

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

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(produced by SZGRF/BGR - ERLANGEN)

SEPTEMBER 2007    UPDATED    18.AUGUST.2008

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source		
2007/09/01	01:09:19.6	26.700N	44.310W	20.5	5.0	4.2		SZGRF		
Northern Mid-Atlantic Ridge										
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	01:17:42.4	45.8	257.6	1.7	39	5.1		
BFO	e P	Z	01:17:43.4	45.9	261.5	1.3	37	5.1		
	e pP	Z	01:17:49.6							
IBBN	e P	Z	01:17:46.1	46.3	257.2					
TNS	e P	Z	01:17:46.8	46.3	259.8	1.3	24	5.0		
STU	e P	Z	01:17:48.0	46.5	261.8	0.9	22	5.1		
	e pP	Z	01:17:54.7							
NRDL	e P	Z	01:17:58.0	47.7	259.2	1.2	28	5.1		
CLZ	e P	Z	01:17:58.0	47.7	260.0	1.7	36	5.0		
GRA1	e P	Z	01:17:59.7	48.0	262.7	1.3	21	4.9		
	e pP	Z	01:18:05.8							
	e L	Z	01:34:45.1			18.9	208		4.2	
BSEG	e P	Z	01:18:01.0	48.1	258.1	1.2	74	5.5		
MANZ	e P	Z	01:18:04.7	48.6	263.1	1.5	25	4.9		
WET	e P	Z	01:18:07.5	49.0	264.5	1.5	22	4.9		
	e pP	Z	01:18:13.7							
CLL	e P	Z	01:18:09.6	49.3	262.7	1.2	15	4.8		
	e pP	Z	01:18:15.9							
GEC2	e P	Z	01:18:11.5	49.5	265.4	1.4	32	5.2		
	e pP	Z	01:18:17.6							
BRG	e P	Z	01:18:14.0	49.8	263.9	1.4	21	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/01	01:27:43.3	25.516N	45.707W	12.0	4.8	4.4		SZGRF

## Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:36:35.1	49.7	262.7	1.2	14	4.8		
	e L	Z 01:53:12.8			19.3	401		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/01	01:56:48.7	27.030N	43.740W	25.0	5.7	4.8		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z 02:05:04.4	45.2	257.4	1.7	124	5.6		
BFO	e P	Z 02:05:05.4	45.3	261.4	1.4	124	5.7		
	e S	R 02:11:46.3							
TNS	e P	Z 02:05:08.9	45.7	259.6	1.5	116	5.7		
	e S	R 02:11:52.9							
IBBN	e P	Z 02:05:08.5	45.7	257.0	1.7	181	5.8		
STU	e P	Z 02:05:10.2	45.9	261.7	1.3	85	5.6		
UBBA	e P	Z 02:05:17.0	46.8	260.4	1.7	94	5.6		
	e S	R 02:12:07.3							
CLZ	e P	Z 02:05:19.8	47.2	259.8	1.5	92	5.7		
	e S	R 02:12:12.1							
FUR	e P	Z 02:05:21.0	47.2	263.9	1.5	80	5.6		
GRA1	e P	Z 02:05:21.3	47.4	262.5	1.9	202	5.9		
	e pP	Z 02:05:28.1							
	e PcP	Z 02:06:53.8							
	e pPcP	Z 02:06:59.7							
	e L	Z 02:21:56.6			19.2	995		4.8	
BSEG	e P	Z 02:05:22.5	47.5	257.9	1.3	296	6.2		
MOX	e P	Z 02:05:24.3	47.7	262.0	1.8	94	5.6		
	e S	R 02:12:20.8							
MANZ	e P	Z 02:05:26.3	48.0	263.0	1.6	104	5.7		
ROTZ	e P	Z 02:05:26.5	48.0	263.3	1.5	45	5.4		
	e S	R 02:12:24.8							
WET	e P	Z 02:05:29.2	48.4	264.4	1.6	88	5.5		
	e S	R 02:12:28.3							
CLL	e P	Z 02:05:31.5	48.7	262.6	1.5	65	5.4		
	e S	R 02:12:33.1							
GEC2	e P	Z 02:05:33.3	48.9	265.3	1.5	130	5.7		
	e S	R 02:12:36.9							
BRG	e P	Z 02:05:35.9	49.2	263.7	2.0	131	5.6		
	e S	R 02:12:43.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/01	02:19:44.8	47.897N	157.148E	14.0	4.6			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:31:43.5	78.1	22.6	0.8	4	4.6		
	e pP	Z 02:31:47.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/01	03:36: 6.3	39.940N	96.190E	33.0N	4.9			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:45:40.7	55.7	66.8	1.4	13	4.8		
CLL	e P	Z 03:45:42.9	56.1	66.5	1.2	16	4.9		
BSEG	e P	Z 03:45:46.5	56.5	66.4	1.3	31	5.2		
GEC2	e P	Z 03:45:47.3	56.7	65.5	1.3	8	4.6		
WET	e P	Z 03:45:50.3	57.0	65.2	1.2	10	4.7		
MOX	e P	Z 03:45:50.6	57.2	65.3	1.4	10	4.6		
ROTZ	e P	Z 03:45:51.5	57.2	65.1	1.2	12	4.8		
NRDL	e P	Z 03:45:51.8	57.2	65.5	1.2	31	5.2		
CLZ	e P	Z 03:45:52.5	57.4	65.2	1.1	32	5.3		
GRA1	e P	Z 03:45:55.8	57.8	64.5	0.9	14	5.0		
FUR	e P	Z 03:46:00.3	58.4	63.7					
BUG	e P	Z 03:46:05.7	59.3	63.1	1.2	25	4.9		
BFO	e P	Z 03:46:10.7	60.1	62.1	1.2	12	5.0		
WLF	e P	Z 03:46:16.2	60.7	61.5	1.2	30	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/01	15:26:33.4	2.400N	127.100E	76.0				NEIC

Northern Molucca Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 15:40:31.5	104.5	68.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/01	19:14:30.6	24.858N	110.396W	33.0N	5.4	6.1		SZGRF

Baja California, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e S	T 19:37:35.9	85.9	306.7					
BUG	e S	T 19:37:39.2	86.2	306.4					
NRDL	e P	Z 19:27:08.4	87.0	308.5	1.5	36	5.5		
	e S	T 19:37:49.3							
CLZ	e P	Z 19:27:10.7	87.5	308.7	1.2	34	5.5		

	e S	T	19:37:51.0							
TNS	e S	T	19:37:54.3	87.5	307.3					
UBBA	e P	Z	19:27:11.9	87.9	308.5	1.6	37	5.4		
	e S	T	19:37:56.7							
BFO	e S	T	19:38:01.1	88.6	307.3					
STU	e S	T	19:38:04.1	88.8	307.9					
MOX	e S	T	19:38:04.9	88.9	309.7					
CLL	e P	Z	19:27:18.0	89.1	310.7	1.7	25	5.2		
	e S	T	19:38:06.7							
GRA1	e P	Z	19:27:19.5	89.3	309.4	1.2	28	5.5		
	e PP	Z	19:30:51.2							
	e S	T	19:38:11.2							
	e L	Z	20:05:46.2			19.9	7597	6.1		
MANZ	e S	T	19:38:10.4	89.5	310.1					
	e SP	Z	19:39:12.6							
ROTZ	e S	T	19:38:11.5	89.7	310.1					
	e SP	Z	19:39:15.7							
BRG	e S	T	19:38:12.2	89.8	311.5					
WET	e S	T	19:38:19.8	90.4	310.7					
	e SP	Z	19:39:27.1							
GEC2	e S	T	19:38:25.1	91.0	311.3					

Date 2007/09/01 Origin Time 22:27:59.7 Lat 30.426N Long 42.545W Depth 21.0 mb 4.3 Ms ML Source SZGRF  
Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:36:06.5	44.3	265.0	1.2	8	4.3		
	e pP	Z 22:36:12.1							

Date 2007/09/02 Origin Time 01:05:19.0 Lat 11.600S Long 165.800E Depth 35.0 mb Ms 7.1 ML Source NEIC  
Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PP	Z 01:27:00.8	133.4	34.0					
BRG	e PP	Z 01:27:08.7	134.5	40.4					
NRDL	e PP	Z 01:27:07.6	134.7	34.5					
WET	e PP	Z 01:27:22.6	136.3	40.2					
BUG	e PP	Z 01:27:19.9	136.5	31.4					
GRA1	e PKPdf	Z 01:24:29.5	136.5	37.7					
	e PP	Z 01:27:18.7							
	e Sdiff	T 01:35:45.0							
	e SP	R 01:37:32.2							
	e SS	T 01:45:26.4							

	e L	Z	02:29:17.4				19.4	35206	7.1
TNS	e PP	Z	01:27:24.4	137.1	33.7				
FUR	e PP	Z	01:27:30.1	137.7	38.8				
STU	e PP	Z	01:27:30.2	138.1	35.6				
BFO	e PP	Z	01:27:33.5	138.7	34.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02	01:51:20.5	46.382N	13.454E	10.0G			2.8	SZGRF

Austria

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
KBA	e Pg	Z	01:51:33.8	0.7	173.8					2.0
	e Sg	N	01:51:43.0							
WTTA	e Pg	Z	01:51:47.1	1.5	124.7					2.3
	e Sg	N	01:52:08.6							
MOA	e Pg	Z	01:51:49.2	1.6	200.9					2.4
ARSA	e Pg	Z	01:51:49.4	1.7	239.2					2.1
	e Sg	N	01:52:13.8							
GEC2	e Pn	Z	01:52:00.6	2.5	184.0					2.7
WET	e Pn	Z	01:52:04.5	2.8	171.8					2.8
ROTZ	e Pn	Z	01:52:14.2	3.5	165.7					3.2
	e Sn	N	01:52:55.6							
MANZ	e Sn	E	01:53:00.6	3.7	165.5					3.2
WERN	e Pn	Z	01:52:20.9	4.0	169.2					
GUNZ	e Pn	Z	01:52:22.6	4.1	169.0					3.3
WERD	e Pn	Z	01:52:23.5	4.1	169.0					3.2
MOX	e Sn	N	01:53:18.6	4.4	163.4					3.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02	02:34:13.9	11.900S	165.600E	40.0				NEIC

Santa Cruz Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	02:53:31.5	136.7	38.1					
	e		02:54:40.0							
	e SKP	Z	02:57:04.8							
	e		02:58:17.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	07:37:45.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02	12:32:31.3	11.400S	165.500E	35.0				NEIC
Santa Cruz Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 12:51:52.1	136.2	37.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02	14:04:34.1	11.500S	166.000E	35.0				NEIC
Santa Cruz Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 14:23:52.3	136.5	37.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02	15:30:38.7	44.660N	78.210E	28.3	5.0			SZGRF
Eastern Kazakhstan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:38:31.1	42.3	72.3	0.7	14	4.8		
CLL	e P	Z 15:38:34.3	42.7	72.3	0.7	40	5.3		
GEC2	e P	Z 15:38:37.9	43.1	70.1	0.7	7	4.5		
WET	e P	Z 15:38:41.2	43.5	70.0	1.2	18	4.7		
BSEG	e P	Z 15:38:41.6	43.5	73.3	1.0	37	5.1		
MANZ	e P	Z 15:38:42.7	43.6	70.4	1.0	8	4.4		
ROTZ	e P	Z 15:38:43.1	43.7	70.3	1.5	17	4.6		
MOX	e P	Z 15:38:43.2	43.7	70.8	1.4	41	5.0		
NRDL	e P	Z 15:38:46.0	44.0	71.8	1.1	49	5.1		
CLZ	e P	Z 15:38:46.0	44.1	71.3	0.7	13	4.8		
GRA1	e P	Z 15:38:48.4	44.3	69.7	0.8	44	5.2		
	e pP	Z 15:38:56.0							
UBBA	e P	Z 15:38:50.5	44.6	70.1	0.9	7	4.6		
FUR	e P	Z 15:38:52.5	44.8	68.2	1.0	52	5.4		
IBBN	e P	Z 15:38:56.8	45.4	70.2	0.7	28	5.4		
TNS	e P	Z 15:38:59.5	45.8	68.7	0.8	11	4.9		
STU	e P	Z 15:39:00.0	45.9	67.8	0.6	23	5.3		
BUG	e P	Z 15:39:01.6	46.0	69.1	1.3	22	5.0		
BFO	e P	Z 15:39:05.3	46.5	66.9	0.7	13	5.1		
WLF	e P	Z 15:39:12.2	47.3	67.0	1.1	20	5.2		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/02	16:01:26.6	19.580S	177.180W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	16:20:59.9	145.2	12.4					
NRDL	e PKPbc	Z	16:21:04.4	146.6	12.5					
CLZ	e PKPbc	Z	16:21:06.4	147.2	13.2					
CLL	e PKPbc	Z	16:21:06.2	147.3	17.9					
BRG	e PKPbc	Z	16:21:06.8	147.5	19.8					
FBE	e PKPbc	Z	16:21:07.3	147.6	18.7					
NEUB	e PKPbc	Z	16:21:07.3	147.6	15.9					
MOX	e PKPbc	Z	16:21:08.7	148.2	15.8					
WERD	e PKPbc	Z	16:21:09.1	148.2	17.2					
GUNZ	e PKPbc	Z	16:21:09.3	148.3	17.2					
WERN	e PKPbc	Z	16:21:09.9	148.4	17.4					
MANZ	e PKPbc	Z	16:21:10.4	148.7	17.0					
ROTZ	e PKPbc	Z	16:21:11.0	148.9	17.3					
TNS	e PKPbc	Z	16:21:11.5	149.0	10.3					
GRA1	e PKPbc	Z	16:21:11.7	149.1	15.6					
WET	e PKPbc	Z	16:21:12.0	149.4	18.8					
GEC2	e PKPbc	Z	16:21:12.3	149.5	20.5					
FUR	e PKPbc	Z	16:21:15.2	150.6	16.4					
BFO	e PKPbc	Z	16:21:15.7	150.9	10.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03	01:01:51.0	56.380N	156.060W	33.0N	5.1			SZGRF

