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

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

JULY 2005 UPDATED 17.FEBRUARY.2006

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

(Format desciption at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/01	03:48:30.0	36.820N	70.670E	33.0N	5.4			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:56:20.2	42.1	86.8	1.1	89	5.4		
RUE	e P	Z	03:56:20.0	42.1	88.4	0.9	81	5.4		
GEC2	e P	Z	03:56:22.9	42.4	84.4	0.9	18	4.8		
CLL	e P	Z	03:56:24.3	42.7	86.6	1.0	41	5.1		
WET	e P	Z	03:56:26.5	42.9	84.2	1.6	21	4.6		
	e S	R	04:02:50.9							
WERD	e P	Z	03:56:29.0	43.2	85.1	1.0	36	5.0		
NOTT	e P	Z	03:56:30.8	43.3	84.3	1.0	55	5.2		
	e S	R	04:02:59.2							
MOX	e P	Z	03:56:32.1	43.6	84.9	1.0	44	5.3		
GRA1	e P	Z	03:56:35.9	43.9	83.6	1.5	123	5.6		
	e S	R	04:03:05.6							
FUR	e P	Z	03:56:36.4	44.1	82.1	1.6	116	5.5		
BSEG	e P	Z	03:56:36.9	44.1	87.3	0.8	91	5.7		
CLZ	e P	Z	03:56:37.5	44.2	85.2	1.2	89	5.6		
NRDL	e P	Z	03:56:38.7	44.4	85.7	1.1	79	5.6		
STU	e P	Z	03:56:46.2	45.4	81.3	0.9	41	5.6		
TNS	e P	Z	03:56:48.4	45.6	82.2	1.2	38	5.4		
IBBN	e P	Z	03:56:49.9	45.8	83.8	0.9	133	6.1		
BFO	e P	Z	03:56:50.8	46.0	80.3	0.9	23	5.3		
BUG	e P	Z	03:56:53.1	46.2	82.6	1.0	71	5.7		
WLF	e P	Z	03:57:00.8	47.2	80.2	0.9	83	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/01	09:36:17.0	32.510N	140.330E	219.0			5.5	SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	09:48:19.8	83.1	43.0	0.8	120	6.2		
BSEG	e P	Z	09:48:21.7	83.4	40.6	0.8	128	6.2		
BRG	e P	Z	09:48:25.6	84.2	43.0	0.7	50	5.9		
CLL	i P	- Z	09:48:25.7	84.3	42.4	0.7	79	6.0		
	i pP	Z	09:49:19.4							
	e sP	Z	09:49:36.2							
	e PP	Z	09:51:42.1							
	e sPP	Z	09:52:54.4							
	e PPP	Z	09:53:37.3							
	e S	E	09:58:24.6							
	e sS	N	09:59:59.1							
	e SS	E	10:04:13.3							
	e sSS	E	10:05:36.3							
	e L	Z	10:31:42.6			13.2	361			
NRDL	e P	Z	09:48:27.3	84.6	40.3	1.4	44	5.5		
	e PP	Z	09:51:45.7							
CLZ	e P	Z	09:48:29.4	85.0	40.5	1.5	127	5.9		
	e pP	Z	09:49:22.4							
WERD	e P	Z	09:48:30.0	85.2	41.8	1.6	47	5.5		
	e PP	Z	09:51:51.8							
GUNZ	e P	Z	09:48:30.5	85.3	41.8	1.7	83	5.6		
	e PP	Z	09:51:53.0							
MOX	e P	Z	09:48:30.7	85.3	41.3	1.4	33	5.3		
	e PP	Z	09:51:52.2							
IBBN	e P	Z	09:48:32.2	85.6	38.5	1.0	111	5.9		
	e pP	Z	09:49:26.1							
	e PP	Z	09:51:54.4							
NOTT	e P	Z	09:48:32.9	85.8	41.6	1.5	54	5.4		
	e PP	Z	09:51:55.6							
GEC2	e P	Z	09:48:32.5	85.8	42.7	0.9	18	5.2		
WET	e P	Z	09:48:33.5	85.9	42.2	2.8	167	5.7		
	e PP	Z	09:51:57.7							
GRA1	e P	Z	09:48:35.6	86.2	41.0	1.8	132	5.8		
	e PP	Z	09:52:00.4							
TNS	e P	Z	09:48:39.1	87.0	39.0	0.7	13	5.2		
STU	e P	Z	09:48:42.3	87.8	39.5	1.1	26	5.5		
BFO	e P	Z	09:48:46.0	88.5	38.8	0.8	24	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/01	20:58:31.1	20.420S	177.280W	555.3				SZGRF

Fiji Islands region

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

BSEG	e PKPbc	Z	21:17:08.8	146.0	12.8
	e PKPab	Z	21:17:10.7		
RUE	e PKPbc	Z	21:17:10.7	146.8	19.2
	e PKPab	Z	21:17:13.9		
NRDL	e PKPbc	Z	21:17:12.5	147.4	12.9
IBBN	e PKPbc	Z	21:17:13.5	147.9	8.9
	e PKPab	Z	21:17:18.2		
	e pPKPbc	Z	21:19:21.9		
CLZ	e PKPbc	Z	21:17:14.2	148.0	13.6
CLL	e PKPbc	Z	21:17:14.0	148.1	18.4
	e PKPab	Z	21:17:18.8		
BRG	e PKPbc	Z	21:17:14.5	148.3	20.3
	e PKPab	Z	21:17:19.6		
MOX	e PKPab	Z	21:17:22.6	149.0	16.3
WERD	e PKPbc	Z	21:17:16.6	149.0	17.7
	e PKPab	Z	21:17:23.4		
GUNZ	e PKPbc	Z	21:17:17.1	149.1	17.7
	e PKPab	Z	21:17:23.7		
NOTT	e PKPbc	Z	21:17:18.1	149.7	17.7
TNS	e PKPbc	Z	21:17:18.6	149.9	10.7
	e PKPab	Z	21:17:26.5		
	e pPKPbc	Z	21:19:26.8		
GRA1	e PKPbc	Z	21:17:18.9	150.0	16.1
GEC2	e PKPbc	Z	21:17:19.1	150.2	21.1
	e PKPab	Z	21:17:28.2		
WLF	e PKPbc	Z	21:17:21.1	150.6	6.6
	e PKPab	Z	21:17:30.2		
STU	e PKPab	Z	21:17:32.0	151.2	12.7
FUR	e PKPab	Z	21:17:33.5	151.4	16.9
	e pPKPbc	Z	21:19:30.4		
BFO	e PKPab	Z	21:17:34.3	151.7	11.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	00:31:56.1	39.970N	142.940E	60.3	5.1	5.2		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	00:43:39.3	76.1	37.5	1.1	50	5.5		
RUE	e P	Z	00:43:47.4	77.6	37.5	1.0	19	5.2		
BSEG	e P	Z	00:43:47.8	77.7	35.3	1.3	31	5.3		
BRG	e P	Z	00:43:53.9	78.8	37.4	1.5	20	4.9		
CLL	e P	Z	00:43:53.6	78.8	36.8	0.9	16	5.0		
NRDL	e P	Z	00:43:54.5	78.9	34.9	1.7	30	5.0		
CLZ	e P	Z	00:43:57.2	79.3	35.1	1.5	40	5.1		
WERD	e P	Z	00:43:59.2	79.8	36.2	1.7	32	5.0		
GUNZ	e P	Z	00:43:59.6	79.8	36.2	1.6	27	4.9		
IBBN	e P	Z	00:43:59.7	79.9	33.3	1.2	28	5.1		

MOX	e P	Z	00:43:59.7	79.9	35.8	1.6	30	5.0	
NOTT	e P	Z	00:44:02.7	80.4	36.0	1.5	30	5.1	
GEC2	e P	Z	00:44:03.1	80.5	37.0	1.7	23	4.9	
WET	e P	Z	00:44:04.0	80.6	36.5	1.4	27	5.1	
BUG	e P	Z	00:44:04.3	80.8	32.9	1.2	21	5.0	
GRA1	e P	Z	00:44:05.2	80.8	35.4	1.2	38	5.3	
	e pP	Z	00:44:21.9						
	e S	E	00:54:16.0						
	e L	Z	01:25:26.8			19.1	960	5.2	
TNS	e P	Z	00:44:07.8	81.4	33.6	1.8	40	5.2	
FUR	e P	Z	00:44:11.3	82.0	35.3	0.9	21	5.3	
STU	e P	Z	00:44:12.5	82.3	34.0	0.9	16	5.2	
WLF	e P	Z	00:44:14.8	82.6	31.9	2.0	54	5.4	
BFO	e P	Z	00:44:16.2	83.0	33.3	1.8	58	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	02:16:49.2	11.930N	85.610W	33.0G	5.9	7.1		SZGRF

Nicaragua

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	02:29:07.0	82.1	279.1	1.4	163	6.0		
HLG	e P	Z	02:29:08.6	82.4	279.8	1.4	214	6.1		
BUG	e P	Z	02:29:08.8	82.5	279.7	1.6	149	6.0		
IBBN	e P	Z	02:29:09.7	82.6	280.0	1.5	133	5.9		
TNS	e P	Z	02:29:14.0	83.4	280.8	1.5	136	6.0		
BFO	e P	Z	02:29:14.8	83.7	280.9	1.4	63	5.7		
BSEG	e P	Z	02:29:16.1	83.8	281.8	2.4	379	6.2		
NRDL	e P	Z	02:29:17.2	84.0	281.8	1.4	85	5.8		
STU	e P	Z	02:29:17.7	84.2	281.5	1.7	180	6.0		
CLZ	e P	Z	02:29:18.6	84.3	282.1	1.2	94	5.9		
GRFO	e P	Z	02:29:23.7	85.3	282.9	1.7	198	6.1		
GRA1	e P	Z	02:29:23.7	85.3	282.9	1.7	220	6.1		
	e		02:29:32.8							
	e		02:30:09.6							
	e PP	Z	02:32:40.0							
	e S	R	02:39:54.5							
	e SS	R	02:46:07.4							
	e PKKPdf	Z	02:47:21.6							
	e P'P'df	Z	02:55:25.3							
	e L	Z	03:04:20.9			20.2	82397		7.1	
MOX	e P	Z	02:29:23.5	85.3	283.1	1.6	118	5.9		
RGN	e P	Z	02:29:24.1	85.4	284.1	1.7	284	6.1		
FUR	e P	Z	02:29:25.3	85.7	283.1	1.7	131	5.8		
WERD	e P	Z	02:29:25.9	85.8	283.7	1.6	146	5.9		
NOTT	e P	Z	02:29:26.4	85.8	283.6	1.6	128	5.8		
	e PP	Z	02:32:44.9							
GUNZ	e P	Z	02:29:26.2	85.8	283.7	1.3	114	5.8		

	CLL	i	P	- Z	02:29:27.1	86.0	284.1	1.3	73	5.7
		e	pP	Z	02:29:40.5					
		e	sP	Z	02:29:48.8					
		i			02:29:55.0					
		i			02:30:12.2					
		e	PP	Z	02:32:57.9					
		e	pPP	Z	02:33:08.0					
		e	S	E	02:40:09.4					
		e	PS	E	02:41:14.0					
		e			02:42:29.8					
		e	SS	E	02:45:50.3					
		e			02:49:51.0					
		e	L	Z	03:07:43.9			18.4	36027	
	RUE	e	P	Z	02:29:27.5	86.2	284.7	2.0	222	5.9
	WET	e	P	Z	02:29:29.6	86.5	284.2	1.5	182	6.0
	BRG	e	P	Z	02:29:30.5	86.7	284.9	1.5	111	5.8
	GEC2	e	P	Z	02:29:32.2	87.1	284.8	1.7	152	5.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	04:11: 9.1	12.400N	85.210W	79.2	5.5	5.9		SZGRF

Nicaragua

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	WLF	e	P	Z 04:23:24.4	81.5	279.1	1.4	48	5.4		
	BUG	e	P	Z 04:23:26.1	81.9	279.7	1.3	24	5.2		
	IBBN	e	P	Z 04:23:27.1	82.0	280.0	1.4	38	5.3		
	TNS	e	P	Z 04:23:31.4	82.8	280.8	2.3	132	5.8		
	BFO	e	P	Z 04:23:32.2	83.1	280.9	1.5	26	5.2		
	BSEG	e	P	Z 04:23:33.5	83.2	281.8	1.9	76	5.6		
	NRDL	e	P	Z 04:23:34.5	83.4	281.8	1.7	64	5.6		
	STU	e	P	Z 04:23:35.1	83.6	281.5	1.9	95	5.7		
	CLZ	e	P	Z 04:23:36.0	83.7	282.0	1.3	16	5.1		
	GRA1	e	P	Z 04:23:41.1	84.7	282.9	1.6	76	5.7		
		e		04:24:02.1							
		e		04:24:18.1							
		e	L	Z 04:59:55.5			19.6	5091		5.9	
	MOX	e	P	Z 04:23:40.9	84.7	283.1	1.6	42	5.4		
	RGN	e	P	Z 04:23:41.4	84.8	284.1	1.9	215	6.1		
	FUR	e	P	Z 04:23:42.6	85.0	283.1	1.5	28	5.3		
	WERD	e	P	Z 04:23:43.3	85.2	283.7	1.7	59	5.5		
	NOTT	e	P	Z 04:23:43.8	85.2	283.6	1.5	32	5.3		
	GUNZ	e	P	Z 04:23:43.6	85.2	283.7	1.4	30	5.3		
	CLL	e	P	Z 04:23:44.6	85.4	284.1	1.7	59	5.6		
		i		04:24:05.8			1.3	25			
		i		04:24:20.7							
		i	PP	Z 04:27:15.0							
		e		04:27:32.0							

	e		04:27:49.9						
	e S	E	04:34:28.4						
	e PS	E	04:35:34.0						
	e SS	E	04:40:17.8						
	e L	Z	05:01:38.4			19.3	3406		
RUE	e P	Z	04:23:44.8	85.6	284.6	0.7	22	5.4	
WET	e P	Z	04:23:46.9	85.8	284.2	1.7	82	5.6	
BRG	e P	Z	04:23:47.8	86.1	284.9	1.5	46	5.4	
GEC2	e P	Z	04:23:49.6	86.4	284.8	1.7	49	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	05:04:21.4	52.092N	163.358W	33.0N	4.6			SZGRF

South of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:16:17.5	78.1	356.6	1.1	5	4.6		
	e pP	Z	05:16:29.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	09:10:32.2	0.812N	98.279E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:23:16.8	87.5	91.7	1.0	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	12:58: 7.8	35.753N	3.555W	33.0G	4.2			MAD-M

Strait of Gibraltar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	13:01:49.3	15.3	219.2					
GRA1	e P	Z	13:02:14.6	17.6	223.2	1.1	18	4.1		
MOX	e P	Z	13:02:24.2	18.5	222.1	1.0	6	3.7		
CLL	e P	Z	13:02:36.7	19.6	223.7	0.9	15	4.2		
BRG	e P	Z	13:02:37.5	19.7	226.5	2.0	34	4.2		
BSEG	e P	Z	13:02:47.8	20.6	213.6	0.9	17	4.4		
RUE	e P	Z	13:02:49.7	20.7	223.1	1.0	52	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	17:35:24.8	35.557N	27.031E	10.0G	4.1	3.9		SZGRF

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:39:16.2	16.5	138.7	1.1	24	4.2		
WET	e P	Z	17:39:22.2	17.1	137.4	0.9	15	4.1		
FUR	e P	Z	17:39:22.5	17.2	131.5	0.8	20	4.3		
NOTT	e P	Z	17:39:31.6	17.9	137.1	1.0	12	4.0		
BRG	e P	Z	17:39:33.1	18.0	143.4	0.9	10	3.9		
GRA1	e P	Z	17:39:35.7	18.2	134.9	1.4	45	4.4		
	e L	Z	17:48:34.7			18.5	577		3.9	
GUNZ	e P	Z	17:39:36.0	18.2	138.7	0.9	10	4.0		
WERD	e P	Z	17:39:36.5	18.3	138.8	1.0	14	4.0		
STU	e P	Z	17:39:41.1	18.6	128.6	0.8	11	4.1		
CLL	e P	Z	17:39:41.4	18.7	142.0	1.2	18	4.2		
MOX	e P	Z	17:39:41.8	18.7	137.7					
BFO	e P	Z	17:39:42.4	18.8	125.9	1.5	10	3.8		
RUE	e P	Z	17:39:49.7	19.3	145.7	1.3	38	4.5		
TNS	e P	Z	17:39:56.0	19.9	130.4	1.0	27	4.4		
CLZ	e P	Z	17:39:57.0	20.2	137.4	1.0	8	3.9		
NRDL	e P	Z	17:40:06.0	20.7	138.0	1.2	7	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	18:12:23.2	13.880N	93.310E	39.9	5.1	4.4		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:23:47.2	72.6	89.3	1.0	24	5.3		
RUE	e P	Z	18:23:47.5	72.7	89.6	1.0	61	5.7		
GEC2	e P	Z	18:23:48.5	72.8	88.4	0.9	29	5.4		
RGN	e P	Z	18:23:49.1	72.9	89.9	0.9	19	5.2		
CLL	e P	Z	18:23:50.1	73.2	88.7	1.0	14	5.0		
WET	e P	Z	18:23:51.6	73.3	87.9	1.2	24	5.2		
GUNZ	e P	Z	18:23:53.4	73.6	87.9	1.3	21	5.0		
WERD	e P	Z	18:23:53.3	73.6	87.9	1.0	14	5.0		
NOTT	e P	Z	18:23:54.8	73.8	87.5	1.2	20	5.0		
MOX	e P	Z	18:23:55.8	74.1	87.4	0.9	13	4.9		
GRA1	e P	Z	18:23:58.2	74.4	86.8					
	e pP	Z	18:24:08.6							
	e sP	Z	18:24:15.5							
	e L	Z	19:02:50.4			21.8	219		4.4	
FUR	e P	Z	18:23:57.8	74.4	86.4	0.5	15	5.3		
BSEG	e P	Z	18:23:59.9	74.7	87.3	1.0	34	5.3		
CLZ	e P	Z	18:24:00.0	74.8	86.8	1.0	22	5.1		
NRDL	e P	Z	18:24:01.2	74.9	86.7					
STU	e P	Z	18:24:05.4	75.8	85.1	0.6	8	5.0		
TNS	e P	Z	18:24:07.6	76.1	84.9	1.0	12	5.0		
IBBN	e P	Z	18:24:09.0	76.4	84.9	1.3	44	5.4		
BFO	e P	Z	18:24:08.3	76.4	84.3	1.1	9	4.8		

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BUG	e P	Z	18:24:11.1	76.7	84.3	1.2	30	5.3		
	WLF	e P	Z	18:24:16.8	77.6	83.0	1.2	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/02	19:36:59.4	0.810N	96.212E	33.0N	4.5			SZGRF

Off west coast of northern Sumatera, Indonesia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	19:49:37.5	86.1	93.3	1.3	5	4.5		

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

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z	03:19:47.8							

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

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	12:16:42.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/03	16:15:28.2	35.937N	27.212E	25.0G	3.8			THE-M

Dodecanese Islands, Greece

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GEC2	e P	Z	16:19:20.2	16.3	137.5	1.0	9	3.8		
	WET	e P	Z	16:19:25.5	16.9	136.3	0.9	11	4.0		
	GUNZ	e P	Z	16:19:38.0	18.0	137.7	0.8	4	3.6		
	GRFO	e P	Z	16:19:38.6	18.0	133.8	0.9	9	3.9		
	WERD	e P	Z	16:19:38.6	18.1	137.8	0.8	4	3.6		
	CLL	e P	Z	16:19:44.8	18.4	141.0	0.7	6	3.8		
	MOX	e P	Z	16:19:45.2	18.5	136.7	1.2	8	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/03	19:27:41.4	52.162N	158.846E	33.0N	4.2			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:39:17.1	74.5	19.9	0.9	2	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/03	22:39:12.1	34.160N	27.360E	10.0G	4.5	3.9		SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:43:19.9	17.8	140.4	1.1	36	4.4		
WET	e P	Z	22:43:25.8	18.4	139.1	1.1	40	4.5		
NOTT	e P	Z	22:43:35.4	19.2	138.7	1.0	11	4.0		
BRG	e P	Z	22:43:36.6	19.4	144.6	0.9	13	4.2		
GRA1	e P	Z	22:43:39.8	19.5	136.6	1.2	64	4.7		
	e L	Z	22:52:42.2			20.9	652		3.9	
GUNZ	e P	Z	22:43:39.5	19.6	140.2	0.9	39	4.6		
WERD	e P	Z	22:43:41.3	19.6	140.3	1.0	48	4.7		
STU	e P	Z	22:43:42.6	19.9	130.6	0.9	19	4.3		
BFO	e P	Z	22:43:45.3	20.0	128.0	1.1	18	4.2		
CLL	e P	Z	22:43:45.4	20.1	143.2	1.5	84	4.8		
MOX	e P	Z	22:43:46.5	20.1	139.2	1.2	48	4.6		
RUE	e P	Z	22:43:53.3	20.7	146.7	1.0	64	4.9		
TNS	e P	Z	22:43:57.2	21.2	132.1	1.1	44	4.7		
CLZ	e P	Z	22:43:58.9	21.5	138.7	1.4	24	4.4		
WLF	e P	Z	22:44:06.5	22.0	126.9	0.9	20	4.5		
NRDL	e P	Z	22:44:06.4	22.1	139.3	1.1	18	4.4		
BUG	e P	Z	22:44:11.5	22.6	132.2	1.2	27	4.7		
BSEG	e P	Z	22:44:17.6	23.1	141.9	0.9	15	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/03	23:44:45.0	42.559N	17.024E	10.0G				SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	23:46:25.7	6.9	142.1					
WET	e Pn	Z	23:46:28.4	7.2	154.8					
	e Sn	N	23:47:49.2							
GRA1	e Pn	Z	23:46:43.1	8.2	148.5					
	e Sn	N	23:48:11.8							
BFO	e Pn	Z	23:46:45.6	8.4	130.2					
	e Sn	E	23:48:16.5							
TANN	e Pn	Z	23:46:46.0	8.5	156.5					
MOX	e Pn	Z	23:46:51.8	8.9	153.3					
	e Sn	N	23:48:27.5							
CLL	e Pn	Z	23:46:56.3	9.2	161.1					
TNS	e Pn	Z	23:47:03.6	9.7	139.1					

```
                          e Sn        N  23:48:46.6


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

                  Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                  GRA1     e PKP       Z  02:22:45.6


   Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2005/07/04   04:34:51.3     4.480N    95.525E    53.6     4.9                SZGRF
Northern Sumatera, Indonesia

                  Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                  GRA1     e P         Z  04:47:13.1    82.9   91.4    1.0         9   4.9
                           e pP        Z  04:47:28.5


   Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2005/07/04   11:36: 7.7     42.203S    41.579E    37.0     5.5   5.7          SZGRF
Prince Edward Islands, South Africa, region

                  Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                  GRA1     e P         Z  11:49:35.5    95.7  157.9    1.1        20   5.5
                           e PP        Z  11:53:21.7
                           e pPP       Z  11:53:31.7
                           e S         T  12:00:47.5
                           e SP        R  12:02:02.2
                           e SS        R  12:07:01.8
                           e L         Z  12:34:04.5                   21.1      2743        5.7


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

                  Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                  GRA1     e PKP       Z  15:40:39.6


   Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2005/07/04   16:07:23.8     9.144N    95.536E    43.3     4.7                SZGRF
Nicobar Islands, India, region
```

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:19:26.8	79.4	88.4	1.2	10	4.7		
	e pP	Z	16:19:39.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/04	19:43:57.7	32.290N	77.950E	33.0N	4.6			SZGRF

Kashmir-India border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:52:46.5	49.6	86.3	0.9	6	4.5		
CLL	e P	Z	19:52:50.2	50.2	85.9	0.9	4	4.3		
GUNZ	e P	Z	19:52:55.2	50.7	84.7	0.8	3	4.3		
WERD	e P	Z	19:52:54.6	50.7	84.7	0.9	5	4.4		
NOTT	e P	Z	19:52:56.7	50.8	84.1	1.0	6	4.5		
MOX	e P	Z	19:52:58.0	51.1	84.4	0.9	5	4.4		
GRA1	e P	Z	19:53:01.5	51.4	83.3					
BSEG	e P	Z	19:53:02.1	51.6	86.0	0.8	10	4.8		
CLZ	e P	Z	19:53:03.2	51.7	84.4	0.9	9	4.7		
NRDL	e P	Z	19:53:04.3	51.8	84.7	0.9	9	4.7		
BFO	e P	Z	19:53:15.8	53.5	80.3					
BUG	e P	Z	19:53:17.0	53.7	81.8	0.6	8	5.0		

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

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	19:57:09.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/04	21:33: 5.4	39.116N	36.036E	5.0G	3.9			KAN-M

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:37:48.7	20.5	111.6	1.4	9	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	01:51:37.7	51.280N	150.560E	155.3	5.1			SZGRF

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	02:02:42.8	71.3	26.5	1.0	12	5.0		

BRG	e P	Z	02:02:44.0	71.4	27.0	1.2	7	4.6
CLZ	e P	Z	02:02:44.9	71.5	25.0	1.4	31	5.3
WERD	e P	Z	02:02:49.0	72.3	25.9	1.4	21	5.1
MOX	e P	Z	02:02:49.0	72.3	25.5	1.2	15	5.0
GUNZ	e P	Z	02:02:49.7	72.3	25.9	1.4	20	5.1
NOTT	e P	Z	02:02:52.8	72.9	25.7	1.4	26	5.2
GRA1	e P	Z	02:02:55.4	73.3	25.2	1.1	39	5.3
	e pP	Z	02:03:33.2					
WET	e P	Z	02:02:55.5	73.3	26.1	1.3	28	5.1
GEC2	e P	Z	02:02:55.2	73.3	26.5	1.4	17	4.9
WLF	e P	Z	02:03:03.1	74.6	22.2	1.4	36	5.2
FUR	e P	Z	02:03:02.9	74.6	25.0	1.4	49	5.4
STU	e P	Z	02:03:02.6	74.6	23.9	1.5	40	5.2
BFO	e P	Z	02:03:05.8	75.3	23.3	1.1	19	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	01:52: 6.0	1.980N	97.060E	33.0N	5.9	6.6		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:04:34.1	84.1	94.1	1.1	85	5.9		
	e S	T	02:14:57.2							
GEC2	e P	Z	02:04:34.3	84.1	93.7	1.2	150	6.1		
	e S	T	02:14:58.1							
RUE	e P	Z	02:04:34.9	84.3	94.1	1.1	174	6.2		
WET	e P	Z	02:04:37.0	84.7	93.1	1.0	98	6.0		
	e S	T	02:15:03.9							
CLL	i P	Z	02:04:36.1	84.7	93.4	1.2	77	5.8		
	i sP	Z	02:04:50.2							
	i		02:04:56.5							
	e S	N	02:15:02.5			24.0	18764			
	e PS	E	02:15:53.6							
	e PPS	E	02:16:35.9							
	e		02:17:19.5							
	e SS	E	02:21:16.0							
	e SSS	N	02:24:01.6							
	e		02:25:25.5							
	e SSSS	N	02:27:10.8							
	e		02:29:03.3							
	e L	Z	02:49:42.6			24.1	22247			
	e LmV	Z	03:05:28.4			15.8	16788			
RGN	e S	T	02:15:03.1	84.8	94.0					
GUNZ	e P	Z	02:04:39.0	85.1	92.8	1.0	60	5.8		
WERD	e P	Z	02:04:39.0	85.1	92.8	1.0	52	5.7		
NOTT	e P	Z	02:04:39.9	85.2	92.6	1.2	59	5.7		
	e S	T	02:15:10.2							
MOX	e P	Z	02:04:41.3	85.6	92.3	1.2	67	5.6		

	e S	T	02:15:11.5						
FUR	e P	Z	02:04:41.6	85.7	91.8	1.2	104	5.8	
	e S	T	02:15:11.3						
GRA1	e P	Z	02:04:42.9	85.8	91.9	1.0	132	6.0	
	e S	T	02:15:15.1						
	e L	Z	02:49:50.0			21.1	26654		6.6
CLZ	e P	Z	02:04:45.4	86.4	91.4	1.1	94	5.8	
	e S	T	02:15:18.7						
BSEG	e P	Z	02:04:45.9	86.5	91.5	1.1	133	6.0	
	e S	T	02:15:20.7						
NRDL	e P	Z	02:04:46.6	86.6	91.2	1.3	151	6.0	
	e S	T	02:15:20.6						
STU	e P	Z	02:04:48.7	87.1	90.3	1.2	70	5.6	
	e S	T	02:15:26.0						
BFO	e P	Z	02:04:51.3	87.7	89.6	1.1	39	5.7	
	e S	T	02:15:30.6						
HLG	e S	T	02:15:34.3	87.9	89.5				
IBBN	e P	Z	02:04:53.4	88.0	89.3	1.0	167	6.3	
	e S	T	02:15:34.8						
BUG	e P	Z	02:04:54.8	88.3	88.9	1.0	109	6.1	
	e S	T	02:15:38.6						
WLF	e P	Z	02:04:58.8	89.1	88.0	1.4	139	6.0	
	e S	T	02:15:45.8						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	07:22:23.5	53.927N	160.571W	33.0N	4.9			SZGRF

South of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:34:08.9	76.2	355.0	0.8	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	07:57:26.5	2.372N	96.244E	30.5	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:09:58.8	85.0	92.3	1.2	18	5.2		
	e pP	Z	08:10:07.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	11:12:14.9	51.000S	73.300W	33.0N				GSRC-M

Southern Chile

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:31:09.3	123.6	228.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	15:41:32.1	4.953N	95.132E	28.4	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:53:50.7	82.3	91.4	1.1	8	4.8		
	e pP	Z	15:53:58.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	20:10:43.2	40.190N	143.600E	33.0N	5.1	4.8		SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	20:22:39.1	77.7	36.9	0.6	23	5.5		
BSEG	e P	Z	20:22:39.4	77.7	34.7	1.2	30	5.3		
BRG	e P	Z	20:22:45.6	78.9	36.8	1.0	9	4.7		
CLL	e P	Z	20:22:45.3	78.9	36.2	1.2	26	5.1		
NRDL	e P	Z	20:22:46.2	78.9	34.4	1.0	6	4.6		
CLZ	e P	Z	20:22:48.9	79.4	34.5	1.3	37	5.1		
WERD	e P	Z	20:22:50.9	79.8	35.7	1.6	29	5.0		
IBBN	e P	Z	20:22:51.3	79.9	32.7	1.4	58	5.3		
GUNZ	e P	Z	20:22:51.3	79.9	35.7	1.4	18	4.8		
MOX	e P	Z	20:22:51.4	79.9	35.2	1.4	23	4.9		
NOTT	e P	Z	20:22:54.4	80.4	35.5	1.4	26	5.1		
GEC2	e P	Z	20:22:54.9	80.6	36.4	1.1	7	4.6		
WET	e P	Z	20:22:55.7	80.7	35.9	1.4	25	5.1		
BUG	e P	Z	20:22:55.9	80.8	32.3	1.0	13	4.9		
GRA1	e P	Z	20:22:56.9	80.8	34.9	1.2	52	5.4		
	e L	Z	21:04:17.2			18.3	429		4.8	
FUR	e P	Z	20:23:03.0	82.1	34.8	1.1	24	5.2		
STU	e P	Z	20:23:04.2	82.4	33.4	1.3	23	5.2		
BFO	e P	Z	20:23:07.8	83.0	32.8	1.7	46	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	21:36:14.7	3.480N	94.170E	33.0N	5.2	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	21:48:27.4	81.1	94.9	1.3	63	5.5		
BRG	e P	Z	21:48:27.4	81.1	95.4	1.4	30	5.1		

