

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)

MARCH 2005 UPDATED 15.NOVEMBER.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
2005/03/01								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GEC2	e Pn	Z 05:43:21.9					
		e Sn	N 05:44:39.8					
	WET	e Pn	Z 05:43:26.9					
2005/03/01								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e PKP	Z 06:27:34.8					
2005/03/01	07:24: 5.6	31.210S	71.381W	25.0G	mb	Ms	ML	Source
Near coast of central Chile								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e L	Z 08:31:01.8	108.9	243.7	18.0	519	5.1
2005/03/01	19:22:38.6	5.223N	95.072E	53.4	mb	Ms	ML	Source
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:34:47.5	80.4	93.1					
GRA1	e P	Z 19:34:55.9	82.0	91.3	0.8	6	4.8		
	e pP	Z 19:35:11.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/01	21:34:41.5	48.283N	129.779W	33.0N	4.6			SZGRF

Vancouver Island, Canada, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:46:28.2	76.4	334.5	1.0	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/01	22:22:28.2	10.936N	90.871E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 22:34:10.0			1.0	20	5.2		
CLZ	e P	Z 22:34:09.4			1.0	11	5.0		
GEC2	e P	Z 22:33:57.0			0.9	7	4.8		
GRA1	e P	Z 22:34:06.7	74.0	90.7	1.4	15	4.9		
WET	e P	Z 22:34:00.1			1.0	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/02	01:12: 9.8	16.990N	90.810W	33.0N	4.7			SZGRF

Mexico-Guatemala border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 01:24:34.1	83.3	288.1	0.8	2	4.5		
MOX	e P	Z 01:24:40.6	84.5	290.2	0.8	3	4.6		
GRA1	e P	Z 01:24:41.2	84.6	290.0	0.8	7	5.0		
CLL	e P	Z 01:24:43.5	85.1	291.2	0.8	7	5.0		
NOTT	e P	Z 01:24:43.5	85.1	290.7	0.8	4	4.7		
BRG	e P	Z 01:24:47.1	85.8	292.0	0.9	3	4.4		
WET	e P	Z 01:24:47.1	85.8	291.3	0.9	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/02	02:21:41.0	37.130N	70.430E	163.2	5.1			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	02:29:15.1	41.8	86.6	0.9	53	5.3
RUE	e P	Z	02:29:15.1	41.8	88.3	1.6	141	5.5
RGN	e P	Z	02:29:17.3	42.0	90.2	1.0	287	6.0
GEC2	e P	Z	02:29:17.4	42.1	84.2	1.3	15	4.6
CLL	e P	Z	02:29:19.0	42.3	86.4	0.8	29	5.1
WET	e P	Z	02:29:21.7	42.6	83.9	1.4	14	4.5
GUNZ	e P	Z	02:29:23.7	42.8	84.9	1.1	24	4.9
WERD	e P	Z	02:29:23.6	42.8	85.0	1.4	36	4.9
NOTT	e P	Z	02:29:24.1	43.0	84.1	1.1	40	5.1
	e pP	Z	02:30:00.3					
MOX	e P	Z	02:29:27.0	43.2	84.7	1.0	32	5.0
GRA1	e P	Z	02:29:30.4	43.6	83.4	1.5	86	5.3
FUR	e P	Z	02:29:31.3	43.7	81.8	1.4	80	5.2
BSEG	e P	Z	02:29:31.6	43.8	87.2	0.8	55	5.3
CLZ	e P	Z	02:29:32.1	43.9	85.0	1.1	44	5.1
NRDL	e P	Z	02:29:32.6	44.0	85.5	0.9	37	5.1
UBBA	e P	Z	02:29:34.5	44.2	83.7	0.6	13	4.8
STU	e P	Z	02:29:41.0	45.0	81.1	0.9	24	5.1
TNS	e P	Z	02:29:43.6	45.3	82.0	1.2	24	5.0
IBBN	e P	Z	02:29:44.9	45.5	83.6	0.8	71	5.7
BFO	e P	Z	02:29:46.0	45.7	80.1	1.1	13	4.9
BUG	e P	Z	02:29:48.1	45.9	82.4	0.8	20	5.2
WLF	e P	Z	02:29:55.6	46.8	80.0	1.0	53	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/02	04:02:29.2	38.470N	15.239E	33.0G				SZGRF
Sicily, Italy								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z 04:04:54.9	10.1	162.0					
GEC2	e Pn	Z 04:04:57.7	10.4	173.3					
WET	e Pn	Z 04:05:02.5	10.8	170.1					
BFO	e Pn	Z 04:05:05.9	11.1	150.6					
NOTT	e Pn	Z 04:05:11.7	11.6	167.7					
GRA1	e Pn	Z 04:05:12.9	11.6	164.1					
GUNZ	e Pn	Z 04:05:20.4	12.1	169.1					
MOX	e Pn	Z 04:05:23.3	12.4	166.7					
TNS	e Pn	Z 04:05:28.0	12.7	155.1					
WLF	e Pn	Z 04:05:30.9	12.9	146.5					
CLZ	e Pn	Z 04:05:40.8	13.8	163.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/02	10:42:11.7	4.730S	132.160E	203.9				SZGRF
Irian Jaya, Indonesia, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
SUW	e Pdiff	Z	10:55:54.9	104.9	77.2					
	e pPdiff	Z	10:56:44.6							
	e PP	Z	11:00:18.0							
	e sPP	Z	11:01:26.8							
	e		11:03:38.9							
OKC	e SKSac	R	11:06:15.6	108.9	74.2					
	e Pdiff	Z	10:56:10.0							
	e pPdiff	Z	10:57:00.7							
	e PP	Z	11:00:44.4							
	e sPP	Z	11:01:54.9							
BSD	e SKSac	R	11:06:32.7	109.2	69.7					
	e Sdiff	T	11:07:58.8							
	e Pdiff	Z	10:56:14.9							
	e pPdiff	Z	10:57:04.6							
	e PP	Z	11:00:45.5							
MORC	e sPP	Z	11:01:55.9	109.4	96.8					
	e SKSac	R	11:06:37.0							
	e Sdiff	T	11:08:04.1							
	e SS	T	11:15:59.3							
	e SSS	T	11:19:55.2							
RGN	e Pdiff	Z	10:56:15.6	110.2	68.5					
	e pPdiff	Z	10:57:05.4							
	e PP	Z	11:00:49.0							
	e sPP	Z	11:01:59.4							
	e SKSac	R	11:06:37.8							
COP	e Sdiff	T	11:08:08.2	110.3	67.3					
	e SS	T	11:16:04.8							
	e SSS	T	11:19:58.5							
	e Pdiff	Z	10:56:20.5							
	e pPdiff	Z	10:57:10.2							
RUE	e PP	Z	11:00:54.0	110.7	69.6					
	e sPP	Z	11:02:04.3							
	e		11:04:22.4							
	e SKSac	R	11:06:42.0							
	e pSKSac	R	11:07:51.2							
COP	e Sdiff	T	11:08:16.1	110.3	67.3					
	e SS	T	11:16:13.0							
	e SSS	T	11:20:09.1							
	e Pdiff	Z	10:56:21.4							
	e pPdiff	Z	10:57:11.1							
RUE	e PP	Z	11:00:54.1	110.7	69.6					
	e sPP	Z	11:02:04.5							
	e SKSac	R	11:06:43.1							
	e Sdiff	T	11:08:18.5							
	e SS	T	11:16:15.2							
RUE	e Pdiff	Z	10:56:21.8	110.7	69.6					
	e pPdiff	Z	10:57:11.6							
	e PKPdf	Z	11:00:22.0							

	e PP	Z	11:00:59.0		
	e sPP	Z	11:02:09.3		
	e SKSac	R	11:06:41.6		
	e Sdiff	T	11:08:18.5		
	e SS	T	11:16:24.3		
	e SSS	T	11:20:24.5		
PRU	e Pdiff	Z	10:56:23.9	111.1	71.2
	e pPdiff	Z	10:57:13.7		
	e PP	Z	11:01:02.2		
	e sPP	Z	11:02:12.5		
	e SKSac	R	11:06:44.1		
	e Sdiff	T	11:08:24.0		
	e SS	T	11:16:28.9		
	e SSS	T	11:20:32.4		
BRG	e Pdiff	Z	10:56:24.3	111.2	70.4
	e pPdiff	Z	10:57:14.0		
	e PKPdf	Z	11:00:23.1		
	e PP	Z	11:01:02.9		
	e sPP	Z	11:02:13.2		
	e SKSac	R	11:06:43.7		
	e Sdiff	T	11:08:23.8		
	e SS	T	11:16:30.6		
	e SSS	T	11:20:33.1		
ARSA	e Pdiff	Z	10:56:24.4	111.3	73.0
	e pPdiff	Z	10:57:14.2		
	e PP	Z	11:01:01.9		
	e sPP	Z	11:02:12.1		
	e SKSac	R	11:06:43.8		
	e Sdiff	T	11:08:23.6		
	e SS	T	11:16:27.0		
CLL	e Pdiff	Z	10:56:26.1	111.6	69.4
	e pPdiff	Z	10:57:15.8		
	e PP	Z	11:01:05.7		
	e sPP	Z	11:02:16.0		
	e SKSac	R	11:06:45.1		
	e Sdiff	T	11:08:26.7		
	e SS	T	11:16:35.5		
	e SSS	T	11:20:34.4		
MUD	e Pdiff	Z	10:56:26.8	111.6	64.1
	e pPdiff	Z	10:57:16.7		
	e PP	Z	11:01:04.4		
	e sPP	Z	11:02:14.7		
	e SKSac	R	11:06:47.3		
	e Sdiff	T	11:08:26.5		
	e SS	T	11:16:33.9		
	e SSS	T	11:20:36.4		
MOA	e Pdiff	Z	10:56:27.1	112.0	71.8
	e pPdiff	Z	10:57:16.9		
	e PP	Z	11:01:06.7		

	e sPP	Z	11:02:17.0		
	e SKSac	R	11:06:45.5		
	e Sdiff	T	11:08:28.4		
	e SS	T	11:16:33.1		
	e SSS	T	11:20:37.1		
KHC	e Pdiff	Z	10:56:27.6	112.0	70.7
	e pPdiff	Z	10:57:17.5		
	e PKPdf	Z	11:00:24.4		
	e PP	Z	11:01:08.0		
	e sPP	Z	11:02:18.3		
	e SKSac	R	11:06:47.2		
	e Sdiff	T	11:08:31.1		
	e SS	T	11:16:39.1		
	e SSS	T	11:20:39.6		
GEC2	e Pdiff	Z	10:56:26.7	112.0	70.9
	e pPdiff	Z	10:57:16.7		
	e PKPdf	Z	11:00:24.3		
	e PP	Z	11:01:07.5		
	e sPP	Z	11:02:17.8		
	e SKSac	R	11:06:46.2		
	e Sdiff	T	11:08:30.5		
	e SS	T	11:16:36.4		
	e SSS	T	11:20:38.1		
BSEG	e Pdiff	Z	10:56:29.0	112.1	66.0
	e pPdiff	Z	10:57:18.8		
	e PKPdf	Z	11:00:25.3		
	e PP	Z	11:01:07.6		
	e sPP	Z	11:02:17.5		
	e		11:04:39.8		
	e SKSac	R	11:06:49.4		
	e Sdiff	T	11:08:31.5		
	e SS	T	11:16:36.7		
	e SSS	T	11:20:42.1		
OBKA	e Pdiff	Z	10:56:28.2	112.2	72.5
	e pPdiff	Z	10:57:17.9		
	e PP	Z	11:01:07.2		
	e sPP	Z	11:02:17.4		
	e SKSac	R	11:06:46.3		
	e Sdiff	T	11:08:29.7		
	e SSS	T	11:20:38.2		
NKC	e Pdiff	Z	10:56:29.4	112.3	69.3
	e pPdiff	Z	10:57:19.2		
	e PP	Z	11:01:10.9		
	e sPP	Z	11:02:21.2		
	e SKSac	R	11:06:49.4		
	e Sdiff	T	11:08:34.3		
	e SS	T	11:16:45.5		
	e SSS	T	11:20:43.4		
WET	e Pdiff	Z	10:56:29.7	112.4	70.1

	e pPdiff	Z	10:57:19.5		
	e PKPdf	Z	11:00:25.3		
	e PP	Z	11:01:11.0		
	e sPP	Z	11:02:21.3		
	e SKSac	R	11:06:49.4		
	e Sdiff	T	11:08:35.4		
	e SS	T	11:16:45.3		
	e SSS	T	11:20:45.2		
NOTT	e Pdiff	Z	10:56:31.0	112.6	69.2
	e pPdiff	Z	10:57:20.8		
	e PP	Z	11:01:13.1		
	e sPP	Z	11:02:23.4		
	e SKSac	R	11:06:51.3		
	e Sdiff	T	11:08:37.5		
	e SS	T	11:16:50.4		
	e SSS	T	11:20:48.5		
MOX	e Pdiff	Z	10:56:31.0	112.6	68.4
	e pPdiff	Z	10:57:20.8		
	e PP	Z	11:01:13.4		
	e sPP	Z	11:02:23.7		
	e SKSac	R	11:06:51.7		
	e Sdiff	T	11:08:37.2		
	e SS	T	11:16:52.2		
	e SSS	T	11:20:47.0		
NRDL	e Pdiff	Z	10:56:31.7	112.8	66.4
	e pPdiff	Z	10:57:21.5		
	e PKPdf	Z	11:00:26.6		
	e PP	Z	11:01:13.5		
	e sPP	Z	11:02:23.6		
	e SKSac	R	11:06:51.5		
	e Sdiff	T	11:08:37.6		
	e SS	T	11:16:52.9		
	e SSS	T	11:20:48.8		
KBA	e Pdiff	Z	10:56:31.4	112.8	71.3
	e pPdiff	Z	10:57:21.2		
	e PP	Z	11:01:12.6		
	e sPP	Z	11:02:22.9		
	e SKSac	R	11:06:49.5		
	e Sdiff	T	11:08:34.3		
	e SS	T	11:16:44.9		
	e SSS	T	11:20:46.5		
CLZ	e Pdiff	Z	10:56:32.6	112.9	66.9
	e pPdiff	Z	10:57:22.3		
	e PKPdf	Z	11:00:26.2		
	e PP	Z	11:01:15.3		
	e sPP	Z	11:02:25.4		
	e SKSac	R	11:06:52.3		
	e Sdiff	T	11:08:38.8		
	e SS	T	11:16:56.1		

	e SSS	T	11:20:49.3		
GRA1	e Pdiff	Z	10:56:33.5	113.2	68.5
	e pPdiff	Z	10:57:23.3		
	e PP	Z	11:01:17.2		
	e sPP	Z	11:02:27.5		
	e SKSac	R	11:06:54.9		
	e Sdiff	T	11:08:42.6		
	e SS	T	11:16:59.2		
	e SSS	T	11:20:50.6		
HLG	e Pdiff	Z	10:56:34.4	113.3	63.7
	e pPdiff	Z	10:57:24.1		
	e PKPdf	Z	11:00:26.4		
	e PP	Z	11:01:16.1		
	e sPP	Z	11:02:26.1		
	e		11:04:50.6		
	e SKSac	R	11:06:54.7		
	e Sdiff	T	11:08:42.4		
	e SS	T	11:16:55.6		
	e SSS	T	11:20:53.7		
UBBA	e Pdiff	Z	10:56:34.7	113.5	66.9
	e pPdiff	Z	10:57:24.5		
	e PP	Z	11:01:19.1		
	e sPP	Z	11:02:29.5		
	e SKSac	R	11:06:55.2		
	e Sdiff	T	11:08:44.3		
	e SS	T	11:17:02.2		
	e SSS	T	11:20:53.9		
FUR	e Pdiff	Z	10:56:35.2	113.7	69.1
	e pPdiff	Z	10:57:24.9		
	e PKPdf	Z	11:00:27.0		
	e PP	Z	11:01:19.7		
	e sPP	Z	11:02:29.9		
	e SKSac	R	11:06:53.9		
	e Sdiff	T	11:08:44.4		
	e SS	T	11:17:02.6		
	e SSS	T	11:21:00.8		
WTTA	e Pdiff	Z	10:56:35.9	113.8	69.8
	e pPdiff	Z	10:57:25.6		
	e PP	Z	11:01:19.7		
	e sPP	Z	11:02:30.1		
	e SKSac	R	11:06:52.7		
	e Sdiff	T	11:08:43.7		
	e SS	T	11:17:01.7		
	e SSS	T	11:20:57.4		
TNS	e Pdiff	Z	10:56:40.5	114.7	65.8
	e pPdiff	Z	10:57:30.2		
	e PP	Z	11:01:27.6		
	e sPP	Z	11:02:38.0		
	e SKSac	R	11:07:00.8		

	e Sdiff	T	11:08:55.2		
	e SS	T	11:17:19.6		
STU	e Pdiff	Z	10:56:40.3	114.8	67.1
	e pPdiff	Z	10:57:30.2		
	e PKPdf	Z	11:00:29.4		
	e PP	Z	11:01:27.5		
	e sPP	Z	11:02:37.9		
	e SKSac	R	11:06:59.4		
	e Sdiff	T	11:08:55.8		
	e SS	T	11:17:16.7		
DAVA	e Pdiff	Z	10:56:40.8	114.9	68.3
	e pPdiff	Z	10:57:30.5		
	e PP	Z	11:01:27.7		
	e sPP	Z	11:02:38.0		
	e SKSac	R	11:06:56.0		
	e Sdiff	T	11:08:52.9		
	e SS	T	11:17:13.5		
BFO	e Pdiff	Z	10:56:43.3	115.5	66.5
	e pPdiff	Z	10:57:33.1		
	e PP	Z	11:01:32.1		
	e sPP	Z	11:02:42.4		
	e		11:05:11.2		
	e SKSac	R	11:06:59.6		
	e Sdiff	T	11:09:01.6		
	e SS	T	11:17:20.6		
WLF	e Pdiff	Z	10:56:47.7	116.2	64.0
	e pPdiff	Z	10:57:37.5		
	e PP	Z	11:01:38.9		
	e sPP	Z	11:02:49.1		
	e SKSac	R	11:07:05.6		
	e Sdiff	T	11:09:09.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/02	12:11:35.8	17.696S	177.972W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	12:31:03.2	143.2	13.3					
CLZ	e PKPbc	Z	12:31:10.0	145.2	14.0					
CLL	e PKPbc	Z	12:31:09.6	145.3	18.6					
BRG	e PKPbc	Z	12:31:10.6	145.5	20.3					
WERD	e PKPbc	Z	12:31:12.6	146.2	17.8					
NOTT	e PKPbc	Z	12:31:14.3	146.9	17.8					
TNS	e PKPbc	Z	12:31:15.2	147.1	11.3					
GRA1	e PKPbc	Z	12:31:15.0	147.2	16.3					
WET	e PKPbc	Z	12:31:15.5	147.3	19.4					
GEC2	e PKPbc	Z	12:31:16.1	147.4	21.0					

./2005/bul0503.txt

Thu Apr 23 08:38:25 2020

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FUR e PKPbc Z 12:31:19.0 148.6 17.1

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/02 13:35:19.5 48.860N 138.870E 33.0N 5.1
Primorye, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 13:46:26.5	69.7	34.6	1.0	30	5.4		
CLZ	e P	Z 13:46:29.3	70.2	33.2	1.1	24	5.2		
WERD	e P	Z 13:46:32.6	70.7	34.1	2.5	73	5.4		
GUNZ	e P	Z 13:46:33.1	70.7	34.1	0.9	8	4.9		
MOX	e P	Z 13:46:33.1	70.7	33.7	1.1	14	5.0		
NOTT	e P	Z 13:46:36.5	71.3	33.8	1.0	10	4.9		
GEC2	e P	Z 13:46:37.1	71.5	34.6	1.1	7	4.7		
WET	e P	Z 13:46:37.9	71.5	34.1	1.1	15	5.0		
GRA1	e P	Z 13:46:39.4	71.7	33.3	1.0	40	5.5		
BFO	e P	Z 13:46:51.4	73.8	31.4	1.2	20	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/02 18:40:42.0 21.050S 176.314E 33.0N
South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 19:00:21.0	147.1	29.5					
BRG	e PKPbc	Z 19:00:21.6	147.1	31.4					
TANN	e PKPbc	Z 19:00:24.3	148.0	29.3					
WERD	e PKPbc	Z 19:00:23.7	148.0	29.0					
GUNZ	e PKPbc	Z 19:00:24.0	148.1	29.2					
NOTT	e PKPbc	Z 19:00:25.5	148.6	29.2					
GEC2	e PKPbc	Z 19:00:26.3	148.9	32.7					

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/02 18:50:49.9 22.320S 176.640W 33.0N
South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 19:10:31.9	147.9	12.2					
HLG	e PKPbc	Z 19:10:32.7	148.0	7.9					
RUE	e PKPbc	Z 19:10:33.9	148.8	18.8					
	e PKPab	Z 19:10:37.7							
NRDL	e PKPbc	Z 19:10:35.5	149.4	12.3					
IBBN	e PKPbc	Z 19:10:37.5	149.8	8.1					
CLZ	e PKPbc	Z 19:10:37.4	150.0	13.0					

	e	PKPab	Z	19:10:43.1					
CLL	e	PKPbc	Z	19:10:37.0	150.1	18.1			
	e	PKPab	Z	19:10:42.6					
BRG	e	PKPbc	Z	19:10:37.5	150.3	20.0			
	e	PKPab	Z	19:10:43.6					
BUG	e	PKPbc	Z	19:10:39.2	150.7	7.4			
	e	PKPab	Z	19:10:45.7					
MOX	e	PKPbc	Z	19:10:39.2	150.9	15.9			
WERD	e	PKPbc	Z	19:10:39.5	151.0	17.3			
UBBA	e	PKPbc	Z	19:10:39.0	151.0	12.8			
GUNZ	e	PKPbc	Z	19:10:39.8	151.1	17.4			
	e	PKPab	Z	19:10:47.4					
NOTT	e	PKPbc	Z	19:10:41.0	151.7	17.3			
	e	PKPab	Z	19:10:49.7					
TNS	e	PKPbc	Z	19:10:41.8	151.8	10.0			
	e	PKPab	Z	19:10:50.7					
GRA1	e	PKPbc	Z	19:10:41.7	151.9	15.6			
	e	PKPab	Z	19:10:51.2					
WET	e	PKPbc	Z	19:10:41.9	152.1	19.1			
	e	PKPab	Z	19:10:51.7					
GEC2	e	PKPbc	Z	19:10:41.9	152.2	20.9			
WLF	e	PKPbc	Z	19:10:43.9	152.6	5.6			
	e	PKPab	Z	19:10:53.6					
STU	e	PKPbc	Z	19:10:44.7	153.1	12.0			
	e	PKPab	Z	19:10:56.0					
FUR	e	PKPbc	Z	19:10:45.0	153.4	16.5			
	e	PKPab	Z	19:10:57.3					
BFO	e	PKPbc	Z	19:10:45.5	153.7	10.4			
	e	PKPab	Z	19:10:58.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/03	11:54:39.3	32.800S	179.200W	33.0N		5.2		EMSC-A

South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	PKPab	Z	12:15:12.4	159.5	30.4			
NOTT	e	PKPab	Z	12:15:20.5	161.0	30.5			
GRA1	e	PKPab	Z	12:15:22.1	161.4	28.5			
	e	PP	Z	12:19:01.7					
	e	L	Z	13:32:02.5			19.6	336	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/03	16:52:59.1	27.511N	56.342E	33.0N	4.5			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:00:37.5	40.8	105.9	1.1	12	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/03	17:10:21.3	2.520N	95.560E	29.3	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:22:42.2	82.7	94.5	0.9	7	4.9		
BRG	e P	Z	17:22:42.4	82.8	94.9	0.7	3	4.6		
RUE	e P	Z	17:22:44.0	83.0	95.0	0.9	14	5.2		
WET	e P	Z	17:22:45.2	83.3	93.9	0.9	4	4.7		
CLL	e P	Z	17:22:45.3	83.4	94.2	0.8	3	4.6		
NOTT	e P	Z	17:22:47.7	83.8	93.4	1.0	3	4.5		
MOX	e P	Z	17:22:49.8	84.2	93.1	0.9	2	4.4		
GRA1	e P	Z	17:22:51.3	84.4	92.7	0.9	8	4.9		
CLZ	e P	Z	17:22:53.5	85.0	92.2	0.9	7	4.9		
BSEG	e P	Z	17:22:54.4	85.2	92.4	0.9	5	4.8		
TNS	e P	Z	17:23:00.4	86.2	90.6	0.8	5	4.7		
BFO	e P	Z	17:22:59.9	86.3	90.4	0.8	4	4.6		
	e pP	Z	17:23:08.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/04	11:39:17.7	51.060N	178.810E	33.0N	5.0			SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:50:56.1	74.6	7.5	0.8	19	5.2		
IBBN	e P	Z	11:51:07.0	76.4	5.8	0.6	21	5.5		
CLZ	e P	Z	11:51:08.5	76.6	7.4	0.8	16	5.2		
CLL	e P	Z	11:51:09.4	76.9	9.1	0.8	8	4.9		
BUG	e P	Z	11:51:11.3	77.2	5.4	0.5	11	5.2		
BRG	e P	Z	11:51:11.4	77.3	9.7	0.7	6	4.8		
MOX	e P	Z	11:51:14.2	77.7	8.2	0.9	9	4.9		
WERD	e P	Z	11:51:15.1	77.8	8.6					
GUNZ	e P	Z	11:51:15.5	77.9	8.6	0.9	8	4.8		
TNS	e P	Z	11:51:17.9	78.4	6.2	0.7	7	4.8		
NOTT	e P	Z	11:51:18.0	78.5	8.5					
GRA1	e P	Z	11:51:20.2	78.7	7.9	0.7	16	5.2		
WET	e P	Z	11:51:22.0	79.1	9.0	0.9	6	4.6		
GEC2	e P	Z	11:51:22.9	79.3	9.5	0.7	5	4.6		
STU	e P	Z	11:51:24.8	79.8	6.6	0.5	12	5.1		

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

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 14:39:51.8							
	e Sn	E 14:40:18.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/04	16:46:20.9	19.480S	178.080W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 17:05:53.3	144.9	13.9					
RUE	e PKPbc	Z 17:05:55.9	145.7	20.1					
IBBN	e PKPbc	Z 17:05:59.4	146.9	10.1					
CLZ	e PKPbc	Z 17:06:00.0	147.0	14.7					
CLL	e PKPbc	Z 17:05:59.9	147.0	19.4					
BRG	e PKPbc	Z 17:06:00.6	147.2	21.3					
MOX	e PKPbc	Z 17:06:02.4	147.9	17.4					
WERD	e PKPbc	Z 17:06:02.8	148.0	18.7					
GUNZ	e PKPbc	Z 17:06:03.1	148.0	18.8					
NOTT	e PKPbc	Z 17:06:04.5	148.6	18.7					
TNS	e PKPbc	Z 17:06:05.0	148.8	11.9					
GRA1	e PKPbc	Z 17:06:05.3	148.9	17.2					
WET	e PKPbc	Z 17:06:05.8	149.1	20.4					
GEC2	e PKPbc	Z 17:06:05.7	149.1	22.0					
WLF	e PKPbc	Z 17:06:07.6	149.6	7.9					
FUR	e PKPbc	Z 17:06:09.0	150.3	18.0					
BFO	e PKPbc	Z 17:06:09.3	150.7	12.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/04	19:05:13.4	2.494N	126.415E	10.0N		5.5		NEIC-M
Northern Molucca Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e Pdiff	Z 19:19:05.9	101.5	70.2					
	e PP	Z 19:23:16.3							
BRG	e Pdiff	Z 19:19:07.6	102.0	70.7					
	e PP	Z 19:23:22.8							
CLL	e Pdiff	Z 19:19:09.1	102.4	69.8					
	e PP	Z 19:23:22.8							
GEC2	e Pdiff	Z 19:19:11.4	102.8	70.9					
	e PP	Z 19:23:28.0							
BSEG	e Pdiff	Z 19:19:11.8	102.9	67.0					
	e PP	Z 19:23:27.2							
WERD	e Pdiff	Z 19:19:12.5	103.1	69.4					

	e PP	Z	19:23:30.7								
GUNZ	e Pdiff	Z	19:19:12.8	103.1	69.5						
WET	e Pdiff	Z	19:19:13.3	103.2	70.2						
	e PP	Z	19:23:30.0								
NOTT	e Pdiff	Z	19:19:14.3	103.4	69.4						
	e PP	Z	19:23:34.2								
MOX	e Pdiff	Z	19:19:14.0	103.4	68.8						
	e PP	Z	19:23:31.4								
CLZ	e Pdiff	Z	19:19:16.2	103.7	67.5						
	e PP	Z	19:23:34.3								
GRA1	e Pdiff	Z	19:19:17.1	104.0	68.7						
	e PP	Z	19:23:38.4								
	e SP	E	19:32:52.1								
	e SS	E	19:38:34.4								
	e L	Z	20:08:09.4			27.6	2100		5.5		
FUR	e Pdiff	Z	19:19:20.0	104.5	69.1						
IBBN	e Pdiff	Z	19:19:22.0	105.0	65.2						
	e PP	Z	19:23:43.4								
TNS	e Pdiff	Z	19:19:24.1	105.4	66.3						
BFO	e Pdiff	Z	19:19:26.6	106.3	66.7						
	e PP	Z	19:23:54.2								
WLF	e Pdiff	Z	19:19:31.3	107.0	64.5						