Alaska Peninsula, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	01:13:05.8	70.5	351.9	1.1	36	5.4		
CLZ	e P	Z	01:13:09.1	71.2	352.1	1.1	32	5.4		
BUG	e P	Z	01:13:09.0	71.3	350.3	1.8	83	5.6		
CLL	e P	Z	01:13:12.9	71.9	353.7	1.2	17	5.1		
UBBA	e P	Z	01:13:14.5	72.2	351.9	1.5	15	4.9		
BRG	e P	Z	01:13:15.9	72.4	354.2	1.0	15	5.1		
MOX	e P	Z	01:13:16.4	72.5	352.9	1.0	26	5.3		
TNS	e P	Z	01:13:17.5	72.6	351.1	0.8	14	5.1		
WLF	e P	Z	01:13:19.4	72.9	349.8	1.0	16	5.1		
MANZ	e P	Z	01:13:20.6	73.2	353.2	1.2	10	4.7		
GRA1	e P	Z	01:13:22.4	73.4	352.7	1.0	16	5.0		
ROTZ	e P	Z	01:13:22.3	73.4	353.3	0.9	10	4.8		
WET	e P	Z	01:13:26.7	74.1	353.7	1.4	20	5.0		
GEC2	e P	Z	01:13:28.0	74.4	354.1	0.8	8	4.8		
BFO	e P	Z	01:13:28.1	74.5	351.1	1.9	35	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:50:12.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03	09:45: 6.4	22.100S	168.600E	10.0				NEIC
New Caledon								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 10:04:43.3	144.2	35.9					
BRG	e PKPbc	Z 10:04:43.3	145.1	43.9					
CLL	e PKPbc	Z 10:04:43.5	145.2	42.1					
CLZ	e PKPbc	Z 10:04:46.1	145.8	37.7					
MOX	e PKPbc	Z 10:04:47.3	146.3	40.7					
MANZ	e PKPbc	Z 10:04:48.0	146.6	42.1					
GEC2	e PKPbc	Z 10:04:48.0	146.7	45.7					
ROTZ	e PKPbc	Z 10:04:48.7	146.7	42.5					
WET	e PKPbc	Z 10:04:48.7	146.8	44.1					
GRA1	e PKPbc	Z 10:04:50.2	147.2	41.1					
TNS	e PKPbc	Z 10:04:50.7	147.9	36.2					
WLF	e PKPbc	Z 10:04:56.0	149.2	33.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03	16:14:57.9	47.100N	149.130E	65.2N	6.7			SZGRF
Northwest of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 16:26:15.4	71.7	30.0	1.7	1259	6.8		
BSEG	e P	Z 16:26:23.5	73.1	27.9					
	e S	T 16:35:48.7							
	e ScS	T 16:36:25.5							
RUE	e P	Z 16:26:24.9	73.4	30.0	1.7	1432	6.7		
HLG	e P	Z 16:26:25.9	73.5	26.4	1.8	996	6.5		
NRDL	e P	Z 16:26:31.0	74.4	27.6	1.9	1078	6.7		
	e S	T 16:36:03.7							
	e ScS	T 16:36:36.5							
CLL	e P	Z 16:26:31.6	74.6	29.3	1.8	2014	6.9		
	e S	T 16:36:04.0							
	e ScS	T 16:36:37.3							
BRG	e P	Z 16:26:32.4	74.7	29.8	1.6	684	6.5		
	e S	T 16:36:04.7							
	e ScS	T 16:36:38.4							



FBE	e P	Z	16:26:33.4	74.9	29.5	1.8	1723	6.9
CLZ	e P	Z	16:26:34.3	74.9	27.7	1.7	1816	6.9
	e S	T	16:36:09.2					
	e ScS	T	16:36:40.3					
IBBN	e P	Z	16:26:35.6	75.3	26.1	0.8	452	6.7
	e S	T	16:36:11.2					
	e ScS	T	16:36:41.7					
WERD	e P	Z	16:26:37.6	75.6	28.7	1.9	1162	6.7
MOX	e P	Z	16:26:37.8	75.6	28.3	1.9	1356	6.8
	e S	T	16:36:15.8					
	e ScS	T	16:36:45.8					
GUNZ	e P	Z	16:26:38.1	75.7	28.7	0.9	279	6.4
WERN	e P	Z	16:26:38.4	75.7	28.8	0.8	295	6.5
UBBA	e P	Z	16:26:39.5	76.0	27.3	1.1	411	6.5
	e S	T	16:36:19.3					
	e ScS	T	16:36:48.6					
MANZ	e P	Z	16:26:40.3	76.1	28.6	1.6	581	6.5
	e S	T	16:36:19.6					
	e ScS	T	16:36:50.1					
BUG	e P	Z	16:26:40.5	76.2	25.7	1.8	1811	6.9
	e S	T	16:36:22.4					
	e ScS	T	16:36:49.9					
ROTZ	e P	Z	16:26:41.6	76.2	28.6	1.7	1298	6.8
	e S	T	16:36:22.6					
	e ScS	T	16:36:52.9					
GEC2	e P	Z	16:26:42.9	76.6	29.4	0.8	254	6.4
	e S	T	16:36:26.3					
	e ScS	T	16:36:54.2					
WET	e P	Z	16:26:43.4	76.6	28.9	1.7	1757	6.9
	e S	T	16:36:26.6					
	e ScS	T	16:36:55.6					
GRA1	e P	Z	16:26:43.6	76.6	28.0	1.8	2929	7.1
	e S	T	16:36:27.7					
	e ScS	T	16:36:55.5					
	e PKPPKP	Z	16:54:00.8					
TNS	e P	Z	16:26:45.1	76.9	26.3	0.9	341	6.5
	e S	T	16:36:29.9					
	e ScS	T	16:36:55.9					
FUR	e P	Z	16:26:50.7	77.9	27.8	1.8	2768	7.0
	e S	T	16:36:41.4					
	e ScS	T	16:37:06.8					
STU	e P	Z	16:26:50.9	78.0	26.6	1.7	1503	6.7
	e S	T	16:36:42.0					
	e ScS	T	16:37:06.5					
WLF	e P	Z	16:26:51.8	78.1	24.8	1.9	1401	6.7
	e S	T	16:36:43.2					
	e ScS	T	16:37:07.0					
BFO	e P	Z	16:26:54.3	78.7	26.0	1.7	1068	6.5
	e S	T	16:36:48.1					

e ScS T 16:37:11.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03	17:16:46.0	47.999N	154.520E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 17:28:25.9	75.4	25.5	0.8	9	5.0		
ROTZ	e P	Z 17:28:36.2	77.0	24.8	1.0	6	4.7		
GRA1	e P	Z 17:28:37.7	77.3	24.2	0.9	15	5.1		
WET	e P	Z 17:28:38.1	77.4	25.2	0.8	6	4.7		
GEC2	e P	Z 17:28:37.8	77.4	25.7	0.8	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:27:42.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/03	23:23:37.8	4.630N	83.910W	33.0N	5.2			SZGRF

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 23:36:17.9	86.5	273.0	1.3	55	5.5		
BUG	e P	Z 23:36:20.5	87.1	273.8	1.5	36	5.3		
IBBN	e P	Z 23:36:21.8	87.4	274.2	1.5	59	5.5		
BSEG	e P	Z 23:36:28.4	88.7	276.1	1.3	19	5.3		
CLZ	e P	Z 23:36:29.9	89.0	276.2	1.2	17	5.3		
GRA1	e P	Z 23:36:33.3	89.8	276.9	1.6	30	5.3		
MANZ	e P	Z 23:36:35.7	90.3	277.6	1.5	11	4.9		
WERD	e P	Z 23:36:36.1	90.4	277.7	1.4	12	4.9		
CLL	e P	Z 23:36:37.8	90.7	278.3	1.4	18	5.1		
WET	e P	Z 23:36:38.6	90.9	278.2	1.4	21	5.2		
BRG	e P	Z 23:36:40.4	91.3	279.0	1.6	18	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/04	06:19:58.0	45.785N	154.815E	33.0N	4.7			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLL	e P	Z	06:31:49.6	77.5	26.2	0.9	10	5.0
WERD	e P	Z	06:31:56.0	78.4	25.7	1.7	16	4.8
GUNZ	e P	Z	06:31:55.5	78.5	25.7	1.0	7	4.7
WERN	e P	Z	06:31:56.3	78.6	25.7	0.8	6	4.7
GRA1	e P	Z	06:32:01.3	79.4	24.9	0.6	10	4.9
WET	e P	Z	06:32:01.4	79.5	25.9	1.2	9	4.6
GEC2	e P	Z	06:32:01.0	79.5	26.4	1.0	5	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/04	09:41:51.4	33.950S	177.910W	33.0G		4.9		SZGRF

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPab	Z	10:02:31.6	160.9	28.7					
BRG	e PKPdf	Z	10:01:52.7	161.0	31.6					
	e PKPab	Z	10:02:33.1							
FBE	e PKPdf	Z	10:01:53.0	161.2	30.1					
	e PKPab	Z	10:02:34.3							
IBBN	e PKPdf	Z	10:01:53.5	161.2	14.7					
WERD	e PKPdf	Z	10:01:52.8	161.9	28.2					
GUNZ	e PKPdf	Z	10:01:53.9	162.0	28.4					
WERN	e PKPdf	Z	10:01:53.0	162.0	28.7					
	e PKPab	Z	10:02:37.1							
MANZ	e PKPdf	Z	10:01:54.1	162.4	28.4					
ROTZ	e PKPab	Z	10:02:39.6	162.5	29.0					
GEC2	e PKPdf	Z	10:01:53.6	162.8	34.4					
WET	e PKPdf	Z	10:01:54.5	162.8	31.7					
GRA1	e PKPdf	Z	10:01:51.6	162.9	26.6					
	e PKPab	Z	10:02:41.6							
	e PP	Z	10:06:22.6							
	e L	Z	11:19:22.4			22.0	208		4.9	
TNS	e PKPab	Z	10:02:43.8	163.1	18.4					
RJOB	e PKPab	Z	10:02:47.6	164.0	34.1					
BFO	e PKPab	Z	10:02:48.7	164.9	20.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/05	05:08:15.5	41.166N	19.394E	10.0G		3.9		SZGRF

Albania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z	05:09:52.8	6.7	154.1					
MOA	e Pn	Z	05:10:06.3	7.6	149.5					
RJOB	e Pn	Z	05:10:13.2	8.1	142.0					
	e Sn	N	05:11:40.6							
WTTA	e Pn	Z	05:10:14.2	8.2	134.9					