RUE	e	P	Z	21:48:28.4	81.4	95.5	1.5	83	5.5
WET	e	P	Z	21:48:30.3	81.7	94.3	1.3	32	5.3
CLL	i	P	Z	21:48:28.4	81.8	94.7	1.2	17	5.0
	i			21:48:36.8					
	e			21:49:03.1					
	e	sP	Z	21:49:38.9					
	e			21:51:38.6					
	e			21:53:24.6					
	e	S	N	21:58:36.7					
	e	PS	Z	21:59:29.3					
	e			22:10:09.9					
	e	Lm	Z	22:40:41.4			15.4	1120	
GUNZ	e	P	Z	21:48:32.5	82.1	94.1	1.3	23	5.1
WERD	e	P	Z	21:48:32.4	82.1	94.1	1.3	22	5.1
NOTT	e	P	Z	21:48:33.4	82.2	93.8	1.6	38	5.3
MOX	e	P	Z	21:48:35.0	82.6	93.6	1.3	18	5.0
FUR	e	P	Z	21:48:34.9	82.7	93.0	1.3	31	5.4
GRA1	e	P	Z	21:48:36.4	82.8	93.1	1.2	32	5.4
	e	S	T	21:58:51.4					
	e	SS	T	22:04:17.4					
	e	L	Z	22:40:42.7			18.1	560	5.0
CLZ	e	P	Z	21:48:39.2	83.4	92.7	1.3	27	5.3
BSEG	e	P	Z	21:48:40.0	83.6	92.9	1.3	28	5.3
NRDL	e	P	Z	21:48:40.6	83.6	92.6	1.3	26	5.3
STU	e	P	Z	21:48:42.4	84.1	91.5	0.8	11	5.1
BFO	e	P	Z	21:48:45.0	84.6	90.8	1.4	21	5.2
IBBN	e	P	Z	21:48:47.7	85.1	90.7			
BUG	e	P	Z	21:48:49.0	85.3	90.3	0.8	18	5.3
WLF	e	P	Z	21:48:53.1	86.1	89.3	1.3	26	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/05	23:20:25.6	69.376N	15.288W	33.0N	4.5			SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:25:32.3	23.4	336.7	2.0	29	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/06	03:25:33.8	54.018N	35.947W	33.0N	4.7	4.1		SZGRF

Reykjanes Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:31:30.1	28.9	296.9	1.3	16	4.7		
	e L	Z	03:41:52.7			18.9	413		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/06	06:22:35.5	36.100S	102.800W	33.0G		4.8		GSRC-M

Southeast of Easter Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e PKP	Z	06:41:40.2	129.3	258.8					
BFO	e PKP	Z	06:41:40.0	129.3	257.0					
NRDL	e PKP	Z	06:41:45.6	131.2	261.7					
CLZ	e PKP	Z	06:41:45.1	131.3	261.3					
	e SKP	Z	06:45:13.7							
GRA1	e PKP	Z	06:41:45.3	131.5	260.0					
	e SKP	Z	06:45:14.7							
	e L	Z	07:35:13.7			22.0	196		4.8	
BSEG	e PKP	Z	06:41:46.1	131.5	263.1					
	e SKP	Z	06:45:14.2							
MOX	e PKP	Z	06:41:47.0	131.9	261.1					
	e SKP	Z	06:45:15.2							
WERD	e PKP	Z	06:41:47.6	132.3	261.4					
GUNZ	e PKP	Z	06:41:47.0	132.3	261.3					
	e SKP	Z	06:45:17.4							
WET	e PKP	Z	06:41:48.4	132.4	260.6					
CLL	e PKP	Z	06:41:48.9	132.8	262.7					
	e SS	E	07:02:16.7							
GEC2	e PKP	Z	06:41:47.8	132.9	260.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/06	08:24:44.3	68.929N	16.882W	28.3	5.6	4.8		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	- Z	08:29:43.1	22.7	332.5	1.3	183			
	i		08:29:49.2							
	e		08:30:00.7							
	e PPP	Z	08:30:18.6							
	e		08:31:52.4							
	e S	E	08:33:52.6							
	e		08:34:05.9							
	e SSS	N	08:34:40.0							
	e L	Z	08:43:00.9			11.2	4416			
GRA1	e P	Z	08:29:52.2	23.5	334.9	1.9	384	5.6		
	e pP	Z	08:29:59.2							
	e L	Z	08:38:12.4			21.6	3517		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/06	18:08: 7.7	68.835N	16.942W	33.0N	4.6			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:13:15.1	23.5	334.7	1.4	30	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/06	22:42: 5.7	1.249N	97.808E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:54:47.3	86.8	91.8	1.2	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/07	02:17: 8.6	56.340N	163.390E	33.0N	5.4	5.1		SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:28:03.5	67.5	15.8	1.6	65	5.6		
RUE	e P	Z	02:28:08.4	68.4	17.6	0.6	28	5.7		
NRDL	e P	Z	02:28:12.1	69.0	15.5	1.3	31	5.4		
IBBN	e P	Z	02:28:15.9	69.5	14.1	1.0	31	5.4		
CLZ	e P	Z	02:28:16.2	69.6	15.6	1.3	55	5.5		
CLL	i P	- Z	02:28:15.8	69.6	17.0	1.2	54	5.5		
	i pP	Z	02:28:25.8							
	i sP	Z	02:28:30.7							
	e PP	Z	02:30:51.8							
	e		02:31:19.3							
	e PPP	Z	02:32:24.8							
	e S	E	02:37:26.1							
	e sS	E	02:37:50.1							
	e SS	N	02:41:49.6							
	e SSS	N	02:45:42.0							
	e L	Z	03:05:25.3			13.8	1071			
BRG	e P	Z	02:28:17.4	69.8	17.5	1.4	30	5.2		
BUG	e P	Z	02:28:20.8	70.4	13.8	0.9	26	5.3		
MOX	e P	Z	02:28:21.5	70.5	16.1	1.0	24	5.3		
WERD	e P	Z	02:28:22.1	70.6	16.5	1.1	30	5.3		
GUNZ	e P	Z	02:28:22.7	70.6	16.5	1.7	70	5.5		
GRA1	e P	Z	02:28:28.0	71.5	15.8	1.1	38	5.4		
	e L	Z	03:02:04.8			20.1	958		5.1	
WET	e P	Z	02:28:29.4	71.7	16.7	1.4	45	5.4		
GEC2	e P	Z	02:28:29.9	71.8	17.1	1.6	43	5.3		
WLF	e P	Z	02:28:33.2	72.3	13.0	2.2	100	5.6		

STU	e P	Z	02:28:34.6	72.7	14.6	0.7	16	5.2
FUR	e P	Z	02:28:36.1	72.9	15.7	1.5	62	5.5
BFO	e P	Z	02:28:37.8	73.3	14.1	4.2	631	6.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/07	07:45:36.6	30.090S	179.290W	433.0N				SZGRF

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	08:05:06.1	155.2	20.1					
NRDL	e PKPab	Z	08:05:11.8	156.6	20.8					
CLL	e PKPab	Z	08:05:13.5	156.9	28.0					
BRG	e PKPab	Z	08:05:14.1	157.0	30.4					
CLZ	e PKPab	Z	08:05:14.7	157.1	21.9					
IBBN	e PKPab	Z	08:05:15.1	157.2	15.9					
WERD	e PKPab	Z	08:05:17.7	157.9	27.5					
MOX	e PKPab	Z	08:05:17.7	157.9	25.8					
GUNZ	e PKPab	Z	08:05:18.2	157.9	27.6					
GEC2	e PKPab	Z	08:05:21.8	158.8	32.5					
WET	e PKPab	Z	08:05:22.2	158.8	30.3					
GRA1	e PKPab	Z	08:05:22.5	158.9	25.9					
WLF	e PKPab	Z	08:05:27.5	160.0	13.9					
FUR	e PKPab	Z	08:05:28.6	160.2	27.9					
BFO	e PKPab	Z	08:05:30.6	160.9	20.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/07	10:09:22.0	23.700S	111.600W	10.0N				NEIR-M

Easter Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e PKPdf	Z	10:28:30.8	126.1	276.8					
BFO	e PKPdf	Z	10:28:36.0	127.2	275.3					
BSEG	e PKPdf	Z	10:28:27.9	127.6	281.3					
NRDL	e PKPdf	Z	10:28:28.4	127.7	280.0					
CLZ	e PKPdf	Z	10:28:29.3	128.0	279.7					
GRA1	e PKPdf	Z	10:28:32.8	128.9	278.8					
MOX	e PKPdf	Z	10:28:30.9	129.0	279.8					
WERD	e PKPdf	Z	10:28:31.8	129.4	280.3					
GUNZ	e PKPdf	Z	10:28:32.1	129.5	280.2					
WET	e PKPdf	Z	10:28:33.2	130.0	279.7					
BRG	e PKPdf	Z	10:28:33.9	130.4	282.1					
GEC2	e PKPdf	Z	10:28:34.4	130.6	280.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/07	11:44:57.7	35.040N	23.080E	10.0G	4.4			SZGRF

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	11:48:38.6	15.4	149.9					
FUR	e P	Z	11:48:43.0	15.8	142.0	0.7	60	4.8		
WET	e P	Z	11:48:44.9	16.0	148.2	0.9	26	4.4		
GRA1	e P	Z	11:48:56.8	17.0	144.9	0.9	107	5.0		
BRG	e P	Z	11:48:57.7	17.2	153.8	0.8	15	4.2		
GUNZ	e P	Z	11:48:59.0	17.2	148.9	0.9	18	4.2		
BFO	e P	Z	11:48:57.8	17.2	135.2	1.1	18	4.1		
WERD	e P	Z	11:48:59.0	17.3	149.0	1.0	17	4.1		
MOX	e P	Z	11:49:04.4	17.7	147.6	1.0	15	4.1		
CLL	e P	Z	11:49:04.4	17.8	152.1	1.0	42	4.5		
	i		11:49:11.5							
	e		11:49:19.0							
CLZ	e P	Z	11:49:20.5	19.1	146.6	1.0	20	4.3		
NRDL	e P	Z	11:49:26.1	19.7	147.0	1.1	13	4.1		
BUG	e P	Z	11:49:30.0	19.9	139.2					
BSEG	e P	Z	11:49:38.9	20.9	149.5	1.1	38	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/07	15:52:50.0	4.400S	153.700E	187.0N				NEIR-M

New Ireland, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	16:11:28.4	124.8	47.7					

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

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:54:31.0							

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

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:11:07.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/08	08:31:54.8	23.680S	178.560W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	08:51:36.5	149.0	15.9					
	e PKPbc	Z	08:51:39.8							
	e PKPab	Z	08:51:44.2							
RUE	e PKPbc	Z	08:51:41.6	149.7	22.8					
	e PKPab	Z	08:51:46.9							
NRDL	e PKPdf	Z	08:51:38.6	150.4	16.2					
	e PKPbc	Z	08:51:43.2							
	e PKPab	Z	08:51:49.6							
IBBN	e PKPdf	Z	08:51:39.6	151.0	12.0					
	e PKPbc	Z	08:51:44.3							
	e PKPab	Z	08:51:52.1							
CLL	e PKPdf	Z	08:51:39.3	151.0	22.2					
	e PKPbc	Z	08:51:44.5							
	e PKPab	Z	08:51:52.1							
CLZ	e PKPdf	Z	08:51:39.4	151.0	17.1					
	e PKPbc	Z	08:51:44.9							
BRG	e PKPdf	Z	08:51:39.7	151.1	24.2					
	e PKPbc	Z	08:51:45.1							
BUG	e PKPdf	Z	08:51:41.2	151.9	11.4					
	e PKPbc	Z	08:51:46.6							
MOX	e PKPdf	Z	08:51:40.7	151.9	20.1					
	e PKPbc	Z	08:51:46.6							
	e PKPab	Z	08:51:55.0							
WERD	e PKPdf	Z	08:51:40.7	151.9	21.5					
	e PKPbc	Z	08:51:46.8							
	e PKPab	Z	08:51:55.7							
GUNZ	e PKPdf	Z	08:51:40.9	152.0	21.6					
	e PKPbc	Z	08:51:47.2							
	e PKPab	Z	08:51:56.4							
NOTT	e PKPdf	Z	08:51:41.8	152.6	21.6					
	e PKPbc	Z	08:51:48.5							
	e PKPab	Z	08:51:58.5							
GRA1	e PKPdf	Z	08:51:42.2	152.9	20.0					
	e PKPbc	Z	08:51:49.3							
	e PKPab	Z	08:52:00.1							
WET	e PKPdf	Z	08:51:42.6	153.0	23.6					
	e PKPbc	Z	08:51:49.4							
	e PKPab	Z	08:52:00.0							
GEC2	e PKPdf	Z	08:51:42.6	153.0	25.4					
	e PKPbc	Z	08:51:49.2							
	e PKPab	Z	08:52:00.3							
WLF	e PKPbc	Z	08:51:51.8	153.8	9.8					
	e PKPab	Z	08:52:03.5							
STU	e PKPbc	Z	08:51:52.2	154.2	16.5					

	e PKPab	Z	08:52:04.6			
FUR	e PKPdf	Z	08:51:44.1	154.3	21.1	
	e PKPbc	Z	08:51:52.5			
	e PKPab	Z	08:52:06.1			
BFO	e PKPdf	Z	08:51:44.8	154.8	14.9	
	e PKPbc	Z	08:51:53.3			
	e PKPab	Z	08:52:07.4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/08	18:08:21.4	35.035N	26.893E	78.0G	3.9			KAN-M

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:12:23.1	16.9	140.0	1.2	13	3.9		
WET	e P	Z	18:12:26.5	17.5	138.7	1.1	8	3.8		
BRG	e P	Z	18:12:38.5	18.4	144.4	0.8	4	3.6		
GRA1	e P	Z	18:12:41.0	18.6	136.1	1.0	17	4.2		
GUNZ	e P	Z	18:12:41.0	18.6	139.9	0.9	6	3.8		
WERD	e P	Z	18:12:40.6	18.7	140.0	1.7	20	4.1		
CLL	e P	Z	18:12:45.3	19.1	143.1	1.1	11	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/08	21:28:27.3	1.214N	96.524E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	21:40:56.5	84.4	94.6	1.1	19	5.2		
BRG	e P	Z	21:40:56.4	84.4	95.0	1.3	13	5.0		
RUE	e P	Z	21:40:57.5	84.6	95.0	0.9	20	5.4		
WET	e P	Z	21:40:59.1	84.9	94.0	1.1	12	5.0		
CLL	e P	Z	21:40:59.3	85.0	94.3	1.1	8	4.9		
GUNZ	e P	Z	21:41:01.2	85.4	93.7	1.1	8	4.9		
WERD	e P	Z	21:41:00.7	85.4	93.7	1.1	8	4.8		
NOTT	e P	Z	21:41:01.9	85.5	93.5	1.1	7	4.8		
MOX	e P	Z	21:41:03.2	85.8	93.2	1.5	15	4.9		
GRA1	e P	Z	21:41:04.9	86.0	92.8	1.0	14	5.0		
CLZ	e P	Z	21:41:07.9	86.7	92.3	1.0	8	4.9		
BSEG	e P	Z	21:41:08.4	86.8	92.4	1.1	17	5.1		
NRDL	e P	Z	21:41:09.0	86.9	92.1	1.4	26	5.2		
BFO	e P	Z	21:41:13.7	87.9	90.5					
IBBN	e P	Z	21:41:15.6	88.3	90.2	1.2	35	5.6		
BUG	e P	Z	21:41:17.0	88.6	89.8	0.9	21	5.3		
WLF	e P	Z	21:41:20.8	89.3	88.9	1.3	25	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	05:54:43.7	46.423N	153.168E	33.0N	4.4			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:06:41.4	78.4	25.7	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	10:07: 3.0	3.270N	127.760E	33.0N		5.5		SZGRF

Talaud Islands, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e Pdiff	Z	10:20:51.9	101.6	68.7					
	e PP	Z	10:25:03.4							
	e SKSac	R	10:31:29.0							
	e Sdiff	T	10:32:29.9							
BRG	e Pdiff	Z	10:20:53.7	102.1	69.1					
	e SKSac	R	10:31:31.1							
	e Sdiff	T	10:32:33.0							
CLL	i Pdiff	- Z	10:20:54.8	102.5	68.2	2.0	45			
	e pP	Z	10:21:13.8							
	i PKP	Z	10:24:30.9							
	i PP	Z	10:25:09.6							
	e pPP	Z	10:25:31.2							
	e SKSac	E	10:31:31.1							
	e SKKSac	E	10:32:11.1							
	e Sdiff	N	10:32:32.6							
	e		10:33:18.3							
	e PPS	E	10:35:02.8							
	e SSS	N	10:44:36.2							
	e L	Z	11:12:45.5			18.5	1893			
BSEG	e Pdiff	Z	10:20:58.3	103.0	65.4					
	e PP	Z	10:25:14.2							
	e SKSac	R	10:31:35.4							
GEC2	e Pdiff	Z	10:20:58.2	103.0	69.3					
	e PP	Z	10:25:14.1							
	e SKSac	R	10:31:36.1							
	e Sdiff	T	10:32:41.1							
WERD	e Pdiff	Z	10:20:58.2	103.3	67.8					
	e PP	Z	10:25:14.9							
GUNZ	e Pdiff	Z	10:20:59.1	103.3	67.9					
WET	e Pdiff	Z	10:20:59.2	103.4	68.6					
	e PP	Z	10:25:16.8							
	e SKSac	R	10:31:38.1							
	e Sdiff	T	10:32:44.0							
MOX	e Pdiff	Z	10:20:59.4	103.6	67.2					

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                        e SKSac     R  10:31:38.1
                        e Sdiff     T  10:32:45.5
                NOTT    e Pdiff     Z  10:21:01.5   103.6   67.8
                        e PP        Z  10:25:18.6
                        e SKSac     R  10:31:39.4
                        e Sdiff     T  10:32:46.8
                NRDL    e Pdiff     Z  10:21:00.8   103.7   65.5
                        e PP        Z  10:25:17.8
                        e SKSac     R  10:31:39.8
                        e Sdiff     T  10:32:47.3
                CLZ     e Pdiff     Z  10:21:02.7   103.8   65.9
                        e SKSac     R  10:31:40.0
                        e Sdiff     T  10:32:48.0
                GRA1    e Pdiff     Z  10:21:02.9   104.2   67.1
                        e PP        Z  10:25:22.4
                        e SKSac     R  10:31:41.2
                        e Sdiff     T  10:32:52.5
                        e L         Z  11:15:32.2                   19.4      1264        5.5
                FUR     e Pdiff     Z  10:21:06.5   104.7   67.5
                        e PP        Z  10:25:25.8
                        e SKSac     R  10:31:44.0
                IBBN    e Pdiff     Z  10:21:08.6   105.1   63.6
                        e PP        Z  10:25:28.9
                        e SKSac     R  10:31:45.9
                        e Sdiff     T  10:32:59.2
                BUG     e PP        Z  10:25:34.0   105.7   63.4
                        e SKSac     R  10:31:48.6
                        e Sdiff     T  10:33:05.5
                STU     e Pdiff     Z  10:21:10.2   105.8   65.7
                        e Sdiff     T  10:33:06.7
                BFO     e Sdiff     T  10:33:10.1   106.5   65.1
                WLF     e PP        Z  10:25:44.9   107.2   62.9
                        e SKSac     R  10:31:56.7
                        e Sdiff     T  10:33:17.8



   Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
2005/07/09

                Sta     Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                GRA1    e PKP       Z  11:54:56.0



   Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
2005/07/09   12:25:24.6     11.918N    95.792E    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	12:37:17.1	77.4	86.3	1.1	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	12:48:11.5	71.580N	2.350W	33.0N	4.4	3.7		SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	12:52:24.3	18.3	344.2	1.3	125	4.9		
BSEG	e P	Z	12:52:26.6	18.5	347.4	1.1	31	4.4		
IBBN	e P	Z	12:52:39.6	19.8	350.6	1.5	29	4.3		
NRDL	e P	Z	12:52:41.4	19.9	348.4	1.2	20	4.2		
RUE	e P	Z	12:52:46.9	20.4	345.4	1.4	48	4.5		
CLZ	e P	Z	12:52:48.8	20.5	348.6	1.2	25	4.4		
BUG	e P	Z	12:52:48.9	20.6	351.4	0.9	23	4.5		
CLL	e P	Z	12:52:57.4	21.4	346.7	1.2	26	4.4		
MOX	e P	Z	12:53:02.8	21.9	348.2	1.3	25	4.5		
BRG	e P	Z	12:53:03.4	22.0	346.3	1.0	11	4.2		
WERD	e P	Z	12:53:05.6	22.1	347.8	1.1	25	4.5		
GUNZ	e P	Z	12:53:05.9	22.2	347.8	0.9	15	4.4		
NOTT	e P	Z	12:53:14.8	22.7	348.2	1.0	9	4.2		
GRA1	e P	Z	12:53:12.4	22.7	348.9	1.1	12	4.4		
	e L	Z	13:03:44.0			20.1	267		3.7	
WET	e P	Z	12:53:19.9	23.5	348.0	1.2	10	4.2		
BFO	e P	Z	12:53:22.1	23.8	351.6	1.3	17	4.4		
GEC2	e P	Z	12:53:24.5	23.9	347.6	1.3	8	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	12:57:29.9	4.622N	97.797E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:09:58.7	84.3	89.6	1.2	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	16:56: 1.5	5.980N	74.630W	33.0N	4.7			SZGRF

Colombia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	17:08:05.1	79.5	266.9	1.0	13	4.8		
BUG	e P	Z	17:08:09.8	80.3	267.4	0.8	8	4.7		
IBBN	e P	Z	17:08:11.6	80.6	267.6	0.7	12	5.0		
BFO	e P	Z	17:08:12.7	80.9	268.7	0.9	5	4.6		

STU	e P	Z	17:08:16.0	81.4	269.3	0.8	11	4.9
NRDL	e P	Z	17:08:19.1	82.1	269.5	0.9	5	4.6
BSEG	e P	Z	17:08:20.0	82.2	269.5	0.9	9	4.9
CLZ	e P	Z	17:08:19.8	82.2	269.8	0.8	8	4.9
GRA1	e P	Z	17:08:23.1	82.8	270.7	1.1	8	4.9
MOX	e P	Z	17:08:24.0	83.0	270.9	0.9	2	4.4
NOTT	e P	Z	17:08:25.9	83.3	271.4	0.9	3	4.5
WERD	e P	Z	17:08:26.6	83.4	271.5	0.9	5	4.7
GUNZ	e P	Z	17:08:26.7	83.5	271.5	0.8	4	4.7
WET	e P	Z	17:08:28.5	83.9	272.0	1.2	6	4.7
CLL	e P	Z	17:08:28.6	83.9	271.9	0.7	5	4.9
GEC2	e P	Z	17:08:31.2	84.4	272.7	0.8	6	4.8
BRG	e P	Z	17:08:31.8	84.5	272.7	0.8	4	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	18:23:58.3	22.630S	177.020W	582.1				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z	18:42:35.8	147.2	17.8					
BSEG	e PKPbc	Z	18:42:39.1	148.2	12.9					
	e PKPab	Z	18:42:45.0							
	e pPKPbc	Z	18:44:52.8							
HLG	e PKPbc	Z	18:42:39.6	148.2	8.6					
RUE	e PKPbc	Z	18:42:40.5	149.0	19.6					
NRDL	e PKPbc	Z	18:42:42.5	149.6	13.1					
IBBN	e PKPbc	Z	18:42:44.7	150.1	8.9					
	e PKPab	Z	18:42:53.7							
CLZ	e PKPdf	Z	18:42:38.2	150.2	13.8					
	e PKPbc	Z	18:42:44.0							
	e PKPab	Z	18:42:53.2							
CLL	e PKPbc	Z	18:42:43.3	150.3	18.9					
	e PKPab	Z	18:42:52.8							
BRG	e PKPdf	Z	18:42:37.4	150.5	20.9					
	e PKPbc	Z	18:42:43.8							
	e PKPab	Z	18:42:53.2							
	e pPKPbc	Z	18:44:56.9							
BUG	e PKPdf	Z	18:42:39.6	151.0	8.2					
	e pPKPbc	Z	18:45:00.3							
MOX	e PKPdf	Z	18:42:38.6	151.2	16.7					
	e PKPbc	Z	18:42:45.5							
	e PKPab	Z	18:42:56.9							
WERD	e PKPdf	Z	18:42:39.3	151.2	18.1					
	e PKPbc	Z	18:42:45.7							
	e PKPab	Z	18:42:56.8							
GUNZ	e PKPdf	Z	18:42:39.5	151.3	18.2					
	e PKPbc	Z	18:42:46.2							

	e PKPab	Z	18:42:57.3			
	e pPKPbc	Z	18:45:01.3			
NOTT	e PKPdf	Z	18:42:39.8	151.9	18.1	
	e PKPbc	Z	18:42:47.0			
	e PKPab	Z	18:42:59.8			
GRA1	e PKPab	Z	18:43:01.6	152.2	16.5	
WET	e PKPdf	Z	18:42:40.5	152.4	20.0	
	e PKPbc	Z	18:42:47.6			
	e PKPab	Z	18:43:01.0			
GEC2	e PKPdf	Z	18:42:40.7	152.4	21.8	
	e PKPbc	Z	18:42:47.5			
	e PKPab	Z	18:43:01.0			
WLF	e PKPab	Z	18:43:06.0	152.9	6.4	
STU	e PKPbc	Z	18:42:51.3	153.4	12.9	
	e PKPab	Z	18:43:06.0			
FUR	e PKPbc	Z	18:42:51.4	153.6	17.4	
	e PKPab	Z	18:43:06.4			
BFO	e PKPbc	Z	18:42:52.4	153.9	11.3	
	e PKPab	Z	18:43:08.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	18:35: 6.9	4.737N	95.488E	45.0	4.9			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:47:27.5	82.7	91.3	1.3	11	4.9		
	e pP	Z	18:47:40.5			1.3	11			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	19:05:42.2	35.664N	45.228E	33.0N	4.0			SZGRF

Iran-Iraq border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:11:33.4	28.3	106.7	0.8	2	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	23:47:30.9	9.826N	93.094E	41.6	4.8			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:59:21.1	77.3	89.8	1.0	7	4.8		
	e pP	Z	23:59:33.2			1.0	7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/09	23:37:13.1	34.040N	141.410E	58.1	6.1			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	23:49:22.3	80.8	41.3	1.2	252	6.1		
RUE	e P	Z	23:49:29.5	82.2	41.5	1.4	222	6.1		
BSEG	e P	Z	23:49:30.6	82.4	39.1	1.2	104	5.9		
BRG	e P	Z	23:49:35.2	83.3	41.5	1.3	151	6.1		
CLL	i P	+ Z	23:49:35.4	83.4	40.8	1.2	215	6.2		
	i pP	Z	23:49:51.6							
	i sP	Z	23:49:59.7							
	e PP	Z	23:52:49.7							
	e pPP	Z	23:53:00.4							
	e sPP	Z	23:53:09.4							
	e S	N	23:59:52.8							
	e ScS	N	00:00:06.4							
	e PPS	Z	00:01:12.9							
	e SS	E	00:05:24.0							
	e SSS	N	00:08:51.8							
	e SSSS	E	00:11:07.4							
	e L	Z	00:34:10.5			16.2	3460			
NRDL	e P	Z	23:49:36.7	83.6	38.8	1.6	103	5.8		
CLZ	e P	Z	23:49:39.0	84.0	38.9	1.3	252	6.3		
WERD	e P	Z	23:49:40.2	84.3	40.3	1.3	94	5.9		
GUNZ	e P	Z	23:49:40.6	84.4	40.3	1.2	119	6.0		
MOX	e P	Z	23:49:40.9	84.5	39.8	1.3	121	6.0		
IBBN	e P	Z	23:49:41.9	84.7	37.0	1.5	266	6.3		
NOTT	e P	Z	23:49:43.4	84.9	40.1	1.2	169	6.1		
GEC2	e P	Z	23:49:43.0	85.0	41.2	1.5	106	5.9		
WET	e P	Z	23:49:44.2	85.1	40.6	1.5	103	5.8		
GRA1	e P	Z	23:49:45.8	85.4	39.4	1.2	324	6.3		
	e pP	Z	23:50:02.0							
	e sP	Z	23:50:09.3							
	e PP	Z	23:53:07.8							
	e S	R	00:00:05.9							
	e SS	T	00:06:04.1							
	e PKKP	Z	00:07:45.5	85.7	40.2					
BUG	e P	Z	23:49:45.9	85.5	36.6	1.2	145	6.0		
FUR	e P	Z	23:49:51.2	86.5	39.4	2.1	517	6.3		
STU	e P	Z	23:49:52.8	86.9	37.9	1.3	142	5.9		
WLF	e P	Z	23:49:55.7	87.4	35.7	1.4	162	6.2		
BFO	e P	Z	23:49:56.2	87.6	37.3	1.3	64	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2005/07/09 23:59:14.8 1.200S 119.800E 10.0N NEIC-M
Sulawesi, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z	00:13:14.4	102.8	76.4					
	e PP	Z	00:17:10.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:51:11.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	04:46:35.8	35.170S	97.620W	33.0G		5.8		SZGRF

West Chile Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PP	Z	05:07:16.7	124.4	254.2					
BFO	e PKPdf	Z	05:05:32.5	125.4	254.7					
	e PP	Z	05:07:22.9							
BUG	e PKPdf	Z	05:05:34.6	125.5	256.1					
	e PP	Z	05:07:24.5							
IBBN	e PKPdf	Z	05:05:35.3	126.0	257.1					
	e PP	Z	05:07:27.7							
STU	e PKPdf	Z	05:05:33.1	126.1	255.5					
	e PP	Z	05:07:28.1							
FUR	e PKPdf	Z	05:05:36.7	127.3	256.4					
	e PP	Z	05:07:36.3							
NRDL	e PKPdf	Z	05:05:37.8	127.5	258.9					
	e PP	Z	05:07:37.8							
CLZ	e PKPdf	Z	05:05:37.8	127.5	258.6					
	e PP	Z	05:07:38.3							
GRA1	e PKPdf	Z	05:05:37.2	127.6	257.5					
	e PP	Z	05:07:37.4							
	e L	Z	05:56:55.7			20.9	1909		5.8	
BSEG	e PKPdf	Z	05:05:39.3	127.9	260.1					
	e PP	Z	05:07:40.2							
MOX	e PKPdf	Z	05:05:38.5	128.0	258.5					
	e PP	Z	05:07:40.8							
NOTT	e PKPdf	Z	05:05:38.5	128.2	258.2					
	e PP	Z	05:07:41.7							
GUNZ	e PKPdf	Z	05:05:38.5	128.4	258.8					
WERD	e PKPdf	Z	05:05:38.3	128.4	258.8					
WET	e PKPdf	Z	05:05:38.0	128.5	258.2					

		e	PP	Z	05:07:45.0				
	GEC2	e	PKPdf	Z	05:05:39.3	129.0	258.5		
		e	PP	Z	05:07:45.4				
	CLL	i	PKPdf	Z	05:05:40.8	129.0	260.0	1.7	24
		e			05:05:48.3				
		e	PP	Z	05:07:45.4			7.6	589
		e	SKP	Z	05:08:45.7				
		e	PKS	Z	05:09:05.0				
		e	PPP	Z	05:10:32.8				
		e	SKKSac	E	05:14:46.0				
		e	PS	E	05:18:01.4				
		e	PPS	Z	05:19:23.0				
		e	SS	E	05:25:21.6				
		e	SSS	E	05:29:52.4				
		e			05:32:24.4				
		e	L	Z	06:05:59.5			17.0	1757
	BRG	e	PKPdf	Z	05:05:41.9	129.5	260.3		
		e	PP	Z	05:07:49.7				
	RUE	e	PKPdf	Z	05:05:42.7	129.7	261.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	08:41:53.4	18.590S	174.110W	135.3				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	09:01:11.8	144.5	7.2					
RUE	e PKPbc	Z	09:01:15.4	145.6	13.3					
NRDL	e PKPbc	Z	09:01:16.7	145.9	7.1					
	e pPKPbc	Z	09:01:52.7							
IBBN	e PKPbc	Z	09:01:17.8	146.3	3.2					
	e pPKPbc	Z	09:01:54.1							
CLZ	e PKPbc	Z	09:01:19.1	146.6	7.7					
	e pPKPbc	Z	09:01:54.4							
CLL	e PKPdf	Z	09:01:17.5	146.8	12.4					
	e PKPbc	Z	09:01:19.3							
	e pPKPbc	Z	09:01:54.7							
BRG	e PKPdf	Z	09:01:18.3	147.1	14.1					
	e PKPbc	Z	09:01:20.2							
	e pPKPbc	Z	09:01:56.0							
BUG	e PKPdf	Z	09:01:18.3	147.1	2.4					
	e PKPbc	Z	09:01:20.2							
MOX	e PKPdf	Z	09:01:19.1	147.6	10.2					
	e PKPbc	Z	09:01:21.6							
WERD	e PKPbc	Z	09:01:22.1	147.7	11.4					
GUNZ	e PKPdf	Z	09:01:19.2	147.8	11.5					
	e PKPbc	Z	09:01:22.5							
NOTT	e PKPbc	Z	09:01:23.8	148.4	11.3					