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/04 21:35:40.3 23.020S 176.190W 33.0N
 South of Fiji Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:55:24.8	148.7	11.6					
IBBN	e PKPbc	Z	21:55:29.3	150.6	7.4					
	e PKPab	Z	21:55:35.5							
CLZ	e PKPdf	Z	21:55:24.5	150.7	12.4					
	e PKPbc	Z	21:55:30.1							
	e PKPab	Z	21:55:36.4							
CLL	e PKPdf	Z	21:55:24.7	150.8	17.6					
	e PKPbc	Z	21:55:30.1							
	e PKPab	Z	21:55:36.4							
BRG	e PKPdf	Z	21:55:24.8	151.1	19.5					
	e PKPbc	Z	21:55:30.8							
	e PKPab	Z	21:55:37.7							
MOX	e PKPdf	Z	21:55:26.1	151.7	15.3					
	e PKPbc	Z	21:55:32.2							
	e PKPab	Z	21:55:40.5							
WERD	e PKPdf	Z	21:55:25.6	151.8	16.7					
	e PKPbc	Z	21:55:32.4							
	e PKPab	Z	21:55:40.5							
GUNZ	e PKPdf	Z	21:55:26.2	151.9	16.8					

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	e	PKPab	Z	21:55:41.0		
NOTT	e	PKPbc	Z	21:55:33.8	152.4	16.7
	e	PKPab	Z	21:55:43.3		
TNS	e	PKPbc	Z	21:55:34.1	152.6	9.3
	e	PKPab	Z	21:55:43.9		
GRA1	e	PKPdf	Z	21:55:27.3	152.7	15.0
	e	PKPbc	Z	21:55:34.6		
	e	PKPab	Z	21:55:44.9		
WET	e	PKPdf	Z	21:55:27.7	152.9	18.6
	e	PKPbc	Z	21:55:34.7		
	e	PKPab	Z	21:55:45.7		
GEC2	e	PKPdf	Z	21:55:27.6	153.0	20.4
	e	PKPbc	Z	21:55:34.8		
	e	PKPab	Z	21:55:45.9		
WLF	e	PKPdf	Z	21:55:28.6	153.3	4.8
	e	PKPbc	Z	21:55:36.2		
	e	PKPab	Z	21:55:48.0		
STU	e	PKPdf	Z	21:55:29.5	153.9	11.3
	e	PKPbc	Z	21:55:37.2		
	e	PKPab	Z	21:55:49.4		
FUR	e	PKPdf	Z	21:55:28.9	154.2	15.9
	e	PKPbc	Z	21:55:37.5		
	e	PKPab	Z	21:55:50.6		
BFO	e	PKPbc	Z	21:55:38.1	154.4	9.7
	e	PKPab	Z	21:55:51.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/05	18:03:19.2	21.340S	177.800W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e	PKPbc	Z 18:23:03.3	148.8	14.8					
CLL	e	PKPbc	Z 18:23:03.4	148.9	19.7					
BRG	e	PKPbc	Z 18:23:03.9	149.1	21.6					
MOX	e	PKPbc	Z 18:23:05.5	149.8	17.6					
TANN	e	PKPbc	Z 18:23:06.3	149.8	19.3					
WERD	e	PKPbc	Z 18:23:05.7	149.8	19.0					
GUNZ	e	PKPbc	Z 18:23:06.1	149.9	19.1					
NOTT	e	PKPbc	Z 18:23:07.3	150.5	19.0					
TNS	e	PKPbc	Z 18:23:08.1	150.7	12.0					
WET	e	PKPbc	Z 18:23:09.1	150.9	20.8					
GEC2	e	PKPbc	Z 18:23:08.5	151.0	22.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/05	19:06:56.1	23.546N	120.799E	33.0N	5.8	5.9		SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 19:19:08.3	81.2	62.5	1.1	76	5.7		
BRG	e P	Z 19:19:11.8	81.8	62.4	1.8	110	5.7		
CLL	e P	Z 19:19:13.0	82.1	61.8	0.9	50	5.7		
BSEG	e P	Z 19:19:15.2	82.3	60.1	1.5	90	5.8		
GEC2	e P	Z 19:19:17.8	82.9	62.0	1.3	73	5.8		
WERD	e P	Z 19:19:17.6	82.9	61.2	1.6	75	5.7		
GUNZ	e P	Z 19:19:17.9	83.0	61.2	1.5	103	5.8		
MOX	e P	Z 19:19:19.1	83.2	60.7	1.5	80	5.7		
WET	e P	Z 19:19:19.7	83.2	61.4	1.7	110	5.8		
CLZ	e P	Z 19:19:19.7	83.3	59.9	1.5	134	5.9		
NOTT	e P	Z 19:19:20.2	83.4	61.0	1.5	109	5.9		
GRA1	e P	Z 19:19:23.1	83.9	60.3	1.5	187	6.1		
	e S	E 19:30:07.3							
	e L	Z 20:01:07.6			21.4	5075		5.9	
IBBN	e P	Z 19:19:25.0	84.4	57.9	1.7	137	5.9		
FUR	e P	Z 19:19:27.1	84.6	60.2	1.1	231	6.3		
BUG	e P	Z 19:19:29.7	85.2	57.5	1.4	56	5.6		
TNS	e P	Z 19:19:29.2	85.2	58.3	1.5	67	5.6		
STU	e P	Z 19:19:30.7	85.5	58.8	1.8	160	5.8		
BFO	e P	Z 19:19:34.1	86.2	58.1	1.8	105	5.7		
WLF	e P	Z 19:19:36.8	86.7	56.6	1.3	135	5.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/06 05:01:36.4 84.100N 76.440E 33.0N 5.1 SZGRF
North of Severnaya Zemlya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 05:08:18.9	34.0	9.7	1.2	52	5.3		
IBBN	e P	Z 05:08:35.2	35.9	9.4	2.0	126	5.4		
CLZ	e P	Z 05:08:37.1	36.1	9.2	1.4	67	5.3		
CLL	e P	Z 05:08:38.3	36.4	8.9	1.4	41	5.0		
BRG	e P	Z 05:08:41.7	36.7	8.8	1.8	77	5.1		
BUG	e P	Z 05:08:42.7	36.8	9.2	1.2	28	4.9		
MOX	e P	Z 05:08:45.6	37.2	8.9	1.3	60	5.2		
WERD	e P	Z 05:08:46.7	37.3	8.8	1.9	102	5.2		
GUNZ	e P	Z 05:08:47.5	37.4	8.8	1.2	59	5.2		
TNS	e P	Z 05:08:51.2	37.9	8.9	2.2	111	5.2		
NOTT	e P	Z 05:08:52.3	37.9	8.7	1.2	39	5.0		
GRA1	e P	Z 05:08:54.3	38.1	8.7	1.3	89	5.3		
WET	e P	Z 05:08:57.4	38.5	8.5	2.1	110	5.1		
WLF	e P	Z 05:08:58.3	38.7	8.9	2.0	69	4.9		
GEC2	e P	Z 05:08:58.9	38.7	8.4	1.3	44	4.9		
STU	e P	Z 05:09:03.0	39.3	8.6	1.2	51	5.0		
FUR	e P	Z 05:09:06.7	39.7	8.4	1.2	67	5.1		

BFO e P Z 05:09:07.6 39.8 8.6 1.4 30 4.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/06 05:21:59.3 84.550N 81.910E 32.0 6.0 5.8
 North of Severnaya Zemlya SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 05:28:40.5	33.8	9.1	1.4	827	6.5		
HLG	e P	Z 05:28:47.9	34.7	9.2	2.3	2012	6.6		
BSEG	e P	Z 05:28:48.1	34.7	9.1	1.2	392	6.2		
RUE	e P	Z 05:28:57.3	35.8	8.7	1.4	371	6.0		
IBBN	e P	Z 05:29:03.7	36.5	8.8	2.5	2275	6.5		
CLZ	e P	Z 05:29:06.0	36.7	8.7	1.3	571	6.1		
CLL	e P	Z 05:29:07.3	37.0	8.5	1.4	333	5.9		
BRG	e P	Z 05:29:10.4	37.4	8.3	1.5	368	5.9		
BUG	e P	Z 05:29:10.9	37.4	8.7	1.2	229	5.8		
MOX	e P	Z 05:29:14.6	37.8	8.4	1.3	512	6.1		
WERD	e P	Z 05:29:15.7	37.9	8.3	1.5	542	6.0		
GUNZ	e P	Z 05:29:16.5	38.0	8.3	1.1	332	6.0		
TNS	e P	Z 05:29:20.6	38.5	8.4	1.6	423	5.8		
NOTT	e P	Z 05:29:21.3	38.6	8.2	1.1	333	5.9		
GRA1	e P	Z 05:29:23.1	38.8	8.2	1.2	521	6.0		
	e pP	Z 05:29:31.7							
	e sP	Z 05:29:34.9							
	e PP	Z 05:31:01.1							
	e S	E 05:35:38.9							
	e L	Z 05:45:36.6			20.9	15487		5.8	
GRFO	e P	Z 05:29:23.1	38.8	8.2	1.2	473	6.0		
WET	e P	Z 05:29:26.4	39.2	8.1	1.6	441	5.8		
WLF	e P	Z 05:29:27.1	39.3	8.4	1.6	495	5.9		
GEC2	e P	Z 05:29:28.2	39.4	8.0	1.4	405	5.8		
STU	e P	Z 05:29:31.8	39.9	8.1	1.2	351	5.9		
FUR	e P	Z 05:29:35.4	40.3	8.0	2.3	1664	6.3		
BFO	e P	Z 05:29:36.1	40.4	8.1	1.5	291	5.8		
	e pP	Z 05:29:44.7							

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/06 06:18: 8.0 48.809N 67.216W 33.0N 5.0
 Gaspe Peninsula, Canada SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 06:26:28.7	46.2	297.0	1.6	45	5.2		
TNS	e P	Z 06:26:36.0	46.9	299.2	1.5	34	5.3		
CLZ	e P	Z 06:26:38.3	47.2	298.8	1.0	14	5.0		
BFO	e P	Z 06:26:42.1	47.8	300.6	0.8	11	5.0		

STU	e P	Z	06:26:44.6	48.1	300.7	0.8	11	5.0
MOX	e P	Z	06:26:47.8	48.5	300.4	1.1	10	4.8
RUE	e P	Z	06:26:49.5	48.7	300.1			
GRA1	e P	Z	06:26:49.9	48.8	300.9	1.5	31	5.1
CLL	e P	Z	06:26:50.5	48.9	300.6	0.8	7	4.7
WERD	e P	Z	06:26:51.3	49.0	300.9	1.4	17	4.9
GUNZ	e P	Z	06:26:51.8	49.0	300.9	1.9	50	5.2
NOTT	e P	Z	06:26:52.8	49.2	301.2			
BRG	e P	Z	06:26:56.2	49.6	301.3	1.0	12	4.8
WET	e P	Z	06:26:59.0	50.0	302.1	1.5	19	4.8
GEC2	e P	Z	06:27:03.6	50.6	302.7	1.8	24	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/06	07:12:19.5	84.440N	92.970E	33.0N	4.2			SZGRF
North of Severnaya Zemlya								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 07:19:16.9	35.7	9.5	0.9	9	4.6		
CLZ	e P	Z 07:19:34.6	37.8	9.0	0.9	8	4.4		
CLL	e P	Z 07:19:35.8	38.1	8.9	0.9	3	4.1		
BRG	e P	Z 07:19:38.8	38.4	8.8	1.0	4	4.0		
MOX	e P	Z 07:19:43.0	38.8	8.8	0.8	7	4.3		
NOTT	e P	Z 07:19:49.7	39.6	8.6	0.8	6	4.3		
GRA1	e P	Z 07:19:51.5	39.8	8.6	0.8	9	4.4		
WET	e P	Z 07:19:54.7	40.2	8.5	0.8	3	3.9		
GEC2	e P	Z 07:19:56.7	40.4	8.4	0.9	3	4.0		
STU	e P	Z 07:20:00.3	40.9	8.5	1.0	10	4.5		
BFO	e P	Z 07:20:04.1	41.5	8.4	1.0	5	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/06	08:25: 2.1	84.070N	83.030E	28.9	4.9			SZGRF
North of Severnaya Zemlya								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 08:31:51.0	34.7	10.0	1.4	42	5.2		
CLZ	e P	Z 08:32:08.9	36.8	9.5	1.2	44	5.1		
CLL	e P	Z 08:32:10.2	37.0	9.3	1.8	63	5.0		
BRG	e P	Z 08:32:12.7	37.4	9.2	1.9	73	5.1		
BUG	e P	Z 08:32:15.2	37.5	9.5	1.2	27	4.9		
MOX	e P	Z 08:32:17.5	37.8	9.2	2.1	158	5.4		
WERD	e P	Z 08:32:18.7	37.9	9.1	1.8	78	5.1		
GUNZ	e P	Z 08:32:19.5	38.0	9.1	1.2	43	5.0		
TNS	e P	Z 08:32:23.6	38.6	9.2	1.1	21	4.7		
NOTT	e P	Z 08:32:24.2	38.6	9.0	1.1	34	4.9		
GRA1	e P	Z 08:32:26.1	38.8	9.0	1.2	68	5.1		

	e pP	Z	08:32:33.6								
WET	e P	Z	08:32:29.4	39.2	8.8	1.4	30	4.7			
WLF	e P	Z	08:32:30.0	39.3	9.1	1.2	36	4.9			
GEC2	e P	Z	08:32:31.1	39.4	8.8	1.6	65	5.0			
STU	e P	Z	08:32:34.7	39.9	8.9	1.3	49	5.0			
BFO	e P	Z	08:32:39.0	40.4	8.8	1.4	31	4.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/06	08:38:10.0	37.400N	43.600E	21.0N	4.2			KAN-M

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:43:47.6	26.2	105.6	1.0	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/06	17:22:30.4	25.070S	170.210E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 17:42:10.4	147.5	35.4					
BRG	e PKPbc	Z 17:42:13.0	148.4	44.1					
CLL	e PKPbc	Z 17:42:13.4	148.5	42.2					
CLZ	e PKPbc	Z 17:42:15.9	149.2	37.5					
WERD	e PKPbc	Z 17:42:16.3	149.4	42.1					
GUNZ	e PKPbc	Z 17:42:16.3	149.5	42.2					
MOX	e PKPbc	Z 17:42:16.4	149.6	40.8					
IBBN	e PKPbc	Z 17:42:16.7	149.7	32.8					
GEC2	e PKPbc	Z 17:42:17.5	150.0	46.2					
NOTT	e PKPbc	Z 17:42:17.4	150.0	42.5					
WET	e PKPbc	Z 17:42:17.8	150.1	44.5					
GRA1	e PKPbc	Z 17:42:18.4	150.5	41.2					
STU	e PKPbc	Z 17:42:22.6	152.0	38.9					
BFO	e PKPbc	Z 17:42:23.7	152.7	37.9					

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

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 18:52:35.2							
CLL	e PKP	Z 18:52:34.3							
CLZ	e PKP	Z 18:52:34.7							
IBBN	e PKP	Z 18:52:34.2							
NOTT	e PKP	Z 18:52:39.7							

TNS e PKP Z 18:52:42.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/06 21:46:21.1 45.557N 14.471E 10.0G 3.1 SZGRF
 Northwestern Balkan Peninsula

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 21:47:13.1	3.3	170.7					3.1
	e Sn	E 21:47:52.1							
WET	e Pn	Z 21:47:18.6	3.7	162.7					3.2
	e Sn	N 21:48:03.1							
NOTT	e Pn	Z 21:47:29.5	4.5	158.7					3.1
	e Sn	N 21:48:20.5							
TANN	e Sn	E 21:48:32.8	5.0	163.8					
MOX	e Pn	Z 21:47:41.9	5.4	158.4					
	e Sn	N 21:48:42.2							

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

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:35:22.8							

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/07 02:34:50.2 43.890N 127.320W 16.1 4.9 4.8 3.1 SZGRF
 Off coast of Oregon, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e pP	Z 02:46:46.3	76.9	328.2	1.0	10			
CLZ	e pP	Z 02:46:49.8	77.5	330.2	1.1	14			
RUE	e pP	Z 02:46:52.4	78.0	332.4	0.9	17			
TNS	e P	Z 02:46:48.2	78.3	329.1	1.5	24	5.0		
	e pP	Z 02:46:53.7							
CLL	e P	Z 02:46:50.9	78.8	332.0	1.5	21	5.0		
	e pP	Z 02:46:55.8							
BRG	e P	Z 02:46:54.5	79.5	332.7	1.3	19	4.9		
	e pP	Z 02:46:59.8							
GRA1	e P	Z 02:46:56.3	79.7	331.0	1.3	34	5.1		
	e pP	Z 02:47:00.9							
	e L	Z 03:21:55.4			21.6	516		4.8	
STU	e pP	Z 02:47:02.0	79.8	329.7	0.8	12			
BFO	e P	Z 02:46:56.9	79.9	329.2	1.6	26	4.9		
WET	e P	Z 02:47:00.9	80.7	332.1	1.4	8	4.6		

e pP Z 02:47:06.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/07 02:47:53.1
 Off coast of California, United States SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 03:00:35.4 1.6 14

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/07 03:44:30.5
 East of Severnaya Zemlya SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 BSEG e P Z 03:52:03.6 40.0 13.0 2.0 74 5.1
 CLZ e P Z 03:52:20.8 42.0 12.5 1.8 79 5.0
 CLL e P Z 03:52:21.1 42.2 12.6 1.8 41 4.8
 BRG e P Z 03:52:23.9 42.5 12.6 1.7 24 4.5
 BUG e P Z 03:52:27.3 42.8 12.0 1.0 13 4.6
 MOX e P Z 03:52:28.6 43.0 12.3 1.2 13 4.6
 WERD e P Z 03:52:29.5 43.1 12.4 1.5 24 4.7
 GUNZ e P Z 03:52:30.3 43.2 12.3 1.6 32 4.8
 NOTT e P Z 03:52:34.9 43.8 12.2 1.7 31 4.8
 TNS e P Z 03:52:35.4 43.8 11.9 1.4 13 4.5
 GRA1 e P Z 03:52:37.0 44.0 12.1 1.9 58 5.0
 e 03:52:47.9
 e 03:52:53.8
 e S N 03:59:09.0
 e SS E 04:02:32.4
 e L Z 04:10:35.1 21.7 607 4.5
 WET e P Z 03:52:39.6 44.3 12.1 1.7 20 4.6
 GEC2 e P Z 03:52:41.0 44.5 12.1 1.3 18 4.7
 STU e P Z 03:52:46.0 45.2 11.7 0.9 16 4.8
 BFO e P Z 03:52:50.3 45.7 11.5 1.9 39 4.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/07 07:17:32.7
 Nicaragua SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 07:29:53.9 84.2 280.9 1.3 18 5.1
 e pP Z 07:30:17.5
 e S E 07:40:19.4

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	e L	Z	08:04:21.4			21.7	658	5.0			
WERD	e P	Z	07:29:55.8	84.7	281.6	1.1	10	5.0			
NOTT	e P	Z	07:29:56.9	84.7	281.6						
GUNZ	e P	Z	07:29:56.3	84.7	281.7	1.4	16	5.1			
CLL	e P	Z	07:29:56.4	84.9	282.1	1.0	13	5.1			
WET	e P	Z	07:29:59.2	85.3	282.2	1.2	14	5.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2005/03/07											

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:16:07.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2005/03/07	20:00:29.7	15.901S	173.420W	33.0N				SZGRF			
Tonga Islands											

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 20:19:58.9	143.9	6.2					
CLL	e PKPbc	Z 20:19:58.7	144.2	10.6					
BUG	e PKPbc	Z 20:20:00.0	144.5	1.1					
BRG	e PKPbc	Z 20:20:00.1	144.5	12.3					
MOX	e PKPbc	Z 20:20:01.8	145.0	8.5					
WERD	e PKPbc	Z 20:20:02.3	145.1	9.7					
GUNZ	e PKPbc	Z 20:20:02.7	145.2	9.7					
TNS	e PKPbc	Z 20:20:04.1	145.6	3.2					
NOTT	e PKPbc	Z 20:20:04.8	145.8	9.5					
GRA1	e PKPbc	Z 20:20:05.6	146.0	8.0					
	e	20:20:20.2							
WLF	e PKPbc	Z 20:20:06.4	146.2	359.3					
WET	e PKPbc	Z 20:20:06.6	146.4	11.0					
GEC2	e PKPbc	Z 20:20:06.8	146.5	12.5					
STU	e PKPbc	Z 20:20:08.3	147.1	4.6					
FUR	e PKPbc	Z 20:20:09.6	147.5	8.4					
BFO	e PKPbc	Z 20:20:09.2	147.5	3.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2005/03/07	21:21:48.7	84.020N	83.370E	33.0N	4.6			SZGRF			
North of Severnaya Zemlya											

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 21:28:38.4	34.7	10.1	1.1	14	4.8		
CLZ	e P	Z 21:28:56.0	36.8	9.6	1.4	17	4.6		

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CLL	e P	Z	21:28:57.7	37.0	9.4	1.5	17	4.5
BRG	e P	Z	21:29:00.7	37.4	9.2	1.4	11	4.4
BUG	e P	Z	21:29:02.6	37.5	9.6			
MOX	e P	Z	21:29:04.3	37.8	9.3	1.3	21	4.7
WERD	e P	Z	21:29:05.7	38.0	9.2	1.2	9	4.4
GUNZ	e P	Z	21:29:06.5	38.0	9.2	1.0	12	4.6
NOTT	e P	Z	21:29:11.3	38.6	9.1	1.0	10	4.4
GRA1	e P	Z	21:29:13.0	38.8	9.1	1.2	31	4.8
GEC2	e P	Z	21:29:18.1	39.4	8.9	1.8	22	4.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/07	21:32:50.7							SZGRF
North of Severnaya Zemlya								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:44:25.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/08	04:45:58.8	55.840N	158.550E	33.0N	4.8			SZGRF
Kamchatka Peninsula, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 04:56:53.2	67.2	18.7	0.7	6	5.0		
CLL	e P	Z 04:57:05.0	69.1	19.9	1.0	13	5.1		
CLZ	e P	Z 04:57:05.7	69.2	18.5	0.9	10	5.0		
BRG	e P	Z 04:57:06.4	69.3	20.3	1.2	5	4.5		
MOX	e P	Z 04:57:10.6	70.0	19.0	0.6	4	4.8		
WERD	e P	Z 04:57:11.4	70.1	19.4	0.9	5	4.7		
GUNZ	e P	Z 04:57:11.3	70.2	19.4	1.0	7	4.7		
NOTT	e P	Z 04:57:15.1	70.7	19.2	0.9	4	4.5		
GRA1	e P	Z 04:57:16.6	71.0	18.7	0.9	11	5.0		
TNS	e P	Z 04:57:16.7	71.1	17.2	0.6	5	4.8		
WET	e P	Z 04:57:18.0	71.2	19.5	1.0	5	4.6		
GEC2	e P	Z 04:57:18.3	71.3	20.0	0.9	5	4.6		
STU	e P	Z 04:57:25.0	72.3	17.5	0.8	14	5.2		
BFO	e P	Z 04:57:28.0	72.9	17.0	1.0	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/08	04:52: 0.0	54.510N	157.710E	45.5	5.1			SZGRF
Kamchatka Peninsula, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 05:02:58.6	68.3	19.7	1.1	18	5.2		

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RUE	e P	Z	05:03:02.8	68.9	21.5	1.0	26	5.4
	e pP	Z	05:03:15.5					
CLL	e P	Z	05:03:09.6	70.2	20.9	0.9	21	5.3
	e pP	Z	05:03:22.7					
CLZ	e P	Z	05:03:10.2	70.2	19.4	1.0	28	5.3
IBBN	e P	Z	05:03:10.6	70.3	18.0	0.8	20	5.3
BRG	e P	Z	05:03:11.3	70.4	21.4	1.3	14	4.9
MOX	e P	Z	05:03:15.4	71.1	20.0	1.0	13	5.0
WERD	e P	Z	05:03:15.8	71.1	20.4	0.9	12	5.0
GUNZ	e P	Z	05:03:16.3	71.2	20.4	1.0	8	4.8
NOTT	e P	Z	05:03:19.6	71.8	20.2	1.1	6	4.7
GRA1	e P	Z	05:03:21.7	72.1	19.7	1.0	22	5.3
TNS	e P	Z	05:03:21.4	72.2	18.2	0.8	9	5.0
WET	e P	Z	05:03:22.8	72.2	20.6	0.9	12	5.0
	e pP	Z	05:03:35.9					
GEC2	e P	Z	05:03:22.8	72.3	21.0	0.9	10	4.9
WLF	e P	Z	05:03:28.4	73.1	16.8	1.2	20	5.1
STU	e P	Z	05:03:29.7	73.4	18.4	0.5	16	5.3
BFO	e P	Z	05:03:32.5	74.0	17.9	1.4	19	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/08	06:38:21.6	22.200S	170.710E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 06:57:53.8	145.0	32.8					
BRG	e PKPbc	Z 06:57:57.5	146.1	40.9					
CLL	e PKPbc	Z 06:57:57.1	146.1	39.1					
CLZ	e PKPbc	Z 06:57:59.6	146.7	34.6					
WERD	e PKPbc	Z 06:58:00.9	147.1	38.8					
GUNZ	e PKPbc	Z 06:58:01.2	147.1	39.0					
IBBN	e PKPbc	Z 06:58:01.2	147.2	30.0					
MOX	e PKPbc	Z 06:58:00.9	147.2	37.6					
NOTT	e PKPbc	Z 06:58:02.7	147.7	39.2					
GEC2	e PKPbc	Z 06:58:02.6	147.7	42.6					
WET	e PKPbc	Z 06:58:03.1	147.9	41.0					
GRA1	e PKP	Z 06:58:04.1	148.1	37.9					
TNS	e PKPbc	Z 06:58:05.9	148.7	32.9					
STU	e PKPbc	Z 06:58:08.3	149.6	35.5					
WLF	e PKPbc	Z 06:58:08.6	150.0	29.5					
BFO	e PKPbc	Z 06:58:09.8	150.3	34.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/08	16:00:16.1	5.682N	73.310W	33.0N	4.5			SZGRF
Colombia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:12:33.9	82.1	269.5	1.0	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/08	23:58:42.3	52.490N	142.050E	33.0N	5.2			SZGRF

Sakhalin Island, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:09:30.3	66.3	29.8	1.1	20	5.2		
RUE	e P	Z 00:09:31.4	66.5	31.4	1.0	41	5.6		
CLL	e P	Z 00:09:38.9	67.7	30.7	0.9	40	5.6		
BRG	e P	Z 00:09:39.2	67.8	31.2	0.9	9	5.0		
CLZ	e P	Z 00:09:41.8	68.1	29.4	1.1	31	5.4		
IBBN	e P	Z 00:09:43.7	68.4	27.9	0.7	18	5.4		
WERD	e P	Z 00:09:45.4	68.7	30.2	1.2	23	5.3		
MOX	e P	Z 00:09:45.4	68.7	29.8	1.1	18	5.2		
GUNZ	e P	Z 00:09:45.6	68.7	30.2	1.3	17	5.1		
NOTT	e P	Z 00:09:49.1	69.3	29.9	1.0	11	5.0		
GEC2	e P	Z 00:09:50.9	69.6	30.6	1.1	9	4.8		
WET	e P	Z 00:09:51.4	69.6	30.2	1.0	17	5.1		
GRA1	e P	Z 00:09:51.7	69.7	29.4	1.0	34	5.4		
TNS	e P	Z 00:09:54.0	70.1	28.0	1.2	16	5.0		
FUR	e P	Z 00:10:00.0	71.0	29.2	1.2	29	5.3		
STU	e P	Z 00:09:59.9	71.1	28.1	0.9	10	5.0		
BFO	e P	Z 00:10:04.0	71.8	27.6	1.1	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	08:11:37.0	34.880N	21.880E	33.0N	4.3	3.7		SZGRF

Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 08:15:12.2	15.2	153.6	0.7	7			
FUR	e P	Z 08:15:15.1	15.4	145.5	0.9	34			
WET	e P	Z 08:15:18.9	15.7	151.7	1.8	27			
NOTT	e P	Z 08:15:27.2	16.5	150.8	1.1	9			
GRA1	e P	Z 08:15:29.7	16.7	148.2	1.3	30			
	e L	Z 08:25:18.9			19.1	438		3.7	
BFO	e P	Z 08:15:30.4	16.8	138.3	1.4	24	4.1		
GUNZ	e P	Z 08:15:32.4	17.0	152.2	1.3	26			
BRG	e P	Z 08:15:32.5	17.0	157.2	0.7	12	4.1		
WERD	e P	Z 08:15:33.5	17.1	152.3	1.5	27			
MOX	e P	Z 08:15:37.0	17.4	150.8	1.4	14			
CLL	e P	Z 08:15:39.6	17.6	155.3	1.6	39	4.3		
TNS	e P	Z 08:15:45.6	18.2	142.4	1.3	51			

BSEG	e P	Z	08:16:13.1	20.7	152.3	1.3	72	4.8
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	09:08:12.4	31.697N	71.751E	33.0N	4.6			SZGRF

Pakistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:16:47.1	47.8	88.4	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	09:37:19.4	21.160S	179.020W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 09:57:02.3	148.4	12.1					
CLL	e PKPbc	Z 09:57:01.8	148.4	21.8					
CLZ	e PKPbc	Z 09:57:02.2	148.5	16.9					
BRG	e PKPbc	Z 09:57:02.5	148.6	23.7					
MOX	e PKPbc	Z 09:57:04.4	149.4	19.7					
WERD	e PKPbc	Z 09:57:04.7	149.4	21.1					
GUNZ	e PKPbc	Z 09:57:05.0	149.5	21.2					
NOTT	e PKPbc	Z 09:57:06.4	150.0	21.1					
GRA1	e PKPbc	Z 09:57:07.4	150.3	19.6					
TNS	e PKPbc	Z 09:57:07.0	150.3	14.2					
WET	e PKPbc	Z 09:57:07.4	150.5	22.9					
GEC2	e PKPbc	Z 09:57:07.6	150.5	24.7					
WLF	e PKPbc	Z 09:57:09.2	151.2	10.1					
STU	e PKPbc	Z 09:57:10.2	151.6	16.3					
FUR	e PKPbc	Z 09:57:10.8	151.8	20.6					
BFO	e PKPbc	Z 09:57:11.5	152.2	14.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	10:15:34.9	26.842S	26.397E	33.0N	5.0			SZGRF

South Africa

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:27:28.9	77.7	166.2	0.9	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	13:02: 4.6	22.740S	169.220E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:21:36.6	145.0	35.4					
BRG	e PKPbc	Z	13:21:39.8	145.9	43.5					
CLL	e PKPbc	Z	13:21:39.8	146.0	41.7					
CLZ	e PKPbc	Z	13:21:42.5	146.7	37.3					
WERD	e PKPbc	Z	13:21:43.3	147.0	41.6					
GUNZ	e PKPbc	Z	13:21:43.7	147.0	41.7					
MOX	e PKPbc	Z	13:21:43.6	147.1	40.3					
GEC2	e PKPbc	Z	13:21:45.1	147.5	45.3					
NOTT	e PKPbc	Z	13:21:45.0	147.5	41.9					
WET	e PKPbc	Z	13:21:45.6	147.7	43.8					
GRA1	e PKPbc	Z	13:21:46.3	148.0	40.7					
BUG	e PKPbc	Z	13:21:47.3	148.1	32.7					
TNS	e PKPbc	Z	13:21:48.2	148.7	35.7					
STU	e PKPbc	Z	13:21:50.8	149.5	38.4					
BFO	e PKPbc	Z	13:21:52.1	150.2	37.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	18:23: 5.7	31.972N	5.558E	33.0G	4.3	3.9		SZGRF

Northern Algeria

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z	18:26:56.4	16.8	197.0	1.0	30	4.4		
GEC2	e P	Z	18:27:10.6	18.0	202.9	0.9	27	4.4		
WET	e P	Z	18:27:11.8	18.0	200.4	1.5	40	4.3		
GRA1	e P	Z	18:27:14.9	18.2	195.5	1.2	24	4.2		
	e L	Z	18:32:09.5			19.5	644		3.9	
TNS	e P	Z	18:27:15.5	18.4	187.8	0.8	20	4.3		
NOTT	e P	Z	18:27:17.5	18.5	197.8	1.8	44	4.3		
GUNZ	e P	Z	18:27:23.9	19.1	197.8	1.1	33	4.5		
WERD	e P	Z	18:27:25.1	19.1	197.7	1.2	25	4.3		
MOX	e P	Z	18:27:25.9	19.2	195.8	1.0	29	4.5		
BRG	e P	Z	18:27:33.7	19.9	201.3	0.9	15	4.2		
CLL	e P	Z	18:27:35.9	20.1	198.7	1.2	24	4.3		
CLZ	e P	Z	18:27:37.0	20.2	191.9	1.3	30	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	18:27:31.7	3.320N	93.910E	37.5	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:39:43.3	81.1	95.2	1.3	101	5.7		
BRG	e P	Z	18:39:43.2	81.1	95.7	1.1	40	5.3		
WET	e P	Z	18:39:46.3	81.6	94.6	1.2	40	5.4		

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CLL	e P	Z	18:39:46.0	81.7	95.0	1.1	27	5.3
GUNZ	e P	Z	18:39:49.0	82.1	94.4	1.1	31	5.3
WERD	e P	Z	18:39:48.9	82.1	94.4	1.1	27	5.3
NOTT	e P	Z	18:39:49.6	82.2	94.1	1.2	19	5.1
MOX	e P	Z	18:39:50.3	82.5	93.9	1.6	54	5.5
GRA1	e P	Z	18:39:52.3	82.7	93.4	1.1	57	5.7
	e pP	Z	18:40:03.2					
CLZ	e P	Z	18:39:55.7	83.4	93.0	1.1	36	5.5
BSEG	e P	Z	18:39:56.0	83.5	93.2	0.9	24	5.4
TNS	e P	Z	18:40:01.6	84.5	91.4	1.1	38	5.5
BFO	e P	Z	18:40:00.5	84.6	91.1	1.2	18	5.2
BUG	e P	Z	18:40:05.5	85.3	90.6	0.9	16	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	20:27: 6.1	19.490S	178.160W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:46:38.5	144.9	14.0					
RUE	e PKPbc	Z	20:46:41.1	145.7	20.3					
CLZ	e PKPbc	Z	20:46:45.2	147.0	14.9					
CLL	e PKPbc	Z	20:46:45.0	147.0	19.6					
BRG	e PKPbc	Z	20:46:45.4	147.2	21.4					
MOX	e PKPbc	Z	20:46:47.6	147.9	17.5					
WERD	e PKPbc	Z	20:46:47.8	147.9	18.8					
GUNZ	e PKPbc	Z	20:46:48.1	148.0	18.9					
NOTT	e PKPbc	Z	20:46:49.8	148.6	18.8					
TNS	e PKPbc	Z	20:46:50.3	148.8	12.1					
GRA1	e PKPbc	Z	20:46:50.5	148.9	17.3					
WET	e PKPbc	Z	20:46:50.8	149.1	20.5					
GEC2	e PKPbc	Z	20:46:51.1	149.1	22.2					
WLF	e PKPbc	Z	20:46:52.7	149.6	8.1					
STU	e PKPbc	Z	20:46:53.5	150.1	14.0					
FUR	e PKPbc	Z	20:46:54.3	150.3	18.2					
BFO	e PKPbc	Z	20:46:54.5	150.7	12.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/09	21:12:28.5	36.897N	92.624E	20.6				SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:22:15.8	57.6	69.4	1.4	9	4.6		
	e pP	Z	21:22:21.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/10	00:28:28.8	85.040N	93.630E	33.0N	4.7	4.6		SZGRF

North of Severnaya Zemlya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:35:26.4	35.8	8.4	1.1	30	5.0		
RUE	e P	Z 00:35:35.8	36.9	8.1	1.5	27	4.8		
IBBN	e P	Z 00:35:42.0	37.6	8.1	1.7	34	4.8		
CLZ	e P	Z 00:35:44.4	37.8	8.0	1.2	29	4.9		
CLL	e P	Z 00:35:45.9	38.2	7.9	1.3	16	4.6		
BRG	e P	Z 00:35:49.1	38.5	7.9	2.5	78	4.9		
	e PcP	Z 00:38:00.1							
BUG	e P	Z 00:35:49.3	38.5	8.0	1.0	19	4.7		
MOX	e P	Z 00:35:53.1	38.9	7.8	1.3	26	4.7		
	e PP	Z 00:37:23.8							
WERD	e P	Z 00:35:54.3	39.1	7.8	1.5	30	4.7		
GUNZ	e P	Z 00:35:55.1	39.1	7.8	1.2	24	4.7		
TNS	e P	Z 00:35:59.1	39.6	7.8	1.3	18	4.5		
NOTT	e P	Z 00:35:59.9	39.7	7.7	1.4	28	4.7		
	e PP	N 00:37:31.7							
GRA1	e P	Z 00:36:01.6	39.9	7.7	1.4	43	4.9		
	e PP	Z 00:37:29.1							
	e PcP	Z 00:38:06.0							
	e S	N 00:42:15.0							
	e L	Z 00:49:49.2			26.8	1296		4.6	
GRFO	e P	Z 00:36:01.7	39.9	7.7	1.5	39	4.8		
	e PcP	Z 00:38:06.0							
WET	e P	Z 00:36:05.1	40.3	7.6	1.6	20	4.5		
WLF	e P	Z 00:36:05.3	40.4	7.7	1.5	23	4.7		
GEC2	e P	Z 00:36:06.9	40.5	7.5	1.4	18	4.6		
STU	e P	Z 00:36:10.3	41.0	7.5	0.8	14	4.7		
FUR	e P	Z 00:36:14.1	41.4	7.4	1.2	17	4.7		
BFO	e P	Z 00:36:14.7	41.5	7.5	2.1	38	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/10	03:23:24.1	85.234N	67.983E	27.2	4.8			SZGRF

North of Franz Josef Land

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:30:38.2	37.9	6.5	1.6	30	4.8		
	e pP	Z 03:30:45.4			1.6	30			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/10	13:37:44.7	12.836N	88.021W	65.8	4.7	4.6		SZGRF

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:50:22.6	86.1	285.3	1.5	9	4.7		
	e pP	Z 13:50:40.8							
	e L	Z 14:24:08.1			21.8	249		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/10								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:43:46.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/11	08:01: 2.4							SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:13:40.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/11	11:04: 6.2							SZGRF

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:07:41.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/11	12:59:58.2	8.050N	93.950E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:11:51.1	77.5	92.6	1.0	14	5.1		
GEC2	e P	Z 13:11:51.3	77.5	92.0	1.0	21	5.2		
RUE	e P	Z 13:11:51.6	77.6	92.9	0.8	24	5.4		
CLL	e P	Z 13:11:53.8	78.1	92.0	1.0	10	4.9		
WET	e P	Z 13:11:54.3	78.1	91.4	1.1	15	5.0		
GUNZ	e P	Z 13:11:56.3	78.5	91.3	1.1	12	4.8		
WERD	e P	Z 13:11:56.6	78.5	91.3	1.2	16	4.9		
NOTT	e P	Z 13:11:57.3	78.6	91.0	1.1	10	4.8		
MOX	e P	Z 13:11:58.8	78.9	90.8	1.5	21	4.9		

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GRA1	e P	Z	13:12:00.5	79.2	90.3	1.0	36	5.4
CLZ	e P	Z	13:12:03.4	79.7	90.0	1.0	14	4.9
BSEG	e P	Z	13:12:03.6	79.8	90.4	1.1	49	5.3
NRDL	e P	Z	13:12:04.0	79.9	89.9	1.9	72	5.3
TNS	e P	Z	13:12:10.5	80.9	88.3	1.3	19	5.0
BFO	e P	Z	13:12:10.2	81.1	87.9	0.9	11	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/11	18:47:34.4	43.000N	145.480E	54.6	5.0	5.1		SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 18:59:23.7	77.0	31.8					
CLL	e P	Z 18:59:23.4	77.1	33.6	0.7	14	5.2		
CLZ	e P	Z 18:59:26.6	77.5	31.9	0.9	14	5.1		
IBBN	e P	Z 18:59:28.7	77.9	30.2	1.1	17	5.1		
WERD	e P	Z 18:59:29.1	78.0	33.0	1.3	10	4.8		
GUNZ	e P	Z 18:59:29.6	78.1	33.0	0.1	23	6.2		
MOX	e P	Z 18:59:29.2	78.1	32.6	1.4	20	5.0		
NOTT	e P	Z 18:59:32.7	78.6	32.8	1.3	16	4.9		
GEC2	e P	Z 18:59:33.7	78.9	33.8	0.5	3	4.6		
WET	e P	Z 18:59:34.3	78.9	33.3	1.1	13	4.9		
GRA1	e P	Z 18:59:35.0	79.1	32.2	0.6	12	5.1		
	e pP	Z 18:59:50.4							
	e sP	Z 18:59:57.0							
	e L	Z 19:37:25.5			21.3	846		5.1	
TNS	e P	Z 18:59:37.3	79.5	30.5	1.0	8	4.6		
BFO	e P	Z 18:59:46.1	81.2	30.2	1.5	18	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/12	04:50:50.5	8.925N	93.041E	73.5	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:02:45.6	77.9	90.4	1.2	11	4.9		
	e pP	Z 05:03:05.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/12	07:36:21.9	39.760N	40.060E	35.5	5.7	4.9		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:41:01.6	20.8	106.0	1.5	214	5.3		

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BRG	e P	Z	07:41:06.8	21.3	111.3	2.3	666	5.6			
WET	e P	Z	07:41:07.5	21.4	105.7	1.9	451	5.5			
CLL	e P	Z	07:41:14.1	22.0	111.0	1.5	183	5.3			
RUE	e P	Z	07:41:13.7	22.0	114.8	1.6	693	5.8			
NOTT	e P	Z	07:41:14.7	22.1	106.4	1.8	291	5.4			
GUNZ	e P	Z	07:41:15.2	22.1	108.0	1.8	436	5.6			
WERD	e P	Z	07:41:15.1	22.1	108.1	1.9	304	5.4			
FUR	e P	Z	07:41:16.1	22.2	101.5	1.5	619	5.8			
GRA1	e P	Z	07:41:20.7	22.6	105.1	2.5	3803	6.5			
	e pP	Z	07:41:29.1								
	e L	Z	07:52:36.0			21.3	4444			4.9	
MOX	e P	Z	07:41:20.1	22.6	107.7	1.7	183	5.3			
STU	e P	Z	07:41:31.0	23.7	100.7	2.2	690	5.8			
CLZ	e P	Z	07:41:31.2	23.7	108.8	2.2	544	5.7			
NRDL	e P	Z	07:41:35.1	24.1	109.9	2.2	505	5.7			
BFO	e P	Z	07:41:35.3	24.2	98.9	1.8	174	5.3			
TNS	e P	Z	07:41:38.4	24.4	103.1	2.6	1348	6.2			
BSEG	e P	Z	07:41:39.2	24.5	113.1	1.7	501	6.0			
IBBN	e P	Z	07:41:47.4	25.4	106.7	2.2	913	6.1			

Date
2005/03/12

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 13:49:58.5							

Date
2005/03/12
Kyrgyzstan

Origin Time
17:05:31.7

Lat
42.300N

Long
71.740E

Depth
21.2

mb
4.8

Ms

ML

Source
SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:13:01.5	39.6	79.2	0.8	16	4.7		
CLL	e P	Z 17:13:05.2	40.1	79.2	0.6	18	4.9		
GEC2	e P	Z 17:13:06.6	40.1	76.7	1.1	18	4.6		
WET	e P	Z 17:13:10.1	40.6	76.6	1.0	13	4.6		
WERD	e P	Z 17:13:10.6	40.7	77.7	0.8	10	4.6		
GUNZ	e P	Z 17:13:10.8	40.7	77.6	1.0	14	4.6		
NOTT	e P	Z 17:13:13.0	40.9	76.9	1.2	9	4.4		
MOX	e P	Z 17:13:13.8	41.1	77.5	0.9	11	4.6		
BSEG	e P	Z 17:13:15.7	41.2	80.4	0.9	34	5.1		
GRA1	e P	Z 17:13:18.4	41.5	76.2	0.8	28	5.0		
	e pP	Z 17:13:24.0							
CLZ	e P	Z 17:13:18.4	41.6	78.1	1.0	13	4.6		
NRDL	e P	Z 17:13:18.5	41.6	78.6					
FUR	e P	Z 17:13:21.2	41.9	74.6	0.5	28	5.3		

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IBBN	e P	Z	17:13:30.0	43.0	76.9	0.8	17	4.9
BFO	e P	Z	17:13:35.0	43.7	73.2	1.2	15	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/12	22:33:13.2	4.650N	94.600E	72.3	5.3			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 22:45:17.4	80.5	94.3	1.0	22	5.1		
GEC2	e P	Z 22:45:17.9	80.5	93.8	1.0	49	5.5		
RUE	e P	Z 22:45:18.4	80.7	94.5	0.8	47	5.6		
WET	e P	Z 22:45:20.7	81.1	93.2	1.0	26	5.2		
CLL	e P	Z 22:45:20.3	81.1	93.7	1.1	20	5.0		
GUNZ	e P	Z 22:45:22.3	81.5	93.0	1.2	17	5.0		
WERD	e P	Z 22:45:21.8	81.5	93.0	1.8	50	5.3		
MOX	e P	Z 22:45:25.1	82.0	92.5	1.3	22	5.1		
GRA1	e P	Z 22:45:26.7	82.2	92.0	1.1	43	5.5		
	e pP	Z 22:45:46.3							
	e L	Z 23:37:42.7			18.9	551			
CLZ	e P	Z 22:45:29.4	82.8	91.7	1.0	20	5.3		
BSEG	e P	Z 22:45:30.1	82.9	91.9	1.3	48	5.6		
NRDL	e P	Z 22:45:30.5	83.0	91.5	1.8	85	5.7		
BFO	e P	Z 22:45:35.5	84.0	89.7	0.9	18	5.3		
BUG	e P	Z 22:45:39.3	84.7	89.2	1.3	31	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/12	22:43:31.9	10.205N	92.510E	33.0N	5.2			SZGRF
Andaman Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:55:19.6	76.6	89.9	1.6	30	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/13	01:30:42.4	44.248N	43.086E	33.0N	4.0			SZGRF
Western Caucasus								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:35:36.7	22.3	96.8	1.1	6	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/13	02:18:37.9	10.310N	92.930E	59.1	5.1			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:30:13.4	75.1	91.9	0.8	18	5.2		
GEC2	e P	Z 02:30:13.9	75.2	91.2	0.9	22	5.3		
RUE	e P	Z 02:30:13.9	75.2	92.2	0.7	44	5.7		
CLL	e P	Z 02:30:16.5	75.7	91.3	1.1	14	5.0		
WET	e P	Z 02:30:17.1	75.7	90.7	1.1	19	5.1		
GUNZ	e P	Z 02:30:19.0	76.1	90.6	1.2	15	5.0		
WERD	e P	Z 02:30:19.0	76.1	90.6	1.4	15	5.0		
NOTT	e P	Z 02:30:19.8	76.2	90.3	1.3	11	4.8		
MOX	e P	Z 02:30:21.5	76.5	90.1	0.9	10	5.0		
FUR	e P	Z 02:30:22.5	76.8	89.2	0.7	14	5.2		
GRA1	e P	Z 02:30:23.4	76.8	89.6	1.2	20	5.1		
	e pP	Z 02:30:39.6							
CLZ	e P	Z 02:30:26.1	77.3	89.4	0.9	26	5.3		
BSEG	e P	Z 02:30:26.2	77.3	89.8	1.0	29	5.2		
NRDL	e P	Z 02:30:26.3	77.5	89.3	1.0	12	4.9		
STU	e P	Z 02:30:30.3	78.2	87.8	0.8	13	5.0		
TNS	e P	Z 02:30:33.4	78.6	87.6	1.0	15	4.9		
IBBN	e P	Z 02:30:35.0	78.9	87.4	1.2	36	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/13	03:02:47.6	41.550N	44.070E	33.0N	4.5			SZGRF

Western Caucasus

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:07:44.6	22.4	97.5	1.0	18	4.6		
BRG	e P	Z 03:07:47.3	22.6	102.5	2.1	38	4.6		
WET	e P	Z 03:07:51.2	23.0	97.4	0.9	14	4.5		
CLL	e P	Z 03:07:53.3	23.3	102.5	0.8	24	4.8		
GUNZ	e P	Z 03:07:57.0	23.5	99.7	1.3	9	4.2		
NOTT	e P	Z 03:07:56.2	23.6	98.2	0.9	9	4.3		
FUR	e P	Z 03:08:00.2	24.0	93.7	1.5	43	4.8		
MOX	e P	Z 03:08:00.5	24.0	99.6	1.6	18	4.4		
GRA1	e P	Z 03:08:02.3	24.1	97.1	1.0	13	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/13	03:31:23.4	25.810N	60.430E	53.1	6.0	5.3		SZGRF

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:39:16.3	42.8	105.2	1.3	336	6.1		
	e PcP	Z 03:41:06.6							
	e S	Z 03:45:37.7							

BRG	e P	Z	03:39:18.8	43.2	107.5	1.8	321	5.8		
	e PcP	Z	03:41:07.7							
WET	e P	Z	03:39:20.4	43.4	104.7	1.8	171	5.5		
	e PcP	Z	03:41:08.8							
	e S	R	03:45:45.3							
RUE	e P	Z	03:39:23.7	43.8	109.0	1.3	460	6.1		
CLL	e P	Z	03:39:25.1	43.9	107.0	1.3	712	6.2		
	e S	Z	03:45:53.6							
NOTT	e P	Z	03:39:26.2	44.0	104.7	1.4	112	5.4		
GUNZ	e P	Z	03:39:26.0	44.0	105.5	1.9	98	5.2		
	e PcP	Z	03:41:11.3							
WERD	e P	Z	03:39:26.3	44.1	105.5	1.7	94	5.2		
FUR	e P	Z	03:39:27.4	44.2	102.3	1.5	187	5.6		
MOX	e P	Z	03:39:30.3	44.6	105.1	1.4	127	5.7		
	e S	R	03:46:05.0							
GRA1	e P	Z	03:39:30.6	44.6	103.8	1.3	336	6.1		
	e pP	Z	03:39:44.7							
	e sP	Z	03:39:51.2							
	e PcP	Z	03:41:12.9							
	e S	R	03:46:04.0							
	e L	Z	04:02:54.4			19.7	3962		5.3	
CLZ	e P	Z	03:39:39.1	45.6	105.0					
	e PcP	Z	03:41:15.8							
	e S	R	03:46:19.6							
STU	e P	Z	03:39:38.6	45.7	101.0	1.1	190	6.0		
NRDL	e P	Z	03:39:41.6	45.9	105.4	1.2	526	6.4		
	e PcP	Z	03:41:17.2							
	e S	R	03:46:23.7							
BFO	e P	Z	03:39:42.3	46.1	99.9	1.5	92	5.6		
	e PcP	Z	03:41:18.5							
BSEG	e P	Z	03:39:43.0	46.2	106.9	1.2	442	6.4		
	e PcP	Z	03:41:17.8							
	e S	R	03:46:26.3							
TNS	e P	Z	03:39:46.0	46.4	101.8	1.3	380	6.3		
	e PcP	Z	03:41:19.5							
	e S	R	03:46:31.9							
IBBN	e P	Z	03:39:52.2	47.3	103.0	1.3	982	6.8		
	e S	R	03:46:41.7							
BUG	e P	Z	03:39:53.4	47.4	101.8	1.2	675	6.6		
	e S	R	03:46:45.1							

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/13 14:32:52.3 19.350S 177.580W 33.0N
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	14:52:27.6	145.7	19.3					

NRDL	e	PKPbc	Z	14:52:28.9	146.3	13.2
CLZ	e	PKPbc	Z	14:52:31.4	146.9	13.8
CLL	e	PKPbc	Z	14:52:31.3	147.0	18.5
BRG	e	PKPbc	Z	14:52:32.0	147.2	20.4
MOX	e	PKPbc	Z	14:52:33.7	147.9	16.5
WERD	e	PKPbc	Z	14:52:34.1	147.9	17.8
GUNZ	e	PKPbc	Z	14:52:34.4	148.0	17.8
NOTT	e	PKPbc	Z	14:52:35.8	148.6	17.8
TNS	e	PKPbc	Z	14:52:36.3	148.8	11.0
GRA1	e	PKPbc	Z	14:52:36.7	148.9	16.2
WET	e	PKPbc	Z	14:52:37.0	149.0	19.4
GEC2	e	PKPbc	Z	14:52:37.2	149.1	21.1
WLF	e	PKPbc	Z	14:52:38.7	149.5	7.0
STU	e	PKPbc	Z	14:52:39.9	150.1	12.9
FUR	e	PKPbc	Z	14:52:40.4	150.3	17.1
BFO	e	PKPbc	Z	14:52:40.7	150.6	11.4

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/13 22:12:45.8 5.380N 94.560E 51.7 5.6
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 22:24:49.2	79.9	93.9	1.3	55	5.3		
GEC2	e P	Z 22:24:49.6	79.9	93.3	1.0	103	5.7		
RUE	e P	Z 22:24:50.1	80.1	94.0	1.0	96	5.7		
WET	e P	Z 22:24:52.4	80.5	92.8	1.1	61	5.5		
CLL	e P	Z 22:24:52.0	80.5	93.2	1.2	47	5.4		
GUNZ	e P	Z 22:24:54.6	80.9	92.5	1.2	43	5.3		
WERD	e P	Z 22:24:54.5	80.9	92.5	1.2	38	5.3		
NOTT	e P	Z 22:24:55.5	81.0	92.3	3.3	411	5.9		
MOX	e P	Z 22:24:56.9	81.4	92.0	1.5	50	5.3		
FUR	e P	Z 22:24:57.4	81.5	91.4	1.4	80	5.7		
GRA1	e P	Z 22:24:58.6	81.6	91.6	1.2	64	5.6		
	e pP	Z 22:25:13.5							
CLZ	e P	Z 22:25:01.1	82.2	91.2	1.2	59	5.6		
BSEG	e P	Z 22:25:01.6	82.3	91.5	1.2	83	5.7		
NRDL	e P	Z 22:25:02.4	82.4	91.1	1.4	76	5.6		
STU	e P	Z 22:25:04.8	82.9	89.9	3.2	435	6.1		
TNS	e P	Z 22:25:07.5	83.4	89.5	1.1	40	5.5		
BFO	e P	Z 22:25:07.5	83.5	89.2	1.3	41	5.5		
IBBN	e P	Z 22:25:09.6	83.8	89.2	1.1	53	5.7		
BUG	e P	Z 22:25:11.1	84.1	88.8	1.2	56	5.7		
WLF	e P	Z 22:25:15.5	84.9	87.7	1.4	64	5.7		

Date Origin Time Lat Long Depth mb Ms ML Source

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2005/03/13 22:33:12.9
Tonga Islands

15.410S 173.260W 60.5

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e PKPbc	Z	22:52:42.0	145.2	2.9					
NOTT	e PKPbc	Z	22:52:43.0	145.3	9.1					
GRA1	e PKPbc	Z	22:52:43.6	145.5	7.6					
	e pPKPbc	Z	22:53:01.1							
WLF	e PKPbc	Z	22:52:44.6	145.7	359.0					
WET	e PKPbc	Z	22:52:44.8	145.9	10.6					
GEC2	e PKPbc	Z	22:52:45.2	146.1	12.1					
FUR	e PKPbc	Z	22:52:48.3	147.0	8.1					
BFO	e PKPbc	Z	22:52:48.1	147.1	2.8					

Date Origin Time
2005/03/13 23:31:30.5
Fiji Islands region

Lat Long Depth mb Ms ML
19.330S 176.990W 33.0N

Source
SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	23:51:03.0	144.9	12.1					
CLZ	e PKPbc	Z	23:51:09.7	147.0	12.8					
CLL	e PKPbc	Z	23:51:09.6	147.1	17.5					
BRG	e PKPbc	Z	23:51:10.2	147.3	19.3					
MOX	e PKPbc	Z	23:51:12.2	148.0	15.4					
WERD	e PKPbc	Z	23:51:12.4	148.0	16.7					
GUNZ	e PKPbc	Z	23:51:12.8	148.1	16.8					
NOTT	e PKPbc	Z	23:51:14.2	148.7	16.7					
TNS	e PKPbc	Z	23:51:14.5	148.8	9.9					
GRA1	e PKPbc	Z	23:51:14.9	148.9	15.1					
STU	e PKPbc	Z	23:51:18.1	150.1	11.8					
FUR	e PKPbc	Z	23:51:18.5	150.4	15.9					
BFO	e PKPbc	Z	23:51:19.3	150.7	10.3					

Date Origin Time
2005/03/14 01:55:50.3
Turkey

Lat Long Depth mb Ms ML
38.610N 41.990E 33.0N 5.8 5.3

Source
SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:00:48.6	22.7	106.2	1.6	278	5.3		
	e S	R	02:04:58.4							
BRG	e P	Z	02:00:53.6	23.2	111.0	2.0	614	5.6		
	e S	R	02:05:03.1							
WET	e P	Z	02:00:54.3	23.3	105.9	2.0	672	5.6		
	e S	R	02:05:04.0							
CLL	e P	Z	02:01:01.4	23.9	110.7	1.4	366	5.6		

	e S	R	02:05:15.7								
RUE	e P	Z	02:01:00.8	23.9	114.2	1.8	1563	6.1			
	e S	R	02:05:15.1								
NOTT	e P	Z	02:01:01.8	23.9	106.5	1.4	295	5.5			
	e S	R	02:05:16.7								
GUNZ	e P	Z	02:01:02.0	24.0	107.9	2.2	978	5.9			
WERD	e P	Z	02:01:01.6	24.0	108.0	2.1	557	5.6			
FUR	e P	Z	02:01:03.3	24.1	101.9	1.5	753	5.9			
	e S	R	02:05:19.5								
GRA1	e P	Z	02:01:07.5	24.5	105.2	2.0	3184	6.5			
	e S	R	02:05:28.0								
	e L	Z	02:14:32.0			18.5	10141			5.3	
MOX	e P	Z	02:01:06.9	24.5	107.6	2.2	310	5.5			
	e S	R	02:05:28.1								
STU	e P	Z	02:01:17.3	25.5	101.1	1.4	281	5.6			
	e S	R	02:05:44.9								
CLZ	e P	Z	02:01:18.7	25.6	108.6	1.6	331	5.6			
	e S	R	02:05:45.8								
NRDL	e P	Z	02:01:21.4	26.0	109.5	2.1	440	5.6			
	e S	R	02:05:52.2								
BFO	e P	Z	02:01:23.3	26.0	99.3	2.1	308	5.5			
TNS	e P	Z	02:01:25.3	26.3	103.2	1.9	765	5.9			
	e S	R	02:05:58.2								
BSEG	e P	Z	02:01:26.0	26.4	112.5	2.2	1176	6.0			
IBBN	e P	Z	02:01:34.3	27.3	106.4	2.1	1203	6.3			
	e S	R	02:06:13.8								
BUG	e P	Z	02:01:35.2	27.3	104.3	2.5	881	6.0			
	e S	R	02:06:15.3								

