30.3	86.7	91.5	0.8	28	5.4	
BSEG	e P	Z	04:46:30.9	86.8	91.6	1.0	41	5.5	
NRDL	e P	Z	04:46:31.5	86.9	91.4	1.1	49	5.5	
UBBA	e P	Z	04:46:31.1	86.9	91.2				
STU	e S	T	04:57:11.6	87.4	90.5				
TNS	e P	Z	04:46:36.3	87.9	90.0	1.2	39	5.6	
BFO	e P	Z	04:46:36.0	88.0	89.8	0.8	16	5.4	
IBBN	e P	Z	04:46:38.2	88.3	89.5	0.8	84	6.0	
BUG	e P	Z	04:46:39.6	88.6	89.1	0.8	54	5.8	
WLF	e P	Z	04:46:43.6	89.4	88.2	1.0	36	5.6	

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

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 08:17:45.0

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/04 08:16:22.6 20.530S 177.100W 553.7 SZGRF
Fiji Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
BSEG e PKPdf Z 08:34:59.2 146.1 12.5
e PKPbc Z 08:35:01.3
HLG e PKPbc Z 08:35:01.9 146.1 8.4
RUE e PKPdf Z 08:35:00.6 147.0 18.9
e PKPbc Z 08:35:03.5
NRDL e PKPdf Z 08:35:01.8 147.6 12.6
e PKPbc Z 08:35:05.1
IBBN e PKPdf Z 08:35:02.7 148.0 8.6
e PKPbc Z 08:35:06.3
e PKPab Z 08:35:10.6
CLZ e PKPdf Z 08:35:02.9 148.2 13.3
CLL e PKPdf Z 08:35:02.2 148.2 18.2
e PKPbc Z 08:35:06.7

	e	PKPab	Z	08:35:11.2		
	e	pPKPbc	Z	08:37:12.5		
BRG	e	PKPdf	Z	08:35:02.7	148.4	20.0
	e	PKPbc	Z	08:35:07.4		
	e	PKPab	Z	08:35:12.1		
BUG	e	PKPbc	Z	08:35:08.4	148.9	7.9
MOX	e	PKPdf	Z	08:35:03.7	149.1	16.0
	e	PKPbc	Z	08:35:09.0		
WERD	e	PKPdf	Z	08:35:04.0	149.2	17.4
	e	PKPbc	Z	08:35:09.4		
	e	PKPab	Z	08:35:15.3		
GUNZ	e	PKPdf	Z	08:35:04.5	149.2	17.5
	e	PKPbc	Z	08:35:09.6		
	e	PKPab	Z	08:35:15.4		
NKC	e	PKPdf	Z	08:35:04.1	149.4	17.7
	e	PKPbc	Z	08:35:09.8		
NOTT	e	PKPbc	Z	08:35:10.9	149.8	17.4
	e	PKPab	Z	08:35:18.2		
TNS	e	PKPdf	Z	08:35:05.8	150.0	10.4
	e	PKPbc	Z	08:35:11.5		
	e	PKPab	Z	08:35:19.0		
GRA1	e	PKPdf	Z	08:35:05.5	150.1	15.8
	e	PKPbc	Z	08:35:11.6		
	e	PKPab	Z	08:35:19.2		
GRFO	e	PKPbc	Z	08:35:11.6	150.1	15.8
WET	e	PKPdf	Z	08:35:05.5	150.3	19.1
	e	PKPbc	Z	08:35:11.7		
	e	PKPab	Z	08:35:20.2		
GEC2	e	PKPdf	Z	08:35:05.7	150.4	20.8
	e	PKPbc	Z	08:35:11.9		
	e	PKPab	Z	08:35:20.5		
WLF	e	PKPdf	Z	08:35:07.2	150.8	6.2
	e	PKPbc	Z	08:35:13.6		
	e	PKPab	Z	08:35:22.6		
	e	pPKPbc	Z	08:37:22.0		
STU	e	PKPdf	Z	08:35:07.5	151.3	12.3
	e	PKPab	Z	08:35:24.3		
FUR	e	PKPbc	Z	08:35:14.4	151.6	16.6
BFO	e	PKPbc	Z	08:35:15.3	151.9	10.8
	e	PKPab	Z	08:35:26.6		
WTTA	e	PKPbc	Z	08:35:16.4	152.3	17.8

Date 2005/04/04
 Origin Time 11:05:29.3
 Lat 0.726S
 Long 97.774E
 Depth 33.0N
 mb 4.8
 Ms
 ML
 Source SZGRF
 Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 11:18:18.0 88.3 93.1 0.9 5 4.8

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/04 17:15: 7.2 19.720S 176.390W 33.0N
Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e PKPbc	Z 17:34:41.9	145.4	7.1					
BSEG	e PKPbc	Z 17:34:41.7	145.4	11.2					
CLZ	e PKPbc	Z 17:34:47.9	147.4	11.9					
CLL	e PKPbc	Z 17:34:47.8	147.6	16.6					
BRG	e PKPbc	Z 17:34:48.7	147.8	18.5					
	e PKPab	Z 17:34:51.2							
WERD	e PKPbc	Z 17:34:50.5	148.5	15.8					
GUNZ	e PKPbc	Z 17:34:51.0	148.6	15.9					
	e PKPab	Z 17:34:54.4							
NOTT	e PKPbc	Z 17:34:52.3	149.2	15.8					
GRA1	e PKPbc	Z 17:34:52.4	149.4	14.2					
	e PKPab	Z 17:34:57.8							
GEC2	e PKPbc	Z 17:34:53.6	149.8	19.1					
WLF	e PKPbc	Z 17:34:55.3	150.0	4.8					
STU	e PKPab	Z 17:35:02.6	150.6	10.8					
BFO	e PKPbc	Z 17:34:57.3	151.1	9.2					
	e PKPab	Z 17:35:05.0							

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/04 19:37: 9.4 4.500N 94.500E 51.2 5.3
Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 19:49:17.8	80.6	94.5	1.7	56	5.3		
GEC2	e P	Z 19:49:18.1	80.6	94.0	0.9	45	5.5		
RUE	e P	Z 19:49:18.7	80.8	94.6	0.7	59	5.7		
WET	e P	Z 19:49:20.9	81.1	93.4	0.9	20	5.1		
CLL	e P	Z 19:49:20.6	81.2	93.8	1.0	21	5.1		
GUNZ	e P	Z 19:49:23.0	81.5	93.2	1.0	19	5.2		
WERD	e P	Z 19:49:23.0	81.6	93.2	0.9	14	5.1		
	e pP	Z 19:49:38.2							
NOTT	e P	Z 19:49:23.8	81.6	92.9	1.0	12	5.0		
MOX	e P	Z 19:49:25.3	82.0	92.6	0.8	11	5.1		
FUR	e P	Z 19:49:25.7	82.1	92.0	0.9	24	5.3		
GRA1	e P	Z 19:49:27.0	82.2	92.2	1.0	32	5.4		
	e pP	Z 19:49:41.7							
CLZ	e P	Z 19:49:29.6	82.8	91.8	0.9	26	5.5		
BSEG	e P	Z 19:49:30.2	82.9	92.0	1.1	49	5.6		

	e pP	Z	19:49:45.0							
NRDL	e P	Z	19:49:30.9	83.0	91.7	1.5	46	5.5		
STU	e P	Z	19:49:33.0	83.5	90.6	0.8	19	5.4		
TNS	e P	Z	19:49:35.9	84.0	90.1	1.0	20	5.3		
BFO	e P	Z	19:49:35.7	84.1	89.9	0.8	15	5.3		
IBBN	e P	Z	19:49:38.0	84.5	89.8	1.5	61	5.6		
	e pP	Z	19:49:52.0							
BUG	e P	Z	19:49:39.5	84.8	89.4	0.8	22	5.4		
WLF	e P	Z	19:49:43.7	85.5	88.3	1.1	24	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/04	21:01:3.3	4.741N	96.270E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:13:26.5	83.2	90.7	0.8	3	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/05	01:39:22.5	36.570N	72.160E	110.4	4.9			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:47:13.2	43.2	86.0	1.1	24	4.8		
GEC2	e P	Z 01:47:16.5	43.5	83.7	1.5	11	4.4		
CLL	e P	Z 01:47:18.2	43.7	85.8	0.9	10	4.6		
	e PP	Z 01:49:01.5							
WET	e P	Z 01:47:19.4	44.0	83.4	1.7	14	4.6		
	e PP	Z 01:49:03.8							
GUNZ	e P	Z 01:47:22.2	44.2	84.3	0.9	10	4.7		
WERD	e P	Z 01:47:21.4	44.3	84.4	1.2	12	4.7		
NOTT	e P	Z 01:47:23.5	44.4	83.6	1.1	19	5.0		
MOX	e P	Z 01:47:25.1	44.7	84.1	1.0	10	4.7		
GRA1	e P	Z 01:47:28.3	45.0	82.9	1.3	33	5.2		
	e pP	Z 01:47:53.8							
BSEG	e P	Z 01:47:29.8	45.2	86.4	0.9	19	5.1		
	e PP	Z 01:49:18.1							
FUR	e P	Z 01:47:29.1	45.2	81.4	1.4	43	5.3		
CLZ	e P	Z 01:47:29.9	45.3	84.4	1.2	29	5.2		
	e PP	Z 01:49:19.9							
NRDL	e P	Z 01:47:31.0	45.4	84.8	0.9	13	4.9		
UBBA	e P	Z 01:47:33.0	45.7	83.1	0.8	6	4.7		
TNS	e P	Z 01:47:40.8	46.7	81.5	1.1	13	5.0		
IBBN	e P	Z 01:47:42.1	46.9	82.9	0.6	25	5.5		
BFO	e P	Z 01:47:44.6	47.1	79.7	1.1	6	4.7		
BUG	e P	Z 01:47:45.3	47.3	81.8	1.0	16	5.1		

WLF e P Z 01:47:53.8 48.3 79.4 1.0 24 5.2

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/05 02:19:27.3 3.620N 94.070E 33.0N 5.0
 Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 02:31:39.1	80.9	94.9	1.9	43	5.2		
BRG	e P	Z 02:31:38.9	81.0	95.4	1.5	17	4.8		
WET	e P	Z 02:31:42.0	81.5	94.3	1.2	10	4.8		
CLL	e P	Z 02:31:41.8	81.6	94.7	1.3	10	4.8		
GUNZ	e P	Z 02:31:44.2	81.9	94.1	0.9	7	4.8		
WERD	e P	Z 02:31:43.8	82.0	94.1	1.9	24	5.0		
NOTT	e P	Z 02:31:44.9	82.0	93.8	1.2	5	4.6		
MOX	e P	Z 02:31:46.7	82.4	93.5	2.5	43	5.1		
FUR	e P	Z 02:31:46.2	82.5	93.0					
GRA1	e P	Z 02:31:48.2	82.6	93.1	1.4	25	5.2		
CLZ	e P	Z 02:31:50.9	83.3	92.7	1.0	10	5.0		
BSEG	e P	Z 02:31:51.5	83.4	92.9	1.0	21	5.3		
NRDL	e P	Z 02:31:52.3	83.5	92.6	1.5	30	5.3		
TNS	e P	Z 02:31:57.0	84.4	91.0	0.9	8	5.0		
BFO	e P	Z 02:31:57.1	84.5	90.8	0.9	6	4.8		
BUG	e P	Z 02:32:00.7	85.2	90.2	1.1	23	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/05 02:28: 8.4 23.030S 179.480W 600.0G
 South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:46:48.0	148.2	17.3					
RUE	e PKPbc	Z 02:46:49.5	148.9	24.1					
NRDL	e PKPbc	Z 02:46:51.4	149.6	17.7					
CLL	e PKPbc	Z 02:46:52.2	150.1	23.5					
IBBN	e PKPbc	Z 02:46:52.7	150.2	13.5					
	e PKPab	Z 02:47:02.4							
CLZ	e PKPbc	Z 02:46:53.0	150.2	18.5					
	e pPKPbc	Z 02:48:58.7							
BRG	e PKPbc	Z 02:46:52.7	150.3	25.5					
MOX	e PKPbc	Z 02:46:54.4	151.1	21.5					
WERD	e PKPbc	Z 02:46:54.4	151.1	22.9					
BUG	e PKPbc	Z 02:46:54.3	151.1	12.9					
GUNZ	e PKPbc	Z 02:46:54.6	151.2	23.0					
UBBA	e PKPbc	Z 02:46:54.0	151.3	18.4					
	e PKPab	Z 02:47:06.9							
NOTT	e PKPbc	Z 02:46:55.8	151.7	23.0					

	e	PKPab	Z	02:47:09.0							
GRA1	e	PKPbc	Z	02:46:56.6	152.0	21.4					
	e	PKPab	Z	02:47:10.3							
GRFO	e	PKPbc	Z	02:46:56.6	152.0	21.4					
	e	PKPab	Z	02:47:10.3							
TNS	e	PKPbc	Z	02:46:56.9	152.1	15.7					
	e	PKPab	Z	02:47:10.1							
WET	e	PKPdf	Z	02:46:48.7	152.1	24.9					
	e	PKPbc	Z	02:46:56.7							
	e	PKPab	Z	02:47:10.5							
GEC2	e	PKPbc	Z	02:46:56.5	152.2	26.7					
WLF	e	PKPdf	Z	02:46:51.5	153.0	11.5					
	e	PKPbc	Z	02:46:59.2							
STU	e	PKPbc	Z	02:46:59.6	153.4	18.0					
FUR	e	PKPbc	Z	02:46:59.6	153.4	22.6					
	e	PKPab	Z	02:47:16.8							
BFO	e	PKPbc	Z	02:47:00.5	153.9	16.5					
	e	PKPab	Z	02:47:17.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/05	07:13:4.3	3.689N	95.146E	33.0N	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:25:27.9	83.3	92.2	1.3	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/05	08:54:45.9	1.196S	98.006E	33.0N	4.8			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:07:37.0	88.8	93.2	1.1	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/05	09:37:21.0	0.650N	96.600E	33.0N	5.0	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 09:49:52.4	84.8	94.9	1.1	19	5.2		
BRG	e P	Z 09:49:52.6	84.9	95.3	0.7	6	4.9		
WET	e P	Z 09:49:55.1	85.4	94.3	0.8	10	5.1		
CLL	e P	Z 09:49:55.4	85.5	94.6	0.6	7	5.0		
GUNZ	e P	Z 09:49:57.3	85.8	94.0	0.9	9	4.9		

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WERD	e P	Z	09:49:57.3	85.9	94.0	0.9	7	4.8		
NOTT	e P	Z	09:49:58.3	85.9	93.8	1.0	8	4.8		
MOX	e P	Z	09:49:59.5	86.3	93.5	1.1	6	4.7		
GRA1	e P	Z	09:50:00.9	86.5	93.1	0.9	20	5.2		
	e L	Z	10:35:49.5			20.2	424		4.8	
CLZ	e P	Z	09:50:03.6	87.2	92.6	1.1	14	5.0		
BSEG	e P	Z	09:50:04.7	87.3	92.6	1.2	25	5.2		
NRDL	e P	Z	09:50:04.8	87.3	92.4	1.0	10	4.9		
TNS	e P	Z	09:50:09.0	88.3	91.0					
BFO	e P	Z	09:50:09.9	88.4	90.9	0.9	10	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/05 16:00:50.7 9.037S 69.222W 33.0N 5.0
 Western Brazil

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:13:50.9	90.8	256.9	0.9	7	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/05

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:34:55.2							

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/05 22:20: 5.0 0.218N 98.022E 33.0N 4.9
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:32:51.0	87.8	92.3	0.9	5	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/06 00:28: 5.0 56.200S 146.300E 10.0N 5.0
 West of Macquarie Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:48:01.6	152.7	121.1					
	e L	Z 01:45:35.7			21.6	276		5.0	

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/06	00:49:51.2	3.642N	95.315E	33.0N	4.8			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:02:15.6	83.4	92.1	1.1	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/06	08:44:58.2	41.560N	78.780E	23.8	5.3	4.8		SZGRF

Kyrgyzstan-Xinjiang border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 08:53:07.9	44.3	75.8	0.9	20	4.9		
CLL	e P	Z 08:53:11.0	44.8	75.6	0.7	37	5.4		
GEC2	e P	Z 08:53:13.6	45.0	73.6	1.3	44	5.2		
	e PP	Z 08:54:59.6							
WERD	e P	Z 08:53:16.6	45.4	74.4	1.0	21	5.1		
WET	e P	Z 08:53:16.8	45.4	73.5	1.0	23	5.1		
GUNZ	e P	Z 08:53:16.8	45.4	74.3	1.1	33	5.3		
NOTT	e P	Z 08:53:19.2	45.7	73.6	1.0	24	5.2		
BSEG	e P	Z 08:53:19.5	45.7	76.4	1.1	41	5.4		
MOX	e P	Z 08:53:19.5	45.8	74.1	1.0	21	5.1		
NRDL	e P	Z 08:53:23.2	46.2	74.9	1.1	39	5.3		
CLZ	e P	Z 08:53:23.0	46.2	74.5	1.1	21	5.1		
GRA1	e P	Z 08:53:24.2	46.3	73.0	0.8	66	5.7		
	e pP	Z 08:53:30.8							
	e L	Z 09:16:07.8			18.2	1102		4.8	
UBBA	e P	Z 08:53:26.4	46.7	73.3					
FUR	e P	Z 08:53:27.7	46.7	71.7	1.1	75	5.8		
IBBN	e P	Z 08:53:34.2	47.6	73.2	0.8	32	5.5		
TNS	e P	Z 08:53:35.6	47.9	71.9	0.8	15	5.2		
STU	e P	Z 08:53:35.6	47.9	71.0	0.9	38	5.5		
BUG	e P	Z 08:53:38.5	48.2	72.2	1.1	29	5.3		
BFO	e P	Z 08:53:40.7	48.5	70.2	1.0	27	5.2		
WLF	e P	Z 08:53:48.0	49.4	70.1	1.0	40	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/06	11:20: 6.4	3.120S	102.900E	33.0N	5.6			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 11:33:11.1	91.8	92.8	2.1	126	5.9		
GEC2	e P	Z 11:33:11.0	91.8	92.7	1.6	87	5.8		
	e PP	Z 11:36:50.6							
RUE	e P	Z 11:33:12.1	91.9	92.6	1.0	54	5.8		

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CLL	e P	Z	11:33:13.2	92.4	92.0				
WET	e P	Z	11:33:13.8	92.4	92.0	1.4	56	5.7	
GUNZ	e P	Z	11:33:16.1	92.8	91.6	1.3	31	5.6	
WERD	e P	Z	11:33:15.3	92.8	91.5	1.3	25	5.5	
NOTT	e P	Z	11:33:16.0	92.9	91.4	1.4	26	5.5	
	e PP	Z	11:36:58.6						
MOX	e P	Z	11:33:17.5	93.2	91.0	1.6	39	5.6	
	e PP	Z	11:37:01.1						
GRA1	e P	Z	11:33:19.1	93.5	90.7	0.8	20	5.6	
	e PP	Z	11:37:03.4						
	e L	Z	12:22:35.7			21.2	275		
CLZ	e P	Z	11:33:21.7	94.0	89.9	1.0	16	5.3	
	e PP	Z	11:37:07.1						
BSEG	e P	Z	11:33:21.7	94.0	89.8	1.1	30	5.5	
	e PP	Z	11:37:07.0						
NRDL	e P	Z	11:33:22.7	94.2	89.7	1.4	42	5.6	
UBBA	e P	Z	11:33:22.0	94.2	89.7	1.5	19	5.2	
STU	e P	Z	11:33:25.2	94.8	89.3				
TNS	e P	Z	11:33:27.3	95.2	88.6	1.0	24	5.6	
BFO	e P	Z	11:33:27.1	95.4	88.7	1.2	10	5.1	

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/06 17:51:39.7 62.170N 147.270W 33.0G 5.2
 Central Alaska, United States SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	18:02:03.4	62.6	348.4					
NRDL	e P	Z	18:02:11.4	63.9	348.5	1.5	31	5.3		
BUG	e P	Z	18:02:16.8	64.6	347.2	1.1	22	5.3		
CLZ	e P	Z	18:02:17.0	64.6	348.7	1.1	16	5.2		
CLL	e P	Z	18:02:21.5	65.4	350.0	1.1	15	5.1		
MOX	e P	Z	18:02:25.2	65.9	349.4	1.0	22	5.3		
TNS	e P	Z	18:02:25.1	66.0	347.9	1.3	21	5.2		
BRG	e P	Z	18:02:25.3	66.0	350.5	1.1	21	5.3		
WERD	e P	Z	18:02:26.9	66.2	349.7	1.6	34	5.3		
GUNZ	e P	Z	18:02:27.6	66.3	349.8	1.4	26	5.3		
NOTT	e P	Z	18:02:30.6	66.8	349.7	1.1	13	5.1		
GRA1	e P	Z	18:02:30.7	66.8	349.3					
WET	e P	Z	18:02:35.8	67.6	350.1	1.2	24	5.3		
BFO	e P	Z	18:02:36.6	67.8	348.0	1.5	18	5.1		
GEC2	e P	Z	18:02:37.9	68.0	350.5	0.9	10	5.1		
FUR	e P	Z	18:02:40.4	68.3	349.4	0.9	38	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/07 02:21:19.3 0.788S 97.171E 33.0N 5.2
 SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:34:06.3	88.0	93.6	1.1	13	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	02:48:44.4	18.410S	174.320W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 03:08:19.7	145.7	7.5					
CLL	e PKPbc	Z 03:08:22.1	146.6	12.7					
BUG	e PKPbc	Z 03:08:23.3	146.9	2.8					
WERD	e PKPbc	Z 03:08:25.0	147.5	11.8					
GUNZ	e PKPbc	Z 03:08:25.2	147.6	11.8					
NOTT	e PKPbc	Z 03:08:26.8	148.2	11.6					
GRA1	e PKPbc	Z 03:08:27.6	148.4	10.1					
	e PKPab	Z 03:08:31.0							
FUR	e PKPbc	Z 03:08:31.1	149.9	10.6					
	e PKPab	Z 03:08:36.8							
BFO	e PKPbc	Z 03:08:31.5	150.0	5.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 05:52:50.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	11:46:12.6	1.490N	96.370E	33.0N	6.2	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 11:58:40.4	84.1	94.6	1.5	240	6.1		
BRG	e P	Z 11:58:40.4	84.1	94.9	1.6	150	5.9		
WET	e P	Z 11:58:42.9	84.6	94.0	1.6	164	6.1		
WERD	e P	Z 11:58:45.5	85.1	93.6	1.7	120	6.0		
NOTT	e P	Z 11:58:45.9	85.2	93.4	1.9	145	6.0		
GRA1	e P	Z 11:58:48.8	85.7	92.7	1.7	268	6.2		
	e L	Z 12:45:29.6			18.6	2416		5.6	
CLZ	e P	Z 11:58:51.6	86.4	92.2	1.6	216	6.1		
BSEG	e P	Z 11:58:52.4	86.5	92.3	1.4	243	6.2		
NRDL	e P	Z 11:58:52.7	86.5	92.1	1.6	355	6.3		