GRA1	e PKPdf	Z	09:01:20.9	148.6	9.7	
	e PKPbc	Z	09:01:24.7			
WLF	e PKPbc	Z	09:01:25.8	148.9	0.5	
	e PKPab	Z	09:01:29.8			
WET	e PKPbc	Z	09:01:24.9	148.9	12.9	
	e PKPab	Z	09:01:29.3			
GEC2	e PKPdf	Z	09:01:21.5	149.1	14.5	
	e PKPbc	Z	09:01:25.7			
STU	e PKPdf	Z	09:01:22.7	149.7	6.2	
	e PKPbc	Z	09:01:27.2			
	e PKPab	Z	09:01:32.4			
FUR	e PKPdf	Z	09:01:22.7	150.1	10.3	
	e PKPbc	Z	09:01:28.2			
	e PKPab	Z	09:01:34.2			
BFO	e PKPbc	Z	09:01:28.0	150.2	4.7	
	e PKPab	Z	09:01:34.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	13:10: 6.4	41.858N	20.275E	10.0G		4.2		SZGRF

Albania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	13:12:06.7	8.4	144.1					
WET	e Pn	Z	13:12:14.8	8.9	141.9					
FUR	e Pn	Z	13:12:15.9	8.9	131.5					
NOTT	e Pn	Z	13:12:25.3	9.8	141.5					
BRG	e Pn	Z	13:12:28.4	10.0	151.8					
GRA1	e Pn	Z	13:12:30.7	10.0	137.8					
	e L	Z	13:16:00.7			19.9	2389		4.0	
GUNZ	e Pn	Z	13:12:30.7	10.1	144.1					
WERD	e Pn	Z	13:12:31.4	10.2	144.3					
STU	e Pn	Z	13:12:34.2	10.4	127.5					
	e Sn	N	13:14:23.7							
	e L	Z	13:16:39.1			18.6	10113		4.7	
BFO	e Pn	Z	13:12:37.1	10.6	123.1					
MOX	e Pn	Z	13:12:36.9	10.6	142.5					
CLL	e Pn	Z	13:12:36.5	10.7	149.4					
	i Pn2	Z	13:12:42.6							
	e Pg	Z	13:13:03.7							
	e		13:14:02.1							
	i Sn	E	13:14:18.3							
	e Sb	E	13:14:45.5							
	i		13:14:55.0							
	e		13:15:15.1							
	e Sg	E	13:15:46.3							
	e L	Z	13:16:55.2			12.3	4164			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	15:55:26.4	17.694S	12.935W	33.0N	4.5			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:06:39.4	70.7	204.4	1.7	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	16:18:38.5	36.363N	70.867E	33.0N	4.2			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:26:45.7	44.3	84.0	1.1	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	17:08:27.7	40.590N	142.440E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:20:19.9	76.9	35.3	1.2	15	5.0		
BRG	e P	Z	17:20:25.9	78.1	37.4	1.0	4	4.5		
CLL	e P	Z	17:20:25.7	78.1	36.8	1.3	13	4.9		
NRDL	e P	Z	17:20:26.5	78.2	35.0	1.4	6	4.5		
CLZ	e P	Z	17:20:29.3	78.6	35.1	1.4	16	4.9		
WERD	e P	Z	17:20:31.0	79.0	36.3	1.3	5	4.4		
GUNZ	e P	Z	17:20:31.7	79.1	36.3	1.1	6	4.5		
IBBN	e P	Z	17:20:31.7	79.1	33.4					
MOX	e P	Z	17:20:31.7	79.1	35.8	1.7	13	4.7		
NOTT	e P	Z	17:20:34.8	79.6	36.1	1.2	8	4.5		
GEC2	e P	Z	17:20:35.2	79.8	37.0	1.0	4	4.3		
WET	e P	Z	17:20:36.1	79.9	36.5	1.2	8	4.5		
GRA1	e P	Z	17:20:37.2	80.1	35.4	1.3	23	5.0		
FUR	e P	Z	17:20:43.3	81.3	35.3	0.9	11	5.0		
BFO	e P	Z	17:20:48.2	82.3	33.4	1.3	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	17:14:46.3	36.065N	145.648E	33.0N	4.5			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:27:20.0	85.2	35.4	0.9	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	22:27:27.4	36.809N	142.615E	33.0N	4.9			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	22:39:35.8	80.4	36.9	1.3	16	4.9		
BRG	e P	Z	22:39:40.9	81.4	39.2	1.0	8	4.8		
CLL	e P	Z	22:39:41.0	81.5	38.6	0.9	11	5.0		
CLZ	e P	Z	22:39:44.6	82.0	36.8	1.1	11	4.9		
GUNZ	e P	Z	22:39:46.5	82.5	38.0					
MOX	e P	Z	22:39:46.6	82.5	37.5	1.2	5	4.6		
NOTT	e P	Z	22:39:49.6	83.0	37.8	1.0	6	4.8		
GEC2	e P	Z	22:39:49.5	83.1	38.9					
WET	e P	Z	22:39:50.7	83.2	38.3	1.1	6	4.7		
GRA1	e P	Z	22:39:51.9	83.4	37.2	1.0	22	5.3		
FUR	e P	Z	22:39:57.6	84.6	37.1					
STU	e P	Z	22:39:59.4	85.0	35.7					
BFO	e P	Z	22:40:02.5	85.6	35.1	1.0	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	22:39:40.8	55.936N	167.080E	33.0N	5.1			SZGRF

Komandorsky Islands, Russia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	22:50:40.1	68.5	13.7	1.0	16	5.2		
IBBN	e P	Z	22:50:51.6	70.4	12.1					
CLZ	e P	Z	22:50:52.1	70.5	13.6	1.2	25	5.2		
CLL	e P	Z	22:50:52.3	70.6	15.0	1.3	22	5.1		
BRG	e P	Z	22:50:53.8	70.9	15.5	1.0	8	4.8		
BUG	e P	Z	22:50:56.7	71.3	11.8	1.5	24	5.1		
MOX	e P	Z	22:50:57.8	71.5	14.2	2.5	78	5.4		
WERD	e P	Z	22:50:58.5	71.6	14.6					
GUNZ	e P	Z	22:50:59.0	71.7	14.6					
NOTT	e P	Z	22:51:02.0	72.2	14.4	1.6	24	5.1		
GRA1	e P	Z	22:51:04.5	72.5	13.9	1.6	54	5.4		
WET	e P	Z	22:51:06.0	72.7	14.8	1.5	30	5.2		
GEC2	e P	Z	22:51:06.2	72.9	15.2	1.6	25	5.1		
STU	e P	Z	22:51:10.4	73.7	12.7	0.9	9	4.8		
BFO	e P	Z	22:51:14.1	74.2	12.2	1.0	9	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/10	22:50:12.9	4.461N	96.509E	33.0N	5.0			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:02:38.1	83.6	90.7	1.3	14	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11	01:08: 0.9	2.658N	92.937E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:20:21.3	82.6	94.6	1.0	12	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11	11:23:21.5	19.880S	170.977E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	11:42:52.9	144.6	32.6					
IBBN	e PKPbc	Z	11:42:54.2	145.0	28.3					
WERD	e PKPbc	Z	11:42:54.2	145.1	36.7					
GUNZ	e PKPbc	Z	11:42:54.5	145.1	36.8					
MOX	e PKPbc	Z	11:42:54.5	145.2	35.5					
NOTT	e PKPbc	Z	11:42:56.1	145.7	37.0					
GEC2	e PKPbc	Z	11:42:56.0	145.8	40.2					
WET	e PKPbc	Z	11:42:56.7	145.9	38.7					
BUG	e PKPbc	Z	11:42:56.9	145.9	28.1					
GRA1	e PKPbc	Z	11:42:57.6	146.1	35.7					
FUR	e PKPbc	Z	11:43:01.0	147.3	37.2					
STU	e PKPbc	Z	11:43:02.0	147.6	33.3					
WLF	e PKPbc	Z	11:43:03.5	147.9	27.6					
BFO	e PKPbc	Z	11:43:03.4	148.3	32.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11	12:01:40.2	22.790S	111.660W	33.0N		5.7		SZGRF

Easter Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPdf	Z	12:20:37.6	125.0	275.4					
BUG	e PKPdf	Z	12:20:38.4	125.5	277.6					
	e PP	Z	12:22:28.6							
BFO	e PKPdf	Z	12:20:40.2	126.6	276.2					
BSEG	e PKPdf	Z	12:20:40.4	126.9	282.0					
	e PP	Z	12:22:38.9							

NRDL	e	PKPdf		Z	12:20:41.2	127.1	280.8			
STU	e	PKPdf		Z	12:20:41.5	127.1	277.2			
CLZ	e	PKPdf		Z	12:20:42.3	127.4	280.5			
GRA1	e	PKPdf		Z	12:20:44.0	128.3	279.6			
	e	PP		Z	12:22:48.0					
	e	SS		N	12:40:04.6					
	e	L		Z	13:07:32.1			21.8	1656	5.7
MOX	e	PKPdf		Z	12:20:43.9	128.3	280.7			
FUR	e	PKPdf		Z	12:20:44.5	128.5	278.5			
WERD	e	PKPdf		Z	12:20:44.4	128.8	281.1			
NOTT	e	PKPdf		Z	12:20:44.4	128.8	280.5			
GUNZ	e	PKPdf		Z	12:20:44.8	128.8	281.1			
CLL	i	PKPdf	-	Z	12:20:45.4	129.1	282.4	1.4	46	
	e	PP		Z	12:22:52.3					
	e	PKSdf		E	12:24:11.2					
	e	PS		Z	12:33:10.0					
	e				12:35:43.6					
	e	SS		E	12:40:26.3					
	e	SSSS		N	12:48:59.9					
	e	L		Z	13:09:24.8			21.6	1795	
RUE	e	PP		Z	12:22:53.6	129.3	284.1			
WET	e	PKPdf		Z	12:20:45.5	129.4	280.6			
	e	PP		Z	12:22:54.5					
BRG	e	PKPdf		Z	12:20:46.1	129.7	282.9			
	e	PP		Z	12:22:56.7					
GEC2	e	PKPdf		Z	12:20:46.8	130.0	281.0			
	e	PP		Z	12:22:58.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11	14:36: 7.6	0.740N	97.280E	23.9	5.3	5.2		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:48:42.2	85.2	94.4	1.6	59	5.6		
BRG	e P	Z	14:48:42.3	85.2	94.7	1.5	27	5.3		
WET	e P	Z	14:48:44.8	85.8	93.8	1.5	35	5.3		
CLL	i P	+ Z	14:48:44.8	85.8	94.0	1.2	17	5.0		
	i pP	Z	14:48:52.0							
	i sP	Z	14:48:56.0							
	e PPP	Z	14:53:47.2							
	e S	N	14:59:12.6							
	e PS	E	15:00:12.1							
	e		15:01:31.7							
	e SSSS	N	15:11:24.2							
	e L	Z	15:40:51.1			15.7	831			
GUNZ	e P	Z	14:48:47.2	86.2	93.4	1.7	32	5.2		
WERD	e P	Z	14:48:47.4	86.2	93.4					

NOTT	e P	Z	14:48:47.4	86.3	93.2	1.8	28	5.1	
MOX	e P	Z	14:48:49.6	86.7	92.9	1.7	35	5.2	
	e pP	Z	14:48:56.5						
GRA1	e P	Z	14:48:50.6	86.9	92.5	1.5	44	5.4	
	e pP	Z	14:48:57.6						
	e L	Z	15:33:56.6			21.6	1071		5.2
CLZ	e P	Z	14:48:52.8	87.5	92.0	1.6	41	5.5	
BSEG	e P	Z	14:48:53.9	87.6	92.0	1.5	57	5.7	
BFO	e P	Z	14:48:58.8	88.7	90.3	1.8	24	5.1	
BUG	e P	Z	14:49:02.6	89.4	89.5	1.5	54	5.5	
WLF	e P	Z	14:49:06.3	90.2	88.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11	16:06:25.6	26.853S	176.522W					NEIR-M

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	16:26:17.2	154.5	20.2					
	i PKPbc	- Z	16:26:26.2			1.2	19			
	e PKPab	Z	16:26:38.2			1.3	14			
	e		16:26:54.2							
	e PP	Z	16:30:12.8							
	e		16:41:43.6							
	e PPS	Z	16:43:11.7							
	e SS	E	16:49:57.1							
	e L	Z	17:39:08.0			21.7	537			
GRA1	e PKPbc	Z	16:26:29.1	156.4	17.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:24:41.0			0.9	10			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/11	23:06: 0.9	27.540S	175.470W	23.9N		6.0		SZGRF

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	23:25:51.0	153.3	11.5					
	e PKPbc	Z	23:25:58.7							
RUE	e PKPdf	Z	23:25:52.8	154.1	19.1					

	e PKPbc	Z	23:26:00.3							
IBBN	e PKPdf	Z	23:25:54.0	155.1	6.8					
	e PKPbc	Z	23:26:03.1							
CLZ	e PKPdf	Z	23:25:53.8	155.3	12.5					
CLL	i PKPdf	Z	23:25:53.5	155.4	18.3	1.9	38			
	i PKPbc	Z	23:26:03.5			1.6	42			
	i PKPab	Z	23:26:18.0			1.8	62			
	e		23:26:29.0							
	e		23:26:39.7							
	e PP	Z	23:29:51.1							
	e PP2	Z	23:30:10.4							
	e		23:30:32.4							
	e PPP	Z	23:33:16.9							
	e		23:34:32.8							
	e SKKSac	Z	23:37:10.3							
	e PSKS	N	23:40:05.7							
	e SKSP	Z	23:41:19.7							
	e PPS	Z	23:42:53.1							
	e		23:44:40.2							
	e SS	E	23:49:34.2							
BRG	e PKPdf	Z	23:25:54.2	155.6	20.6					
BUG	e PKPab	Z	23:26:20.2	156.0	6.0					
MOX	e PKPdf	Z	23:25:55.2	156.3	15.8					
WERD	e PKPdf	Z	23:25:55.3	156.3	17.4					
GUNZ	e PKPdf	Z	23:25:55.4	156.4	17.5					
	e PKPab	Z	23:26:22.6							
NOTT	e PKPdf	Z	23:25:56.3	157.0	17.4					
GRA1	e PKPdf	Z	23:25:55.7	157.3	15.5					
	e PKPab	Z	23:26:25.6							
	e PP	Z	23:29:56.3							
	e SS	E	23:49:58.8							
	e L	Z	00:42:28.1	157.3	15.5	19.1	2023	6.0		
WET	e PKPdf	Z	23:25:56.3	157.5	19.6					
	e PKPab	Z	23:26:26.9							
WLF	e PKPdf	Z	23:25:57.7	157.8	3.8					
	e PKPab	Z	23:26:28.9							
STU	e PKPdf	Z	23:25:57.8	158.5	11.3					
FUR	e PKPdf	Z	23:25:57.7	158.7	16.7					
	e PKPab	Z	23:26:31.8							
BFO	e PKPdf	Z	23:25:57.9	159.0	9.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:55:27.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/12	08:04:26.2	26.963N	56.894E	33.0N	4.2			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:12:10.7	41.5	105.9	1.0	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/12	17:07:15.2	6.879S	131.365E	10*	5.7			NEIR-M

Tanimbar Islands, Indonesia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z	17:25:51.8	112.8	71.4					
	e PP	Z	17:26:42.3							
	e SKKSac	Z	17:33:46.4							
	e PS	Z	17:36:06.7							
	e PPS	Z	17:37:15.2							
	e SS	N	17:42:48.8							
	e L	Z	18:17:06.5			24.0	331			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/12	23:25:19.7	21.800S	176.820W	33.0N		5.1		SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	23:45:00.3	147.4	12.4					
RUE	e PKPbc	Z	23:45:02.4	148.3	18.9					
IBBN	e PKPbc	Z	23:45:05.5	149.3	8.3					
	e PKPab	Z	23:45:09.7							
CLZ	e PKPdf	Z	23:45:02.2	149.4	13.2					
	e PKPbc	Z	23:45:06.0							
CLL	e PKPdf	Z	23:45:01.8	149.5	18.2					
	i PKPbc	- Z	23:45:05.6			0.9	74			
	i PKPab	+ Z	23:45:10.3			0.8	37			
	e pPKPbc	Z	23:47:15.2							
BRG	e PKPdf	Z	23:45:02.3	149.7	20.1					
	e PKPbc	Z	23:45:06.3							
	e PKPab	Z	23:45:11.5							
MOX	e PKPdf	Z	23:45:03.3	150.4	16.0					
	e PKPbc	Z	23:45:07.9							
	e PKPab	Z	23:45:14.2							
WERD	e PKPdf	Z	23:45:03.5	150.5	17.4					
	e PKPbc	Z	23:45:08.2							

	e PKPab	Z	23:45:14.6						
GUNZ	e PKPdf	Z	23:45:03.7	150.5	17.5				
	e PKPbc	Z	23:45:08.5						
	e PKPab	Z	23:45:15.1						
NOTT	e PKPbc	Z	23:45:09.7	151.1	17.4				
	e PKPab	Z	23:45:17.1						
TNS	e PKPbc	Z	23:45:10.4	151.3	10.2				
	e PKPab	Z	23:45:18.0						
GRA1	e PKPbc	Z	23:45:10.7	151.4	15.7				
	e PKPab	Z	23:45:18.1						
	e L	Z	01:20:49.2	151.4	15.7	21.5	348	5.1	
WET	e PKPdf	Z	23:45:05.1	151.6	19.2				
	e PKPbc	Z	23:45:10.7						
	e PKPab	Z	23:45:19.3						
WLF	e PKPdf	Z	23:45:06.5	152.0	5.9				
	e PKPbc	Z	23:45:12.7						
	e PKPab	Z	23:45:21.8						
STU	e PKPdf	Z	23:45:06.9	152.6	12.2				
	e PKPbc	Z	23:45:13.2						
	e PKPab	Z	23:45:23.3						
FUR	e PKPdf	Z	23:45:06.9	152.9	16.7				
	e PKPbc	Z	23:45:13.5						
	e PKPab	Z	23:45:24.9						
BFO	e PKPdf	Z	23:45:07.6	153.2	10.6				
	e PKPbc	Z	23:45:14.4						
	e PKPab	Z	23:45:25.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/13	00:07:39.3	43.232N	147.959E	33.0N	4.2			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:19:44.0	79.7	30.5	1.0	3	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/13	00:29:33.4	11.300N	93.140E	49.5	5.5			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:41:06.9	74.5	91.1	1.3	58	5.4		
	e S	T	00:50:38.1							
GEC2	e P	Z	00:41:07.5	74.6	90.4	1.1	46	5.4		
	e S	T	00:50:40.4							
RUE	e P	Z	00:41:07.6	74.6	91.4	1.1	118	5.8		
	e S	T	00:50:38.4							

	RGN	e	P		Z	00:41:09.9	74.9	91.6	1.4	91	5.6
	CLL	i	P	+	Z	00:41:09.8	75.1	90.5	1.3	53	5.4
		i	pP		Z	00:41:24.5					
		i	sP		Z	00:41:33.0					
		e				00:41:49.9					
		e	PP		Z	00:44:03.7					
		e	PPP		Z	00:46:03.7					
		e	S		N	00:50:42.9					
		e	sS		N	00:51:09.9					
		e	PS		Z	00:51:33.6					
		e	SS		E	00:55:46.9					
		e	SSS		E	00:58:52.7					
		e	L		Z	01:15:42.6			18.4	356	
	WET	e	P		Z	00:41:10.6	75.1	89.8	1.2	39	5.3
		e	S		T	00:50:46.8					
	GUNZ	e	P		Z	00:41:12.7	75.5	89.7	1.6	66	5.5
	WERD	e	P		Z	00:41:12.6	75.5	89.7	1.6	55	5.4
	NOTT	e	P		Z	00:41:13.8	75.6	89.4	1.6	76	5.6
		e	S		T	00:50:52.3					
	MOX	e	P		Z	00:41:15.2	75.9	89.3	1.6	69	5.5
		e	S		T	00:50:54.7					
	GRA1	e	P		Z	00:41:17.1	76.2	88.7	1.3	72	5.6
		e	pP		Z	00:41:31.3					
		e	S		T	00:50:59.9					
	FUR	e	P		Z	00:41:16.2	76.2	88.4	1.2	53	5.5
	BSEG	e	P		Z	00:41:19.8	76.7	89.0	1.2	98	5.8
		e	S		R	00:51:04.0					
	CLZ	e	P		Z	00:41:19.6	76.7	88.6	1.2	52	5.6
	NRDL	e	P		Z	00:41:20.8	76.8	88.5	1.6	118	5.8
		e	S		R	00:51:04.8					
	STU	e	P		Z	00:41:24.0	77.6	87.0	0.7	21	5.4
		e	S		T	00:51:12.5					
	TNS	e	P		Z	00:41:26.6	78.0	86.7	1.6	42	5.3
		e	S		T	00:51:16.9					
	BFO	e	P		Z	00:41:27.0	78.2	86.2	1.2	28	5.3
		e	S		T	00:51:18.0					
	IBBN	e	P		Z	00:41:28.5	78.3	86.6	1.4	117	5.7
		e	S		T	00:51:20.2					
	WLF	e	P		Z	00:41:35.3	79.5	84.9	1.8	99	5.4
		e	S		T	00:51:34.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/13								

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z	02:59:27.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/13	03:53:14.8	16.470S	178.150W	421.8				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	04:11:58.8	144.0	14.0					
CLL	e PKPbc	Z	04:11:58.8	144.0	18.4					
BRG	e PKPbc	Z	04:11:59.7	144.3	20.1					
MOX	e PKPbc	Z	04:12:02.1	144.9	16.4					
WERD	e PKPbc	Z	04:12:02.6	145.0	17.7					
GUNZ	e PKPbc	Z	04:12:02.9	145.1	17.7					
NOTT	e PKPbc	Z	04:12:04.8	145.6	17.6					
TNS	e PKPbc	Z	04:12:05.1	145.8	11.3					
GRA1	e PKPbc	Z	04:12:05.7	145.9	16.2					
	e pPKPbc	Z	04:13:46.0							
WET	e PKPbc	Z	04:12:05.9	146.1	19.2					
GEC2	e PKPbc	Z	04:12:06.3	146.2	20.7					
STU	e PKPbc	Z	04:12:09.2	147.1	13.1					
FUR	e PKPbc	Z	04:12:09.6	147.4	16.9					
BFO	e PKPbc	Z	04:12:10.2	147.7	11.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/13	08:40:31.8	7.800N	93.290E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:52:23.0	77.2	93.3	0.9	9	4.9		
GEC2	e P	Z	08:52:23.2	77.3	92.7	0.9	8	4.8		
WET	e P	Z	08:52:26.2	77.8	92.1	0.8	5	4.7		
CLL	e P	Z	08:52:26.2	77.9	92.7	1.1	6	4.6		
GUNZ	e P	Z	08:52:28.5	78.2	92.0					
WERD	e P	Z	08:52:28.3	78.3	91.9	0.6	4	4.7		
NOTT	e P	Z	08:52:29.5	78.4	91.7	1.0	6	4.7		
MOX	e P	Z	08:52:31.2	78.7	91.5	0.7	5	4.6		
GRA1	e P	Z	08:52:32.9	78.9	91.0	0.9	12	4.9		
GRFO	e P	Z	08:52:32.9	78.9	91.0	1.0	11	4.9		
CLZ	e P	Z	08:52:35.6	79.5	90.7	0.7	7	4.7		
BSEG	e P	Z	08:52:35.9	79.6	91.1	0.7	9	4.8		
NRDL	e P	Z	08:52:36.6	79.7	90.6	1.2	8	4.5		
BFO	e P	Z	08:52:42.4	80.8	88.5	1.1	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/13	12:06:20.8	17.590S	69.150W	79.7	5.5			SZGRF

Peru-Bolivia border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z	12:19:26.5	94.2	247.6	1.3	57	5.8		
	e SKSac	R	12:29:56.0							
	e SP	Z	12:31:46.7							
BFO	e Pdiff	Z	12:19:29.7	95.1	249.1	1.4	16	5.2		
	e SKSac	R	12:30:00.7							
	e SP	Z	12:31:54.7							
STU	e Pdiff	Z	12:19:33.0	95.8	249.8	0.9	37	5.7		
	e SKSac	R	12:30:04.9							
	e SP	Z	12:32:08.5							
TNS	e Pdiff	Z	12:19:33.5	95.8	249.4	1.2	32	5.6		
	e SKSac	R	12:30:06.3							
	e SP	Z	12:32:08.8							
IBBN	e Pdiff	Z	12:19:34.9	96.1	249.0	1.2	53	5.8		
	e SKSac	R	12:30:06.0							
	e SP	Z	12:32:10.4							
FUR	e Pdiff	Z	12:19:38.5	96.9	251.2	0.6	23	5.7		
	e SKSac	R	12:30:11.1							
	e SP	Z	12:32:20.2							
HLG	e SKSac	R	12:30:11.6	96.9	249.3					
GRA1	e Pdiff	Z	12:19:40.6	97.3	251.4	1.1	32	5.6		
	e pPdiff	Z	12:20:02.3							
	e PP	Z	12:23:47.2							
	e SKSac	R	12:30:14.9							
	e Sdiff	R	12:31:02.5							
	e SP	Z	12:32:24.0							
CLZ	e Pdiff	Z	12:19:41.4	97.5	251.0	1.2	32	5.5		
	e SKSac	R	12:30:16.0							
	e SP	Z	12:32:27.3							
NRDL	e Pdiff	Z	12:19:41.8	97.6	250.9	1.4	26	5.4		
	e SKSac	R	12:30:15.5							
	e SP	Z	12:32:25.8							
MOX	e Pdiff	Z	12:19:43.0	97.9	251.8	1.4	16	5.3		
	e SKSac	R	12:30:18.0							
	e SP	Z	12:32:29.6							
NOTT	e Pdiff	Z	12:19:43.4	97.9	252.0	1.4	25	5.5		
	e SKSac	R	12:30:17.3							
	e SP	Z	12:32:31.5							
BSEG	e Pdiff	Z	12:19:43.7	98.1	251.2	1.4	34	5.6		
	e SKSac	R	12:30:18.0							
WET	e Pdiff	Z	12:19:44.3	98.2	252.5	1.3	20	5.4		
	e SKSac	R	12:30:17.5							
	e SP	Z	12:32:34.7							
GUNZ	e Pdiff	Z	12:19:44.8	98.2	252.3	1.4	20	5.3		
WERD	e Pdiff	Z	12:19:44.8	98.2	252.3	1.4	17	5.3		
GEC2	e Pdiff	Z	12:19:46.1	98.6	253.1	1.3	15	5.3		
	e SKSac	R	12:30:19.5							

	e SP	Z	12:32:34.6						
CLL	e Pdiff	Z	12:19:47.6	98.9	252.9	1.0	13	5.4	
	i pP	Z	12:20:09.6						
	i PP	Z	12:23:35.9						
	e SKSac	E	12:30:22.1						
	e Sdiff	E	12:31:10.9						
	e PS	Z	12:32:36.8						
	e PPS	Z	12:33:41.0						
	e SS	E	12:37:51.6						
	e sSS	E	12:38:45.2						
	e L	Z	13:00:23.9			25.0	998		
BRG	e Pdiff	Z	12:19:49.8	99.3	253.5	1.3	16	5.4	
	e SKSac	R	12:30:24.1						
RUE	e Pdiff	Z	12:19:50.9	99.7	253.7	0.6	18	5.8	
	e SKSac	R	12:30:25.2						
	e SP	Z	12:32:49.1						
RGN	e SKSac	R	12:30:27.1	100.0	253.7				
	e SP	Z	12:32:51.5						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/14	10:33: 8.7	19.550S	178.560W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:52:40.7	144.9	14.7					
NRDL	e PKPbc	Z	10:52:45.5	146.4	14.9					
CLZ	e PKPbc	Z	10:52:47.5	147.0	15.6					
CLL	e PKPbc	Z	10:52:47.2	147.0	20.3					
BRG	e PKPbc	Z	10:52:48.1	147.2	22.1					
MOX	e PKPbc	Z	10:52:50.0	147.9	18.2					
WERD	e PKPbc	Z	10:52:50.3	147.9	19.5					
GUNZ	e PKPbc	Z	10:52:50.7	148.0	19.6					
NOTT	e PKPbc	Z	10:52:52.1	148.6	19.6					
TNS	e PKPbc	Z	10:52:53.0	148.8	12.8					
GRA1	e PKPbc	Z	10:52:53.0	148.9	18.0					
WET	e PKPbc	Z	10:52:53.5	149.0	21.3					
GEC2	e PKPbc	Z	10:52:53.6	149.1	22.9					
WLF	e PKPbc	Z	10:52:55.5	149.7	8.8					
BFO	e PKPbc	Z	10:52:57.3	150.7	13.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:02:06.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/14	19:40:37.7	1.277N	96.437E	33.0N	4.6			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:53:14.8	85.9	92.8	1.0	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:36:22.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/14	22:53:59.1	11.470N	119.340E	33.0N	4.8	4.5		SZGRF

Palawan, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:06:59.0	90.6	70.9	1.0	7	5.0		
WERD	e P	Z	23:07:03.8	91.7	69.6	1.0	5	4.8		
GUNZ	e P	Z	23:07:03.9	91.7	69.6	0.9	5	4.9		
WET	e P	Z	23:07:04.2	91.8	70.1	1.6	6	4.7		
NOTT	e P	Z	23:07:05.9	92.0	69.5	1.2	4	4.6		
MOX	e P	Z	23:07:05.7	92.0	69.1	0.9	3	4.7		
CLZ	e P	Z	23:07:06.8	92.3	68.1	1.2	7	4.9		
GRA1	e P	Z	23:07:08.3	92.6	68.8	1.4	8	4.9		
	e L	Z	23:52:46.3			19.7	161		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	00:56:42.0	51.940N	176.620W	47.8	4.7	4.2		SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:08:14.8	74.0	4.4	0.9	6	4.6		
CLZ	e P	Z	01:08:26.8	76.1	4.4	0.7	7	4.9		
CLL	e P	Z	01:08:28.5	76.4	6.1	0.7	5	4.8		
BRG	e P	Z	01:08:30.6	76.8	6.7	0.7	7	4.9		
MOX	e P	Z	01:08:33.0	77.2	5.2	0.6	5	4.8		
WERD	e P	Z	01:08:33.9	77.3	5.6	1.3	5	4.5		
TNS	e P	Z	01:08:36.2	77.7	3.2	0.8	6	4.8		