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/14 04:27:11.1 8.526N 92.868E 33.0N 4.6 SZGRF
 Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:39:07.3	78.1	90.8	1.1	5	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/14 04:58:12.2 39.290N 40.260E 33.0N 4.6 SZGRF
 Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:02:56.4	21.2	106.8	1.1	17	4.3		
BRG	e P	Z 05:03:01.9	21.7	112.0	1.3	20	4.4		
WET	e P	Z 05:03:02.0	21.8	106.5	1.1	13	4.3		
CLL	e P	Z 05:03:09.1	22.4	111.7	1.2	20	4.4		

NOTT	e P	Z	05:03:10.0	22.5	107.2	2.0	57	4.8
GUNZ	e P	Z	05:03:10.7	22.5	108.7	1.2	17	4.4
WERD	e P	Z	05:03:10.1	22.5	108.9	1.7	28	4.5
FUR	e P	Z	05:03:10.9	22.6	102.3	0.9	25	4.8
GRA1	e P	Z	05:03:15.3	23.0	105.8	1.4	118	5.2
CLZ	e P	Z	05:03:26.2	24.1	109.5	1.3	21	4.5
BSEG	e P	Z	05:03:33.7	24.9	113.7	1.6	47	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	05:11:55.8	28.350S	74.230E	22.0	5.2	4.7		SZGRF

Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e P	Z	05:25:03.2	92.2	130.5					
OKC	e P	Z	05:25:05.4	92.6	133.0					
MORC	e P	Z	05:25:05.2	92.6	152.3					
KBA	e P	Z	05:25:07.2	93.2	129.6					
SUW	e P	Z	05:25:07.9	93.4	136.7					
GEC2	e P	Z	05:25:11.3	94.2	129.8	1.2	8	4.7		
PRU	e P	Z	05:25:13.1	94.5	130.4					
	e PP	Z	05:28:56.0							
WET	e P	Z	05:25:14.1	94.8	129.2	1.0	10	4.9		
FUR	e P	Z	05:25:16.3	95.0	128.1	0.8	34	5.5		
BRG	e P	Z	05:25:18.0	95.3	129.9	1.4	22	5.1		
NOTT	e P	Z	05:25:18.5	95.6	128.6	1.4	7	4.8		
GUNZ	e P	Z	05:25:20.3	95.8	128.7	1.5	41	5.5		
WERD	e P	Z	05:25:20.3	95.9	128.7	1.5	23	5.3		
GRA1	e P	Z	05:25:19.5	96.0	128.0	0.9	26	5.6		
	e pP	Z	05:25:25.9							
	e L	Z	06:06:35.4			20.1	301		4.7	
CLL	e P	Z	05:25:21.0	96.1	129.1	1.2	21	5.3		
MOX	e P	Z	05:25:22.4	96.3	128.2	1.6	36	5.5		
BFO	e P	Z	05:25:23.4	96.6	126.0	1.2	18	5.2		
CLZ	e P	Z	05:25:28.5	97.7	127.1	1.2	35	5.5		
TNS	e P	Z	05:25:28.7	97.7	125.9	1.5	28	5.3		
NRDL	e P	Z	05:25:30.9	98.2	126.9	1.4	19	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	06:10:57.7	47.300N	147.340E	33.0N	5.2			SZGRF

Northwest of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	06:22:23.7	72.4	29.0	0.8	17	5.2		
RUE	e P	Z	06:22:25.6	72.6	31.0	0.9	25	5.3		
NRDL	e P	Z	06:22:31.4	73.7	28.7	1.5	23	5.0		

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CLL	e P	Z	06:22:32.0	73.9	30.3	0.6	33	5.5
BRG	e P	Z	06:22:32.7	74.0	30.8	1.1	16	5.0
CLZ	e P	Z	06:22:34.4	74.2	28.7	0.9	24	5.2
IBBN	e P	Z	06:22:36.7	74.6	27.1	0.9	35	5.4
WERD	e P	Z	06:22:37.8	74.9	29.8	0.6	12	5.1
MOX	e P	Z	06:22:37.9	74.9	29.4	0.9	12	4.9
GUNZ	e P	Z	06:22:38.9	74.9	29.8	0.7	12	5.0
NOTT	e P	Z	06:22:41.4	75.5	29.6	1.0	14	5.0
GEC2	e P	Z	06:22:43.1	75.8	30.4	0.7	9	5.0
WET	e P	Z	06:22:43.7	75.8	30.0	1.0	25	5.3
GRA1	e P	Z	06:22:44.6	75.9	29.0	0.7	43	5.7
TNS	e P	Z	06:22:46.1	76.2	27.3	0.8	14	5.1
FUR	e P	Z	06:22:51.4	77.2	28.9	1.1	46	5.5
STU	e P	Z	06:22:51.9	77.3	27.6	0.9	19	5.2
BFO	e P	Z	06:22:55.1	78.0	27.1	1.1	17	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	06:53:55.8	47.780N	152.240E	33.0N	5.3			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:05:26.8	73.3	25.6	1.5	31	5.1		
NRDL	e P	Z	07:05:34.4	74.7	25.3	1.0	13	4.9		
CLL	e P	Z	07:05:35.6	74.9	27.0	0.6	38	5.6		
BRG	e P	Z	07:05:36.3	75.1	27.6	0.7	8	4.9		
CLZ	e P	Z	07:05:37.8	75.2	25.4	0.8	24	5.4		
IBBN	e P	Z	07:05:38.9	75.4	23.8	0.6	28	5.5		
WERD	e P	Z	07:05:41.5	75.9	26.5	0.9	12	5.0		
MOX	e P	Z	07:05:41.6	75.9	26.1	1.0	19	5.2		
GUNZ	e P	Z	07:05:41.9	76.0	26.5	0.8	12	5.1		
BUG	e P	Z	07:05:43.8	76.3	23.4	0.9	30	5.4		
NOTT	e P	Z	07:05:45.2	76.5	26.3	1.4	35	5.3		
GRA1	e P	Z	07:05:47.3	76.9	25.7	1.2	73	5.7		
WET	e P	Z	07:05:47.5	76.9	26.7	1.5	49	5.4		
GEC2	e P	Z	07:05:47.2	76.9	27.2	0.7	10	5.0		
TNS	e P	Z	07:05:48.6	77.2	24.0	1.0	26	5.3		
FUR	e P	Z	07:05:55.0	78.3	25.6					
STU	e P	Z	07:05:54.7	78.3	24.4	0.8	21	5.2		
BFO	e P	Z	07:05:58.2	78.9	23.8	1.0	40	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	08:04:33.5	46.470S	167.770E	33.0G				SZGRF
Off west coast of South Island, New Zealand								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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RUE	e	PKPab	Z	08:25:18.1	162.2	80.7
BRG	e	PKPab	Z	08:25:18.3	162.3	85.9
GEC2	e	PKPdf	Z	08:24:33.6	162.5	92.0
	e	PKPab	Z	08:25:19.7		
CLL	e	PKPab	Z	08:25:20.3	162.8	83.6
WET	e	PKPdf	Z	08:24:34.1	163.0	90.5
	e	PKPab	Z	08:25:22.0		
GUNZ	e	PKPab	Z	08:25:23.0	163.3	86.0
WERD	e	PKPab	Z	08:25:23.1	163.3	85.7
NOTT	e	PKPab	Z	08:25:24.1	163.5	87.7
MOX	e	PKPab	Z	08:25:25.0	163.8	84.4
BSEG	e	PKPab	Z	08:25:25.5	163.8	71.7
GRA1	e	PKPdf	Z	08:24:35.6	164.1	87.3
	e	PKPab	Z	08:25:26.7		
CLZ	e	PKPab	Z	08:25:27.4	164.3	78.9
NRDL	e	PKPab	Z	08:25:27.4	164.4	76.3
STU	e	PKPab	Z	08:25:32.5	165.4	89.0
IBBN	e	PKPab	Z	08:25:34.9	165.8	73.7
TNS	e	PKPab	Z	08:25:34.3	165.8	82.7
BFO	e	PKPab	Z	08:25:34.6	166.0	90.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	09:44:52.2	23.297N	68.019E	33.0N	4.6			SZGRF
India-Pakistan border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:53:52.5	51.2	111.1	1.2	9	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	10:49:40.1	34.181N	136.868E	33.0N	4.8			SZGRF
Western Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:02:04.0	83.3	42.6	0.8	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/14	21:48:49.9	11.295N	95.686E	33.0N	4.5			SZGRF
Andaman Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:00:44.6	77.8	86.8	0.9	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/15	00:15:20.9	11.410N	86.535W	33.0N	4.5	6.0		SZGRF

Near coast of Nicaragua

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:27:59.6	86.3	283.3	0.9	4	4.5		
	e PP	Z 00:31:27.0							
	e S	E 00:38:43.2							
	e SS	E 00:44:16.6							
	e L	Z 01:05:24.1			18.8	6003		6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/15	09:31:43.0	85.848N	96.279E	33.0N	4.1			SZGRF

North of Severnaya Zemlya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:39:16.0	40.1	6.4	0.9	4	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/15	20:05:41.6	21.430S	167.350E	170.0N				SZGRF

Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z 20:24:57.3	145.0	43.2					
	e	20:28:36.2							
GUNZ	e PKPbc	Z 20:24:57.5	145.0	43.3					
	e	20:28:36.4							
MOX	e PKPbc	Z 20:24:57.7	145.1	42.0					
	e	20:28:36.8							
NOTT	e PKPbc	Z 20:24:59.5	145.5	43.6					
	e	20:28:38.1							
WET	e	20:28:37.8	145.7	45.3					
GRA1	e PKPbc	Z 20:25:00.7	146.0	42.4					
TNS	e PKPbc	Z 20:25:02.5	146.8	37.7					
	e	20:28:39.9							
FUR	e PKPbc	Z 20:25:03.2	147.1	44.0					
STU	e PKPbc	Z 20:25:05.7	147.6	40.3					
WLF	e PKPbc	Z 20:25:06.5	148.1	34.6					
BFO	e PKPbc	Z 20:25:07.3	148.3	39.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	03:41:26.5	24.400S	179.680W	526.8				szgrf

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GKP	e PKPbc	Z	04:00:13.5	148.4	30.4					
	e PKPab	Z	04:00:18.5							
KWP	e PKPbc	Z	04:00:15.8	149.3	42.8					
BSEG	e PKPbc	Z	04:00:16.4	149.5	18.2					
OJC	e PKPbc	Z	04:00:17.5	150.1	37.5					
KSP	e PKPbc	Z	04:00:19.5	150.8	30.9					
NRDL	e PKPab	Z	04:00:28.9	150.9	18.6					
	e PKPbc	Z	04:00:20.0	151.0	35.1					
CLL	e PKPab	Z	04:00:29.5							
	e PKPbc	Z	04:00:20.5	151.4	24.7					
	e PKPab	Z	04:00:30.7							
	e pPKPbc	Z	04:02:20.1							
CLZ	e pPKPab	Z	04:02:31.1							
	e PKPbc	Z	04:00:21.0	151.5	19.5					
BRG	e PKPab	Z	04:00:31.3							
	e PKPbc	Z	04:00:21.0	151.5	26.7					
IBBN	e PKPab	Z	04:00:31.5							
	e PKPbc	Z	04:00:21.5	151.5	14.3					
PVCC	e PKPab	Z	04:00:31.5							
	e PKPbc	Z	04:00:21.6	151.6	28.2					
MOX	e PKPab	Z	04:00:35.0	152.3	22.6					
WERD	e PKPbc	Z	04:00:22.8	152.3	24.0					
	e PKPab	Z	04:00:35.0							
GUNZ	e PKPab	Z	04:00:35.3	152.4	24.2					
UBBA	e PKPab	Z	04:00:35.2	152.5	19.4					
NOTT	e PKPab	Z	04:00:38.0	153.0	24.2					
KHC	e PKPbc	Z	04:00:24.7	153.2	27.6					
	e PKPab	Z	04:00:39.0							
	e pPKPab	Z	04:02:38.6							
GRA1	e PKPab	Z	04:00:39.5	153.3	22.6					
WET	e PKPab	Z	04:00:39.9	153.4	26.2					
GEC2	e PKPab	Z	04:00:39.4	153.4	28.1					
TNS	e PKPab	Z	04:00:39.6	153.4	16.7					
MOA	e PKPab	Z	04:00:42.8	154.1	30.1					
ARSA	e PKPab	Z	04:00:42.7	154.1	33.2					
STU	e PKPab	Z	04:00:44.7	154.7	19.2					
FUR	e PKPab	Z	04:00:45.7	154.7	23.9					
OBKA	e PKPab	Z	04:00:46.4	155.1	32.2					
BFO	e PKPab	Z	04:00:47.4	155.2	17.6					
DAVA	e PKPab	Z	04:00:50.5	155.9	21.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	06:39:49.7	4.690N	94.340E	57.0	5.6			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:51:53.8	80.3	94.5					
GEC2	e P	Z	06:51:54.0	80.3	94.0	0.8	67	5.6		
RUE	e P	Z	06:51:55.0	80.5	94.6					
WET	e P	Z	06:51:57.0	80.9	93.4	0.8	31	5.4		
CLL	e P	Z	06:51:57.2	80.9	93.8					
GUNZ	e P	Z	06:51:59.7	81.3	93.2					
WERD	e P	Z	06:51:59.1	81.3	93.2					
NOTT	e P	Z	06:52:00.4	81.4	92.9					
MOX	e P	Z	06:52:02.2	81.8	92.6					
GRA1	e P	Z	06:52:03.0	82.0	92.2	1.0	50	5.6		
	e pP	Z	06:52:19.1							
CLZ	e P	Z	06:52:06.0	82.6	91.8	0.7	37	5.7		
BSEG	e P	Z	06:52:06.4	82.7	92.1					
UBBA	e P	Z	06:52:06.3	82.8	91.4					
STU	e P	Z	06:52:09.8	83.3	90.5					
TNS	e P	Z	06:52:12.6	83.8	90.1					
BFO	e P	Z	06:52:11.8	83.8	89.9	0.7	25	5.6		
IBBN	e P	Z	06:52:14.9	84.2	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	09:32:38.0	35.000S	179.800E	90.0N				GSRC-M

Off east coast of North Island, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	09:52:30.9	163.1	33.9					
	e PKPab	Z	09:53:20.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	11:08:49.6	85.761N	90.840E	25.8	4.5			SZGRF

North of Severnaya Zemlya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:16:19.3	39.7	6.5	1.1	14	4.5		
	e pP	Z	11:16:26.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	11:10:33.2	85.782N	92.449E	25.4	4.8			SZGRF

North of Severnaya Zemlya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:18:03.8	39.8	6.5	1.2	30	4.8		

e pP Z 11:18:10.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	13:23:32.1	43.690N	147.170E	33.0N	5.9	5.0		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 13:35:16.3	75.7	30.7	1.0	228	6.3		
RUE	e P	Z 13:35:16.9	75.8	32.8	1.2	280	6.3		
CLL	e P	Z 13:35:23.4	77.0	32.2	0.9	286	6.4		
BRG	e P	Z 13:35:23.9	77.1	32.7	1.1	90	5.8		
CLZ	e P	Z 13:35:26.4	77.4	30.5	1.2	267	6.3		
IBBN	e P	Z 13:35:28.2	77.8	28.8	1.1	215	6.2		
WERD	e P	Z 13:35:29.2	78.0	31.6	1.0	63	5.7		
MOX	e P	Z 13:35:29.5	78.1	31.2	1.2	96	5.8		
GUNZ	e P	Z 13:35:29.6	78.1	31.6	0.9	69	5.8		
UBBA	e P	Z 13:35:31.3	78.4	30.1	1.5	78	5.5		
NOTT	e P	Z 13:35:32.8	78.6	31.4	1.0	87	5.7		
GEC2	e P	Z 13:35:33.9	78.9	32.3	1.1	53	5.5		
WET	e P	Z 13:35:34.6	78.9	31.8	1.0	131	5.9		
GRA1	e P	Z 13:35:35.2	79.0	30.8	1.0	242	6.2		
	e L	Z 14:15:36.8			20.7	707		5.0	
TNS	e P	Z 13:35:37.1	79.4	29.0	1.2	97	5.6		
FUR	e P	Z 13:35:41.9	80.3	30.7	1.1	183	6.0		
STU	e P	Z 13:35:42.5	80.5	29.4	0.9	134	6.0		
BFO	e P	Z 13:35:46.0	81.1	28.8	1.0	70	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	13:55:47.5	5.475N	94.628E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:08:02.3	81.6	91.5	1.3	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	21:14:44.6	53.000N	167.250E	33.0N	4.9			SZGRF

Komandorsky Islands, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 21:26:03.5	71.4	14.4	1.4	24	5.1		
CLZ	e P	Z 21:26:15.7	73.4	14.3	1.2	11	4.7		
CLL	e P	Z 21:26:16.4	73.5	15.8					
BRG	e P	Z 21:26:17.4	73.7	16.4	1.1	10	4.7		

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MOX	e P	Z	21:26:21.0	74.3	14.9	1.5	20	4.9
WERD	e P	Z	21:26:21.0	74.4	15.3	1.3	10	4.7
GUNZ	e P	Z	21:26:21.9	74.5	15.4	1.4	20	4.9
NOTT	e P	Z	21:26:25.2	75.1	15.2	1.2	9	4.7
GRA1	e P	Z	21:26:27.0	75.3	14.6	1.3	21	5.1
WET	e P	Z	21:26:28.5	75.6	15.6	1.8	37	5.2
GEC2	e P	Z	21:26:29.2	75.7	16.1	1.4	16	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/16	22:40:53.9	34.011N	142.712E	33.0N	4.6			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:53:30.9	86.2	43.1	1.2	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:35:33.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 06:48:39.6							
GEC2	e PKP	Z 06:48:35.8							
GRA1	e PKP	Z 06:48:35.5							
GUNZ	e PKP	Z 06:48:31.9							
NOTT	e PKP	Z 06:48:34.2							
TNS	e PKP	Z 06:48:34.5							
WERD	e PKP	Z 06:48:32.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/17	06:56:19.4	16.850S	172.750W	38.4				SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 07:15:51.3	144.9	5.2					
CLL	e PKPbc	Z 07:15:51.9	145.2	9.7					
UBBA	e PKPbc	Z 07:15:53.9	146.0	4.7					

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MOX	e	PKPbc	Z	07:15:54.2	146.0	7.5
	e	pPKPbc	Z	07:16:05.7		
WERD	e	PKPbc	Z	07:15:55.0	146.2	8.7
GUNZ	e	PKPbc	Z	07:15:55.1	146.2	8.8
	e	pPKPbc	Z	07:16:06.5		
TNS	e	PKPbc	Z	07:15:56.1	146.6	2.1
NOTT	e	PKPbc	Z	07:15:57.2	146.8	8.5
	e	pPKPbc	Z	07:16:08.7		
GRA1	e	PKPbc	Z	07:15:58.2	147.0	7.0
WLF	e	PKPbc	Z	07:15:58.6	147.2	358.1
WET	e	PKPbc	Z	07:15:59.2	147.4	10.0
GEC2	e	PKPbc	Z	07:15:59.4	147.6	11.6
	e	pPKPbc	Z	07:16:11.1		
BFO	e	PKPbc	Z	07:16:01.8	148.5	2.0
FUR	e	PKPbc	Z	07:16:02.2	148.5	7.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/17	12:41:22.3	20.710S	175.570W	33.0N				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	13:00:59.6	146.5	10.0			
NRDL	e	PKPbc	Z	13:01:04.0	147.9	10.0			
CLL	e	PKPbc	Z	13:01:06.1	148.7	15.6			
BRG	e	PKPbc	Z	13:01:06.7	148.9	17.4			
MOX	e	PKPbc	Z	13:01:07.8	149.5	13.3			
WERD	e	PKPbc	Z	13:01:08.2	149.6	14.7			
GUNZ	e	PKPbc	Z	13:01:08.9	149.7	14.8			
NOTT	e	PKPbc	Z	13:01:10.1	150.3	14.6			
TNS	e	PKPbc	Z	13:01:10.3	150.3	7.6			
GRA1	e	PKPbc	Z	13:01:10.9	150.5	13.0			
WET	e	PKPbc	Z	13:01:11.0	150.8	16.3			
GEC2	e	PKPbc	Z	13:01:11.9	150.9	18.1			
STU	e	PKPbc	Z	13:01:13.8	151.7	9.4			
BFO	e	PKPbc	Z	13:01:14.7	152.2	7.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/17	13:37:45.8	14.200N	86.860W	189.2	6.0			SZGRF
Honduras								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e	P	Z	13:49:41.8	81.1	281.5	1.3	127	5.8
BUG	e	P	Z	13:49:42.5	81.5	282.1	1.5	146	5.9
IBBN	e	P	Z	13:49:43.0	81.6	282.4	1.7	294	6.1
TNS	e	P	Z	13:49:48.0	82.5	283.2	1.8	411	6.4

BSEG	e P	Z	13:49:48.1	82.7	284.1	1.0	127	6.1
	e S	R	13:59:51.6					
BFO	e P	Z	13:49:49.7	82.8	283.3	1.6	138	5.9
NRDL	e P	Z	13:49:49.8	82.9	284.2	1.8	281	6.2
CLZ	e P	Z	13:49:51.6	83.3	284.4	1.7	317	6.3
STU	e P	Z	13:49:52.2	83.3	283.9	1.9	445	6.4
UBBA	e P	Z	13:49:51.6	83.3	284.3	1.6	171	6.0
MOX	e P	Z	13:49:56.8	84.3	285.5	1.8	189	6.0
	e S	R	14:00:03.4					
GRA1	e P	Z	13:49:57.6	84.3	285.3	1.5	282	6.3
	e pP	Z	13:50:44.2					
	e S	R	14:00:10.7					
FUR	e P	Z	13:49:59.7	84.8	285.5	1.6	140	5.9
WERD	e P	Z	13:49:59.2	84.8	286.0	1.6	152	6.0
GUNZ	e P	Z	13:49:59.6	84.8	286.1	1.7	164	6.0
NOTT	e P	Z	13:49:59.9	84.9	286.0	1.5	101	5.8
	e S	R	14:00:05.1					
CLL	e P	Z	13:49:59.6	85.0	286.5	1.2	57	5.7
	e S	R	14:00:12.7					
RUE	e P	Z	13:49:59.6	85.1	287.0	1.9	168	6.0
	e PP	Z	13:53:23.6					
WET	e P	Z	13:50:03.3	85.5	286.6	1.5	154	5.9
BRG	e P	Z	13:50:03.1	85.7	287.3	1.9	96	5.6
	e PP	Z	13:53:28.4					
	e S	R	14:00:24.3					
GEC2	e P	Z	13:50:05.8	86.1	287.2	1.5	61	5.5

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/17 23:20:43.9 3.880N 95.440E 55.2 5.8 SZGRF
 Off west coast of northern Sumatra, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:32:56.0	81.6	94.2	0.8	49	5.7		
	e pP	Z	23:33:12.2							
RUE	e P	Z	23:32:56.9	81.8	94.3	0.8	149	6.2		
WET	e P	Z	23:32:59.2	82.2	93.1	0.9	51	5.6		
	e pP	Z	23:33:14.9							
CLL	e P	Z	23:32:58.8	82.2	93.5	1.1	40	5.5		
	e pP	Z	23:33:14.6							
GUNZ	e P	Z	23:33:01.3	82.6	92.8	0.8	38	5.6		
	e pP	Z	23:33:17.3							
WERD	e P	Z	23:33:01.2	82.6	92.8	0.8	31	5.6		
NOTT	e P	Z	23:33:02.1	82.7	92.6	1.1	39	5.6		
	e pP	Z	23:33:18.1							
MOX	e P	Z	23:33:03.6	83.1	92.3	0.8	29	5.6		
FUR	e P	Z	23:33:04.1	83.2	91.8	0.8	50	5.8		
GRA1	e P	Z	23:33:05.3	83.3	91.9	0.9	68	5.9		

	e pP	Z	23:33:21.0							
	e PP	Z	23:36:17.2							
CLZ	e P	Z	23:33:07.8	83.9	91.5	0.9	65	5.9		
	e pP	Z	23:33:23.9							
BSEG	e P	Z	23:33:08.4	84.0	91.7	0.8	73	6.0		
	e pP	Z	23:33:24.4							
UBBA	e P	Z	23:33:08.8	84.1	91.1	2.0	91	5.7		
STU	e P	Z	23:33:11.3	84.6	90.3	0.8	40	5.7		
TNS	e P	Z	23:33:14.2	85.1	89.8	0.8	36	5.7		
	e pP	Z	23:33:29.9							
BFO	e P	Z	23:33:14.0	85.2	89.6	0.7	39	5.7		
IBBN	e P	Z	23:33:15.9	85.5	89.5	0.8	84	5.9		
	e pP	Z	23:33:32.1							
BUG	e P	Z	23:33:17.7	85.8	89.0	0.8	68	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18	23:31:58.8	35.120N	141.920E	33.0N	5.0	4.5		SZGRF
Near east coast of eastern Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:44:21.2	82.6	40.6	1.0	8	4.9		
CLL	e P	Z	23:44:21.5	82.7	39.9	1.1	16	5.2		
CLZ	e P	Z	23:44:25.0	83.3	38.1	1.1	16	5.2		
WERD	e P	Z	23:44:26.3	83.6	39.4	1.3	9	4.9		
GUNZ	e P	Z	23:44:26.8	83.7	39.4	1.2	15	5.1		
MOX	e P	Z	23:44:26.7	83.7	38.9	1.0	8	4.9		
IBBN	e P	Z	23:44:27.8	83.9	36.2	0.9	14	5.2		
NOTT	e P	Z	23:44:29.4	84.2	39.2	1.2	12	5.0		
UBBA	e P	Z	23:44:29.1	84.2	37.7	1.3	6	4.7		
GEC2	e P	Z	23:44:29.2	84.3	40.2	1.0	5	4.7		
WET	e P	Z	23:44:30.7	84.4	39.7	1.5	9	4.8		
GRA1	e P	Z	23:44:32.1	84.6	38.5	1.0	27	5.4		
BUG	e P	Z	23:44:32.3	84.7	35.8	1.0	20	5.3		
TNS	e P	Z	23:44:34.8	85.3	36.6	1.1	8	4.7		
GRA1	e L	Z	00:04:58.4	84.6	38.5	18.0	175		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18	00:38:19.8	41.706N	141.983E	33.0N	4.8			SZGRF
Hokkaido, Japan, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:50:20.4	78.9	35.2	1.0	10	4.8		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18	03:16:32.8	17.700S	174.950W	33.0G				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	03:36:05.3	145.0	8.4					
IBBN	e PKPbc	Z	03:36:06.8	145.3	4.5					
CLZ	e PKPbc	Z	03:36:07.8	145.6	9.0					
CLL	e PKPbc	Z	03:36:08.1	145.8	13.6					
BRG	e PKPbc	Z	03:36:09.1	146.1	15.3					
BUG	e PKPbc	Z	03:36:09.4	146.2	3.8					
MOX	e PKPbc	Z	03:36:10.7	146.6	11.4					
WERD	e PKPbc	Z	03:36:11.0	146.7	12.7					
GUNZ	e PKPbc	Z	03:36:11.6	146.8	12.7					
TNS	e PKPbc	Z	03:36:12.8	147.4	6.0					
NOTT	e PKPbc	Z	03:36:13.2	147.4	12.6					
GRA1	e PKPbc	Z	03:36:13.9	147.6	11.0					
WET	e PKPbc	Z	03:36:14.6	147.9	14.1					
WLF	e PKPbc	Z	03:36:15.1	148.0	2.0					
GEC2	e PKPbc	Z	03:36:14.8	148.1	15.7					
FUR	e PKPbc	Z	03:36:17.6	149.1	11.6					
BFO	e PKPbc	Z	03:36:17.7	149.3	6.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18	04:24:52.1	85.751N	97.219E	33.0N	5.3	4.4		SZGRF

North of Severnaya Zemlya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:31:50.5	36.1	7.2	2.3	359	5.8		
RUE	e P	Z	04:32:00.0	37.2	7.0	1.2	59	5.2		
NRDL	e P	Z	04:32:03.0	37.5	7.0	2.0	212	5.5		
IBBN	e P	Z	04:32:06.1	37.9	6.9	1.8	109	5.3		
CLZ	e P	Z	04:32:08.5	38.1	6.9	1.7	122	5.4		
CLL	e P	Z	04:32:09.9	38.5	6.8	2.0	112	5.2		
	e S	N	04:38:14.2							
BUG	e P	Z	04:32:13.6	38.8	6.8	2.1	163	5.3		
BRG	e P	Z	04:32:13.2	38.8	6.7	1.9	96	5.1		
	e S	N	04:38:17.5							
UBBA	e P	Z	04:32:16.5	39.2	6.7	1.6	61	5.0		
	e S	N	04:38:24.9							
MOX	e P	Z	04:32:17.2	39.2	6.7	1.8	187	5.4		
	e S	N	04:38:25.1							
WERD	e P	Z	04:32:18.4	39.4	6.7	1.8	98	5.1		
GUNZ	e P	Z	04:32:19.2	39.4	6.7	1.9	147	5.3		
TNS	e P	Z	04:32:23.1	39.9	6.6	2.2	184	5.3		
NOTT	e P	Z	04:32:24.0	40.0	6.6	1.9	129	5.2		
GRA1	e P	Z	04:32:25.7	40.2	6.6	1.6	141	5.4		

	e		04:32:32.8								
	e		04:32:38.5								
	e		04:32:43.3								
	e S	N	04:38:40.0								
	e L	Z	04:53:32.0			18.3	620	4.4			
WLF	e P	Z	04:32:29.4	40.6	6.5	1.4	40	5.0			
	e S	N	04:38:49.0								
WET	e P	Z	04:32:29.2	40.6	6.5	2.1	107	5.2			
GEC2	e P	Z	04:32:31.0	40.9	6.5	2.0	112	5.2			
STU	e P	Z	04:32:34.4	41.3	6.4	1.5	66	5.1			
FUR	e P	Z	04:32:38.2	41.7	6.4	2.2	194	5.4			
BFO	e P	Z	04:32:38.7	41.8	6.4	2.5	235	5.5			