TNS	e P	Z	11:58:57.8	87.5	90.6	1.6	170	6.0
IBBN	e P	Z	11:59:00.0	88.0	90.2	1.6	415	6.5
BUG	e P	Z	11:59:00.7	88.3	89.8	1.5	262	6.3
WLF	e P	Z	11:59:04.5	89.0	88.9	1.6	254	6.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	15:23:51.8	1.108S	97.049E	33.0N	5.2			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:36:39.6	88.1	93.9	1.1	13	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	15:43:24.0	23.500S	179.070W	569.1				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 16:02:07.3	148.8	16.8					
	e PKPab	Z 16:02:13.5							
RUE	e PKPbc	Z 16:02:09.2	149.4	23.6					
CLL	e PKPab	Z 16:02:21.0	150.7	23.1					
CLZ	e pPKPbc	Z 16:04:24.9	150.7	17.9					
BRG	e PKPbc	Z 16:02:12.6	150.8	25.1					
	e PKPab	Z 16:02:22.0							
	e pPKPbc	Z 16:04:24.1							
MOX	e PKPbc	Z 16:02:14.4	151.6	21.0					
	e PKPab	Z 16:02:25.2							
WERD	e PKPbc	Z 16:02:14.4	151.6	22.4					
	e PKPab	Z 16:02:25.7							
GUNZ	e PKPbc	Z 16:02:14.5	151.7	22.5					
	e PKPab	Z 16:02:26.2							
	e pPKPbc	Z 16:04:26.1							
GRA1	e PKPbc	Z 16:02:16.2	152.6	20.9					
	e PKPab	Z 16:02:30.0							
GRFO	e PKPab	Z 16:02:30.0	152.6	20.9					
TNS	e PKPab	Z 16:02:29.8	152.6	15.1					
WET	e PKPab	Z 16:02:30.5	152.7	24.4					
GEC2	e PKPbc	Z 16:02:16.5	152.7	26.3					
WLF	e PKPbc	Z 16:02:19.1	153.5	10.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	18:59: 5.6	8.244S	73.338E	33.0N	4.6			SZGRF

Chagos Archipelago region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:11:06.8	79.0	117.0	1.4	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	19:43: 8.6	2.900N	126.400E	10.0N				NEIC-M

Northern Molucca Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 19:57:11.5	103.7	68.5					
	e PP	Z 20:01:31.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/07	20:04:37.7	29.900N	84.390E	33.0N	5.8	6.2		SZGRF

Xizang

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 20:14:08.0	55.2	84.7	1.2	144	5.9		
BRG	e P	Z 20:14:08.8	55.3	83.7	1.3	117	5.7		
GEC2	e P	Z 20:14:11.9	55.7	82.2	1.4	108	5.7		
	e S	R 20:21:56.2							
CLL	e P	Z 20:14:12.3	55.8	83.4	1.3	70	5.5		
	e PP	Z 20:16:18.4							
WET	e P	Z 20:14:15.5	56.2	81.8	1.6	141	5.7		
GUNZ	e P	Z 20:14:16.7	56.3	82.2	1.5	139	5.8		
WERD	e P	Z 20:14:16.6	56.3	82.3	1.5	102	5.6		
NOTT	e P	Z 20:14:18.6	56.6	81.7	1.5	179	5.9		
MOX	e P	Z 20:14:19.6	56.8	81.9	1.5	117	5.7		
BSEG	e P	Z 20:14:22.4	57.1	83.1	1.3	194	6.0		
	e PP	Z 20:16:29.7							
	e S	T 20:22:17.1							
GRA1	e P	Z 20:14:23.1	57.1	81.0	1.5	311	6.1		
	e PP	Z 20:16:31.4							
	e S	T 20:22:19.0							
	e L	Z 20:41:57.0			21.3	21320		6.2	
GRFO	e P	Z 20:14:23.1	57.1	81.0	1.5	270	6.0		
CLZ	e P	Z 20:14:23.9	57.4	81.8	1.4	305	6.1		
FUR	e P	Z 20:14:24.1	57.4	80.1	1.5	365	6.2		
NRDL	e P	Z 20:14:24.7	57.4	82.0	1.2	272	6.1		
	e S	T 20:22:20.3							
STU	e P	Z 20:14:32.6	58.6	79.1	1.4	116	5.7		
TNS	e P	Z 20:14:34.0	58.8	79.4	1.5	126	5.7		
IBBN	e P	Z 20:14:34.5	58.9	80.2	1.4	213	6.0		
BFO	e P	Z 20:14:36.6	59.3	78.2	1.8	65	5.4		
BUG	e P	Z 20:14:37.6	59.3	79.3	1.3	147	5.8		

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	e S	T	20:22:45.9									
WLF	e P	Z	20:14:45.3	60.4	77.5	1.6		238	5.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2005/04/07												

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GRA1	e PKP	Z 20:44:31.7									

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2005/04/07	21:41:29.8				4.1			SZGRF				
Xizang												

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GRA1	e P	Z 21:51:18.5			0.8	2	4.1				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2005/04/07	22:49:21.2			N	4.8			SZGRF				
Nicobar Islands, India, region												

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GRA1	e P	Z 23:01:38.5			1.5	11	4.8				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2005/04/07	22:50:46.2				4.7			SZGRF				
Northern Sumatera, Indonesia												

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GRA1	e P	Z 23:03:02.2			1.3	8	4.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2005/04/08	01:51:52.2	2.106N	95.115E	33.0N	5.4	5.7		SZGRF				
Off west coast of northern Sumatera, Indonesia												

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GEC2	e P	Z 02:04:13.0	82.8	95.1	1.4	33	5.4				
BRG	e P	Z 02:04:13.5	82.8	95.5							
RUE	e P	Z 02:04:14.6	83.1	95.6							
WET	e P	Z 02:04:16.3	83.3	94.5	1.5	26	5.2				

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CLL	e P	Z	02:04:16.2	83.4	94.9				
GUNZ	e P	Z	02:04:18.4	83.8	94.2				
WERD	e P	Z	02:04:18.4	83.8	94.2				
NOTT	e P	Z	02:04:19.2	83.9	94.0				
FUR	e P	Z	02:04:20.7	84.3	93.2				
GRA1	e P	Z	02:04:21.6	84.4	93.3	1.6	49	5.5	
	e S	N	02:15:06.4						
	e L	Z	02:51:12.9			19.2	2902		5.7
GRFO	e P	Z	02:04:22.0	84.4	93.3				
CLZ	e P	Z	02:04:24.9	85.1	92.8	1.3	30	5.4	
BSEG	e P	Z	02:04:25.5	85.2	93.0				
UBBA	e P	Z	02:04:25.6	85.3	92.5				
NRDL	e P	Z	02:04:26.1	85.3	92.7				
TNS	e P	Z	02:04:30.7	86.2	91.2				
HLG	e P	Z	02:04:33.2	86.7	91.0				
IBBN	e P	Z	02:04:32.9	86.7	90.8				
WLF	e P	Z	02:04:38.5	87.7	89.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/08	05:48:41.3	0.307S	96.896E	33.0N	5.8	6.1		SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	06:01:17.3	85.8	95.3	1.5	129	5.8		
BRG	e P	Z	06:01:17.3	85.8	95.7					
RUE	e P	Z	06:01:18.4	86.1	95.7					
WET	e P	Z	06:01:20.0	86.3	94.7	1.5	76	5.6		
CLL	e P	Z	06:01:20.0	86.4	95.0					
GUNZ	e P	Z	06:01:22.1	86.8	94.4					
WERD	e P	Z	06:01:22.1	86.8	94.4					
NOTT	e P	Z	06:01:22.9	86.9	94.2					
FUR	e P	Z	06:01:24.3	87.3	93.5					
GRA1	e P	Z	06:01:25.7	87.4	93.5	1.4	79	5.7		
	e S	T	06:12:12.1							
	e L	Z	06:47:07.5			20.5	6932		6.1	
GRFO	e P	Z	06:01:25.8	87.4	93.5					
CLZ	e P	Z	06:01:28.5	88.1	92.9	1.5	139	6.1		
BSEG	e P	Z	06:01:29.1	88.2	92.9					
UBBA	e P	Z	06:01:28.9	88.3	92.6					
NRDL	e P	Z	06:01:29.6	88.3	92.7					
STU	e P	Z	06:01:31.4	88.7	91.9					
TNS	e P	Z	06:01:34.2	89.2	91.4					
BFO	e P	Z	06:01:33.7	89.3	91.3	1.4	54	5.6		
IBBN	e P	Z	06:01:36.2	89.7	90.9					
WLF	e P	Z	06:01:41.2	90.7	89.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/08	11:38:18.0	23.181S	171.459E	33.0N		5.5		SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 11:57:55.3	146.1	32.2					
CLL	e PKPbc	Z 11:57:58.1	147.3	38.7					
CLZ	e PKPbc	Z 11:57:59.9	147.9	34.1					
GEC2	e PKPbc	Z 11:58:02.4	148.9	42.4					
GRA1	e PKPbc	Z 11:58:03.2	149.3	37.5					
	e PP	Z 12:01:36.2							
	e L	Z 13:08:05.5			21.3	816		5.5	
TNS	e PKPbc	Z 11:58:05.0	149.9	32.4					
BFO	e PKPbc	Z 11:58:09.2	151.5	34.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 00:33:11.6							
	e Sn	N 00:34:13.1							
NOTT	e Sn	N 00:34:35.3							
WET	e Pn	Z 00:33:15.4							
	e Sn	E 00:34:19.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/09	03:41:36.7	1.666N	97.020E	33.0N	5.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:54:14.3	86.0	92.1	2.2	84	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/09	15:16:35.7	56.768N	154.731W	33.0N	5.9	5.5		SZGRF

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z 15:27:33.3	68.1	349.8					
RGN	e P	Z 15:27:34.1	68.3	353.0					
BSEG	e P	Z 15:27:36.3	68.6	351.3	1.3	259	6.3		
IBBN	e P	Z 15:27:44.5	70.0	349.9					
NRDL	e P	Z 15:27:44.5	70.0	351.2					

RUE	e P	Z	15:27:46.5	70.3	353.3						
CLZ	e P	Z	15:27:49.0	70.7	351.4	1.1	201	6.2			
BUG	e P	Z	15:27:48.7	70.8	349.7						
CLL	e P	Z	15:27:52.7	71.5	352.9	1.1	107	5.9			
UBBA	e P	Z	15:27:53.9	71.7	351.3						
BRG	e P	Z	15:27:56.0	72.0	353.5	1.1	127	6.0			
TNS	e P	Z	15:27:57.0	72.1	350.4	0.8	100	6.0			
WERD	e P	Z	15:27:58.0	72.3	352.6						
GUNZ	e P	Z	15:27:58.5	72.3	352.6						
WLF	e P	Z	15:27:59.1	72.4	349.1						
NOTT	e P	Z	15:28:01.6	72.9	352.5						
GRA1	e P	Z	15:28:02.0	72.9	352.0	0.9	100	6.0			
	e S	N	15:37:38.3								
	e L	Z	16:02:27.8			21.7	2815		5.5		
GRFO	e P	Z	15:28:02.0	72.9	352.0						
WET	e P	Z	15:28:06.0	73.6	353.0	1.5	153	5.8			
STU	e P	Z	15:28:05.7	73.6	350.9						
GEC2	e P	Z	15:28:07.8	74.0	353.4	0.9	54	5.6			
BFO	e P	Z	15:28:07.7	74.0	350.4	1.2	70	5.6			
FUR	e P	Z	15:28:10.5	74.4	352.1	0.9	123	5.9			

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/09 19:03:31.4 0.782N 96.576E 33.0N 5.0
 Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:16:10.8	86.4	93.0	1.0	12	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/10 02:23:42.2 9.437N 93.359E 33.0N 5.2
 Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:35:36.3	77.7	89.8	1.7	30	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/10 04:12: 6.2 22.167S 172.916E 33.0N
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 04:31:41.4	145.6	29.4					
RUE	e PKPbc	Z 04:31:41.5	145.7	35.8					
BRG	e PKPbc	Z 04:31:44.9	146.9	37.5					

CLL	e	PKPbc	Z	04:31:44.9	147.0	35.7
CLZ	e	PKPbc	Z	04:31:46.8	147.4	31.0
IBBN	e	PKPbc	Z	04:31:47.7	147.8	26.4
WERD	e	PKPbc	Z	04:31:47.9	147.9	35.4
GUNZ	e	PKPbc	Z	04:31:48.2	148.0	35.5
UBBA	e	PKPbc	Z	04:31:48.8	148.4	31.3
NOTT	e	PKPbc	Z	04:31:49.5	148.5	35.7
GEC2	e	PKPbc	Z	04:31:49.6	148.6	39.2
BUG	e	PKPbc	Z	04:31:49.9	148.7	26.2
WET	e	PKPbc	Z	04:31:49.9	148.7	37.5
GRA1	e	PKPbc	Z	04:31:50.4	148.9	34.3
TNS	e	PKPbc	Z	04:31:52.2	149.4	29.2
STU	e	PKPbc	Z	04:31:54.2	150.4	31.7
WLF	e	PKPbc	Z	04:31:55.5	150.6	25.6
BFO	e	PKPbc	Z	04:31:55.5	151.1	30.6

Date 2005/04/10
Origin Time 08:04:38.1
Lat 45.290N
Long 6.441E
Depth 10.0G
mb
Ms
ML 3.7
Source SZGRF
France

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 08:05:28.7	3.3	203.7					3.3
	e Sg	N 08:06:22.1							
WLF	e Sg	E 08:06:58.2	4.4	177.3					3.8
FUR	e Sn	N 08:06:35.3	4.4	230.9					
TNS	e Pn	Z 08:05:53.8	5.1	196.0					3.7
GRA1	e Sg	E 08:07:32.3	5.5	218.1					3.9
WET	e Pn	Z 08:06:04.6	5.8	231.0					
	e Sn	N 08:07:07.0							
	e Sg	E 08:07:43.8							
GEC2	e Pn	Z 08:06:08.9	6.1	237.0					
	e Sn	E 08:07:15.4							

Date 2005/04/10
Origin Time
Lat
Long
Depth
mb
Ms
ML
Source

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 10:18:42.0							

Date 2005/04/10
Origin Time 10:29:11.6
Lat 2.450S
Long 99.160E
Depth 33.0N
mb 6.7
Ms 6.5
ML
Source SZGRF
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:42:02.8	88.9	95.0	1.5	885	6.8		
BRG	e P	Z 10:42:02.9	88.9	95.3					
RUE	e P	Z 10:42:03.8	89.1	95.2					
WET	e P	Z 10:42:05.3	89.4	94.4	1.4	564	6.6		
CLL	e P	Z 10:42:05.5	89.5	94.5					
GUNZ	e P	Z 10:42:07.5	89.9	94.0					
WERD	e P	Z 10:42:07.4	89.9	94.0					
NOTT	e P	Z 10:42:08.2	90.0	93.8					
FUR	e P	Z 10:42:09.8	90.4	93.2					
GRA1	e P	Z 10:42:10.8	90.5	93.2	1.5	970	6.9		
	e PP	Z 10:45:45.4							
	e S	N 10:53:04.2							
	e SS	E 10:59:02.6							
	e SSS	E 11:02:53.0							
	e L	Z 11:30:24.9			21.0	17990		6.5	
CLZ	e P	Z 10:42:13.5	91.2	92.5	1.5	579	6.7		
BSEG	e P	Z 10:42:14.1	91.3	92.4					
STU	e P	Z 10:42:16.4	91.8	91.6					
TNS	e P	Z 10:42:19.1	92.3	91.0					
BFO	e P	Z 10:42:18.9	92.4	91.0	1.4	226	6.3		
IBBN	e P	Z 10:42:21.0	92.8	90.4					
BUG	e P	Z 10:42:22.3	93.1	90.0					
WLF	e P	Z 10:42:25.8	93.8	89.3					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/10 10:45:47.2 2.604S 99.365E 33.0N 5.5
 Southern Sumatera, Indonesia SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:58:39.1	89.1	95.0					
BRG	e P	Z 10:58:39.7	89.1	95.2					
RUE	e P	Z 10:58:40.8	89.4	95.1					
WET	e P	Z 10:58:42.2	89.7	94.4	1.2	35	5.4		
CLL	e P	Z 10:58:41.8	89.8	94.5					
GUNZ	e P	Z 10:58:44.1	90.1	93.9					
WERD	e P	Z 10:58:44.1	90.1	93.9					
NOTT	e P	Z 10:58:44.7	90.2	93.8					
FUR	e P	Z 10:58:46.4	90.7	93.2	1.5	55	5.7		
GRA1	e P	Z 10:58:47.4	90.8	93.1	1.0	43	5.7		
CLZ	e P	Z 10:58:50.3	91.4	92.4					
BSEG	e P	Z 10:58:50.6	91.5	92.3					
UBBA	e P	Z 10:58:50.7	91.6	92.1					
STU	e P	Z 10:58:53.3	92.1	91.6					
TNS	e P	Z 10:58:55.9	92.6	91.0					
BFO	e P	Z 10:58:55.6	92.6	91.0	0.9	15	5.4		
WLF	e P	Z 10:59:02.4	94.1	89.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	10:55:21.1	0.223S	97.557E	33.0N	5.5			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:08:07.3	87.8	92.9	1.2	32	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	11:14: 5.2	4.790S	101.120E	35.0	6.4			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 11:27:10.1	91.9	95.1					
BRG	e P	Z 11:27:10.3	91.9	95.2					
RUE	e P	Z 11:27:11.4	92.2	95.0					
WET	e P	Z 11:27:12.9	92.5	94.5	1.6	312	6.4		
CLL	e P	Z 11:27:12.6	92.6	94.5					
GUNZ	e P	Z 11:27:15.0	92.9	94.0					
WERD	e P	Z 11:27:14.9	92.9	94.0					
NOTT	e P	Z 11:27:15.3	93.0	93.9					
FUR	e P	Z 11:27:17.0	93.5	93.3	1.5	247	6.4		
GRA1	e P	Z 11:27:18.2	93.6	93.2	1.6	419	6.5		
	e pP	Z 11:27:28.5							
CLZ	e P	Z 11:27:20.9	94.2	92.4	1.4	234	6.3		
BSEG	e P	Z 11:27:21.2	94.3	92.2					
UBBA	e P	Z 11:27:21.1	94.4	92.2					
STU	e P	Z 11:27:23.6	94.9	91.7					
TNS	e P	Z 11:27:26.2	95.4	91.0					
BFO	e P	Z 11:27:26.1	95.4	91.1	1.6	160	6.2		
IBBN	e P	Z 11:27:28.2	95.8	90.3					
BUG	e P	Z 11:27:29.6	96.1	90.0					
WLF	e P	Z 11:27:32.8	96.9	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	11:34:42.9	33.678N	131.123E	33.0N	4.8			SZGRF

Kyushu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:46:55.3	81.1	46.9	1.0	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	11:45: 6.1	1.222S	99.242E	26.1	5.2			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:57:52.7	88.0	94.4					
GEC2	e P	Z	11:57:52.6	88.0	94.2					
RUE	e P	Z	11:57:53.9	88.2	94.3					
WET	e P	Z	11:57:55.3	88.5	93.6	1.1	16	5.2		
CLL	e P	Z	11:57:55.3	88.6	93.7					
GUNZ	e P	Z	11:57:57.7	89.0	93.2					
WERD	e P	Z	11:57:57.5	89.0	93.1					
NOTT	e P	Z	11:57:58.1	89.1	93.0					
GRA1	e P	Z	11:58:01.0	89.7	92.3	1.0	22	5.3		
	e pP	Z	11:58:08.6							
GRFO	e P	Z	11:58:01.0	89.7	92.3					
CLZ	e P	Z	11:58:03.3	90.3	91.6	1.1	14	5.1		
STU	e P	Z	11:58:06.6	91.0	90.8					
TNS	e P	Z	11:58:09.1	91.4	90.2					
BFO	e P	Z	11:58:09.1	91.5	90.1	1.1	13	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	11:55:34.3	1.320S	99.140E	28.0	6.1			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MORC	e P	Z	12:08:09.9	52.1	106.0					
OKC	e P	Z	12:08:08.1	85.2	97.8					
ARSA	e P	Z	12:08:15.3	86.6	95.6					
PRU	e P	Z	12:08:19.4	87.5	95.0					
BSD	e P	Z	12:08:19.9	87.8	95.5					
GEC2	e P	Z	12:08:21.6	88.0	94.3					
BRG	e P	Z	12:08:21.4	88.0	94.6					
KHC	e P	Z	12:08:21.9	88.1	94.2					
KBA	e P	Z	12:08:21.4	88.1	94.0					
RUE	e P	Z	12:08:22.6	88.2	94.5					
WET	e P	Z	12:08:24.4	88.6	93.7	2.1	300	6.2		
CLL	e P	Z	12:08:24.2	88.6	93.8	2.4	353	6.2		
RGN	e P	Z	12:08:24.8	88.7	94.2					
NKC	e P	Z	12:08:26.3	88.9	93.4					
GUNZ	e P	Z	12:08:26.4	89.0	93.3					
WERD	e P	Z	12:08:26.3	89.0	93.3					
NOTT	e P	Z	12:08:27.1	89.1	93.1					
WTTA	e P	Z	12:08:27.2	89.3	92.7					
FUR	e P	Z	12:08:28.4	89.6	92.5					
GRA1	e P	Z	12:08:29.7	89.7	92.4	1.1	100	5.9		
CLZ	e P	Z	12:08:32.3	90.3	91.8					

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BSEG	e P	Z	12:08:32.6	90.4	91.7						
DAVA	e P	Z	12:08:33.4	90.5	91.4						
UBBA	e P	Z	12:08:32.6	90.5	91.5						
STU	e P	Z	12:08:35.2	91.0	90.9						
TNS	e P	Z	12:08:38.0	91.5	90.3	1.0		60		5.9	
BFO	e P	Z	12:08:37.5	91.5	90.3						
IBBN	e P	Z	12:08:39.5	91.9	89.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	13:39:49.9	0.932S	100.234E	20.9	5.7			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:52:46.8	90.1	91.4	2.0	106	5.7		
	e pP	Z 13:52:52.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	13:54:15.5	3.236S	98.685E	32.0	5.4			SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:07:15.9	90.8	94.0	0.9	19	5.4		
	e pP	Z 14:07:25.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	13:49:43.9	15.993S	174.345W	33.0N				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 14:09:11.7	144.0	7.7					
CLL	e PKPbc	Z 14:09:11.7	144.2	12.1					
UBBA	e PKPbc	Z 14:09:14.7	145.0	7.3					
WERD	e PKPbc	Z 14:09:15.6	145.1	11.2					
GUNZ	e PKPbc	Z 14:09:15.9	145.2	11.3					
TNS	e PKPbc	Z 14:09:17.7	145.7	4.8					
NOTT	e PKPbc	Z 14:09:18.0	145.8	11.1					
GRA3	e PKPbc	Z 14:09:19.6	145.9	9.7					
GRA1	e PKPbc	Z 14:09:19.8	146.0	9.6					
GRA2	e PKPbc	Z 14:09:19.8	146.0	9.8					
GRA4	e PKPbc	Z 14:09:19.8	146.1	10.0					
GRB4	e PKPbc	Z 14:09:20.1	146.2	10.2					
GRB3	e PKPbc	Z 14:09:20.5	146.3	10.7					
WLF	e PKPbc	Z 14:09:20.1	146.3	0.9					