NOTT	e P	Z	01:08:37.7	78.0	5.5	0.7	3	4.5	
GRA1	e P	Z	01:08:38.8	78.1	4.9	0.6	13	5.1	
	e pP	Z	01:08:52.5						
	e L	Z	01:41:20.0			21.6	111		4.2
WET	e P	Z	01:08:41.0	78.6	6.0	1.4	5	4.3	
GEC2	e P	Z	01:08:42.4	78.8	6.5	1.0	4	4.4	
BFO	e P	Z	01:08:46.2	79.6	3.1	0.9	5	4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	01:07:17.3	18.776S	68.622W	127.0G				NEIC-M

Chile-Bolivia border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z	01:20:42.1	97.9	250.2					
	e		01:21:11.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	01:20: 5.0	51.620N	176.110W	47.5	4.8			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:31:39.7	74.3	4.1	1.1	13	4.9		
NRDL	e P	Z	01:31:47.6	75.8	4.0	0.8	6	4.7		
CLZ	e P	Z	01:31:51.8	76.4	4.1	1.4	24	5.1		
CLL	e P	Z	01:31:53.4	76.8	5.8	1.2	14	4.9		
BRG	e P	Z	01:31:55.6	77.2	6.4	1.0	12	5.0		
MOX	e P	Z	01:31:57.9	77.5	4.9	1.2	15	5.0		
WERD	e P	Z	01:31:58.8	77.7	5.3	1.1	8	4.7		
GUNZ	e P	Z	01:31:59.2	77.8	5.4	1.2	8	4.7		
TNS	e P	Z	01:32:00.9	78.1	2.9	0.9	11	5.0		
NOTT	e P	Z	01:32:02.4	78.3	5.2	0.8	6	4.7		
GRA1	e P	Z	01:32:03.9	78.5	4.6	1.0	20	5.1		
	e pP	Z	01:32:17.5							
WET	e P	Z	01:32:05.8	78.9	5.7	1.2	6	4.5		
GEC2	e P	Z	01:32:06.8	79.2	6.2	1.0	7	4.5		
BFO	e P	Z	01:32:11.0	80.0	2.8	1.4	14	4.7		
FUR	e P	Z	01:32:11.7	80.0	4.6	0.9	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	12:50:21.7	9.669N	93.064E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

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

GRA1	e P	Z	13:02:13.8	77.4	89.9	1.3	12	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	13:45:44.5	33.022S	179.910W	200.0G				GSRC-M

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	14:05:50.3	157.9	23.3					
CLL	e PKPab	Z	14:05:57.3	159.4	32.2					
BRG	e PKPab	Z	14:05:57.5	159.5	34.9					
CLZ	e PKPab	Z	14:05:58.9	159.8	25.6					
IBBN	e PKPab	Z	14:05:59.5	159.9	19.0					
WERD	e PKPab	Z	14:06:01.9	160.4	31.9					
MOX	e PKPab	Z	14:06:02.1	160.4	30.0					
GUNZ	e PKPab	Z	14:06:02.6	160.5	32.1					
NOTT	e PKPab	Z	14:06:04.2	161.0	32.5					
GEC2	e PKPab	Z	14:06:04.5	161.2	37.7					
GRA1	e PKPab	Z	14:06:06.5	161.4	30.5					
TNS	e PKPab	Z	14:06:07.2	161.7	22.9					
BFO	e PKPab	Z	14:06:14.8	163.5	25.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	15:17:18.0	44.185N	12.309E	10.0G			4.7	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	15:18:03.4	2.8	214.9					4.8
KBA	e Pn	Z	15:18:05.8	3.0	194.4					4.5
WTTA	e Pn	Z	15:18:07.4	3.1	171.1					5.0
DAVA	e Pn	Z	15:18:13.3	3.5	150.5					4.5
ARSA	e Pn	Z	15:18:16.7	3.8	217.4					4.2
MOA	e Pn	Z	15:18:18.6	3.9	201.1					4.5
FUR	e Pn	Z	15:18:19.8	4.0	169.4					5.3
	e Sg	E	15:19:27.1							
GEC2	e Pn	Z	15:18:28.7	4.8	192.1					4.8
BFO	e Pn	Z	15:18:30.9	5.0	145.0					4.7
	e Sn	N	15:19:24.6							
WET	e Pn	Z	15:18:31.4	5.0	184.7					4.9
	e Sn	E	15:19:25.2							
	e Sn	Z	15:19:25.7							
GRA1	e Pn	Z	15:18:39.2	5.6	171.9					
TANN	e Pn	Z	15:18:49.3	6.2	181.0					
MOX	e Pn	Z	15:18:50.6	6.5	175.6					
	e Sn	N	15:20:00.2							
TNS	e Pn	Z	15:18:53.2	6.6	155.1					

BRG	e	Pn	Z	15:18:56.1	6.8	190.0			
	e	Sn	N	15:20:07.9					
WLF	e	Pn	Z	15:18:58.6	6.9	140.2			
	e	Sn	N	15:20:13.8					
CLL	i	Pn	- Z	15:19:00.7	7.0	185.3	0.4	48	
	e	Pg	Z	15:19:18.0					
	e	Sn	N	15:20:16.8					
	e			15:20:33.0					
	i	Sb	E	15:21:05.5					
	e			15:21:14.7					
	e	Sg	E	15:21:26.8					
	e	L	Z	15:22:05.9			11.5	1769	
CLZ	e	Pn	Z	15:19:09.4	7.8	169.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	15:23:50.4	44.438N	12.121E	10.0G			3.6	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e	Pn	Z 15:24:33.2	2.7	220.3					3.8
KBA	e	Pn	Z 15:24:35.3	2.8	198.4					3.4
WTTA	e	Pn	Z 15:24:37.1	2.8	173.0					3.8
DAVA	e	Pn	Z 15:24:42.7	3.2	150.5					3.4
ARSA	e	Pn	Z 15:24:46.2	3.7	221.4					3.3
MOA	e	Pn	Z 15:24:48.2	3.7	204.3					3.5
	e	Sn	E 15:25:32.3							
GEC2	e	Pn	Z 15:24:58.6	4.5	194.4					3.8
	e	Sn	N 15:25:51.2							
BFO	e	Pn	Z 15:25:00.7	4.7	144.7					3.7
	e	Sn	N 15:25:54.1							
WET	e	Pn	Z 15:25:00.9	4.7	186.6					
	e	Sn	N 15:25:55.7							
GRA1	e	Sn	N 15:26:06.2	5.3	173.0					
TANN	e	Pn	Z 15:25:19.0	6.0	182.3					
MOX	e	Pn	Z 15:25:20.7	6.2	176.7					
	e	Sn	N 15:26:29.8							
TNS	e	Pn	Z 15:25:22.8	6.3	155.3					
BRG	e	Sn	N 15:26:37.5	6.6	191.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	21:02:11.9	7.910N	71.550W	9.2	5.1			SZGRF

Venezuela

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e	P	Z 21:14:00.1	76.0	265.8	1.5	52	5.4		

BFO	e P	Z	21:14:07.0	77.4	267.7	1.0	15	5.1
TNS	e P	Z	21:14:08.6	77.5	267.4	0.9	29	5.4
STU	e P	Z	21:14:11.0	78.0	268.3	0.8	43	5.6
NRDL	e P	Z	21:14:14.8	78.7	268.2	1.0	18	5.0
CLZ	e P	Z	21:14:15.9	78.8	268.6	0.9	22	5.2
BSEG	e P	Z	21:14:15.5	78.8	268.1	0.9	24	5.2
GRA1	e P	Z	21:14:18.6	79.3	269.6	1.4	26	5.1
	e pP	Z	21:14:21.2					
FUR	e P	Z	21:14:18.5	79.3	270.0	1.0	25	5.2
MOX	e P	Z	21:14:19.4	79.6	269.8	1.0	9	4.7
NOTT	e P	Z	21:14:21.9	79.9	270.3	1.6	26	4.9
WERD	e P	Z	21:14:21.9	80.0	270.3	1.1	18	4.9
GUNZ	e P	Z	21:14:22.3	80.0	270.4	1.1	11	4.7
WET	e P	Z	21:14:24.0	80.4	271.0	0.8	6	4.6
CLL	e P	Z	21:14:23.7	80.4	270.7	1.0	17	4.9
GEC2	e P	Z	21:14:27.1	80.9	271.7	1.1	20	5.1
BRG	e P	Z	21:14:27.9	81.0	271.5	1.0	16	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	21:15: 6.7	9.698N	93.869E	20.0	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:27:01.5	77.9	89.3	1.2	12	4.9		
	e pP	Z	21:27:07.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/15	22:05:11.0	7.192S	150.727E	33.0N		5.3		GSRC-M

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	22:24:08.8	123.6	54.7					
NRDL	e PKPdf	Z	22:24:11.1	124.5	49.8					
WERD	e PKPdf	Z	22:24:11.1	124.7	53.2					
GUNZ	e PKPdf	Z	22:24:10.7	124.7	53.3					
CLZ	e PKPdf	Z	22:24:11.0	124.8	50.4					
GEC2	e PKPdf	Z	22:24:11.2	124.9	55.5					
WET	e PKPdf	Z	22:24:11.3	125.2	54.5					
GRA1	e PKPdf	Z	22:24:12.4	125.7	52.5					
	e PP	Z	22:26:17.0							
	e L	Z	23:18:49.2			21.6	706		5.3	
TNS	e PKPdf	Z	22:24:14.1	126.8	49.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/16	00:00:57.0	23.424N	120.628E	49.1	4.9			SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:13:24.3	83.9	60.5	1.6	14	4.9		
	e pP	Z	00:13:38.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/16	02:17: 3.2	26.683N	70.361E	33.0N	5.4	4.5		SZGRF

India-Pakistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:25:43.0	48.6	95.7	1.3	33	5.2		
BRG	e P	Z	02:25:43.7	48.7	97.7	2.4	223	5.8		
CLL	i P	+ Z	02:25:48.0	49.3	97.2	1.8	50	5.2		
	e		02:26:13.2							
	e PP	Z	02:27:43.4							
	e PcS	Z	02:30:54.8							
	e S	E	02:32:41.3							
	e SS	N	02:36:11.8							
	e SSS	N	02:36:51.6							
	e L	Z	02:51:59.6			12.6	1474			
TANN	e P	Z	02:25:51.1	49.6	96.0	1.5	50	5.2		
NOTT	e P	Z	02:25:52.2	49.7	95.2	1.5	78	5.4		
MOX	e P	Z	02:25:55.0	50.1	95.5	1.4	93	5.5		
FUR	e P	Z	02:25:54.9	50.2	93.2	1.0	32	5.2		
GRA1	e P	Z	02:25:56.8	50.3	94.4	1.3	98	5.6		
	e L	Z	02:49:47.4			20.1	474		4.5	
CLZ	e P	Z	02:26:01.3	51.0	95.5	1.3	87	5.5		
NRDL	e P	Z	02:26:02.9	51.2	95.8					
BSEG	e P	Z	02:26:02.7	51.3	97.1	1.4	153	5.7		
STU	e P	Z	02:26:06.0	51.6	92.1					
TNS	e P	Z	02:26:10.4	52.1	92.6	1.6	54	5.2		
BFO	e P	Z	02:26:09.6	52.1	91.1	1.2	23	5.0		
IBBN	e P	Z	02:26:13.5	52.6	93.7					
WLF	e P	Z	02:26:21.9	53.6	90.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/17	01:04:32.7	20.580N	94.980E	33.0N	5.5			SZGRF

Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:15:33.2	68.6	83.3	0.7	34	5.7		
GEC2	e P	Z	01:15:36.0	69.0	82.3	0.9	40	5.7		

CLL	e	P		Z	01:15:36.2	69.1	82.8	1.1	30	5.4
WET	e	P		Z	01:15:39.0	69.5	81.9	0.9	23	5.3
TANN	e	P		Z	01:15:39.9	69.6	82.0	1.0	25	5.3
NOTT	i	P	+	Z	01:15:41.8	69.9	81.6	1.0	44	5.5
MOX	e	P		Z	01:15:42.4	70.1	81.5	1.1	32	5.3
BSEG	e	P		Z	01:15:44.5	70.4	81.7	0.9	57	5.7
GRA1	e	P		Z	01:15:45.5	70.5	80.9	0.8	24	5.4
CLZ	e	P		Z	01:15:46.2	70.7	81.0	1.1	46	5.5
FUR	e	P		Z	01:15:46.2	70.7	80.4	0.8	30	5.5
NRDL	e	P		Z	01:15:46.8	70.7	81.0	1.2	57	5.6
STU	e	P		Z	01:15:53.8	72.0	79.1	0.8	50	5.7
TNS	e	P		Z	01:15:55.1	72.2	79.0	1.0	39	5.5
IBBN	e	P		Z	01:15:55.2	72.2	79.2	1.0	49	5.6
BFO	e	P		Z	01:15:57.2	72.6	78.3	0.8	13	5.1
WLF	e	P		Z	01:16:05.0	73.7	77.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/17	06:12:34.2	24.846N	93.714E	33.0N	5.1			SZGRF

Myanmar-India border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z	06:23:12.3	65.2	80.0	1.4	16	5.1	
WET	e	P	Z	06:23:15.4	65.6	79.5	1.2	7	4.8	
TANN	e	P	Z	06:23:15.9	65.7	79.8	1.1	7	4.8	
NOTT	e	P	Z	06:23:18.0	66.0	79.3	1.1	12	5.0	
MOX	e	P	Z	06:23:18.4	66.2	79.3	1.2	9	4.9	
BSEG	e	P	Z	06:23:19.6	66.4	79.7	1.1	23	5.3	
GRA1	e	P	Z	06:23:21.9	66.6	78.6	1.3	18	5.1	
CLZ	e	P	Z	06:23:22.0	66.7	78.9	1.1	17	5.2	
NRDL	e	P	Z	06:23:22.5	66.7	79.0	1.2	25	5.3	
STU	e	P	Z	06:23:31.1	68.1	76.8	1.3	20	5.2	
TNS	e	P	Z	06:23:31.8	68.2	76.8	1.2	12	5.0	
WLF	e	P	Z	06:23:42.3	69.8	75.0	1.2	32	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/17	07:49:48.4	4.812N	92.867E	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	08:01:59.9	80.9	93.3	1.1	9	4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/17	11:29:14.8	85.434N	83.384E	33.0N	4.4			SZGRF

North of Severnaya Zemlya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:36:39.4	39.1	6.9	0.8	8	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/17	17:30:59.5	23.640S	178.190W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:50:44.4	149.0	15.3					
	e PKPab	Z	17:50:48.7							
NRDL	e PKPbc	Z	17:50:47.6	150.5	15.6					
IBBN	e PKPbc	Z	17:50:49.0	151.0	11.3					
CLL	e PKPbc	Z	17:50:48.8	151.0	21.5					
	e PKPab	Z	17:50:56.2							
CLZ	e PKPbc	Z	17:50:49.5	151.0	16.4					
BRG	e PKPbc	Z	17:50:49.6	151.2	23.6					
	e PKPab	Z	17:50:57.0							
MOX	e PKPbc	Z	17:50:51.2	151.9	19.4					
TANN	e PKPbc	Z	17:50:51.6	152.0	21.1					
NOTT	e PKPbc	Z	17:50:52.9	152.6	20.9					
TNS	e PKPbc	Z	17:50:53.7	152.9	13.4					
GRA1	e PKPab	Z	17:51:05.1	152.9	19.2					
WET	e PKPab	Z	17:51:05.5	153.1	22.8					
GEC2	e PKPbc	Z	17:50:53.9	153.1	24.7					
	e PKPab	Z	17:51:05.6							
BFO	e PKPab	Z	17:51:12.4	154.8	14.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	02:17:50.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/18	02:04:58.5	09.981S	124.374E	10G	5.7	5.2		NEIR-M

Timor, Indonesia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PP	Z	02:24:14.6	111.1	79.4					
	e		02:28:36.5							
	e SKSac	E	02:30:08.1							

e PS	Z	02:33:33.0				
e PPS	Z	02:34:48.2				
e L	Z	03:19:52.0			19.0	1039

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/18	02:06:58.4	9.821S	124.173E	2*	5.8	5.2		NEIR-M

Timor, Indonesia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PPP	Z	02:28:36.2	110.7	79.4					
	e SKSac	E	02:32:08.6							
	e Sdiff	E	02:33:45.9							
	e PS	Z	02:35:37.5							
	e PPS	Z	02:36:44.4							
	e		02:43:33.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/18	16:31:50.7	13.463N	40.833E	33.0N	4.5			SZGRF

Ethiopia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:39:37.9	41.9	138.3	1.2	13	4.5		
WET	e P	Z	16:39:41.4	42.4	137.5	1.2	7	4.3		
NOTT	e P	Z	16:39:48.1	43.3	137.0					
BRG	e P	Z	16:39:49.1	43.3	140.1	1.1	7	4.3		
TANN	e P	Z	16:39:51.6	43.6	137.9					
GRA1	e P	Z	16:39:50.9	43.6	135.8	1.2	9	4.4		
CLL	e P	Z	16:39:54.8	44.0	139.2					
BFO	e P	Z	16:39:55.0	44.0	131.2	1.7	14	4.4		
MOX	e P	Z	16:39:55.3	44.1	137.0					
TNS	e P	Z	16:40:04.5	45.2	132.8					
CLZ	e P	Z	16:40:06.0	45.5	136.3					
WLF	e P	Z	16:40:10.5	46.0	129.7					
BUG	e P	Z	16:40:15.8	46.6	132.3					
BSEG	e P	Z	16:40:19.1	47.0	137.6	1.1	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/18	19:38:42.3	13.478N	113.784E	33.0N	5.3			SZGRF

South China Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:51:18.4	85.6	73.9	1.3	34	5.3		
CLL	i P	- Z	19:51:20.9	86.1	73.2	1.4	22	5.1		

	i pP	Z	19:51:32.8						
	i PP	Z	19:55:38.5						
	e		19:55:50.0						
	e		19:57:07.2						
	e PPS	E	20:05:35.3						
	e SSS	E	20:14:25.6						
	e L	Z	20:41:09.6			23.9	1104		
GEC2	e P	Z	19:51:21.8	86.4	73.6	1.4	22	5.1	
TANN	e P	Z	19:51:23.5	86.7	72.8				
WET	e P	Z	19:51:23.8	86.8	73.0	1.5	24	5.1	
BSEG	e P	Z	19:51:24.0	86.8	71.3	2.4	100	5.5	
NOTT	e P	Z	19:51:25.2	87.1	72.5				
MOX	e P	Z	19:51:25.1	87.1	72.1	1.5	28	5.2	
NRDL	e P	Z	19:51:27.0	87.4	71.1				
CLZ	e P	Z	19:51:27.1	87.5	71.2	1.7	37	5.4	
GRA1	e P	Z	19:51:27.8	87.7	71.8	1.6	39	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19	08:04:30.0	35.629N	13.439W	33.0N	4.5			SZGRF

Azores-Cape St. Vincent Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	08:09:01.5	20.0	232.8					
BFO	e P	Z	08:09:06.6	20.4	239.6					
STU	e P	Z	08:09:13.9	21.2	240.0					
TNS	e P	Z	08:09:17.2	21.5	235.7					
FUR	e P	Z	08:09:23.1	22.1	244.6					
GRA1	e P	Z	08:09:30.0	22.8	241.2	1.2	21	4.5		
NOTT	e P	Z	08:09:35.9	23.3	242.3					
MOX	e P	Z	08:09:37.2	23.5	239.8					
WET	e P	Z	08:09:38.4	23.5	244.7					
TANN	e P	Z	08:09:42.6	23.8	241.6					
GEC2	e P	Z	08:09:41.0	23.8	246.5					
BRG	e P	Z	08:09:51.4	24.9	242.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19	10:31:32.2	20.032S	170.334E	33.0N		5.1		SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:50:57.8	142.8	32.1					
BRG	e PKPbc	Z	10:51:01.2	144.0	39.8					
CLL	e PKPbc	Z	10:51:01.0	144.0	38.1					
NRDL	e PKPbc	Z	10:51:01.8	144.1	32.8					
CLZ	e PKPbc	Z	10:51:03.3	144.6	33.7					

TANN	e PKPbc	Z	10:51:04.2	144.9	38.0				
IBBN	e PKPbc	Z	10:51:05.0	145.0	29.4				
MOX	e PKPbc	Z	10:51:04.9	145.1	36.6				
NOTT	e PKPbc	Z	10:51:06.6	145.6	38.1				
GEC2	e PKPbc	Z	10:51:06.7	145.6	41.3				
WET	e PKPbc	Z	10:51:07.2	145.8	39.8				
BUG	e PKPbc	Z	10:51:07.7	145.9	29.2				
GRA1	e PKPbc	Z	10:51:08.1	146.0	36.8				
	e L	Z	12:03:54.6			18.8	286	5.1	
TNS	e PKPbc	Z	10:51:09.8	146.6	32.0				
FUR	e PKPbc	Z	10:51:11.6	147.2	38.3				
STU	e PKPbc	Z	10:51:12.6	147.5	34.4				
WLF	e PKPbc	Z	10:51:14.2	147.8	28.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19	13:09:35.5	39.061N	73.051E	33.0N	4.7			SZGRF

Tajikistan-Xinjiang border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:17:25.5	42.2	82.4					
CLL	e P	Z	13:17:29.5	42.8	82.3					
TANN	e P	Z	13:17:34.1	43.2	81.0					
NOTT	e P	Z	13:17:36.2	43.5	80.1					
MOX	e P	Z	13:17:37.3	43.7	80.6					
GRA1	e P	Z	13:17:41.1	44.1	79.4	0.9	14	4.7		
CLZ	e P	Z	13:17:41.9	44.3	81.0					
FUR	e P	Z	13:17:42.7	44.4	77.9					
TNS	e P	Z	13:17:54.1	45.8	78.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	15:14:44.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19	17:16: 6.7	42.610N	152.250E	180.7	5.4			SZGRF

North Pacific Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:27:46.9	78.1	27.6	0.8	18	5.3		
CLL	e P	Z	17:27:54.5	79.6	29.2	0.9	25	5.1		
	e PcP	Z	17:28:00.7							

BRG	e P	Z	17:27:55.5	79.7	29.8	1.0	19	5.0
	e PcP	Z	17:28:01.9					
CLZ	e P	Z	17:27:57.1	79.9	27.5	0.9	26	5.2
IBBN	e P	Z	17:27:59.4	80.2	25.7			
TANN	e P	Z	17:28:01.3	80.6	28.8			
MOX	e P	Z	17:28:01.3	80.6	28.2			
	e PcP	Z	17:28:06.4					
BUG	e P	Z	17:28:04.1	81.2	25.3			
NOTT	e P	Z	17:28:04.5	81.2	28.5			
	e PcP	Z	17:28:09.3					
GEC2	e P	Z	17:28:06.2	81.6	29.5			
	e PcP	Z	17:28:11.4					
WET	e P	Z	17:28:06.0	81.6	29.0	0.9	25	5.3
	e PcP	Z	17:28:11.3					
GRA1	e P	Z	17:28:06.6	81.6	27.9	0.9	51	5.6
	e PcP	Z	17:28:11.3					
	e pP	Z	17:28:50.6					
TNS	e P	Z	17:28:08.3	81.9	26.0			
FUR	e P	Z	17:28:13.7	82.9	27.8	1.0	70	5.8
WLF	e PcP	Z	17:28:18.1	83.1	24.4			
BFO	e P	Z	17:28:17.0	83.7	25.9	0.9	52	5.7
	e PcP	Z	17:28:20.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19	23:10: 2.9	38.569N	142.661E	33.0N	5.0			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:22:19.5	81.9	36.3	0.9	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/19	23:28:12.7	19.782S	170.931E	33.0N		5.0		SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	23:47:41.2	144.0	38.8					
CLZ	e PKPbc	Z	23:47:43.4	144.5	32.7					
IBBN	e PKPbc	Z	23:47:44.9	144.9	28.3					
TANN	e PKPbc	Z	23:47:45.0	144.9	37.0					
MOX	e PKPbc	Z	23:47:45.3	145.1	35.5					
NOTT	e PKPbc	Z	23:47:46.6	145.6	37.0					
WET	e PKPbc	Z	23:47:46.9	145.8	38.7					
BUG	e PKPbc	Z	23:47:47.9	145.8	28.1					
GRA1	e PKPbc	Z	23:47:48.6	146.0	35.7					
TNS	e PKPbc	Z	23:47:50.1	146.5	30.9					

FUR	e PKPbc	Z	23:47:51.7	147.2	37.2				
STU	e PKPbc	Z	23:47:53.0	147.5	33.3				
WLF	e PKPbc	Z	23:47:53.7	147.7	27.6				
BFO	e PKPbc	Z	23:47:55.0	148.2	32.3				
GRA1	e L	Z	01:05:15.1	146.0	35.7	19.5	269	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/20	04:47: 7.5	19.330S	176.700W	33.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:06:40.4	145.0	11.6					
NRDL	e PKPbc	Z	05:06:45.1	146.4	11.7					
IBBN	e PKPbc	Z	05:06:46.7	146.8	7.7					
CLZ	e PKPbc	Z	05:06:47.1	147.0	12.3					
	e PKPab	Z	05:06:48.4							
CLL	e PKPdf	Z	05:06:45.4	147.1	17.0					
	e PKPbc	Z	05:06:46.9							
	e PKPab	Z	05:06:48.6							
BRG	e PKPdf	Z	05:06:45.9	147.4	18.8					
	e PKPbc	Z	05:06:47.7							
	e PKPab	Z	05:06:49.5							
BUG	e PKPbc	Z	05:06:48.8	147.7	7.0					
	e PKPab	Z	05:06:51.3							
MOX	e PKPdf	Z	05:06:47.0	148.0	14.9					
	e PKPbc	Z	05:06:49.5							
	e PKPab	Z	05:06:51.9							
WERD	e PKPdf	Z	05:06:47.1	148.1	16.2					
	e PKPbc	Z	05:06:49.8							
	e PKPab	Z	05:06:52.4							
GUNZ	e PKPdf	Z	05:06:47.3	148.1	16.3					
	e PKPbc	Z	05:06:50.1							
	e PKPab	Z	05:06:52.9							
NOTT	e PKPdf	Z	05:06:47.8	148.7	16.2					
	e PKPbc	Z	05:06:51.7							
	e PKPab	Z	05:06:54.9							
TNS	e PKPbc	Z	05:06:52.1	148.8	9.4					
	e PKPab	Z	05:06:55.8							
GRA1	e PKPbc	Z	05:06:52.5	149.0	14.6					
	e PKPab	Z	05:06:56.5							
WET	e PKPdf	Z	05:06:48.6	149.2	17.9					
	e PKPbc	Z	05:06:52.5							
	e PKPab	Z	05:06:57.4							
GEC2	e PKPbc	Z	05:06:53.0	149.3	19.5					
	e PKPab	Z	05:06:58.2							
WLF	e PKPbc	Z	05:06:54.7	149.6	5.3					
	e PKPab	Z	05:06:59.5							

STU	e PKPdf	Z	05:06:50.9	150.2	11.2	
	e PKPbc	Z	05:06:55.4			
	e PKPab	Z	05:07:01.5			
FUR	e PKPbc	Z	05:06:55.9	150.5	15.4	
	e PKPab	Z	05:07:02.7			
BFO	e PKPbc	Z	05:06:56.7	150.7	9.7	
	e PKPab	Z	05:07:03.4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/20	13:06: 5.7	22.971N	121.724E	33.0N	4.8	5.2		SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:18:37.6	84.9	60.0	1.2	8	4.8		
	e PP	Z	13:21:53.4							
	e L	Z	14:00:12.0			20.1	1067		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/20	18:06:54.8	42.280N	109.960E	33.0N	5.2	4.5		SZGRF

Mongolia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:17:12.1	61.8	56.6	1.2	23	5.3		
BSEG	e P	Z	18:17:13.0	61.9	55.8	1.3	36	5.4		
CLL	e P	Z	18:17:13.3	62.0	56.3	0.8	16	5.3		
NRDL	e P	Z	18:17:19.4	62.8	55.0	1.5	26	5.1		
WERD	e P	Z	18:17:19.5	62.9	55.5	1.6	25	5.1		
GUNZ	e P	Z	18:17:19.4	62.9	55.5	1.3	17	5.0		
GEC2	e P	Z	18:17:20.2	63.0	55.6	1.5	17	5.0		
CLZ	e P	Z	18:17:21.0	63.1	54.9	1.3	25	5.2		
MOX	e P	Z	18:17:21.0	63.1	55.2	1.5	20	5.0		
WET	e P	Z	18:17:22.5	63.3	55.3	1.5	23	5.2		
NOTT	e P	Z	18:17:22.6	63.3	55.1	1.4	19	5.2		
GRA1	e P	Z	18:17:26.4	63.9	54.5	1.3	52	5.6		
	e L	Z	18:44:29.1			18.7	310		4.5	
FUR	e P	Z	18:17:32.3	64.7	54.0	0.8	20	5.4		
BFO	e P	Z	18:17:40.5	66.2	52.4	1.7	18	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/20	21:54:10.2	42.950N	108.700E	33.0N	5.7	4.9		SZGRF

Mongolia

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

BRG	e	P		Z	22:04:19.7	60.6	56.8	0.9	71	5.5
BSEG	e	P		Z	22:04:21.1	60.8	56.1	1.0	66	5.4
CLL	i	P	+	Z	22:04:21.1	60.9	56.5	0.9	64	5.5
	i	PP		Z	22:06:36.8					
	e				22:07:13.8					
	e	PPP		Z	22:08:06.7					
	e	S		E	22:12:39.9					
	e	SS		E	22:16:43.9					
	e	L		Z	22:33:02.1			11.1	2041	
NRDL	e	P		Z	22:04:27.5	61.7	55.3	1.3	77	5.8
WERD	e	P		Z	22:04:27.3	61.7	55.7	1.0	30	5.5
GUNZ	e	P		Z	22:04:27.6	61.8	55.6	1.0	50	5.7
HLG	e	P		Z	22:04:27.9	61.8	54.6	1.1	330	6.5
GEC2	e	P		Z	22:04:28.3	61.9	55.8	1.2	40	5.5
CLZ	e	P		Z	22:04:29.1	61.9	55.1	1.2	68	5.8
MOX	e	P		Z	22:04:29.0	62.0	55.4	1.1	47	5.6
WET	e	P		Z	22:04:30.4	62.2	55.4	1.0	38	5.6
NOTT	e	P		Z	22:04:30.6	62.2	55.3	1.0	50	5.7
GRA1	e	P		Z	22:04:34.5	62.7	54.7	1.0	136	6.0
	e	PP		Z	22:06:50.6					
	e	S		T	22:13:08.1					
	e	L		Z	22:33:16.7			19.0	748	4.9
IBBN	e	P		Z	22:04:35.3	63.0	53.8	1.3	58	5.6
FUR	e	P		Z	22:04:40.0	63.6	54.1	1.0	72	5.9
BUG	e	P		Z	22:04:40.6	63.7	53.1	1.1	49	5.6
TNS	e	P		Z	22:04:41.7	63.9	53.3	1.4	47	5.5
STU	e	P		Z	22:04:44.4	64.4	53.2	1.1	49	5.6
BFO	e	P		Z	22:04:48.8	65.1	52.6	0.9	22	5.4
WLF	e	P		Z	22:04:51.9	65.4	51.8	1.2	28	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/21	01:42:50.6	4.560N	95.580E	11.0	5.2	4.6		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:55:03.3	81.2	93.6	0.9	14	5.0		
GEC2	e P	Z	01:55:03.8	81.2	93.1	1.0	24	5.2		
RUE	e P	Z	01:55:04.1	81.4	93.7	0.9	60	5.6		
WET	e P	Z	01:55:06.5	81.8	92.5	1.5	23	5.1		
CLL	i P	Z	01:55:10.0	81.8	92.9	1.2	15	5.0		
	e pP	Z	01:55:14.3							
	e		01:55:32.7							
	e PP	Z	01:58:20.7							
	e S	E	02:05:27.4							
	e PS	Z	02:05:51.9							
	e L	Z	02:40:03.9			14.8	202			
GUNZ	e P	Z	01:55:08.5	82.2	92.3	1.1	12	4.9		