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/18 07:24: 4.8 41.432N 126.788W 33.0N 4.7
 Off coast of northern California, United States

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z 07:36:20.4	81.7	329.5	1.0	6	4.7		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/18 09:34:50.4 23.450S 178.520W 136.7
 South of Fiji Islands

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BSEG	e PKPbc	Z 09:54:21.1	148.8	15.8					
		e PKPab	Z 09:54:25.9							
	RUE	e PKPbc	Z 09:54:23.3	149.5	22.6					
	NRDL	e PKPbc	Z 09:54:24.4	150.2	16.1					
	IBBN	e PKPbc	Z 09:54:26.0	150.7	11.8					
	CLL	e PKPbc	Z 09:54:26.5	150.8	22.0					
	CLZ	e PKPbc	Z 09:54:26.3	150.8	16.9					
	BRG	e PKPbc	Z 09:54:26.6	150.9	24.0					
	BUG	e PKPbc	Z 09:54:27.3	151.7	11.2					
	MOX	e PKPbc	Z 09:54:28.6	151.7	19.9					
	WERD	e PKPbc	Z 09:54:28.8	151.7	21.3					
	GUNZ	e PKPbc	Z 09:54:28.4	151.8	21.4					
		e pPKPbc	Z 09:55:05.1							
	UBBA	e PKPbc	Z 09:54:27.8	151.8	16.7					
	NOTT	e PKPbc	Z 09:54:30.0	152.4	21.4					
		e pPKPbc	Z 09:55:06.1							
	GRA1	e PKPbc	Z 09:54:31.0	152.7	19.8					
		e PKPab	Z 09:54:40.8							
	TNS	e PKPbc	Z 09:54:30.3	152.7	14.0					
	WET	e PKPab	Z 09:54:41.9	152.8	23.4					

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GEC2	e	PKPbc	Z	09:54:31.1	152.8	25.2
	e	PKPab	Z	09:54:42.2		
	e	pPKPbc	Z	09:55:07.3		
WLF	e	PKPbc	Z	09:54:33.0	153.5	9.7
BFO	e	PKPbc	Z	09:54:34.6	154.5	14.7
	e	PKPab	Z	09:54:49.1		
	e	pPKPbc	Z	09:55:11.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18	12:23:41.9	27.260S	174.790W	42.5				SZGRF

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e	pPKPab	Z 12:44:04.4	154.5	10.2					
IBBN	e	pPKPab	Z 12:44:06.5	154.9	5.3					
CLZ	e	pPKPab	Z 12:44:07.3	155.1	11.0					
CLL	e	pPKPab	Z 12:44:06.6	155.2	16.7					
BRG	e	PKPab	Z 12:43:56.0	155.5	19.0					
	e	pPKPab	Z 12:44:07.6							
MOX	e	PKPab	Z 12:43:58.5	156.1	14.2					
	e	pPKPab	Z 12:44:10.7							
UBBA	e	pPKPab	Z 12:44:11.0	156.2	10.6					
WERD	e	pPKPab	Z 12:44:10.7	156.2	15.8					
GUNZ	e	PKPab	Z 12:43:59.2	156.3	15.9					
	e	pPKPab	Z 12:44:11.5							
NOTT	e	pPKPab	Z 12:44:13.9	156.8	15.8					
GRA1	e	PKPab	Z 12:44:03.2	157.1	13.8					
	e	pPKPab	Z 12:44:15.7							
WET	e	PKPab	Z 12:44:04.2	157.3	17.9					
	e	pPKPab	Z 12:44:15.8							
GEC2	e	PKPab	Z 12:44:03.8	157.4	20.0					
	e	pPKPab	Z 12:44:15.8							
FUR	e	pPKPab	Z 12:44:21.8	158.6	14.9					
BFO	e	PKPab	Z 12:44:10.0	158.8	7.7					
	e	pPKPab	Z 12:44:23.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18	13:53:51.6	33.000N	34.200E	33.0N	4.0			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 13:59:02.3	23.8	125.5	0.9	4	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/18								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:03:14.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	00:54:11.6	44.290N	147.673E	33.0N	4.6			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:06:10.7	78.6	30.2	1.0	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	00:55:51.6	43.998N	148.798E	44.0	4.4			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:07:52.5	79.3	29.6	1.2	6	4.4		
	e pP	Z 01:08:05.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	00:57:29.5	42.477N	146.977E	42.9	4.6			SZGRF
Off southeast coast of Hokkaido, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:09:34.7	80.0	31.5	0.9	7	4.6		
	e pP	Z 01:09:47.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	02:34:12.8	33.513N	138.485E	40.1	5.1			SZGRF
Southeast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:46:43.2	84.6	41.8	0.9	11	5.1		
	e pP	Z 02:46:54.8			0.9	6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	03:01:17.7	3.930N	95.290E	47.0	5.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:13:30.2	81.5	94.2	1.0	17	5.1		
GEC2	e P	Z	03:13:30.5	81.5	93.8	1.2	42	5.4		
RUE	e P	Z	03:13:31.1	81.7	94.4	0.9	49	5.6		
WET	e P	Z	03:13:33.3	82.1	93.2	1.0	21	5.2		
CLL	e P	Z	03:13:32.9	82.1	93.6	1.1	13	5.0		
GUNZ	e P	Z	03:13:35.4	82.5	92.9	0.9	13	5.1		
WERD	e P	Z	03:13:35.3	82.5	92.9	0.9	12	5.1		
NOTT	e P	Z	03:13:36.3	82.6	92.7	0.9	10	5.0		
MOX	e P	Z	03:13:37.7	83.0	92.4	1.7	31	5.3		
FUR	e P	Z	03:13:38.1	83.1	91.8	1.0	28	5.4		
GRA1	e P	Z	03:13:39.3	83.2	92.0	1.0	29	5.5		
	e pP	Z	03:13:52.9							
CLZ	e P	Z	03:13:41.8	83.8	91.6	0.9	20	5.3		
BSEG	e P	Z	03:13:42.4	83.9	91.7	0.9	32	5.5		
NRDL	e P	Z	03:13:43.1	84.0	91.4	1.5	48	5.5		
UBBA	e P	Z	03:13:42.9	84.0	91.2	1.3	11	4.9		
STU	e P	Z	03:13:45.3	84.5	90.3	1.0	17	5.2		
TNS	e P	Z	03:13:48.1	85.0	89.9	0.8	14	5.3		
BFO	e P	Z	03:13:47.9	85.0	89.7	0.9	12	5.1		
IBBN	e P	Z	03:13:50.1	85.4	89.5	1.0	42	5.6		
BUG	e P	Z	03:13:51.6	85.7	89.1	0.8	21	5.3		
WLF	e P	Z	03:13:55.8	86.4	88.1	1.2	22	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	06:49:19.9	37.420N	141.530E	33.0N	4.8			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:01:25.2	79.4	37.4	2.2	52	5.1		
BRG	e P	Z	07:01:30.6	80.5	39.7	0.7	3	4.4		
CLL	e P	Z	07:01:30.4	80.5	39.0	0.9	6	4.6		
WERD	e P	Z	07:01:35.7	81.4	38.5	0.8	4	4.5		
GUNZ	e P	Z	07:01:35.9	81.5	38.5	1.2	12	4.9		
MOX	e P	Z	07:01:36.4	81.6	38.0	4.7	198	5.5		
NOTT	e P	Z	07:01:39.1	82.0	38.3	1.0	5	4.6		
GEC2	e P	Z	07:01:39.0	82.1	39.3	0.9	2	4.3		
GRA1	e P	Z	07:01:41.5	82.5	37.7	1.2	15	5.1		
TNS	e P	Z	07:01:44.2	83.1	35.8	1.4	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	11:49:55.9	8.717N	7.435E	33.0N	4.2			SZGRF

Nigeria

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:57:36.9	41.1	185.7	1.3	7	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	15:02:44.2	20.870S	174.990W	33.0N		6.0		SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z	15:22:19.9	145.7	13.9					
HLG	e PKPbc	Z	15:22:22.8	146.6	4.9					
BSEG	e PKPbc	Z	15:22:22.9	146.7	9.1					
RUE	e PKPpdf	Z	15:22:23.5	147.7	15.5					
	e PKPbc	Z	15:22:25.7							
NRDL	e PKPpdf	Z	15:22:23.9	148.1	9.0					
	e PKPbc	Z	15:22:26.8							
IBBN	e PKPpdf	Z	15:22:24.2	148.5	4.9					
	e PKPbc	Z	15:22:27.8							
CLZ	e PKPpdf	Z	15:22:24.9	148.7	9.7					
	e PKPbc	Z	15:22:28.9							
	e PKPab	Z	15:22:32.5							
CLL	e PKPpdf	Z	15:22:25.1	148.9	14.6					
	e PKPbc	Z	15:22:29.1							
	e PKPab	Z	15:22:32.6							
BRG	e PKPpdf	Z	15:22:25.6	149.2	16.5					
	e PKPbc	Z	15:22:30.2							
BUG	e PKPpdf	Z	15:22:25.7	149.4	4.1					
	e PKPbc	Z	15:22:29.9							
MOX	e PKPpdf	Z	15:22:26.4	149.8	12.3					
	e PKPbc	Z	15:22:31.4							
	e PKPab	Z	15:22:36.1							
UBBA	e PKPpdf	Z	15:22:26.8	149.8	9.3					
	e PKPbc	Z	15:22:31.1							
	e PKPab	Z	15:22:35.7							
WERD	e PKPpdf	Z	15:22:26.6	149.9	13.7					
	e PKPbc	Z	15:22:31.8							
	e PKPab	Z	15:22:36.5							
GUNZ	e PKPpdf	Z	15:22:26.8	149.9	13.8					
	e PKPbc	Z	15:22:32.2							
	e PKPab	Z	15:22:37.1							
NOTT	e PKPpdf	Z	15:22:27.6	150.5	13.6					
	e PKPbc	Z	15:22:33.3							
TNS	e PKPpdf	Z	15:22:27.8	150.5	6.5					
	e PKPbc	Z	15:22:33.1							
GRA1	e PKPbc	Z	15:22:34.2	150.8	11.9					
	e PKPab	Z	15:22:40.7							
	e PP	Z	15:26:15.4							

	e SS	T	15:45:35.2						
	e L	Z	16:27:06.4			22.5	2715	6.0	
WET	e PKPdf	Z	15:22:28.6	151.0	15.3				
	e PKPbc	Z	15:22:34.7						
	e PKPab	Z	15:22:42.2						
GEC2	e PKPdf	Z	15:22:28.8	151.2	17.0				
	e PKPbc	Z	15:22:34.8						
	e PKPab	Z	15:22:42.3						
WLF	e PKPbc	Z	15:22:35.0	151.2	2.2				
	e PKPab	Z	15:22:43.4						
STU	e PKPdf	Z	15:22:30.1	151.9	8.3				
	e PKPbc	Z	15:22:36.3						
FUR	e PKPdf	Z	15:22:30.5	152.2	12.6				
	e PKPbc	Z	15:22:37.0						
BFO	e PKPdf	Z	15:22:31.0	152.4	6.7				
	e PKPbc	Z	15:22:37.2						
	e PKPab	Z	15:22:46.8						

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/19 17:34:48.3 21.830S 178.090W 624.7 SZGRF
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKP	Z 17:53:19.6	146.2	19.3					
BSEG	e PKPdf	Z 17:53:20.2	147.3	14.5					
	e PKPbc	Z 17:53:23.1							
	e PKPab	Z 17:53:27.0							
HLG	e PKPbc	Z 17:53:23.7	147.3	10.3					
	e PKPab	Z 17:53:27.6							
RUE	e PKPdf	Z 17:53:20.7	148.0	21.1					
	e PKPbc	Z 17:53:24.9							
	e PKPab	Z 17:53:29.6							
	e pPKPbc	Z 17:55:46.4							
NRDL	e PKPdf	Z 17:53:22.0	148.7	14.8					
	e PKPbc	Z 17:53:26.5							
	e PKPab	Z 17:53:32.4							
	e pPKPbc	Z 17:55:49.0							
IBBN	e PKPdf	Z 17:53:23.1	149.2	10.6					
	e PKPbc	Z 17:53:28.2							
	e PKPab	Z 17:53:34.8							
CLZ	e PKPdf	Z 17:53:23.1	149.3	15.5					
	e PKPbc	Z 17:53:28.5							
	e PKPab	Z 17:53:35.0							
	e pPKPbc	Z 17:55:50.8							
CLL	e PKPdf	Z 17:53:22.5	149.3	20.5					
	e PKPbc	Z 17:53:27.9							
	e PKPab	Z 17:53:34.6							

BRG	e PKPdf	Z	17:53:23.1	149.5	22.4
	e PKPbc	Z	17:53:28.4		
	e PKPab	Z	17:53:35.6		
BUG	e PKPdf	Z	17:53:24.4	150.1	10.0
	e PKPbc	Z	17:53:29.8		
	e PKPab	Z	17:53:38.4		
MOX	e PKPdf	Z	17:53:24.3	150.2	18.4
	e PKPbc	Z	17:53:30.1		
	e PKPab	Z	17:53:38.6		
	e pPKPbc	Z	17:55:52.7		
WERD	e PKPdf	Z	17:53:24.3	150.2	19.7
	e PKPbc	Z	17:53:30.4		
	e PKPab	Z	17:53:39.1		
GUNZ	e PKPdf	Z	17:53:24.8	150.3	19.8
	e PKPbc	Z	17:53:30.7		
	e PKPab	Z	17:53:39.5		
	e pPKPbc	Z	17:55:53.5		
UBBA	e PKPdf	Z	17:53:24.5	150.3	15.3
	e PKPbc	Z	17:53:30.0		
	e PKPab	Z	17:53:38.8		
NOTT	e PKPdf	Z	17:53:25.3	150.9	19.8
	e PKPbc	Z	17:53:31.6		
	e PKPab	Z	17:53:41.8		
TNS	e PKPdf	Z	17:53:26.0	151.1	12.7
	e PKPbc	Z	17:53:32.5		
	e PKPab	Z	17:53:42.8		
GRA1	e PKPdf	Z	17:53:25.9	151.2	18.2
	e PKPbc	Z	17:53:32.5		
	e PKPab	Z	17:53:43.2		
	e pPKPbc	Z	17:55:55.6		
	e PP	Z	17:57:17.9		
	e PPP	Z	18:00:55.1		
	e SKKSac	N	18:03:08.3		
	e SS	E	18:15:52.4		
e SSS	E	18:21:47.6			
WET	e PKPdf	Z	17:53:25.9	151.3	21.6
	e PKPbc	Z	17:53:32.5		
	e PKPab	Z	17:53:43.7		
GEC2	e PKPdf	Z	17:53:25.9	151.4	23.3
	e PKPbc	Z	17:53:32.7		
	e PKPab	Z	17:53:43.6		
WLF	e PKPdf	Z	17:53:28.0	152.0	8.4
	e PKPbc	Z	17:53:34.9		
	e PKPab	Z	17:53:46.8		
STU	e PKPdf	Z	17:53:27.7	152.4	14.7
	e PKPbc	Z	17:53:35.0		
	e PKPab	Z	17:53:48.1		
FUR	e PKPdf	Z	17:53:28.1	152.6	19.2
	e PKPbc	Z	17:53:36.0		

	e PKPab	Z	17:53:49.1								
BFO	e PKPdf	Z	17:53:28.3	153.0	13.2						
	e PKPbc	Z	17:53:36.2								
	e PKPab	Z	17:53:50.3								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 19:20:08.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	19:45:25.1	6.196N	95.806E	33.0N	4.4			SZGRF
Nicobar Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:57:41.1	81.8	90.1	1.1	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/19	23:26:14.7	23.177N	125.453E	33.0N	4.6			SZGRF
Southwestern Ryukyu Islands, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:38:56.0	86.8	57.1	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/20								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:54:37.4							
WET	e P	Z 00:54:25.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/20	01:53:42.2	34.600N	131.130E	13.6	5.9	7.4		SZGRF
Western Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 02:05:31.6	76.1	48.6	1.4	319	6.3		
RUE	e P	Z 02:05:38.2	77.3	48.5	1.4	312	6.3		

BSEG	e P	Z	02:05:41.1	77.8	46.3	1.5	163	5.9		
BRG	e P	Z	02:05:43.4	78.3	48.4	0.6	49	5.7		
CLL	e P	Z	02:05:43.9	78.4	47.8	1.3	216	6.0		
HLG	e P	Z	02:05:45.6	78.7	44.6	1.3	186	6.0		
NRDL	e P	Z	02:05:47.2	78.9	46.0	1.5	124	5.7		
CLZ	e P	Z	02:05:49.2	79.3	46.1	1.4	236	5.9		
WERD	e P	Z	02:05:49.2	79.3	47.2	1.3	89	5.5		
GUNZ	e P	Z	02:05:49.6	79.4	47.2	1.4	110	5.6		
MOX	e P	Z	02:05:50.4	79.5	46.8	1.5	106	5.6		
GEC2	e P	Z	02:05:51.1	79.7	47.9	1.3	56	5.3		
NOTT	e P	Z	02:05:52.4	79.9	47.0	1.4	165	5.8		
WET	e P	Z	02:05:52.6	79.9	47.4	1.7	91	5.4		
IBBN	e P	Z	02:05:53.1	80.1	44.3	1.4	185	5.8		
UBBA	e P	Z	02:05:53.5	80.1	45.7	1.5	140	5.7		
GRA1	e P	Z	02:05:55.3	80.4	46.4	1.3	352	6.2		
	e pP	Z	02:05:59.2							
	e PP	Z	02:09:10.0							
	e S	N	02:16:15.7							
	e SS	E	02:21:37.6							
	e SKKSdf	Z	02:32:40.4							
	e L	Z	02:45:15.7			18.8	155641		7.4	
BUG	e P	Z	02:05:57.5	80.9	43.8	1.4	212	6.0		
TNS	e P	Z	02:05:59.8	81.3	44.5	1.3	148	6.0		
FUR	e P	Z	02:06:00.5	81.4	46.2	1.5	401	6.3		
STU	e P	Z	02:06:03.0	81.9	44.9	1.3	119	5.9		
BFO	e P	Z	02:06:06.8	82.7	44.2	1.5	348	6.4		
WLF	e P	Z	02:06:07.5	82.7	42.8	1.8	571	6.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/20 07:59:57.6 52.829N 164.286W 33.0N 4.9
 South of Alaska SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:11:49.8	77.4	357.2	1.1	10	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/20

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 13:37:09.1							

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/20

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:33:29.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/20	19:20:17.0	36.826N	21.900E	33.0N				SZGRF

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:23:52.2	15.0	145.0	1.1	6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/20	19:12:45.9	16.577N	94.506W	33.0N	4.9			SZGRF

Oaxaca, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:25:29.0	87.2	292.5	1.6	16	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/20	22:13:53.6	5.800S	148.800E	126.0N				EMSC-A

New Britain, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 22:32:36.8	123.5	53.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:43:38.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	05:47:39.1							SZGRF

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:51:14.3			0.7	4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	10:47:45.9	35.288N	141.370E	33.0N	5.1			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:00:14.6	84.3	38.8	1.2	14	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	12:23:59.0	24.240S	62.270W	573.3	6.7			SZGRF

Salta Province, Argentina

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 12:36:22.0	95.5	238.4	1.2	472	6.8		
	e pP	Z 12:38:29.1							
	e PP	Z 12:40:21.8							
	e SKSac	R 12:46:03.0							
BFO	e P	Z 12:36:24.1	96.0	239.9	1.3	176	6.4		
	e PP	Z 12:40:27.7							
	e SKSac	R 12:46:05.9							
STU	e P	Z 12:36:27.5	96.8	240.5	1.2	315	6.8		
	e PP	Z 12:40:32.2							
	e SKSac	R 12:46:10.2							
BUG	e P	Z 12:36:28.4	97.0	239.4	1.3	295	6.7		
	e pP	Z 12:38:35.8							
	e PP	Z 12:40:34.7							
	e SKSac	R 12:46:12.0							
TNS	e P	Z 12:36:28.6	97.1	240.1	1.4	269	6.7		
	e PP	Z 12:40:35.1							
	e SKSac	R 12:46:13.0							
FUR	e Pdiff	Z 12:36:31.9	97.7	241.9					
	e PP	Z 12:40:38.4							
	e SKSac	R 12:46:14.7							
IBBN	e Pdiff	Z 12:36:31.5	97.7	239.9					
	e PP	Z 12:40:39.7							
	e SKSac	R 12:46:14.6							
UBBA	e Pdiff	Z 12:36:33.9	98.2	241.3					
	e PP	Z 12:40:43.0							
	e SKSac	R 12:46:19.3							
GRFO	e PP	Z 12:40:43.3	98.4	242.1					
GRA1	e Pdiff	Z 12:36:35.2	98.4	242.1					
	e pPdiff	Z 12:38:40.9							
	e PP	Z 12:40:43.2							
	e SKSac	R 12:46:20.6							
	e Sdiff	T 12:47:15.9							
	e SP	Z 12:48:43.7							
	e sS	T 12:51:03.3							

	e SSS	T	12:57:50.0		
HLG	e PP	Z	12:40:45.8	98.7	240.2
	e SKSac	R	12:46:20.9		
CLZ	e Pdiff	Z	12:36:37.1	98.9	241.8
	e pPdiff	Z	12:38:44.5		
	e PP	Z	12:40:48.1		
	e SKSac	R	12:46:23.5		
NOTT	e Pdiff	Z	12:36:37.6	98.9	242.7
	e PP	Z	12:40:48.4		
	e SKSac	R	12:46:21.7		
MOX	e Pdiff	Z	12:36:37.9	99.0	242.5
	e pPdiff	Z	12:38:45.7		
	e PP	Z	12:40:49.1		
	e SKSac	R	12:46:23.6		
NRDL	e Pdiff	Z	12:36:38.2	99.1	241.6
	e pPdiff	Z	12:38:45.6		
	e PP	Z	12:40:49.7		
	e SKSac	R	12:46:23.7		
WET	e Pdiff	Z	12:36:38.0	99.1	243.2
	e PP	Z	12:40:48.5		
	e SKSac	R	12:46:21.3		
GUNZ	e Pdiff	Z	12:36:39.6	99.3	243.0
	e PP	Z	12:40:51.0		
WERD	e Pdiff	Z	12:36:39.5	99.3	243.0
	e PP	Z	12:40:51.1		
GEC2	e Pdiff	Z	12:36:39.4	99.4	243.7
	e pPdiff	Z	12:38:47.6		
	e PP	Z	12:40:51.6		
	e SKSac	R	12:46:22.7		
BSEG	e Pdiff	Z	12:36:41.0	99.9	242.0
	e PP	Z	12:40:54.6		
	e SKSac	R	12:46:27.4		
CLL	e Pdiff	Z	12:36:42.8	100.1	243.6
	e pPdiff	Z	12:38:50.0		
	e PP	Z	12:40:56.6		
	e SKSac	R	12:46:27.7		
BRG	e Pdiff	Z	12:36:44.3	100.4	244.2
	e PP	Z	12:40:59.3		
	e SKSac	R	12:46:29.0		
RUE	e Pdiff	Z	12:36:46.7	101.1	244.4
	e PP	Z	12:41:04.0		
	e SKSac	R	12:46:31.3		
RGN	e Pdiff	Z	12:36:49.7	101.7	244.4
	e PP	Z	12:41:06.6		
	e SKSac	R	12:46:35.4		

2005/03/21 12:42: 7.8
Salta Province, Argentina

25.530S

64.460W

583.0G

6.6

szgrf

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 12:55:40.4	97.7	239.2	1.0	224	6.8		
	e pP	Z 12:57:46.5							
	e PP	Z 12:59:36.6							
BFO	e P	Z 12:55:42.5	98.3	240.6	1.0	68	6.3		
	e pP	Z 12:57:48.7							
	e PP	Z 12:59:41.1							
STU	e P	Z 12:55:45.5	99.0	241.2	1.0	179	6.8		
	e pP	Z 12:57:52.0							
	e PP	Z 12:59:43.3							
BUG	e P	Z 12:55:46.5	99.2	240.2	1.1	102	6.5		
	e pP	Z 12:57:53.3							
	e PP	Z 12:59:45.3							
TNS	e P	Z 12:55:47.2	99.3	240.9	1.0	95	6.5		
	e pP	Z 12:57:53.6							
	e PP	Z 12:59:48.8							
IBBN	e Pdiff	Z 12:55:49.4	99.9	240.7					
	e pPdiff	Z 12:57:56.1							
	e PP	Z 12:59:54.0							
FUR	e Pdiff	Z 12:55:49.7	100.0	242.6					
	e pPdiff	Z 12:57:56.4							
	e PP	Z 12:59:53.2							
UBBA	e Pdiff	Z 12:55:50.8	100.4	242.1					
	e pPdiff	Z 12:57:58.5							
	e PP	Z 12:59:57.5							
GRFO	e Pdiff	Z 12:55:53.2	100.6	242.8					
	e pPdiff	Z 12:57:59.9							
	e PP	Z 12:59:58.4							
GRA1	e Pdiff	Z 12:55:53.1	100.6	242.8					
	e pPdiff	Z 12:57:59.8							
	e PP	Z 12:59:58.4							
CLZ	e Pdiff	Z 12:55:55.1	101.1	242.6					
	e pPdiff	Z 12:58:01.8							
	e PP	Z 13:00:02.8							
NOTT	e Pdiff	Z 12:55:55.5	101.2	243.5					
	e pPdiff	Z 12:58:02.4							
	e PP	Z 13:00:02.5							
MOX	e Pdiff	Z 12:55:55.9	101.3	243.3					
	e pPdiff	Z 12:58:02.6							
	e PP	Z 13:00:03.9							
NRDL	e Pdiff	Z 12:55:56.1	101.3	242.5					
	e pPdiff	Z 12:58:02.9							
	e PP	Z 13:00:04.3							
WET	e Pdiff	Z 12:55:55.8	101.3	243.9					
	e pPdiff	Z 12:58:03.0							
	e PP	Z 13:00:03.7							

GUNZ	e Pdiff	Z	12:55:57.6	101.6	243.7
	e pPdiff	Z	12:58:04.3		
	e PP	Z	13:00:05.9		
WERD	e Pdiff	Z	12:55:57.5	101.6	243.7
	e pPdiff	Z	12:58:04.2		
	e PP	Z	13:00:06.0		
GEC2	e Pdiff	Z	12:55:57.4	101.7	244.4
	e pPdiff	Z	12:58:04.0		
	e PP	Z	13:00:06.0		
BSEG	e Pdiff	Z	12:55:59.1	102.1	242.9
	e pPdiff	Z	12:58:05.7		
	e PP	Z	13:00:09.0		
CLL	e Pdiff	Z	12:56:00.7	102.4	244.4
	e pPdiff	Z	12:58:07.5		
	e PP	Z	13:00:11.7		
BRG	e Pdiff	Z	12:56:01.4	102.7	245.0
	e pPdiff	Z	12:58:09.1		
	e PP	Z	13:00:14.4		
RUE	e Pdiff	Z	12:56:04.5	103.3	245.2
	e pPdiff	Z	12:58:11.3		
	e PP	Z	13:00:16.5		
RGN	e pPdiff	Z	12:58:14.1	103.9	245.3
	e PP	Z	13:00:25.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	14:14: 0.9	11.772N	94.598E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:25:49.6	76.8	87.3	1.1	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	16:14:40.2	0.576S	24.574W	26.5	5.3			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:24:36.1	58.9	223.1	2.0	60	5.3		
	e pP	Z 16:24:43.5			2.0	60			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	17:06: 7.1	23.750S	177.780W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z 17:25:47.2	148.1	19.5					
BSEG	e PKPbc	Z 17:25:49.6	149.2	14.6					
HLG	e PKPbc	Z 17:25:50.1	149.3	10.2					
RUE	e PKPbc	Z 17:25:51.4	150.0	21.5					
NRDL	e PKPbc	Z 17:25:52.9	150.6	14.8					
IBBN	e PKPbc	Z 17:25:54.0	151.1	10.5					
CLL	e PKPdf	Z 17:25:47.3	151.2	20.8					
	e PKPbc	Z 17:25:54.1							
	e PKPab	Z 17:26:05.0							
CLZ	e PKPdf	Z 17:25:47.7	151.2	15.6					
	e PKPbc	Z 17:25:54.2							
BRG	e PKPdf	Z 17:25:47.6	151.4	22.9					
	e PKPbc	Z 17:25:54.8							
	e PKPab	Z 17:26:06.0							
BUG	e PKPbc	Z 17:25:55.8	152.0	9.9					
	e PKPab	Z 17:26:08.1							
MOX	e PKPdf	Z 17:25:48.2	152.1	18.6					
	e PKPbc	Z 17:25:56.4							
	e PKPab	Z 17:26:08.7							
WERD	e PKPdf	Z 17:25:48.4	152.2	20.1					
	e PKPbc	Z 17:25:56.4							
	e PKPab	Z 17:26:09.3							
GUNZ	e PKPdf	Z 17:25:48.9	152.2	20.2					
	e PKPbc	Z 17:25:56.7							
	e PKPab	Z 17:26:09.6							
UBBA	e PKPdf	Z 17:25:48.3	152.3	15.4					
	e PKPbc	Z 17:25:56.1							
	e PKPab	Z 17:26:09.2							
NOTT	e PKPbc	Z 17:25:57.8	152.8	20.2					
	e PKPab	Z 17:26:11.7							
TNS	e PKPbc	Z 17:25:58.7	153.1	12.7					
	e PKPab	Z 17:26:12.9							
GRA1	e PKPdf	Z 17:25:50.1	153.1	18.5					
	e PKPbc	Z 17:25:58.4							
	e PKPab	Z 17:26:13.1							
WET	e PKPdf	Z 17:25:50.1	153.3	22.1					
	e PKPab	Z 17:26:13.9							
GEC2	e PKPdf	Z 17:25:50.1	153.3	23.9					
	e PKPbc	Z 17:25:58.9							
	e PKPab	Z 17:26:14.1							
WLF	e PKPbc	Z 17:26:00.8	153.9	8.2					
	e PKPab	Z 17:26:16.7							
STU	e PKPbc	Z 17:26:01.3	154.4	14.9					
	e PKPab	Z 17:26:18.5							
FUR	e PKPab	Z 17:26:19.5	154.6	19.6					
BFO	e PKPbc	Z 17:26:02.0	154.9	13.3					
	e PKPab	Z 17:26:20.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	19:07:47.9	13.240N	89.210W	33.0N	5.0			SZGRF