WET	e	PKPbc	Z	14:09:19.6	146.3	12.6
GRB2	e	PKPbc	Z	14:09:20.6	146.4	10.5
GEC2	e	PKPbc	Z	14:09:19.9	146.5	14.1
GRB5	e	PKPbc	Z	14:09:21.1	146.5	10.5
GRC4	e	PKPbc	Z	14:09:21.1	146.6	10.3
GRC1	e	PKPbc	Z	14:09:21.3	146.7	10.3
GRC3	e	PKPbc	Z	14:09:21.5	146.7	10.4
GRC2	e	PKPbc	Z	14:09:21.5	146.8	10.1
STU	e	PKPbc	Z	14:09:22.0	147.1	6.3
FUR	e	PKPbc	Z	14:09:23.3	147.5	10.1
BFO	e	PKPbc	Z	14:09:23.3	147.6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	14:25:47.2	0.799S	98.440E	33.0N	5.0			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:38:38.2	88.8	92.6	1.1	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	14:47:40.4	0.500N	97.500E	33.0N	5.1			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 15:00:14.1	85.5	94.3	1.7	36	5.2		
BRG	e P	Z 15:00:14.2	85.6	94.7	1.4	16	5.0		
RUE	e P	Z 15:00:15.7	85.8	94.7	1.3	52	5.5		
WET	e P	Z 15:00:16.9	86.1	93.7	2.0	49	5.3		
CLL	e P	Z 15:00:17.0	86.2	94.0	1.3	14	4.9		
GUNZ	e P	Z 15:00:19.0	86.5	93.4	1.4	13	4.9		
WERD	e P	Z 15:00:19.0	86.6	93.4	1.3	9	4.7		
GRA1	e P	Z 15:00:22.4	87.2	92.5	1.5	51	5.4		
CLZ	e P	Z 15:00:25.0	87.8	92.0	1.8	40	5.4		
TNS	e P	Z 15:00:31.2	89.0	90.4	1.2	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	16:09:13.9				4.5			SZGRF
Nicobar Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:21:25.6			0.8	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	17:24:37.0	2.160S	99.590E	29.1	6.0	5.9		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:37:29.6	88.9	94.5	1.1	98	5.9		
	e pP	Z	17:37:38.2							
BRG	e P	Z	17:37:29.5	88.9	94.7	1.2	86	5.9		
RUE	e P	Z	17:37:30.5	89.2	94.6	1.0	299	6.5		
WET	e P	Z	17:37:32.2	89.5	93.9	1.1	77	5.8		
	e pP	Z	17:37:40.8							
CLL	e P	Z	17:37:32.0	89.6	94.0	1.1	95	5.9		
	e pP	Z	17:37:40.5							
RGN	e P	Z	17:37:32.7	89.6	94.3	1.0	123	6.1		
GUNZ	e P	Z	17:37:34.2	89.9	93.5	1.1	84	5.9		
WERD	e P	Z	17:37:34.1	89.9	93.5	1.0	68	5.8		
NOTT	e P	Z	17:37:34.9	90.0	93.3	1.8	137	5.9		
FUR	e P	Z	17:37:36.4	90.5	92.7	1.5	127	5.9		
GRA1	e P	Z	17:37:37.7	90.6	92.6	1.1	123	6.1		
	e pP	Z	17:37:46.0							
	e SKSac	R	17:48:05.3							
	e S	R	17:48:25.9							
	e SS	T	17:54:41.0							
	e SSS	T	17:57:51.4							
	e L	Z	18:26:45.6			18.8	4131		5.9	
GRFO	e P	Z	17:37:37.7	90.6	92.6	1.1	103	6.1		
CLZ	e P	Z	17:37:40.2	91.2	91.9	1.1	133	6.2		
	e pP	Z	17:37:48.8							
BSEG	e P	Z	17:37:40.7	91.3	91.9	1.8	112	5.9		
UBBA	e P	Z	17:37:40.5	91.4	91.7	1.7	109	5.9		
STU	e P	Z	17:37:43.1	91.9	91.1	1.9	170	6.1		
TNS	e P	Z	17:37:45.8	92.4	90.5	1.1	92	6.0		
BFO	e P	Z	17:37:45.5	92.5	90.5	1.3	54	5.7		
IBBN	e P	Z	17:37:47.6	92.8	89.9	1.3	65	5.9		
BUG	e P	Z	17:37:48.9	93.1	89.5	1.5	58	5.8		
WLF	e P	Z	17:37:52.7	93.9	88.8	1.5	69	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/10	17:42: 0.9	4.970S	72.360W	138.1	5.4			SZGRF

Peru-Brazil border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	17:54:27.9	86.4	258.0	1.0	94	5.9		
	e pP	Z	17:55:03.3							
BUG	e P	Z	17:54:32.9	87.5	258.8	1.3	78	5.7		
	e pP	Z	17:55:08.0							

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GRA1 e P Z 19:32:16.2 88.5 91.5 1.0 21 5.4

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/10 20:07:42.3 0.091S 99.070E 32.1 4.8
Southern Sumatera, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 20:20:32.7 88.7 91.7 0.9 6 4.8
e pP Z 20:20:42.0

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/10 20:36:18.3 0.747S 98.557E 33.0N 5.2
Southern Sumatera, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 20:49:09.5 88.8 92.5 1.3 22 5.2

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/10 22:22:18.2 36.433N 141.174E 33.0N 6.5 5.7
Near east coast of eastern Honshu, Japan

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
RGN e P Z 22:34:17.1 78.6 40.4
RUE e P Z 22:34:24.5 80.0 40.5
BSEG e P Z 22:34:25.6 80.2 38.1 1.1 503 6.4
HLG e P Z 22:34:29.1 80.9 36.4
BRG e P Z 22:34:30.3 81.2 40.4 1.0 197 6.1
CLL e P Z 22:34:30.3 81.2 39.8 1.0 485 6.6
CLZ e P Z 22:34:34.2 81.8 38.0 1.1 459 6.5
WERD e P Z 22:34:35.7 82.2 39.2
GUNZ e P Z 22:34:36.0 82.2 39.2
IBBN e P Z 22:34:36.9 82.4 36.1
NOTT e P Z 22:34:39.0 82.7 39.0
UBBA e P Z 22:34:38.3 82.8 37.6
GEC2 e P Z 22:34:38.8 82.8 40.1 1.2 176 6.2
WET e P Z 22:34:39.9 82.9 39.5 1.3 243 6.3
GRA1 e P Z 22:34:41.4 83.2 38.4 1.1 737 6.8
e PP Z 22:37:52.0
e S N 22:44:56.6
e L Z 23:16:07.7 20.1 3422 5.7
BUG e P Z 22:34:41.4 83.3 35.7
TNS e P Z 22:34:44.5 83.8 36.5 1.2 252 6.3
FUR e P Z 22:34:46.9 84.4 38.3 0.9 404 6.6

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STU	e P	Z	22:34:48.6	84.7	36.9	1.1	567	6.7
WLF	e P	Z	22:34:51.4	85.2	34.8			
BFO	e P	Z	22:34:51.9	85.4	36.3	1.1	458	6.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	01:27:26.1	23.825N	120.974E	37.6	4.8			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:39:52.5	83.8	60.0	1.1	6	4.8		
	e pP	Z 01:40:03.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	02:19:23.0	1.733S	97.709E	33.0N	5.2			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 02:32:07.7	87.4	95.7	1.6	17	4.9		
BRG	e P	Z 02:32:07.7	87.4	95.9	1.7	23	5.0		
RUE	e P	Z 02:32:09.2	87.7	95.9	1.2	44	5.7		
WET	e P	Z 02:32:10.4	87.9	95.0	1.3	12	5.1		
CLL	e P	Z 02:32:10.3	88.0	95.2	1.3	15	5.2		
GUNZ	e P	Z 02:32:12.6	88.4	94.7	1.2	11	5.1		
GRA1	e P	Z 02:32:15.1	89.1	93.8	1.9	39	5.3		
CLZ	e P	Z 02:32:18.8	89.7	93.2	1.4	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	04:28:17.5	20.300S	176.180W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 04:47:53.5	146.0	10.9					
IBBN	e PKPbc	Z 04:47:59.0	147.8	6.9					
CLZ	e PKPbc	Z 04:47:59.6	148.0	11.7					
CLL	e PKPbc	Z 04:47:59.6	148.2	16.5					
BRG	e PKPbc	Z 04:48:00.5	148.4	18.3					
	e PKPab	Z 04:48:03.8							
BUG	e PKPbc	Z 04:48:01.6	148.7	6.2					
UBBA	e PKPbc	Z 04:48:01.0	149.1	11.3					
WERD	e PKPbc	Z 04:48:02.3	149.1	15.6					
	e PKPab	Z 04:48:06.7							
GUNZ	e PKPbc	Z 04:48:02.6	149.2	15.7					
	e PKPab	Z 04:48:07.1							

NOTT	e	PKPbc	Z	04:48:04.1	149.8	15.6
TNS	e	PKPbc	Z	04:48:04.3	149.9	8.7
GRA1	e	PKPbc	Z	04:48:05.1	150.0	14.0
	e	PKPab	Z	04:48:10.8		
WET	e	PKPbc	Z	04:48:05.3	150.3	17.3
	e	PKPab	Z	04:48:11.7		
GEC2	e	PKPbc	Z	04:48:05.2	150.4	19.0
	e	PKPab	Z	04:48:12.0		
WLF	e	PKPbc	Z	04:48:06.9	150.6	4.5
STU	e	PKPbc	Z	04:48:07.7	151.2	10.5
FUR	e	PKPbc	Z	04:48:07.8	151.5	14.8
BFO	e	PKPbc	Z	04:48:08.6	151.7	9.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	06:11:16.3	2.570N	96.000E	38.2	5.8	5.7		SZGRF
Northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:23:38.2	83.0	94.6	1.0	51	5.7		
	e pP	Z	06:23:48.8							
GEC2	e P	Z	06:23:38.5	83.0	94.1	1.1	118	6.0		
	e pP	Z	06:23:49.2							
RUE	e P	Z	06:23:39.1	83.2	94.6	1.1	114	6.0		
WET	e P	Z	06:23:41.1	83.6	93.5	1.0	68	5.8		
CLL	e P	Z	06:23:40.9	83.6	93.9	1.0	36	5.5		
GUNZ	e P	Z	06:23:43.2	84.0	93.2	1.0	51	5.7		
	e pP	Z	06:23:53.7							
WERD	e P	Z	06:23:43.2	84.0	93.2	1.0	42	5.6		
NOTT	e P	Z	06:23:44.0	84.1	93.0	1.1	36	5.5		
FUR	e P	Z	06:23:45.7	84.6	92.2	0.9	62	5.8		
GRA1	e P	Z	06:23:47.0	84.7	92.3	0.9	95	6.0		
	e S	T	06:34:16.4							
	e SS	T	06:39:47.8							
	e L	Z	07:13:28.0			18.4	2875		5.7	
CLZ	e P	Z	06:23:49.6	85.3	91.9	1.0	61	5.8		
	e pP	Z	06:24:00.2							
BSEG	e P	Z	06:23:50.3	85.4	92.0	1.1	72	5.8		
	e pP	Z	06:24:00.6							
UBBA	e P	Z	06:23:50.2	85.5	91.5	1.9	90	5.7		
	e pP	Z	06:24:02.5							
STU	e P	Z	06:23:52.7	86.0	90.7	1.0	46	5.6		
TNS	e P	Z	06:23:55.7	86.5	90.2	0.9	45	5.6		
BFO	e P	Z	06:23:55.4	86.5	90.0	0.9	45	5.6		
	e pP	Z	06:24:07.3							
HLG	e P	Z	06:23:57.0	86.8	90.0	1.1	328	6.4		
	e pP	Z	06:24:08.0							
IBBN	e P	Z	06:23:57.8	86.9	89.8	1.0	126	6.0		

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BUG	e P	Z	06:23:59.1	87.2	89.4	1.1	111	5.9
	e pP	Z	06:24:11.2					
WLF	e P	Z	06:24:03.2	87.9	88.5	1.2	68	5.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	09:04:34.2	2.730N	96.677E	25.5	5.5	4.8		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:16:58.0	83.3	93.9	1.8	67	5.6		
GEC2	e P	Z	09:16:58.1	83.3	93.5	1.5	90	5.8		
WET	e P	Z	09:17:00.8	83.9	92.9	1.3	34	5.4		
CLL	e P	Z	09:17:00.6	83.9	93.2	1.8	51	5.4		
GUNZ	e P	Z	09:17:02.9	84.3	92.6	1.8	51	5.4		
WERD	e P	Z	09:17:02.8	84.3	92.6	1.4	24	5.2		
NOTT	e P	Z	09:17:03.9	84.4	92.4	1.6	42	5.4		
GRA1	e P	Z	09:17:06.6	85.0	91.7	1.3	40	5.5		
	e pP	Z	09:17:14.0							
	e S	T	09:27:37.8							
	e L	Z	10:01:51.6			21.7	466		4.8	
CLZ	e P	Z	09:17:09.4	85.6	91.2	1.4	26	5.2		
BSEG	e P	Z	09:17:10.0	85.7	91.3	1.7	91	5.6		
NRDL	e P	Z	09:17:10.6	85.7	91.1	1.7	87	5.6		
UBBA	e P	Z	09:17:10.4	85.8	90.9					
TNS	e P	Z	09:17:15.7	86.8	89.6	1.3	17	5.0		
BFO	e P	Z	09:17:17.2	86.9	89.4	0.9	11	5.0		
IBBN	e P	Z	09:17:17.4	87.2	89.2	1.3	65	5.6		
BUG	e P	Z	09:17:18.8	87.5	88.8	1.5	76	5.8		
WLF	e P	Z	09:17:22.9	88.3	87.8	1.8	93	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	09:27: 0.7	2.530N	95.930E	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	09:39:22.7	83.0	94.2	1.1	15	5.2		
BRG	e P	Z	09:39:23.2	83.0	94.6	1.1	13	5.1		
WET	e P	Z	09:39:25.5	83.5	93.6	0.8	7	5.0		
GUNZ	e P	Z	09:39:28.0	84.0	93.3	1.0	10	5.0		
GRA1	e P	Z	09:39:31.7	84.6	92.4	0.9	13	5.2		
CLZ	e P	Z	09:39:34.2	85.3	91.9	0.9	10	5.1		
BSEG	e P	Z	09:39:34.9	85.4	92.1	1.0	17	5.2		
NRDL	e P	Z	09:39:35.6	85.5	91.8	1.3	26	5.3		
IBBN	e P	Z	09:39:42.5	86.9	89.9	0.8	25	5.4		
BUG	e P	Z	09:39:43.7	87.2	89.5	1.1	23	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	12:21: 7.2	3.090N	142.230E	33.0N		6.6		SZGRF
Eastern Caroline Islands, Micronesia, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP	Z	12:39:59.5	108.7	55.1					
RUE	e PP	Z	12:40:06.1	109.6	56.1					
BRG	e PP	Z	12:40:11.7	110.4	56.7					
BSEG	e PP	Z	12:40:11.5	110.4	52.5					
CLL	e PP	Z	12:40:12.8	110.7	55.8					
HLG	e PP	Z	12:40:18.2	111.4	50.1					
NRDL	e PP	Z	12:40:19.3	111.4	52.7					
GEC2	e PP	Z	12:40:20.5	111.6	57.2					
CLZ	e PP	Z	12:40:21.2	111.7	53.2					
WET	e PP	Z	12:40:21.9	111.9	56.3					
NOTT	e PP	Z	12:40:23.1	112.0	55.4					
UBBA	e PP	Z	12:40:26.1	112.5	53.1					
GRA1	e PP	Z	12:40:27.0	112.5	54.6					
	e SP	R	12:50:11.8							
	e L	Z	13:34:20.1			19.8	15355		6.6	
IBBN	e PP	Z	12:40:27.9	112.6	50.5					
FUR	e PP	Z	12:40:33.0	113.4	55.2					
BUG	e PP	Z	12:40:33.5	113.4	50.4					
TNS	e PP	Z	12:40:35.4	113.6	51.9					
STU	e PP	Z	12:40:38.4	114.1	53.1					
BFO	e PP	Z	12:40:43.2	114.8	52.5					
WLF	e PP	Z	12:40:45.6	115.1	49.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	14:54: 7.7	7.760S	77.020W	129.4				SZGRF
Northern Peru								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	15:06:59.2	91.5	259.8	1.2	384	6.6		
	e pP	Z	15:07:32.7							
BUG	e P	Z	15:07:03.7	92.5	260.7	1.5	353	6.5		
	e pP	Z	15:07:36.9							
BFO	e P	Z	15:07:04.1	92.7	261.4	1.4	59	5.8		
	e pP	Z	15:07:37.4							
IBBN	e P	Z	15:07:05.9	93.0	261.1	1.3	243	6.5		
	e pP	Z	15:07:38.8							
TNS	e P	Z	15:07:06.4	93.1	261.6	1.2	98	6.1		
	e pP	Z	15:07:39.5							
HLG	e P	Z	15:07:07.5	93.3	261.3	1.2	571	6.9		

STU	e P	Z	15:07:07.5	93.3	262.0	2.1	358	6.4
	e pP	Z	15:07:40.9					
UBBA	e P	Z	15:07:10.9	94.1	262.8	1.9	124	5.9
	e pP	Z	15:07:43.9					
NRDL	e P	Z	15:07:12.9	94.4	263.0	1.3	141	6.1
	e pP	Z	15:07:46.0					
CLZ	e P	Z	15:07:13.1	94.5	263.2	1.4	133	6.1
	e pP	Z	15:07:46.6					
	e PP	Z	15:11:02.4					
FUR	e P	Z	15:07:13.9	94.6	263.5	1.5	129	6.1
	e pP	Z	15:07:47.1					
BSEG	e P	Z	15:07:14.0	94.7	263.3	1.1	134	6.3
	e pP	Z	15:07:47.2					
	e PP	Z	15:11:03.2					
GRA1	e P	Z	15:07:14.4	94.8	263.6	1.3	104	6.1
	e pP	Z	15:07:47.5					
NOTT	e P	Z	15:07:17.2	95.4	264.3	1.1	78	6.0
	e pP	Z	15:07:50.5					
WERD	e P	Z	15:07:17.9	95.5	264.5	1.2	85	6.1
	e pP	Z	15:07:51.1					
GUNZ	e P	Z	15:07:18.2	95.6	264.5	1.4	103	6.1
	e PP	Z	15:11:11.4					
WET	e P	Z	15:07:19.2	95.8	264.8	1.9	184	6.3
	e pP	Z	15:07:51.9					
CLL	e P	Z	15:07:20.2	96.1	265.1	1.2	67	6.0
	e pP	Z	15:07:53.3					
	e PP	Z	15:11:13.9					
GEC2	e P	Z	15:07:21.1	96.3	265.4	1.2	42	5.8
RGN	e P	Z	15:07:22.2	96.5	265.8	1.0	227	6.6
BRG	e P	Z	15:07:22.7	96.6	265.8	1.2	87	6.3
	e pP	Z	15:07:55.9					
	e PP	Z	15:11:19.2					
RUE	e P	Z	15:07:22.6	96.6	265.9	1.2	72	6.2

Date 2005/04/11 Origin Time 17:08:47.8 Lat 22.150S Long 173.420E Depth 33.0N mb Ms 6.5 ML Source SZGRF
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z 17:28:22.4	145.7	28.6					
	e SKPpdf	Z 17:31:54.1							
RUE	e PKP	Z 17:28:22.4	145.9	35.1					
	e SKPpdf	Z 17:31:54.3							
HLG	e PKPbc	Z 17:28:24.7	146.2	24.5					
	e SKPpdf	Z 17:31:56.1							
NRDL	e PKPpdf	Z 17:28:25.1	147.1	29.3					
	e PKPbc	Z 17:28:26.7							

	e SKPdf	Z	17:31:57.6					
CLL	e PKPdf	Z	17:28:25.7	147.1	34.9			
	e PKPbc	Z	17:28:27.1					
	e SKPdf	Z	17:31:57.4					
BRG	e PKPdf	Z	17:28:24.7	147.1	36.7			
	e PKPbc	Z	17:28:27.2					
	e SKPdf	Z	17:31:57.5					
CLZ	e PKPdf	Z	17:28:25.8	147.5	30.2			
	e PKPbc	Z	17:28:28.3					
	e SKPdf	Z	17:31:56.8					
IBBN	e PKPdf	Z	17:28:27.3	147.9	25.6			
	e SKPdf	Z	17:31:59.7					
WERD	e PKPdf	Z	17:28:26.6	148.1	34.5			
	e PKPbc	Z	17:28:30.0					
	e SKPdf	Z	17:31:59.0					
GUNZ	e PKPdf	Z	17:28:26.2	148.1	34.7			
	e PKPbc	Z	17:28:30.2					
	e SKPdf	Z	17:31:59.4					
UBBA	e PKPdf	Z	17:28:26.5	148.5	30.4			
	e PKPbc	Z	17:28:30.6					
	e SKPdf	Z	17:32:00.6					
NOTT	e PKPdf	Z	17:28:27.3	148.7	34.8			
	e PKPbc	Z	17:28:31.5					
	e SKPdf	Z	17:32:00.0					
BUG	e PKPdf	Z	17:28:28.6	148.8	25.3			
	e PKPbc	Z	17:28:32.1					
	e SKPdf	Z	17:32:01.8					
GEC2	e PKPdf	Z	17:28:27.8	148.8	38.3			
	e PKPbc	Z	17:28:31.7					
	e SKPdf	Z	17:32:00.5					
WET	e PKPdf	Z	17:28:28.1	148.9	36.7			
	e PKPbc	Z	17:28:32.1					
	e SKPdf	Z	17:32:00.5					
GRA1	e PKPdf	Z	17:28:28.8	149.1	33.5			
	e PKPbc	Z	17:28:32.9					
	e SKPdf	Z	17:32:02.9					
	e PP	Z	17:32:17.3					
	e SKKSac	R	17:38:44.1					
	e SS	T	17:51:14.1					
	e SSS	T	17:56:48.8					
	e L	Z	18:34:31.2			21.5	7915	6.5
TNS	e PKPdf	Z	17:28:29.8	149.6	28.3			
	e PKPbc	Z	17:28:34.3					
	e SKPdf	Z	17:32:02.7					
FUR	e PKPdf	Z	17:28:30.8	150.3	35.0			
	e SKPdf	Z	17:32:04.5					
STU	e PKPdf	Z	17:28:31.4	150.6	30.8			
	e PKPbc	Z	17:28:36.2					
	e SKPdf	Z	17:32:05.3					

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WLF	e PKPdf	Z	17:28:31.9	150.7	24.7
	e PKPbc	Z	17:28:37.6		
	e SKPdf	Z	17:32:06.0		
BFO	e PKPdf	Z	17:28:31.9	151.2	29.7
	e PKPbc	Z	17:28:38.0		
	e SKPdf	Z	17:32:06.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 17:36:50.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	17:42:32.3	0.989S	96.426E	33.0N	4.9			SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:55:17.8	87.7	94.3	1.1	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	18:19:14.8	1.761S	99.623E	26.8	4.9			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:32:14.6	90.3	92.4	1.0	8	4.9		
	e pP	Z 18:32:22.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/11	18:52:0.9	1.700S	98.600E	33.0N	5.4			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:04:47.6	87.9	95.0	1.6	82	5.8		
BRG	e P	Z 19:04:47.6	88.0	95.2	1.6	49	5.6		
RUE	e P	Z 19:04:49.1	88.2	95.1	1.3	158	6.2		
WET	e P	Z 19:04:50.0	88.5	94.3	1.2	28	5.5		
CLL	e P	Z 19:04:50.3	88.6	94.5	1.1	33	5.5		
GUNZ	e P	Z 19:04:52.4	88.9	94.0	1.3	35	5.4		
WERD	e P	Z 19:04:52.3	89.0	93.9	1.1	18	5.2		
NOTT	e P	Z 19:04:52.9	89.0	93.8	1.1	12	5.0		