WERD	e P	Z	01:55:08.5	82.2	92.3	1.7	22	5.0	
NOTT	e P	Z	01:55:09.5	82.3	92.1	1.1	9	4.8	
MOX	e P	Z	01:55:10.9	82.6	91.8	0.8	7	4.9	
FUR	e P	Z	01:55:11.3	82.8	91.2	0.6	11	5.3	
GRA1	e P	Z	01:55:12.5	82.9	91.3	2.1	70	5.5	
	e pP	Z	01:55:15.7						
	e L	Z	02:38:20.4			20.6	292		4.6
CLZ	e P	Z	01:55:15.0	83.5	90.9	0.9	21	5.4	
BSEG	e P	Z	01:55:15.4	83.5	91.1	0.9	30	5.5	
NRDL	e P	Z	01:55:16.2	83.6	90.8	1.3	34	5.4	
STU	e P	Z	01:55:18.6	84.2	89.7	1.0	13	5.1	
TNS	e P	Z	01:55:21.3	84.7	89.3	1.2	12	5.0	
BFO	e P	Z	01:55:21.2	84.8	89.0	0.8	9	5.0	
IBBN	e P	Z	01:55:23.2	85.1	88.9	0.9	33	5.6	
BUG	e P	Z	01:55:24.8	85.4	88.5	0.9	23	5.4	
WLF	e P	Z	01:55:29.1	86.2	87.5	1.4	33	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/21	19:17:48.8	8.428S	12.528W	18.0	5.4	4.7		SZGRF

Ascension Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	19:27:51.9	59.7	204.1	1.6	48	5.3		
STU	e P	Z	19:27:56.2	60.3	204.9	1.0	15	5.0		
WLF	e P	Z	19:27:56.8	60.3	201.4	1.6	50	5.3		
FUR	e P	Z	19:27:57.3	60.4	207.3	2.1	190	5.8		
TNS	e P	Z	19:28:04.2	61.4	203.8	1.5	34	5.0		
GRA1	e P	Z	19:28:06.2	61.7	206.9	2.2	101	5.3		
	e pP	Z	19:28:11.2							
	e L	Z	19:54:55.4			18.3	490		4.7	
WET	e P	Z	19:28:06.5	61.7	208.8	1.8	58	5.5		
GEC2	e P	Z	19:28:06.8	61.7	209.8	1.7	58	5.5		
NOTT	e P	Z	19:28:08.7	62.1	207.8	1.9	71	5.6		
BUG	e P	Z	19:28:09.8	62.3	202.2	2.0	104	5.7		
GUNZ	e P	Z	19:28:12.4	62.6	207.9	1.8	49	5.4		
MOX	e P	Z	19:28:12.7	62.7	207.1	1.7	48	5.5		
WERD	e P	Z	19:28:12.8	62.7	207.9	1.7	47	5.5		
IBBN	e P	Z	19:28:16.1	63.2	202.6	1.4	51	5.4		
CLZ	e P	Z	19:28:17.8	63.4	205.5	2.4	81	5.4		
BRG	e P	Z	19:28:18.7	63.6	209.5	1.5	23	5.1		
CLL	e P	Z	19:28:19.3	63.7	208.4	1.5	23	5.1		
NRDL	e P	Z	19:28:21.7	63.9	205.1	1.6	65	5.6		
RUE	e P	Z	19:28:27.8	64.9	208.9	2.0	126	5.8		
BSEG	e P	Z	19:28:29.7	65.3	205.0	1.9	104	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	00:27: 3.6	35.333N	140.801E	47.9	4.9			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:39:28.8	84.0	39.2	1.1	9	4.9		
	e pP	Z	00:39:42.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:40:20.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	00:48: 6.5	46.064N	153.874E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:00:07.1	78.9	25.4	0.9	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	07:02: 5.1	3.836N	95.244E	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	07:14:28.5	83.2	92.1	0.9	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	09:50:11.0	2.530N	95.950E	33.0N	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:02:33.5	83.0	94.2	1.2	24	5.3		
BRG	e P	Z	10:02:33.5	83.0	94.6	1.3	12	5.0		
WET	e P	Z	10:02:36.3	83.6	93.6	1.0	11	5.0		
CLL	e P	Z	10:02:36.3	83.6	93.9	1.1	8	4.8		
GUNZ	e P	Z	10:02:38.3	84.0	93.3	1.0	7	4.9		
WERD	e P	Z	10:02:38.4	84.0	93.3	1.0	9	5.0		
NOTT	e P	Z	10:02:38.9	84.1	93.1	1.4	12	4.9		
MOX	e P	Z	10:02:40.6	84.5	92.8	1.1	7	4.8		

GRA1	e P	Z	10:02:41.6	84.7	92.4	1.0	19	5.3
CLZ	e P	Z	10:02:44.8	85.3	91.9	1.0	10	5.0
BSEG	e P	Z	10:02:45.5	85.4	92.0	0.8	11	5.1
NRDL	e P	Z	10:02:45.9	85.5	91.8	1.3	17	5.1
TNS	e P	Z	10:02:51.0	86.5	90.3	1.2	11	4.9
BFO	e P	Z	10:02:51.0	86.5	90.1	0.9	6	4.7
IBBN	e P	Z	10:02:52.9	86.9	89.9	0.8	21	5.3
BUG	e P	Z	10:02:54.5	87.2	89.5	0.8	15	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	12:28:14.8	16.750S	174.520W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	12:47:46.8	144.9	12.6					
MOX	e PKPbc	Z	12:47:49.5	145.7	10.5					
WERD	e PKPbc	Z	12:47:50.2	145.9	11.7					
GUNZ	e PKPbc	Z	12:47:51.0	145.9	11.8					
TNS	e PKPbc	Z	12:47:52.2	146.4	5.1					
NOTT	e PKPbc	Z	12:47:52.5	146.5	11.6					
GRA1	e PKPbc	Z	12:47:54.0	146.7	10.1					
WET	e PKPbc	Z	12:47:54.5	147.1	13.1					
GEC2	e PKPbc	Z	12:47:54.6	147.2	14.6					
BFO	e PKPbc	Z	12:47:57.7	148.3	5.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	15:39:24.4				4.6			SZGRF

Zaire

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:49:29.6			1.0	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	17:25:19.0	3.860N	96.300E	45.7	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:37:33.1	82.2	93.5	0.5	7	5.0		
GEC2	e P	Z	17:37:34.2	82.2	93.0	1.4	12	4.8		
MOX	e P	Z	17:37:41.8	83.6	91.7					
GRA1	e P	Z	17:37:42.7	83.9	91.3	0.8	7	4.9		
	e pP	Z	17:37:55.9							
CLZ	e P	Z	17:37:45.7	84.5	90.8	0.9	5	4.7		

BSEG	e P	Z	17:37:45.9	84.5	91.0				
STU	e P	Z	17:37:49.1	85.2	89.6	0.6	12	5.3	
TNS	e P	Z	17:37:52.0	85.7	89.2	0.7	5	4.7	
BFO	e P	Z	17:37:51.8	85.8	88.9	0.7	3	4.5	
IBBN	e P	Z	17:37:54.3	86.1	88.8				
BUG	e P	Z	17:37:54.9	86.4	88.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	20:57:12.0	6.436N	95.315E	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	21:09:25.3	81.3	90.3	1.2	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/22	22:45:28.9	10.969N	93.661E	33.0N	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:57:17.6	76.8	88.6	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	00:45: 0.0	5.990N	94.690E	48.6	5.1	5.0		SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:57:02.4	79.5	93.4	0.9	14	4.9		
GEC2	e P	Z	00:57:02.8	79.6	92.8	1.1	38	5.2		
RUE	e P	Z	00:57:03.3	79.7	93.6	0.8	39	5.4		
WET	e P	Z	00:57:05.6	80.1	92.3	1.1	22	5.0		
CLL	e P	Z	00:57:05.2	80.1	92.7	1.0	12	4.8		
GUNZ	e P	Z	00:57:07.7	80.5	92.0	1.1	13	4.9		
WERD	e P	Z	00:57:07.7	80.5	92.0	1.3	15	4.9		
NOTT	e P	Z	00:57:08.6	80.6	91.8	0.9	8	4.7		
MOX	e P	Z	00:57:10.1	81.0	91.5	1.4	18	4.9		
FUR	e P	Z	00:57:10.6	81.2	90.9	0.8	14	5.0		
GRA1	e P	Z	00:57:11.8	81.2	91.1	1.1	35	5.3		
	e pP	Z	00:57:25.8							
	e L	Z	01:46:12.1			20.8	745		5.0	
GRFO	e P	Z	00:57:11.8	81.2	91.1	1.1	30	5.2		
CLZ	e P	Z	00:57:14.4	81.8	90.8	1.1	23	5.2		
BSEG	e P	Z	00:57:15.0	81.9	91.0	1.1	17	5.1		
NRDL	e P	Z	00:57:15.7	82.0	90.6	1.3	28	5.2		

STU	e P	Z	00:57:19.5	82.5	89.4				
TNS	e P	Z	00:57:20.8	83.0	89.0	0.9	12	5.1	
BFO	e P	Z	00:57:20.7	83.1	88.7	0.9	10	5.1	
IBBN	e P	Z	00:57:22.8	83.4	88.8	0.9	25	5.5	
BUG	e P	Z	00:57:24.4	83.7	88.3	1.1	22	5.3	
WLF	e P	Z	00:57:28.6	84.5	87.2	1.2	12	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	01:04:18.4	15.200S	167.400E	70.0N				GSRC-M

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPpre	Z	01:23:29.2	138.5	39.1	1.0	10			
	i PKPdf	Z	01:23:36.7			1.1	27			
	i		01:23:50.5							
	e pPKPdf	Z	01:24:08.8							
	e sPKPdf	Z	01:24:31.0							
	e		01:26:12.2							
	e PP	Z	01:26:28.7							
	e SKPbc	Z	01:27:02.7							
	e PKSbc	N	01:27:12.8							
GRA1	e PKP	Z	01:23:34.0	140.4	37.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	01:33:16.7	34.800N	22.000E	33.0N	3.7			GSRC-M

Central Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:37:15.6	16.9	148.0	1.0	6	3.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	05:04:14.3	9.436N	91.677E	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	05:16:02.3	76.7	91.1	1.4	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	07:28:49.7	6.325N	98.322E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:41:13.6	83.3	88.1	0.9	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	07:35: 0.5	36.250N	140.530E	75.5	6.4			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	07:46:55.6	78.5	40.9	1.3	708	6.5		
RUE	e P	Z	07:47:02.9	79.9	41.0	1.3	561	6.3		
	e pP	Z	07:47:23.3							
	e PP	Z	07:50:06.1							
	e S	R	07:57:02.4							
BSEG	e P	Z	07:47:04.1	80.1	38.7	1.3	415	6.3		
	e PP	Z	07:50:06.3							
HLG	e P	Z	07:47:07.6	80.8	36.9	1.6	493	6.3		
BRG	e P	Z	07:47:08.8	81.1	41.0	1.1	179	6.1		
	e PP	Z	07:50:14.7							
	e S	R	07:57:12.8							
CLL	i P	+ Z	07:47:09.1	81.1	40.3	1.0	359	6.4		
	e pP	Z	07:47:28.2							
	i sP	Z	07:47:37.3							
	e		07:47:48.6							
	e PP	Z	07:50:15.3							
	e pPP	Z	07:50:34.9							
	e PPP	Z	07:52:07.8							
	e S	N	07:57:14.6							
	e sS	E	07:57:42.3							
	e PS	N	07:58:02.5							
	e SS	N	08:02:39.6							
	e SSS	N	08:06:42.5							
	e L	Z	08:27:40.2			15.8	2499			
NRDL	e P	Z	07:47:10.3	81.3	38.4	1.1	139	6.0		
CLZ	e P	Z	07:47:12.7	81.7	38.5	1.4	450	6.4		
	e pP	Z	07:47:33.4							
	e PP	Z	07:50:21.2							
WERD	e P	Z	07:47:14.1	82.1	39.8	1.6	260	6.2		
GUNZ	e P	Z	07:47:14.5	82.1	39.8	1.6	348	6.3		
MOX	e P	Z	07:47:14.7	82.2	39.3	1.5	304	6.3		
IBBN	e P	Z	07:47:15.5	82.4	36.7	0.9	252	6.4		
NOTT	e P	Z	07:47:17.3	82.6	39.6	1.4	446	6.5		
	e pP	Z	07:47:37.4							
GEC2	e P	Z	07:47:17.2	82.7	40.6	1.2	137	6.1		
WET	e P	Z	07:47:18.2	82.8	40.1	1.6	317	6.3		
GRA1	e P	Z	07:47:19.8	83.1	38.9	1.5	953	6.8		
BUG	e P	Z	07:47:19.9	83.2	36.3	1.9	630	6.5		
TNS	e P	Z	07:47:22.9	83.8	37.0	1.4	277	6.3		

FUR	e P	Z	07:47:25.3	84.3	38.9	0.9	285	6.5
STU	e P	Z	07:47:27.0	84.6	37.5	1.4	509	6.6
WLF	e P	Z	07:47:29.7	85.1	35.3	1.5	615	6.5
BFO	e P	Z	07:47:30.3	85.3	36.8	1.3	378	6.4
	e S	R	07:57:57.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	08:51:43.3	30.740S	177.020W	33.0N		5.8		SZGRF

Kermadec Islands, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	09:11:36.0	156.2	15.8					
	e PKPab	Z	09:12:02.5							
RUE	e PKPdf	Z	09:11:37.8	156.9	24.2					
NRDL	e PKPdf	Z	09:11:38.5	157.6	16.3					
CLL	e PKPdf	Z	09:11:38.3	157.2	25.5					
	i pPKPdif	Z	09:11:50.5	157.2	25.5	1.0	20			
	e		09:11:55.4							
	i PKPab	Z	09:12:10.0			0.9	43			
	i PKPabm	Z	09:12:14.4			0.8	111			
	e pPKPab	Z	09:12:23.8							
	e sPKPab	Z	09:12:29.2							
	e PP	Z	09:15:46.8							
	e PPP	Z	09:19:22.6							
	e PPPP	Z	09:22:08.0							
	e		09:24:47.2							
	e SKSP	N	09:26:05.2							
	e		09:28:01.6							
	e PPS	Z	09:28:59.7							
	e		09:30:34.8							
	e SS	N	09:35:43.8							
	e		09:36:42.2							
	e SSS	N	09:41:47.8							
	e L	Z	10:16:02.1			25.1	2297			
IBBN	e PKPdf	Z	09:11:38.2	158.1	11.1					
	e PKPab	Z	09:12:10.7							
BRG	e PKPdf	Z	09:11:39.1	158.3	26.2					
	e PKPab	Z	09:12:11.2							
MOX	e PKPdf	Z	09:11:39.2	159.1	21.2					
	e PKPab	Z	09:12:14.6							
WERD	e PKPdf	Z	09:11:39.1	159.1	23.0					
	e PKPab	Z	09:12:14.9							
GUNZ	e PKPdf	Z	09:11:40.2	159.2	23.1					
	e PKPab	Z	09:12:15.2							
NOTT	e PKPdf	Z	09:11:40.2	159.7	23.2					
	e PKPab	Z	09:12:17.5							
GRA1	e PKPdf	Z	09:11:40.1	160.1	21.2					

	e PKPab	Z	09:12:19.0					
	e L	Z	10:24:40.9			21.7	1457	5.8
GRFO	e PKPdf	Z	09:11:39.5	160.1	21.2			
TNS	e PKPab	Z	09:12:19.2	160.1	13.9			
WET	e PKPab	Z	09:12:19.8	160.1	25.8			
GEC2	e PKPdf	Z	09:11:40.2	160.2	28.1			
WLF	e PKPdf	Z	09:11:43.5	160.9	8.4			
STU	e PKPdf	Z	09:11:43.2	161.4	16.9			
FUR	e PKPab	Z	09:12:25.2	161.5	23.0			
BFO	e PKPab	Z	09:12:27.2	161.9	15.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	12:19: 1.9	33.100S	179.700E	420.0N				GSRC-M

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:38:57.2	161.3	31.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	13:09:29.8	35.212N	24.925E	4.0G	4.4			THE

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	13:13:20.8	16.5	143.1	1.5	58	4.5		
NOTT	e P	Z	13:13:30.8	17.3	142.6	2.1	52	4.3		
BRG	e P	Z	13:13:33.8	17.6	148.9	0.9	12	4.0		
GRA1	e P	Z	13:13:33.3	17.6	140.2	1.1	81	4.8		
WERD	e P	Z	13:13:36.6	17.8	144.2	1.9	60	4.4		
MOX	e P	Z	13:13:41.0	18.2	142.9	1.4	16	4.0		
CLL	e P	Z	13:13:42.1	18.2	147.4	0.8	15	4.2		
RUE	e P	Z	13:13:50.1	19.0	151.0	1.1	32	4.5		
TNS	e P	Z	13:13:53.7	19.2	135.2	0.6	20	4.5		
CLZ	e P	Z	13:13:56.7	19.6	142.3	1.1	15	4.1		
WLF	e P	Z	13:14:02.0	19.9	129.5	1.1	40	4.6		
NRDL	e P	Z	13:14:02.6	20.2	142.8	1.4	18	4.1		
BSEG	e P	Z	13:14:11.8	21.3	145.5	0.9	30	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	14:39:54.1	35.400N	72.290E	33.0N	5.5			SZGRF

Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:48:00.2	44.0	87.2	0.6	68	5.5		

	e	ScP		Z	14:53:17.9				
RUE	e	P		Z	14:47:59.9	44.0	88.8	0.9	93	5.5
	e	Pdiff		Z	14:53:18.1				
GEC2	e	P		Z	14:48:02.5	44.3	85.0	0.9	17	4.8
	e	ScP		Z	14:53:19.1				
CLL	i	P	+	Z	14:48:04.3	44.6	87.0	0.8	37	5.4
	e	pP		Z	14:48:49.4					
	e	sP		Z	14:49:15.0					
	i	PP		Z	14:49:49.2					
	e	pPP		Z	14:50:26.4					
	e	sPP		Z	14:50:53.4					
	e	ScP		Z	14:53:19.4			1.2	39	
	e	S		E	14:54:11.9					
	e	sS		E	14:55:27.4					
	e	SS		E	14:57:36.7					
	e	SSS		N	14:59:11.1					
	e	L		Z	15:08:46.3			15.7	410	
WET	e	P		Z	14:48:05.8	44.8	84.7	1.3	18	4.8
	e	ScP		Z	14:53:21.3					
GUNZ	e	P		Z	14:48:08.5	45.1	85.5	0.9	32	5.3
	e	ScP		Z	14:53:22.3					
WERD	e	P		Z	14:48:08.6	45.1	85.6	0.8	29	5.3
	e	ScP		Z	14:53:22.3					
NOTT	e	P		Z	14:48:10.3	45.2	84.8	0.9	42	5.4
	e	ScP		Z	14:53:23.1					
MOX	e	P		Z	14:48:12.1	45.5	85.3	0.7	36	5.5
	e	ScP		Z	14:53:23.9					
GRA1	e	P		Z	14:48:15.3	45.8	84.1	0.7	48	5.6
	e	ScP		Z	14:53:25.6					
FUR	e	P		Z	14:48:15.8	46.0	82.6	0.6	59	5.8
	e	ScP		Z	14:53:25.9					
BSEG	e	P		Z	14:48:16.9	46.1	87.5	0.8	83	5.8
	e	ScP		Z	14:53:26.4					
CLZ	e	P		Z	14:48:17.4	46.2	85.5	0.9	68	5.7
	e	ScP		Z	14:53:27.0					
NRDL	e	P		Z	14:48:18.3	46.3	86.0	0.8	54	5.6
	e	ScP		Z	14:53:27.5					
STU	e	P		Z	14:48:25.5	47.3	81.8	0.7	42	5.7
	e	ScP		Z	14:53:31.1					
TNS	e	P		Z	14:48:28.0	47.5	82.6	1.1	31	5.3
	e	ScP		Z	14:53:32.5					
IBBN	e	P		Z	14:48:29.4	47.7	84.0	0.8	95	6.0
	e	ScP		Z	14:53:33.4					
BFO	e	P		Z	14:48:30.2	47.9	80.9	0.7	13	5.2
	e	ScP		Z	14:53:33.7					
WLF	e	P		Z	14:48:40.2	49.1	80.6	0.9	56	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	16:22:17.1	31.000S	179.400W	190.0N				GSRC-M

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z	16:42:16.5	156.0	20.9					
NRDL	e PKP	Z	16:42:22.2	157.4	21.6					
CLL	e PKP	Z	16:42:24.0	157.7	29.0					
BRG	e PKP	Z	16:42:24.9	157.8	31.6					
CLZ	e PKP	Z	16:42:25.3	158.0	22.8					
IBBN	e PKP	Z	16:42:25.2	158.1	16.6					
WERD	e PKP	Z	16:42:28.7	158.7	28.6					
MOX	e PKP	Z	16:42:28.7	158.7	26.8					
GUNZ	e PKP	Z	16:42:29.4	158.8	28.7					
NOTT	e PKP	Z	16:42:31.8	159.3	29.0					
GEC2	e PKP	Z	16:42:32.7	159.6	33.9					
WET	e PKP	Z	16:42:32.7	159.6	31.6					
GRA1	e PKP	Z	16:42:33.6	159.7	27.1					
TNS	e PKP	Z	16:42:33.6	159.9	19.9					
FUR	e PKP	Z	16:42:39.2	161.0	29.2					
STU	e PKP	Z	16:42:38.9	161.1	23.3					
BFO	e PKP	Z	16:42:41.6	161.7	21.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	20:08:55.3	12.538N	84.818W	174.5	5.1			SZGRF

Nicaragua

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	20:21:07.5	81.1	278.9	1.1	22	5.1		
	e pP	Z	20:21:50.2							
IBBN	e pP	Z	20:21:53.1	81.7	279.7					
TNS	e P	Z	20:21:14.4	82.5	280.6	1.7	36	5.3		
	e pP	Z	20:21:57.7							
BFO	e P	Z	20:21:15.5	82.7	280.7	1.0	8	4.9		
	e pP	Z	20:21:58.6							
BSEG	e pP	Z	20:21:59.4	82.9	281.5					
NRDL	e P	Z	20:21:17.8	83.0	281.5	1.2	17	5.2		
	e pP	Z	20:22:00.2							
STU	e P	Z	20:21:18.5	83.2	281.3	1.5	27	5.3		
	e pP	Z	20:22:01.5							
CLZ	e P	Z	20:21:18.7	83.3	281.8	1.1	19	5.2		
	e pP	Z	20:22:01.7							
GRA1	e P	Z	20:21:24.4	84.3	282.7	1.4	32	5.4		
MOX	e P	Z	20:21:23.8	84.3	282.9	1.1	14	5.1		
	e pP	Z	20:22:07.3							
WERD	e P	Z	20:21:26.7	84.8	283.4	1.5	24	5.2		
	e pP	Z	20:22:09.7							

	NOTT	e	P		Z	20:21:27.0	84.9	283.4	1.1	11	5.0
		e	pP		Z	20:22:09.9					
	GUNZ	e	P		Z	20:21:26.9	84.9	283.5	1.1	17	5.2
		e	pP		Z	20:22:10.2					
	CLL	i	P	+	Z	20:21:27.1	85.0	283.9	1.3	21	5.2
		e				20:21:31.5					
		i				20:21:43.0					
		i	pP	+	Z	20:22:10.8			1.3	69	
		e	sP		Z	20:22:26.4					
		i	PP		Z	20:24:57.9			1.9	65	
		e	sPP		Z	20:25:51.6					
		e	S		E	20:31:47.2					
		e	SP		E	20:32:34.0					
		e	sS		E	20:32:51.7					
		e	PS		N	20:33:03.7					
		e	PPS		E	20:33:38.0					
		e				20:34:56.8					
		e				20:35:51.8					
		e	sSS		E	20:38:21.3					
		e	L		Z	20:54:07.9			14.5	311	
	RUE	e	pP		Z	20:22:10.9	85.2	284.4			
	WET	e	P		Z	20:21:29.9	85.5	284.0	1.4	27	5.2
		e	pP		Z	20:22:13.4					
	BRG	e	P		Z	20:21:30.8	85.7	284.7	1.4	13	4.9
		e	pP		Z	20:22:13.8					
	GEC2	e	P		Z	20:21:32.8	86.1	284.6	1.4	13	4.9
		e	pP		Z	20:22:15.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/23	22:53:32.1	4.850N	94.840E	33.0N	5.9	4.5		SZGRF

Off west coast of northern Sumatera, Indonesia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BRG	e P	Z	23:05:41.3	80.5	94.0	1.3	106	5.7		
	GEC2	e P	Z	23:05:41.7	80.5	93.5	0.9	196	6.1		
	RUE	e P	Z	23:05:42.2	80.7	94.1	1.1	229	6.1		
	WET	e P	Z	23:05:44.5	81.1	92.9	1.1	109	5.9		
	CLL	i P	+ Z	23:05:44.1	81.1	93.3	1.0	70	5.7		
		e pP	Z	23:05:56.7							
		i sP	Z	23:06:00.4							
		e PP	Z	23:08:54.5							
		e S	N	23:15:46.5							
		e sS	N	23:16:03.8							
		e PS	N	23:16:27.8							
		e		23:29:40.7							
		e L	Z	23:47:50.0			22.0	232			
	GUNZ	e P	Z	23:05:46.6	81.5	92.7	1.1	77	5.7		

WERD	e P	Z	23:05:46.5	81.5	92.7	1.2	66	5.7	
NOTT	e P	Z	23:05:47.5	81.6	92.4	1.0	45	5.6	
MOX	e P	Z	23:05:48.9	82.0	92.2	1.4	79	5.8	
FUR	e P	Z	23:05:49.4	82.1	91.6	0.9	81	6.0	
GRA1	e P	Z	23:05:50.6	82.2	91.7	1.1	161	6.2	
	e L	Z	23:48:56.6			20.0	199		4.5
GRFO	e P	Z	23:05:50.6	82.2	91.7	1.1	136	6.1	
CLZ	e P	Z	23:05:53.2	82.8	91.3	1.2	128	6.0	
BSEG	e P	Z	23:05:53.7	82.9	91.6	1.1	148	6.1	
NRDL	e P	Z	23:05:54.5	82.9	91.2	1.3	126	6.0	
STU	e P	Z	23:05:56.7	83.5	90.1	1.8	167	6.0	
TNS	e P	Z	23:05:59.5	84.0	89.7	1.1	89	5.9	
BFO	e P	Z	23:05:59.4	84.1	89.4	0.9	64	5.8	
IBBN	e P	Z	23:06:01.6	84.4	89.3	1.3	172	6.1	
BUG	e P	Z	23:06:03.1	84.7	88.9	1.2	144	6.1	
WLF	e P	Z	23:06:07.4	85.5	87.9	1.3	101	5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	06:15:47.9	2.420S	99.440E	33.0G	5.0			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	06:28:39.7	89.0	94.8	1.4	12	5.0		
BRG	e P	Z	06:28:39.8	89.0	95.0	1.2	9	4.9		
RUE	e P	Z	06:28:40.8	89.3	94.9	1.2	42	5.5		
WET	e P	Z	06:28:42.0	89.6	94.2	1.4	11	4.9		
GUNZ	e P	Z	06:28:44.6	90.0	93.8	1.3	10	4.9		
WERD	e P	Z	06:28:44.4	90.0	93.8	1.2	8	4.8		
MOX	e P	Z	06:28:46.7	90.5	93.2	1.3	6	4.7		
GRA1	e P	Z	06:28:47.6	90.7	92.9	1.3	14	5.2		
CLZ	e P	Z	06:28:50.2	91.3	92.2	1.4	15	5.1		
TNS	e P	Z	06:28:56.0	92.5	90.8	1.1	8	5.0		
BFO	e P	Z	06:28:56.0	92.5	90.8	1.0	5	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	07:50:49.1	15.600S	173.400W					GSRC-M

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKP	Z	08:10:15.1	144.8	9.6					
GUNZ	e PKP	Z	08:10:15.5	144.9	9.6					
NOTT	e PKP	Z	08:10:17.1	145.5	9.4					
GRA1	e PKP	Z	08:10:17.9	145.7	7.9					
WLF	e PKP	Z	08:10:19.3	145.9	359.2					
FUR	e PKP	Z	08:10:22.2	147.2	8.3					

	BFO	e	PKP		Z	08:10:22.4	147.2	3.1				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	15:42:11.2	8.460N	92.080E	33.0G	6.7	7.5		SZGRF

Nicobar Islands, India, region

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z	15:53:55.6	76.0	93.8	1.2	788	6.7		
RUE	e	P	Z	15:53:56.3	76.2	94.1	1.1	1387	7.0		
	e	S	R	16:03:36.4							
WET	e	P	Z	15:53:58.8	76.6	92.6	1.9	1541	6.8		
	e	S	R	16:03:43.7							
CLL	i	P	- Z	15:53:58.5	76.6	93.2	1.3	684	6.6		
	i	Pm	Z	15:54:03.3			1.3	684			
	i	pP	Z	15:54:09.4							
	i	sP	Z	15:54:12.1							
	i			15:54:20.0							
	e	PP	Z	15:56:57.8							
	e	PPP	Z	15:58:47.5							
	e	S	E	16:03:42.2							
	e	PS	E	16:04:21.3							
	e			16:07:20.2							
	e	SS	E	16:08:54.4							
	e	SSS	E	16:12:29.9							
	e	PKPPKPdf	Z	16:21:16.7							
	e	SKPPKPdf	Z	16:24:44.5							
	e	L	Z	16:32:51.6			20.0	253741			
GUNZ	e	P	Z	15:54:01.1	77.0	92.5	1.2	661	6.6		
WERD	e	P	Z	15:54:01.1	77.0	92.5	1.1	478	6.5		
NOTT	e	P	Z	15:54:01.9	77.1	92.2	1.3	740	6.7		
	e	S	R	16:03:49.6							
MOX	e	P	Z	15:54:03.7	77.4	92.0	1.8	1356	6.8		
FUR	e	P	Z	15:54:04.1	77.6	91.2	1.8	1837	6.9		
GRA1	e	P	Z	15:54:05.4	77.7	91.4	1.1	1021	6.9		
	e	PKPPKP	Z	16:21:01.0							
	e	L	Z	16:34:48.1			19.1	215764		7.5	
GRFO	e	P	Z	15:54:05.4	77.7	91.4	1.1	886	6.8		
	e	S	R	16:03:56.0							
BSEG	e	P	Z	15:54:08.8	78.3	91.6	1.2	864	6.7		
STU	e	P	Z	15:54:11.8	79.0	89.7	1.4	766	6.6		
TNS	e	P	Z	15:54:15.0	79.4	89.4	1.1	466	6.3		
	e	S	R	16:04:15.6							
BFO	e	P	Z	15:54:14.9	79.5	89.0	1.4	732	6.4		
	e	S	R	16:04:13.3							
HLG	e	S	R	16:04:19.3	79.8	89.7					
IBBN	e	P	Z	15:54:17.0	79.8	89.3	1.9	2068	6.7		
	e	S	R	16:04:20.0							