El Salvador

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 19:20:19.9	84.8	285.4	1.3	21	5.2		
GRA1	e P	Z 19:20:28.1	86.5	286.4	1.6	49	5.4		
WERD	e P	Z 19:20:30.4	87.0	287.2	1.3	10	4.8		
GUNZ	e P	Z 19:20:30.8	87.0	287.2	1.2	12	4.9		
NOTT	e P	Z 19:20:31.0	87.0	287.1	1.2	7	4.7		
CLL	e P	Z 19:20:31.1	87.1	287.7	0.9	6	4.8		
WET	e P	Z 19:20:34.3	87.7	287.7	1.9	48	5.5		
GEC2	e P	Z 19:20:36.9	88.3	288.3	1.4	10	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/21	22:46:11.3	9.477N	92.949E	33.0N	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:58:03.7	77.4	90.1	1.0	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/22	02:55:41.4	37.570N	71.020E	33.0G	4.6			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:03:29.5	41.9	85.7	0.9	13	4.6		
GEC2	e P	Z 03:03:32.0	42.2	83.2					
CLL	e P	Z 03:03:33.3	42.4	85.5	0.9	9	4.5		
WET	e P	Z 03:03:35.9	42.7	83.0					
WERD	e P	Z 03:03:38.0	42.9	84.0	1.1	7	4.3		
NOTT	e P	Z 03:03:40.0	43.1	83.2	1.1	10	4.5		
MOX	e P	Z 03:03:41.7	43.3	83.8	1.1	8	4.4		
GRA1	e P	Z 03:03:44.9	43.7	82.5	0.9	9	4.5		
BSEG	e P	Z 03:03:45.9	43.8	86.2	0.8	20	4.9		
FUR	e P	Z 03:03:46.1	43.9	80.9					
CLZ	e P	Z 03:03:46.8	44.0	84.1	0.9	12	4.6		
NRDL	e P	Z 03:03:47.7	44.1	84.6	0.9	13	4.7		
TNS	e P	Z 03:03:57.6	45.4	81.2					
IBBN	e P	Z 03:03:58.8	45.5	82.7	1.1	24	5.1		
BUG	e P	Z 03:04:02.0	45.9	81.5	0.8	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/22	06:55:25.4	30.922N	131.204E	33.0N	4.9	5.2		SZGRF

Kyushu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:07:49.9	83.4	48.4	1.3	11	4.9		
	e L	Z 07:47:03.2			19.2	1049		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/22	09:38:23.8	12.060N	92.530E	40.5	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 09:49:52.8	73.5	91.1	1.1	30	5.3		
GEC2	e P	Z 09:49:53.7	73.6	90.3	1.0	31	5.3		
RUE	e P	Z 09:49:53.3	73.6	91.4	1.0	79	5.7		
CLL	e P	Z 09:49:55.9	74.1	90.5	1.3	34	5.2		
WET	e P	Z 09:49:56.9	74.2	89.8	1.2	30	5.2		
GUNZ	e P	Z 09:49:58.9	74.5	89.7	1.2	29	5.2		
WERD	e P	Z 09:49:58.8	74.5	89.7	1.0	20	5.1		
NOTT	e P	Z 09:50:00.1	74.6	89.4	1.3	30	5.2		
MOX	e P	Z 09:50:01.4	75.0	89.2	1.1	20	5.1		
GRA1	e P	Z 09:50:03.5	75.2	88.7	0.8	27	5.3		
	e pP	Z 09:50:15.1							
FUR	e P	Z 09:50:02.8	75.2	88.3					
BSEG	e P	Z 09:50:05.8	75.7	89.1	1.0	52	5.6		
CLZ	e P	Z 09:50:05.7	75.7	88.6	1.1	41	5.4		
NRDL	e P	Z 09:50:06.9	75.9	88.5	1.3	48	5.5		
UBBA	e P	Z 09:50:06.8	76.0	88.0					
TNS	e P	Z 09:50:13.2	77.0	86.7	1.3	22	5.1		
BFO	e P	Z 09:50:13.8	77.2	86.2	1.4	19	5.0		
BUG	e P	Z 09:50:16.8	77.7	86.1	1.0	26	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/22	14:55: 2.3	20.500S	174.100W	33.0N				EMSC-A

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:15:06.2	150.5	10.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	23:43:47.2	39.311N	41.005E	33.0N	4.9	4.0		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:48:39.2	22.1	110.9	1.9	45	4.6		
WET	e P	Z	23:48:42.9	22.3	105.6	1.4	34	4.6		
CLL	e P	Z	23:48:49.1	22.8	110.7	2.0	102	5.0		
RUE	e P	Z	23:48:47.5	22.9	114.3	1.4	92	5.1		
NOTT	e P	Z	23:48:49.7	22.9	106.2	1.2	19	4.5		
GUNZ	e P	Z	23:48:47.2	22.9	107.7	1.8	45	4.7		
WERD	e P	Z	23:48:49.5	23.0	107.9	3.0	145	5.0		
FUR	e P	Z	23:48:49.9	23.1	101.5	1.2	62	5.0		
GRA1	e P	Z	23:48:54.0	23.4	104.9	1.3	104	5.2		
	e S	E	23:53:13.4							
MOX	e P	Z	23:48:53.3	23.5	107.5	1.5	21	4.4		
RGN	e P	Z	23:48:54.4	24.0	117.9	1.8	176	5.3		
STU	e P	Z	23:49:05.5	24.5	100.7	1.6	57	5.0		
CLZ	e P	Z	23:49:04.3	24.6	108.5	1.8	24	4.6		
BFO	e P	Z	23:49:10.3	25.0	98.9	3.2	166	5.2		
TNS	e P	Z	23:49:09.7	25.3	103.0	2.3	138	5.3		
BSEG	e P	Z	23:49:11.0	25.3	112.7	2.5	156	5.3		
GRA1	e L	Z	00:00:38.4	23.4	104.9	19.4	549		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	00:59:6.0	73.411N	8.392E	33.0N	4.3			SZGRF

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:04:16.0	23.8	358.0	1.8	19	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	02:17:16.2	19.782S	170.931E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z	02:36:48.0	145.0	36.7					
GUNZ	e PKPbc	Z	02:36:48.8	145.0	36.8					
MOX	e PKPbc	Z	02:36:48.2	145.1	35.5					
NOTT	e PKPbc	Z	02:36:50.5	145.6	37.0					
GEC2	e PKPbc	Z	02:36:50.3	145.7	40.2					
WET	e PKPbc	Z	02:36:51.2	145.8	38.7					
GRA1	e PKPbc	Z	02:36:52.1	146.0	35.7					
TNS	e PKPbc	Z	02:36:53.8	146.5	30.9					
WLF	e PKPbc	Z	02:36:57.7	147.7	27.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	05:59:10.8	26.160N	94.820E	70.6	5.6	4.0		SZGRF

Northeastern India

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	06:09:38.9	64.2	79.9	1.0	43	5.6		
BRG	e P	Z	06:09:40.3	64.4	79.3	1.0	29	5.4		
	e pP	Z	06:09:58.7							
CLL	e P	Z	06:09:43.2	64.9	78.8	1.1	21	5.3		
GEC2	e P	Z	06:09:44.1	65.0	78.2	1.0	40	5.6		
WET	e P	Z	06:09:47.1	65.4	77.7	1.0	26	5.4		
WERD	e P	Z	06:09:47.4	65.5	77.9	1.0	22	5.3		
GUNZ	e P	Z	06:09:47.6	65.5	77.9	1.0	37	5.6		
NOTT	e P	Z	06:09:49.6	65.8	77.5	1.0	49	5.7		
MOX	e P	Z	06:09:49.9	65.9	77.5	1.2	28	5.4		
	e pP	Z	06:10:08.6							
BSEG	e P	Z	06:09:50.9	66.0	78.0	0.9	43	5.7		
GRA1	e P	Z	06:09:53.6	66.4	76.8	1.3	59	5.6		
	e pP	Z	06:10:12.1							
	e L	Z	06:39:21.8			31.8	156		4.0	
	e L	Z	06:56:33.3			21.3				
GRFO	e P	Z	06:09:53.6	66.4	76.8					
CLZ	e P	Z	06:09:53.3	66.4	77.1	1.0	48	5.7		
NRDL	e P	Z	06:09:53.7	66.4	77.2	1.3	61	5.7		
FUR	e P	Z	06:09:55.2	66.7	76.2	0.9	70	5.9		
UBBA	e P	Z	06:09:55.7	66.9	76.4	1.8	32	5.3		
STU	e P	Z	06:10:02.5	67.9	75.0	1.1	64	5.8		
TNS	e P	Z	06:10:03.0	68.0	75.1	0.9	24	5.4		
	e pP	Z	06:10:21.9							
BUG	e P	Z	06:10:05.6	68.4	74.7	0.7	20	5.4		
BFO	e P	Z	06:10:06.3	68.5	74.3	1.5	27	5.3		
WLF	e P	Z	06:10:13.5	69.5	73.3	1.1	100	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	09:17:12.9	12.620N	92.060E	33.0N	5.2	4.7		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:28:38.8	72.8	91.1	1.7	49	5.4		
GEC2	e P	Z	09:28:39.5	72.9	90.3	1.3	21	5.1		
RUE	e P	Z	09:28:39.4	72.9	91.4	1.2	53	5.5		
CLL	e P	Z	09:28:41.9	73.4	90.5	1.3	27	5.2		
WET	e P	Z	09:28:42.7	73.4	89.7	1.5	24	5.1		
GUNZ	e P	Z	09:28:44.8	73.8	89.7	1.6	26	5.0		
WERD	e P	Z	09:28:44.8	73.8	89.7	1.1	12	4.8		
NOTT	e P	Z	09:28:46.0	73.9	89.4	1.5	34	5.1		

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MOX	e P	Z	09:28:47.3	74.2	89.2	1.5	32	5.1			
GRA1	e P	Z	09:28:49.3	74.5	88.6	1.9	91	5.5			
	e S	N	09:38:22.5								
	e L	Z	10:08:29.6			19.1	383		4.7		
BSEG	e P	Z	09:28:51.9	75.0	89.1	1.5	46	5.3			
CLZ	e P	Z	09:28:51.7	75.0	88.6	1.6	43	5.2			
NRDL	e P	Z	09:28:53.0	75.1	88.5	1.6	52	5.3			
UBBA	e P	Z	09:28:52.8	75.3	88.0						
TNS	e P	Z	09:28:59.0	76.3	86.7	2.0	46	5.3			
BFO	e P	Z	09:29:00.2	76.5	86.1	1.6	30	5.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z 12:39:46.3							
GEC2	e PKP	Z 12:39:51.2							
GRA1	e PKP	Z 12:39:49.6							
NOTT	e PKP	Z 12:39:49.2							
TNS	e PKP	Z 12:39:49.9							
WLF	e PKP	Z 12:39:50.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Sn	N 13:57:29.0							
	e Sg	N 13:57:34.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	13:59:19.1	55.268S	1.532W	25.0G		5.1		NEIC-M
Bouvet Island region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e SS	E 14:32:31.9	103.9	185.8					
FUR	e PP	Z 14:17:41.7	104.0	187.5					
	e SS	N 14:32:34.0							
GEC2	e SS	E 14:32:44.2	104.9	188.9					
WET	e SS	N 14:32:46.5	105.1	188.4					
WLF	e PP	Z 14:15:49.6	105.1	184.5					
GRFO	e PP	Z 14:17:56.4	105.5	187.5					
GRA1	e PP	Z 14:17:54.9	105.5	187.5					
	e SP	Z 14:27:12.4							

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	e SS	E	14:32:52.5						
	e L	Z	14:57:37.4			21.7	616	5.1	
NOTT	e PP	Z	14:17:58.0	105.7	188.0				
	e SS	E	14:32:54.6						
TNS	e PP	Z	14:16:53.1	105.8	185.9				
	e SS	N	14:32:46.1						
MOX	e PP	Z	14:18:02.2	106.5	187.8				
	e SS	E	14:33:05.5						
UBBA	e SS	E	14:33:06.7	106.5	186.8				
BRG	e SS	E	14:33:12.0	106.9	189.1				
CLL	e PP	Z	14:18:06.6	107.3	188.6				
	e SS	N	14:33:16.5						
IBBN	e PP	Z	14:18:09.8	107.9	185.5				
NRDL	e SS	E	14:33:31.5	108.2	186.9				
RUE	e SS	E	14:33:26.5	108.5	189.1				
BSEG	e SS	E	14:33:49.3	109.6	187.1				
HLG	e PP	Z	14:18:29.7	109.7	185.7				
RGN	e SS	N	14:34:02.4	110.5	189.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	21:11:59.1	13.030S	57.190W	33.0N	5.1			SZGRF

Brazil

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 21:24:23.6	83.6	241.2	1.8	43	5.4		
BFO	e P	Z 21:24:25.7	84.3	243.0	1.5	22	5.1		
IBBN	e P	Z 21:24:34.6	85.8	242.3	0.6	15	5.3		
FUR	e P	Z 21:24:36.1	86.0	245.3	0.6	12	5.2		
GRA1	e P	Z 21:24:38.4	86.6	245.2	1.1	15	5.0		
NRDL	e P	Z 21:24:41.1	87.1	244.1	1.7	33	5.2		
NOTT	e P	Z 21:24:42.0	87.1	245.9	2.1	39	5.2		
MOX	e P	Z 21:24:41.4	87.2	245.4	2.1	23	4.9		
WET	e P	Z 21:24:41.6	87.3	246.5	1.7	16	4.9		
GUNZ	e P	Z 21:24:42.9	87.5	246.0	1.9	28	5.1		
WERD	e P	Z 21:24:43.8	87.5	246.0	1.4	9	4.7		
GEC2	e P	Z 21:24:43.5	87.7	247.1	1.7	10	4.9		
BSEG	e P	Z 21:24:44.9	87.9	244.3	1.5	16	5.1		
CLL	e P	Z 21:24:46.6	88.3	246.5	0.9	8	5.0		
BRG	e P	Z 21:24:48.2	88.6	247.2	1.6	10	4.9		
RGN	e P	Z 21:24:52.9	89.7	246.7	1.3	58	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/23	21:44:59.4	39.530N	40.320E	33.0N	5.4	5.0		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:49:42.6	21.1	106.2	1.4	224	5.3		
BRG	e P	Z 21:49:47.5	21.6	111.4	1.7	264	5.4		
WET	e P	Z 21:49:48.4	21.7	105.9	1.3	147	5.3		
CLL	e P	Z 21:49:54.9	22.3	111.2	1.5	181	5.3		
RUE	e P	Z 21:49:54.8	22.3	114.8	1.4	412	5.7		
NOTT	e P	Z 21:49:55.6	22.4	106.6	1.2	130	5.2		
GUNZ	e P	Z 21:49:56.1	22.4	108.1	1.3	128	5.2		
WERD	e P	Z 21:49:56.3	22.4	108.3	1.6	129	5.1		
FUR	e P	Z 21:49:57.2	22.5	101.7	1.2	254	5.6		
GRA1	e P	Z 21:50:01.3	22.9	105.2	1.8	1152	6.1		
	e S	E 21:54:16.7							
	e L	Z 22:01:39.5			19.0	4805		5.0	
MOX	e P	Z 21:50:01.0	22.9	107.9	1.3	59	5.0		
RGN	e P	Z 21:50:07.4	23.5	118.6	1.7	698	5.9		
UBBA	e P	Z 21:50:10.9	23.9	106.3	1.6	102	5.1		
STU	e P	Z 21:50:11.2	24.0	100.9	1.8	321	5.5		
CLZ	e P	Z 21:50:11.8	24.0	109.0	1.5	151	5.3		
NRDL	e P	Z 21:50:15.9	24.4	110.0	2.2	232	5.3		
BFO	e P	Z 21:50:16.5	24.4	99.1	1.8	132	5.4		
TNS	e P	Z 21:50:19.3	24.7	103.3	2.0	435	5.8		
BSEG	e P	Z 21:50:19.8	24.8	113.2	1.5	236	5.7		
IBBN	e P	Z 21:50:28.7	25.7	106.8	1.8	295	5.6		
BUG	e P	Z 21:50:28.7	25.8	104.5	1.2	58	5.1		
WLF	e P	Z 21:50:31.2	26.1	99.8	1.1	51	5.1		
HLG	e P	Z 21:50:35.7	26.2	110.6	1.3	328	5.8		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/24 03:27:3.9 49.779N 23.734W 33.0N 4.6
 North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:32:00.7	22.4	283.7	1.0	29	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/24 06:18:37.6 40.599N 144.578E 33.0N 5.2
 Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:30:48.6	80.8	34.0	1.0	23	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/24 07:33:54.5 7.110N 33.845W 33.0N 5.4
 SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:43:35.8	56.8	237.1	1.4	55	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/24	07:37:35.4	38.548N	82.533E	33.0N	5.2			SZGRF

Southern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:46:29.9	50.4	74.0	1.1	34	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/24	17:04:28.6	35.940N	70.391E	33.0N	4.7			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:12:35.3	44.3	84.8	1.3	18	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/25	01:04:48.5	4.740N	94.701E	33.0N	6.1	5.2		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:16:57.1	80.5	94.2	1.8	432	6.2		
GEC2	e P	Z 01:16:57.5	80.5	93.7	0.9	224	6.2		
RUE	e P	Z 01:16:58.0	80.7	94.3					
WET	e P	Z 01:17:00.3	81.1	93.1					
CLL	e P	Z 01:16:59.9	81.1	93.5	1.3	138	5.8		
RGN	e P	Z 01:17:00.4	81.1	94.3					
GUNZ	e P	Z 01:17:02.5	81.5	92.9					
WERD	e P	Z 01:17:02.4	81.5	92.8					
NOTT	e P	Z 01:17:03.4	81.6	92.6					
MOX	e P	Z 01:17:04.8	82.0	92.3	0.9	69	5.8		
FUR	e P	Z 01:17:05.3	82.1	91.7	1.4	205	6.1		
GRA1	e P	Z 01:17:06.5	82.2	91.9	0.9	194	6.2		
	e S	N 01:27:14.3							
	e L	Z 01:58:39.3			21.6	1223		5.2	
CLZ	e P	Z 01:17:09.1	82.8	91.5	1.1	168	6.2		
BSEG	e P	Z 01:17:09.6	82.9	91.7					
NRDL	e P	Z 01:17:10.4	83.0	91.4					
UBBA	e P	Z 01:17:10.0	83.0	91.1					
STU	e P	Z 01:17:12.6	83.5	90.2					

TNS	e P	Z	01:17:15.5	84.0	89.8						
BFO	e P	Z	01:17:15.4	84.1	89.5	1.1		93	5.9		
IBBN	e P	Z	01:17:17.5	84.4	89.5						
BUG	e P	Z	01:17:19.1	84.7	89.0						
WLF	e P	Z	01:17:23.4	85.5	88.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/25	03:26:58.7	4.268N	96.282E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:39:23.9	83.6	91.0	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/25	06:13:38.0	38.822N	40.903E	33.0N	4.6			SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:18:47.1	23.7	106.0	1.1	20	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/25	12:48:24.3	31.617N	53.093E	33.0N	4.7			SZGRF

Northern and central Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:55:21.7	35.9	104.3	0.9	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/25	13:34:34.9	24.626N	94.516E	33.0N	5.6			SZGRF

Myanmar-India border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 13:45:12.3	65.2	81.3					
BRG	e P	Z 13:45:13.6	65.3	80.7					
GEC2	e P	Z 13:45:17.2	65.8	79.6	1.1	42	5.6		
CLL	e P	Z 13:45:16.4	65.9	80.2	1.1	27	5.4		
WET	e P	Z 13:45:20.2	66.3	79.1	0.8	23	5.4		
GUNZ	e P	Z 13:45:20.8	66.4	79.3					
WERD	e P	Z 13:45:20.6	66.4	79.3					
NOTT	e P	Z 13:45:22.7	66.7	78.9					
MOX	e P	Z 13:45:23.1	66.8	78.9	1.2	33	5.4		

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BSEG	e P	Z	13:45:24.3	67.0	79.3	0.9	68	5.9
GRA1	e P	Z	13:45:26.6	67.3	78.2	1.7	107	5.8
	e		13:45:44.2					
CLZ	e P	Z	13:45:26.6	67.4	78.5	1.0	52	5.7
NRDL	e P	Z	13:45:27.1	67.4	78.5			
FUR	e P	Z	13:45:28.1	67.6	77.6	0.9	50	5.8
STU	e P	Z	13:45:35.6	68.8	76.4			
IBBN	e P	Z	13:45:35.7	68.8	76.7			
TNS	e P	Z	13:45:36.2	68.9	76.4	0.9	33	5.6
BUG	e P	Z	13:45:38.8	69.3	76.0			
BFO	e P	Z	13:45:39.2	69.4	75.7	0.9	15	5.1
WLF	e P	Z	13:45:46.6	70.5	74.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/25	23:19:25.0	44.491N	6.697E	10.0G			3.6	SZGRF

France

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	23:20:21.4	3.6	219.6					3.6
	e Sn	E	23:21:02.0							
BFO	e Pn	Z	23:20:27.4	4.0	196.9					3.5
	e Sn	N	23:21:12.6							
WTTA	e Pn	Z	23:20:32.8	4.4	232.9					3.5
	e Sn	E	23:21:24.3							
KBA	e Pn	Z	23:20:44.3	5.3	243.2					
OBKA	e Pn	Z	23:20:50.3	5.9	252.7					
GRA1	e Sn	E	23:21:58.2	6.0	212.3					3.8
MOA	e Pn	Z	23:20:57.1	6.2	240.1					
WET	e Pn	Z	23:20:55.9	6.3	224.6					
GEC2	e Pn	Z	23:20:59.3	6.5	230.4					3.8
ARSA	e Pn	Z	23:21:02.2	6.7	249.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/26	02:42: 4.5	16.628S	173.176W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	03:01:39.5	145.8	8.2					
GUNZ	e PKPbc	Z	03:01:40.4	146.0	9.5					
TNS	e PKPbc	Z	03:01:41.1	146.4	2.8					
NOTT	e PKPbc	Z	03:01:41.8	146.5	9.2					
GRA1	e PKPbc	Z	03:01:42.6	146.7	7.7					
GRFO	e PKPbc	Z	03:01:42.6	146.7	7.7					
WET	e PKPbc	Z	03:01:43.8	147.1	10.7					
GEC2	e PKPbc	Z	03:01:44.2	147.3	12.3					

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STU	e	PKPbc	Z	03:01:45.8	147.8	4.3
FUR	e	PKPbc	Z	03:01:47.1	148.3	8.1
BFO	e	PKPbc	Z	03:01:47.1	148.3	2.7
ARSA	e	PKPbc	Z	03:01:48.0	148.5	16.1
WTTA	e	PKPbc	Z	03:01:49.5	149.1	9.0
DAVA	e	PKPbc	Z	03:01:49.8	149.2	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/26	04:22:10.0	25.030S	179.270W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	04:41:57.7	150.2	17.7			
	e	PKPab	Z	04:42:03.9					
RUE	e	PKPbc	Z	04:41:59.3	150.8	24.8			
NRDL	e	PKPbc	Z	04:42:00.9	151.6	18.1			
CLL	e	PKPbc	Z	04:42:02.1	152.1	24.3			
	e	PKPab	Z	04:42:11.0					
CLZ	e	PKPbc	Z	04:42:02.5	152.2	19.0			
IBBN	e	PKPbc	Z	04:42:02.1	152.2	13.8			
	e	PKPab	Z	04:42:12.0					
BRG	e	PKPbc	Z	04:42:02.5	152.2	26.4			
WERD	e	PKPbc	Z	04:42:04.4	153.1	23.7			
GUNZ	e	PKPbc	Z	04:42:04.7	153.1	23.8			
GRA1	e	PKPbc	Z	04:42:05.4	154.0	22.1			
FUR	e	PKPab	Z	04:42:26.1	155.4	23.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/26	05:03:15.7	2.739S	151.010E	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e	PKPdf	Z	05:22:11.1					
BRG	e	PKPdf	Z	05:22:02.7					
BSEG	e	PKPdf	Z	05:22:02.2					
BUG	e	PKPdf	Z	05:22:08.2					
CLL	e	PKPdf	Z	05:22:02.9					
CLZ	e	PKPdf	Z	05:22:05.0					
FUR	e	PKPdf	Z	05:22:08.8					
GEC2	e	PKPdf	Z	05:22:05.6					
GRA1	e	PKPdf	Z	05:22:07.0					
GUNZ	e	PKPdf	Z	05:22:04.8					
IBBN	e	PKPdf	Z	05:22:06.7					
MOX	e	PKPdf	Z	05:22:05.3					
NOTT	e	PKPdf	Z	05:22:05.9					

NRDL	e	PKPdf	Z	05:22:04.3
RUE	e	PKPdf	Z	05:22:01.0
STU	e	PKPdf	Z	05:22:09.8
TNS	e	PKPdf	Z	05:22:08.8
UBBA	e	PKPdf	Z	05:22:06.5
WERD	e	PKPdf	Z	05:22:04.9
WET	e	PKPdf	Z	05:22:05.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/26	15:40:46.9	1.384S	133.898E	33.0N		5.7		SZGRF

Irian Jaya, Indonesia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 15:55:40.0	111.6	64.8					
	e PP	Z 15:59:59.6							
	e L	Z 16:54:02.6			20.4	2038		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/26	20:32: 7.9	27.824N	88.094E	33.0N	5.0			SZGRF

Sikkim, India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 20:42:03.4	58.9	83.7					
BRG	e P	Z 20:42:04.2	59.0	82.8					
GEC2	e P	Z 20:42:07.4	59.5	81.5	1.1	15	5.0		
WET	e P	Z 20:42:10.7	60.0	81.1	2.0	36	5.1		
GUNZ	e P	Z 20:42:11.8	60.1	81.4					
WERD	e P	Z 20:42:11.7	60.1	81.4					
NOTT	e P	Z 20:42:13.7	60.3	80.9	1.0	17	5.0		
MOX	e P	Z 20:42:14.5	60.5	81.0	0.9	9	4.6		
BSEG	e P	Z 20:42:16.3	60.8	81.9	0.9	32	5.2		
GRA1	e P	Z 20:42:18.0	60.9	80.2	1.6	33	4.9		
CLZ	e P	Z 20:42:18.5	61.1	80.8	0.8	32	5.2		
NRDL	e P	Z 20:42:19.0	61.2	80.9					
FUR	e P	Z 20:42:07.4	61.2	79.4					
	e P	Z 20:42:19.2							
STU	e P	Z 20:42:27.2	62.4	78.3					
TNS	e P	Z 20:42:28.4	62.6	78.5	0.9	17	5.2		
IBBN	e P	Z 20:42:28.6	62.6	79.1					
BUG	e P	Z 20:42:31.6	63.1	78.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/27	06:09:24.7	4.486N	95.315E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:21:45.7	82.8	91.6	0.8	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/27	08:03:40.1	1.702S	79.711W	33.0N	5.3			SZGRF