FUR	e P	Z	19:04:54.7	89.5	93.1	1.1	28	5.4
GRA1	e P	Z	19:04:55.8	89.6	93.1	1.2	39	5.5
CLZ	e P	Z	19:04:58.1	90.2	92.4	1.3	34	5.4
BSEG	e P	Z	19:04:58.9	90.4	92.4	1.5	26	5.2
UBBA	e P	Z	19:04:59.0	90.4	92.2	1.4	15	5.0
STU	e P	Z	19:05:01.6	90.9	91.6	0.9	22	5.5
TNS	e P	Z	19:05:04.0	91.4	91.0	1.0	25	5.5
BFO	e P	Z	19:05:03.5	91.4	90.9	1.0	12	5.2
BUG	e P	Z	19:05:07.3	92.2	90.0	0.9	10	5.2
WLF	e P	Z	19:05:11.1	92.9	89.2	1.4	29	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	00:31:54.2	43.284N	13.619E	10.0G			3.6	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	00:32:45.6	3.3	191.9					3.5
KBA	e Pn	Z	00:32:52.9	3.8	177.0					3.2
	e Sn	E	00:33:37.4							
ARSA	e Pn	Z	00:32:58.1	4.2	199.4					
	e Sn	E	00:33:45.8							
WTTA	e Pn	Z	00:32:58.6	4.2	160.0					
	e Sn	E	00:33:39.1							
MOA	e Pn	Z	00:33:03.8	4.6	185.9					
	e Sn	E	00:33:56.0							
DAVA	e Pn	Z	00:33:05.7	4.8	145.3					
	e Sn	N	00:34:01.1							
GEC2	e Pn	Z	00:33:15.9	5.6	180.6					
	e Sn	N	00:34:18.9							
WET	e Pn	Z	00:33:19.8	5.9	174.7					3.5
	e Sn	E	00:34:24.1							
GRA1	e Sn	N	00:34:42.4	6.6	164.7					3.9
GUNZ	e Pn	Z	00:33:37.8	7.1	172.4					3.7
WERD	e Pn	Z	00:33:39.1	7.2	172.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	01:00:47.7	1.768N	97.230E	32.0	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:13:25.5	86.1	91.9	1.2	10	4.8		
	e pP	Z	01:13:34.8							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	01:24:56.2	2.148S	98.426E	33.0N	4.7			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:37:51.9	89.8	93.5	1.1	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	01:27:59.0	2.620S	96.190E	33.0N	5.1			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 01:40:40.4	87.0	97.4	1.7	50	5.4		
BRG	e P	Z 01:40:40.1	87.2	97.7	1.5	25	5.1		
WET	e P	Z 01:40:42.7	87.6	96.8	1.7	24	5.3		
CLL	e P	Z 01:40:43.1	87.8	97.0	1.1	8	5.0		
GUNZ	e P	Z 01:40:44.7	88.1	96.4	1.1	9	5.0		
WERD	e P	Z 01:40:45.0	88.1	96.4	1.2	10	5.0		
GRA1	e P	Z 01:40:48.4	88.7	95.5	1.0	14	5.2		
CLZ	e P	Z 01:40:51.6	89.5	94.9	1.5	23	5.2		
UBBA	e P	Z 01:40:51.6	89.6	94.6					
BSEG	e P	Z 01:40:53.0	89.7	94.9					
NRDL	e P	Z 01:40:52.1	89.7	94.7	1.6	33	5.3		
STU	e P	Z 01:40:54.3	90.0	94.0	0.6	9	5.2		
BFO	e P	Z 01:40:55.8	90.5	93.3	0.9	5	4.8		
TNS	e P	Z 01:40:56.8	90.6	93.4	1.0	10	5.1		
BUG	e P	Z 01:41:00.4	91.4	92.5	1.1	12	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	02:40:29.6	13.980N	90.170W	95.3		4.9		SZGRF

Near coast of Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 02:52:46.9	83.4	283.9					
TNS	e P	Z 02:52:53.5	84.7	285.5	1.3	50	5.6		
BSEG	e P	Z 02:52:53.9	84.8	286.6	1.1	51	5.7		
NRDL	e P	Z 02:52:55.4	85.1	286.6	1.1	35	5.5		
BFO	e P	Z 02:52:55.3	85.1	285.6	1.3	28	5.3		
CLZ	e P	Z 02:52:57.2	85.4	286.8	1.1	41	5.5		
UBBA	e P	Z 02:52:56.6	85.5	286.6	1.5	27	5.1		
STU	e P	Z 02:52:57.6	85.5	286.2	0.9	20	5.2		
GRA1	e P	Z 02:53:03.1	86.5	287.6	1.2	58	5.6		
	e pP	Z 02:53:28.1							
	e S	E 03:03:32.7							
	e L	Z 03:27:56.1			21.3	518		4.9	

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WERD	e P	Z	02:53:04.8	87.0	288.4	1.2	28	5.3
GUNZ	e P	Z	02:53:05.1	87.0	288.4	1.2	35	5.4
CLL	e P	Z	02:53:05.2	87.1	288.9	1.2	18	5.1
WET	e P	Z	02:53:08.9	87.7	288.9	1.3	37	5.6
BRG	e P	Z	02:53:08.6	87.8	289.6	1.5	16	5.1
GEC2	e P	Z	02:53:11.4	88.4	289.5	1.3	14	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	03:54:43.1	3.152S	99.436E	39.1	5.4			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:07:36.2	89.6	95.3	1.7	70	5.6		
BRG	e P	Z 04:07:36.1	89.6	95.5	1.8	66	5.6		
RUE	e P	Z 04:07:37.3	89.9	95.4	1.0	61	5.9		
WET	e P	Z 04:07:38.7	90.1	94.7	1.7	48	5.5		
CLL	e P	Z 04:07:38.6	90.2	94.8	1.3	22	5.3		
GUNZ	e P	Z 04:07:40.9	90.6	94.2	1.3	22	5.3		
WERD	e P	Z 04:07:40.7	90.6	94.2	1.5	20	5.2		
NOTT	e P	Z 04:07:41.2	90.7	94.1	3.0	68	5.5		
GRA1	e P	Z 04:07:44.5	91.2	93.4	1.0	27	5.5		
	e pP	Z 04:07:55.7							
CLZ	e P	Z 04:07:46.7	91.9	92.7	1.5	30	5.5		
UBBA	e P	Z 04:07:47.3	92.1	92.4	1.0	7	5.0		
NRDL	e P	Z 04:07:48.1	92.1	92.5	1.4	22	5.4		
TNS	e P	Z 04:07:52.6	93.1	91.3	1.0	21	5.4		
BFO	e P	Z 04:07:51.8	93.1	91.3	1.1	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	04:17:32.7	2.029S	99.195E	33.0N	4.9			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:30:30.3	90.2	92.9	1.3	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	04:29:59.4	2.790S	99.410E	33.0G	5.4			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:42:51.7	89.3	95.1	1.6	59	5.6		
BRG	e P	Z 04:42:51.3	89.3	95.3	1.6	42	5.4		
RUE	e P	Z 04:42:53.1	89.6	95.2	0.8	45	5.7		

WET	e P	Z	04:42:54.1	89.8	94.4	1.4	28	5.3
CLL	e P	Z	04:42:54.7	89.9	94.5	1.5	31	5.3
GUNZ	e P	Z	04:42:56.4	90.3	94.0	1.4	21	5.2
WERD	e P	Z	04:42:56.3	90.3	94.0	1.4	20	5.1
GRA1	e P	Z	04:42:59.8	91.0	93.2	1.4	42	5.6
CLZ	e P	Z	04:43:02.2	91.6	92.5	1.6	44	5.5
BSEG	e P	Z	04:43:02.9	91.7	92.4	1.5	21	5.2
NRDL	e P	Z	04:43:03.6	91.8	92.3	1.4	30	5.4
UBBA	e P	Z	04:43:03.1	91.8	92.2	1.6	17	5.1
STU	e P	Z	04:43:05.6	92.2	91.7	1.3	21	5.3
TNS	e P	Z	04:43:08.1	92.8	91.0	1.1	19	5.4
BFO	e P	Z	04:43:07.7	92.8	91.0	1.3	14	5.2
BUG	e P	Z	04:43:10.9	93.5	90.1	1.2	20	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	13:55:47.7	11.311S	13.641W	33.0N	4.7	4.7		SZGRF

Ascension Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:06:23.5	64.8	207.1	1.1	5	4.7		
	e L	Z 14:32:43.4			21.1	539		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/12	17:26:59.7	17.050S	176.642W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z 17:46:33.7	145.8	14.1					
WERD	e PKPbc	Z 17:46:34.4	145.8	15.4					
GUNZ	e PKPbc	Z 17:46:34.6	145.9	15.4					
TNS	e PKPbc	Z 17:46:37.2	146.6	8.9					
GRA1	e PKPbc	Z 17:46:37.7	146.7	13.8					
GEC2	e PKPbc	Z 17:46:38.5	147.1	18.4					
BFO	e PKPbc	Z 17:46:41.9	148.5	9.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/13	02:59:28.7	3.534S	99.760E	28.7	5.4			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:12:25.8	90.1	95.3	1.0	18	5.3		
BRG	e P	Z 03:12:25.7	90.1	95.5	0.9	20	5.4		
RUE	e P	Z 03:12:27.0	90.4	95.3	1.5	121	6.0		

WET	e P	Z	03:12:28.4	90.6	94.7	0.9	16	5.4
CLL	e P	Z	03:12:28.4	90.7	94.7	1.2	20	5.3
GUNZ	e P	Z	03:12:30.5	91.1	94.2	1.0	18	5.3
WERD	e P	Z	03:12:30.4	91.1	94.2	0.9	14	5.3
MOX	e P	Z	03:12:32.5	91.6	93.7	1.1	14	5.2
FUR	e P	Z	03:12:33.0	91.6	93.5	0.9	18	5.4
GRA1	e P	Z	03:12:33.9	91.7	93.4	1.0	26	5.5
	e pP	Z	03:12:42.3					
CLZ	e P	Z	03:12:36.6	92.4	92.7	1.1	14	5.3
BSEG	e P	Z	03:12:37.1	92.5	92.5	1.4	15	5.2
NRDL	e P	Z	03:12:37.5	92.6	92.4	1.5	27	5.5
TNS	e P	Z	03:12:42.0	93.6	91.3	0.9	17	5.4
BFO	e P	Z	03:12:41.6	93.6	91.3	1.0	10	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/13	03:12:32.4	3.640N	94.030E	29.7	5.1			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:24:44.4	80.9	94.9	1.7	52	5.3		
BRG	e P	Z	03:24:44.6	80.9	95.4	1.8	28	5.0		
WET	e P	Z	03:24:47.3	81.5	94.3	1.7	32	5.1		
GUNZ	e P	Z	03:24:49.7	81.9	94.1	1.2	11	4.9		
WERD	e P	Z	03:24:49.7	81.9	94.1	1.2	9	4.8		
MOX	e P	Z	03:24:52.0	82.4	93.6	1.6	24	5.1		
GRA1	e P	Z	03:24:53.4	82.6	93.1	1.1	20	5.3		
	e pP	Z	03:25:02.0							
CLZ	e P	Z	03:24:56.4	83.2	92.7	1.4	14	5.0		
BSEG	e P	Z	03:24:57.3	83.4	92.9	1.2	16	5.1		
NRDL	e P	Z	03:24:57.7	83.4	92.6	1.5	18	5.1		
TNS	e P	Z	03:25:02.5	84.4	91.1	1.1	10	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/13	03:58:16.5	29.830S	177.050W	53.0N		5.0		SZGRF

Kermadec Islands, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	04:18:05.0	155.3	15.4					
	e PKPab	Z	04:18:29.0							
NRDL	e PKPdf	Z	04:18:06.8	156.7	15.9					
	e PKPab	Z	04:18:34.8							
IBBN	e PKPab	Z	04:18:37.4	157.2	10.8					
CLL	e PKPab	Z	04:18:36.7	157.3	23.1					
CLZ	e PKPdf	Z	04:18:07.7	157.3	16.9					
	e PKPab	Z	04:18:37.7							

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BRG	e PKPdf	Z	04:18:07.5	157.4	25.5				
	e PKPab	Z	04:18:37.6						
BUG	e PKPab	Z	04:18:40.9	158.2	10.1				
MOX	e PKPdf	Z	04:18:08.2	158.2	20.6				
	e PKPab	Z	04:18:41.1						
WERD	e PKPab	Z	04:18:41.4	158.2	22.3				
GUNZ	e PKPdf	Z	04:18:09.4	158.3	22.5				
	e PKPab	Z	04:18:41.8						
UBBA	e PKPab	Z	04:18:41.2	158.4	16.8				
GRA1	e PKPab	Z	04:18:46.0	159.2	20.6				
	e L	Z	05:31:26.1			21.5	238	5.0	
TNS	e PKPdf	Z	04:18:09.9	159.2	13.5				
	e PKPab	Z	04:18:45.6						
WET	e PKPdf	Z	04:18:09.8	159.3	25.0				
	e PKPab	Z	04:18:46.3						
GEC2	e PKPab	Z	04:18:46.0	159.3	27.2				
WLF	e PKPdf	Z	04:18:11.4	160.0	8.2				
	e PKPab	Z	04:18:49.8						
STU	e PKPdf	Z	04:18:11.2	160.5	16.4				
	e PKPab	Z	04:18:51.0						
FUR	e PKPab	Z	04:18:51.9	160.6	22.2				
BFO	e PKPab	Z	04:18:53.5	161.0	14.5				

Date 2005/04/13
 Origin Time 09:50:23.9
 Lat 31.750N
 Long 143.000E
 Depth 33.0N
 mb 5.1
 Ms
 ML
 Source SZGRF
 Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:02:57.9	85.1	38.9	0.6	13	5.3		
BRG	e P	Z	10:03:02.0	86.0	41.4	0.9	7	4.8		
CLL	e P	Z	10:03:02.2	86.0	40.8	1.1	22	5.2		
NRDL	e P	Z	10:03:02.7	86.3	38.6	1.1	9	4.8		
CLZ	e P	Z	10:03:06.0	86.7	38.8	1.0	16	5.1		
GUNZ	e P	Z	10:03:07.6	87.0	40.2	1.9	29	5.1		
MOX	e P	Z	10:03:07.3	87.1	39.7	1.0	5	4.6		
GEC2	e P	Z	10:03:10.3	87.6	41.2	0.9	5	4.8		
GRA1	e P	Z	10:03:12.2	88.0	39.4	0.6	11	5.4		
BUG	e P	Z	10:03:13.1	88.2	36.4	0.7	11	5.3		
BFO	e P	Z	10:03:22.0	90.3	37.2	0.8	9	5.2		

Date 2005/04/13
 Origin Time 17:29:22.6
 Lat 4.180S
 Long 101.260E
 Depth 36.7
 mb 5.4
 Ms
 ML
 Source SZGRF
 Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GEC2	e P	Z	17:42:25.6	91.5	94.6	1.4	28	5.4
BRG	e P	Z	17:42:25.5	91.6	94.7	1.6	33	5.4
RUE	e P	Z	17:42:26.9	91.8	94.5	1.4	79	5.9
WET	e P	Z	17:42:28.1	92.1	94.0	1.2	15	5.2
CLL	e P	Z	17:42:28.3	92.2	94.0	1.3	21	5.3
GUNZ	e P	Z	17:42:30.3	92.5	93.5	1.3	17	5.3
WERD	e P	Z	17:42:30.3	92.6	93.5	2.1	67	5.7
MOX	e P	Z	17:42:32.3	93.0	92.9	1.3	17	5.3
FUR	e P	Z	17:42:32.8	93.1	92.8	0.6	19	5.7
GRA1	e P	Z	17:42:33.7	93.2	92.7	1.1	24	5.5
	e pP	Z	17:42:44.4					
CLZ	e P	Z	17:42:36.2	93.8	91.9	1.5	28	5.4
BSEG	e P	Z	17:42:36.5	93.9	91.7	1.5	23	5.3
NRDL	e P	Z	17:42:37.3	94.0	91.6	1.8	34	5.4
UBBA	e P	Z	17:42:36.3	94.0	91.7	1.7	21	5.2
TNS	e P	Z	17:42:42.0	95.0	90.5	1.1	15	5.3
BFO	e P	Z	17:42:41.6	95.1	90.6	1.1	8	5.1

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/13 18:46: 9.7 44.802N 9.409E 10.0G 3.7 SZGRF
 Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 18:47:05.2	3.6	167.7					3.6
	e Sn	N 18:47:47.4							
STU	e Sn	E 18:47:55.9	4.0	177.8					3.9
WET	e Pn	Z 18:47:24.0	4.9	209.9					3.3
	e Sn	N 18:48:18.7							
GEC2	e Pn	Z 18:47:24.4	5.0	217.6					3.6
	e Sn	E 18:48:21.1							
GRA1	e Sn	E 18:48:21.6	5.0	194.8					3.7
TNS	e Pn	Z 18:47:30.6	5.5	172.8					3.6
	e Sn	E 18:48:32.5							
MOX	e Sn	N 18:48:45.4	6.0	195.1					3.8
CLZ	e Sn	N 18:49:09.1	7.1	185.6					3.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/13

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:37:44.8							

Date Origin Time Lat Long Depth mb Ms ML Source

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2005/04/14 08:02:33.6 31.513N 141.655E 33.0N 4.9 SZGRF
Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:15:19.1	87.7	40.5	0.8	6	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/14 09:56:11.2 43.990N 135.930E 373.2 5.4 SZGRF
Primorye, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 10:06:54.3	71.5	40.0	0.8	53	5.7		
BSEG	e P	Z 10:06:55.6	71.7	38.0	0.9	42	5.6		
BRG	e P	Z 10:07:00.9	72.6	39.7	0.7	28	5.5		
CLL	e P	Z 10:07:00.9	72.7	39.2	0.6	54	5.9		
NRDL	e P	Z 10:07:02.4	72.9	37.6	1.0	24	5.3		
CLZ	e P	Z 10:07:05.1	73.3	37.7	0.8	43	5.6		
WERD	e P	Z 10:07:06.7	73.6	38.6	0.7	14	5.1		
GUNZ	e P	Z 10:07:07.1	73.7	38.6	0.7	22	5.3		
MOX	e P	Z 10:07:07.5	73.7	38.2	0.8	15	5.1		
IBBN	e P	Z 10:07:08.2	73.9	36.1	0.8	35	5.4		
UBBA	e P	Z 10:07:09.5	74.2	37.3	0.8	17	5.1		
GEC2	e P	Z 10:07:10.4	74.3	39.2	0.6	20	5.3		
WET	e P	Z 10:07:11.5	74.4	38.8	1.0	25	5.2		
GRA1	e P	Z 10:07:13.1	74.7	37.8	0.8	70	5.7		
	e pP	Z 10:08:36.1							
BUG	e P	Z 10:07:13.0	74.8	35.6	0.7	34	5.5		
TNS	e P	Z 10:07:16.4	75.3	36.2	0.8	19	5.3		
FUR	e P	Z 10:07:19.4	75.8	37.6	0.7	48	5.7		
STU	e P	Z 10:07:21.1	76.2	36.4	1.0	34	5.4		
BFO	e P	Z 10:07:25.0	76.9	35.8	1.0	39	5.5		
	e pP	Z 10:08:48.7							

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/14 11:29:55.0 1.560S 99.930E 39.6 6.0 5.2 SZGRF
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 11:42:44.4	88.7	94.1	1.6	188	6.2		
	e S	T 11:53:28.8							
GEC2	e P	Z 11:42:44.5	88.7	93.9	1.7	222	6.1		
	e S	T 11:53:29.1							
RUE	e P	Z 11:42:45.7	88.9	94.0	1.4	339	6.5		
	e S	T 11:53:29.9							
WET	e P	Z 11:42:47.1	89.3	93.3	1.7	186	6.1		

	e S	T	11:53:34.7								
CLL	e P	Z	11:42:46.8	89.3	93.4	1.4	99	6.0			
	e S	T	11:53:33.1								
RGN	e S	T	11:53:35.6	89.3	93.7						
GUNZ	e P	Z	11:42:49.1	89.7	92.8	1.6	128	6.0			
WERD	e P	Z	11:42:49.0	89.7	92.8	1.7	111	5.9			
MOX	e P	Z	11:42:51.2	90.1	92.3	1.5	114	6.0			
	e S	T	11:53:41.5								
FUR	e P	Z	11:42:51.4	90.3	92.0	1.3	96	6.0			
GRA1	e P	Z	11:42:52.6	90.4	92.0	1.5	175	6.2			
	e pP	Z	11:43:04.1								
	e S	T	11:53:44.5								
	e L	Z	12:32:09.0			20.1	900	5.2			
CLZ	e P	Z	11:42:55.0	91.0	91.3	1.5	127	6.1			
	e S	T	11:53:48.7								
BSEG	e P	Z	11:42:55.5	91.0	91.2	1.6	89	5.9			
	e S	T	11:53:51.0								
NRDL	e P	Z	11:42:56.2	91.1	91.1	1.6	141	6.1			
	e S	T	11:53:51.2								
UBBA	e P	Z	11:42:55.2	91.2	91.0	1.4	49	5.7			
	e S	T	11:53:50.5								
STU	e P	Z	11:42:58.1	91.7	90.5	1.9	152	6.1			
TNS	e P	Z	11:43:00.6	92.1	89.9	1.2	68	5.9			
BFO	e P	Z	11:43:00.3	92.2	89.8	1.5	52	5.7			
IBBN	e P	Z	11:43:02.5	92.6	89.2	1.3	55	5.7			
BUG	e P	Z	11:43:03.7	92.9	88.9	1.3	34	5.6			
	e S	T	11:54:06.4								
WLF	e P	Z	11:43:07.5	93.6	88.1	1.5	61	5.8			

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/14 16:25:16.9 14.233N 121.570E 33.0N 5.0 4.7 SZGRF
 Luzon, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:38:21.5	91.8	65.4	0.9	7	5.0		
	e S	N 16:49:27.5							
	e SS	N 16:55:39.8							
	e L	Z 17:21:51.4			20.1	309		4.7	

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/14 22:09:29.9 21.762S 172.974E 120.7
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 22:28:52.3	145.2	29.1					