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GEC2	e Pn	Z	05:10:19.7	8.7	150.3				
	e Sn	N	05:11:53.2						
DAVA	e Pn	Z	05:10:25.9	9.1	128.5				
	e Sn	Z	05:12:05.7						
WET	e Pn	Z	05:10:26.7	9.2	147.7				
GRA1	e L	Z	05:15:18.3	10.3	143.1	19.2	1624		3.9
BRG	e Pn	Z	05:10:42.3	10.4	156.7				
BFO	e Pn	Z	05:10:46.2	10.6	128.3				
	e Sn	N	05:12:39.0						
MOX	e Pn	Z	05:10:50.0	10.9	147.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/05	12:27:5.7	28.471N	56.392E	33.0N	4.7			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	12:34:23.4	38.4	106.2	0.9	13	4.9		
RJOB	e P	Z	12:34:26.1	38.7	103.9	0.7	19	5.1		
BRG	e P	Z	12:34:27.5	38.8	108.8	0.8	7	4.5		
WET	e P	Z	12:34:28.1	39.0	105.7	1.0	8	4.5		
CLL	e P	Z	12:34:33.5	39.5	108.4	1.0	11	4.6		
ROTZ	e P	Z	12:34:33.5	39.5	105.8	1.0	11	4.7		
GRA1	e P	Z	12:34:38.8	40.1	104.8	0.9	25	5.0		
MOX	e P	Z	12:34:38.6	40.2	106.2	0.9	6	4.3		
STU	e P	Z	12:34:46.9	41.2	101.8	0.4	15	5.0		
CLZ	e P	Z	12:34:48.0	41.2	106.3	0.9	14	4.7		
NRDL	e P	Z	12:34:50.9	41.6	106.8	1.2	14	4.6		
TNS	e P	Z	12:34:53.7	42.0	102.7	1.0	16	4.6		
IBBN	e P	Z	12:35:01.9	42.9	104.3	1.1	23	4.7		
BUG	e P	Z	12:35:03.3	43.0	102.9	1.1	20	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/05	14:22:19.9	48.428N	154.122E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	14:33:54.4	74.5	23.9	1.3	11	4.8		
CLL	e P	Z	14:33:56.9	74.9	25.6	0.7	11	5.0		
BRG	e P	Z	14:33:57.9	75.0	26.1	1.2	8	4.6		
CLZ	e P	Z	14:33:58.8	75.1	24.0	1.2	19	5.0		
MOX	e P	Z	14:34:02.8	75.8	24.6	1.4	12	4.8		
BUG	e P	Z	14:34:04.7	76.2	21.9	2.2	71	5.3		
ROTZ	e P	Z	14:34:06.6	76.5	24.9	0.8	6	4.7		
GRA1	e P	Z	14:34:08.8	76.8	24.3	0.9	21	5.2		
WET	e P	Z	14:34:09.2	76.9	25.2	1.0	13	5.0		

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GEC2	e P	Z	14:34:08.8	76.9	25.7	0.7	6	4.8
TNS	e P	Z	14:34:09.9	77.0	22.6	0.8	11	5.1
BFO	e P	Z	14:34:19.2	78.8	22.4	1.2	16	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/05	14:22:12.5	11.400S	165.900E	4.0				NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 14:41:38.2	136.4	37.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/05	22:09: 9.5	54.004N	161.664W	33.0N	4.7			SZGRF

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 22:20:28.9	71.9	355.1	1.0	8	4.9		
CLZ	e P	Z 22:20:41.6	73.9	355.1	1.2	13	4.8		
BUG	e P	Z 22:20:41.5	74.2	353.3	0.5	9	5.1		
CLL	e P	Z 22:20:44.5	74.6	356.8	0.8	4	4.6		
UBBA	e P	Z 22:20:47.1	74.9	354.9	1.2	6	4.5		
BRG	e P	Z 22:20:47.4	75.1	357.3	0.8	4	4.5		
MOX	e P	Z 22:20:48.7	75.2	355.9	0.7	7	4.9		
TNS	e P	Z 22:20:50.1	75.4	354.0	0.8	5	4.7		
WLF	e P	Z 22:20:52.4	75.8	352.6	0.7	6	4.8		
MANZ	e P	Z 22:20:52.0	75.9	356.2	1.0	3	4.4		
ROTZ	e P	Z 22:20:53.5	76.1	356.3	0.9	2	4.3		
GRA1	e P	Z 22:20:54.5	76.1	355.7	0.7	6	4.9		
WET	e P	Z 22:20:56.8	76.7	356.7	1.5	8	4.6		
GEC2	e P	Z 22:20:59.0	77.1	357.2	0.8	3	4.5		
BFO	e P	Z 22:21:00.4	77.3	354.0	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/06	03:42:37.5	18.626N	104.903W	27.3	5.1	4.7		SZGRF

Near coast of Jalisco, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e P	Z 03:55:32.4	89.7	299.5	1.4	14	5.0		
	e pP	Z 03:55:41.0							
GRA1	e P	Z 03:55:41.0	91.5	301.7	1.6	16	5.1		
	e pP	Z 03:55:49.0							
	e L	Z 04:35:44.4			20.9	264		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/06	12:36:22.1	16.570N	67.600W	33.0N	5.0			SZGRF

Caribbean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	12:47:12.7	67.0	268.8	1.0	15	5.2		
IBBN	e P	Z	12:47:19.4	68.1	268.9	0.8	18	5.4		
BFO	e P	Z	12:47:20.9	68.4	271.0	1.3	9	4.8		
TNS	e P	Z	12:47:21.8	68.5	270.3	1.4	18	5.1		
UBBA	e P	Z	12:47:28.0	69.4	271.3					
NRDL	e P	Z	12:47:28.1	69.5	270.7	1.0	13	5.0		
CLZ	e P	Z	12:47:29.1	69.7	271.2	1.0	11	4.9		
GRA1	e P	Z	12:47:33.4	70.3	272.6	0.8	9	4.9		
MANZ	e P	Z	12:47:36.6	70.8	273.2	1.0	18	5.1		
ROTZ	e P	Z	12:47:37.2	70.9	273.3	1.2	12	4.9		
WERD	e P	Z	12:47:36.8	70.9	273.2	1.2	10	4.8		
WERN	e P	Z	12:47:37.2	71.0	273.3	1.4	10	4.8		
CLL	e P	Z	12:47:38.9	71.3	273.4	1.0	7	4.8		
FBE	e P	Z	12:47:40.9	71.6	273.8	1.1	14	5.0		
BRG	e P	Z	12:47:42.9	71.9	274.3	1.0	11	4.9		
GEC2	e P	Z	12:47:43.1	71.9	274.7	1.4	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/06	13:41:16.2	19.090S	174.730W	155.0				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:00:33.5	144.9	8.3					
NRDL	e PKPbc	Z	14:00:38.0	146.4	8.3					
CLZ	e PKPbc	Z	14:00:40.2	147.0	8.9					
CLL	e PKPbc	Z	14:00:40.5	147.2	13.6					
BRG	e PKPbc	Z	14:00:41.4	147.5	15.4					
BUG	e PKPbc	Z	14:00:41.4	147.6	3.5					
MOX	e PKPbc	Z	14:00:42.6	148.0	11.4					
UBBA	e PKPbc	Z	14:00:42.5	148.1	8.5					
TNS	e PKPbc	Z	14:00:45.1	148.8	5.8					
ROTZ	e PKPbc	Z	14:00:45.4	148.8	12.7					
GRA1	e PKPbc	Z	14:00:45.9	149.0	11.0					
WLF	e PKPbc	Z	14:00:47.0	149.4	1.6					
GEC2	e PKPbc	Z	14:00:46.6	149.5	15.8					
FUR	e PKPbc	Z	14:00:49.6	150.5	11.6					
BFO	e PKPbc	Z	14:00:49.4	150.7	5.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/06	17:51:22.6	24.220N	122.340E	33.0N	6.4	6.1		SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	18:03:37.8	81.5	61.0	2.3	826	6.5		
BRG	e P	Z	18:03:41.5	82.1	60.9	2.7	747	6.4		
FBE	e P	Z	18:03:43.0	82.4	60.4	2.4	912	6.6		
	e PP	Z	18:06:53.6							
CLL	e P	Z	18:03:42.6	82.4	60.2	1.7	198	6.1		
BSEG	e P	Z	18:03:44.1	82.5	58.5	3.8	2558	6.8		
	e PP	Z	18:06:53.7							
WERD	e P	Z	18:03:47.2	83.3	59.6	2.1	310	6.2		
GEC2	e P	Z	18:03:47.3	83.3	60.5	1.7	218	6.1		
	e PP	Z	18:07:00.4							
GUNZ	e P	Z	18:03:47.4	83.3	59.6	2.0	361	6.3		
	e PP	Z	18:07:00.5							
WERN	e P	Z	18:03:47.5	83.3	59.7	2.0	305	6.2		
NRDL	e P	Z	18:03:48.3	83.4	58.2	2.7	1249	6.7		
	e PP	Z	18:07:00.5							
MOX	e P	Z	18:03:48.7	83.5	59.1	2.7	817	6.5		
CLZ	e P	Z	18:03:49.3	83.6	58.3	2.5	1082	6.6		
	e PP	Z	18:07:02.3							
WET	e P	Z	18:03:49.3	83.6	59.9	2.4	674	6.4		
	e PP	Z	18:07:03.0							
MANZ	e P	Z	18:03:49.3	83.6	59.4	2.8	932	6.5		
	e PP	Z	18:07:02.6							
ROTZ	e P	Z	18:03:49.8	83.7	59.5					
	e PP	Z	18:07:02.3							
GRA1	e P	Z	18:03:52.6	84.2	58.8	2.1	716	6.5		
	e PP	Z	18:07:06.7							
	e S	N	18:14:14.3							
	e PKKP	Z	18:22:05.3							
	e PKPPKP	Z	18:30:12.5							
	e L	Z	18:46:23.8			21.8	9038		6.1	
UBBA	e P	Z	18:03:52.5	84.3	58.0	2.7	945	6.5		
	e PP	Z	18:07:06.3							
RJOB	e P	Z	18:03:53.0	84.4	59.7	2.6	921	6.6		
	e PP	Z	18:07:07.8							
IBBN	e P	Z	18:03:54.5	84.7	56.4	2.0	710	6.5		
	e PP	Z	18:07:11.5							
FUR	e P	Z	18:03:56.3	85.0	58.7	2.1	1129	6.6		
	e PP	Z	18:07:14.3							
BUG	e P	Z	18:03:58.0	85.4	56.0	2.0	508	6.3		
	e PP	Z	18:07:17.0							
TNS	e P	Z	18:03:58.7	85.5	56.8	2.5	896	6.4		
	e PP	Z	18:07:17.8							
STU	e P	Z	18:04:00.2	85.9	57.2	2.6	918	6.4		
	e PP	Z	18:07:20.6							

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BFO	e P	Z	18:04:03.5	86.6	56.6	2.6	753	6.4
	e PP	Z	18:07:26.2					
WLF	e P	Z	18:04:06.2	87.0	55.0	2.5	1087	6.7
	e PP	Z	18:07:30.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/06	23:43:25.9	18.029S	174.272W	33.0				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	00:03:00.7	145.7	3.4					
CLZ	e PKPbc	Z	00:03:01.7	146.0	7.9					
	e PP	Z	00:06:25.4							
CLL	e PKPbc	Z	00:03:01.9	146.2	12.5					
	e sPKPbc	Z	00:03:55.7							
BRG	e PKPbc	Z	00:03:02.9	146.5	14.3					
	e sPKPbc	Z	00:03:56.2							
BUG	e PKPbc	Z	00:03:03.0	146.6	2.7					
	e sPKPbc	Z	00:03:58.0							
UBBA	e PKPbc	Z	00:03:04.1	147.0	7.5					
	e PP	Z	00:06:33.6							
MOX	e PKPbc	Z	00:03:04.4	147.0	10.3					
MANZ	e PKPpdf	Z	00:03:03.5	147.6	11.4					
	e PKPbc	Z	00:03:06.3							
TNS	e PKPbc	Z	00:03:06.6	147.7	4.8					
	e sPKPbc	Z	00:04:00.4							
	e PP	Z	00:06:37.1							
ROTZ	e PKPpdf	Z	00:03:03.7	147.8	11.6					
	e PKPbc	Z	00:03:07.1							
GRA1	e PKPpdf	Z	00:03:04.1	148.0	9.9					
	e PKPbc	Z	00:03:07.6							
WET	e PKPpdf	Z	00:03:04.6	148.4	13.0					
WLF	e PKPbc	Z	00:03:08.8	148.4	0.8					
	e sPKPbc	Z	00:04:02.8							
	e PP	Z	00:06:41.2							
GEC2	e PKPpdf	Z	00:03:04.3	148.5	14.6					
	e PKPbc	Z	00:03:08.6							
STU	e PKPpdf	Z	00:03:06.1	149.1	6.4					
	e PKPbc	Z	00:03:10.4							
FUR	e PKPbc	Z	00:03:11.2	149.5	10.4					
BFO	e PKPbc	Z	00:03:11.5	149.6	4.9					
	e sPKPbc	Z	00:04:06.7							
RJOB	e PKPpdf	Z	00:03:06.6	149.7	13.4					
	e PKPbc	Z	00:03:11.5							