Ecuador

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:16:45.4	91.9	269.6	1.5	24	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	00:01:34.2	0.413S	19.653W	33.0N	5.2			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 00:10:58.5	54.4	215.2	1.1	26	5.2		
STU	e P	Z 00:11:03.3	55.1	216.0					
FUR	e P	Z 00:11:06.4	55.5	218.6					
TNS	e P	Z 00:11:10.1	56.0	214.6	0.9	26	5.2		
BUG	e P	Z 00:11:14.2	56.6	212.8					
GRA1	e P	Z 00:11:14.5	56.7	217.9	1.0	30	5.3		
WET	e P	Z 00:11:16.5	56.9	219.9	1.0	30	5.3		
GEC2	e P	Z 00:11:17.5	57.0	220.9	1.0	20	5.1		
NOTT	e P	Z 00:11:17.7	57.1	218.8					
IBBN	e P	Z 00:11:20.5	57.5	213.1					
MOX	e P	Z 00:11:21.2	57.6	218.0	0.9	20	5.1		
GUNZ	e P	Z 00:11:21.5	57.6	218.8					
WERD	e P	Z 00:11:21.8	57.7	218.8					
NRDL	e P	Z 00:11:28.0	58.5	215.6					
CLL	e P	Z 00:11:28.5	58.6	219.2					
BSEG	e P	Z 00:11:35.6	59.7	215.3	0.8	36	5.4		
RUE	e P	Z 00:11:37.2	59.8	219.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	11:01:38.0	44.566N	146.391E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 11:13:14.3	74.6	30.8	1.2	36	5.3		
NRDL	e P	Z 11:13:21.5	75.9	30.5					
CLL	e P	Z 11:13:21.6	76.0	32.2	1.0	34	5.4		

BRG	e P	Z	11:13:22.1	76.1	32.8	1.2	14	5.0
CLZ	e P	Z	11:13:24.7	76.4	30.6	1.2	37	5.4
IBBN	e P	Z	11:13:26.4	76.8	28.9			
WERD	e P	Z	11:13:27.4	77.0	31.7			
MOX	e P	Z	11:13:27.6	77.0	31.3	1.2	14	5.0
GUNZ	e P	Z	11:13:28.0	77.0	31.7			
NOTT	e P	Z	11:13:30.7	77.6	31.5			
BUG	e P	Z	11:13:31.2	77.7	28.5			
GEC2	e P	Z	11:13:32.0	77.9	32.4	1.0	7	4.8
WET	e P	Z	11:13:32.9	77.9	31.9	1.0	16	5.1
GRA1	e P	Z	11:13:33.4	78.0	30.9	1.1	36	5.4
TNS	e P	Z	11:13:35.3	78.4	29.2	1.3	13	4.8
FUR	e P	Z	11:13:40.3	79.3	30.8	0.7	21	5.2
STU	e P	Z	11:13:40.8	79.4	29.5			

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/28 16:09:38.5 2.640N 96.620E 33.0N 7.1 8.2
 Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
SUW	e P	Z	16:21:35.9	78.2	102.0					
OKC	e P	Z	16:21:49.7	80.6	97.2					
MORC	e P	Z	16:21:51.7	80.9	102.5					
ARSA	e P	Z	16:21:57.4	82.0	94.8					
OBKA	e P	Z	16:22:00.7	82.6	93.9					
PRU	e P	Z	16:22:02.2	82.9	94.4					
MOA	e P	Z	16:22:01.7	82.9	93.9					
BSD	e P	Z	16:22:02.1	83.1	95.3					
BRG	e P	Z	16:22:04.0	83.3	94.0	1.3	1665	7.1		
KHC	e P	Z	16:22:04.9	83.5	93.5					
KBA	e P	Z	16:22:04.4	83.5	93.1					
RUE	e P	Z	16:22:05.4	83.5	94.1	1.6	6256	7.6		
WET	e P	Z	16:22:07.3	83.9	93.0	1.3	1801	7.1		
CLL	e P	Z	16:22:06.9	84.0	93.3	1.4	1632	7.1		
	e L	Z	17:05:30.9			22.0	1024186		8.2	
NKC	e P	Z	16:22:08.9	84.2	92.8					
GUNZ	e P	Z	16:22:09.3	84.3	92.7	1.5	1536	7.0		
WERD	e P	Z	16:22:09.1	84.3	92.7	1.2	796	6.8		
NOTT	e P	Z	16:22:10.2	84.4	92.5	1.3	880	6.8		
WTTA	e P	Z	16:22:10.1	84.7	91.9					
MOX	e P	Z	16:22:11.7	84.8	92.2	1.4	1453	6.9		
	e L	Z	17:09:34.8			19.8	993025		8.2	
GRA1	e P	Z	16:22:13.2	85.0	91.8	1.1	2206	7.2		
	e L	Z	17:08:13.1			20.6	1509574		8.4	
CLZ	e P	Z	16:22:15.7	85.6	91.3	1.4	2086	7.1		
BSEG	e P	Z	16:22:16.1	85.7	91.4	1.5	2935	7.2		
	e L	Z	17:06:23.5			20.9	1288707		8.3	

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DAVA	e P	Z	16:22:16.4	85.8	90.6					
TNS	e P	Z	16:22:21.6	86.8	89.7	1.3	1489	7.2		
	e L	Z	17:08:56.9			22.0	1138048	8.2		
BFO	e P	Z	16:22:21.3	86.9	89.5	0.9	749	7.0		
	e L	Z	17:09:31.7			21.3	624582	8.0		
IBBN	e P	Z	16:22:23.7	87.2	89.3	1.7	5930	7.6		
BUG	e P	Z	16:22:25.0	87.5	88.9	1.3	2115	7.3		
WLF	e P	Z	16:22:29.0	88.3	87.9	1.3	2062	7.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	16:34:5.3	2.259N	96.946E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:46:31.9	83.8	94.0					
GEC2	e P	Z 16:46:32.2	83.9	93.6	1.0	10	5.0		
WET	e P	Z 16:46:34.7	84.4	93.0	0.9	7	4.9		
CLL	e P	Z 16:46:34.7	84.5	93.3					
GRA1	e P	Z 16:46:40.3	85.5	91.8	1.0	8	4.8		
CLZ	e P	Z 16:46:43.3	86.1	91.3	1.6	58	5.5		
BSEG	e P	Z 16:46:43.8	86.2	91.4	1.0	15	5.1		
NRDL	e P	Z 16:46:44.5	86.3	91.1					
TNS	e P	Z 16:46:49.6	87.3	89.7					
BFO	e P	Z 16:46:48.7	87.4	89.5	1.0	4	4.5		
IBBN	e P	Z 16:46:51.0	87.7	89.3					
BUG	e P	Z 16:46:52.7	88.0	88.8					
WLF	e P	Z 16:46:56.8	88.8	87.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	16:34:56.0	3.533N	96.386E	33.0N	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:47:15.1	82.5	93.6					
GEC2	e P	Z 16:47:14.8	82.5	93.2	1.0	23	5.4		
RUE	e P	Z 16:47:15.6	82.7	93.7					
WET	e P	Z 16:47:18.2	83.1	92.6					
NOTT	e P	Z 16:47:21.0	83.6	92.1					
MOX	e P	Z 16:47:22.6	84.0	91.8					
FUR	e P	Z 16:47:23.1	84.1	91.3					
GRA1	e P	Z 16:47:24.4	84.2	91.4	0.9	31	5.5		
CLZ	e P	Z 16:47:27.0	84.8	90.9	0.9	12	5.2		
BSEG	e P	Z 16:47:26.6	84.8	91.1					
NRDL	e P	Z 16:47:27.4	84.9	90.8					
TNS	e P	Z 16:47:32.5	86.0	89.3	0.9	15	5.1		

BFO	e P	Z	16:47:32.8	86.1	89.1	0.8	11	5.0
IBBN	e P	Z	16:47:34.9	86.4	88.9			
BUG	e P	Z	16:47:36.5	86.7	88.5			
WLF	e P	Z	16:47:40.2	87.5	87.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	16:38:45.5	0.711N	96.427E	33.0N	6.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:51:15.9	84.7	95.0	1.3	177	6.1		
BRG	e P	Z 16:51:15.9	84.7	95.4					
WET	e P	Z 16:51:19.0	85.2	94.4					
CLL	e P	Z 16:51:18.6	85.3	94.7					
NOTT	e P	Z 16:51:21.5	85.8	93.9					
MOX	e P	Z 16:51:23.0	86.2	93.6					
FUR	e P	Z 16:51:23.3	86.2	93.1					
GRA1	e P	Z 16:51:24.7	86.4	93.2	1.2	169	6.0		
CLZ	e P	Z 16:51:27.4	87.0	92.7	1.6	173	5.9		
BSEG	e P	Z 16:51:27.9	87.1	92.7					
NRDL	e P	Z 16:51:28.7	87.2	92.5					
STU	e P	Z 16:51:30.5	87.6	91.6					
TNS	e P	Z 16:51:33.5	88.2	91.1					
BFO	e P	Z 16:51:32.9	88.2	90.9					
IBBN	e P	Z 16:51:35.1	88.6	90.6					
BUG	e P	Z 16:51:36.5	88.9	90.2					
WLF	e P	Z 16:51:40.3	89.6	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	16:44:32.5	1.635N	95.384E	34.6	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:56:56.2	83.3	95.2	1.0	43	5.6		
BRG	e P	Z 16:56:55.9	83.3	95.6					
RUE	e P	Z 16:56:57.1	83.6	95.7					
WET	e P	Z 16:56:58.9	83.9	94.6					
	e pP	Z 16:57:08.9							
CLL	e P	Z 16:56:59.0	84.0	94.9					
NOTT	e P	Z 16:57:01.8	84.4	94.1					
	e pP	Z 16:57:12.0							
MOX	e P	Z 16:57:03.3	84.8	93.8					
FUR	e P	Z 16:57:03.5	84.9	93.3					
GRA1	e P	Z 16:57:04.8	85.0	93.4	0.9	42	5.7		
	e pP	Z 16:57:14.8							

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CLZ	e P	Z	16:57:07.7	85.6	92.9	1.0	24	5.3
BSEG	e P	Z	16:57:08.3	85.8	93.0			
NRDL	e P	Z	16:57:08.9	85.8	92.8			
STU	e P	Z	16:57:10.4	86.3	91.8			
TNS	e P	Z	16:57:13.5	86.8	91.3	0.9	22	5.3
	e pP	Z	16:57:23.9					
BFO	e P	Z	16:57:13.2	86.8	91.1	0.9	14	5.1
IBBN	e P	Z	16:57:15.7	87.3	90.9			
BUG	e P	Z	16:57:17.1	87.5	90.5			
WLF	e P	Z	16:57:21.2	88.3	89.5			
	e pP	Z	16:57:31.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	17:03:32.8	0.923N	95.986E	33.0N	4.8			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:16:00.9	84.2	95.2	0.8	6	4.8		
BRG	e P	Z	17:16:00.7	84.3	95.6					
WET	e P	Z	17:16:03.9	84.8	94.6					
CLL	e P	Z	17:16:04.3	84.9	94.9					
NOTT	e P	Z	17:16:06.8	85.3	94.1					
MOX	e P	Z	17:16:08.3	85.7	93.8					
GRA1	e P	Z	17:16:09.8	85.9	93.4	0.8	11	5.0		
CLZ	e P	Z	17:16:12.4	86.6	92.9	0.8	4	4.6		
BSEG	e P	Z	17:16:13.2	86.7	93.0					
TNS	e P	Z	17:16:18.4	87.7	91.3	0.8	6	5.0		
BFO	e P	Z	17:16:18.0	87.8	91.1	0.8	4	4.7		
IBBN	e P	Z	17:16:20.8	88.2	90.8					
BUG	e P	Z	17:16:22.0	88.5	90.4					
WLF	e P	Z	17:16:25.6	89.2	89.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	17:11:48.9	0.823N	96.725E	33.0N	4.8			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:24:20.0	84.8	94.7	0.9	10	5.0		
BRG	e P	Z	17:24:20.0	84.8	95.1					
WET	e P	Z	17:24:22.8	85.4	94.1					
CLL	e P	Z	17:24:22.8	85.4	94.4					
MOX	e P	Z	17:24:26.9	86.3	93.3					
GRA1	e P	Z	17:24:28.7	86.5	92.9	0.9	11	5.0		
CLZ	e P	Z	17:24:31.3	87.1	92.4	0.8	4	4.5		
BSEG	e P	Z	17:24:32.0	87.2	92.4					

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TNS	e P	Z	17:24:37.1	88.3	90.8	1.1	11	5.1
BFO	e P	Z	17:24:36.8	88.3	90.7	0.8	3	4.6
IBBN	e P	Z	17:24:39.2	88.7	90.3			
BUG	e P	Z	17:24:40.5	89.0	89.9			
WLF	e P	Z	17:24:44.5	89.7	89.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	17:23:35.2	3.892N	99.488E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:36:03.2	84.2	91.0					
GEC2	e P	Z 17:36:04.0	84.3	90.6	1.5	20	5.1		
RUE	e P	Z 17:36:04.5	84.3	91.0					
CLL	e P	Z 17:36:06.5	84.8	90.3					
WET	e P	Z 17:36:06.5	84.8	90.0					
MOX	e P	Z 17:36:10.2	85.6	89.2					
GRA1	e P	Z 17:36:12.3	85.9	88.8	1.0	4	4.5		
BSEG	e P	Z 17:36:13.9	86.4	88.4					
CLZ	e P	Z 17:36:15.0	86.4	88.3	0.9	7	4.7		
TNS	e P	Z 17:36:21.3	87.7	86.7					
IBBN	e P	Z 17:36:22.2	88.0	86.3					
BUG	e P	Z 17:36:23.7	88.3	85.8					
WLF	e P	Z 17:36:28.3	89.2	84.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	17:24:17.1	2.100N	97.735E	30.2	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:36:46.4	84.5	93.5					
GEC2	e P	Z 17:36:46.8	84.5	93.1	0.9	18	5.3		
RUE	e P	Z 17:36:47.6	84.7	93.5					
WET	e P	Z 17:36:49.5	85.0	92.5					
CLL	e P	Z 17:36:49.0	85.1	92.8					
MOX	e P	Z 17:36:53.7	85.9	91.7					
FUR	e P	Z 17:36:54.8	86.1	91.2					
GRA1	e P	Z 17:36:55.2	86.1	91.3	1.0	25	5.3		
	e pP	Z 17:37:04.0							
CLZ	e P	Z 17:36:57.8	86.7	90.8	0.9	11	5.0		
BSEG	e P	Z 17:36:58.4	86.8	90.9					
TNS	e P	Z 17:37:03.9	87.9	89.2					
BFO	e P	Z 17:37:03.8	88.0	89.0	0.8	4	4.8		
IBBN	e P	Z 17:37:05.2	88.3	88.7					
BUG	e P	Z 17:37:07.2	88.6	88.3					

WLF e P Z 17:37:11.2 89.4 87.4

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/28 17:59:51.9 1.291N 97.113E 33.0N 5.5
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 18:12:22.1	84.7	94.5					
GEC2	e P	Z 18:12:22.3	84.7	94.1	1.1	36	5.5		
RUE	e P	Z 18:12:23.3	84.9	94.5					
WET	e P	Z 18:12:25.2	85.3	93.5					
CLL	e P	Z 18:12:25.2	85.3	93.8					
MOX	e P	Z 18:12:29.5	86.1	92.7					
FUR	e P	Z 18:12:30.3	86.3	92.2					
GRA1	e P	Z 18:12:31.1	86.4	92.3	0.9	33	5.4		
CLZ	e P	Z 18:12:33.7	87.0	91.8	1.2	42	5.4		
BSEG	e P	Z 18:12:34.1	87.1	91.8					
STU	e P	Z 18:12:36.6	87.7	90.7					
TNS	e P	Z 18:12:39.6	88.2	90.2	1.1	37	5.6		
BFO	e P	Z 18:12:39.3	88.2	90.1					
IBBN	e P	Z 18:12:41.4	88.6	89.7					
WLF	e P	Z 18:12:46.9	89.6	88.4					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/28 18:30:46.6 1.029N 97.466E 33.0N 6.4
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 18:43:19.4	85.1	94.4					
GEC2	e P	Z 18:43:19.5	85.1	94.0	1.3	419	6.5		
RUE	e P	Z 18:43:20.4	85.3	94.4					
WET	e P	Z 18:43:22.1	85.7	93.4					
CLL	e P	Z 18:43:21.9	85.7	93.7					
MOX	e P	Z 18:43:26.4	86.6	92.6					
FUR	e P	Z 18:43:26.8	86.7	92.2					
GRA1	e P	Z 18:43:27.9	86.8	92.2	1.1	259	6.3		
CLZ	e P	Z 18:43:30.5	87.4	91.7	1.5	434	6.4		
BSEG	e P	Z 18:43:30.9	87.5	91.7					
STU	e P	Z 18:43:33.7	88.1	90.6					
TNS	e P	Z 18:43:36.6	88.6	90.1					
BFO	e P	Z 18:43:36.2	88.7	90.0	1.8	252	6.2		
IBBN	e P	Z 18:43:38.0	89.0	89.6					
BUG	e P	Z 18:43:39.6	89.3	89.2					
WLF	e P	Z 18:43:43.7	90.1	88.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	18:48:51.2	2.021N	95.840E	33.0N	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:01:14.9	83.3	94.6	1.0	38	5.6		
BRG	e P	Z 19:01:14.7	83.3	95.0					
RUE	e P	Z 19:01:15.7	83.6	95.1					
WET	e P	Z 19:01:17.6	83.9	94.0					
CLL	e P	Z 19:01:17.4	83.9	94.3					
GRA1	e P	Z 19:01:23.6	85.0	92.8	1.0	44	5.7		
CLZ	e P	Z 19:01:26.3	85.6	92.3	0.9	23	5.3		
BSEG	e P	Z 19:01:26.9	85.7	92.4					
STU	e P	Z 19:01:29.3	86.3	91.2					
TNS	e P	Z 19:01:32.2	86.8	90.7					
BFO	e P	Z 19:01:31.9	86.8	90.5	0.9	15	5.1		
IBBN	e P	Z 19:01:34.4	87.2	90.3					
BUG	e P	Z 19:01:35.8	87.5	89.9					
WLF	e P	Z 19:01:39.8	88.3	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	19:02:24.8	0.922N	96.510E	33.0N	5.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:14:54.5	84.6	94.8	1.3	185	6.1		
BRG	e P	Z 19:14:54.4	84.6	95.2					
RUE	e P	Z 19:14:55.9	84.8	95.2					
WET	e P	Z 19:14:57.3	85.1	94.2					
CLL	e P	Z 19:14:57.2	85.2	94.5					
MOX	e P	Z 19:15:01.7	86.1	93.4					
FUR	e P	Z 19:15:02.0	86.1	92.9					
GRA1	e P	Z 19:15:03.4	86.2	93.0	1.2	109	5.9		
CLZ	e P	Z 19:15:05.9	86.9	92.5	1.5	181	6.0		
BSEG	e P	Z 19:15:06.4	87.0	92.5					
STU	e P	Z 19:15:09.0	87.5	91.4					
TNS	e P	Z 19:15:11.8	88.1	90.9					
BFO	e P	Z 19:15:11.5	88.1	90.7	1.3	48	5.7		
IBBN	e P	Z 19:15:13.8	88.5	90.4					
BUG	e P	Z 19:15:15.2	88.8	90.0					
WLF	e P	Z 19:15:19.0	89.5	89.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2005/03/28 20:06:28.5 0.999N 97.099E 33.0N 4.8 SZGRF
Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:19:00.1	84.9	94.3	1.0	7	4.9		
BRG	e P	Z 20:19:00.0	84.9	94.7					
RUE	e P	Z 20:19:01.2	85.1	94.7					
WET	e P	Z 20:19:02.6	85.5	93.7					
CLL	e P	Z 20:19:02.6	85.5	94.0					
GRA1	e P	Z 20:19:08.8	86.6	92.5	0.9	8	4.8		
CLZ	e P	Z 20:19:10.9	87.2	92.0	0.8	4	4.7		
BSEG	e P	Z 20:19:11.9	87.3	92.0					
TNS	e P	Z 20:19:17.2	88.4	90.4					
IBBN	e P	Z 20:19:19.3	88.8	89.9					
BUG	e P	Z 20:19:20.5	89.1	89.5					
WLF	e P	Z 20:19:24.0	89.9	88.6					

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/28 20:19: 7.7 4.328N 92.577E 33.0N 4.7 SZGRF
Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:31:11.5	79.4	95.6	0.8	10	4.9		
BRG	e P	Z 20:31:11.4	79.5	96.1					
RUE	e P	Z 20:31:12.8	79.8	96.3					
WET	e P	Z 20:31:14.6	80.0	95.0					
CLL	e P	Z 20:31:14.5	80.1	95.5					
MOX	e P	Z 20:31:19.4	80.9	94.3					
GRA1	e P	Z 20:31:20.8	81.1	93.8	1.0	7	4.6		
CLZ	e P	Z 20:31:23.9	81.8	93.5	0.8	5	4.7		
BSEG	e P	Z 20:31:24.9	81.9	93.7					
TNS	e P	Z 20:31:30.0	82.9	91.7					
BFO	e P	Z 20:31:29.8	82.9	91.4	0.8	3	4.5		
IBBN	e P	Z 20:31:32.3	83.4	91.4					
BUG	e P	Z 20:31:34.1	83.7	91.0					

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/28 20:23:25.0 0.964N 97.390E 33.0N 4.8 SZGRF
Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 20:35:57.6	85.1	94.5					
GEC2	e P	Z 20:35:57.6	85.1	94.1	1.0	9	5.0		
RUE	e P	Z 20:35:58.6	85.3	94.5					
WET	e P	Z 20:36:00.6	85.7	93.5					

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CLL	e P	Z	20:36:00.8	85.7	93.8				
MOX	e P	Z	20:36:04.9	86.6	92.7				
GRA1	e P	Z	20:36:06.3	86.8	92.3	0.8	7	4.8	
CLZ	e P	Z	20:36:08.9	87.4	91.8	0.9	7	4.8	
BSEG	e P	Z	20:36:09.4	87.5	91.8				
STU	e P	Z	20:36:12.2	88.1	90.7				
TNS	e P	Z	20:36:14.9	88.6	90.2				
BFO	e P	Z	20:36:14.7	88.7	90.1	0.7	3	4.6	
IBBN	e P	Z	20:36:16.7	89.0	89.7				
BUG	e P	Z	20:36:18.1	89.3	89.3				

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/28 20:35:18.9 1.696N 96.900E 33.0N 5.1
 Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:47:47.5	84.2	94.4					
GEC2	e P	Z	20:47:47.5	84.2	94.0	1.1	22	5.3		
RUE	e P	Z	20:47:48.5	84.5	94.4					
WET	e P	Z	20:47:50.3	84.8	93.4					
CLL	e P	Z	20:47:50.2	84.9	93.7					
MOX	e P	Z	20:47:54.5	85.7	92.6					
GRA1	e P	Z	20:47:56.0	85.9	92.2	1.1	21	5.2		
CLZ	e P	Z	20:47:58.8	86.5	91.7	1.1	14	5.0		
BSEG	e P	Z	20:47:59.3	86.6	91.8					
STU	e P	Z	20:48:02.0	87.2	90.6					
TNS	e P	Z	20:48:04.7	87.7	90.1					
BFO	e P	Z	20:48:04.8	87.8	89.9	0.9	6	4.9		
IBBN	e P	Z	20:48:06.5	88.1	89.6					
BUG	e P	Z	20:48:08.1	88.4	89.2					
WLF	e P	Z	20:48:12.2	89.2	88.3					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/28 21:34:16.1 2.222N 97.108E 33.0N 4.7
 Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	21:46:43.0	84.0	93.9					
GEC2	e P	Z	21:46:43.3	84.0	93.5	0.9	6	4.8		
RUE	e P	Z	21:46:43.9	84.2	93.9					
WET	e P	Z	21:46:45.8	84.5	92.9					
CLL	e P	Z	21:46:46.0	84.6	93.2					
MOX	e P	Z	21:46:50.4	85.4	92.1					
GRA1	e P	Z	21:46:51.8	85.6	91.7	0.7	5	4.7		
CLZ	e P	Z	21:46:54.9	86.2	91.2	0.7	4	4.6		

STU	e P	Z	21:46:57.8	87.0	90.1
IBBN	e P	Z	21:47:02.2	87.8	89.2
BUG	e P	Z	21:47:04.0	88.2	88.7
WLF	e P	Z	21:47:07.7	88.9	87.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	22:41:18.7	0.642N	97.009E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 22:53:51.4	85.1	95.0					
RUE	e P	Z 22:53:52.2	85.4	95.0					
WET	e P	Z 22:53:54.0	85.7	94.0					
CLL	e P	Z 22:53:53.9	85.8	94.3					
MOX	e P	Z 22:53:58.3	86.6	93.2					
FUR	e P	Z 22:53:58.6	86.7	92.8					
GRA1	e P	Z 22:54:00.0	86.8	92.8	0.8	8	4.8		
CLZ	e P	Z 22:54:02.6	87.4	92.2	0.8	6	4.8		
BSEG	e P	Z 22:54:03.2	87.5	92.3					
IBBN	e P	Z 22:54:10.3	89.0	90.2					
BUG	e P	Z 22:54:11.5	89.3	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	23:13: 3.0	0.243S	95.796E	42.7	5.6			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 23:25:35.6	85.1	96.5					
RUE	e P	Z 23:25:36.9	85.3	96.5					
WET	e P	Z 23:25:38.0	85.6	95.5					
CLL	e P	Z 23:25:38.2	85.7	95.8					
MOX	e P	Z 23:25:42.6	86.5	94.7					
FUR	e P	Z 23:25:42.7	86.5	94.2					
GRA1	e P	Z 23:25:43.8	86.7	94.3	1.1	79	5.7		
	e pP	Z 23:25:55.5							
	e sP	Z 23:26:02.1							
CLZ	e P	Z 23:25:46.9	87.4	93.8	1.4	93	5.7		
BSEG	e P	Z 23:25:47.6	87.5	93.8					
STU	e P	Z 23:25:49.6	87.9	92.7					
TNS	e P	Z 23:25:52.4	88.5	92.2					
BFO	e P	Z 23:25:52.0	88.5	92.1	1.0	24	5.5		
IBBN	e P	Z 23:25:54.6	89.0	91.7					
WLF	e P	Z 23:25:59.7	90.0	90.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/28	23:37:25.7	1.180N	96.291E	33.0N	5.5			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 23:49:54.2	84.3	95.2					
RUE	e P	Z 23:49:55.9	84.5	95.2					
WET	e P	Z 23:49:56.8	84.8	94.2					
CLL	e P	Z 23:49:56.9	84.9	94.5					
MOX	e P	Z 23:50:01.8	85.7	93.4					
FUR	e P	Z 23:50:02.0	85.8	92.9					
GRA1	e P	Z 23:50:02.7	85.9	93.0	2.0	143	5.8		
CLZ	e P	Z 23:50:06.0	86.6	92.5	2.0	78	5.5		
BSEG	e P	Z 23:50:06.1	86.7	92.6					
STU	e P	Z 23:50:09.3	87.2	91.4					
TNS	e P	Z 23:50:11.4	87.7	90.9	1.2	28	5.5		
BFO	e P	Z 23:50:11.2	87.8	90.7	0.9	13	5.3		
IBBN	e P	Z 23:50:13.6	88.2	90.4					
BUG	e P	Z 23:50:15.1	88.5	90.0					
WLF	e P	Z 23:50:19.0	89.2	89.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	00:55:59.4	0.807N	96.989E	23.8	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 01:08:42.7	86.6	92.7	0.9	8	4.9		
	e pP	Z 01:08:49.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	01:01:10.4	2.185N	97.270E	33.0N	4.4			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:13:46.7	85.8	91.6	1.1	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	02:22:52.0	3.440N	97.220E	24.7	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:35:16.2	83.1	93.0					