RUE	e	PKPbc	Z	22:28:52.6	145.4	35.5
HLG	e	PKPbc	Z	22:28:54.2	145.7	25.1
	e	pPKPbc	Z	22:29:26.8		
NRDL	e	PKPbc	Z	22:28:56.5	146.6	29.8
CLL	e	PKPbc	Z	22:28:56.2	146.6	35.3
	e	pPKPbc	Z	22:29:28.8		
BRG	e	PKPbc	Z	22:28:56.4	146.6	37.1
CLZ	e	PKPbc	Z	22:28:58.0	147.0	30.7
	e	pPKPbc	Z	22:29:30.4		
IBBN	e	PKPbc	Z	22:28:59.3	147.4	26.1
WERD	e	PKPbc	Z	22:28:59.2	147.6	35.0
	e	pPKPbc	Z	22:29:31.7		
GUNZ	e	PKPbc	Z	22:28:59.5	147.6	35.1
MOX	e	PKPbc	Z	22:28:59.4	147.6	33.7
	e	PKPab	Z	22:29:04.3		
UBBA	e	PKPbc	Z	22:29:00.6	148.0	30.9
	e	pPKPbc	Z	22:29:32.3		
NOTT	e	PKPbc	Z	22:29:00.7	148.1	35.3
GEC2	e	PKPbc	Z	22:29:00.9	148.3	38.7
	e	pPKPbc	Z	22:29:33.1		
BUG	e	PKPbc	Z	22:29:01.6	148.3	25.9
	e	PKPab	Z	22:29:07.7		
WET	e	PKPbc	Z	22:29:01.3	148.4	37.1
	e	PKPab	Z	22:29:06.9		
GRA1	e	PKPbc	Z	22:29:02.0	148.6	33.9
	e	PKPab	Z	22:29:07.8		
	e	pPKPbc	Z	22:29:33.6		
	e	PP	Z	22:32:35.6		
TNS	e	PKPbc	Z	22:29:03.3	149.0	28.8
FUR	e	PKPbc	Z	22:29:04.6	149.8	35.4
	e	PKPab	Z	22:29:13.2		
	e	pPKPbc	Z	22:29:37.1		
STU	e	PKPbc	Z	22:29:05.2	150.1	31.3
WLF	e	PKPbc	Z	22:29:06.4	150.2	25.2
	e	PKPab	Z	22:29:14.4		
BFO	e	PKPbc	Z	22:29:07.3	150.7	30.2
	e	PKPab	Z	22:29:15.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/15	03:33:53.8	14.770N	88.110W	33.0N	4.8			SZGRF
Honduras								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e P	Z	03:46:16.1	82.8	284.5	0.9	10	5.1		
BSEG	e P	Z	03:46:16.5	83.0	285.5	0.8	15	5.3		
BFO	e P	Z	03:46:17.5	83.2	284.6	1.1	6	4.7		
NRDL	e P	Z	03:46:18.0	83.2	285.5	0.9	6	4.8		

CLZ	e P	Z	03:46:19.5	83.5	285.7	0.9	9	5.0
MOX	e P	Z	03:46:24.9	84.6	286.8	0.8	3	4.6
GRA1	e P	Z	03:46:25.3	84.7	286.6	0.9	9	5.0
GUNZ	e P	Z	03:46:27.8	85.2	287.4	1.4	9	4.8
NOTT	e P	Z	03:46:28.1	85.2	287.3	1.8	14	4.9
CLL	e P	Z	03:46:28.0	85.3	287.8	0.7	4	4.8
WET	e P	Z	03:46:31.6	85.9	287.9	1.0	4	4.5
GEC2	e P	Z	03:46:33.9	86.5	288.5	1.2	3	4.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/15	04:17:55.4	5.870S	103.810E	33.0N	5.3			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:31:12.1	94.5	93.8	0.9	9	5.1		
GEC2	e P	Z 04:31:12.5	94.5	93.8	1.6	25	5.3		
	e PP	Z 04:35:01.2							
WET	e P	Z 04:31:15.1	95.0	93.1	1.6	22	5.3		
GUNZ	e P	Z 04:31:16.8	95.5	92.6	1.2	10	5.1		
	e PP	Z 04:35:08.4							
WERD	e P	Z 04:31:16.6	95.5	92.6	1.0	6	5.0		
	e PP	Z 04:35:09.1							
NOTT	e P	Z 04:31:17.4	95.6	92.5	1.2	4	4.9		
	e PP	Z 04:35:10.1							
MOX	e P	Z 04:31:18.8	95.9	92.0	1.5	16	5.3		
	e PP	Z 04:35:12.1							
FUR	e P	Z 04:31:20.4	96.1	92.0	0.6	12	5.6		
GRA1	e P	Z 04:31:20.2	96.1	91.8	0.9	8	5.3		
	e PP	Z 04:35:13.9							
CLZ	e P	Z 04:31:22.2	96.7	90.9	1.3	10	5.3		
	e PP	Z 04:35:18.4							
BSEG	e P	Z 04:31:23.1	96.8	90.6	0.6	6	5.4		
	e PP	Z 04:35:16.3							
NRDL	e P	Z 04:31:23.2	96.9	90.7	1.6	16	5.4		
	e PP	Z 04:35:18.8							
TNS	e P	Z 04:31:28.3	97.9	89.7	1.0	9	5.4		
BFO	e P	Z 04:31:28.8	98.0	89.8	0.9	5	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/15	13:08:51.5	2.010N	96.550E	33.0N	5.3	4.9		SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:21:16.8	83.8	94.5	2.0	69	5.3		
GEC2	e P	Z 13:21:16.9	83.8	94.1	1.2	50	5.4		

	e S	T	13:31:31.9							
RUE	e P	Z	13:21:19.3	84.0	94.5	1.1	53	5.5		
WET	e P	Z	13:21:19.7	84.3	93.5	1.2	26	5.1		
	e S	T	13:31:39.3							
CLL	e P	Z	13:21:20.8	84.4	93.8	1.6	27	5.0		
GUNZ	e P	Z	13:21:22.6	84.8	93.2	1.2	21	5.1		
WERD	e P	Z	13:21:23.1	84.8	93.2	1.0	10	4.9		
NOTT	e P	Z	13:21:22.6	84.9	93.0	1.6	24	5.1		
MOX	e P	Z	13:21:25.5	85.2	92.6	1.8	38	5.2		
GRA1	e P	Z	13:21:25.7	85.4	92.3	1.1	41	5.5		
	e L	Z	14:05:01.7			18.9	503		4.9	
CLZ	e P	Z	13:21:29.5	86.1	91.8	1.2	24	5.3		
BSEG	e P	Z	13:21:30.4	86.2	91.9	1.2	35	5.5		
NRDL	e P	Z	13:21:30.3	86.2	91.6	1.8	86	5.7		
UBBA	e P	Z	13:21:29.7	86.3	91.4	0.5	7	5.1		
STU	e P	Z	13:21:33.0	86.7	90.7					
TNS	e P	Z	13:21:35.8	87.2	90.2	1.0	15	5.2		
BFO	e P	Z	13:21:34.6	87.3	90.0	0.9	12	5.2		
	e S	T	13:32:25.3							
IBBN	e P	Z	13:21:38.0	87.7	89.7	1.0	34	5.5		
BUG	e P	Z	13:21:39.4	88.0	89.3	0.7	18	5.4		
WLF	e P	Z	13:21:42.7	88.7	88.4					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/15 16:39:32.6 2.586N 96.405E 33.0N 4.8
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:52:04.7	84.9	92.0	1.0	6	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/15 18:32:15.0 23.279S 174.241W 33.0N 5.4
 Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 18:52:00.2	149.2	8.2					
RUE	e PKPbc	Z 18:52:02.3	150.2	14.9					
NRDL	e PKPbc	Z 18:52:03.3	150.6	8.2					
IBBN	e PKPbc	Z 18:52:04.4	150.9	3.8					
CLZ	e PKPbc	Z 18:52:05.2	151.2	8.8					
CLL	e PKPbc	Z 18:52:05.4	151.4	14.0					
BRG	e PKPbc	Z 18:52:06.1	151.7	16.0					
BUG	e PKPbc	Z 18:52:06.4	151.8	2.9					
MOX	e PKPbc	Z 18:52:07.2	152.3	11.6					
WERD	e PKPbc	Z 18:52:07.1	152.4	13.0					

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GUNZ	e	PKPbc	Z	18:52:07.7	152.4	13.1						
TNS	e	PKPbc	Z	18:52:09.0	153.0	5.4						
NOTT	e	PKPbc	Z	18:52:08.8	153.0	13.0						
GRA1	e	PKPdf	Z	18:52:01.8	153.2	11.2						
	e	PKPbc	Z	18:52:09.8								
	e	L	Z	20:09:19.0			19.2		557		5.4	
GEC2	e	PKPbc	Z	18:52:10.3	153.7	16.6						
BFO	e	PKPdf	Z	18:52:05.0	154.9	5.6						
	e	PKPbc	Z	18:52:13.1								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/16	07:49:34.0	15.767S	171.565W	33.0N				SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e	PKPbc	Z	08:09:01.3	143.5	358.9			
CLL	e	PKPbc	Z	08:09:03.6	144.3	7.5			
BRG	e	PKPbc	Z	08:09:04.6	144.6	9.2			
UBBA	e	PKPbc	Z	08:09:05.3	144.9	2.6			
MOX	e	PKPbc	Z	08:09:06.3	145.0	5.3			
WERD	e	PKPbc	Z	08:09:06.8	145.2	6.5			
GUNZ	e	PKPbc	Z	08:09:07.0	145.3	6.6			
TNS	e	PKPbc	Z	08:09:08.5	145.5	0.0			
NOTT	e	PKPbc	Z	08:09:09.3	145.8	6.3			
GRA1	e	PKPbc	Z	08:09:09.9	146.0	4.8			
WET	e	PKPbc	Z	08:09:11.0	146.4	7.7			
GEC2	e	PKPbc	Z	08:09:11.9	146.6	9.2			
STU	e	PKPbc	Z	08:09:12.6	147.0	1.3			
BFO	e	PKPbc	Z	08:09:14.2	147.4	359.8			
FUR	e	PKPbc	Z	08:09:14.5	147.5	5.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/16	08:42:54.9	4.420S	101.390E	35.3	5.5			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z	08:55:59.7	91.8	94.6	1.5	52	5.6
BRG	e	P	Z	08:55:59.6	91.8	94.8	1.2	30	5.5
RUE	e	P	Z	08:56:00.6	92.1	94.6			
WET	e	P	Z	08:56:02.2	92.4	94.0	1.2	27	5.5
CLL	e	P	Z	08:56:02.3	92.4	94.0			
RGN	e	P	Z	08:56:02.6	92.5	94.1			
GUNZ	e	P	Z	08:56:04.6	92.8	93.5			
WERD	e	P	Z	08:56:04.4	92.8	93.5			
NOTT	e	P	Z	08:56:04.9	92.9	93.4	1.0	11	5.2

BFO e Pn Z 16:36:22.5
e Sn N 16:36:49.7

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/16 16:38: 3.3 1.016N 96.953E 29.0 6.1 6.2
Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:50:34.5	84.8	94.4	2.4	411	6.2		
BRG	e P	Z 16:50:34.3	84.8	94.8					
RUE	e P	Z 16:50:35.3	85.0	94.8					
WET	e P	Z 16:50:37.2	85.4	93.8	2.5	316	6.1		
CLL	e P	Z 16:50:37.0	85.4	94.1					
GUNZ	e P	Z 16:50:39.4	85.8	93.5					
WERD	e P	Z 16:50:39.3	85.8	93.5					
NOTT	e P	Z 16:50:40.1	85.9	93.3					
MOX	e P	Z 16:50:41.6	86.3	93.0	2.3	225	5.9		
FUR	e P	Z 16:50:41.8	86.4	92.5					
GRA1	e P	Z 16:50:43.0	86.5	92.6	2.5	448	6.2		
	e pP	Z 16:50:51.5							
	e PP	Z 16:54:06.9							
	e S	N 17:01:16.6							
	e SS	N 17:07:05.7							
	e SSS	N 17:10:30.7							
	e L	Z 17:35:56.6			19.2	9958		6.2	
CLZ	e P	Z 16:50:45.7	87.1	92.1	2.3	346	6.1		
BSEG	e P	Z 16:50:46.2	87.2	92.1	2.4	508	6.2		
NRDL	e P	Z 16:50:46.8	87.3	91.9					
UBBA	e P	Z 16:50:46.1	87.3	91.7					
STU	e P	Z 16:50:48.8	87.8	91.0					
TNS	e P	Z 16:50:51.7	88.3	90.5	2.4	323	6.2		
BFO	e P	Z 16:50:51.4	88.3	90.4	2.5	182	6.0		
IBBN	e P	Z 16:50:53.6	88.7	90.0					
BUG	e P	Z 16:50:54.9	89.0	89.6					

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/16 19:18:15.3 33.105N 118.401W 33.0N 5.3
Southern California, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:30:52.5	85.9	319.7	1.7	46	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source

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2005/04/16 22:41:56.3
Western Brazil

10.960S

63.970W 124.5

5.3

SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 22:54:25.6	86.8	249.5	1.3	19	5.1		
BUG	e P	Z 22:54:28.1	87.2	248.5					
STU	e P	Z 22:54:29.0	87.5	250.2					
TNS	e P	Z 22:54:29.5	87.5	249.5	1.2	30	5.3		
IBBN	e P	Z 22:54:30.8	87.8	248.9					
FUR	e P	Z 22:54:34.4	88.6	251.7	1.5	60	5.7		
UBBA	e P	Z 22:54:34.3	88.6	250.7					
GRA1	e P	Z 22:54:36.5	89.0	251.7	0.8	27	5.5		
	e pP	Z 22:55:08.5							
	e sP	Z 22:55:22.0							
CLZ	e P	Z 22:54:37.4	89.2	251.0					
NRDL	e P	Z 22:54:37.8	89.2	250.8					
MOX	e P	Z 22:54:38.8	89.5	252.0	1.5	20	5.1		
NOTT	e P	Z 22:54:39.3	89.6	252.4					
BSEG	e P	Z 22:54:40.0	89.8	250.9	0.9	21	5.3		
WET	e P	Z 22:54:40.4	89.9	252.9	1.2	20	5.2		
GUNZ	e P	Z 22:54:40.9	89.9	252.5					
WERD	e P	Z 22:54:40.8	89.9	252.5					
GEC2	e P	Z 22:54:42.1	90.3	253.6	1.1	14	5.1		
CLL	e P	Z 22:54:43.6	90.6	253.0					
BRG	e P	Z 22:54:45.8	91.0	253.8					

Date Origin Time
2005/04/17 07:58:49.3
Azores Islands region

Lat Long
35.610N 34.513W

Depth
33.0N

mb
4.8

Ms

ML

Source
SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:05:45.8	35.8	264.5	1.7	30	4.8		

Date Origin Time
2005/04/17 13:43:58.6
Off west coast of northern Sumatera, Indonesia

Lat Long
0.470N 96.630E

Depth
29.7

mb
5.7

Ms

ML

Source
SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 13:56:31.9	85.0	95.0	1.3	93	5.9		
BRG	e P	Z 13:56:31.8	85.0	95.4					
RUE	e P	Z 13:56:32.9	85.3	95.4					
WET	e P	Z 13:56:34.5	85.6	94.4	1.1	47	5.5		
CLL	e P	Z 13:56:34.4	85.7	94.7					
GUNZ	e P	Z 13:56:36.7	86.0	94.1					
WERD	e P	Z 13:56:36.6	86.0	94.1					

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NOTT	e P	Z	13:56:37.4	86.1	93.9						
MOX	e P	Z	13:56:38.9	86.5	93.6	1.6		55	5.4		
FUR	e P	Z	13:56:38.9	86.6	93.2						
GRA1	e P	Z	13:56:40.3	86.7	93.2	1.1		60	5.6		
	e pP	Z	13:56:48.3								
	e sP	Z	13:56:53.3								
CLZ	e P	Z	13:56:43.0	87.3	92.7	1.2		80	5.7		
BSEG	e P	Z	13:56:43.6	87.5	92.7	1.1		86	5.8		
UBBA	e P	Z	13:56:43.4	87.5	92.3						
NRDL	e P	Z	13:56:44.2	87.5	92.5						
STU	e P	Z	13:56:46.0	88.0	91.6						
TNS	e P	Z	13:56:48.8	88.5	91.1	1.1		64	5.9		
BFO	e P	Z	13:56:48.3	88.5	91.0	1.0		25	5.4		
IBBN	e P	Z	13:56:50.8	88.9	90.6						
BUG	e P	Z	13:56:52.1	89.2	90.2						
WLF	e P	Z	13:56:55.9	90.0	89.3						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 18:02:27.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/17	21:23:48.6	2.480S	99.360E	18.6	5.9			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:36:42.3	89.0	94.9	1.6	168	6.0		
BRG	e P	Z 21:36:42.3	89.0	95.1					
RUE	e P	Z 21:36:43.2	89.3	95.0					
WET	e P	Z 21:36:44.9	89.6	94.3	1.6	131	5.9		
CLL	e P	Z 21:36:44.7	89.7	94.4					
GUNZ	e P	Z 21:36:47.0	90.0	93.9					
WERD	e P	Z 21:36:46.9	90.0	93.9					
NOTT	e P	Z 21:36:47.8	90.1	93.7					
MOX	e P	Z 21:36:49.1	90.5	93.3	1.5	103	5.8		
FUR	e P	Z 21:36:49.1	90.6	93.1					
GRA1	e P	Z 21:36:50.5	90.7	93.0	1.6	177	6.1		
	e pP	Z 21:36:55.9							
CLZ	e P	Z 21:36:53.0	91.3	92.3	1.5	118	6.0		
BSEG	e P	Z 21:36:53.5	91.4	92.2	1.5	88	5.9		
NRDL	e P	Z 21:36:54.1	91.5	92.1					
UBBA	e P	Z 21:36:53.2	91.5	92.1					
STU	e P	Z 21:36:55.9	92.0	91.5					

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TNS	e P	Z	21:36:58.5	92.5	90.9	1.5	103	5.9
BFO	e P	Z	21:36:58.2	92.5	90.9	1.5	44	5.7
IBBN	e P	Z	21:37:00.4	92.9	90.2			
BUG	e P	Z	21:37:01.7	93.2	89.9			
WLF	e P	Z	21:37:05.4	94.0	89.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/17	21:33: 7.5	61.873N	149.716W	33.0N	5.1			SZGRF

Southern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 21:43:41.7	64.5	349.6					
RUE	e P	Z 21:43:44.7	64.9	351.5					
CLZ	e P	Z 21:43:46.4	65.2	349.8	1.2	21	5.2		
BUG	e P	Z 21:43:45.6	65.2	348.3					
CLL	e P	Z 21:43:50.6	66.0	351.2					
MOX	e P	Z 21:43:54.2	66.5	350.5	0.7	14	5.3		
BRG	e P	Z 21:43:54.0	66.5	351.7					
TNS	e P	Z 21:43:54.2	66.6	349.0					
WERD	e P	Z 21:43:55.9	66.8	350.9					
WLF	e P	Z 21:43:56.6	66.8	347.9					
NOTT	e P	Z 21:43:59.6	67.4	350.8					
GRA1	e P	Z 21:44:00.1	67.4	350.4	0.9	12	5.1		
WET	e P	Z 21:44:04.8	68.1	351.3	0.9	7	4.9		
GEC2	e P	Z 21:44:06.9	68.5	351.7	0.7	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/17	21:37:57.4	10.484N	93.143E	28.0	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e P	Z 21:49:44.8	76.6	89.8	2.0	52	5.3		
GRA1	e P	Z 21:49:46.2	76.8	89.3	1.7	39	5.3		
	e pP	Z 21:49:54.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/18								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:42:53.0							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/18	06:43:4.2	45.656N	0.486W	10.0G				SZGRF

France

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Sg	E 06:46:16.2	6.0	230.6					
BFO	e Pg	Z 06:45:02.7	6.6	249.3					
	e Sg	E 06:46:33.5							
STU	e Sg	N 06:46:54.5	7.3	248.3					
TNS	e Pg	Z 06:45:19.0	7.5	236.0					
	e Sg	N 06:47:04.4							
GRA1	e Sg	N 06:47:45.0	8.8	247.3					
CLZ	e Sg	E 06:48:03.9	9.4	233.4					
GEC2	e Sg	N 06:48:28.0	10.1	257.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/18	10:59:20.5	44.747N	9.319E	10.0G			4.1	SZGRF

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 11:00:03.0	2.6	188.9					3.8
WTTA	e Pn	Z 11:00:09.0	3.0	213.4					3.9
KBA	e Pn	Z 11:00:17.2	3.6	231.7					3.8
BFO	e Pn	Z 11:00:15.9	3.6	168.9					4.2
	e Sn	E 11:00:57.3							
FUR	e Sn	E 11:01:01.6	3.7	202.2					4.5
STU	e Sn	N 11:01:08.5	4.0	178.7					4.5
OBKA	e Pn	Z 11:00:22.0	4.1	246.2					4.2
MOA	e Pn	Z 11:00:30.3	4.6	229.6					3.9
WET	e Sn	E 11:01:32.1	5.0	210.2					
GEC2	e Pn	Z 11:00:35.0	5.1	217.8					
	e Sn	N 11:01:32.0							
GRA1	e Sn	E 11:01:32.6	5.1	195.4					
TNS	e Pn	Z 11:00:41.4	5.5	173.5					
	e Sn	N 11:01:45.5							
TANN	e Pn	Z 11:00:51.1	6.0	201.7					
MOX	e Sn	Z 11:01:57.1	6.1	195.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/18								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:21:12.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/18	13:25:38.0	1.157N	96.517E	25.1	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:38:15.8	86.1	92.8	0.9	8	4.9		
	e pP	Z 13:38:23.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/19	00:14: 9.8							SZGRF

Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 00:17:33.1							
GEC2	e P	Z 00:17:25.2							
GRA1	e P	Z 00:17:45.0							
WET	e P	Z 00:17:27.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/19	00:31:25.9	13.398N	120.395E	33.0N	5.1			SZGRF

Mindoro, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:44:30.4	91.7	66.8	0.8	8	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/19	01:46:58.1	29.670N	139.110E	445.1	5.6	4.8		SZGRF

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 01:58:46.9	85.0	45.4	1.0	61	5.8		
	e S	T 02:08:39.0							
	e SS	T 02:14:23.2							
BSEG	e P	Z 01:58:48.9	85.4	42.8	0.8	17	5.2		
	e S	T 02:08:43.1							
	e SS	T 02:14:28.8							
BRG	e P	Z 01:58:51.8	86.1	45.4	1.0	40	5.5		
	e S	T 02:08:49.2							
CLL	e P	Z 01:58:52.1	86.2	44.7	1.3	67	5.6		
	e PP	Z 02:02:21.4							
	e S	T 02:08:49.8							
	e SS	T 02:14:42.0							

CLZ	e P	Z	01:58:56.2	86.9	42.7	1.2	33	5.3	
	e S	T	02:08:58.6						
	e SS	T	02:14:53.6						
WERD	e P	Z	01:58:56.8	87.1	44.2	1.2	21	5.1	
	e PP	Z	02:02:29.3						
GUNZ	e P	Z	01:58:56.5	87.2	44.2	1.1	24	5.2	
MOX	e P	Z	01:58:57.6	87.3	43.6	1.1	16	5.3	
	e PP	Z	02:02:31.4						
	e SS	T	02:14:56.1						
GEC2	e P	Z	01:58:58.9	87.6	45.1	0.8	23	5.5	
	e S	T	02:09:04.5						
	e SS	T	02:15:04.0						
NOTT	e P	Z	01:58:59.7	87.7	44.0	1.1	38	5.6	
	e SS	T	02:15:04.8						
IBBN	e P	Z	01:58:59.2	87.7	40.8	0.9	69	6.0	
	e PP	Z	02:02:34.8						
WET	e P	Z	01:59:00.0	87.8	44.5	1.1	23	5.4	
	e S	T	02:09:07.1						
	e SS	T	02:15:05.4						
GRA1	e P	Z	01:59:02.1	88.1	43.3	1.0	64	5.9	
	e pP	Z	02:00:43.2						
	e S	T	02:09:08.6						
	e SS	T	02:15:12.5						
	e L	Z	02:41:04.0			19.4	362		4.8
BUG	e P	Z	01:59:04.7	88.5	40.4	1.1	37	5.5	
	e PP	Z	02:02:40.7						
TNS	e P	Z	01:59:05.5	89.0	41.2	0.9	10	5.1	
	e S	T	02:09:15.4						
FUR	e P	Z	01:59:07.0	89.2	43.3	1.0	104	6.0	
STU	e P	Z	01:59:08.9	89.7	41.8	1.0	72	5.9	
	e PP	Z	02:02:48.9						
WLF	e P	Z	01:59:12.3	90.3	39.5	1.2	62	5.8	
BFO	e P	Z	01:59:12.1	90.4	41.1	1.0	55	5.8	
	e S	T	02:09:29.2						