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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	02:40: 1.7	19.180S	177.120W	33.0G				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:58:35.0	144.8	12.2					
NRDL	e PKPbc	Z 02:58:38.9	146.2	12.3					
CLZ	e PKPbc	Z 02:58:41.1	146.8	13.0					
CLL	e PKPbc	Z 02:58:40.9	146.9	17.7					
BRG	e PKPbc	Z 02:58:41.6	147.1	19.5					
BUG	e PKPbc	Z 02:58:42.8	147.6	7.7					
MOX	e PKPbc	Z 02:58:43.4	147.8	15.6					
MANZ	e PKPdf	Z 02:58:41.0	148.3	16.8					
	e PKPbc	Z 02:58:44.8							
ROTZ	e PKPbc	Z 02:58:45.5	148.5	17.0					
TNS	e PKPbc	Z 02:58:45.8	148.6	10.1					
	e PKPab	Z 02:58:51.0							
GRA1	e PKP	Z 02:58:46.4	148.8	15.3					
	e PKPab	Z 02:58:51.7							
WET	e PKPbc	Z 02:58:46.7	149.0	18.6					
GEC2	e PKPbc	Z 02:58:46.4	149.1	20.2					
WLF	e PKPbc	Z 02:58:47.7	149.4	6.1					
STU	e PKPbc	Z 02:58:49.0	150.0	12.0					
FUR	e PKPbc	Z 02:58:49.4	150.2	16.1					
	e PKPab	Z 02:58:57.7							
RJOB	e PKPbc	Z 02:58:49.5	150.3	19.2					
	e PKPab	Z 02:58:59.0							
BFO	e PKPbc	Z 02:58:50.1	150.5	10.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPdf	Z 05:06:38.0							
CLL	e PKPdf	Z 05:06:46.7							
GRA1	e PKPdf	Z 05:06:39.9							
NRDL	e PKPdf	Z 05:06:45.8							
RJOB	e PKPdf	Z 05:06:42.3							
WLF	e PKPdf	Z 05:06:40.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	08:08: 9.4	24.440S	172.350E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e	PKPbc	Z	08:27:49.5	147.6	31.6
RUE	e	PKPbc	Z	08:27:49.9	147.6	38.4
BRG	e	PKPbc	Z	08:27:52.9	148.8	40.3
CLL	e	PKPbc	Z	08:27:53.2	148.8	38.3
NRDL	e	PKPbc	Z	08:27:53.6	148.9	32.5
CLZ	e	PKPbc	Z	08:27:54.8	149.3	33.5
IBBN	e	PKPbc	Z	08:27:55.8	149.8	28.7
MOX	e	PKPbc	Z	08:27:55.8	149.9	36.8
MANZ	e	PKPbc	Z	08:27:57.0	150.2	38.3
UBBA	e	PKPbc	Z	08:27:56.4	150.3	33.9
ROTZ	e	PKPbc	Z	08:27:57.4	150.3	38.7
GEC2	e	PKPbc	Z	08:27:57.4	150.4	42.2
WET	e	PKPbc	Z	08:27:57.9	150.5	40.5
BUG	e	PKPbc	Z	08:27:58.1	150.7	28.6
GRA1	e	PKPbc	Z	08:27:58.4	150.8	37.1
TNS	e	PKPbc	Z	08:27:59.6	151.4	31.8
RJOB	e	PKPbc	Z	08:28:00.1	151.6	42.0
FUR	e	PKPbc	Z	08:28:01.3	152.0	38.9
STU	e	PKPbc	Z	08:28:01.7	152.3	34.6
WLF	e	PKPbc	Z	08:28:03.3	152.6	28.1
BFO	e	PKPbc	Z	08:28:03.1	153.0	33.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	09:21:23.7	12.232N	57.457E	33.0N	4.8			SZGRF
Owen Fracture Zone region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FBE	e P	Z 09:30:35.2	52.6	121.2	1.9	37	5.0		
NKC	e P	Z 09:30:35.9	52.8	119.8	1.5	13	4.7		
WERN	e P	Z 09:30:36.5	52.9	119.7	1.2	10	4.6		
GUNZ	e P	Z 09:30:37.2	52.9	119.8	1.3	14	4.7		
CLL	e P	Z 09:30:37.5	53.0	121.0	1.9	41	5.0		
MOX	e P	Z 09:30:41.1	53.4	119.2	1.2	8	4.5		
BFO	e P	Z 09:30:46.5	54.3	114.5	1.4	21	5.0		
TNS	e P	Z 09:30:51.2	55.0	115.8	2.1	50	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	09:25:12.9	6.170N	34.860W	33.0N	5.3			SZGRF
Central Mid-Atlantic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 09:34:43.9	55.4	232.4	1.1	30	5.2		
	e S	R 09:42:23.0							
BFO	e P	Z 09:34:46.8	55.8	235.4	1.3	44	5.3		
	e S	R 09:42:27.7							

STU	e S	R	09:42:36.3	56.5	236.0				
TNS	e P	Z	09:34:54.8	56.9	234.5	1.2	30	5.2	
	e S	R	09:42:45.0						
BUG	e P	Z	09:34:55.9	57.1	232.6	1.4	55	5.4	
	e S	R	09:42:54.8						
FUR	e P	Z	09:34:58.3	57.3	238.4	1.1	42	5.4	
IBBN	e P	Z	09:35:01.3	57.8	232.7	1.0	50	5.5	
RJOB	e P	Z	09:35:02.3	58.0	240.1	1.2	30	5.2	
	e S	Z	09:43:06.9						
UBBA	e P	Z	09:35:02.8	58.1	235.7	1.3	20	5.0	
	e S	R	09:43:04.2						
GRA1	e P	Z	09:35:03.6	58.1	237.5	1.3	98	5.7	
	e S	R	09:43:03.3						
ROTZ	e P	Z	09:35:07.5	58.7	238.4	1.2	29	5.2	
	e S	R	09:43:09.1						
WET	e P	Z	09:35:07.8	58.8	239.4	2.2	60	5.2	
MANZ	e P	Z	09:35:08.1	58.8	238.2	1.1	17	5.0	
	e S	T	09:43:08.8						
MOX	e P	Z	09:35:08.5	58.9	237.4	1.2	18	5.0	
	e S	R	09:43:11.6						
CLZ	e P	Z	09:35:08.5	58.9	235.6	1.1	17	5.0	
GEC2	e P	Z	09:35:09.9	59.1	240.3	1.1	14	4.9	
	e S	R	09:43:12.0						
NRDL	e P	Z	09:35:10.5	59.1	235.0	1.2	36	5.3	
CLL	e P	Z	09:35:16.4	59.9	238.4	0.8	11	5.0	
	e S	R	09:43:31.5						
BSEG	e P	Z	09:35:16.7	60.0	234.5	1.0	108	5.8	
	e S	R	09:43:28.4						
BRG	e P	Z	09:35:18.4	60.2	239.5	2.5	143	5.6	
	e S	R	09:43:32.3						

Date 2007/09/07 Origin Time 09:30:54.1 Lat 28.593N Long 138.941E Depth 33.0N mb 5.1 Ms ML Source SZGRF  
 Bonin Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 09:42:53.1	86.9	46.1	1.3	19	5.1		
CLL	e P	Z 09:42:53.0	87.1	45.4	1.6	28	5.1		
MANZ	e P	Z 09:42:59.9	88.4	44.7	1.2	7	4.8		
GEC2	e P	Z 09:42:59.6	88.5	45.8	0.7	5	4.9		
ROTZ	e P	Z 09:43:00.6	88.5	44.7	1.2	9	4.9		
IBBN	e P	Z 09:43:00.8	88.6	41.4	0.6	17	5.4		
WET	e P	Z 09:43:01.0	88.6	45.2	1.1	5	4.7		
UBBA	e P	Z 09:43:01.8	88.7	43.1	1.6	13	4.9		
GRA1	e P	Z 09:43:03.2	89.0	44.0	1.4	25	5.3		
RJOB	e P	Z 09:43:06.1	89.7	45.2	0.8	13	5.2		
FUR	e P	Z 09:43:08.6	90.1	44.0	0.6	24	5.6		

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WLF	e P	Z	09:43:13.7	91.2	40.1	0.7	8	5.2
BFO	e P	Z	09:43:12.9	91.3	41.8	1.1	15	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	12:22:22.3	47.840N	151.630E	33.0N	5.4			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 12:33:52.0	73.1	26.0	0.9	23	5.3		
RUE	e P	Z 12:33:54.1	73.5	28.0	0.7	32	5.5		
NRDL	e P	Z 12:33:59.4	74.4	25.7	0.9	23	5.2		
CLL	e P	Z 12:34:01.0	74.7	27.4	0.7	55	5.7		
BRG	e P	Z 12:34:01.6	74.8	27.9	0.9	16	5.0		
CLZ	e P	Z 12:34:02.8	75.0	25.8	0.9	50	5.6		
IBBN	e P	Z 12:34:04.1	75.2	24.2	0.9	38	5.5		
TANN	e P	Z 12:34:06.5	75.7	26.9	1.1	12	5.0		
MOX	e P	Z 12:34:06.6	75.7	26.4	1.0	27	5.3		
GUNZ	e P	Z 12:34:07.3	75.7	26.8	0.8	18	5.2		
UBBA	e P	Z 12:34:08.0	76.0	25.4	1.7	50	5.4		
BUG	e P	Z 12:34:09.5	76.1	23.8	0.9	36	5.5		
MANZ	e P	Z 12:34:09.5	76.1	26.7	1.1	14	5.0		
ROTZ	e P	Z 12:34:10.6	76.3	26.7	1.1	29	5.3		
GRA1	e P	Z 12:34:12.6	76.7	26.1	0.8	55	5.7		
WET	e P	Z 12:34:12.6	76.7	27.1	0.9	32	5.4		
GEC2	e P	Z 12:34:12.2	76.7	27.5	1.0	15	5.1		
TNS	e P	Z 12:34:13.7	76.9	24.4	0.7	41	5.6		
RJOB	e P	Z 12:34:20.0	77.9	26.9	0.9	26	5.4		
FUR	e P	Z 12:34:19.8	78.0	26.0	0.8	33	5.5		
WLF	e P	Z 12:34:20.8	78.0	22.9	1.3	45	5.4		
STU	e P	Z 12:34:19.8	78.1	24.7	0.8	42	5.6		
BFO	e P	Z 12:34:23.2	78.7	24.1	1.0	42	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	14:36:25.9	29.790N	128.910E	45.1	5.0			SZGRF

Northwest of Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 14:48:37.2	81.0	50.5	0.7	13	5.1		
BRG	e P	Z 14:48:37.9	81.1	52.8	0.9	4	4.5		
	e pP	Z 14:48:50.9							
CLL	e P	Z 14:48:38.6	81.3	52.2	0.8	12	5.1		
	e pP	Z 14:48:52.1							
NRDL	e P	Z 14:48:42.5	82.0	50.2	0.9	9	4.9		
TANN	e P	Z 14:48:43.0	82.1	51.7	1.0	5	4.6		
CLZ	e P	Z 14:48:44.1	82.3	50.3	0.8	20	5.4		

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	e pP	Z	14:48:57.2							
MOX	e P	Z	14:48:44.6	82.4	51.1	0.9		5	4.7	
	e pP	Z	14:48:57.5							
GEC2	e P	Z	14:48:44.8	82.5	52.4	0.8		5	4.8	
MANZ	e P	Z	14:48:45.8	82.6	51.4	0.8		3	4.6	
	e pP	Z	14:48:58.6							
ROTZ	e P	Z	14:48:46.4	82.7	51.4	0.9		6	4.9	
	e pP	Z	14:48:59.2							
WET	e P	Z	14:48:45.7	82.7	51.8	1.2		8	4.8	
UBBA	e P	Z	14:48:47.7	83.1	49.9					
IBBN	e P	Z	14:48:48.4	83.2	48.4	0.9		26	5.5	
GRA1	e P	Z	14:48:49.3	83.2	50.7	1.1		15	5.1	
RJOB	e P	Z	14:48:51.1	83.6	51.6	0.8		18	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	18:18:31.6	36.710N	31.680W	18.0	4.6			SZGRF

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	18:24:39.9	30.1	259.0	1.0	10	4.6		
BFO	e P	Z	18:24:50.8	31.3	263.2	1.3	11	4.6		
	e pP	Z	18:24:55.7							
UBBA	e P	Z	18:25:03.4	32.7	260.8	1.9	22	4.8		
	e pP	Z	18:25:08.4							
GRA1	e P	Z	18:25:08.9	33.3	263.6	1.5	13	4.7		
	e pP	Z	18:25:12.9							
ROTZ	e P	Z	18:25:14.2	33.9	264.3	1.9	13	4.5		
RJOB	e P	Z	18:25:16.5	34.2	267.8	1.2	8	4.5		
	e pP	Z	18:25:21.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:22:11.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/07	23:19:51.2	3.846S	28.668E	33.0N	4.6			SZGRF

Lake Tanganyika region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	23:29:14.0	54.3	161.5	1.1	6	4.6		
WET	e P	Z	23:29:15.8	54.7	160.6	1.4	5	4.3		