BUG	e P	Z	15:54:18.4	80.2	88.7	1.9	1540	6.6
WLF	e P	Z	15:54:23.1	80.9	87.6	1.8	1533	6.7
	e S	R	16:04:32.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	15:54:32.8	8.364N	93.053E	33.0N	5.4			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:06:30.3	78.4	90.8	1.3	40	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	16:00:16.7	10.102N	93.630E	32.5	5.3			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:12:09.0	77.4	89.2	1.3	33	5.3		
	e pP	Z	16:12:18.3			1.3	33			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	16:11:44.8	8.980N	93.009E	33.0N	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:23:39.6	77.9	90.4	1.0	14	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	16:14:31.2	1.113N	96.469E	33.0N	4.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:27:09.0	86.1	92.9	0.8	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	17:10:10.5	9.793N	92.896E	31.3	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:22:01.4	77.2	89.9	1.1	17	5.1		

		e pP	Z	17:22:10.4				1.1		17		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	17:28:24.2	8.190N	91.870E	33.0N	5.0			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:40:09.2	76.0	94.2	1.0	12	5.0		
GEC2	e P	Z	17:40:09.3	76.1	93.5	0.9	15	5.1		
RUE	e P	Z	17:40:10.4	76.3	94.4	1.0	36	5.5		
WET	e P	Z	17:40:12.6	76.6	92.9	1.0	12	4.9		
CLL	e P	Z	17:40:12.4	76.7	93.5	1.1	14	5.0		
GUNZ	e P	Z	17:40:14.8	77.0	92.8	1.1	14	5.0		
WERD	e P	Z	17:40:15.1	77.1	92.8	1.0	12	5.0		
NOTT	e P	Z	17:40:15.6	77.1	92.5	1.0	8	4.8		
MOX	e P	Z	17:40:17.4	77.5	92.3	1.4	16	5.0		
GRA1	e P	Z	17:40:19.0	77.7	91.8	1.0	23	5.3		
CLZ	e P	Z	17:40:22.0	78.3	91.6	0.9	15	5.1		
BSEG	e P	Z	17:40:22.5	78.4	92.0	1.0	15	5.1		
NRDL	e P	Z	17:40:23.1	78.5	91.5	1.2	12	4.8		
STU	e P	Z	17:40:25.8	79.0	90.1					
TNS	e P	Z	17:40:28.8	79.5	89.8	1.0	11	4.7		
BFO	e P	Z	17:40:28.8	79.6	89.3	1.0	10	4.7		
BUG	e P	Z	17:40:32.5	80.2	89.1	1.0	15	4.9		
WLF	e P	Z	17:40:36.6	81.0	87.9	1.2	17	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	17:38:16.1	4.649N	95.241E	33.0N	4.5			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:50:36.2	82.6	91.5	1.1	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	17:38:51.8	0.556N	98.299E	31.8	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:51:37.4	87.7	91.9	1.0	5	4.8		
	e pP	Z	17:51:46.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	18:06: 0.3	40.040N	64.680E	27.3	4.8			SZGRF

Northwestern Uzbekistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:13:02.2	36.4	87.1	0.6	32	5.2		
RUE	e P	Z	18:13:01.8	36.5	89.1	1.2	40	5.0		
GEC2	e P	Z	18:13:04.3	36.7	84.2	1.4	16	4.6		
CLL	e P	Z	18:13:06.8	37.0	87.0	0.7	26	5.1		
WET	e P	Z	18:13:09.4	37.2	84.0	1.1	10	4.5		
GUNZ	e P	Z	18:13:11.4	37.5	85.3	0.9	11	4.6		
WERD	e P	Z	18:13:11.3	37.5	85.4	0.8	12	4.7		
NOTT	e P	Z	18:13:12.9	37.6	84.4	1.1	25	4.8		
MOX	e P	Z	18:13:14.9	37.9	85.1	1.4	26	4.8		
GRA1	e P	Z	18:13:18.3	38.2	83.6	1.4	102	5.4		
	e pP	Z	18:13:25.6							
FUR	e P	Z	18:13:19.0	38.4	81.8	0.9	33	5.0		
BSEG	e P	Z	18:13:20.0	38.5	88.3	1.2	34	4.8		
CLZ	e P	Z	18:13:20.4	38.6	85.7	1.2	20	4.6		
NRDL	e P	Z	18:13:21.8	38.7	86.4	1.2	24	4.7		
TNS	e P	Z	18:13:31.9	39.9	82.4	0.9	7	4.3		
BFO	e P	Z	18:13:34.3	40.3	80.1	1.2	28	4.8		
WLF	e P	Z	18:13:44.9	41.5	80.3	1.1	40	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	18:25:54.7	8.813N	92.655E	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	18:37:48.8	77.8	90.8	1.2	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	19:21:34.1	7.734N	92.726E	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	19:33:33.0	78.6	91.4	1.1	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	19:39: 1.9	7.483N	92.782E	33.0N	4.5			SZGRF

Nicobar Islands, India, region

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

GRA1	e P	Z	19:51:02.1	78.8	91.6	0.8	4	4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/24	21:29:17.9	8.506N	92.715E	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	21:41:13.6	78.0	90.9	1.2	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	02:17: 4.3	6.110N	93.120E	33.3	5.5			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:29:02.7	78.4	94.5	0.9	40	5.6		
GEC2	e P	Z	02:29:02.9	78.4	93.9	0.9	53	5.7		
RUE	e P	Z	02:29:04.2	78.7	94.7	0.8	101	5.9		
CLL	e P	Z	02:29:06.2	79.1	93.9	1.1	36	5.3		
	e		02:29:10.5							
	i pP	Z	02:29:14.8			1.1	36			
	e L	Z	03:08:05.0			20.0	170		4.4	
GUNZ	e P	Z	02:29:08.3	79.4	93.2	0.9	35	5.4		
WERD	e P	Z	02:29:08.7	79.4	93.2	0.9	33	5.3		
MOX	e P	Z	02:29:10.9	79.9	92.7	0.9	25	5.1		
FUR	e P	Z	02:29:11.3	80.0	92.0	0.8	32	5.3		
GRA1	e P	Z	02:29:12.6	80.1	92.2	1.0	75	5.6		
	e pP	Z	02:29:22.2							
CLZ	e P	Z	02:29:15.3	80.7	91.9	0.9	50	5.5		
BSEG	e P	Z	02:29:15.9	80.8	92.2	1.0	62	5.6		
NRDL	e P	Z	02:29:17.2	80.9	91.8	1.3	46	5.3		
TNS	e P	Z	02:29:22.0	81.9	90.2	0.9	29	5.4		
BFO	e P	Z	02:29:22.1	82.0	89.8	1.1	34	5.4		
BUG	e P	Z	02:29:24.6	82.6	89.4	1.1	44	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	03:26:19.2	8.200N	91.590E	35.5	5.4	5.2		SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:38:02.6	75.9	94.4	1.3	39	5.4		
GEC2	e P	Z	03:38:02.7	75.9	93.7	1.0	31	5.4		
RUE	e P	Z	03:38:03.5	76.1	94.7	0.8	50	5.7		
CLL	e P	Z	03:38:04.9	76.5	93.8	1.5	45	5.4		

	i pP	Z	03:38:16.3						
	e PP	Z	03:40:56.9						
	e PPP	Z	03:42:53.6						
	e S	N	03:47:51.8						
	e SS	N	03:52:52.7						
	e SSS	N	03:56:18.9						
	e L	Z	04:15:09.5			22.6	957		
GUNZ	e P	Z	03:38:08.2	76.8	93.0	1.2	35	5.4	
WERD	e P	Z	03:38:08.1	76.9	93.0	1.2	27	5.3	
MOX	e P	Z	03:38:10.8	77.3	92.5	0.8	19	5.3	
FUR	e P	Z	03:38:11.2	77.4	91.7	0.7	33	5.6	
GRA1	e P	Z	03:38:12.4	77.5	92.0	1.0	52	5.6	
	e pP	Z	03:38:22.6						
	e S	N	03:48:05.3						
	e SS	N	03:53:09.8						
	e L	Z	04:18:47.5			18.3	1006		5.2
CLZ	e P	Z	03:38:15.2	78.1	91.8	1.1	34	5.4	
BSEG	e P	Z	03:38:15.8	78.2	92.2	1.2	55	5.6	
NRDL	e P	Z	03:38:16.5	78.3	91.7	1.7	85	5.6	
STU	e P	Z	03:38:18.8	78.8	90.3				
TNS	e P	Z	03:38:21.9	79.3	90.0	1.1	27	5.2	
BFO	e P	Z	03:38:22.0	79.4	89.5	1.2	28	5.2	
IBBN	e P	Z	03:38:24.1	79.8	89.8	1.3	56	5.3	
BUG	e P	Z	03:38:25.7	80.1	89.3	0.9	20	5.1	
WLF	e P	Z	03:38:30.3	80.8	88.1	1.5	62	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	04:38:15.3	36.520N	21.760E	33.0N	4.4			SZGRF

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:41:53.4	15.2	146.0	1.2	44			
BFO	e P	Z	04:41:55.0	15.4	135.2					
BRG	e P	Z	04:41:55.4	15.4	155.7					
GUNZ	e P	Z	04:41:56.0	15.4	150.3					
WERD	e P	Z	04:41:56.5	15.5	150.4					
MOX	e P	Z	04:42:00.0	15.9	148.9					
CLL	e P	Z	04:42:02.5	16.0	153.7					
TNS	e P	Z	04:42:10.3	16.7	140.0					
RUE	e P	Z	04:42:12.5	16.9	157.5					
CLZ	e P	Z	04:42:16.8	17.3	147.8					
WLF	e P	Z	04:42:16.9	17.3	133.4	1.6	62			
NRDL	e P	Z	04:42:21.1	18.0	148.2	1.1	10			
BSEG	e P	Z	04:42:36.3	19.1	150.9	1.1	29	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	04:31:29.0	4.000S	151.900E	242.0N				NEIR-M

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:49:58.0	123.5	49.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	08:50: 0.9	5.323N	94.986E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:02:17.6	81.9	91.3	1.5	11	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	12:43:22.9	4.352N	94.641E	33.0N	5.5	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	12:55:42.2	82.4	92.2	0.9	35	5.5		
	e L	Z	13:35:41.2			19.2	541		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	15:43:44.6	47.600N	124.710E	33.0N	5.3			SZGRF

Northeastern China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	15:54:16.0	64.0	44.5	0.9	20	5.3		
BSEG	e P	Z	15:54:18.8	64.3	42.9	1.4	22	5.2		
BRG	e P	Z	15:54:22.8	65.0	44.1	1.1	16	5.1		
CLL	e P	Z	15:54:23.0	65.1	43.7	1.0	16	5.2		
NRDL	e P	Z	15:54:25.8	65.5	42.4	1.4	25	5.2		
CLZ	e P	Z	15:54:28.6	65.9	42.3	1.9	63	5.5		
WERD	e P	Z	15:54:29.5	66.1	43.0	1.1	15	5.1		
GUNZ	e P	Z	15:54:29.9	66.1	43.0	1.0	15	5.2		
MOX	e P	Z	15:54:31.0	66.2	42.7	1.9	50	5.4		
GEC2	e P	Z	15:54:33.3	66.6	43.3	1.3	16	5.1		
GRA1	e P	Z	15:54:36.5	67.1	42.2	1.0	39	5.6		
BUG	e P	Z	15:54:38.4	67.4	40.4	1.2	23	5.3		
TNS	e P	Z	15:54:41.2	67.9	40.8	1.5	19	5.1		
FUR	e P	Z	15:54:43.9	68.2	41.8	1.1	44	5.6		
STU	e P	Z	15:54:45.8	68.7	40.8	1.3	24	5.3		
BFO	e P	Z	15:54:50.1	69.4	40.2	1.2	31	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	16:02:16.6	70.370N	7.010W	33.0N	5.5	4.5		SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	16:06:48.2	20.0	346.0	1.7	520	5.5		
CLZ	e P	Z	16:06:49.9	20.2	343.1	1.2	79	4.8		
RUE	e P	Z	16:06:52.0	20.2	339.8	1.2	263	5.4		
CLL	e P	Z	16:07:00.5	21.2	341.4	1.3	238	5.4		
	e S	N	16:11:07.3							
	e L	Z	16:15:24.9			18.0	1409		4.4	
TNS	e P	Z	16:07:03.2	21.4	345.8	0.7	60	5.0		
MOX	e P	Z	16:07:04.0	21.5	343.0	1.2	237	5.5		
BRG	e P	Z	16:07:06.1	21.8	341.1	1.3	158	5.3		
WERD	e P	Z	16:07:07.5	21.9	342.6	1.2	340	5.7		
GUNZ	e P	Z	16:07:07.5	21.9	342.7	1.3	399	5.7		
GRA1	e P	Z	16:07:13.9	22.4	344.0	1.3	536	5.8		
	e L	Z	16:17:06.6			18.2	1757		4.5	
STU	e P	Z	16:07:19.4	22.9	346.1	1.3	234	5.5		
GEC2	e P	Z	16:07:26.4	23.7	342.8	1.2	252	5.6		
FUR	e P	Z	16:07:28.6	23.9	344.9	1.4	314	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	16:02:19.1	3.788N	95.906E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:14:44.9	83.7	91.6	1.4	17	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/25	21:32:11.3	37.745N	66.898E	33.0N	4.2			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:39:51.2	41.0	85.1	1.2	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	00:55:44.6	2.340N	94.160E	33.0N	4.9			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	01:08:01.5	82.0	95.7	1.1	6	4.7		
BRG	e P	Z	01:08:01.3	82.0	96.1	1.7	14	4.8		
RUE	e P	Z	01:08:02.5	82.3	96.2	0.5	7	5.0		
GUNZ	e P	Z	01:08:06.9	83.0	94.8	1.1	5	4.7		
GRA1	e P	Z	01:08:10.6	83.7	93.9	1.2	21	5.2		
CLZ	e P	Z	01:08:13.6	84.3	93.4	1.0	6	4.8		
BSEG	e P	Z	01:08:14.4	84.5	93.6	1.0	2	4.4		
NRDL	e P	Z	01:08:14.8	84.5	93.3	1.5	9	4.8		
BFO	e P	Z	01:08:18.7	85.5	91.6	2.0	38	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	01:39:12.7	4.676N	95.180E	33.0N	5.3			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:51:32.6	82.5	91.6	2.2	49	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	03:32:16.5	39.744N	12.524E	491.3				SZGRF

Tyrrhenian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e P	Z	03:34:01.7	6.9	193.0					
	e S	N	03:35:26.7							
KBA	e P	Z	03:34:06.8	7.4	184.9					
WTTA	e P	Z	03:34:09.0	7.5	174.8					
	e S	E	03:35:39.2							
DAVA	e P	Z	03:34:10.3	7.8	164.8					
	e S	N	03:35:42.3							
ARSA	e P	Z	03:34:11.2	7.8	197.2					
MOA	e P	Z	03:34:14.9	8.2	189.4					
FUR	e P	Z	03:34:17.8	8.5	173.5					
BFO	e P	Z	03:34:23.6	9.1	159.2					
GEC2	e P	Z	03:34:24.6	9.1	185.7					
STU	e P	Z	03:34:27.3	9.3	164.0					
GRA1	e P	Z	03:34:34.2	10.0	174.2					
GUNZ	e P	Z	03:34:40.9	10.6	179.2					
WERD	e P	Z	03:34:41.6	10.7	179.1					
TNS	e P	Z	03:34:43.4	10.9	163.1					
WLF	e P	Z	03:34:43.8	10.9	153.2					
MOX	e P	Z	03:34:43.7	10.9	176.3					
BRG	e P	Z	03:34:46.2	11.2	185.6					
CLL	e P	Z	03:34:50.6	11.6	181.8					
CLZ	e P	Z	03:34:57.0	12.2	172.1					

	BUG	e	P		Z	03:34:58.8	12.3	160.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	04:08:39.8	45.890N	112.850W	15.9	5.8	5.4		SZGRF

Montana, United States

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	P	Z	04:19:47.2	69.1	321.4	1.0	148	6.2		
IBBN	e	P	Z	04:19:48.8	69.4	320.2	1.0	170	6.1		
RGN	e	P	Z	04:19:51.0	69.7	323.2	0.9	97	5.9		
BUG	e	P	Z	04:19:51.3	69.9	320.1	1.0	92	5.8		
NRDL	e	P	Z	04:19:53.6	70.2	321.6	1.0	87	5.8		
CLZ	e	P	Z	04:19:57.7	70.8	321.9	1.0	93	5.9		
WLF	e	P	Z	04:19:57.4	70.8	319.9	1.0	92	5.9		
TNS	e	P	Z	04:20:00.3	71.3	321.1	1.1	55	5.6		
RUE	e	P	Z	04:20:01.6	71.5	323.9	0.7	59	5.8		
CLL	i	P	- Z	04:20:05.5	72.2	323.7	0.9	70	5.8		
	i			04:20:09.9							
	e	PP	Z	04:22:42.6							
	e	PPP	Z	04:24:32.1							
	e	S	E	04:29:31.6							
	e	SS	N	04:34:40.3							
	e	SSS	E	04:37:42.3							
	e	LR	Z	04:43:30.5							
	e	L	Z	04:49:57.3			20.0	1164		5.2	
MOX	e	P	Z	04:20:05.8	72.2	322.9	1.1	61	5.6		
WERD	e	P	Z	04:20:08.1	72.6	323.4	1.0	46	5.6		
GUNZ	e	P	Z	04:20:08.7	72.7	323.4	0.9	52	5.7		
BFO	e	P	Z	04:20:08.6	72.7	321.4	1.0	69	5.8		
STU	e	P	Z	04:20:09.0	72.7	321.8					
GRA1	e	P	Z	04:20:09.9	72.8	322.9	2.9	765	6.3		
	e	pP	Z	04:20:14.5							
	e	L	Z	04:51:49.8			21.1	2197		5.4	
BRG	e	P	Z	04:20:09.9	72.9	324.3	1.0	53	5.6		
FUR	e	P	Z	04:20:17.2	74.1	323.2	1.0	70	5.6		
GEC2	e	P	Z	04:20:19.0	74.5	324.5	1.0	45	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	05:14:45.5	34.030N	142.530E	38.6	5.5			SZGRF

Off east coast of Honshu, Japan

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	P	Z	05:27:07.3	82.7	40.7					
BSEG	e	P	Z	05:27:08.3	82.8	38.2					
BRG	e	P	Z	05:27:13.0	83.8	40.7	0.9	21	5.3		

	e pP	Z	05:27:24.2						
CLL	e P	Z	05:27:12.9	83.9	40.0	1.0	39	5.6	
NRDL	e P	Z	05:27:14.3	84.1	38.0	1.8	48	5.4	
CLZ	e P	Z	05:27:16.6	84.5	38.1	1.5	66	5.7	
WERD	e P	Z	05:27:18.0	84.8	39.4	1.9	55	5.5	
GUNZ	e P	Z	05:27:18.3	84.9	39.5	1.8	72	5.6	
MOX	e P	Z	05:27:18.6	84.9	39.0	1.9	68	5.6	
IBBN	e P	Z	05:27:19.2	85.1	36.2	1.2	65	5.7	
GEC2	e P	Z	05:27:20.9	85.4	40.4				
GRA1	e P	Z	05:27:23.5	85.8	38.6	1.5	59	5.5	
BUG	e P	Z	05:27:23.3	85.9	35.8	1.1	32	5.3	
TNS	e P	Z	05:27:26.3	86.5	36.6	1.2	15	5.0	
FUR	e P	Z	05:27:29.0	87.0	38.6	0.4	14	5.4	
STU	e P	Z	05:27:30.5	87.4	37.1				
WLF	e P	Z	05:27:33.1	87.8	34.9	1.8	63	5.6	
BFO	e P	Z	05:27:33.7	88.1	36.5	1.7	36	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	06:20:27.6	33.680N	142.910E	38.2	5.2			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	06:32:51.2	83.1	40.6	0.7	18	5.4		
BSEG	e P	Z	06:32:52.1	83.3	38.1	1.1	18	5.2		
BRG	e P	Z	06:32:56.7	84.3	40.6	0.7	15	5.3		
	e pP	Z	06:33:07.8							
CLL	e P	Z	06:32:56.7	84.3	39.9	0.9	26	5.5		
NRDL	e P	Z	06:32:58.1	84.5	37.8	1.6	32	5.3		
CLZ	e P	Z	06:33:00.5	84.9	38.0	0.9	23	5.4		
WERD	e P	Z	06:33:01.8	85.3	39.3	1.5	24	5.1		
GUNZ	e P	Z	06:33:02.2	85.3	39.4	1.0	12	5.0		
MOX	e P	Z	06:33:02.4	85.4	38.8	1.0	12	5.0		
IBBN	e P	Z	06:33:03.1	85.5	36.1	0.8	30	5.5		
GEC2	e P	Z	06:33:04.8	85.9	40.3	1.1	5	4.6		
GRA1	e P	Z	06:33:07.3	86.3	38.5	0.9	19	5.2		
BUG	e P	Z	06:33:07.2	86.4	35.7	0.8	14	5.2		
TNS	e P	Z	06:33:10.1	86.9	36.5	0.8	7	4.8		
FUR	e P	Z	06:33:12.8	87.5	38.5	0.4	26	5.9		
BFO	e P	Z	06:33:17.5	88.5	36.4	0.8	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	06:32:16.9	8.990N	91.120E	33.0N	5.2	4.7		SZGRF

Nicobar Islands, India, region

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

BRG	e P	Z	06:43:55.4	75.0	94.2	1.3	27	5.1	
GEC2	e P	Z	06:43:55.6	75.0	93.5	1.4	32	5.2	
RUE	e P	Z	06:43:56.3	75.2	94.5	1.6	88	5.5	
CLL	e P	Z	06:43:58.4	75.6	93.6	1.3	23	5.1	
GUNZ	e P	Z	06:44:01.1	75.9	92.8	1.1	19	5.1	
WERD	e P	Z	06:44:01.0	76.0	92.9	1.1	19	5.1	
MOX	e P	Z	06:44:03.6	76.4	92.4	1.3	26	5.2	
FUR	e P	Z	06:44:04.0	76.6	91.5	1.0	22	5.3	
GRA1	e P	Z	06:44:05.3	76.6	91.8	1.1	43	5.5	
	e L	Z	07:22:15.7			20.3	378		4.7
CLZ	e P	Z	06:44:08.1	77.2	91.7	1.1	28	5.3	
BSEG	e P	Z	06:44:08.7	77.3	92.1	1.0	30	5.4	
NRDL	e P	Z	06:44:09.4	77.4	91.6	1.4	29	5.2	
TNS	e P	Z	06:44:14.9	78.4	89.8	1.0	18	5.2	
BFO	e P	Z	06:44:14.9	78.5	89.3	1.1	16	5.0	
IBBN	e P	Z	06:44:17.3	78.8	89.7				
BUG	e P	Z	06:44:18.7	79.2	89.1	1.0	25	5.2	
WLF	e P	Z	06:44:23.3	79.9	88.0	1.2	30	5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	07:41:13.2	34.640N	141.590E	37.0	5.1			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:53:31.3	82.0	38.6	0.6	7	4.9		
BRG	e P	Z	07:53:35.8	82.9	41.0	0.8	6	4.9		
CLL	e P	Z	07:53:35.9	82.9	40.4	1.1	16	5.2		
CLZ	e P	Z	07:53:39.6	83.6	38.5	1.2	23	5.3		
WERD	e P	Z	07:53:40.4	83.9	39.8	1.4	12	4.9		
GUNZ	e P	Z	07:53:41.3	83.9	39.8	1.6	21	5.1		
MOX	e P	Z	07:53:41.6	84.0	39.3	1.7	25	5.2		
GEC2	e P	Z	07:53:44.7	84.5	40.7					
GRA1	e P	Z	07:53:46.5	84.9	39.0	1.1	19	5.2		
	e pP	Z	07:53:57.2							
BUG	e P	Z	07:53:47.1	85.1	36.2					
TNS	e P	Z	07:53:49.3	85.6	37.0	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	07:55:19.5	1.144N	96.634E	26.0	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	08:07:57.7	86.2	92.8	1.2	10	4.8		
	e pP	Z	08:08:05.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	09:09:36.3	35.105N	141.682E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:22:06.5	84.5	38.7	0.8	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	10:31:15.6							
	e		10:31:24.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	12:11:49.6	52.840N	159.998E	38.3	4.8			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:23:23.1	74.1	19.0	0.9	8	4.8		
	e pP	Z	12:23:34.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	12:16:21.0	43.460N	102.110E	19.1	5.2			SZGRF

Mongolia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:26:05.5	56.8	60.2	0.9	14	5.0		
	e PcP	Z	12:27:00.3							
CLL	e P	Z	12:26:07.2	57.0	59.9	0.6	29	5.5		
BSEG	e P	Z	12:26:08.5	57.1	59.7	0.9	22	5.2		
WERD	e P	Z	12:26:13.3	57.9	59.0	0.9	10	4.9		
	e PcP	Z	12:27:05.2							
GUNZ	e P	Z	12:26:13.7	57.9	59.0	0.9	14	5.0		
	e PcP	Z	12:27:05.1							
GEC2	e P	Z	12:26:13.9	57.9	58.9	0.9	10	4.8		
	e PcP	Z	12:27:05.3							
NRDL	e P	Z	12:26:14.6	58.0	58.8	1.7	63	5.4		
	e PcP	Z	12:27:05.7							
MOX	e P	Z	12:26:15.3	58.1	58.7	0.9	16	5.0		
	e PcP	Z	12:27:05.3							

CLZ	e P	Z	12:26:15.9	58.2	58.6	0.9	24	5.2
WET	e P	Z	12:26:16.2	58.2	58.6	1.0	15	5.0
GRA1	e P	Z	12:26:20.8	58.9	58.0	0.8	30	5.4
	e pP	Z	12:26:26.2					
FUR	e P	Z	12:26:26.1	59.6	57.3	0.8	45	5.5
BUG	e P	Z	12:26:28.2	60.0	56.6	1.5	56	5.4
TNS	e P	Z	12:26:28.7	60.1	56.7	1.8	44	5.2
BFO	e P	Z	12:26:36.0	61.2	55.8	0.9	13	4.8
WLF	e P	Z	12:26:39.9	61.6	55.2	1.0	16	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	12:17:13.4	52.780N	159.950E	33.0N	5.8			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	12:28:20.1	69.2	20.9	0.9	212	6.3		
BSEG	e P	Z	12:28:27.2	70.3	18.9	0.9	110	6.0		
RUE	e P	Z	12:28:30.9	71.0	20.9	0.9	117	6.0		
NRDL	e P	Z	12:28:35.3	71.7	18.7	0.9	74	5.8		
CLL	i P	+ Z	12:28:38.1	72.3	20.3	0.9	98	5.9		
	i pP	Z	12:28:45.6							
	i PP	Z	12:31:18.8							
	e PPP	Z	12:33:04.2							
	i S	N	12:37:54.8							
	e SS	N	12:42:39.4							
	e SSS	E	12:46:00.5							
	e LR	Z	12:53:44.3							
	e L	Z	13:03:09.3			22.0	2788		5.5	
CLZ	e P	Z	12:28:39.2	72.3	18.8	1.1	146	6.0		
IBBN	e P	Z	12:28:39.1	72.4	17.2	0.8	176	6.2		
BRG	e P	Z	12:28:39.4	72.5	20.8	1.0	35	5.4		
MOX	e P	Z	12:28:44.0	73.2	19.4	0.9	57	5.6		
WERD	e P	Z	12:28:44.3	73.2	19.8	1.0	59	5.6		
BUG	e P	Z	12:28:44.3	73.3	16.8	0.9	104	5.9		
GUNZ	e P	Z	12:28:44.8	73.3	19.8	0.9	56	5.6		
GRA1	i P	Z	12:28:50.2	74.2	19.0	0.9	142	6.0		
TNS	e P	Z	12:28:50.1	74.2	17.5	0.9	64	5.7		
WET	e P	Z	12:28:51.1	74.3	20.0	0.8	51	5.6		
GEC2	e P	Z	12:28:51.2	74.4	20.4	0.9	33	5.4		
WLF	e P	Z	12:28:55.9	75.2	16.0	1.2	70	5.7		
STU	e P	Z	12:28:57.1	75.5	17.8	0.6	34	5.6		
FUR	e P	Z	12:28:58.2	75.6	18.9	0.9	88	5.9		
BFO	e P	Z	12:29:00.4	76.1	17.2	0.9	52	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2005/07/26

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	13:10:13.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	14:11:36.3	15.336S	72.969W	111D	5.2			NEIR-M