Date 2005/04/19 Origin Time 07:42: 3.1 Lat 44.963N Long 9.700E Depth 10.0G mb Ms ML Source 4.1 SZGRF Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pg	Z 07:42:44.7	2.3	183.1					3.7
	e Sg	E 07:43:15.4							
WTTA	e Pn	Z 07:42:46.1	2.7	211.0					3.9
KBA	e Pn	Z 07:42:55.0	3.3	231.4					3.7
	e Sn	E 07:43:33.8							
FUR	e Pn	Z 07:42:56.6	3.4	199.3					4.3
	e Sn	N 07:43:36.7							

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BFO	e Pn	Z	07:42:57.6	3.5	163.9						4.0
	e Sn	E	07:43:38.5								
STU	e Pn	Z	07:43:02.3	3.8	174.6						4.4
	e Sn	E	07:43:46.7								
MOA	e Pn	Z	07:43:08.3	4.3	229.2						3.8
	e Sn	E	07:43:57.6								
WET	e Pn	Z	07:43:13.6	4.7	208.6						4.1
	e Sn	E	07:44:06.3								
GEC2	e Pn	Z	07:43:13.9	4.7	216.6						4.1
	e Sn	E	07:44:07.5								
GRA1	e Pn	Z	07:43:14.5	4.8	192.9						4.5
	e Sn	E	07:44:10.5								
NOTT	e Pn	Z	07:43:18.2	5.1	199.6						4.0
	e Sn	E	07:44:16.6								
TNS	e Pn	Z	07:43:22.9	5.3	170.4						4.1
	e Sn	E	07:44:22.2								
GUNZ	e Pn	Z	07:43:27.1	5.7	199.2						4.1
	e Sn	N	07:44:29.7								
WERD	e Pn	Z	07:43:27.6	5.8	198.7						4.0
	e Sn	N	07:44:33.4								
MOX	e Pn	Z	07:43:27.6	5.8	193.5						4.2
	e Sn	E	07:44:33.5								
BRG	e Pn	Z	07:43:39.1	6.6	207.3						

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/19 08:27:41.8 44.959N 9.818E 10.0G 3.7 SZGRF
 Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e Sn	N	08:29:44.3	4.7	207.6					3.5
GEC2	e Pn	Z	08:28:52.5	4.7	215.8					3.7
	e Sn	N	08:29:46.0							
GRA1	e Sn	E	08:29:48.4	4.8	191.9					4.0
NOTT	e Sn	N	08:29:54.0	5.1	198.7					3.5
WERD	e Sn	N	08:30:10.2	5.7	197.9					3.4
TANN	e Sn	E	08:30:11.0	5.7	199.1					3.7
MOX	e Sn	E	08:30:11.9	5.8	192.7					3.9

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/19 15:10:19.9 2.270N 95.110E 34.8 4.9 3.7 SZGRF
 Off west coast of northern Sumatra, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	15:22:40.2	82.6	95.0	1.1	14	5.1		
BRG	e P	Z	15:22:40.9	82.7	95.4					

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WET	e P	Z	15:22:43.3	83.2	94.4	1.0	7	4.9
CLL	e P	Z	15:22:43.6	83.3	94.8			
GUNZ	e P	Z	15:22:46.0	83.6	94.1	1.0	6	4.8
WERD	e P	Z	15:22:45.8	83.7	94.1	1.1	9	4.9
NOTT	e P	Z	15:22:46.3	83.7	93.9	1.2	5	4.6
MOX	e P	Z	15:22:47.9	84.1	93.6	1.0	6	4.8
GRA1	e P	Z	15:22:49.1	84.3	93.2	0.9	18	5.3
	e pP	Z	15:22:59.3					
CLZ	e P	Z	15:22:52.3	85.0	92.7	1.1	7	4.8
NRDL	e P	Z	15:22:53.2	85.2	92.6	1.3	15	5.1
TNS	e P	Z	15:22:58.3	86.1	91.1	0.8	6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/19	21:11:23.6	33.350N	132.330E	33.0N	5.1	5.5		SZGRF

Shikoku, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	21:23:25.7	78.9	48.4	1.1	33	5.4		
BSEG	e P	Z	21:23:28.3	79.4	46.1	0.9	30	5.3		
BRG	e P	Z	21:23:30.5	79.9	48.3	1.0	10	4.8		
CLL	e P	Z	21:23:31.1	80.0	47.7	0.9	32	5.3		
NRDL	e P	Z	21:23:34.5	80.5	45.8	1.0	12	4.8		
CLZ	e P	Z	21:23:36.4	80.8	45.9	1.0	36	5.3		
WERD	e P	Z	21:23:36.4	80.9	47.1	1.2	13	4.7		
GUNZ	e P	Z	21:23:36.8	81.0	47.1	0.9	15	4.9		
MOX	e P	Z	21:23:37.5	81.1	46.6	1.1	9	4.7		
GEC2	e P	Z	21:23:38.3	81.3	47.9	1.1	8	4.7		
NOTT	e P	Z	21:23:39.6	81.4	46.9	1.1	16	5.0		
WET	e P	Z	21:23:39.9	81.5	47.3	1.2	9	4.7		
IBBN	e P	Z	21:23:40.2	81.7	44.0	1.1	32	5.3		
UBBA	e P	Z	21:23:40.2	81.7	45.5					
GRA1	e P	Z	21:23:42.5	81.9	46.2	1.0	36	5.4		
	e S	N	21:33:55.6							
	e SS	E	21:39:17.6							
	e L	Z	22:03:08.4			18.5	2131		5.5	
BUG	e P	Z	21:23:44.6	82.5	43.6	0.8	14	5.2		
TNS	e P	Z	21:23:46.9	82.8	44.3	0.9	9	4.9		
FUR	e P	Z	21:23:47.6	83.0	46.1	1.1	25	5.3		
STU	e P	Z	21:23:50.1	83.5	44.7	0.9	18	5.3		
BFO	e P	Z	21:23:53.9	84.3	44.1	1.0	28	5.4		
WLF	e P	Z	21:23:54.8	84.3	42.7	1.1	28	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/20	00:08:49.5	24.033N	140.381E	33.0N	4.8			SZGRF

Volcano Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:22:02.6	93.6	45.2	1.0	5	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/20	02:27:45.9	19.510S	178.310W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:47:18.3	144.9	14.3					
RUE	e PKPbc	Z 02:47:20.9	145.7	20.5					
NRDL	e PKPbc	Z 02:47:23.1	146.4	14.4					
CLZ	e PKPbc	Z 02:47:24.9	147.0	15.1					
CLL	e PKPbc	Z 02:47:24.8	147.0	19.8					
BRG	e PKPbc	Z 02:47:25.0	147.2	21.7					
BUG	e PKPbc	Z 02:47:26.8	147.8	9.9					
MOX	e PKPbc	Z 02:47:27.2	147.9	17.8					
WERD	e PKPbc	Z 02:47:27.9	147.9	19.1					
UBBA	e PKPbc	Z 02:47:27.5	148.0	14.9					
GUNZ	e PKPbc	Z 02:47:27.9	148.0	19.2					
NOTT	e PKPbc	Z 02:47:29.5	148.6	19.1					
TNS	e PKPbc	Z 02:47:30.3	148.8	12.4					
GRA1	e PKPbc	Z 02:47:30.4	148.9	17.6					
WET	e PKPbc	Z 02:47:31.3	149.0	20.8					
GEC2	e PKPbc	Z 02:47:30.8	149.1	22.5					
WLF	e PKPbc	Z 02:47:32.8	149.6	8.3					
FUR	e PKPbc	Z 02:47:33.9	150.3	18.5					
BFO	e PKPbc	Z 02:47:34.7	150.7	12.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/20	10:40:55.3				5.3			SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:54:23.5			1.3	10	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/20	16:48:32.8				4.8			SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:58:04.2			1.8	17	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/21	03:39:35.7	6.650N	74.820W	99.0	5.0	4.0		SZGRF

Northern Colombia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	03:51:29.6	79.1	267.4	0.8	41	5.5		
	e pP	Z	03:51:55.3							
	e sP	Z	03:52:06.3							
BUG	e P	Z	03:51:33.5	79.9	268.0	1.2	29	5.1		
IBBN	e P	Z	03:51:35.8	80.2	268.2					
BFO	e P	Z	03:51:36.2	80.5	269.3	1.0	9	4.8		
TNS	e P	Z	03:51:37.4	80.6	269.1	0.9	14	5.0		
	e pP	Z	03:52:03.1							
	e sP	Z	03:52:14.2							
STU	e P	Z	03:51:39.2	81.1	269.9	0.5	12	5.2		
UBBA	e P	Z	03:51:41.9	81.6	270.2	1.4	10	4.7		
NRDL	e P	Z	03:51:43.1	81.6	270.0	1.0	14	5.1		
	e sP	Z	03:52:20.0							
BSEG	e P	Z	03:51:42.9	81.8	270.0	0.9	12	5.0		
CLZ	e P	Z	03:51:44.0	81.8	270.4	1.1	13	5.0		
GRA1	e P	Z	03:51:46.7	82.4	271.3	0.9	9	4.9		
	e pP	Z	03:52:11.9							
	e sP	Z	03:52:23.4							
	e L	Z	04:24:13.9			21.0	63		4.0	
NOTT	e P	Z	03:51:50.0	83.0	272.0	1.1	7	4.8		
	e pP	Z	03:52:15.0							
WERD	e P	Z	03:51:50.2	83.1	272.0	1.1	11	5.0		
GUNZ	e P	Z	03:51:50.4	83.1	272.1	1.1	8	4.8		
CLL	e P	Z	03:51:52.1	83.5	272.5	1.0	17	5.2		
	e pP	Z	03:52:17.9							
	e sP	Z	03:52:29.0							
WET	e P	Z	03:51:52.5	83.5	272.6	1.1	18	5.2		
RUE	e P	Z	03:51:54.3	83.9	273.0	0.9	20	5.3		
GEC2	e P	Z	03:51:54.9	84.0	273.3	1.0	12	5.1		
BRG	e P	Z	03:51:55.4	84.1	273.3	1.0	14	5.2		
	e pP	Z	03:52:20.6							
	e sP	Z	03:52:32.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/21	09:25:56.2	50.710N	178.310E	33.0G	5.3	5.5		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	09:37:35.8	74.9	7.8	1.5	72	5.5		
RUE	e P	Z	09:37:42.8	76.0	10.0					
NRDL	e P	Z	09:37:44.2	76.3	7.7	1.0	30	5.3		
IBBN	e P	Z	09:37:46.1	76.7	6.1	1.1	73	5.6		

CLZ	e P	Z	09:37:47.9	76.9	7.8	1.6	84	5.6			
CLL	e P	Z	09:37:48.9	77.2	9.5	1.0	17	5.1			
BRG	e P	Z	09:37:50.8	77.6	10.1	1.5	41	5.3			
BUG	e P	Z	09:37:51.5	77.6	5.8	0.8	28	5.4			
UBBA	e P	Z	09:37:52.7	78.0	7.5	1.3	27	5.2			
MOX	e P	Z	09:37:53.4	78.0	8.6	1.0	24	5.3			
WERD	e P	Z	09:37:54.9	78.1	9.0	1.5	26	5.1			
GUNZ	e P	Z	09:37:55.3	78.2	9.0	1.1	22	5.2			
TNS	e P	Z	09:37:57.3	78.7	6.5	1.2	37	5.4			
NOTT	e P	Z	09:37:58.4	78.8	8.9	1.0	17	5.1			
GRA1	e P	Z	09:37:59.7	79.0	8.3	1.1	61	5.7			
	e S	T	09:47:58.8								
	e L	Z	10:17:15.9			21.4	2303			5.5	
WET	e P	Z	09:38:01.6	79.4	9.3	1.4	18	5.0			
WLF	e P	Z	09:38:02.1	79.4	5.0	0.9	26	5.4			
GEC2	e P	Z	09:38:02.3	79.6	9.8	0.9	10	5.0			
STU	e P	Z	09:38:05.5	80.1	7.0						
BFO	e P	Z	09:38:07.5	80.6	6.4	1.1	20	5.0			

Date 2005/04/21 Origin Time Lat Long Depth mb Ms ML Source

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GEC2	e P	Z 18:39:40.7							
	GRA1	e P	Z 18:40:00.2							
	TNS	e P	Z 18:40:18.7							
	WET	e P	Z 18:39:46.3							

Date 2005/04/21 Origin Time Lat Long Depth mb Ms ML Source

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z 21:45:52.9							
		e L	Z 22:35:39.6			21.8	594			

Date 2005/04/22 Origin Time 00:35: 7.9 Lat 46.649N Long 11.565E Depth 10.0G mb Ms ML Source SZGRF Northern Italy

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	FUR	e Pn	Z 00:35:35.8	1.5	172.5					2.5
		e Sn	N 00:35:56.8							
	GEC2	e Pn	Z 00:35:49.9	2.6	214.0					2.1

	e Sn	N	00:36:22.8						
WET	e Pn	Z	00:35:50.2	2.6	199.9				2.2
	e Sn	E	00:36:23.2						
BFO	e Pn	Z	00:35:52.1	2.8	126.4				2.5
	e Sn	N	00:36:25.8						
GRA1	e Pg	Z	00:36:03.9	3.1	175.6				2.5
	e Sn	E	00:36:31.2						
TANN	e Sn	N	00:36:50.0	3.8	189.3				2.7
MOX	e Sn	E	00:36:54.2	4.0	180.5				2.5
TNS	e Sn	N	00:36:57.5	4.1	148.8				2.8

Date 2005/04/22 Origin Time 03:18:10.2 Lat Northern Italy Long Depth mb 4.2 Ms ML Source SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:27:12.2			0.9	3	4.2		

Date 2005/04/22 Origin Time 03:46: 7.8 Lat 10.040S Long 13.690W Depth 26.0 mb 5.2 Ms 4.7 ML Source SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 03:56:21.1	61.5	204.8	1.7	35	4.9		
STU	e P	Z 03:56:25.0	62.2	205.7	0.7	11	5.2		
WLF	e P	Z 03:56:25.6	62.2	202.2	1.6	62	5.6		
FUR	e P	Z 03:56:27.0	62.3	208.0	0.8	19	5.4		
TNS	e P	Z 03:56:33.1	63.3	204.5	2.2	65	5.4		
GRA1	e P	Z 03:56:34.7	63.6	207.6	1.9	40	5.2		
	e pP	Z 03:56:42.2							
	e L	Z 04:23:00.3			21.3	553		4.7	
WET	e P	Z 03:56:35.3	63.6	209.4	1.3	18	5.0		
GEC2	e P	Z 03:56:35.8	63.6	210.4	2.6	114	5.5		
NOTT	e P	Z 03:56:37.4	64.0	208.5	1.5	25	5.2		
UBBA	e P	Z 03:56:40.4	64.2	206.1	1.8	42	5.4		
GUNZ	e P	Z 03:56:41.1	64.5	208.6	1.2	18	5.2		
MOX	e P	Z 03:56:41.9	64.6	207.8	1.3	16	5.1		
WERD	e P	Z 03:56:42.2	64.6	208.5	1.4	16	5.1		
CLZ	e P	Z 03:56:45.4	65.3	206.2	1.8	28	5.2		
BRG	e P	Z 03:56:47.2	65.5	210.1	0.8	3	4.5		
CLL	e P	Z 03:56:47.5	65.6	209.1					
NRDL	e P	Z 03:56:50.0	65.8	205.8	1.7	52	5.5		
BSEG	e P	Z 03:56:58.4	67.1	205.8	1.0	11	5.0		

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GEC2	e PKPbc	Z	11:44:32.3	150.5	21.7
	e PKPab	Z	11:44:41.9		
STU	e PKPbc	Z	11:44:35.0	151.5	13.2
BFO	e PKPbc	Z	11:44:35.7	152.0	11.7
	e PKPab	Z	11:44:48.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/22	23:47:31.3	44.350N	11.637E	10.0G			3.1	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	23:48:42.0	4.7	198.3					2.9
	e Sn	N	23:49:35.9							
WET	e Pn	Z	23:48:44.2	4.9	190.5					2.9
	e Sn	N	23:49:38.9							
GRA1	e Sn	N	23:49:50.3	5.3	176.8					3.5
NOTT	e Pn	Z	23:48:51.6	5.5	183.6					2.9
	e Sn	E	23:49:52.7							
GUNZ	e Pn	Z	23:48:59.2	6.0	184.7					
TANN	e Pn	Z	23:49:01.1	6.1	185.6					
MOX	e Pn	Z	23:49:04.8	6.3	179.9					3.4
	e Sn	E	23:50:13.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/23	08:51:15.9	38.590N	42.194E	33.0N	4.4			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:56:33.5	24.6	105.0	1.3	10	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/23	09:49:42.6				4.1			SZGRF

Northwestern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:55:35.6			1.0	3	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/23	10:31:41.1	2.060N	96.470E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:44:06.4	83.7	94.5	1.2	8	4.8		
GEC2	e P	Z	10:44:06.8	83.7	94.1	1.1	15	5.1		
RUE	e P	Z	10:44:09.0	83.9	94.6	0.8	17	5.3		
CLL	e P	Z	10:44:09.2	84.3	93.8	0.9	4	4.7		
GUNZ	e P	Z	10:44:12.4	84.7	93.2	1.0	7	4.8		
WERD	e P	Z	10:44:12.3	84.7	93.2	1.0	6	4.8		
NOTT	e P	Z	10:44:12.8	84.8	93.0	1.1	6	4.7		
GRA1	e P	Z	10:44:15.3	85.4	92.3	1.2	22	5.3		
CLZ	e P	Z	10:44:17.8	86.0	91.8	1.0	9	4.9		
BSEG	e P	Z	10:44:18.4	86.1	91.9	1.0	14	5.0		
NRDL	e P	Z	10:44:20.1	86.2	91.6	1.4	21	5.1		
UBBA	e P	Z	10:44:19.4	86.2	91.4					
TNS	e P	Z	10:44:24.4	87.2	90.2	0.9	10	5.0		
BUG	e P	Z	10:44:27.8	87.9	89.3	0.8	11	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/23 14:39:37.8 31.140N 60.690E 33.0N 4.5
 Northern and central Iran SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:47:04.5	39.3	99.0	0.9	19	4.7		
BRG	e P	Z	14:47:06.6	39.5	101.7	0.9	12	4.5		
RUE	e P	Z	14:47:09.3	40.0	103.4	1.0	20	4.7		
CLL	e P	Z	14:47:11.9	40.2	101.3	1.0	22	4.7		
GUNZ	e P	Z	14:47:14.2	40.4	99.6	0.8	4	4.1		
NOTT	e P	Z	14:47:14.1	40.5	98.8	0.8	6	4.4		
FUR	e P	Z	14:47:17.7	40.8	96.1	0.7	12	4.8		
MOX	e P	Z	14:47:18.1	40.9	99.3	0.8	12	4.7		
GRA1	e P	Z	14:47:19.0	41.0	97.8	0.9	9	4.5		
CLZ	e P	Z	14:47:26.0	41.9	99.5	0.9	10	4.6		
UBBA	e P	Z	14:47:26.4	42.0	98.0					
NRDL	e P	Z	14:47:28.0	42.2	100.0	1.0	5	4.2		
STU	e P	Z	14:47:28.2	42.3	95.1					
BSEG	e P	Z	14:47:29.4	42.3	101.7					
BFO	e P	Z	14:47:32.5	42.8	93.9					
TNS	e P	Z	14:47:34.7	42.9	96.1	1.0	9	4.4		
BUG	e P	Z	14:47:41.2	43.8	96.4	1.0	11	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/23 14:43:50.6 7.167S 69.232W 33.0N 4.7
 Western Brazil SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:56:44.1	89.4	258.1	1.2	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/23	19:11:45.0	39.613N	16.680E	10.0G				SZGRF
Southern Italy								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	19:14:00.1	9.5	165.9					
	e Sn	N	19:15:43.4							
BFO	e Pn	Z	19:14:15.9	10.6	142.4					
NOTT	e Pn	Z	19:14:15.9	10.7	160.7					
	e Sn	E	19:16:11.8							
GUNZ	e Pn	Z	19:14:22.5	11.2	162.5					
TANN	e Pn	Z	19:14:23.6	11.2	163.0					
	e Sn	N	19:16:23.0							
WERD	e Pn	Z	19:14:24.3	11.3	162.5					
MOX	e Pn	Z	19:14:27.7	11.6	160.2					
	e Sn	N	19:16:30.5							
CLL	e Pn	Z	19:14:34.6	12.0	166.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/24	04:00:20.9	33.296N	138.364E	33.0N	5.2			SZGRF
Southeast of Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:12:51.9	84.7	42.0	1.0	17	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/24	07:11:31.3	21.450S	173.670W	50.0N				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:31:08.8	147.4	6.9					
RUE	e PKPbc	Z	07:31:11.6	148.4	13.3					
NRDL	e PKPbc	Z	07:31:12.7	148.8	6.8					
IBBN	e PKPbc	Z	07:31:13.6	149.1	2.6					
CLZ	e PKPbc	Z	07:31:14.6	149.4	7.4					
CLL	e PKPbc	Z	07:31:15.0	149.7	12.4					
BRG	e PKPbc	Z	07:31:15.9	150.0	14.3					
BUG	e PKPbc	Z	07:31:15.6	150.0	1.7					
MOX	e PKPbc	Z	07:31:17.1	150.5	10.0					
WERD	e PKPbc	Z	07:31:17.5	150.6	11.4					
GUNZ	e PKPbc	Z	07:31:17.9	150.7	11.5					
TNS	e PKPbc	Z	07:31:18.6	151.2	4.1					

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NOTT	e	PKPbc	Z	07:31:19.1	151.3	11.3
GRA1	e	PKPbc	Z	07:31:20.2	151.5	9.6
	e			07:31:30.6		
WLF	e	PKPbc	Z	07:31:20.6	151.8	359.7
GEC2	e	PKPbc	Z	07:31:20.6	152.0	14.7
STU	e	PKPbc	Z	07:31:21.9	152.6	5.8
FUR	e	PKPbc	Z	07:31:23.1	153.0	10.2
BFO	e	PKPbc	Z	07:31:23.2	153.1	4.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/24	08:14:33.0	20.009S	170.388E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	PKPbc	Z	08:33:58.9	142.8	38.1			
BRG	e	PKPbc	Z	08:34:02.2	144.0	39.7			
CLL	e	PKPbc	Z	08:34:01.9	144.0	38.0			
NRDL	e	PKPbc	Z	08:34:03.2	144.1	32.7			
CLZ	e	PKPbc	Z	08:34:04.2	144.6	33.6			
WERD	e	PKPbc	Z	08:34:05.4	145.0	37.7			
IBBN	e	PKPbc	Z	08:34:05.7	145.0	29.3			
GUNZ	e	PKPbc	Z	08:34:05.6	145.0	37.8			
MOX	e	PKPbc	Z	08:34:05.7	145.1	36.5			
NOTT	e	PKPbc	Z	08:34:07.3	145.6	38.0			
GEC2	e	PKPbc	Z	08:34:07.5	145.6	41.2			
BUG	e	PKPbc	Z	08:34:08.5	145.9	29.1			
GRA1	e	PKPbc	Z	08:34:08.8	146.0	36.7			
WLF	e	PKPbc	Z	08:34:14.4	147.8	28.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/24	09:19:47.9	1.699S	100.434E	33.0N	5.2			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z	09:32:40.1	89.1	93.8			
GEC2	e	P	Z	09:32:40.2	89.1	93.6	1.5	18	5.1
RUE	e	P	Z	09:32:40.9	89.3	93.7			
CLL	e	P	Z	09:32:42.8	89.7	93.1			
GUNZ	e	P	Z	09:32:44.8	90.1	92.5			
WERD	e	P	Z	09:32:44.6	90.1	92.5			
MOX	e	P	Z	09:32:46.3	90.6	92.0	1.3	12	5.1
GRA1	e	P	Z	09:32:48.1	90.8	91.7	1.2	21	5.3
CLZ	e	P	Z	09:32:50.8	91.4	91.0	1.3	19	5.3
STU	e	P	Z	09:32:53.8	92.1	90.2			
TNS	e	P	Z	09:32:56.2	92.6	89.6	1.1	15	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/24	12:17:38.9	21.734N	120.923E	33.0N	5.1			SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:30:13.5	85.4	61.3	1.2	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/24	18:34: 2.0	45.566N	14.413E	10.0G			4.7	SZGRF