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ROTZ	e P	Z	23:29:23.0	55.5	159.9	1.1	6	4.5
GRA1	e P	Z	23:29:24.2	55.6	158.8	1.0	11	4.8
MANZ	e P	Z	23:29:24.8	55.7	159.9	1.0	7	4.6
TANN	e P	Z	23:29:27.3	56.0	160.4	1.7	13	4.7
MOX	e P	Z	23:29:30.2	56.4	159.4	1.7	13	4.7
CLL	e P	Z	23:29:32.1	56.8	161.2	1.1	5	4.4
TNS	e P	Z	23:29:33.1	56.8	155.7	1.2	8	4.6
NRDL	e P	Z	23:29:45.9	58.5	158.1	1.2	22	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/08	01:31:39.9	72.977N	4.964E	33.0N	3.9			SZGRF

Norwegian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:36:46.9	23.4	355.4	1.3	5	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/08	03:14:51.2	19.200S	175.750W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 03:34:27.5	145.0	10.0					
NRDL	e PKPbc	Z 03:34:31.3	146.4	10.0					
IBBN	e PKPbc	Z 03:34:33.7	146.8	6.1					
CLZ	e PKPbc	Z 03:34:33.7	147.0	10.7					
CLL	e PKPbc	Z 03:34:34.1	147.2	15.4					
BRG	e PKPbc	Z 03:34:35.1	147.4	17.2					
MOX	e PKPbc	Z 03:34:36.1	148.0	13.2					
UBBA	e PKPbc	Z 03:34:36.7	148.1	10.3					
TANN	e PKPbc	Z 03:34:36.6	148.1	14.8					
MANZ	e PKPbc	Z 03:34:38.3	148.6	14.3					
ROTZ	e PKPbc	Z 03:34:38.5	148.8	14.6					
TNS	e PKPbc	Z 03:34:38.5	148.8	7.7					
GRA1	e PKPbc	Z 03:34:39.9	149.0	12.9					
WET	e PKPbc	Z 03:34:40.0	149.3	16.1					
GEC2	e PKPbc	Z 03:34:40.5	149.4	17.7					
WLF	e PKPbc	Z 03:34:40.7	149.5	3.5					
STU	e PKPbc	Z 03:34:42.1	150.2	9.4					
RJOB	e PKPbc	Z 03:34:43.7	150.6	16.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/08	08:39:38.2	0.300N	97.700E	26.0	4.8			NEIC

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	08:52:15.8	85.8	94.3	1.5	14	4.8		
WET	e P	Z	08:52:18.4	86.4	93.7	1.2	10	4.8		
TANN	e P	Z	08:52:19.7	86.7	93.5	1.5	9	4.7		
GUNZ	e P	Z	08:52:20.6	86.8	93.4	1.0	5	4.6		
ROTZ	e P	Z	08:52:20.1	86.9	93.2	1.1	7	4.7		
MANZ	e P	Z	08:52:21.4	86.9	93.2					
MOX	e P	Z	08:52:23.1	87.3	92.8					
GRA1	e P	Z	08:52:24.4	87.5	92.5	1.0	12	5.0		
GRFO	e P	Z	08:52:24.2	87.5	92.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/08	11:31:44.6	0.724N	98.291E	33.0N	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	11:44:20.6	85.9	93.6	1.3	10	4.8		
MANZ	e P	Z	11:44:27.2	87.0	92.5	2.0	27	5.0		
GRA1	e P	Z	11:44:29.6	87.6	91.8	2.2	44	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/08	14:15:37.1	2.060S	37.400E	33.0N	4.8			SZGRF

Kenya

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	14:24:58.7	54.2	149.2	1.2	8	4.6		
GEC2	e P	Z	14:25:03.6	54.9	150.6	1.1	11	4.8		
WET	e P	Z	14:25:07.1	55.4	149.7	1.5	9	4.6		
ROTZ	e P	Z	14:25:12.6	56.2	149.2	1.5	15	4.8		
BFO	e P	Z	14:25:14.3	56.4	144.3	1.6	16	4.8		
MANZ	e P	Z	14:25:14.2	56.4	149.2	1.4	10	4.7		
GRA1	e P	Z	14:25:14.5	56.4	148.1	1.1	11	4.8		
GUNZ	e P	Z	14:25:15.8	56.6	149.5	2.0	22	4.8		
TANN	e P	Z	14:25:16.8	56.7	149.7	1.8	14	4.7		
WERD	e P	Z	14:25:17.3	56.7	149.5	1.6	20	4.9		
UBBA	e P	Z	14:25:24.4	57.8	147.1	1.6	18	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/08	16:41:19.7	34.268N	3.201W	10.0G	4.2			SZGRF

Morocco

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	16:45:38.3	18.7	219.9				
WET	e P	Z	16:45:38.7	19.0	224.6				
ROTZ	e P	Z	16:45:42.4	19.2	221.9	1.1		6	
GEC2	e P	Z	16:45:42.6	19.2	226.9				
WERD	e P	Z	16:45:48.4	19.7	220.9				
FBE	e P	Z	16:45:57.9	20.5	222.2				
CLL	e P	Z	16:45:59.8	20.7	220.8	0.9		11	4.0
BRG	e P	Z	16:46:00.9	20.8	223.4	1.2		9	3.8
BSEG	e P	Z	16:46:10.7	21.8	211.3				
RUE	e P	Z	16:46:12.4	21.9	220.4	1.0		72	4.7

Date 2007/09/09  
 Origin Time 02:00:37.6  
 Lat 30.140N  
 Long 70.390E  
 Depth 33.0N  
 mb 5.3  
 Ms 4.8  
 ML  
 Source SZGRF  
 Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:09:01.1	46.3	94.3	0.8	26	5.4		
	e S	R	02:15:47.3							
GEC2	e P	Z	02:09:00.8	46.3	92.2	0.9	20	5.2		
RUE	e P	Z	02:09:02.1	46.5	95.7	0.8	63	5.8		
FBE	e P	Z	02:09:04.6	46.7	93.8	0.9	24	5.4		
WET	e P	Z	02:09:05.8	46.9	91.8	1.2	6	4.6		
RJOB	e P	Z	02:09:05.6	46.9	90.4	1.0	16	5.1		
CLL	e P	Z	02:09:05.4	46.9	93.9	0.8	12	5.0		
TANN	e P	Z	02:09:08.4	47.2	92.7	1.0	16	5.1		
WERN	e P	Z	02:09:09.5	47.2	92.5	1.9	60	5.4		
GUNZ	e P	Z	02:09:08.9	47.3	92.5	0.9	22	5.3		
WERD	e P	Z	02:09:09.5	47.3	92.6	0.8	14	5.1		
ROTZ	e P	Z	02:09:09.4	47.3	91.9	0.9	25	5.3		
	e S	R	02:16:01.8							
MANZ	e P	Z	02:09:10.3	47.4	92.0	1.0	44	5.5		
	e S	R	02:16:02.1							
MOX	e P	Z	02:09:12.4	47.7	92.2	1.0	28	5.4		
	e S	R	02:16:05.2							
FUR	e P	Z	02:09:13.2	47.9	89.7	1.0	32	5.3		
GRA1	e P	Z	02:09:14.6	48.0	91.0	0.8	52	5.6		
	e S	R	02:16:13.1							
	e L	Z	02:32:50.7			20.2	1078		4.8	
CLZ	e P	Z	02:09:18.6	48.6	92.3	0.9	44	5.5		
BSEG	e P	Z	02:09:19.9	48.7	94.1	0.8	32	5.4		
NRDL	e S	R	02:16:23.1	48.8	92.6					
UBBA	e P	Z	02:09:22.1	48.8	91.1	1.2	20	5.0		
STU	e P	Z	02:09:23.8	49.3	88.7	1.0	40	5.3		
BFO	e P	Z	02:09:27.6	49.9	87.7	0.9	20	5.0		
IBBN	e P	Z	02:09:31.0	50.2	90.6	0.8	69	5.6		
BUG	e P	Z	02:09:33.4	50.5	89.5	0.9	43	5.4		
WLF	e P	Z	02:09:39.6	51.2	87.2	0.9	21	5.1		



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/09	04:40:40.4	15.700S	167.400E	57.0				NEIC
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 05:00:04.1	140.9	38.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source	
2007/09/09									
Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:18:21.6							
ROTZ	e P	Z 05:18:35.5							
WET	e P	Z 05:18:27.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source	
2007/09/10	00:26:33.6	4.424S	35.882E	33.0N	4.5			SZGRF	
Tanzania									
Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:36:24.6	58.2	150.7	1.1	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source	
2007/09/10	01:49: 7.8	1.960N	78.910W	33.0N	6.2	6.8		SZGRF	
Colombia-Ecuador border region									
Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 02:01:41.3	85.3	267.5	1.1	195	6.2		
	e SKSac	R 02:11:59.3							
BUG	e P	Z 02:01:45.0	86.1	268.2	1.8	336	6.3		
	e SKSac	R 02:12:05.6							
IBBN	e P	Z 02:01:46.8	86.4	268.6	1.6	517	6.5		
	e SKSac	R 02:12:08.8							
HLG	e SKSac	R 02:12:08.8	86.5	268.5					
BFO	e P	Z 02:01:47.6	86.7	269.2	1.7	107	5.8		
	e SKSac	R 02:12:11.9							
STU	e P	Z 02:01:50.9	87.3	269.9	1.3	222	6.2		
	e SKSac	R 02:12:15.9							
UBBA	e P	Z 02:01:53.7	87.8	270.4	1.7	237	6.1		
	e SKSac	R 02:12:19.0							

NRDL	e P	Z	02:01:54.4	87.8	270.4	1.5	335	6.4	
	e SKSac	R	02:12:18.3						
BSEG	e P	Z	02:01:54.7	88.0	270.5	1.3	282	6.3	
	e SKSac	R	02:12:20.6						
CLZ	e P	Z	02:01:55.2	88.0	270.6	1.3	346	6.4	
	e SKSac	R	02:12:21.4						
GRA1	e P	Z	02:01:57.9	88.6	271.4	1.3	227	6.2	
	e SKSac	R	02:12:26.1						
	e PKKPdf	Z	02:19:49.0						
	e PKPPKPdf	Z	02:27:55.2						
	e L	Z	02:37:20.9			21.2	35662		6.8
FUR	e P	Z	02:01:58.1	88.7	271.4	1.6	464	6.5	
	e SKSac	R	02:12:24.6						
MOX	e P	Z	02:01:58.8	88.8	271.6	1.5	196	6.0	
	e SKSac	R	02:12:26.1						
MANZ	e P	Z	02:02:00.8	89.2	272.0	1.5	217	6.1	
	e SKSac	R	02:12:28.5						
ROTZ	e P	Z	02:02:01.4	89.2	272.1	1.7	308	6.2	
	e SKSac	R	02:12:29.3						
WERD	e P	Z	02:02:01.1	89.3	272.2	1.2	188	6.1	
GUNZ	e P	Z	02:02:01.3	89.3	272.2	1.5	222	6.1	
WERN	e P	Z	02:02:01.6	89.3	272.2	1.3	223	6.1	
TANN	e P	Z	02:02:01.8	89.4	272.3	1.2	233	6.2	
	e SKSac	R	02:12:30.1						
CLL	e P	Z	02:02:03.0	89.7	272.7	1.4	204	6.1	
	e SKSac	R	02:12:30.1						
WET	e P	Z	02:02:03.4	89.7	272.6	1.3	342	6.3	
	e SKSac	R	02:12:32.4						
RJOB	e P	Z	02:02:03.0	89.7	272.6	1.0	111	5.9	
	e SKSac	R	02:12:30.1						
RGN	e P	Z	02:02:03.6	89.7	273.0	1.3	730	6.7	
	e SKSac	R	02:12:31.7						
FBE	e P	Z	02:02:04.3	89.9	273.0	1.2	193	6.1	
RUE	e P	Z	02:02:05.0	90.1	273.3	1.4	328	6.3	
	e SKSac	R	02:12:31.7						
GEC2	e P	Z	02:02:05.7	90.2	273.3	1.4	143	5.9	
	e SKSac	R	02:12:33.2						
BRG	e P	Z	02:02:06.1	90.3	273.4	1.5	199	6.0	
	e SKSac	R	02:12:34.0						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/10 05:28:54.2 41.154N 142.693E 33.0N 4.8 SZGRF  
 Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	05:40:46.9	77.7	36.4	0.9	9	4.9		
CLZ	e P	Z	05:40:50.6	78.2	34.7	0.6	9	5.0		