Southern Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pdiff	Z	14:24:49.0	95.8	253.4	2.8	204			
	e pP	Z	14:25:18.4							
	e SKSac	E	14:35:18.7							
	e S	Z	14:35:56.8							
	e SP	Z	14:37:17.0							
	e SS	E	14:42:30.2							
	e LR	Z	14:57:00.2							
	e L	Z	15:03:52.5			22.0	646		5.1	
BUG	e Pdiff	Z	14:24:50.5	96.0	252.9	1.3	95			
	e pP	Z	14:25:20.3							
	e SKSac	E	14:35:19.9							
	e S	E	14:35:57.2							
	e SP	Z	14:37:18.0							
	e LR	Z	14:57:26.3							
	e L	Z	15:06:39.0			20.0	841		5.2	
TNS	e Pdiff	Z	14:24:52.3	96.4	253.7	1.2	54			
	e pP	Z	14:25:21.5							
	e pPP	Z	14:29:11.2							
	e SKSac	E	14:35:20.7							
	e Sdiff	E	14:36:02.4							
	e SP	Z	14:37:25.4							
	e SS	E	14:42:40.1							
	e LR	Z	14:56:43.2							
	e L	Z	15:06:53.7			20.0	945		5.3	
STU	e Pdiff	Z	14:24:52.7	96.4	254.1	1.1	55			
	e pP	Z	14:25:21.9							
	e SKSac	E	14:35:21.8							
	e Sdiff	E	14:36:01.3							
	e SP	Z	14:37:26.5							
	e SS	E	14:42:41.7							
	e LR	Z	14:57:21.3							
	e L	Z	15:04:13.0			22.0	554		5.0	
IBBN	e Pdiff	Z	14:24:53.2	96.5	253.4	1.1	88			
	e pP	Z	14:25:22.3							
	e pPP	Z	14:29:11.9							
	e SP	Z	14:37:26.6							
	e LR	Z	14:57:11.9							

	e L	Z	15:06:44.9			20.0	787	5.2
HLG	e SP	Z	14:37:32.7	97.1	253.7			
	e LR	Z	14:57:48.9					
	e L	Z	15:07:13.7			18.0	1357	5.5
FUR	e Pdiff	Z	14:24:58.2	97.6	255.5	1.0	78	
	e pP	Z	14:25:27.3					
	e SKSac	E	14:35:28.5					
	e Sdiff	E	14:36:14.1					
	e SP	Z	14:37:38.9					
	e LR	Z	14:57:52.1					
	e L	Z	15:09:03.2			22.0	554	5.0
GRFO	e Pdiff	Z	14:24:59.9	97.9	255.7	1.2	48	
	e pP	Z	14:25:28.6					
	e SKSac	E	14:35:32.3					
	e Sdiff	E	14:36:17.0					
	e SP	Z	14:37:41.8					
	e SS	N	14:43:00.8					
	e LR	Z	14:58:08.9					
	e L	Z	15:07:08.8			20.0	520	5.0
CLZ	e Pdiff	Z	14:25:00.0	98.0	255.3	1.2	74	
	e pP	Z	14:25:28.7					
	e pPP	Z	14:29:22.6					
	e SKSac	E	14:35:31.4					
	e Sdiff	E	14:36:16.4					
	e SP	Z	14:37:41.3					
	e SS	E	14:43:05.1					
	e LR	Z	14:59:21.7					
	e L	Z	15:07:51.6			20.0	826	5.2
NRDL	e Pdiff	Z	14:25:00.0	98.0	255.2	2.1	140	
	e pP	Z	14:25:28.9					
MOX	e Pdiff	Z	14:25:01.6	98.4	256.1	1.9	71	
	e pPP	Z	14:29:27.1					
	e SKSac	E	14:35:34.5					
	e Sdiff	E	14:36:17.6					
	e SP	Z	14:37:48.1					
	e LR	Z	14:58:47.9					
	e L	Z	15:07:21.4			20.0	1267	5.4
BSEG	e Pdiff	Z	14:25:02.0	98.5	255.6	1.1	37	
	e pPP	Z	14:29:27.9					
	e SKSac	E	14:35:31.8					
	e Sdiff	E	14:36:23.6					
	e SP	Z	14:37:45.4					
	e SS	E	14:43:12.8					
	e LR	Z	14:58:13.0					
	e L	Z	15:07:55.7			18.0	1699	5.6
WET	e Pdiff	Z	14:25:03.9	98.9	256.8	1.0	27	
	e pPP	Z	14:29:29.8					
	e SKSac	E	14:35:35.7					
	e Sdiff	E	14:36:24.4					

	e SP	Z	14:37:51.7						
	e LR	Z	14:59:05.6						
	e L	Z	15:04:51.3			22.0	597		5.0
GEC2	e Pdiff	Z	14:25:05.7	99.3	257.4	1.1	19		
	e pPdiff	Z	14:25:34.4						
CLL	i Pdiff	Z	14:25:06.5	99.4	257.3	1.2	36		
	e pPdiff	Z	14:25:34.4						
	e pPP	Z	14:29:35.1						
	e SKSac	E	14:35:38.4						
	e Sdiff	E	14:36:28.6						
	e SP	Z	14:37:56.2						
	e LR	Z	14:58:53.3						
	e L	Z	15:08:37.7			20.0	1337		5.4
BRG	i Pdiff	Z	14:25:09.0	99.9	257.9	1.3	47		
	e pPdiff	Z	14:25:37.0						
	e SKSac	E	14:35:41.2						
	e Sdiff	E	14:36:32.2						
	e SP	Z	14:38:02.1						
	e SS	N	14:43:26.6						
	e LR	Z	14:59:08.0						
	e L	Z	15:08:52.6			20.0	1173		5.4
RUE	e Pdiff	Z	14:25:09.8	100.1	258.1				
	e SP	Z	14:38:03.5						
	e LR	Z	14:59:42.7						
	e L	Z	15:09:53.8			20.0	562		5.1
RGN	e SP	Z	14:38:04.6	100.3	258.1				
	e LR	Z	14:58:55.5						
	e L	Z	15:08:27.7			20.0	1260		5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	19:33:50.0	34.750N	142.080E	33.0N	5.1			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	19:46:08.8	82.0	38.2	0.9	8	4.8		
BRG	e P	Z	19:46:13.6	83.0	40.6	1.0	15	5.2		
CLL	e P	Z	19:46:13.5	83.0	40.0					
NRDL	e P	Z	19:46:15.0	83.2	38.0	1.4	11	4.9		
CLZ	e P	Z	19:46:17.3	83.7	38.1	1.1	21	5.3		
WERD	e P	Z	19:46:18.6	84.0	39.4	1.5	16	5.0		
GUNZ	e P	Z	19:46:19.0	84.0	39.4	1.3	18	5.1		
MOX	e P	Z	19:46:19.2	84.1	38.9	1.1	12	5.0		
IBBN	e P	Z	19:46:20.0	84.3	36.2	0.6	14	5.4		
GEC2	e P	Z	19:46:22.1	84.6	40.3	1.2	6	4.7		
WET	e P	Z	19:46:22.7	84.8	39.7	1.8	18	5.0		
GRA1	e P	Z	19:46:24.2	85.0	38.6	1.3	31	5.4		
TNS	e P	Z	19:46:27.2	85.7	36.6	1.5	24	5.1		

	BFO	e P	Z	19:46:34.8	87.2	36.5	0.9	6	4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26	21:29:58.4	33.040N	143.970E	33.0N	5.2			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	21:42:27.8	84.1	40.1					
BSEG	e P	Z	21:42:28.7	84.3	37.6	1.3	21	5.2		
BRG	e P	Z	21:42:33.4	85.3	40.1	1.2	13	4.9		
CLL	e P	Z	21:42:33.3	85.3	39.4	1.4	39	5.4		
NRDL	e P	Z	21:42:34.9	85.5	37.3	1.7	26	5.1		
CLZ	e P	Z	21:42:37.1	85.9	37.5	1.4	39	5.3		
WERD	e P	Z	21:42:38.4	86.2	38.9	3.7	166	5.6		
GUNZ	e P	Z	21:42:38.8	86.3	38.9	1.5	25	5.1		
MOX	e P	Z	21:42:39.0	86.4	38.4	1.5	28	5.2		
IBBN	e P	Z	21:42:39.7	86.5	35.5	1.1	33	5.4		
GEC2	e P	Z	21:42:41.7	86.9	39.8	1.6	15	4.9		
WET	e P	Z	21:42:42.5	87.0	39.2	1.6	24	5.1		
GRA1	e P	Z	21:42:43.9	87.3	38.0	1.5	37	5.5		
BUG	e P	Z	21:42:43.8	87.4	35.1	1.0	14	5.2		
TNS	e P	Z	21:42:46.3	87.9	36.0	1.1	7	4.9		
BFO	e P	Z	21:42:54.0	89.5	35.9	1.6	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/26								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	21:54:07.4							
	e pPKP	Z	21:54:18.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	01:50:53.8	35.850N	139.390E	33.0N	5.1			SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:03:02.4	80.1	39.7	1.8	27	4.9		
BRG	e P	Z	02:03:06.6	80.9	42.0	1.1	13	4.9		
CLL	e P	Z	02:03:06.7	81.0	41.4	1.2	20	5.0		
CLZ	e P	Z	02:03:10.5	81.6	39.5	1.5	34	5.3		
WERD	e P	Z	02:03:12.6	81.9	40.8	1.6	14	4.9		
GUNZ	e P	Z	02:03:12.0	82.0	40.8	1.3	12	4.9		
MOX	e P	Z	02:03:12.5	82.1	40.3					

WET	e P	Z	02:03:16.4	82.7	41.1	1.8	19	5.0
GRA1	e P	Z	02:03:17.0	83.0	39.9	1.4	26	5.3
BUG	e P	Z	02:03:17.9	83.2	37.3	0.8	11	5.1
TNS	e P	Z	02:03:21.4	83.7	38.0	2.0	36	5.3
FUR	e P	Z	02:03:23.0	84.1	39.9	1.8	40	5.3
STU	e P	Z	02:03:25.6	84.5	38.5	0.9	7	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	02:30:13.3	33.100N	142.400E	40.0	5.5			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	02:42:38.8	83.4	41.2	1.2	67	5.7		
BSEG	e P	Z	02:42:39.1	83.6	38.7	1.1	32	5.5		
	e PP	Z	02:45:53.5							
BRG	e P	Z	02:42:43.4	84.6	41.2	0.9	24	5.4		
CLL	e P	Z	02:42:44.2	84.6	40.6	1.1	68	5.8		
	e PP	Z	02:46:00.7							
NRDL	e P	Z	02:42:45.6	84.8	38.5	2.0	56	5.5		
CLZ	e P	Z	02:42:47.7	85.2	38.6	1.3	67	5.7		
WERD	e P	Z	02:42:49.1	85.6	40.0	1.3	29	5.3		
	e PP	Z	02:46:08.7							
GUNZ	e P	Z	02:42:49.3	85.6	40.0	1.3	38	5.5		
MOX	e P	Z	02:42:49.9	85.7	39.5	1.5	48	5.5		
	e PP	Z	02:46:09.5							
IBBN	e P	Z	02:42:50.9	85.9	36.7	1.2	92	5.9		
GEC2	e P	Z	02:42:51.7	86.2	40.9	1.8	37	5.2		
	e PP	Z	02:46:14.0							
WET	e P	Z	02:42:53.5	86.3	40.4	1.5	24	5.1		
	e PP	Z	02:46:15.0							
GRA1	e P	Z	02:42:54.3	86.6	39.2	1.4	66	5.6		
	e pP	Z	02:43:05.5							
	e PP	Z	02:46:17.8							
BUG	e P	Z	02:42:54.4	86.7	36.3	1.1	34	5.4		
TNS	e P	Z	02:42:56.7	87.3	37.1	1.5	27	5.2		
	e PP	Z	02:46:21.2							
FUR	e P	Z	02:42:59.8	87.7	39.2	0.8	20	5.3		
STU	e P	Z	02:43:02.2	88.1	37.7					
WLF	e P	Z	02:43:04.5	88.6	35.4	1.8	67	5.7		
BFO	e P	Z	02:43:04.7	88.8	37.0	1.4	19	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	02:39:23.4	33.740N	143.020E	37.3	5.6			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	02:51:47.2	83.1	40.4	1.5	135	5.9		
BSEG	e P	Z	02:51:48.2	83.3	38.0	1.1	51	5.7		
BRG	e P	Z	02:51:52.8	84.3	40.5	0.9	40	5.6		
	e PP	Z	02:55:08.3							
CLL	i P	- Z	02:51:53.1	84.3	39.8	1.0	97	6.0		
	e pP	Z	02:52:03.8							
	e PP	Z	02:55:07.1							
	i S	E	03:02:17.3							
	e SS	E	03:07:51.3							
	e L	Z	03:34:24.4			18.0	561		5.0	
NRDL	e P	Z	02:51:54.2	84.5	37.7	1.2	28	5.4		
CLZ	e P	Z	02:51:56.6	84.9	37.9	1.5	136	6.0		
WERD	e P	Z	02:51:57.9	85.2	39.2	1.3	37	5.4		
	e PP	Z	02:55:16.3							
GUNZ	e P	Z	02:51:58.3	85.3	39.2	1.2	52	5.5		
MOX	e P	Z	02:51:58.5	85.4	38.7	1.5	76	5.6		
	e PP	Z	02:55:17.1							
IBBN	e P	Z	02:51:59.2	85.5	36.0	1.3	154	6.0		
GEC2	e P	Z	02:52:00.9	85.9	40.2	1.7	34	5.2		
	e PP	Z	02:55:22.2							
WET	e P	Z	02:52:02.0	86.0	39.6	1.9	72	5.5		
GRA1	e P	Z	02:52:03.4	86.3	38.4	1.5	137	5.9		
	e pP	Z	02:52:14.2							
	e PP	Z	02:55:25.4							
BUG	e P	Z	02:52:03.3	86.4	35.5	1.4	84	5.7		
TNS	e P	Z	02:52:06.2	86.9	36.4	1.2	27	5.3		
	e PP	Z	02:55:30.9							
FUR	e P	Z	02:52:08.9	87.4	38.4	0.8	30	5.7		
STU	e P	Z	02:52:10.4	87.8	36.9					
WLF	e P	Z	02:52:13.0	88.2	34.7	1.5	63	5.6		
BFO	e P	Z	02:52:13.8	88.5	36.3	1.0	19	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	02:47:15.1	34.497N	141.556E	33.0N	4.9			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:59:47.7	85.0	39.1	1.6	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	08:48:59.6	19.440S	177.780W	33.0N				SZGRF

Fiji Islands region

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

BSEG	e PKPbc	Z	09:08:32.2	144.9	13.4
NRDL	e PKPbc	Z	09:08:36.4	146.4	13.5
CLZ	e PKPbc	Z	09:08:38.6	147.0	14.2
CLL	e PKPbc	Z	09:08:38.4	147.0	18.9
BRG	e PKPbc	Z	09:08:39.0	147.2	20.7
MOX	e PKPbc	Z	09:08:41.4	147.9	16.8
WERD	e PKPbc	Z	09:08:41.4	148.0	18.1
GUNZ	e PKPbc	Z	09:08:41.7	148.1	18.2
TNS	e PKPbc	Z	09:08:43.8	148.8	11.4
GRA1	e PKPbc	Z	09:08:44.6	148.9	16.6
GEC2	e PKPbc	Z	09:08:44.6	149.2	21.5
BFO	e PKPbc	Z	09:08:48.5	150.7	11.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	10:55: 3.9	34.988N	140.987E	37.6	5.0			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:07:32.5	84.4	39.3	1.1	10	5.0		
	e pP	Z	11:07:43.5			0.3	11			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	11:11:49.5	33.580N	142.790E	36.5	5.5			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	11:24:13.7	83.2	40.7					
BSEG	e P	Z	11:24:14.7	83.3	38.2	1.1	45	5.6		
BRG	e P	Z	11:24:19.3	84.3	40.7	0.8	30	5.6		
	e PP	Z	11:27:34.6							
CLL	e P	Z	11:24:19.3	84.4	40.0	1.0	78	5.9		
NRDL	e P	Z	11:24:20.7	84.6	38.0	1.6	44	5.4		
CLZ	e P	Z	11:24:23.0	85.0	38.1	1.3	87	5.8		
	e PP	Z	11:27:40.8							
WERD	e P	Z	11:24:24.4	85.3	39.5					
GUNZ	e P	Z	11:24:24.8	85.3	39.5	1.3	48	5.5		
	e PP	Z	11:27:43.7							
MOX	e P	Z	11:24:24.9	85.4	39.0					
	e PP	Z	11:27:44.3							
IBBN	e P	Z	11:24:25.7	85.6	36.2	1.0	72	5.7		
GEC2	e P	Z	11:24:27.4	85.9	40.4	1.0	9	4.9		
WET	e P	Z	11:24:28.4	86.1	39.8	2.1	70	5.4		
	e PP	Z	11:27:49.5							
GRA1	e P	Z	11:24:29.8	86.3	38.7	1.4	96	5.7		
	e pP	Z	11:24:40.4							

BUG	e P	Z	11:24:29.7	86.4	35.8	1.4	56	5.5	
TNS	e P	Z	11:24:32.7	87.0	36.6	1.6	37	5.3	
FUR	e P	Z	11:24:35.4	87.5	38.6				
STU	e P	Z	11:24:36.9	87.9	37.1				
WLF	e P	Z	11:24:39.5	88.3	34.9				
BFO	e P	Z	11:24:39.4	88.6	36.5	1.0	17	5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	12:10:60.0	33.076N	141.355E	33.0N	4.8			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:23:38.3	86.2	39.9	1.2	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	13:57: 9.8	2.582N	97.326E	24.5	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:09:44.8	85.5	91.3	1.0	7	4.8		
	e pP	Z	14:09:52.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	15:51:44.7	33.325N	140.593E	30.1	4.9			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:04:20.8	85.6	40.4	1.2	13	4.9		
	e pP	Z	16:04:29.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	16:05:51.9	3.470N	94.360E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:18:05.2	81.2	94.8	1.1	28	5.2		
BRG	e P	Z	16:18:05.2	81.3	95.3	1.1	15	4.9		
RUE	e P	Z	16:18:06.2	81.5	95.4	0.9	16	5.2		
WET	e P	Z	16:18:08.0	81.8	94.2	1.3	17	5.0		
CLL	e P	Z	16:18:08.2	81.9	94.6	1.3	13	4.9		
GUNZ	e P	Z	16:18:10.0	82.2	93.9	1.2	12	4.9		

WERD	e P	Z	16:18:10.2	82.3	93.9	1.1	10	4.8
MOX	e P	Z	16:18:12.6	82.7	93.4	1.2	12	5.0
GRA1	e P	Z	16:18:14.1	82.9	93.0	0.9	23	5.4
CLZ	e P	Z	16:18:17.0	83.6	92.6	1.0	12	5.1
BSEG	e P	Z	16:18:17.8	83.7	92.8	1.2	16	5.1
NRDL	e P	Z	16:18:18.4	83.7	92.4	1.4	22	5.2
TNS	e P	Z	16:18:23.0	84.7	90.9	1.0	14	5.1
BFO	e P	Z	16:18:23.0	84.8	90.7	1.0	9	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/27	17:34:59.8	4.263N	94.832E	33.0N	5.0			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:47:20.2	82.6	92.1	0.7	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/28	01:02:22.4	34.660N	141.700E	39.7	5.2			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:14:39.7	82.0	38.6	1.3	17	5.0		
BRG	e P	Z	01:14:44.7	82.9	40.9					
CLL	e P	Z	01:14:44.8	83.0	40.3	1.0	31	5.5		
CLZ	e P	Z	01:14:48.7	83.6	38.4	1.4	39	5.5		
WERD	e P	Z	01:14:49.8	83.9	39.7	1.3	17	5.1		
MOX	e P	Z	01:14:50.4	84.0	39.3	1.4	22	5.2		
	e pP	Z	01:15:02.1							
IBBN	e P	Z	01:14:51.4	84.2	36.5	0.8	30	5.6		
GEC2	e P	Z	01:14:53.2	84.6	40.6	1.6	13	4.9		
GRA1	e P	Z	01:14:55.2	84.9	38.9	1.3	43	5.5		
	e pP	Z	01:15:06.6							
STU	e P	Z	01:15:02.6	86.5	37.4	1.2	10	4.8		
WLF	e P	Z	01:15:05.0	86.9	35.2	1.9	40	5.2		
	e pP	Z	01:15:16.4							
BFO	e P	Z	01:15:05.6	87.2	36.8	1.1	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/28	02:44: 2.9	4.010N	95.979E	33.0G	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:56:28.0	83.6	91.4	1.3	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/28	06:41:10.6	31.020N	139.370E	33.0G	5.0			szgrf

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	06:53:39.5	84.0	44.5	0.7	21	5.5		
BSEG	e P	Z	06:53:41.3	84.3	42.0	1.0	20	5.3		
BRG	e P	Z	06:53:44.8	85.0	44.5	1.2	12	5.0		
CLL	e P	Z	06:53:44.8	85.1	43.8	1.2	24	5.3		
CLZ	e P	Z	06:53:49.2	85.9	41.9	1.2	23	5.3		
	e PP	Z	06:57:09.2							
WERD	e P	Z	06:53:50.0	86.1	43.3	1.2	6	4.7		
GUNZ	e P	Z	06:53:50.3	86.1	43.3	0.9	6	4.8		
MOX	e P	Z	06:53:50.3	86.2	42.8	0.9	6	4.8		
	e PP	Z	06:57:11.7							
GEC2	e P	Z	06:53:52.2	86.6	44.2	0.9	4	4.6		
	e PP	Z	06:57:15.6							
GRA1	e PP	Z	06:57:19.0	87.1	42.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/28	08:31:46.5	24.165S	178.803W					GSRC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z	08:50:27.1	149.5	16.5					
RUE	e PKP	Z	08:50:28.9	150.1	23.5					
NRDL	e PKP	Z	08:50:30.6	150.9	16.9					
CLL	e PKPdf	Z	08:50:26.2	151.4	22.9	0.7	4			
	i PKPbc	- Z	08:50:31.3			0.8	22			
	e PKPab	Z	08:50:41.1			0.8	4			
CLZ	e PKP	Z	08:50:32.1	151.4	17.7					
BRG	e PKP	Z	08:50:32.0	151.5	25.0					
GEC2	e PKP	Z	08:50:35.8	153.4	26.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/28	10:15:38.5	36.960N	138.590E	33.0G	5.0			SZGRF

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:27:39.6	78.8	39.8	1.1	23	5.1		
BRG	e P	Z	10:27:44.4	79.6	41.9	1.1	13	4.8		
CLL	e P	Z	10:27:43.8	79.7	41.3	1.0	27	5.1		

NRDL	e P	Z	10:27:45.6	80.0	39.4	1.0	7	4.5
CLZ	e P	Z	10:27:48.0	80.4	39.6	1.2	28	5.1
WERD	e P	Z	10:27:49.4	80.6	40.8	1.2	9	4.7
GUNZ	e P	Z	10:27:49.9	80.7	40.8	1.2	13	4.8
MOX	e P	Z	10:27:50.0	80.8	40.3	1.3	12	4.8
GEC2	e P	Z	10:27:52.7	81.3	41.5	1.0	7	4.7
WET	e P	Z	10:27:53.6	81.4	41.0	1.2	12	4.9
GRA1	e P	Z	10:27:55.3	81.7	39.9	1.0	35	5.5
TNS	e P	Z	10:27:58.5	82.4	38.0	1.4	18	5.1
FUR	e P	Z	10:28:01.2	82.8	39.8	1.1	34	5.5
STU	e P	Z	10:28:02.7	83.2	38.4	1.3	26	5.3
WLF	e P	Z	10:28:06.0	83.7	36.4	1.4	35	5.4
BFO	e P	Z	10:28:06.2	83.9	37.8	1.6	27	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	02:01:05.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	03:26: 5.9	33.500N	142.500E	37.1	5.3			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	03:38:29.5	83.1	40.9	0.8	20	5.4		
BSEG	e P	Z	03:38:30.5	83.3	38.5	1.1	20	5.3		
BRG	e P	Z	03:38:35.1	84.3	40.9	1.3	24	5.3		
CLL	e P	Z	03:38:35.1	84.3	40.3	1.0	41	5.6		
	e pP	Z	03:38:45.9							
NRDL	e P	Z	03:38:36.0	84.5	38.2	1.6	21	5.1		
CLZ	e P	Z	03:38:38.9	84.9	38.4	1.3	42	5.5		
WERD	e P	Z	03:38:40.2	85.2	39.7	1.2	16	5.0		
GUNZ	e P	Z	03:38:40.6	85.3	39.7	1.2	20	5.1		
MOX	e P	Z	03:38:40.8	85.4	39.2	1.4	28	5.2		
IBBN	e P	Z	03:38:41.6	85.5	36.4	1.0	34	5.4		
GEC2	e P	Z	03:38:43.0	85.9	40.7	2.0	26	5.0		
WET	e P	Z	03:38:43.9	86.0	40.1	2.0	26	5.0		
GRA1	e P	Z	03:38:45.7	86.3	38.9	1.3	44	5.4		
	e PP	Z	03:42:07.6							
TNS	e P	Z	03:38:48.4	86.9	36.9	1.0	9	4.9		
FUR	e P	Z	03:38:51.3	87.4	38.9	0.9	17	5.4		
STU	e P	Z	03:38:53.7	87.8	37.4	0.4	7	5.3		
WLF	e P	Z	03:38:55.2	88.3	35.2	1.7	40	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	03:43:14.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	03:32:38.3	34.200N	140.150E	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	03:44:56.1	81.8	39.9	1.0	7	4.8		
BRG	e P	Z	03:45:00.6	82.7	42.3	1.1	8	4.9		
CLL	e P	Z	03:45:00.6	82.7	41.7	0.9	13	5.2		
NRDL	e P	Z	03:45:02.4	83.0	39.6	1.8	15	4.9		
CLZ	e P	Z	03:45:04.1	83.4	39.8	1.0	10	5.0		
WERD	e P	Z	03:45:05.7	83.7	41.1	1.3	6	4.6		
GUNZ	e P	Z	03:45:05.7	83.7	41.1	1.1	6	4.7		
MOX	e P	Z	03:45:06.2	83.8	40.6	1.8	14	4.9		
GEC2	e P	Z	03:45:08.8	84.3	42.0	0.9	2	4.4		
WET	e P	Z	03:45:09.2	84.4	41.4	1.4	4	4.4		
GRA1	e P	Z	03:45:11.2	84.7	40.3	1.4	16	5.1		
BFO	e P	Z	03:45:21.8	86.9	38.1	1.2	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	05:00:38.9	54.530N	168.550W	49.3	5.4	4.8		SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:11:57.2	71.5	359.3	0.9	24	5.3		
NRDL	e P	Z	05:12:05.3	73.0	359.2	1.1	32	5.3		
RUE	e P	Z	05:12:05.5	73.0	1.4	1.1	42	5.5		
IBBN	e P	Z	05:12:06.4	73.1	357.8	1.1	78	5.7		
CLZ	e P	Z	05:12:09.6	73.6	359.3	1.1	43	5.4		
CLL	e P	Z	05:12:11.9	74.2	0.9	1.5	42	5.2		
BRG	e P	Z	05:12:14.5	74.6	1.5	3.0	156	5.5		
MOX	e P	Z	05:12:16.1	74.8	0.1	1.2	36	5.3		
WERD	e P	Z	05:12:17.3	75.0	0.5	1.7	43	5.2		
GUNZ	e P	Z	05:12:17.9	75.1	0.5	1.2	22	5.1		
TNS	e P	Z	05:12:18.3	75.2	358.2	1.1	24	5.2		
WLF	e P	Z	05:12:21.4	75.7	356.8	1.0	32	5.4		
GRA1	e P	Z	05:12:22.0	75.8	359.9	1.1	56	5.6		
	e pP	Z	05:12:36.1							

	e	L	Z	05:45:30.2			21.9	548		4.8
WET	e	P	Z	05:12:24.9	76.3	0.9	1.6	48	5.4	
GEC2	e	P	Z	05:12:26.3	76.6	1.3				
STU	e	P	Z	05:12:26.4	76.7	358.7	1.1	39	5.5	
BFO	e	P	Z	05:12:28.8	77.1	358.1	1.1	36	5.4	
FUR	e	P	Z	05:12:30.2	77.3	359.9	0.6	23	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	05:00:30.2	52.956N	168.618W	51D	5.4	4.8		NEIR-M

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e S	N	05:21:13.7	72.8	1.2					
	e SS	N	05:25:50.6							
	e LR	Z	05:35:19.7							
	e L	Z	05:43:43.4			22.0	678		4.9	
HLG	e LR	Z	05:35:27.9	73.1	357.8					
	e L	Z	05:42:38.7			22.0	467		4.7	
BSEG	e P	Z	05:11:56.8	73.4	359.3	1.7	79	5.5		
	e pP	Z	05:12:10.6							
	e S	N	05:21:24.1							
	e SS	N	05:26:13.3							
	e LR	Z	05:35:29.5							
	e PKPPKPdf	Z	05:39:29.8							
	e L	Z	05:42:25.5			22.0	676		4.9	
NRDL	e P	Z	05:12:05.1	74.8	359.2	1.1	31	5.2		
	e pP	Z	05:12:18.5							
	e PKPPKPdf	Z	05:39:27.1							
RUE	e P	Z	05:12:05.3	74.8	1.5	1.5	68	5.5		
	e pP	Z	05:12:20.3							
	e S	N	05:21:37.0							
	e SS	N	05:26:35.1							
	e LR	Z	05:36:48.6							
	e L	Z	05:44:56.9			22.0	548		4.8	
IBBN	e P	Z	05:12:06.3	75.0	357.7	0.9	62	5.6		
	e pP	Z	05:12:21.0							
	e LR	Z	05:36:26.1							
	e L	Z	05:43:58.2			22.0	530		4.8	
CLZ	e P	Z	05:12:09.3	75.5	359.4	1.1	43	5.5		
	e pP	Z	05:12:23.1							
	e LR	Z	05:36:33.8							
	e PKPPKPdf	Z	05:39:26.6							
	e L	Z	05:43:40.7			22.0	732		4.9	
CLL	i P	+ Z	05:12:11.8	76.0	1.0	0.8	16	5.2		
	e pP	Z	05:12:26.2							
	e S	N	05:21:47.0							
	e PS	N	05:22:32.7							

	e SS	N	05:26:51.6						
	e LR	Z	05:36:51.7						
	e L	Z	05:45:42.5			22.0	404		4.7
BRG	e P	Z	05:12:14.3	76.4	1.6				
	e pP	Z	05:12:29.0						
	e S	N	05:21:53.7						
	e PS	N	05:22:40.2						
	e SS	N	05:27:07.3						
	e LR	Z	05:37:10.0						
	e PKPPKPdf	Z	05:39:25.4						
	e L	Z	05:46:27.8			22.0	356		4.6
MOX	e P	Z	05:12:15.9	76.7	0.1	1.2	37	5.4	
	e pP	Z	05:12:29.6						
	e S	N	05:22:02.6						
	e SS	N	05:27:05.7						
	e LR	Z	05:37:09.8						
	e PKPPKPdf	Z	05:39:23.6						
	e L	Z	05:44:50.3			22.0	660		4.9
TNS	e P	Z	05:12:18.1	77.1	358.2	1.1	24	5.2	
	e pP	Z	05:12:32.7						
	e S	N	05:22:08.7						
	e SS	N	05:27:16.7						
	e LR	Z	05:37:27.2						
	e L	Z	05:47:00.2			20.0	526		4.9
GRFO	e P	Z	05:12:22.0	77.6	359.9	1.1	48	5.5	
	e LR	Z	05:37:36.2						
	e L	Z	05:45:06.6			22.0	534		4.8
WET	e P	Z	05:12:24.7	78.2	0.9	1.7	52	5.3	
	e pP	Z	05:12:38.8						
	e S	N	05:22:15.0						
	e LR	Z	05:37:57.3						
	e L	Z	05:51:07.4			22.0	470		4.8
GEC2	e P	Z	05:12:25.9	78.5	1.4	1.3	29	5.2	
	e pP	Z	05:12:40.2						
	e PKPPKPdf	Z	05:39:21.2						
STU	e P	Z	05:12:26.4	78.5	358.6	1.1	40	5.4	
	e pP	Z	05:12:41.3						
	e S	N	05:22:23.4						
	e LR	Z	05:38:02.6						
	e L	Z	05:45:23.6			22.0	493		4.8
BFO	e P	Z	05:12:28.7	79.0	358.1	1.1	36	5.3	
	e pP	Z	05:12:43.3						
	e S	N	05:22:27.1						
	e LR	Z	05:38:18.0						
	e PKPPKPdf	Z	05:39:18.3						
	e L	Z	05:45:37.6			22.0	462		4.8
FUR	e P	Z	05:12:30.5	79.2	359.9				
	e pP	Z	05:12:43.5						
	e S	N	05:22:30.8						

e LR	Z	05:38:24.8					
e L	Z	05:46:15.1		22.0	563		4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	06:02: 4.1	0.488N	95.831E	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	06:14:42.3	86.1	93.8	0.7	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	12:27: 6.6	8.351N	91.845E	31.4	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:38:50.5	75.9	94.1	1.5	28	5.2		
GEC2	e P	Z	12:38:50.2	75.9	93.4	1.4	27	5.2		
RUE	e P	Z	12:38:51.3	76.1	94.4	0.8	29	5.4		
WET	e P	Z	12:38:54.0	76.5	92.8	1.4	16	5.0		
CLL	e P	Z	12:38:53.5	76.5	93.5	1.4	16	4.9		
GUNZ	e P	Z	12:38:56.2	76.9	92.7	1.2	14	4.9		
WERD	e P	Z	12:38:56.1	76.9	92.7	1.1	15	5.0		
NOTT	e P	Z	12:38:57.2	77.0	92.4	1.6	28	5.1		
MOX	e P	Z	12:38:58.3	77.4	92.2	1.2	14	5.0		
GRA1	e P	Z	12:39:00.1	77.6	91.7	1.4	41	5.4		
	e pP	Z	12:39:09.5			1.1	17			
CLZ	e P	Z	12:39:03.1	78.2	91.5	1.0	19	5.2		
BSEG	e P	Z	12:39:03.6	78.3	91.9	2.1	64	5.4		
NRDL	e P	Z	12:39:04.4	78.4	91.4	1.5	26	5.1		
TNS	e P	Z	12:39:09.9	79.4	89.7	1.0	9	4.8		
BFO	e P	Z	12:39:10.0	79.5	89.2	0.9	9	4.7		
BUG	e P	Z	12:39:13.7	80.1	89.0	0.9	12	4.8		
WLF	e P	Z	12:39:18.4	80.9	87.8	1.0	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	12:51: 8.0	33.860N	143.030E	38.5	5.4	4.7		SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	13:03:31.1	83.0	40.4	0.7	28	5.6		
BSEG	e P	Z	13:03:32.1	83.2	37.9	1.4	52	5.6		
BRG	e P	Z	13:03:36.8	84.2	40.4	1.1	32	5.5		
	e PP	Z	13:06:53.4							