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	18:34:53.7	3.3	171.4					4.4
	e Sn	N	18:35:33.7							
FUR	e Pn	Z	18:34:54.9	3.4	139.3					4.8
GRA1	e Pn	Z	18:35:11.6	4.7	151.3					4.9
	e Sg	N	18:36:30.8							
STU	e Pn	Z	18:35:13.4	4.8	130.1					4.9
BFO	e Pn	Z	18:35:15.7	5.0	121.4					4.6
	e Sn	E	18:36:11.7							
TANN	e Pn	Z	18:35:18.1	5.0	164.2					4.6
	e Sg	E	18:36:42.4							
BRG	e Pn	Z	18:35:20.2	5.3	176.4					
MOX	e Pn	Z	18:35:21.8	5.4	158.8					
	e Sn	N	18:36:22.9							
CLL	e Sg	E	18:37:04.9	5.8	170.2					
TNS	e Pn	Z	18:35:32.9	6.1	137.1					
WLF	e Pn	Z	18:35:43.9	6.9	123.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	01:30: 1.6	2.160N	96.400E	28.4	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:42:27.7	83.6	94.5	1.2	10	4.9		
GEC2	e P	Z	01:42:27.9	83.6	94.1	1.1	12	5.0		
CLL	e P	Z	01:42:30.4	84.2	93.8	0.8	3	4.6		
GUNZ	e P	Z	01:42:32.6	84.6	93.2	1.1	10	4.9		
WERD	e P	Z	01:42:32.6	84.6	93.2	1.1	6	4.7		
NOTT	e P	Z	01:42:33.4	84.7	93.0	2.7	35	5.1		
MOX	e P	Z	01:42:34.9	85.0	92.7	1.2	8	4.8		
GRA1	e P	Z	01:42:36.3	85.2	92.3	1.0	13	5.1		

	e pP	Z	01:42:44.6						
CLZ	e P	Z	01:42:39.1	85.8	91.8	1.4	13	4.9	
BSEG	e P	Z	01:42:39.7	85.9	91.9	1.1	14	5.0	
NRDL	e P	Z	01:42:40.3	86.0	91.6	1.1	14	5.0	
STU	e P	Z	01:42:42.1	86.5	90.7	0.7	9	5.0	
TNS	e P	Z	01:42:45.0	87.0	90.2	1.3	9	4.8	
IBBN	e P	Z	01:42:47.0	87.5	89.8	1.1	26	5.3	
BUG	e P	Z	01:42:48.4	87.8	89.3	1.1	20	5.3	
WLF	e P	Z	01:42:52.3	88.5	88.4	1.2	9	4.9	

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/25 02:32:44.6 26.670S 173.600W 33.0N 5.4
 South of Tonga Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	02:52:39.2	152.6	7.6					
NRDL	e PKPbc	Z	02:52:42.5	154.0	7.6					
CLZ	e PKPpdf	Z	02:52:34.2	154.7	8.3					
	e PKPbc	Z	02:52:43.4							
CLL	e PKPpdf	Z	02:52:34.2	154.9	14.0					
	e PKPab	Z	02:52:57.7							
BRG	e PKPpdf	Z	02:52:34.3	155.1	16.2					
	e PKPbc	Z	02:52:43.9							
	e SS	T	03:16:19.3							
BUG	e PKPpdf	Z	02:52:34.6	155.2	1.9					
MOX	e PKPpdf	Z	02:52:35.4	155.7	11.4					
	e SS	T	03:16:23.9							
WERD	e PKPpdf	Z	02:52:35.4	155.8	13.0					
	e PKPab	Z	02:53:02.2							
GUNZ	e PKPpdf	Z	02:52:35.7	155.9	13.1					
TNS	e PKPpdf	Z	02:52:36.6	156.4	4.6					
NOTT	e PKPpdf	Z	02:52:36.7	156.4	12.9					
	e PKPab	Z	02:53:05.3							
GRA1	e PKPpdf	Z	02:52:37.5	156.7	10.9					
	e PKPab	Z	02:53:06.2							
	e PP	Z	02:56:42.3							
	e SS	T	03:16:34.6							
	e L	Z	04:06:43.5			20.7	654		5.4	
WLF	e PKPpdf	Z	02:52:38.1	157.0	359.4					
GEC2	e PKPpdf	Z	02:52:36.8	157.1	17.0					
	e PKPab	Z	02:53:06.7							
	e SS	T	03:16:39.2							
STU	e PKPpdf	Z	02:52:38.4	157.8	6.6					
	e SS	T	03:16:51.4							
FUR	e PKPpdf	Z	02:52:38.8	158.2	11.8					
BFO	e PKPpdf	Z	02:52:39.0	158.3	4.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	03:18:34.0	3.420N	93.820E	27.2	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 03:30:46.3	80.9	95.2	1.0	24	5.2		
BRG	e P	Z 03:30:46.5	81.0	95.7	0.9	10	4.8		
CLL	e P	Z 03:30:49.3	81.6	95.0	1.0	9	4.8		
GUNZ	e P	Z 03:30:51.5	81.9	94.4	0.9	8	4.8		
WERD	e P	Z 03:30:51.5	82.0	94.4	1.1	6	4.7		
NOTT	e P	Z 03:30:51.9	82.0	94.1	1.2	9	4.7		
MOX	e P	Z 03:30:53.8	82.4	93.9	0.8	6	4.7		
GRA1	e P	Z 03:30:55.2	82.6	93.4	1.1	14	5.1		
	e pP	Z 03:31:03.0							
CLZ	e P	Z 03:30:58.1	83.3	93.0	1.0	11	5.0		
BSEG	e P	Z 03:30:58.8	83.4	93.2	0.9	6	4.8		
NRDL	e P	Z 03:30:59.3	83.5	92.9	1.0	8	4.9		
STU	e P	Z 03:31:01.1	83.9	91.8	0.7	6	4.9		
TNS	e P	Z 03:31:04.2	84.4	91.4					
BFO	e P	Z 03:31:03.8	84.4	91.1	0.9	7	4.9		
BUG	e P	Z 03:31:08.3	85.2	90.6	0.8	10	5.1		
WLF	e P	Z 03:31:12.1	85.9	89.6	1.3	21	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	07:20:35.3	41.273N	134.473W	33.0N				SZGRF

North Pacific Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:33:03.6	84.2	334.8	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	08:27:45.5	18.750S	178.160W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 08:47:15.6	144.2	13.8					
RUE	e PKPbc	Z 08:47:18.5	145.0	20.0					
NRDL	e PKPbc	Z 08:47:20.4	145.6	14.0					
IBBN	e PKPbc	Z 08:47:21.8	146.1	10.1					
CLZ	e PKPbc	Z 08:47:22.3	146.2	14.6					
CLL	e PKPbc	Z 08:47:22.2	146.3	19.3					
BRG	e PKPbc	Z 08:47:23.1	146.5	21.1					
BUG	e PKPbc	Z 08:47:24.3	147.0	9.5					

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MOX	e	PKPbc	Z	08:47:24.9	147.2	17.3
WERD	e	PKPbc	Z	08:47:25.0	147.2	18.5
GUNZ	e	PKPbc	Z	08:47:25.5	147.3	18.6
	e	PKPab	Z	08:47:27.5		
NOTT	e	PKPbc	Z	08:47:27.2	147.9	18.5
	e	PKPab	Z	08:47:29.7		
TNS	e	PKPbc	Z	08:47:27.7	148.1	11.9
	e	PKPab	Z	08:47:30.7		
GRA1	e	PKPbc	Z	08:47:28.1	148.2	17.0
	e	PKPab	Z	08:47:31.1		
GEC2	e	PKPbc	Z	08:47:28.5	148.4	21.8
	e	PKPab	Z	08:47:32.2		
WLF	e	PKPbc	Z	08:47:30.5	148.9	7.9
	e	PKPab	Z	08:47:34.4		
STU	e	PKPbc	Z	08:47:31.1	149.4	13.8
BFO	e	PKPbc	Z	08:47:32.3	150.0	12.3
	e	PKPab	Z	08:47:38.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	17:05:24.0	1.100N	126.400E	10.0N		4.7		NEIR-M

Northern Molucca Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 17:19:38.5	105.1	69.6					
	e PP	Z 17:23:57.6							
	e L	Z 18:09:20.1			21.2	239		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	20:18:12.2	1.430S	98.120E	39.6	5.4	5.1		SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:30:55.3	87.4	95.1	1.2	31	5.3		
BRG	e P	Z 20:30:55.1	87.4	95.4	1.0	18	5.2		
RUE	e P	Z 20:30:56.3	87.7	95.4	1.0	56	5.9		
WET	e P	Z 20:30:57.9	88.0	94.5	1.0	20	5.4		
CLL	e P	Z 20:30:57.8	88.1	94.7	1.0	15	5.3		
GUNZ	e P	Z 20:31:00.1	88.4	94.2	1.2	19	5.3		
WERD	e P	Z 20:31:00.0	88.4	94.1	0.8	11	5.2		
NOTT	e P	Z 20:31:00.8	88.5	94.0	1.1	8	5.0		
MOX	e P	Z 20:31:02.3	88.9	93.6	1.1	13	5.1		
GRA1	e P	Z 20:31:03.7	89.1	93.3	1.0	25	5.4		
	e pP	Z 20:31:15.3							
	e S	E 20:41:48.2							
	e L	Z 21:17:58.5			20.4	840		5.1	

CLZ	e P	Z	20:31:06.5	89.7	92.7	1.7	55	5.5
BSEG	e P	Z	20:31:07.1	89.9	92.6	1.0	36	5.6
NRDL	e P	Z	20:31:07.7	89.9	92.4	1.2	43	5.6
TNS	e P	Z	20:31:12.3	90.9	91.2	1.2	26	5.4
BFO	e P	Z	20:31:11.8	90.9	91.1	1.0	10	5.1
IBBN	e P	Z	20:31:14.3	91.4	90.6	0.9	47	5.8
BUG	e P	Z	20:31:15.6	91.6	90.2	0.9	31	5.7
WLF	e P	Z	20:31:19.4	92.4	89.4	1.0	21	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	20:19:17.2				5.4			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:31:38.5			1.2	29	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	21:40:23.6	0.620N	96.060E	41.5	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 21:52:51.8	84.5	95.4	1.9	52	5.4		
	e pP	Z 21:53:03.9							
BRG	e P	Z 21:52:51.8	84.6	95.7	2.2	40	5.3		
RUE	e P	Z 21:52:53.6	84.8	95.8	0.7	19	5.4		
WET	e P	Z 21:52:54.7	85.1	94.8	1.2	10	4.9		
CLL	e P	Z 21:52:55.0	85.2	95.0	1.0	9	4.9		
GUNZ	e P	Z 21:52:57.4	85.5	94.4	1.1	7	4.7		
WERD	e P	Z 21:52:56.9	85.5	94.4	1.4	9	4.7		
MOX	e P	Z 21:52:59.9	86.0	93.9	1.6	21	5.0		
GRA1	e P	Z 21:53:00.3	86.2	93.5	1.0	10	4.9		
CLZ	e P	Z 21:53:03.2	86.8	93.0	1.1	8	4.8		
BSEG	e P	Z 21:53:04.3	87.0	93.1	2.0	75	5.5		
NRDL	e P	Z 21:53:04.9	87.0	92.8	1.8	50	5.3		
TNS	e P	Z 21:53:09.4	88.0	91.4	1.3	12	5.1		
BUG	e P	Z 21:53:12.1	88.8	90.6	0.9	14	5.2		
WLF	e P	Z 21:53:16.0	89.5	89.7	1.4	26	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/25	22:07: 4.4	53.380N	169.370W	41.1	5.0			SZGRF
Fox Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e P	Z	22:18:30.3	72.7	359.8	1.2	30	5.3
RUE	e P	Z	22:18:38.4	74.1	2.0	0.9	15	5.0
NRDL	e P	Z	22:18:38.4	74.1	359.7	1.0	14	4.9
IBBN	e P	Z	22:18:39.5	74.3	358.2	0.9	29	5.3
CLZ	e P	Z	22:18:42.6	74.8	359.8	1.0	21	5.1
BUG	e P	Z	22:18:44.0	75.1	357.9	0.8	10	5.0
CLL	e P	Z	22:18:44.8	75.3	1.5	2.7	68	5.3
BRG	e P	Z	22:18:47.4	75.7	2.0	1.3	17	5.0
MOX	e P	Z	22:18:49.0	76.0	0.6	1.3	18	5.0
WERD	e P	Z	22:18:50.1	76.2	1.0	1.2	7	4.7
GUNZ	e P	Z	22:18:50.7	76.2	1.0	1.5	18	5.0
TNS	e P	Z	22:18:51.3	76.4	358.7	1.1	9	4.8
NOTT	e P	Z	22:18:53.9	76.8	0.9	1.2	9	4.8
WLF	e P	Z	22:18:54.4	76.9	357.3	1.2	11	4.9
GRA1	e P	Z	22:18:54.9	76.9	0.4	0.8	18	5.2
	e pP	Z	22:19:06.8					
WET	e P	Z	22:18:57.7	77.5	1.4	1.2	11	4.9
GEC2	e P	Z	22:18:59.0	77.7	1.9	1.1	11	4.9
STU	e P	Z	22:18:59.4	77.8	359.1	1.3	17	5.0
BFO	e P	Z	22:19:01.8	78.3	358.6	1.2	17	5.0
FUR	e P	Z	22:19:03.3	78.5	0.4			

Date 2005/04/26 Origin Time 00:04:22.0 Lat 51.949N Long 169.096W Depth 40.6 mb 5.0 Ms ML Source SZGRF
 Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:16:18.4	78.4	0.2	1.3	22	5.0		
	e PcP	Z 00:16:25.4							
	e pP	Z 00:16:30.1							

Date 2005/04/26 Origin Time 00:52:54.1 Lat Long Depth 4.7 mb Ms ML Source SZGRF
 Colombia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:05:39.0			1.5	6	4.7		

Date 2005/04/26 Origin Time 01:33:56.2 Lat 2.278N Long 96.697E Depth 33.0N 4.5 mb Ms ML Source SZGRF
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 01:46:30.3 85.3 92.0 1.1 4 4.5

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/26 11:33:29.7 15.300S 176.500W 33.0N 5.6 GSRC-M
Fiji Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP 11:53:04.8 145.0 13.1
e SS T 12:15:10.8
e L Z 13:02:46.8 20.6 1165 5.6

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/26 14:01:37.5 6.440N 94.190E 26.9 4.7 SZGRF
Nicobar Islands, India, region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
BRG e P Z 14:13:35.3 78.9 93.5 1.1 7 4.6
GEC2 e P Z 14:13:35.8 78.9 92.9 0.9 11 4.9
WET e P Z 14:13:38.8 79.5 92.3 0.9 7 4.7
CLL e P Z 14:13:38.1 79.5 92.8 1.1 4 4.4
GUNZ e P Z 14:13:40.9 79.9 92.1 1.0 6 4.4
WERD e P Z 14:13:40.8 79.9 92.1 0.8 5 4.5
NOTT e P Z 14:13:41.9 80.0 91.9 1.0 6 4.5
MOX e P Z 14:13:43.2 80.3 91.6 1.3 8 4.5
GRA1 e P Z 14:13:45.1 80.5 91.2 0.8 15 5.0
e pP Z 14:13:52.9
CLZ e P Z 14:13:47.7 81.1 90.9 1.0 12 4.9
BSEG e P Z 14:13:48.2 81.2 91.1 0.9 18 5.1
NRDL e P Z 14:13:49.1 81.3 90.8 1.5 15 4.8
UBBA e P Z 14:13:48.1 81.3 90.4 1.4 8 4.6
TNS e P Z 14:13:54.4 82.3 89.1 0.7 7 4.9
BFO e P Z 14:13:54.5 82.4 88.8 0.8 5 4.7

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/26 17:18:22.8 1.940N 98.330E 24.0 4.9 4.6 SZGRF
Northern Sumatera, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
BRG e P Z 17:30:56.1 85.0 93.1 1.0 9 4.9
GEC2 e P Z 17:30:56.3 85.0 92.8 1.1 21 5.3
WET e P Z 17:30:58.7 85.6 92.2 0.9 10 5.0
CLL e P Z 17:30:58.8 85.6 92.4 1.0 7 4.7
GUNZ e P Z 17:31:01.2 86.0 91.8 0.9 7 4.8

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WERD	e P	Z	17:31:00.9	86.0	91.8	0.9	7	4.7
NOTT	e P	Z	17:31:01.7	86.1	91.6	1.1	6	4.6
MOX	e P	Z	17:31:03.3	86.4	91.3	1.4	9	4.7
GRA1	e P	Z	17:31:04.5	86.7	91.0	0.9	16	5.2
	e pP	Z	17:31:11.5					
	e L	Z	18:16:07.9			21.9	247	4.6
CLZ	e P	Z	17:31:07.5	87.2	90.4	1.1	10	4.9
BSEG	e P	Z	17:31:06.6	87.3	90.5	1.2	25	5.2
NRDL	e P	Z	17:31:08.7	87.4	90.2	1.1	11	4.9
TNS	e P	Z	17:31:13.2	88.4	88.8	0.9	8	5.0
BFO	e P	Z	17:31:12.9	88.6	88.7	0.9	6	4.8
WLF	e P	Z	17:31:20.2	89.9	87.1	1.2	14	5.1

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/26 18:56:32.4 19.600S 177.160W 33.0N 5.1 SZGRF
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	19:16:05.6	145.2	12.4					
	e PP	Z	19:19:26.7							
NRDL	e PKPbc	Z	19:16:10.2	146.6	12.5					
CLZ	e PKPbc	Z	19:16:12.1	147.2	13.2					
CLL	e PKPbc	Z	19:16:12.1	147.3	17.9					
BRG	e PKPbc	Z	19:16:13.0	147.5	19.7					
MOX	e PKPbc	Z	19:16:14.6	148.2	15.8					
WERD	e PKPbc	Z	19:16:15.0	148.3	17.1					
UBBA	e PKPbc	Z	19:16:14.9	148.3	12.9					
GUNZ	e PKPbc	Z	19:16:15.3	148.3	17.2					
NOTT	e PKPbc	Z	19:16:16.9	148.9	17.1					
TNS	e PKPbc	Z	19:16:16.9	149.1	10.3					
GRA1	e PKPbc	Z	19:16:17.8	149.2	15.5					
	e L	Z	20:19:18.6			22.0	379		5.1	
WET	e PKPbc	Z	19:16:18.3	149.4	18.8					
GEC2	e PKPbc	Z	19:16:18.1	149.5	20.5					
	e PP	Z	19:19:51.0							
WLF	e PKPbc	Z	19:16:19.3	149.8	6.2					
STU	e PKPbc	Z	19:16:20.7	150.4	12.2					
BFO	e PKPbc	Z	19:16:21.4	150.9	10.7					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/26 20:36:43.2 55.122N 161.332W 33.0N 4.4 SZGRF
 Alaska Peninsula, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:48:21.7	75.0	355.6	1.0	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	00:33: 9.5	31.301N	113.575W	33.0N	4.8			SZGRF
Gulf of California, Mexico								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:45:43.8	85.4	315.3	1.3	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	00:41:17.9	55.013N	165.698E	33.0N	4.5			SZGRF
Komandorsky Islands, Russia, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:52:45.6	73.1	15.0	1.2	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	02:14:48.8				4.6			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:27:28.5			1.1	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	03:43:51.9	4.097N	95.259E	26.6	4.8			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:56:14.3	83.0	91.9	1.0	6	4.8		
	e pP	Z 03:56:22.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	03:45:29.3	3.550N	93.370E	13.9	5.2	4.6		SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:57:41.3	80.5	95.5	1.9	105	5.5		
BRG	e P	Z 03:57:41.3	80.6	96.0					
WET	e P	Z 03:57:44.3	81.1	94.9	1.9	55	5.4		
CLL	e P	Z 03:57:44.1	81.2	95.3					

GUNZ	e P	Z	03:57:46.6	81.6	94.7						
WERD	e P	Z	03:57:46.4	81.6	94.6						
NOTT	e P	Z	03:57:47.4	81.6	94.4						
MOX	e P	Z	03:57:48.9	82.0	94.1						
GRA1	e P	Z	03:57:50.4	82.2	93.7	1.0	22	5.3			
	e pP	Z	03:57:54.5								
	e		03:57:57.7								
	e S	T	04:08:01.1								
	e SS	T	04:13:29.2								
	e L	Z	04:31:55.7			21.7	292	4.6			
GRFO	e P	Z	03:57:50.5	82.2	93.7						
CLZ	e P	Z	03:57:53.3	82.9	93.3	1.1	16	5.1			
BSEG	e P	Z	03:57:54.1	83.0	93.5						
UBBA	e P	Z	03:57:54.1	83.1	92.9						
NRDL	e P	Z	03:57:54.5	83.1	93.2						
STU	e P	Z	03:57:56.4	83.5	92.0						
TNS	e P	Z	03:57:59.4	84.0	91.6						
BFO	e P	Z	03:57:59.0	84.1	91.3	1.0	9	4.9			
IBBN	e P	Z	03:58:01.8	84.5	91.3						
BUG	e P	Z	03:58:03.1	84.8	90.8						
WLF	e P	Z	03:58:07.1	85.5	89.8						

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/27 04:33:34.8 32.700S 179.100W 100.0N
 South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:54:07.6	161.4	28.1					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/27 07:36:12.3 50.710N 98.260E 16.8 5.0 4.9
 Tuva-Buryatia-Mongolia border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:45:08.5	50.2	55.1	1.0	14	4.9		
BSEG	e P	Z 07:45:09.3	50.3	55.4	1.1	22	5.0		
CLL	e P	Z 07:45:10.0	50.4	54.9	0.8	27	5.3		
NRDL	e P	Z 07:45:16.5	51.2	54.3	1.3	22	4.9		
WERD	e P	Z 07:45:16.9	51.3	54.0	0.8	7	4.7		
GUNZ	e P	Z 07:45:17.2	51.3	54.0	1.0	17	4.9		
CLZ	e P	Z 07:45:18.3	51.5	54.0	1.0	17	4.9		
GEC2	e P	Z 07:45:18.5	51.5	53.6	2.2	31	4.8		
MOX	e P	Z 07:45:18.8	51.5	53.8	1.0	20	5.0		
NOTT	e P	Z 07:45:20.7	51.8	53.5	2.5	98	5.3		
WET	e P	Z 07:45:20.7	51.8	53.5	1.0	16	4.9		