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ROTZ	e P	Z	05:40:56.7	79.2	35.7	1.0	7	4.5
WET	e P	Z	05:40:58.0	79.5	36.0	0.6	5	4.6
GRA1	e P	Z	05:40:58.9	79.7	35.0	0.9	14	4.9
RJOB	e P	Z	05:41:04.5	80.7	35.8	0.9	9	4.8
BFO	e P	Z	05:41:10.3	81.9	32.9	1.1	10	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/10	10:04:13.3	14.600S	174.500W	10.0				NEIC
Samoa Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 10:23:51.0	144.6	9.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/10	18:37:19.2	16.819S	173.158W	67.0				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z 18:56:48.0	143.9	11.3					
NRDL	e PKPbc	Z 18:56:49.1	144.2	5.4					
IBBN	e PKPbc	Z 18:56:50.3	144.5	1.5					
CLZ	e PKPbc	Z 18:56:51.6	144.9	5.9					
CLL	e PKPbc	Z 18:56:52.0	145.2	10.4					
BUG	e PKPbc	Z 18:56:52.9	145.4	0.7					
BRG	e PKPbc	Z 18:56:52.9	145.5	12.1					
FBE	e PKPbc	Z 18:56:53.5	145.5	11.1					
UBBA	e PKPbc	Z 18:56:53.6	145.9	5.4					
MOX	e PKPbc	Z 18:56:54.2	146.0	8.2					
WERD	e PKPbc	Z 18:56:55.2	146.1	9.4					
	e pPKPbc	Z 18:57:14.1							
TANN	e PKPbc	Z 18:56:55.2	146.1	9.7					
GUNZ	e PKPbc	Z 18:56:55.3	146.2	9.5					
WERN	e PKPbc	Z 18:56:55.8	146.2	9.6					
MANZ	e PKPbc	Z 18:56:56.6	146.6	9.2					
	e pPKPbc	Z 18:57:15.5							
ROTZ	e PKPbc	Z 18:56:57.3	146.8	9.4					
	e pPKPbc	Z 18:57:16.2							
GRA1	e PKPbc	Z 18:56:57.8	146.9	7.7					
WLF	e PKPbc	Z 18:56:58.7	147.1	358.8					
WET	e PKPbc	Z 18:56:58.6	147.3	10.7					
GEC2	e PKPbc	Z 18:56:58.9	147.5	12.3					
	e pPKPbc	Z 18:57:18.6							
STU	e PKPbc	Z 18:57:00.8	148.0	4.2					
FUR	e PKPbc	Z 18:57:01.3	148.4	8.1					
	e pPKPbc	Z 18:57:20.7							

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BFO e PKPbc Z 18:57:01.5 148.5 2.7  
RJOB e PKPbc Z 18:57:01.7 148.7 11.0

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/11 01:55:56.4 4.900N 127.600E 10.0 4.8  
Talaud Islands, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
BRG e Pdiff Z 02:09:46.7 100.7 68.3  
FBE e Pdiff Z 02:09:48.2 101.0 67.8  
CLL e Pdiff Z 02:09:49.0 101.1 67.4  
GEC2 e Pdiff Z 02:09:50.1 101.6 68.4  
WET e Pdiff Z 02:09:53.3 102.0 67.7  
ROTZ e Pdiff Z 02:09:52.9 102.2 67.0  
MOX e Pdiff Z 02:09:53.3 102.2 66.4  
GRA1 e Pdiff Z 02:09:56.2 102.8 66.2  
e L Z 03:02:20.9 19.7 254 4.8

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/11 03:12:10.9 16.517N 94.995W 34.3 5.3  
Oaxaca, Mexico

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GRA1 e P Z 03:24:55.3 87.5 292.9 1.5 22 5.3  
e pP Z 03:25:05.3

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/11 16:36:9.7 5.700S 105.500E 10.0 5.3  
Sunda Strait, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GEC2 e P Z 16:49:35.1 95.5 92.4 1.4 9 5.0  
WET e P Z 16:49:37.9 96.0 91.8 1.4 10 5.2  
WERN e P Z 16:49:39.9 96.4 91.3 3.0 92 5.8  
MANZ e P Z 16:49:41.1 96.5 91.1 1.5 10 5.2  
MOX e P Z 16:49:41.0 96.9 90.6 1.6 8 5.1  
GRA1 e P Z 16:49:43.2 97.1 90.4 0.7 6 5.3

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/11 20:20:45.0 31.860S 178.410W 33.0G  
Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	20:40:31.2	157.1	19.3					
RUE	e PKPab	Z	20:40:33.2	157.6	28.0					
NRDL	e PKPab	Z	20:40:37.0	158.5	20.0					
CLL	e PKPab	Z	20:40:38.6	158.8	27.7					
BRG	e PKPab	Z	20:40:39.1	158.9	30.3					
CLZ	e PKPab	Z	20:40:39.8	159.0	21.2					
FBE	e PKPab	Z	20:40:40.0	159.1	29.0					
IBBN	e PKPab	Z	20:40:40.1	159.1	14.8					
TANN	e PKPab	Z	20:40:43.1	159.8	27.6					
WERD	e PKPab	Z	20:40:43.0	159.8	27.2					
MOX	e PKPab	Z	20:40:43.1	159.8	25.4					
GUNZ	e PKPab	Z	20:40:43.6	159.9	27.4					
WERN	e PKPab	Z	20:40:43.9	159.9	27.6					
BUG	e PKPab	Z	20:40:44.5	160.0	14.2					
UBBA	e PKPab	Z	20:40:43.4	160.0	21.4					
MANZ	e PKPab	Z	20:40:45.2	160.3	27.3					
ROTZ	e PKPab	Z	20:40:46.2	160.4	27.8					
GEC2	e PKPab	Z	20:40:47.0	160.7	32.7					
WET	e PKPab	Z	20:40:47.4	160.8	30.3					
GRA1	e PKPab	Z	20:40:47.6	160.8	25.6					
WLF	e PKPab	Z	20:40:52.5	161.9	12.5					
RJOB	e PKPab	Z	20:40:52.9	162.0	32.3					
FUR	e PKPab	Z	20:40:53.7	162.1	27.7					
STU	e PKPab	Z	20:40:53.3	162.1	21.5					
BFO	e PKPab	Z	20:40:55.9	162.8	19.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	11:10:34.6	3.450S	101.560E	33.0N	7.0	8.2		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	11:23:36.7	91.2	94.0	1.4	1647	7.2		
RUE	e P	Z	11:23:37.2	91.4	93.9	1.4	3176	7.4		
WET	e P	Z	11:23:39.3	91.7	93.3	1.5	1908	7.2		
RGN	e P	Z	11:23:39.4	91.8	93.4	1.3	1636	7.2		
CLL	e P	Z	11:23:39.2	91.8	93.3	1.7	1371	7.0		
TANN	e P	Z	11:23:41.1	92.1	92.9	1.5	1053	7.0		
MOX	e P	Z	11:23:43.4	92.6	92.2	1.3	910	7.0		
FUR	e P	Z	11:23:43.5	92.8	92.1	1.7	1694	7.2		
GRA1	e P	Z	11:23:44.6	92.8	92.0	1.5	1719	7.2		
GRFO	e P	Z	11:23:44.8	92.8	92.0	1.6	1705	7.2		
	e L	E	12:16:16.1			20.7	991007		8.2	
BSEG	e P	Z	11:23:47.4	93.5	91.0	1.7	974	7.0		
STU	e P	Z	11:23:50.1	94.2	90.5	1.6	1053	6.9		
BFO	e P	Z	11:23:52.7	94.7	89.9	1.7	656	6.8		

HLG	e P	Z	11:23:54.0	94.9	89.0	1.2	715	7.0
IBBN	e P	Z	11:23:54.3	95.1	89.1	1.3	523	6.8
BUG	e P	Z	11:23:55.8	95.4	88.8	1.2	385	6.7
WLF	e P	Z	11:23:59.7	96.1	88.1	1.2	524	6.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	13:02:11.4	2.710S	101.490E	59.7	5.6			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:15:06.9	90.6	93.6	0.8	46	5.8		
	e pP	Z	13:15:23.2							
GEC2	e P	Z	13:15:07.1	90.6	93.4	0.9	45	5.8		
	e pP	Z	13:15:23.4							
RUE	e P	Z	13:15:07.8	90.8	93.5	1.0	87	6.0		
FBE	e P	Z	13:15:08.7	90.9	93.2	0.9	42	5.8		
RJOB	e P	Z	13:15:08.9	91.1	92.8	0.8	23	5.6		
WET	e P	Z	13:15:09.6	91.1	92.8	0.9	42	5.8		
CLL	e P	Z	13:15:09.3	91.2	92.9	0.9	21	5.5		
TANN	e P	Z	13:15:11.0	91.5	92.5	1.0	15	5.3		
	e pP	Z	13:15:28.3							
WERN	e P	Z	13:15:11.3	91.5	92.4	0.9	19	5.4		
GUNZ	e P	Z	13:15:11.5	91.6	92.4	0.9	22	5.5		
WERD	e P	Z	13:15:11.4	91.6	92.4	0.9	22	5.5		
	e pP	Z	13:15:28.7							
ROTZ	e P	Z	13:15:12.2	91.6	92.3	1.0	30	5.6		
MANZ	e P	Z	13:15:12.5	91.7	92.2	1.0	40	5.7		
MOX	e P	Z	13:15:12.9	92.0	91.8	0.9	18	5.4		
	e pP	Z	13:15:30.5							
GRA1	e P	Z	13:15:14.9	92.2	91.5	1.0	43	5.7		
	e PP	Z	13:18:55.5							
GRFO	e P	Z	13:15:14.9	92.2	91.5	1.1	41	5.7		
CLZ	e P	Z	13:15:17.2	92.8	90.8	0.9	22	5.6		
BSEG	e P	Z	13:15:17.5	92.9	90.6	1.2	30	5.6		
NRDL	e P	Z	13:15:17.6	93.0	90.6	0.9	27	5.7		
UBBA	e P	Z	13:15:17.8	93.0	90.6	0.9	9	5.2		
BFO	e P	Z	13:15:22.6	94.1	89.4	0.9	13	5.3		
WLF	e P	Z	13:15:29.8	95.5	87.7	1.1	18	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	13:17:40.0	1.780N	99.520E	33.0N	4.9			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:30:16.9	85.8	92.3	1.0	11	4.9		

GEC2	e P	Z	13:30:16.9	85.9	92.0	1.0	11	5.0
FBE	e P	Z	13:30:18.6	86.2	91.9	0.9	10	4.9
CLL	e P	Z	13:30:19.3	86.4	91.6	1.4	14	4.9
WET	e P	Z	13:30:19.4	86.5	91.4	1.1	13	5.0
WERN	e P	Z	13:30:21.5	86.8	91.1	0.8	5	4.7
GUNZ	e P	Z	13:30:21.6	86.8	91.0	1.1	7	4.7
WERD	e P	Z	13:30:21.5	86.9	91.0	1.1	9	4.8
ROTZ	e P	Z	13:30:22.2	86.9	90.9	1.1	8	4.8
MANZ	e P	Z	13:30:22.5	87.0	90.8	1.1	13	5.0
GRA1	e P	Z	13:30:25.0	87.5	90.1	0.8	14	5.4
NRDL	e P	Z	13:30:28.1	88.2	89.4	1.0	10	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	14:40:10.2	3.200S	100.710E	53.9	6.1			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:53:06.0	90.4	94.4	1.5	230	6.4		
BRG	e P	Z	14:53:05.9	90.4	94.5	1.3	147	6.3		
RUE	e P	Z	14:53:07.1	90.7	94.4	1.3	351	6.6		
FBE	e P	Z	14:53:07.6	90.8	94.1	1.3	154	6.3		
RJOB	e P	Z	14:53:07.6	91.0	93.7	1.2	66	5.9		
WET	e P	Z	14:53:08.5	91.0	93.7	1.3	159	6.2		
CLL	e P	Z	14:53:08.2	91.1	93.8	1.2	84	5.9		
TANN	e P	Z	14:53:10.0	91.4	93.4	1.4	72	5.8		
	e pP	Z	14:53:25.1							
WERN	e P	Z	14:53:10.4	91.4	93.3	1.2	61	5.8		
GUNZ	e P	Z	14:53:10.4	91.4	93.3	1.2	88	6.0		
	e pP	Z	14:53:26.5							
WERD	e P	Z	14:53:10.4	91.5	93.3	1.2	80	5.9		
ROTZ	e P	Z	14:53:11.1	91.5	93.2	1.2	92	6.0		
MANZ	e P	Z	14:53:11.4	91.6	93.1	1.2	151	6.2		
	e pP	Z	14:53:27.2							
MOX	e P	Z	14:53:12.5	91.9	92.7	1.2	80	5.9		
FUR	e P	Z	14:53:12.6	92.0	92.6	1.3	126	6.2		
GRA1	e P	Z	14:53:13.8	92.1	92.5	1.3	121	6.2		
	e PP	Z	14:56:53.9							
GRFO	e P	Z	14:53:13.9	92.1	92.5	1.3	116	6.1		
CLZ	e P	Z	14:53:16.1	92.7	91.7	1.3	74	6.0		
	e pP	Z	14:53:31.8							
BSEG	e P	Z	14:53:16.7	92.8	91.6	1.1	66	6.0		
NRDL	e P	Z	14:53:17.1	92.9	91.5	1.2	63	5.9		
UBBA	e P	Z	14:53:16.9	92.9	91.5	1.4	41	5.7		
	e pP	Z	14:53:32.2							
STU	e P	Z	14:53:19.2	93.4	91.0	2.1	150	6.2		
BFO	e P	Z	14:53:22.0	94.0	90.4	1.2	35	5.8		
IBBN	e P	Z	14:53:23.3	94.3	89.6	1.4	95	6.2		