	CLL	e P	Z	13:03:36.3	84.2	39.7	1.0	54	5.7	
		i		13:03:38.6						
		e pP	Z	13:03:47.8						
		e	Z	13:03:55.7						
		e PP	Z	13:06:53.1						
		e S	E	13:14:01.4						
		e L	Z	13:50:09.4			15.8	1060		
	NRDL	e P	Z	13:03:38.1	84.4	37.7	1.2	22	5.3	
		e PP	Z	13:06:56.2						
	CLZ	e P	Z	13:03:40.5	84.8	37.8	1.1	52	5.7	
		e PP	Z	13:07:00.1						
	WERD	e P	Z	13:03:41.8	85.1	39.2	1.4	32	5.4	
		e PP	Z	13:07:02.3						
	GUNZ	e P	Z	13:03:42.2	85.2	39.2	1.2	37	5.4	
	MOX	e P	Z	13:03:42.4	85.3	38.7	1.3	34	5.3	
		e PP	Z	13:07:03.2						
	IBBN	e P	Z	13:03:43.0	85.4	35.9	1.0	68	5.7	
	NOTT	e P	Z	13:03:44.9	85.7	39.0	1.3	43	5.4	
		e PP	Z	13:07:06.4						
	GEC2	e P	Z	13:03:44.9	85.8	40.1	1.3	15	5.0	
		e PP	Z	13:07:06.7						
	WET	e P	Z	13:03:45.9	85.9	39.5	0.3	16	5.6	
		e PP	Z	13:07:08.5						
	GRA1	e P	Z	13:03:47.3	86.2	38.3	1.4	71	5.6	
		e pP	Z	13:03:58.5						
		e		13:04:06.8						
		e PP	Z	13:07:09.4						
		e L	Z	13:48:59.5			18.1	273		4.7
	BUG	e P	Z	13:03:47.1	86.3	35.5	1.1	32	5.3	
	TNS	e P	Z	13:03:50.1	86.8	36.3	1.3	23	5.1	
	FUR	e P	Z	13:03:52.8	87.3	38.3	1.1	24	5.4	
	STU	e P	Z	13:03:54.3	87.7	36.8				
	WLF	e P	Z	13:03:56.9	88.1	34.6	1.6	50	5.6	
	BFO	e P	Z	13:03:57.2	88.4	36.2	0.9	10	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	20:25: 6.8	33.950N	143.080E	47.9		5.2		SZGRF

Off east coast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	RUE	e P	Z	20:37:28.3	82.9	40.3					
	BSEG	e P	Z	20:37:29.3	83.1	37.8					
	BRG	e P	Z	20:37:34.0	84.1	40.3					
		e PP	Z	20:40:48.7							
	CLL	e P	Z	20:37:33.6	84.1	39.6	1.0	84	5.9		
		e		20:37:45.8							
		e PP	Z	20:40:51.8							

	e S	E	20:48:02.7						
	e SS	E	20:53:33.2						
	e L	Z	21:20:05.2			18.0	1013	5.3	
NRDL	e P	Z	20:37:35.4	84.3	37.6				
CLZ	e P	Z	20:37:37.7	84.7	37.7				
	e PP	Z	20:40:54.5						
WERD	e P	Z	20:37:39.0	85.1	39.1				
	e PP	Z	20:40:57.0						
GUNZ	e P	Z	20:37:39.4	85.1	39.1				
	e PP	Z	20:40:57.4						
MOX	e P	Z	20:37:39.6	85.2	38.6				
	e PP	Z	20:40:58.2						
IBBN	e P	Z	20:37:40.3	85.3	35.8				
GEC2	e P	Z	20:37:42.0	85.7	40.0				
	e PP	Z	20:41:03.0						
WET	e P	Z	20:37:43.1	85.9	39.4				
	e PP	Z	20:41:03.9						
GRA1	e P	Z	20:37:44.5	86.1	38.3				
	e PP	Z	20:41:06.1						
	e L	Z	21:20:30.7			18.6	829	5.2	
BUG	e P	Z	20:37:44.3	86.2	35.4				
	e PP	Z	20:41:06.3						
TNS	e P	Z	20:37:47.4	86.8	36.2				
FUR	e P	Z	20:37:50.0	87.3	38.2				
STU	e P	Z	20:37:51.5	87.6	36.8				
WLF	e P	Z	20:37:54.1	88.1	34.5				
BFO	e P	Z	20:37:54.8	88.3	36.1				
	e pP	Z	20:38:08.7						
	e PP	Z	20:41:23.4						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/29	20:33:38.4	2.550N	93.690E	34.1	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	20:45:53.3	81.5	95.9	1.1	245	6.1		
BRG	e P	Z	20:45:53.4	81.6	96.4	1.1	139	6.0		
RUE	e P	Z	20:45:54.5	81.8	96.5	1.0	258	6.3		
WET	e P	Z	20:45:56.1	82.1	95.3	1.1	107	5.9		
CLL	e P	Z	20:45:56.2	82.2	95.7	1.1	97	5.8		
GUNZ	e P	Z	20:45:58.5	82.5	95.0	1.1	101	6.0		
WERD	e P	Z	20:45:58.4	82.6	95.0	1.1	82	5.9		
MOX	e P	Z	20:46:00.8	83.0	94.5	1.6	165	6.0		
FUR	e P	Z	20:46:00.7	83.0	94.0	1.8	276	6.2		
GRA1	e P	Z	20:46:02.2	83.2	94.1	1.1	178	6.2		
	e pP	Z	20:46:12.1							
CLZ	e P	Z	20:46:05.2	83.9	93.7	1.1	127	6.1		

BSEG	e	P	Z	20:46:06.1	84.0	93.9	1.3	143	6.1
NRDL	e	P	Z	20:46:06.5	84.1	93.5	1.4	184	6.1
STU	e	P	Z	20:46:08.0	84.5	92.5	1.0	55	5.7
TNS	e	P	Z	20:46:11.1	85.0	92.0	0.9	112	6.1
BFO	e	P	Z	20:46:10.6	85.0	91.8	1.0	50	5.7
IBBN	e	P	Z	20:46:13.6	85.5	91.7	1.3	164	6.0
BUG	e	P	Z	20:46:14.9	85.8	91.2	1.2	133	5.9
WLF	e	P	Z	20:46:18.7	86.5	90.2	1.3	120	5.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	00:00:40.1	11.420S	75.970E	25.6	5.3			SZGRF

South Indian Ocean

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P		Z	00:12:53.7	81.3	118.6	1.7	30	5.1		
WET	e P		Z	00:12:56.7	81.9	118.0	1.3	19	5.1		
BRG	e P		Z	00:12:58.6	82.2	119.1	1.1	15	5.0		
FUR	e P		Z	00:12:59.7	82.4	116.6	1.2	24	5.2		
NOTT	e P		Z	00:13:01.4	82.7	117.5	1.7	22	5.1		
GUNZ	e P		Z	00:13:01.8	82.8	117.7	2.5	98	5.6		
CLL	i P	+	Z	00:13:02.2	82.9	118.4	1.3	46	5.6		
	e pP		Z	00:13:07.4							
	i sP		Z	00:13:09.8							
	e			00:13:15.7							
	e PP		Z	00:16:20.6							
	e S		N	00:23:21.1							
	e PS		E	00:24:24.4							
	e L		Z	00:53:02.7			20.0	131		4.3	
GRA1	e P		Z	00:13:03.6	83.1	116.8	1.1	43	5.6		
	e pP		Z	00:13:11.1							
MOX	e P		Z	00:13:04.9	83.3	117.2	1.2	20	5.2		
STU	e P		Z	00:13:07.5	83.9	115.1	1.1	42	5.6		
BFO	e P		Z	00:13:09.3	84.3	114.3	1.1	20	5.3		
CLZ	e P		Z	00:13:10.9	84.6	116.3	1.5	61	5.6		
TNS	e P		Z	00:13:13.1	85.0	114.6	1.0	18	5.2		
NRDL	e P		Z	00:13:13.1	85.0	116.1	1.6	47	5.5		
BSEG	e P		Z	00:13:15.1	85.5	116.4	1.3	19	5.2		
WLF	e P		Z	00:13:18.6	86.1	112.8	1.0	11	5.0		
BUG	e P		Z	00:13:18.8	86.2	113.7	1.4	55	5.5		
IBBN	e P		Z	00:13:19.2	86.2	114.2	2.0	128	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	00:36:35.8	1.740N	96.430E	31.6	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:49:03.2	83.9	94.3	1.3	30	5.4		
	e pP	Z	00:49:12.4							
BRG	e P	Z	00:49:03.0	83.9	94.7	1.3	14	5.0		
WET	e P	Z	00:49:05.9	84.5	93.7	1.2	13	5.0		
CLL	e P	Z	00:49:05.7	84.5	94.1	1.1	13	5.1		
GUNZ	e P	Z	00:49:08.0	84.9	93.4	1.2	11	5.0		
WERD	e P	Z	00:49:07.9	84.9	93.4	1.0	8	4.9		
NOTT	e P	Z	00:49:08.8	85.0	93.2	1.3	10	4.9		
MOX	e P	Z	00:49:10.3	85.4	92.9	1.2	10	4.9		
FUR	e P	Z	00:49:10.9	85.5	92.5	0.9	8	4.9		
GRA1	e P	Z	00:49:11.6	85.6	92.5	1.1	19	5.1		
CLZ	e P	Z	00:49:14.4	86.2	92.0	1.5	25	5.1		
BSEG	e P	Z	00:49:15.0	86.3	92.1	1.1	26	5.3		
NRDL	e P	Z	00:49:15.6	86.4	91.9	1.3	33	5.3		
STU	e P	Z	00:49:17.5	86.9	90.9	0.9	11	5.0		
TNS	e P	Z	00:49:20.3	87.4	90.4	1.2	18	5.1		
BFO	e P	Z	00:49:20.0	87.4	90.3	1.5	9	4.7		
IBBN	e P	Z	00:49:22.3	87.8	90.0	1.3	50	5.7		
BUG	e P	Z	00:49:23.7	88.1	89.6	1.3	31	5.5		
WLF	e P	Z	00:49:27.6	88.9	88.7	1.4	27	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	00:40: 9.5	0.881N	98.244E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:52:53.8	87.4	91.7	1.0	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	03:04:41.7	45.787N	153.893E	33.0N	4.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:16:43.7	79.2	25.5	1.1	5	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	05:12:51.9	19.330S	176.990W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:32:24.3	144.9	12.1					
NRDL	e PKPbc	Z	05:32:28.4	146.4	12.2					

CLZ	e PKPbc	Z	05:32:31.2	147.0	12.8
CLL	e PKPbc	Z	05:32:30.8	147.1	17.5
BRG	e PKPbc	Z	05:32:31.7	147.3	19.3
MOX	e PKPbc	Z	05:32:33.5	148.0	15.4
WERD	e PKPbc	Z	05:32:33.8	148.0	16.7
GUNZ	e PKPbc	Z	05:32:34.1	148.1	16.8
NOTT	e PKPbc	Z	05:32:35.7	148.7	16.7
TNS	e PKPbc	Z	05:32:36.3	148.8	9.9
GRA1	e PKPbc	Z	05:32:36.3	148.9	15.1
WET	e PKPbc	Z	05:32:37.8	149.1	18.4
GEC2	e PKPbc	Z	05:32:37.0	149.3	20.0
WLF	e PKPbc	Z	05:32:38.5	149.6	5.9
BFO	e PKPbc	Z	05:32:40.3	150.7	10.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	08:49:50.0	40.170N	142.590E	33.0N	4.6			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	09:01:44.2	77.4	35.4	0.8	5	4.7		
BRG	e P	Z	09:01:50.6	78.5	37.5	0.7	4	4.5		
CLL	e P	Z	09:01:49.9	78.5	36.9	0.8	6	4.7		
CLZ	e P	Z	09:01:53.6	79.0	35.2	0.7	5	4.7		
WERD	e P	Z	09:01:56.7	79.5	36.4	0.6	4	4.5		
GUNZ	e P	Z	09:01:55.9	79.5	36.4	0.6	3	4.4		
MOX	e P	Z	09:01:56.0	79.6	35.9	0.7	4	4.5		
NOTT	e P	Z	09:01:58.9	80.1	36.2	0.8	4	4.4		
GEC2	e P	Z	09:01:59.4	80.2	37.1	0.6	2	4.4		
WET	e P	Z	09:02:00.3	80.3	36.6	0.8	5	4.6		
GRA1	e P	Z	09:02:01.6	80.5	35.6	0.7	13	5.1		
TNS	e P	Z	09:02:04.3	81.1	33.7	0.9	6	4.6		
BFO	e P	Z	09:02:12.6	82.7	33.5	0.8	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	09:23: 4.4	27.300S	176.000W	33.0N				GSRC-M

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	09:43:27.0	156.9	16.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	11:03:48.4	61.369S	154.061E	10.0G		5.8		NEIC-M

Balleny Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPdf	Z	11:23:41.8							
	e PKPab	Z	11:24:10.0							
	e		11:24:26.1							
	e PP	Z	11:27:26.9							
	e SS	E	11:47:51.2							
	e LR	Z	12:18:42.3							
	e L	Z	12:39:06.1			22.0	1857			
BRG	e PKPdf	Z	11:23:40.8							
	e PKPab	Z	11:24:08.8							
	e		11:24:21.8							
	e PP	Z	11:27:50.9							
	e SS	N	11:47:45.1							
	e LR	Z	12:19:39.3							
	e L	Z	12:44:47.8			20.0	2024			
BSEG	e PKPdf	Z	11:23:47.6							
	e PKPab	Z	11:24:27.9							
	e PP	Z	11:28:10.3							
	e PPS	E	11:41:40.1							
	e SS	N	11:48:21.3							
	e LR	Z	12:20:34.4							
	e L	Z	12:40:50.5			22.0	2084			
BUG	e PKPdf	Z	11:23:45.5							
	e		11:24:32.1							
	e PP	Z	11:28:15.0							
	e PPS	E	11:41:35.1							
	e SS	N	11:48:19.9							
	e LR	Z	12:21:37.4							
	e L	Z	12:42:36.1			22.0	1650			
CLL	e PKPdf	Z	11:23:46.6							
	e PKPab	Z	11:24:13.5			1.0	11			
	e		11:24:25.0							
	e PP	Z	11:27:51.6							
	e PPS	E	11:41:09.9							
	e SS	E	11:47:55.6							
	e LR	Z	12:19:59.8							
	e L	Z	12:41:23.7			22.0	1526			
CLZ	e PKPdf	Z	11:23:43.8							
	e		11:24:27.8							
	e PP	Z	11:28:02.4							
	e L	Z	12:41:35.2			20.0	2478			
FBE	e		11:24:19.3							
FUR	e PP	Z	11:27:17.4							
	e LR	Z	12:18:06.0							
	e L	Z	12:41:36.5			18.0	2317			
GEC2	e PKPdf	Z	11:23:41.4							
GRA1	e PKPdf	Z	11:23:58.5	156.4	133.7					
	e PP	Z	11:27:59.4							

	e SS	E	11:47:50.9				
	e L	Z	12:46:30.7		21.2	1390	5.8
GRFO	e PKPdf	Z	11:23:45.9				
	e PKPab	Z	11:24:15.1				
	e PP	Z	11:27:49.9				
	e SS	N	11:47:49.4				
	e L	Z	12:40:42.8		22.0	1240	
HLG	e PP	Z	11:28:21.9				
	e LR	Z	12:21:45.2				
	e L	Z	12:41:07.2		22.0	2509	
IBBN	e PP	Z	11:28:23.3				
	e LR	Z	12:21:17.5				
	e L	Z	12:47:43.2		20.0	2047	
MOX	e PKPdf	Z	11:23:42.5				
	e		11:24:25.8				
	e PP	Z	11:27:53.8				
	e SS	N	11:47:57.0				
	e LR	Z	12:20:31.4				
	e L	Z	12:42:06.4		22.0	1342	
NRDL	e		11:24:30.4				
RGN	e PP	Z	11:27:41.8				
	e LR	Z	12:20:05.4				
	e L	Z	12:45:13.8		20.0	2036	
STU	e SS	E	11:47:47.2				
	e LR	Z	12:19:19.6				
	e L	Z	12:40:18.1		22.0	1262	
TNS	e PKPdf	Z	11:23:47.7				
	e SS	N	11:48:06.9				
	e LR	Z	12:20:27.3				
	e L	Z	12:41:04.3		20.0	1904	
WET	e PKPdf	Z	11:23:40.4				
	e		11:24:15.5				
	e PP	Z	11:27:05.9				
	e SS	E	11:47:35.6				
	e LR	Z	12:20:11.7				
	e L	Z	12:42:09.6		22.0	1588	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	11:11: 9.9	24.866S	76.040E	33.0N	5.2			SZGRF

South Indian Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:24:25.2	94.1	124.6	1.2	15	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	11:25:23.8	34.897N	22.938E	40.0G	4.0			GSRC-M

Central Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	11:29:01.8	15.5	150.5	1.2	13	3.9		
WET	e P	Z	11:29:07.2	16.1	148.8	1.0	10	3.9		
NOTT	e P	Z	11:29:15.8	16.9	148.0	1.0	13	4.0		
GRA1	e P	Z	11:29:18.5	17.1	145.5	1.1	17	4.1		
WERD	e P	Z	11:29:22.0	17.4	149.5	1.2	8	3.8		
WLF	e P	Z	11:29:42.2	19.2	133.9	0.9	15	4.2		
BSEG	e P	Z	11:29:59.5	21.0	150.0	1.0	21	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	12:24:41.8	8.072N	91.306E	33.0N	5.2			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:36:23.8	75.8	94.7	1.5	39	5.3		
GEC2	e P	Z	12:36:23.6	75.8	94.0	1.2	27	5.3		
WET	e P	Z	12:36:27.5	76.3	93.4	1.1	19	5.1		
CLL	e P	Z	12:36:27.4	76.4	94.1	1.3	29	5.2		
GUNZ	e P	Z	12:36:29.8	76.8	93.3	1.2	25	5.2		
WERD	e P	Z	12:36:29.4	76.8	93.3	1.2	20	5.1		
NOTT	e P	Z	12:36:30.6	76.9	93.0	1.6	32	5.2		
MOX	e P	Z	12:36:32.2	77.2	92.8	1.4	33	5.3		
FUR	e P	Z	12:36:33.2	77.4	92.0	1.9	92	5.6		
GRA1	e P	Z	12:36:34.3	77.4	92.3	1.4	62	5.6		
CLZ	e P	Z	12:36:37.0	78.1	92.1	1.1	32	5.3		
BSEG	e P	Z	12:36:37.7	78.2	92.5	1.1	34	5.4		
NRDL	e P	Z	12:36:38.3	78.3	92.0	1.5	42	5.4		
STU	e P	Z	12:36:40.8	78.7	90.6	0.9	9	4.8		
TNS	e P	Z	12:36:43.6	79.2	90.3	1.2	27	5.1		
BFO	e P	Z	12:36:43.4	79.3	89.8	1.2	20	5.0		
IBBN	e P	Z	12:36:45.7	79.7	90.1	1.3	43	5.2		
BUG	e P	Z	12:36:47.1	80.0	89.6	1.3	33	5.1		
WLF	e P	Z	12:36:52.2	80.7	88.4	1.3	38	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	15:13:19.4	4.820N	94.730E	47.8	6.0	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	15:25:26.3	80.5	94.1	1.4	176	5.8		
GEC2	e P	Z	15:25:26.5	80.5	93.6	1.3	310	6.1		
WET	e P	Z	15:25:29.4	81.0	93.0	1.3	205	6.0		

	CLL	i P	+ Z	15:25:29.0	81.1	93.4	1.3	131	5.8	
		e pP	Z	15:25:42.7						
		e PP	Z	15:28:37.0						
		e PPP	Z	15:30:22.4						
		e S	N	15:35:31.2						
		e SS	N	15:40:49.3						
		e L	Z	16:08:31.1			20.8	1359		
	RGN	e P	Z	15:25:29.5	81.1	94.2	1.5	339	6.2	
	GUNZ	e P	Z	15:25:31.5	81.4	92.8	1.3	134	5.8	
	WERD	e P	Z	15:25:31.5	81.5	92.8	1.3	129	5.8	
	NOTT	e P	Z	15:25:32.4	81.6	92.5	1.5	123	5.8	
	MOX	e P	Z	15:25:33.9	81.9	92.3	1.5	148	5.9	
	FUR	e P	Z	15:25:34.3	82.0	91.7	1.5	271	6.2	
	GRA1	e P	Z	15:25:35.5	82.1	91.8	1.2	288	6.3	
		e		15:25:37.6						
		e pP	Z	15:25:49.4						
		e PP	Z	15:28:44.4						
		e PPP	Z	15:30:38.0						
		e S	T	15:35:44.8						
		e SS	T	15:41:10.2						
		e L	Z	16:07:03.7			22.0	1062		5.2
	CLZ	e P	Z	15:25:38.2	82.7	91.5	1.2	183	6.2	
	BSEG	e P	Z	15:25:38.7	82.8	91.7	1.3	213	6.2	
	NRDL	e P	Z	15:25:39.4	82.9	91.3	1.4	222	6.2	
	STU	e P	Z	15:25:41.7	83.4	90.2	1.6	177	6.0	
	TNS	e P	Z	15:25:44.5	83.9	89.8	1.3	144	6.1	
	BFO	e P	Z	15:25:44.4	84.0	89.5	1.1	101	5.9	
	HLG	e P	Z	15:25:46.1	84.2	89.7				
	IBBN	e P	Z	15:25:46.6	84.3	89.4	1.4	272	6.3	
	BUG	e P	Z	15:25:48.1	84.7	89.0	1.3	215	6.2	
	WLF	e P	Z	15:25:52.3	85.4	88.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	18:41:25.2	36.121N	141.112E	33.0N	5.0			SZGRF

Near east coast of eastern Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	18:53:49.7	83.4	38.6	2.1	22	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	21:33:45.1	45.581N	151.407E	33.0N	4.8			SZGRF

Kuril Islands, Russia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	21:45:44.2	78.6	27.2	0.9	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/30	21:44:46.2	38.716N	35.204E	10.0G	4.6	4.6		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	21:48:57.5	18.4	115.3	1.2	25	4.2		
WET	e P	Z	21:49:07.1	19.1	114.8	1.6	37	4.4		
FUR	e P	Z	21:49:15.7	19.7	109.8	1.4	46	4.5		
NOTT	e P	Z	21:49:15.4	19.8	115.3	2.0	76	4.6		
GUNZ	e P	Z	21:49:17.9	19.9	117.0	1.4	25	4.2		
WERD	e P	Z	21:49:18.3	20.0	117.2	1.2	16	4.1		
CLL	e P	Z	21:49:17.4	20.0	120.4	1.2	30	4.4		
GRA1	e P	Z	21:49:24.7	20.3	113.7	1.1	31	4.4		
	e S	R	21:52:52.2							
	e L	Z	21:57:10.5			20.5	2862		4.6	
MOX	e P	Z	21:49:26.1	20.4	116.6	1.9	64	4.5		
STU	e P	Z	21:49:29.9	21.2	108.6	0.9	30	4.6		
BFO	e P	Z	21:49:34.8	21.6	106.4	1.0	74	5.0		
RGN	e P	Z	21:49:36.4	21.6	128.0	1.2	145	5.3		
CLZ	e P	Z	21:49:36.8	21.7	117.5	1.2	32	4.6		
TNS	e P	Z	21:49:42.1	22.1	111.1	1.0	17	4.4		
NRDL	e P	Z	21:49:42.4	22.1	118.5	1.1	26	4.6		
BSEG	e P	Z	21:49:46.5	22.7	121.8	1.2	45	4.9		
BUG	e P	Z	21:49:53.5	23.3	112.2	1.2	36	4.8		
IBBN	e P	Z	21:49:50.9	23.3	114.7	1.1	55	5.0		
WLF	e P	Z	21:49:53.8	23.3	106.9	1.8	63	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	01:24: 9.7	23.000S	173.510E	33.0N		4.8		SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:43:47.2	146.6	28.9					
NRDL	e PKPbc	Z	01:43:51.0	147.9	29.6					
CLL	e PKPbc	Z	01:43:50.8	147.9	35.3					
BRG	e PKPbc	Z	01:43:51.3	147.9	37.3					
CLZ	e PKPbc	Z	01:43:52.4	148.4	30.6					
IBBN	e PKPbc	Z	01:43:53.1	148.7	25.9					
WERD	e PKPbc	Z	01:43:53.7	148.9	35.0					
GUNZ	e PKPbc	Z	01:43:54.5	148.9	35.2					
MOX	e PKPbc	Z	01:43:54.8	149.0	33.7					
NOTT	e PKPbc	Z	01:43:55.0	149.5	35.3					
GEC2	e PKPbc	Z	01:43:55.7	149.6	38.9					
BUG	e PKPbc	Z	01:43:56.1	149.6	25.7					

WET	e	PKPbc	Z	01:43:55.9	149.7	37.3				
GRA1	e	PKPbc	Z	01:43:57.0	149.9	34.0				
	e	L	Z	02:58:10.5			22.0	153	4.8	
TNS	e	PKPbc	Z	01:43:57.8	150.4	28.7				
FUR	e	PKPbc	Z	01:44:00.0	151.1	35.6				
STU	e	PKPbc	Z	01:43:59.9	151.4	31.3				
WLF	e	PKPbc	Z	01:44:01.1	151.5	25.0				
BFO	e	PKPbc	Z	01:44:01.0	152.1	30.2				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	04:19:57.3	16.589S	174.102W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NOTT	e	PKPbc	Z 04:39:37.1	146.4	10.8					
GRA1	e	PKPbc	Z 04:39:35.0	146.6	9.3					
WLF	e	PKPbc	Z 04:39:37.9	146.9	0.4					
WET	e	PKPbc	Z 04:39:37.5	147.0	12.3					
STU	e	PKPbc	Z 04:39:39.1	147.7	5.9					
BFO	e	PKPbc	Z 04:39:41.8	148.2	4.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	12:18:28.5	0.741N	96.794E	33.0N	5.1			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z 12:31:00.2	84.9	94.7	1.1	14	5.1		
BRG	e	P	Z 12:30:59.9	84.9	95.1	1.0	10	5.0		
WET	e	P	Z 12:31:02.9	85.5	94.1	1.0	10	5.0		
CLL	e	P	Z 12:31:02.9	85.5	94.4	1.0	6	4.7		
GUNZ	e	P	Z 12:31:05.3	85.9	93.8	1.2	11	4.9		
WERD	e	P	Z 12:31:04.8	85.9	93.8	1.0	10	4.9		
NOTT	e	P	Z 12:31:05.6	86.0	93.6	1.2	7	4.7		
MOX	e	P	Z 12:31:06.9	86.4	93.3	1.7	23	5.0		
GRA1	e	P	Z 12:31:08.7	86.6	92.9	1.0	15	5.1		
CLZ	e	P	Z 12:31:11.6	87.2	92.4	0.9	10	5.0		
BSEG	e	P	Z 12:31:12.0	87.3	92.4	0.9	17	5.2		
NRDL	e	P	Z 12:31:12.4	87.4	92.2	1.1	26	5.3		
TNS	e	P	Z 12:31:17.2	88.4	90.8	0.9	14	5.3		
BFO	e	P	Z 12:31:17.0	88.4	90.7	0.8	6	4.9		
IBBN	e	P	Z 12:31:19.0	88.8	90.3	1.0	39	5.6		
BUG	e	P	Z 12:31:20.9	89.1	89.9	1.0	16	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	12:37:18.0	0.301N	97.952E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:50:03.5	87.7	92.3	1.3	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	12:56:40.8	22.560S	175.920W	33.0N				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	13:16:28.6	150.4	16.9					
BRG	e PKPbc	Z	13:16:29.3	150.7	18.8					
MOX	e PKPbc	Z	13:16:31.8	151.3	14.6					
NOTT	e PKPbc	Z	13:16:32.8	152.0	16.0					
TNS	e PKPbc	Z	13:16:33.2	152.1	8.7					
GRA1	e PKPbc	Z	13:16:33.4	152.3	14.3					
WET	e PKPbc	Z	13:16:34.5	152.5	17.8					
GEC2	e PKPbc	Z	13:16:34.2	152.6	19.6					
BFO	e PKPbc	Z	13:16:37.1	154.0	9.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	16:16:56.8	31.240N	31.220E	33.0N	4.3			SZGRF

Egypt

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:21:49.0	22.0	136.6	1.2	17	4.3		
WET	e P	Z	16:21:55.3	22.6	135.6	0.8	4	4.1		
NOTT	e P	Z	16:22:02.8	23.4	135.3	0.8	4	4.0		
BRG	e P	Z	16:22:04.5	23.4	140.3	0.9	7	4.2		
GRA1	e P	Z	16:22:06.5	23.8	133.5	0.8	11	4.5		
WERD	e P	Z	16:22:07.9	23.8	136.6	0.8	4	4.0		
CLL	e P	Z	16:22:09.8	24.1	139.2	0.9	14	4.5		
STU	e P	Z	16:22:11.1	24.2	128.4	1.0	19	4.6		
MOX	e P	Z	16:22:11.2	24.2	135.7	0.8	14	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	19:29:57.5	13.350N	92.650E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	19:41:22.2	72.6	90.1	0.7	8	5.0		

GEC2	e P	Z	19:41:23.5	72.7	89.3	0.7	13	5.2
CLL	e P	Z	19:41:25.5	73.2	89.5	2.0	19	4.9
WET	e P	Z	19:41:26.5	73.3	88.8	1.5	19	5.0
GUNZ	e P	Z	19:41:28.6	73.6	88.7	0.7	6	4.7
WERD	e P	Z	19:41:28.5	73.6	88.7	0.7	6	4.7
NOTT	e P	Z	19:41:29.5	73.8	88.4	1.1	8	4.6
MOX	e P	Z	19:41:30.9	74.1	88.3	0.8	7	4.8
GRA1	e P	Z	19:41:33.0	74.3	87.7	0.9	8	4.7
BSEG	e P	Z	19:41:35.2	74.7	88.2	1.2	21	5.1
CLZ	e P	Z	19:41:35.2	74.8	87.6	0.6	10	5.0
NRDL	e P	Z	19:41:36.5	74.9	87.6	1.5	22	5.0
TNS	e P	Z	19:41:42.8	76.1	85.7	0.6	6	4.9
BFO	e P	Z	19:41:44.0	76.3	85.2			
IBBN	e P	Z	19:41:44.5	76.4	85.7	0.8	13	5.1
BUG	e P	Z	19:41:46.5	76.7	85.1	1.2	14	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2005/07/31	23:41:34.4	39.388N	33.129E	10.0G	3.9	3.7		KAN-M

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	23:45:48.9	18.3	122.1	2.5	63			
	e		23:46:01.6							
	e S	N	23:49:24.1							
	e L	Z	23:54:08.0			11.0	489			
GRA1	e P	Z	23:45:52.6	18.6	115.3	1.5	13	3.9		
	e L	Z	23:53:43.7			19.2	416		3.7	

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

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

EPICENTER LINES:

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

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

COMMENT LINE:

Each EPICENTER LINE can be followed by a COMMENT LINE about interesting topics submitted by the preceding authority.

REGION LINE:

The region name of the epicenter location with the highest priority (undermost EPICENTER LINE).

PHASE LINE:

Sta	Station code of the reported phase
Phase	Preceded flag for the sharpness of the onset of the phase e - emergent i - impulsive w - weak ISC phase code Flag for the direction of the first motion '+' - compression '-' - dilatation Component where the phase was picked
Time	Arrival time of the reported phase
Dist	Distance from the epicenter location with the highest priority to the station in kilometer
BAz	Backazimuth from the epicenter location with the highest priority to the station in degree
T[s]	Phase Period
A[nm]	Phase Amplitude
mb	Body wave magnitude
MS	Surface wave magnitude
ML	Local Richter magnitude