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UBBA	e P	Z	07:45:23.8	52.3	53.2	1.3	11	4.6		
GRA1	e P	Z	07:45:25.0	52.3	53.0	0.9	27	5.2		
	e pP	Z	07:45:29.6							
	e S	R	07:52:55.7							
	e SS	R	07:56:28.7							
	e L	Z	08:09:56.3			19.9	1019		4.9	
TNS	e P	Z	07:45:32.7	53.4	52.1	0.9	20	5.1		
BFO	e P	Z	07:45:41.2	54.6	50.9	0.8	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	09:15:57.4	47.660N	151.700E	33.0N	5.3			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 09:27:28.3	73.3	26.0	0.9	17	5.1		
NRDL	e P	Z 09:27:35.9	74.6	25.7	1.0	21	5.1		
CLL	e P	Z 09:27:37.0	74.9	27.4	0.9	48	5.5		
BRG	e P	Z 09:27:37.8	75.0	28.0	1.0	12	4.9		
CLZ	e P	Z 09:27:39.3	75.1	25.8	1.1	50	5.5		
WERD	e P	Z 09:27:43.0	75.9	26.9	1.0	17	5.1		
MOX	e P	Z 09:27:43.1	75.9	26.5	1.0	26	5.3		
GUNZ	e P	Z 09:27:43.4	75.9	26.9	1.0	20	5.2		
UBBA	e P	Z 09:27:44.3	76.2	25.5	1.0	11	5.0		
NOTT	e P	Z 09:27:46.8	76.5	26.7	1.1	27	5.3		
GRA1	e P	Z 09:27:49.0	76.8	26.1	0.9	52	5.7		
WET	e P	Z 09:27:49.0	76.9	27.1	1.0	32	5.4		
GEC2	e P	Z 09:27:48.6	76.9	27.6	1.0	14	5.0		
TNS	e P	Z 09:27:50.2	77.1	24.4	0.9	31	5.4		
FUR	e P	Z 09:27:56.3	78.2	26.0	0.8	46	5.5		
BFO	e P	Z 09:27:59.7	78.9	24.2	0.9	31	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	11:43:27.9	36.658N	95.389E	16.5	4.7			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 11:53:15.8	57.4	70.3	0.8	8	4.8		
BSEG	e P	Z 11:53:22.6	58.5	69.7	0.8	8	4.8		
WERD	e P	Z 11:53:23.4	58.5	69.0	1.0	4	4.4		
GUNZ	e P	Z 11:53:23.7	58.6	69.0	0.9	9	4.8		
WET	e P	Z 11:53:24.6	58.7	68.6	1.0	4	4.5		
MOX	e P	Z 11:53:26.6	58.9	68.7	1.0	6	4.5		
NOTT	e P	Z 11:53:26.0	58.9	68.5	0.8	7	4.7		
NRDL	e P	Z 11:53:27.1	59.1	68.7	1.2	18	4.9		
CLZ	e P	Z 11:53:27.7	59.2	68.5	0.9	15	5.0		

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GRA1	e P	Z	11:53:30.3	59.5	67.9	1.4	24	5.0
	e pP	Z	11:53:34.8					
WLF	e P	Z	11:53:50.9	62.5	64.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	13:08:14.7	43.460N	12.853E	10.0G			3.7	SZGRF

Central Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 13:09:34.0	5.4	186.5					3.5
	e Sn	N 13:10:37.0							
WET	e Sn	E 13:10:41.7	5.7	180.2					3.6
BFO	e Pn	Z 13:09:41.6	5.8	145.5					3.6
	e Sn	N 13:10:44.1							
GRA1	e Sn	N 13:10:58.0	6.3	169.2					
NOTT	e Sn	E 13:10:57.2	6.4	175.2					
GUNZ	e Pn	Z 13:09:54.8	6.9	176.9					3.8
	e Sn	N 13:11:11.3							
MOX	e Sn	N 13:11:17.9	7.2	172.8					4.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	13:10:45.2				4.7			SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:20:03.0			1.2	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/27	14:04:26.6				5.0			SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:16:42.6			0.8	10	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/28	00:40: 9.2	47.715N	154.544E	33.0G	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:52:02.4	77.6	24.3	0.9	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/28	14:07:36.6	2.390N	96.930E	40.0	5.7	5.9		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:20:01.6	83.7	93.9	1.6	103	5.8		
	e S	T	14:30:22.0							
GEC2	e P	Z	14:20:01.9	83.7	93.5	1.5	154	6.0		
	e PP	Z	14:23:14.3							
RUE	e S	T	14:30:23.0	83.9	94.0	1.0	94	6.0		
	e P	Z	14:20:02.6							
WET	e S	T	14:30:22.6	84.3	92.9	1.1	53	5.7		
	e P	Z	14:20:04.6							
CLL	e S	T	14:30:28.5	84.3	93.3	1.3	53	5.6		
	e P	Z	14:20:04.3							
GUNZ	e S	T	14:30:27.3	84.7	92.6	1.2	37	5.5		
	e P	Z	14:20:06.6							
WERD	e S	T	14:30:27.3	84.7	92.6	1.1	33	5.5		
	e P	Z	14:20:06.6							
NOTT	e S	T	14:30:27.3	84.8	92.4	1.1	34	5.5		
	e P	Z	14:20:07.4							
MOX	e PP	Z	14:23:24.7	85.2	92.1	1.6	66	5.6		
	e S	T	14:30:34.6							
FUR	e P	Z	14:20:08.9	85.3	91.6	0.9	35	5.6		
	e PP	Z	14:23:28.2							
GRA1	e S	T	14:30:36.8	85.4	91.7	1.1	93	5.9		
	e P	Z	14:20:09.1							
CLZ	e S	T	14:30:36.4	86.0	91.2	1.2	68	5.6	5.9	
	e P	Z	14:20:10.4							
BSEG	e pP	Z	14:20:22.0	86.1	91.3	1.3	92	5.8		
	e PP	Z	14:23:28.7							
NRDL	e S	T	14:30:39.6	86.2	91.1	1.8	206	6.0		
	e L	Z	15:05:18.3							
UBBA	e P	Z	14:20:13.0	86.2	90.9	1.8	65	5.5		
	e S	T	14:30:43.1							
STU	e P	Z	14:20:13.7	86.7	90.1	0.8	26	5.4		
	e S	T	14:30:45.8							
TNS	e P	Z	14:20:14.3	87.2	89.6	1.1	56	5.6		
	e S	T	14:30:46.1							
BFO	e P	Z	14:20:13.9	87.3	89.5	1.1	31	5.4		
	e S	T	14:30:46.8							
IBBN	e P	Z	14:20:16.2	87.6	89.2	1.3	138	6.1		
	e S	T	14:30:50.9							
BUG	e P	Z	14:20:19.1	87.9	88.8	1.2	77	5.9		
	e S	T	14:30:56.9							
	e P	Z	14:20:18.8							
	e S	T	14:30:55.7							
	e P	Z	14:20:21.1							
	e S	T	14:30:59.6							
	e P	Z	14:20:22.5							
	e S	T	14:31:02.3							

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WLF e P Z 14:20:26.6 88.7 87.9 1.5 116 5.9
e S T 14:31:09.9

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/28 18:54:28.0 44.634N 10.360E 10.0G 3.0 SZGRF
Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 18:55:11.4	2.7	172.7					2.9
	e Sn	E 18:55:40.6							
WTTA	e Pn	Z 18:55:11.6	2.8	199.1					2.9
	e Sn	E 18:55:43.7							
KBA	e Pn	Z 18:55:17.5	3.2	221.5					2.4
	e Sn	E 18:55:54.4							
OBKA	e Sn	E 18:55:59.9	3.5	238.9					2.6
BFO	e Pn	Z 18:55:27.0	4.0	158.5					3.1
	e Sn	N 18:56:11.5							
MOA	e Pn	Z 18:55:30.8	4.2	221.5					2.7
	e Sn	E 18:56:17.5							
ARSA	e Pn	Z 18:55:33.7	4.4	235.8					
GEC2	e Pn	Z 18:55:38.1	4.8	209.8					3.0
	e Sn	N 18:56:30.5							
WET	e Sn	E 18:56:31.4	4.8	201.8					3.0
GRA1	e Sn	N 18:56:38.1	5.1	186.9					3.3
TNS	e Sn	E 18:56:52.9	5.7	166.3					3.3
TANN	e Sn	N 18:56:58.4	6.0	194.6					3.1
MOX	e Sn	E 18:57:01.2	6.1	188.5					3.3

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/29 03:50:25.9 1.562S 13.685W 33.0N 4.5 3.0 SZGRF
North of Ascension Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:59:58.3	55.5	210.7	1.3	6	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
2005/04/29 20:13:48.0 1.441N 95.156E 35.1 4.6 3.0 SZGRF
Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:26:20.4	85.0	93.7	0.8	3	4.6		
	e pP	Z 20:26:30.6			0.8	3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/29	22:28: 7.4	40.261N	34.886E	33.0G	4.7	3.7		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:32:05.6	17.3	111.8	1.3	24	4.2		
WET	e P	Z 22:32:12.8	17.9	111.5	1.2	36	4.4		
BRG	e P	Z 22:32:13.9	18.0	118.0	1.6	41	4.3		
FUR	e P	Z 22:32:20.5	18.6	106.4	1.2	93	4.9		
NOTT	e P	Z 22:32:21.1	18.6	112.2	1.0	17	4.2		
GUNZ	e P	Z 22:32:22.3	18.7	114.0	1.2	43	4.5		
CLL	e P	Z 22:32:22.1	18.7	117.6	1.5	34	4.4		
WERD	e P	Z 22:32:22.8	18.7	114.2	1.8	85	4.7		
GRA1	e P	Z 22:32:26.8	19.1	110.6	1.2	72	4.8		
	e L	Z 22:43:17.3			18.3	312		3.7	
MOX	e P	Z 22:32:28.3	19.2	113.7	2.4	114	4.7		
STU	e P	Z 22:32:37.6	20.1	105.4	1.0	70	4.9		
CLZ	e P	Z 22:32:41.2	20.4	114.9	1.1	110	5.0		
BFO	e P	Z 22:32:43.0	20.5	103.2	1.1	100	5.1		
NRDL	e P	Z 22:32:45.9	20.8	116.0	1.8	96	4.8		
TNS	e P	Z 22:32:47.6	21.0	108.2	1.0	48	4.8		
BUG	e P	Z 22:32:59.6	22.1	109.6	1.4	75	4.9		
IBBN	e P	Z 22:33:00.2	22.1	112.2	1.0	31	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/29	22:33:51.6	71.687N	4.756W	33.0N	3.8			SZGRF

Jan Mayen Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:38:55.7	23.2	347.3	1.3	4	3.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/29	23:16:55.5	72.752N	3.033W	33.0N	3.9			SZGRF

Jan Mayen Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:22:07.0	23.9	349.6	1.4	6	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	00:24:48.0	9.913N	92.434E	33.0N	4.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:36:36.7	76.8	90.2	0.9	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	01:08:40.6	44.510N	147.220E	47.3	5.5	4.4		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:20:18.8	74.9	30.3	0.9	76	5.7		
RUE	e P	Z	01:20:19.5	75.1	32.4	1.1	78	5.7		
NRDL	e P	Z	01:20:25.9	76.2	30.0	0.9	30	5.4		
CLL	e P	Z	01:20:26.1	76.3	31.7	0.9	92	5.9		
BRG	e P	Z	01:20:26.6	76.4	32.3	0.8	23	5.4		
CLZ	e P	Z	01:20:29.0	76.7	30.1	1.0	78	5.8		
IBBN	e P	Z	01:20:30.8	77.1	28.4	0.9	90	5.9		
WERD	e P	Z	01:20:31.8	77.3	31.2	0.8	18	5.2		
MOX	e P	Z	01:20:32.2	77.4	30.8	1.3	42	5.4		
GUNZ	e P	Z	01:20:32.3	77.4	31.2	0.8	25	5.4		
NOTT	e P	Z	01:20:35.5	77.9	31.0	1.0	27	5.3		
BUG	e P	Z	01:20:35.7	78.0	28.0	1.0	55	5.6		
GEC2	e P	Z	01:20:36.7	78.2	31.9	0.7	13	5.0		
WET	e P	Z	01:20:37.4	78.2	31.4	1.0	34	5.3		
GRA1	e P	Z	01:20:37.9	78.3	30.4	0.9	70	5.7		
	e pP	Z	01:20:51.5							
	e PP	Z	01:23:35.8							
	e L	Z	02:00:34.5			18.8	158		4.4	
TNS	e P	Z	01:20:39.8	78.7	28.6	1.5	48	5.3		
FUR	e P	Z	01:20:44.7	79.6	30.3	0.9	41	5.3		
STU	e P	Z	01:20:45.2	79.8	29.0	0.8	35	5.3		
BFO	e P	Z	01:20:48.7	80.4	28.4	0.8	17	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	01:23:31.3	9.850N	40.920E	33.0N	4.7			SZGRF

Ethiopia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	01:31:43.6	45.1	140.5	1.3	12	4.9		
WET	e P	Z	01:31:46.2	45.7	139.7					
NOTT	e P	Z	01:31:54.5	46.5	139.2	2.2	36	5.1		
BRG	e P	Z	01:31:54.1	46.6	142.1	1.7	15	4.8		
GRA1	e P	Z	01:31:56.7	46.8	138.0	0.9	4	4.6		
GUNZ	e P	Z	01:31:57.6	46.9	139.8	1.5	12	4.7		
WERD	e P	Z	01:31:57.7	46.9	139.8	1.2	8	4.6		
STU	e P	Z	01:31:57.6	47.1	135.0	0.6	10	5.0		

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CLL	e P	Z	01:32:00.1	47.3	141.1	1.3	11	4.7
MOX	e P	Z	01:32:01.3	47.4	139.1	1.4	9	4.6
CLZ	e P	Z	01:32:12.3	48.8	138.3	2.0	15	4.6
NRDL	e P	Z	01:32:16.2	49.4	138.3	1.2	6	4.4
BSEG	e P	Z	01:32:23.4	50.4	139.4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	04:06:13.3	15.635N	97.603E	48.5	4.7			SZGRF

Near south coast of Myanmar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:17:56.6	75.8	82.4	1.3	9	4.7		
	e pP	Z 04:18:10.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	04:26:0.8	65.860N	142.150W	33.0N	4.9			SZGRF

Northern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 04:35:55.8	58.4	347.2	1.0	19	5.1		
IBBN	e P	Z 04:36:04.2	59.6	346.2	1.1	17	5.0		
NRDL	e P	Z 04:36:05.0	59.8	347.3	1.3	17	4.9		
RUE	e P	Z 04:36:08.3	60.2	348.9	0.6	14	5.0		
CLZ	e P	Z 04:36:09.9	60.4	347.5	1.0	19	4.9		
CLL	e P	Z 04:36:15.5	61.3	348.7	0.7	7	5.0		
TNS	e P	Z 04:36:18.4	61.7	346.8					
MOX	e P	Z 04:36:18.8	61.8	348.2	0.9	10	5.0		
BRG	e P	Z 04:36:19.4	61.8	349.2	1.1	5	4.7		
WLF	e P	Z 04:36:20.1	61.9	345.9	0.9	10	5.0		
WERD	e P	Z 04:36:20.8	62.1	348.5	1.5	10	4.8		
GUNZ	e P	Z 04:36:21.1	62.1	348.5	1.0	7	4.8		
GRA1	e P	Z 04:36:24.8	62.7	348.1	0.8	5	4.7		
NOTT	e P	Z 04:36:24.7	62.7	348.5	1.2	5	4.5		
WET	e P	Z 04:36:29.9	63.4	348.9					
BFO	e P	Z 04:36:30.6	63.6	347.0	1.7	18	5.0		
GEC2	e P	Z 04:36:32.4	63.8	349.3	1.7	19	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	08:10:27.9	44.803N	9.314E	10.0G			3.4	SZGRF

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 08:11:09.8	2.5	189.2					3.1

WTTA	e Pn	Z	08:11:16.0	2.9	214.1					3.3
BFO	e Pn	Z	08:11:22.5	3.6	168.8					3.6
	e Sn	N	08:12:05.5							
KBA	e Pn	Z	08:11:24.7	3.6	232.4					
STU	e Sn	E	08:12:14.2	4.0	178.8					3.7
OBKA	e Pn	Z	08:11:29.4	4.0	246.9					
MOA	e Pn	Z	08:11:37.5	4.6	230.1					3.1
	e Sn	E	08:12:30.4							
ARSA	e Pn	Z	08:11:41.6	5.0	242.7					2.9
	e Sn	E	08:12:37.3							
WET	e Pn	Z	08:11:42.0	5.0	210.6					3.2
	e Sn	N	08:12:37.0							
GEC2	e Pn	Z	08:11:42.3	5.0	218.2					3.5
	e Sn	E	08:12:39.1							
GRA1	e Sn	E	08:12:39.9	5.1	195.5					3.6
TNS	e Pn	Z	08:11:48.7	5.5	173.5					
TANN	e Sn	E	08:13:02.9	6.0	201.9					3.6
MOX	e Sn	N	08:13:04.4	6.0	195.7					3.6

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/04/30 08:28:39.7 20.770S 173.100W 33.0N
 Tonga Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z	08:48:15.6	145.9	10.7					
HLG	e PKPbc	Z	08:48:17.5	146.6	1.7					
BSEG	e PKPbc	Z	08:48:17.8	146.7	5.8					
RUE	e PKPbc	Z	08:48:20.8	147.8	12.2					
NRDL	e PKPbc	Z	08:48:21.9	148.2	5.7					
IBBN	e PKPbc	Z	08:48:22.9	148.5	1.5					
CLZ	e PKPbc	Z	08:48:24.0	148.8	6.3					
CLL	e PKPbc	Z	08:48:24.2	149.1	11.2					
BUG	e PKPbc	Z	08:48:24.9	149.3	0.7					
BRG	e PKPbc	Z	08:48:25.3	149.4	13.0					
MOX	e PKPbc	Z	08:48:26.6	149.9	8.8					
WERD	e PKPbc	Z	08:48:27.0	150.0	10.2					
GUNZ	e PKPbc	Z	08:48:27.4	150.1	10.2					
TNS	e PKPbc	Z	08:48:28.1	150.5	2.9					
NOTT	e PKPbc	Z	08:48:28.6	150.7	10.0					
GRA1	e PKPbc	Z	08:48:29.4	150.9	8.3					
	e PKPab	Z	08:48:35.7							
WLF	e PKPbc	Z	08:48:30.0	151.1	358.6					
WET	e PKPbc	Z	08:48:30.0	151.2	11.7					
GEC2	e PKPbc	Z	08:48:30.3	151.4	13.4					
STU	e PKPbc	Z	08:48:31.5	151.9	4.6					
FUR	e PKPbc	Z	08:48:33.0	152.4	8.9					
BFO	e PKPbc	Z	08:48:32.3	152.4	2.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 09:11:46.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	13:17:20.8	1.620N	96.470E	41.8	5.4	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 13:29:47.2	84.0	94.4	1.1	36	5.5		
BRG	e P	Z 13:29:47.5	84.0	94.8	2.0	55	5.4		
RUE	e P	Z 13:29:47.9	84.3	94.8	1.6	87	5.7		
WET	e P	Z 13:29:49.9	84.6	93.8	0.9	20	5.4		
CLL	e P	Z 13:29:49.7	84.7	94.1	1.1	12	5.0		
GUNZ	e P	Z 13:29:52.0	85.0	93.5	1.0	16	5.2		
WERD	e P	Z 13:29:51.9	85.0	93.5	0.9	10	5.1		
NOTT	e P	Z 13:29:52.8	85.1	93.3	1.0	10	5.0		
MOX	e P	Z 13:29:54.2	85.5	93.0	2.1	55	5.4		
FUR	e P	Z 13:29:54.4	85.6	92.5	1.0	19	5.3		
GRA1	e P	Z 13:29:55.7	85.7	92.6	0.8	29	5.5		
	e pP	Z 13:30:07.9							
	e S	T 13:40:25.5							
	e L	Z 14:15:18.9			20.8	461		4.8	
CLZ	e P	Z 13:29:58.4	86.3	92.1	1.8	69	5.6		
BSEG	e P	Z 13:29:58.9	86.4	92.2	0.8	23	5.5		
NRDL	e P	Z 13:29:59.6	86.5	91.9	1.8	79	5.6		
STU	e P	Z 13:30:01.6	87.0	91.0	0.9	17	5.2		
TNS	e P	Z 13:30:04.4	87.5	90.5	1.9	56	5.4		
BFO	e P	Z 13:30:04.1	87.6	90.3	0.8	13	5.1		
IBBN	e P	Z 13:30:06.4	87.9	90.0	0.9	44	5.6		
BUG	e P	Z 13:30:07.8	88.2	89.6	1.0	37	5.5		
WLF	e P	Z 13:30:11.9	89.0	88.7	1.1	28	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	14:45:13.9	5.654N	94.963E	33.0N	4.5			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:57:29.2	81.6	91.1	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30	14:48:14.4	23.240N	122.300E	33.0N	5.2	5.1		SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	15:00:33.4	82.2	61.6	0.8	20	5.3		
BRG	e P	Z	15:00:38.6	82.9	61.5	1.0	12	5.1		
CLL	e P	Z	15:00:38.1	83.2	60.9	1.0	17	5.2		
BSEG	e P	Z	15:00:39.7	83.3	59.1	1.4	15	5.0		
GEC2	e P	Z	15:00:42.8	84.0	61.1	0.9	8	4.9		
WERD	e P	Z	15:00:42.7	84.0	60.3	1.2	7	4.8		
GUNZ	e P	Z	15:00:42.9	84.0	60.3	1.4	27	5.3		
NRDL	e P	Z	15:00:43.9	84.2	58.8	1.5	21	5.1		
MOX	e P	Z	15:00:44.1	84.3	59.8	1.3	10	4.9		
WET	e P	Z	15:00:44.7	84.3	60.6	1.4	12	4.9		
CLZ	e P	Z	15:00:44.8	84.4	58.9	1.4	23	5.2		
NOTT	e P	Z	15:00:45.2	84.4	60.1	1.4	14	5.0		
GRA1	e P	Z	15:00:48.1	85.0	59.4	1.3	29	5.4		
	e L	Z	15:41:31.5			19.0	746		5.1	
IBBN	e P	Z	15:00:50.2	85.5	57.0	1.2	17	5.1		
FUR	e P	Z	15:00:51.9	85.8	59.3	0.8	23	5.4		
BUG	e P	Z	15:00:53.7	86.2	56.6	0.2	29	6.2		
TNS	e P	Z	15:00:54.2	86.2	57.4	1.3	8	4.7		
STU	e P	Z	15:00:55.6	86.6	57.8	0.5	10	5.2		
BFO	e P	Z	15:00:59.1	87.3	57.2	1.2	8	5.0		
WLF	e P	Z	15:01:01.8	87.8	55.6	0.9	17	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	16:51:08.9							
	e Sn	N	16:52:13.0							
WLF	e Pn	Z	16:50:44.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	19:03:13.9							
MOX	e Pn	Z	19:03:44.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/04/30								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e PKP	Z 20:32:06.5					

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-analyses).

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