BUG	e P	Z	14:53:24.6	94.6	89.3	1.3	46	6.0
WLF	e P	Z	14:53:28.5	95.4	88.6	1.3	52	6.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	16:37: 8.7	3.490S	100.290E	52.7	5.9			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:50:04.3	90.4	94.9	1.6	221	6.1		
	e pP	Z	16:50:20.0							
	e S	T	17:00:56.2							
BRG	e P	Z	16:50:04.2	90.4	95.0	1.2	103	5.9		
	e S	T	17:00:55.0							
RUE	e P	Z	16:50:05.3	90.6	94.9	1.2	270	6.4		
	e S	T	17:00:57.3							
FBE	e P	Z	16:50:05.9	90.8	94.6	1.2	113	6.1		
RJOB	e P	Z	16:50:05.8	90.9	94.2	1.0	51	5.8		
WET	e P	Z	16:50:06.8	90.9	94.2	1.3	128	6.1		
	e S	T	17:01:01.7							
CLL	e P	Z	16:50:06.5	91.0	94.3	1.1	64	5.9		
	e S	T	17:00:59.2							
TANN	e P	Z	16:50:08.3	91.3	93.9	1.3	58	5.7		
	e S	T	17:01:04.7							
WERN	e P	Z	16:50:08.7	91.4	93.8	1.1	47	5.7		
GUNZ	e P	Z	16:50:08.7	91.4	93.8	1.2	74	5.9		
WERD	e P	Z	16:50:08.7	91.4	93.8	1.1	58	5.8		
ROTZ	e P	Z	16:50:09.4	91.4	93.7	1.2	73	5.9		
	e pP	Z	16:50:24.0							
	e S	T	17:01:07.5							
MANZ	e P	Z	16:50:09.7	91.5	93.6	1.3	124	6.1		
	e S	T	17:01:07.2							
MOX	e P	Z	16:50:10.8	91.9	93.2	1.3	72	5.8		
	e pP	Z	16:50:26.2							
	e S	T	17:01:09.0							
FUR	e P	Z	16:50:10.8	91.9	93.1	0.8	54	5.9		
	e S	T	17:01:08.8							
GRA1	e P	Z	16:50:12.1	92.1	93.0	1.3	94	6.0		
	e PP	Z	16:53:51.9							
	e S	T	17:01:09.8							
CLZ	e P	Z	16:50:14.5	92.7	92.2	1.0	45	5.9		
	e S	T	17:01:17.1							
BSEG	e P	Z	16:50:14.7	92.8	92.1	1.0	61	6.0		
	e pP	Z	16:50:30.2							
NRDL	e P	Z	16:50:15.4	92.9	92.0	1.0	48	5.9		
	e S	T	17:01:17.2							
UBBA	e P	Z	16:50:15.2	92.9	92.0	1.0	25	5.6		
	e pP	Z	16:50:30.5							



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	e S	T	17:01:17.1						
STU	e P	Z	16:50:17.4	93.3	91.5	0.9	36	5.8	
	e S	T	17:01:21.2						
BFO	e P	Z	16:50:19.7	93.9	90.9	1.0	22	5.5	
IBBN	e P	Z	16:50:22.4	94.3	90.1	0.8	41	5.8	
	e S	T	17:01:30.6						
BUG	e P	Z	16:50:22.9	94.6	89.8	1.1	34	5.7	
	e S	T	17:01:30.3						
WLF	e P	Z	16:50:27.1	95.3	89.1	1.2	37	5.7	
	e S	T	17:01:38.4						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	17:04:33.4	7.600S	126.100E	307.0				NEIC

Banda Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e SKPdf	Z 17:25:22.8	109.8	77.3					
CLL	e SKPdf	Z 17:25:23.7	110.3	76.4					
TANN	e SKPdf	Z 17:25:24.8	110.8	76.3					
WET	e SKPdf	Z 17:25:24.9	110.8	77.1					
GUNZ	e SKPdf	Z 17:25:25.4	110.9	76.2					
MANZ	e SKPdf	Z 17:25:25.6	111.1	76.1					
RJOB	e SKPdf	Z 17:25:25.4	111.2	77.5					
MOX	e SKPdf	Z 17:25:25.8	111.3	75.5					
CLZ	e SKPdf	Z 17:25:26.8	111.7	74.0					
GRA1	e SKPdf	Z 17:25:26.4	111.8	75.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/12	22:02:35.0	4.940S	101.120E	33.0N	5.1			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:15:40.5	92.0	95.2	1.5	15	5.1		
BRG	e P	Z 22:15:41.2	92.1	95.3	1.2	8	4.9		
WET	e P	Z 22:15:43.5	92.6	94.6	1.3	8	5.0		
CLL	e P	Z 22:15:43.5	92.7	94.6	0.9	5	5.0		
GUNZ	e P	Z 22:15:45.2	93.0	94.1	2.0	28	5.3		
WERD	e P	Z 22:15:45.3	93.1	94.1	1.9	16	5.1		
ROTZ	e P	Z 22:15:45.7	93.1	94.0	1.2	5	4.9		
MANZ	e P	Z 22:15:46.4	93.1	93.9	1.5	16	5.2		
GRA1	e P	Z 22:15:48.4	93.7	93.3	1.6	27	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/09/12 22:17:15.7 4.750S 101.250E 50.2 5.2 SZGRF  
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:30:19.4	92.0	95.0					
	e pP	Z 22:30:34.2			1.7	32			
BRG	e P	Z 22:30:19.4	92.0	95.1					
	e pP	Z 22:30:33.8			1.1	16			
RUE	e P	Z 22:30:20.0	92.2	94.9					
FBE	e P	Z 22:30:21.2	92.4	94.6					
RJOB	e P	Z 22:30:21.4	92.5	94.3					
WET	e P	Z 22:30:22.0	92.5	94.3					
	e pP	Z 22:30:36.8			1.1	13			
CLL	e P	Z 22:30:21.5	92.6	94.3					
	e pP	Z 22:30:36.1			1.5	18			
WERN	e P	Z 22:30:23.7	92.9	93.9	1.0	7	5.0		
GUNZ	e P	Z 22:30:23.9	93.0	93.9					
	e pP	Z 22:30:38.6			1.2	13			
WERD	e P	Z 22:30:23.8	93.0	93.8	1.0	5	4.9		
ROTZ	e P	Z 22:30:24.6	93.0	93.8	1.1	10	5.2		
MANZ	e P	Z 22:30:24.6	93.1	93.7	1.2	16	5.3		
NEUB	e P	Z 22:30:25.7	93.4	93.4	0.9	16	5.4		
MOX	e P	Z 22:30:25.9	93.4	93.3	1.2	8	5.0		
	e pP	Z 22:30:40.4							
GRA1	e P	Z 22:30:26.8	93.6	93.1	1.3	21	5.3		
	e pP	Z 22:30:42.0							
CLZ	e P	Z 22:30:30.5	94.3	92.3					
STU	e P	Z 22:30:33.0	94.9	91.6					
BFO	e P	Z 22:30:35.0	95.5	91.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/12 23:08:21.5 45.662N 152.794E 33.0N 4.5 SZGRF  
East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:20:22.4	79.0	26.3	0.9	4	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/12 23:49: 1.6 2.110S 101.990E 33.0N 7.0 8.0 SZGRF  
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:02:00.0	90.4	92.8	2.1	3132	7.2		
	e PP	Z 00:05:36.0							
	e S	T 00:12:52.4							

GEC2	e P	Z	00:02:00.1	90.5	92.7	1.7	2617	7.2
	e PP	Z	00:05:36.4					
	e S	T	00:12:52.2					
CLL	e P	Z	00:02:02.4	91.0	92.1	2.2	2689	7.2
	e S	T	00:12:56.7					
WET	e P	Z	00:02:02.7	91.0	92.1	2.1	2482	7.2
	e PP	Z	00:05:40.9					
	e S	T	00:12:57.8					
RJOB	e P	Z	00:02:01.8	91.0	92.0	1.0	436	6.7
	e PP	Z	00:05:41.8					
	e S	T	00:12:54.2					
TANN	e P	Z	00:02:04.2	91.3	91.7	1.9	1235	6.9
	e PP	Z	00:05:43.5					
	e S	T	00:13:00.6					
ROTZ	e P	Z	00:02:05.4	91.5	91.5	2.3	3040	7.2
	e S	T	00:13:02.5					
MANZ	e P	Z	00:02:05.6	91.5	91.4	2.2	3897	7.3
	e S	T	00:13:03.0					
MOX	e P	Z	00:02:06.7	91.9	91.0	2.0	1590	7.0
	e PP	Z	00:05:48.5					
	e S	T	00:13:05.5					
FUR	e P	Z	00:02:06.8	92.0	90.9	1.8	1337	7.0
	e S	T	00:13:05.5					
GRA1	e P	Z	00:02:08.1	92.1	90.8	2.2	3680	7.3
	e PP	Z	00:05:49.7					
	e S	T	00:13:07.7					
	e PKPPKPdf	Z	00:27:43.5					
	e L	Z	00:52:10.5			20.9	533787	8.0
CLZ	e P	Z	00:02:10.5	92.7	90.0	2.2	2199	7.2
	e S	T	00:13:11.6					
BSEG	e P	Z	00:02:10.7	92.7	89.9	1.2	452	6.8
	e S	T	00:13:12.8					
NRDL	e P	Z	00:02:11.5	92.8	89.8	2.4	2577	7.2
	e S	T	00:13:13.5					
UBBA	e P	Z	00:02:11.3	92.9	89.8	1.9	1038	6.9
	e PP	Z	00:05:55.0					
	e S	T	00:13:13.4					
STU	e P	Z	00:02:13.5	93.4	89.3	1.6	831	6.9
	e PP	Z	00:05:59.9					
	e S	T	00:13:16.7					
BFO	e P	Z	00:02:15.8	94.0	88.7	1.3	222	6.3
	e PP	Z	00:06:03.4					
	e S	T	00:13:22.4					
IBBN	e P	Z	00:02:17.7	94.3	87.9	1.3	515	6.7
	e S	T	00:13:26.1					
BUG	e P	Z	00:02:19.1	94.6	87.6	1.4	314	6.6
	e PP	Z	00:06:10.6					
	e S	T	00:13:28.5					
WLF	e P	Z	00:02:22.9	95.4	86.9	2.4	1522	7.0

e PP Z 00:06:15.9  
e S T 00:13:33.1

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/13 01:26:36.3 1.692S 100.286E 33.0G 5.7  
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:39:28.1	89.0	93.9	0.9	58	5.8		
GEC2	e P	Z 01:39:27.6	89.0	93.7	1.1	58	5.7		
RUE	e P	Z 01:39:29.4	89.2	93.8	1.0	171	6.2		
FBE	e P	Z 01:39:30.1	89.4	93.4	1.0	66	5.8		
WET	e P	Z 01:39:30.9	89.6	93.1	1.1	71	5.8		
CLL	e P	Z 01:39:31.0	89.6	93.2	1.0	40	5.6		
TANN	e P	Z 01:39:32.0	89.9	92.8	1.0	22	5.3		
WERN	e P	Z 01:39:32.9	90.0	92.7	1.1	34	5.5		
GUNZ	e P	Z 01:39:33.0	90.0	92.7					
ROTZ	e P	Z 01:39:33.8	90.1	92.6	1.0	45	5.7		
MANZ	e P	Z 01:39:33.3	90.1	92.5	1.1	80	5.9		
MOX	e P	Z 01:39:35.4	90.5	92.1	1.7	92	5.7		
FUR	e P	Z 01:39:34.3	90.6	91.9	1.1	57	5.8		
GRA1	e P	Z 01:39:36.0	90.7	91.8	1.1	61	5.9		
CLZ	e P	Z 01:39:39.0	91.3	91.1	1.6	90	5.8		
BSEG	e P	Z 01:39:41.2	91.3	91.0	1.1	58	5.8		
NRDL	e P	Z 01:39:41.0	91.5	90.9					
UBBA	e P	Z 01:39:41.1	91.5	90.8	2.1	100	5.8		
STU	e P	Z 01:39:43.0	92.0	90.3	1.5	69	5.8		
BFO	e P	Z 01:39:44.5	92.6	89.7	1.1	28	5.6		
IBBN	e P	Z 01:39:48.0	92.9	89.0	0.9	38	5.8		
WLF	e P	Z 01:39:52.3	94.0	87.9	1.4	47	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/13 01:38:14.1 1.692S 98.325E 33.0N 5.2  
Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 01:50:59.8	87.7	95.2	1.6	24	5.3		
BRG	e P	Z 01:51:00.0	87.8	95.4	1.0	9	5.1		
WET	e P	Z 01:51:02.5	88.3	94.6	1.0	9	5.1		
CLL	e P	Z 01:51:02.3	88.4	94.7	0.9	8	5.0		
TANN	e P	Z 01:51:04.2	88.7	94.3	1.5	12	5.1		
ROTZ	e P	Z 01:51:05.0	88.8	94.1	1.1	9	5.1		
MANZ	e P	Z 01:51:05.5	88.9	94.0	1.0	16	5.4		
MOX	e P	Z 01:51:06.4	89.2	93.6	1.3	13	5.2		
GRA1	e P	Z 01:51:07.9	89.4	93.3	1.0	14	5.5		