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GEC2	e P	Z	02:35:16.4	83.1	92.6	1.1	23	5.3
WET	e P	Z	02:35:19.0	83.7	92.0	1.1	14	5.1
CLL	e P	Z	02:35:18.9	83.7	92.4			
MOX	e P	Z	02:35:23.5	84.6	91.2			
FUR	e P	Z	02:35:24.3	84.7	90.7			
GRA1	e P	Z	02:35:24.8	84.8	90.8	1.1	21	5.3
	e pP	Z	02:35:32.0					
CLZ	e P	Z	02:35:27.6	85.3	90.4	1.6	27	5.2
TNS	e P	Z	02:35:33.4	86.6	88.7			
BFO	e P	Z	02:35:34.2	86.7	88.5	1.6	17	4.9
IBBN	e P	Z	02:35:35.5	87.0	88.3			
BUG	e P	Z	02:35:36.8	87.3	87.9			
WLF	e P	Z	02:35:40.8	88.1	87.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	03:29:14.7	1.174N	95.252E	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 03:41:48.4	85.2	93.8	1.2	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	04:09:19.3	2.040N	96.220E	30.6	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:21:43.8	83.5	94.3	1.1	31	5.4		
BRG	e P	Z 04:21:43.6	83.5	94.7					
WET	e P	Z 04:21:46.4	84.1	93.7	1.1	17	5.2		
CLL	e P	Z 04:21:46.3	84.2	94.0					
MOX	e P	Z 04:21:50.8	85.0	92.9					
GRA1	e P	Z 04:21:52.3	85.2	92.5	1.2	35	5.5		
	e pP	Z 04:22:01.1							
CLZ	e P	Z 04:21:55.0	85.8	92.0	1.0	12	5.0		
BSEG	e P	Z 04:21:55.6	85.9	92.1					
TNS	e P	Z 04:22:00.9	87.0	90.4					
BFO	e P	Z 04:22:00.5	87.1	90.2	1.0	6	4.7		
IBBN	e P	Z 04:22:03.0	87.4	90.0					
BUG	e P	Z 04:22:04.4	87.8	89.5					
WLF	e P	Z 04:22:08.4	88.5	88.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	04:19: 5.1	1.520N	96.260E	23.7	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	04:31:34.1	84.0	94.6	1.5	41	5.4		
BRG	e P	Z	04:31:34.0	84.0	95.0					
WET	e P	Z	04:31:36.8	84.5	94.0	1.0	12	5.1		
CLL	e P	Z	04:31:36.7	84.6	94.3					
MOX	e P	Z	04:31:41.6	85.4	93.2					
GRA1	e P	Z	04:31:42.6	85.6	92.8	1.6	57	5.4		
	e pP	Z	04:31:49.5							
CLZ	e P	Z	04:31:45.4	86.3	92.3	0.8	8	4.9		
BSEG	e P	Z	04:31:46.0	86.4	92.4					
TNS	e P	Z	04:31:51.3	87.4	90.7					
BFO	e P	Z	04:31:50.8	87.5	90.5	1.2	8	4.7		
IBBN	e P	Z	04:31:53.3	87.9	90.3					
BUG	e P	Z	04:31:54.6	88.2	89.8					
WLF	e P	Z	04:31:58.6	88.9	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	04:50:14.6	1.020N	96.070E	38.4	5.4			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:02:42.6	84.2	95.1	1.6	56	5.5		
BRG	e P	Z	05:02:42.5	84.2	95.5					
WET	e P	Z	05:02:45.2	84.8	94.5	1.7	37	5.3		
CLL	e P	Z	05:02:45.2	84.9	94.8					
GRA1	e P	Z	05:02:51.0	85.9	93.3	1.8	75	5.5		
	e pP	Z	05:03:02.1							
CLZ	e P	Z	05:02:53.9	86.5	92.8	1.8	57	5.4		
BSEG	e P	Z	05:02:54.5	86.7	92.8					
TNS	e P	Z	05:02:59.6	87.7	91.2					
BFO	e P	Z	05:02:59.1	87.7	91.0	1.6	22	5.2		
IBBN	e P	Z	05:03:01.6	88.2	90.7					
BUG	e P	Z	05:03:03.4	88.5	90.3					
WLF	e P	Z	05:03:06.7	89.2	89.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	05:14:25.4	5.274N	94.846E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:26:41.7	81.9	91.4	1.3	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	05:16:26.2	1.450N	96.370E	33.0N	5.6	5.5		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:28:54.3	84.1	94.6	1.4	108	5.9		
BRG	e P	Z	05:28:54.0	84.1	95.0					
WET	e P	Z	05:28:57.0	84.6	94.0	1.3	53	5.6		
CLL	e P	Z	05:28:56.8	84.7	94.3					
MOX	e P	Z	05:29:01.4	85.6	93.1					
FUR	e P	Z	05:29:01.6	85.6	92.7					
GRA1	e P	Z	05:29:02.9	85.8	92.8	1.2	80	5.8		
	e S	N	05:39:33.9							
	e L	Z	06:13:08.3			21.0	2296		5.5	
CLZ	e P	Z	05:29:05.6	86.4	92.3	1.2	49	5.6		
STU	e P	Z	05:29:08.8	87.0	91.2					
TNS	e P	Z	05:29:11.6	87.6	90.7					
BFO	e P	Z	05:29:11.3	87.6	90.5	1.1	30	5.3		
IBBN	e P	Z	05:29:13.6	88.0	90.2					
BUG	e P	Z	05:29:15.0	88.3	89.8					
WLF	e P	Z	05:29:19.2	89.0	88.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	05:23:47.5	1.884S	98.182E	33.0N	4.7			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:36:41.6	89.5	93.5	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	05:35:42.4	0.473S	97.036E	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	05:48:27.9	87.7	93.5	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	06:16:21.0	2.350N	98.020E	33.0N	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:28:50.6	84.4	93.1					

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GEC2	e P	Z	06:28:50.9	84.5	92.7	1.3	17	5.1
WET	e P	Z	06:28:53.6	85.0	92.1	1.1	6	4.8
CLL	e P	Z	06:28:53.2	85.1	92.4			
MOX	e P	Z	06:28:57.8	85.9	91.3			
GRA1	e P	Z	06:28:59.4	86.1	90.9	1.4	26	5.2
CLZ	e P	Z	06:29:01.8	86.7	90.4	1.4	36	5.3
TNS	e P	Z	06:29:07.8	87.9	88.8			
BFO	e P	Z	06:29:07.7	88.0	88.7	1.6	17	5.1
IBBN	e P	Z	06:29:09.5	88.3	88.4			
BUG	e P	Z	06:29:11.0	88.6	87.9			
WLF	e P	Z	06:29:15.1	89.4	87.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	09:42:45.2	1.336S	98.462E	33.0N	4.7			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:55:38.1	89.2	93.0	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	10:56:55.3	1.280N	94.850E	31.7	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 11:09:19.6	83.2	95.8	1.1	17	5.2		
BRG	e P	Z 11:09:19.4	83.3	96.3					
WET	e P	Z 11:09:22.3	83.8	95.3	1.0	10	5.0		
CLL	e P	Z 11:09:23.1	83.9	95.6					
MOX	e P	Z 11:09:27.1	84.7	94.4					
GRA1	e P	Z 11:09:28.2	84.9	94.0	0.8	12	5.2		
	e pP	Z 11:09:37.4							
CLZ	e P	Z 11:09:31.4	85.6	93.6	0.9	12	5.0		
BSEG	e P	Z 11:09:32.3	85.7	93.7					
TNS	e P	Z 11:09:36.8	86.7	91.9					
BFO	e P	Z 11:09:37.1	86.7	91.7	0.8	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	12:55:55.2	4.500N	94.500E	26.6	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:08:06.2	80.6	94.5					
GEC2	e P	Z 13:08:06.4	80.6	94.0	1.1	28	5.2		

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WET	e P	Z	13:08:09.3	81.1	93.4	1.1	14	4.9
CLL	e P	Z	13:08:09.1	81.2	93.8			
MOX	e P	Z	13:08:14.1	82.0	92.6			
GRA1	e P	Z	13:08:15.1	82.2	92.2	1.0	22	5.2
	e pP	Z	13:08:23.6					
CLZ	e P	Z	13:08:18.4	82.8	91.8	1.1	19	5.2
TNS	e P	Z	13:08:24.6	84.0	90.1			
BFO	e P	Z	13:08:24.6	84.1	89.9	1.1	11	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	14:16: 7.3	2.403N	95.908E	26.0	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 14:28:30.8	83.1	94.3	1.3	40	5.5		
BRG	e P	Z 14:28:30.6	83.1	94.7					
WET	e P	Z 14:28:33.5	83.6	93.7	1.3	23	5.2		
CLL	e P	Z 14:28:33.4	83.7	94.0					
MOX	e P	Z 14:28:38.0	84.5	92.9					
FUR	e P	Z 14:28:37.9	84.6	92.4					
GRA1	e P	Z 14:28:39.4	84.7	92.5	1.2	29	5.4		
	e pP	Z 14:28:46.9							
CLZ	e P	Z 14:28:42.2	85.4	92.0	1.2	18	5.2		
BFO	e P	Z 14:28:47.5	86.6	90.2	0.8	10	5.0		
IBBN	e P	Z 14:28:50.2	87.0	90.0					
BUG	e P	Z 14:28:51.6	87.3	89.6					
WLF	e P	Z 14:28:55.8	88.0	88.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	15:33: 4.0	3.241N	94.946E	33.0N	4.7			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:45:28.7	83.5	92.7	1.3	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	16:21:14.0							SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:33:53.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	17:00: 9.6	48.500N	153.500E	33.0N	5.4	4.9		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 17:11:39.1	73.0	24.5	0.7	11	5.1		
RUE	e P	Z 17:11:41.3	73.4	26.6	1.1	48	5.4		
CLL	e P	Z 17:11:48.2	74.6	25.9	0.9	54	5.6		
BRG	e P	Z 17:11:49.1	74.8	26.5	1.0	21	5.1		
CLZ	e P	Z 17:11:50.3	74.8	24.3	1.1	39	5.4		
IBBN	e P	Z 17:11:51.0	75.1	22.7	1.2	46	5.4		
MOX	e P	Z 17:11:54.2	75.6	25.0	1.0	25	5.3		
BUG	e P	Z 17:11:56.1	76.0	22.3	1.1	32	5.4		
GRA1	e P	Z 17:12:00.2	76.6	24.6	0.9	68	5.8		
	e L	Z 17:49:40.8			20.0	552		4.9	
WET	e P	Z 17:12:00.3	76.6	25.6	1.0	40	5.5		
GEC2	e P	Z 17:12:00.0	76.7	26.1	0.9	20	5.2		
TNS	e P	Z 17:12:01.1	76.8	22.9	0.9	29	5.4		
FUR	e P	Z 17:12:07.6	78.0	24.5	0.9	54	5.7		
STU	e P	Z 17:12:07.4	78.0	23.3	1.2	41	5.4		
BFO	e P	Z 17:12:10.8	78.6	22.7	1.0	34	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	18:06:46.5	3.221N	94.683E	33.0N	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:19:10.5	83.3	92.9	1.4	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	18:29:46.4	0.089N	97.870E	13.8	4.9			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:42:32.5	87.8	92.5	1.1	7	4.9		
	e pP	Z 18:42:36.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/29	20:41:44.0	2.940N	96.280E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	20:54:05.9	82.9	94.1				
GEC2	e P	Z	20:54:06.3	82.9	93.7	1.2	17	5.2	
WET	e P	Z	20:54:09.0	83.5	93.1	0.9	6	4.8	
GUNZ	e P	Z	20:54:11.0	83.9	92.8				
WERD	e P	Z	20:54:11.0	83.9	92.8				
NOTT	e P	Z	20:54:11.8	84.0	92.6				
MOX	e P	Z	20:54:13.2	84.3	92.3				
FUR	e P	Z	20:54:13.6	84.5	91.8				
GRA1	e P	Z	20:54:14.8	84.6	91.9	0.9	11	5.1	
CLZ	e P	Z	20:54:17.4	85.2	91.4	1.2	16	5.1	
NRDL	e P	Z	20:54:18.6	85.3	91.2				
TNS	e P	Z	20:54:23.5	86.4	89.8				
BFO	e P	Z	20:54:23.7	86.4	89.6	1.1	5	4.6	
BUG	e P	Z	20:54:26.8	87.1	88.9				
WLF	e P	Z	20:54:31.0	87.8	88.0				

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/30 01:13:13.8 0.710N 96.580E 29.7 5.4 5.3
 Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	01:25:45.8	84.8	94.9	1.3	61	5.7		
BRG	e P	Z	01:25:45.6	84.8	95.3					
WET	e P	Z	01:25:48.4	85.3	94.3	1.2	34	5.4		
CLL	e P	Z	01:25:48.4	85.4	94.6					
MOX	e P	Z	01:25:52.6	86.3	93.4					
FUR	e P	Z	01:25:53.0	86.3	93.0					
GRA1	e P	Z	01:25:54.3	86.5	93.1	1.3	52	5.5		
	e pP	Z	01:26:02.9							
	e S	N	01:36:29.1							
	e SS	N	01:42:10.3							
	e L	Z	02:11:55.0			20.1	1312		5.3	
CLZ	e P	Z	01:25:57.0	87.1	92.5	1.2	29	5.3		
STU	e P	Z	01:26:00.3	87.7	91.5					
TNS	e P	Z	01:26:02.9	88.3	91.0					
BFO	e P	Z	01:26:02.6	88.3	90.8	0.8	10	5.2		
IBBN	e P	Z	01:26:05.0	88.7	90.5					
BUG	e P	Z	01:26:06.4	89.0	90.1					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/30 10:20:19.6 0.450N 96.130E 29.4 5.1
 Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:32:51.3	84.7	95.4	1.2	19	5.2		

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BRG	e P	Z	10:32:51.2	84.7	95.8				
WET	e P	Z	10:32:54.0	85.3	94.8	1.1	14	5.1	
CLL	e P	Z	10:32:53.8	85.4	95.1				
MOX	e P	Z	10:32:58.4	86.2	94.0				
FUR	e P	Z	10:32:58.5	86.2	93.5				
GRA1	e P	Z	10:32:59.9	86.4	93.6	0.9	20	5.3	
	e pP	Z	10:33:08.5						
	e S	N	10:43:34.2						
CLZ	e P	Z	10:33:02.6	87.0	93.1	0.9	11	5.0	
STU	e P	Z	10:33:05.6	87.6	92.0				
TNS	e P	Z	10:33:08.5	88.2	91.5				
BFO	e P	Z	10:33:08.1	88.2	91.3	1.3	12	5.1	
IBBN	e P	Z	10:33:10.6	88.6	91.0				
BUG	e P	Z	10:33:12.0	88.9	90.6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/30	12:00:34.0	10.200S	161.300E	78.0N				NEIR-M

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:19:41.2	133.4	42.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/30	12:24:33.8	3.924N	95.225E	33.0N	4.7	4.5		SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:36:56.7	83.1	92.0	0.9	5	4.7		
	e L	Z 13:19:40.2			22.0	248		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/30	12:57:45.1	0.100S	96.970E	19.4	5.2			SZGRF

Southwest of Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 13:10:23.0	85.7	95.1	1.5	48	5.4		
BRG	e P	Z 13:10:22.9	85.7	95.5					
WET	e P	Z 13:10:25.6	86.2	94.5	1.4	23	5.1		
CLL	e P	Z 13:10:25.5	86.3	94.8					
MOX	e P	Z 13:10:30.1	87.1	93.7					
FUR	e P	Z 13:10:30.1	87.2	93.3					
GRA1	e P	Z 13:10:31.4	87.3	93.3	0.8	17	5.2		
	e pP	Z 13:10:37.0							

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GEC2	e P	Z	16:32:01.2	83.0	94.8	2.0	433	6.3		
BRG	e P	Z	16:32:01.0	83.0	95.2					
WET	e P	Z	16:32:04.0	83.6	94.2	1.4	127	6.0		
CLL	e P	Z	16:32:03.8	83.7	94.5					
MOX	e P	Z	16:32:08.5	84.5	93.4					
FUR	e P	Z	16:32:08.8	84.6	92.9					
GRA1	e P	Z	16:32:10.0	84.7	93.0	1.4	210	6.2		
	e pP	Z	16:32:28.6							
	e S	N	16:42:33.6							
	e SSS	N	16:51:36.4							
	e L	Z	17:16:45.0			19.9	11245	6.3		
CLZ	e P	Z	16:32:12.7	85.3	92.5	1.2	81	5.8		
STU	e P	Z	16:32:16.0	86.0	91.4					
TNS	e P	Z	16:32:18.8	86.5	90.9					
BFO	e P	Z	16:32:18.5	86.5	90.7	1.1	48	5.5		
IBBN	e P	Z	16:32:20.9	87.0	90.5					
BUG	e P	Z	16:32:22.3	87.3	90.0					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/30 17:29:19.3 2.280N 95.430E 25.9 5.6
 Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:41:42.1	82.8	94.7	1.2	72	5.8		
BRG	e P	Z	17:41:41.9	82.9	95.2					
WET	e P	Z	17:41:44.9	83.4	94.2	1.1	31	5.4		
CLL	e P	Z	17:41:44.6	83.5	94.5					
MOX	e P	Z	17:41:49.4	84.3	93.3					
FUR	e P	Z	17:41:49.6	84.4	92.8					
GRA1	e P	Z	17:41:50.9	84.5	92.9	1.1	73	5.8		
	e pP	Z	17:41:58.4							
CLZ	e P	Z	17:41:53.6	85.2	92.5	1.2	53	5.6		
STU	e P	Z	17:41:56.8	85.8	91.3					
TNS	e P	Z	17:41:59.6	86.3	90.9					
BFO	e P	Z	17:41:59.4	86.4	90.6	0.9	17	5.2		
IBBN	e P	Z	17:42:01.8	86.8	90.4					
BUG	e P	Z	17:42:03.1	87.1	90.0					

Date Origin Time Lat Long Depth mb Ms ML Source
 2005/03/30 17:41:58.3 22.240S 178.000W 597.5
 South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	18:00:33.7	147.7	14.5					
	e PKPbc	Z	18:00:37.5							

	e PKPab	Z	18:00:40.9		
	e PP	Z	18:04:04.2		
RUE	e PKPdf	Z	18:00:34.2	148.4	21.2
	e PKPbc	Z	18:00:39.1		
	e PKPab	Z	18:00:43.7		
	e PP	Z	18:04:10.8		
IBBN	e PKPdf	Z	18:00:36.6	149.6	10.6
	e PKPbc	Z	18:00:42.2		
CLZ	e PKPdf	Z	18:00:36.4	149.7	15.5
	e PKPbc	Z	18:00:42.7		
	e PKPab	Z	18:00:49.5		
CLL	e PKPdf	Z	18:00:35.8	149.7	20.5
	e PKPbc	Z	18:00:42.3		
	e PKPab	Z	18:00:48.6		
BRG	e PKPdf	Z	18:00:36.2	149.9	22.4
	e PKPbc	Z	18:00:42.7		
	e PKPab	Z	18:00:49.7		
BUG	e PKPdf	Z	18:00:37.6	150.5	9.9
	e PKPbc	Z	18:00:44.1		
	e PKPab	Z	18:00:52.5		
MOX	e PKPdf	Z	18:00:37.4	150.6	18.4
	e PKPbc	Z	18:00:44.2		
	e PKPab	Z	18:00:52.7		
TNS	e PKPdf	Z	18:00:39.1	151.6	12.6
	e PKPbc	Z	18:00:46.8		
	e PKPab	Z	18:00:57.1		
GRA1	e PKPdf	Z	18:00:39.1	151.6	18.2
	e PKPbc	Z	18:00:46.7		
	e PKPab	Z	18:00:57.6		
	e pPKPbc	Z	18:03:03.9		
	e PP	Z	18:04:27.1		
WET	e PKPdf	Z	18:00:39.0	151.7	21.7
	e PKPbc	Z	18:00:46.6		
	e PKPab	Z	18:00:57.9		
GEC2	e PKPdf	Z	18:00:38.9	151.8	23.4
	e PKPbc	Z	18:00:46.5		
	e PKPab	Z	18:00:57.8		
WLF	e PKPdf	Z	18:00:40.8	152.4	8.3
	e PKPbc	Z	18:00:49.2		
	e PKPab	Z	18:01:01.1		
STU	e PKPdf	Z	18:00:41.0	152.9	14.7
	e PKPbc	Z	18:00:49.3		
	e PKPab	Z	18:01:02.4		
FUR	e PKPdf	Z	18:00:41.1	153.0	19.2
	e PKPbc	Z	18:00:49.4		
	e PKPab	Z	18:01:03.4		
BFO	e PKPdf	Z	18:00:41.7	153.4	13.2
	e PKPbc	Z	18:00:50.2		
	e PKPab	Z	18:01:04.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2005/03/30												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e (P)	Z 18:14:46.6									
2005/03/30												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e PKP	Z 23:24:42.8									
		e	23:24:49.3									
2005/03/30	23:16:50.1	2.048N	96.079E	33.0N	5.3							
Northern Sumatera, Indonesia												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 23:29:23.2	85.1	92.6	0.8	15	5.3				
2005/03/30	23:25: 8.9	0.606N	98.480E	27.2	5.2							
Northern Sumatera, Indonesia												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 23:37:55.0	87.8	91.7	0.9	10	5.2				
		e pP	Z 23:38:02.9									
2005/03/30	23:40:48.4	0.939N	96.365E	26.6	5.2							
Off west coast of northern Sumatera, Indonesia												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	BRG	e P	Z 23:53:17.8	84.5	95.3							
	RUE	e P	Z 23:53:19.0	84.7	95.3							
	WET	e P	Z 23:53:20.5	85.0	94.3	0.9	14	5.2				
	CLL	e P	Z 23:53:20.4	85.1	94.6							
	GUNZ	e P	Z 23:53:22.9	85.5	94.0							

WERD	e P	Z	23:53:22.8	85.5	94.0						
NOTT	e P	Z	23:53:23.5	85.6	93.8						
MOX	e P	Z	23:53:25.2	85.9	93.5						
FUR	e P	Z	23:53:25.5	86.0	93.0						
GRA1	e P	Z	23:53:26.6	86.1	93.1	1.2	31	5.3			
CLZ	e P	Z	23:53:29.3	86.8	92.6	1.3	18	5.1			
	e pP	Z	23:53:37.0								
BSEG	e P	Z	23:53:30.0	86.9	92.6						
STU	e P	Z	23:53:32.3	87.4	91.5						
TNS	e P	Z	23:53:34.9	87.9	91.0						
BFO	e P	Z	23:53:34.9	88.0	90.8	1.2	14	5.2			
IBBN	e P	Z	23:53:37.2	88.4	90.5						
BUG	e P	Z	23:53:38.6	88.7	90.1						
WLF	e P	Z	23:53:42.4	89.4	89.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	00:19:57.9	5.303N	97.035E	33.0N	4.6			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:32:21.5	83.3	89.7	0.9	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	01:17:28.8	0.215S	98.651	33.0N	4.8			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:30:18.3	88.5	105.6	0.8	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	01:39:0.1	19.840S	179.200E	10.0N				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 01:58:35.7	144.9	18.4					
RUE	e PKPbc	Z 01:58:37.7	145.5	24.7					
NRDL	e PKPbc	Z 01:58:39.6	146.3	18.7					
CLL	e PKPbc	Z 01:58:40.7	146.7	24.1					
CLZ	e PKPbc	Z 01:58:41.9	146.8	19.5					
	e PP	Z 02:02:05.8							
IBBN	e PKPbc	Z 01:58:42.0	146.9	14.8					
BRG	e PKPbc	Z 01:58:41.2	146.9	26.0					
MOX	e PKPbc	Z 01:58:44.2	147.7	22.2					

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WERD	e PKPbc	Z	01:58:44.2	147.7	23.5
	e PP	Z	02:02:12.2		
GUNZ	e PKPbc	Z	01:58:45.0	147.8	23.6
	e PP	Z	02:02:13.9		
BUG	e PKPbc	Z	01:58:44.7	147.8	14.3
UBBA	e PKPbc	Z	01:58:44.7	147.9	19.4
NOTT	e PKPbc	Z	01:58:46.4	148.3	23.6
GRA1	e PKPbc	Z	01:58:47.6	148.6	22.1
WET	e PKPbc	Z	01:58:47.7	148.7	25.4
TNS	e PKPbc	Z	01:58:48.1	148.7	16.9
GEC2	e PKPbc	Z	01:58:47.2	148.7	27.0
	e PP	Z	02:02:17.3		
STU	e PKPbc	Z	01:58:50.5	150.0	19.0
FUR	e PKPbc	Z	01:58:50.8	150.0	23.2
BFO	e PKPbc	Z	01:58:52.3	150.6	17.7
	e PP	Z	02:02:29.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	01:46:15.3	19.920S	179.280E	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	02:05:47.6	144.9	18.3					
RUE	e PKPbc	Z	02:05:50.1	145.6	24.6					
NRDL	e PKPbc	Z	02:05:51.9	146.4	18.6					
CLL	e PKPbc	Z	02:05:53.4	146.8	24.0					
CLZ	e PKPbc	Z	02:05:54.1	146.9	19.4					
IBBN	e PKPbc	Z	02:05:54.1	146.9	14.7					
BRG	e PKPbc	Z	02:05:53.3	147.0	25.9					
MOX	e PKPbc	Z	02:05:56.3	147.8	22.1					
WERD	e PKPbc	Z	02:05:56.4	147.8	23.4					
GUNZ	e PKPbc	Z	02:05:56.7	147.8	23.5					
BUG	e PKPbc	Z	02:05:56.8	147.9	14.2					
UBBA	e PKPbc	Z	02:05:56.7	148.0	19.3					
NOTT	e PKPbc	Z	02:05:58.5	148.4	23.5					
GRA1	e PKPbc	Z	02:05:59.6	148.7	22.0					
WET	e PKPbc	Z	02:05:59.8	148.8	25.3					
TNS	e PKPbc	Z	02:06:00.2	148.8	16.8					
GEC2	e PKPbc	Z	02:05:59.3	148.8	26.9					
WLF	e PKPbc	Z	02:06:01.8	149.8	12.9					
STU	e PKPbc	Z	02:06:03.0	150.1	18.9					
FUR	e PKPbc	Z	02:06:03.0	150.1	23.1					
BFO	e PKPbc	Z	02:06:04.6	150.7	17.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2005/03/31 02:39:23.8 1.310N 99.280E 33.0N 4.9 SZGRF
Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:52:01.5	86.0	92.8					
GEC2	e P	Z 02:52:01.9	86.1	92.5	1.4	14	4.9		
CLL	e P	Z 02:52:03.9	86.7	92.1					
WET	e P	Z 02:52:04.4	86.7	91.9	1.4	9	4.7		
MOX	e P	Z 02:52:08.1	87.5	91.0					
GRA1	e P	Z 02:52:10.5	87.7	90.6	1.3	15	5.2		
CLZ	e P	Z 02:52:12.8	88.3	90.0	1.0	6	4.9		
TNS	e P	Z 02:52:17.9	89.5	88.5					
BFO	e P	Z 02:52:18.4	89.7	88.4	1.6	12	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/31

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:49:47.2							

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/31 04:48:12.4 1.970N 96.910E 33.8 5.0
Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:00:40.3	84.0	94.2					
GEC2	e P	Z 05:00:39.9	84.0	93.8	1.2	20	5.2		
WET	e P	Z 05:00:43.3	84.6	93.2	1.3	13	5.0		
MOX	e P	Z 05:00:47.4	85.5	92.4	1.4	11	4.9		
GRA1	e P	Z 05:00:48.6	85.7	92.0	1.4	19	5.0		
	e pP	Z 05:00:58.4							
CLZ	e P	Z 05:00:51.3	86.3	91.5	1.1	12	4.9		
TNS	e P	Z 05:00:57.8	87.5	89.9					
IBBN	e P	Z 05:00:59.3	87.9	89.5					
BUG	e P	Z 05:01:00.4	88.2	89.1					

Date Origin Time Lat Long Depth mb Ms ML Source
2005/03/31 07:23:56.5 1.380N 96.110E 32.0 5.7 5.6
Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:36:24.7	84.0	94.8	1.1	108	6.0		
BRG	e P	Z 07:36:24.4	84.0	95.2					

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WET	e P	Z	07:36:27.3	84.5	94.2	1.1	64	5.8		
CLL	e P	Z	07:36:27.1	84.6	94.5					
MOX	e P	Z	07:36:31.7	85.4	93.4					
FUR	e P	Z	07:36:31.9	85.5	92.9					
GRA1	e P	Z	07:36:33.2	85.6	93.0	1.1	105	5.9		
	e pP	Z	07:36:42.5							
	e L	Z	08:22:35.6			19.9	2673	5.6		
CLZ	e P	Z	07:36:35.8	86.3	92.5	1.1	60	5.6		
STU	e P	Z	07:36:38.9	86.9	91.4					
TNS	e P	Z	07:36:41.8	87.4	90.9					
BFO	e P	Z	07:36:41.5	87.5	90.7	1.2	31	5.3		
IBBN	e P	Z	07:36:43.8	87.9	90.5					
BUG	e P	Z	07:36:45.2	88.2	90.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	08:30:26.4	1.367N	95.480E	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 08:43:00.1	85.2	93.5	1.2	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:25:37.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	14:27:28.3	5.250N	94.160E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 14:39:34.6	79.8	94.3					
GEC2	e P	Z 14:39:34.8	79.8	93.7					
WET	e P	Z 14:39:37.1	80.3	93.2	1.0	14	4.9		
CLL	e P	Z 14:39:37.1	80.4	93.6					
MOX	e P	Z 14:39:41.9	81.2	92.4					
GRA1	e P	Z 14:39:43.1	81.4	92.0	1.0	18	5.1		
CLZ	e P	Z 14:39:46.2	82.0	91.6	0.8	15	5.2		
TNS	e P	Z 14:39:52.9	83.2	89.9					
BFO	e P	Z 14:39:52.7	83.3	89.6	0.7	8	5.0		
BUG	e P	Z 14:39:56.6	84.0	89.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:49:02.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	16:29:57.3	0.950N	96.420E	33.0N	4.7			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:42:26.9	84.5	94.9	1.0	7	4.8		
BRG	e P	Z 16:42:27.4	84.5	95.3					
WET	e P	Z 16:42:30.1	85.1	94.3	0.9	6	4.8		
CLL	e P	Z 16:42:30.3	85.1	94.6					
MOX	e P	Z 16:42:34.6	86.0	93.4	1.0	4	4.5		
GRA1	e P	Z 16:42:36.2	86.2	93.1	0.8	8	4.9		
CLZ	e P	Z 16:42:38.6	86.8	92.5	0.8	5	4.7		
BFO	e P	Z 16:42:44.4	88.0	90.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/03/31	18:02:33.9	1.700S	95.340E	33.0N				SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 18:15:11.0	85.8	97.4	1.3	31			
BRG	e P	Z 18:15:10.9	85.9	97.8					
WET	e P	Z 18:15:13.7	86.4	96.8	1.1	15			
CLL	e P	Z 18:15:13.9	86.6	97.1					
FUR	e P	Z 18:15:18.2	87.3	95.6					
MOX	e P	Z 18:15:17.8	87.3	95.9					
GRA1	e P	Z 18:15:19.5	87.5	95.6	1.0	15			
CLZ	e P	Z 18:15:22.4	88.2	95.0	1.2	21			
STU	e P	Z 18:15:24.9	88.7	94.0					
BFO	e P	Z 18:15:26.4	89.3	93.4	0.9	8			
TNS	e P	Z 18:15:28.3	89.3	93.5					
IBBN	e P	Z 18:15:30.3	89.9	93.0					
BUG	e P	Z 18:15:31.8	90.1	92.6					

Format description

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

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Additionally, some selected events are analysed more comprehensively at CLL-station and included in the bulletin (ISOP-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