BFO	e P	Z	01:51:15.8	91.3	91.1	1.1	7	5.2
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	01:49:20.8	2.378S	95.139E	27.9	4.7			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:02:08.2	87.9	96.2	1.1	7	4.7		
	e pP	Z 02:02:16.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	01:55:51.5	3.979S	100.531E	33.0N	5.0			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:09:00.0	92.6	93.1	1.1	7	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	02:30:0.2	3.300S	99.520E	33.0N	6.4			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 02:42:54.3	89.7	95.3	1.9	559	6.5		
BRG	e P	Z 02:42:54.3	89.8	95.5	2.2	650	6.5		
WET	e P	Z 02:42:56.9	90.3	94.7	2.2	586	6.4		
CLL	e P	Z 02:42:56.8	90.4	94.8	2.2	495	6.3		
TANN	e P	Z 02:42:58.5	90.7	94.4	2.2	385	6.4		
ROTZ	e P	Z 02:42:59.6	90.8	94.2	2.3	621	6.5		
MANZ	e P	Z 02:43:00.0	90.9	94.1	1.5	314	6.4		
MOX	e P	Z 02:43:01.1	91.2	93.7	2.2	493	6.5		
FUR	e P	Z 02:43:01.1	91.3	93.5	1.4	152	6.2		
GRA1	e P	Z 02:43:02.5	91.4	93.4	1.5	275	6.4		
CLZ	e P	Z 02:43:05.1	92.1	92.7	2.1	474	6.5		
BSEG	e P	Z 02:43:05.6	92.2	92.6	2.2	466	6.4		
UBBA	e P	Z 02:43:05.8	92.3	92.5	1.9	224	6.2		
NRDL	e P	Z 02:43:06.1	92.3	92.5	1.8	405	6.4		
STU	e P	Z 02:43:07.9	92.7	91.9	2.1	413	6.5		
BFO	e P	Z 02:43:10.3	93.3	91.3	2.2	278	6.3		
IBBN	e P	Z 02:43:12.5	93.7	90.6	2.3	461	6.4		
BUG	e P	Z 02:43:13.8	94.0	90.3	2.2	287	6.2		
WLF	e P	Z 02:43:17.5	94.7	89.6	2.2	309	6.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	02:51:23.9	4.810S	98.940E	33.0N	5.5			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:04:26.3	90.5	96.7	1.6	66	5.6		
BRG	e P	Z	03:04:26.6	90.6	96.9	1.5	40	5.5		
WET	e P	Z	03:04:29.1	91.1	96.1	1.4	32	5.5		
CLL	e P	Z	03:04:29.1	91.2	96.2	1.3	23	5.4		
TANN	e P	Z	03:04:30.7	91.5	95.8	1.4	20	5.2		
ROTZ	e P	Z	03:04:31.9	91.6	95.6	2.3	98	5.7		
MANZ	e P	Z	03:04:32.2	91.7	95.5	1.3	36	5.5		
MOX	e P	Z	03:04:33.2	92.0	95.1	1.4	27	5.4		
FUR	e P	Z	03:04:33.6	92.0	94.9	1.1	22	5.4		
GRA1	e P	Z	03:04:35.0	92.2	94.9	1.2	31	5.5		
CLZ	e P	Z	03:04:37.6	92.9	94.1	1.3	34	5.6		
UBBA	e P	Z	03:04:38.2	93.1	93.9	1.6	25	5.4		
NRDL	e P	Z	03:04:38.4	93.1	93.9	1.6	47	5.7		
STU	e P	Z	03:04:40.2	93.4	93.4	1.0	19	5.5		
BFO	e P	Z	03:04:41.5	94.0	92.7	1.3	14	5.1		
WLF	e P	Z	03:04:49.6	95.5	91.0	1.3	19	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	03:35:30.0	2.170S	99.790E	33.0N	6.3	7.1		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:48:22.0	89.1	94.4	1.6	522	6.5		
	e S	T	03:59:06.3							
BRG	e P	Z	03:48:22.0	89.1	94.6	1.5	356	6.4		
	e PP	Z	03:51:55.8							
	e S	T	03:59:07.8							
WET	e P	Z	03:48:24.6	89.6	93.8	1.5	311	6.4		
	e PP	Z	03:51:58.7							
	e S	T	03:59:13.2							
CLL	e P	Z	03:48:24.4	89.7	93.9	1.4	227	6.3		
	e S	T	03:59:12.4							
TANN	e P	Z	03:48:26.2	90.0	93.4	1.5	207	6.2		
	e S	T	03:59:17.0							
ROTZ	e P	Z	03:48:27.3	90.1	93.2	1.4	217	6.3		
	e PP	Z	03:52:03.9							
	e S	T	03:59:18.4							
MANZ	e P	Z	03:48:27.6	90.2	93.2	1.4	361	6.5		
	e PP	Z	03:52:03.7							
	e S	T	03:59:19.1							
MOX	e P	Z	03:48:28.8	90.5	92.8	1.6	340	6.4		

	e S	T	03:59:21.4							
FUR	e P	Z	03:48:28.8	90.6	92.6	1.4	246	6.3		
	e PP	Z	03:52:08.0							
	e S	T	03:59:20.2							
GRA1	e P	Z	03:48:30.1	90.7	92.5	1.4	361	6.5		
	e PP	Z	03:52:09.1							
	e S	T	03:59:23.7							
	e L	Z	04:37:13.1			20.8	75670		7.1	
CLZ	e P	Z	03:48:32.6	91.3	91.8	1.4	282	6.4		
	e S	T	03:59:26.9							
BSEG	e P	Z	03:48:33.1	91.4	91.7	1.6	242	6.4		
	e PP	Z	03:52:16.3							
	e S	T	03:59:28.2							
NRDL	e P	Z	03:48:33.7	91.5	91.6	1.5	304	6.5		
	e PP	Z	03:52:15.8							
	e S	T	03:59:28.4							
UBBA	e P	Z	03:48:33.4	91.5	91.5	1.9	334	6.5		
	e S	T	03:59:29.8							
STU	e P	Z	03:48:35.6	92.0	91.0	1.4	231	6.4		
	e PP	Z	03:52:18.5							
	e S	T	03:59:34.2							
BFO	e P	Z	03:48:37.9	92.6	90.4	1.4	121	6.0		
	e S	T	03:59:38.9							
IBBN	e P	Z	03:48:40.1	93.0	89.7	1.7	225	6.2		
	e S	T	03:59:41.7							
BUG	e P	Z	03:48:41.4	93.3	89.4	1.5	122	6.0		
	e S	T	03:59:45.2							
WLF	e P	Z	03:48:45.1	94.0	88.6	1.5	108	6.1		
	e S	T	03:59:52.6							

Date 2007/09/13 Origin Time 04:06:12.3 Lat 2.262S Long 99.654E Depth 33.0N mb 5.2 Ms ML Source SZGRF  
 Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:19:04.1	89.0	94.5	1.5	25	5.2		
BRG	e P	Z 04:19:04.1	89.1	94.8	1.8	24	5.1		
WET	e P	Z 04:19:07.2	89.6	93.9	1.4	17	5.1		
CLL	e P	Z 04:19:06.6	89.7	94.0	1.5	17	5.1		
ROTZ	e P	Z 04:19:09.3	90.1	93.4	1.4	14	5.0		
MANZ	e P	Z 04:19:09.7	90.2	93.3	1.9	45	5.4		
MOX	e P	Z 04:19:11.3	90.5	93.0	1.6	24	5.2		
GRA1	e P	Z 04:19:12.1	90.7	92.7	1.1	16	5.3		
CLZ	e P	Z 04:19:14.7	91.3	92.0	1.7	26	5.3		
NRDL	e P	Z 04:19:15.4	91.5	91.7	1.8	39	5.4		
STU	e P	Z 04:19:18.2	92.0	91.1	1.0	17	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	05:23:24.0	1.638S	99.529E	36.2	5.5			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:36:21.3	90.2	92.4	1.5	42	5.5		
	e pP	Z 05:36:31.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	06:28:51.4	2.000S	99.400E	10.0	4.9			NEIC
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 06:41:45.6	88.7	94.6	1.5	18	5.1		
BRG	e P	Z 06:41:45.8	88.7	94.8	0.9	8	5.0		
WET	e P	Z 06:41:48.6	89.2	93.9	1.0	7	4.9		
TANN	e P	Z 06:41:50.0	89.6	93.6	1.0	6	4.7		
ROTZ	e P	Z 06:41:50.8	89.7	93.4	0.9	4	4.7		
MANZ	e P	Z 06:41:51.3	89.8	93.4	1.1	13	5.1		
MOX	e P	Z 06:41:52.6	90.1	93.0	1.4	10	4.8		
GRA1	e P	Z 06:41:55.7	90.3	92.7	0.7	7			
CLZ	e P	Z 06:41:56.6	91.0	92.0	1.9	30	5.3		
BFO	e P	Z 06:42:01.0	92.2	90.5	0.8	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	06:37:36.1	14.040N	60.490W	72.0	5.3			SZGRF
Windward Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e pP	Z 06:48:08.9	64.3	261.3					
BUG	e pP	Z 06:48:14.8	65.3	261.4					
BFO	e pP	Z 06:48:16.5	65.5	263.7					
IBBN	e pP	Z 06:48:17.7	65.7	261.4					
STU	e P	Z 06:48:02.2	66.1	264.1	0.6	27	5.6		
	e pP	Z 06:48:20.8							
UBBA	e pP	Z 06:48:25.6	66.9	263.9					
NRDL	e pP	Z 06:48:27.2	67.1	263.3					
CLZ	e P	Z 06:48:08.8	67.2	263.8	1.3	28	5.3		
	e pP	Z 06:48:27.5							
BSEG	e P	Z 06:48:10.9	67.4	262.8	1.2	28	5.4		
	e pP	Z 06:48:28.9							
GRA1	e pP	Z 06:48:29.8	67.5	265.3	1.1	20	5.2		
MANZ	e P	Z 06:48:14.5	68.1	265.9	1.4	33	5.4		



	e pP	Z	06:48:33.7							
ROTZ	e pP	Z	06:48:34.0	68.2	266.1					
TANN	e pP	Z	06:48:35.0	68.4	266.0					
WET	e P	Z	06:48:16.5	68.6	266.8	1.7		32	5.3	
	e pP	Z	06:48:35.9							
CLL	e pP	Z	06:48:37.7	68.8	266.1					
GEC2	e P	Z	06:48:19.8	69.1	267.6	1.0		13	5.1	
	e pP	Z	06:48:39.5							
BRG	e pP	Z	06:48:41.0	69.4	267.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	09:21:36.5	3.087S	99.513E	33.0G	5.2			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	09:34:30.5	89.6	95.2	1.6	35	5.3		
BRG	e P	Z	09:34:30.6	89.6	95.4	1.6	30	5.3		
WET	e P	Z	09:34:33.2	90.1	94.6	1.0	11	5.0		
CLL	e P	Z	09:34:33.4	90.2	94.7	1.2	13	5.1		
TANN	e P	Z	09:34:34.7	90.5	94.2	1.6	16	5.0		
ROTZ	e P	Z	09:34:36.0	90.6	94.0	1.1	11	5.1		
MANZ	e P	Z	09:34:36.1	90.7	94.0	1.3	21	5.3		
MOX	e P	Z	09:34:37.1	91.1	93.6	1.1	10	5.1		
GRA1	e P	Z	09:34:38.8	91.2	93.3	1.4	30	5.4		
CLZ	e P	Z	09:34:41.4	91.9	92.6	1.5	24	5.3		
BSEG	e P	Z	09:34:41.9	92.0	92.5	1.8	33	5.4		
BFO	e P	Z	09:34:46.6	93.1	91.2	1.1	7	5.0		
WLF	e P	Z	09:34:53.9	94.5	89.4	1.2	15	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	09:48:43.9	3.800N	126.400E	22.0	5.8	6.5		NEIC

Talau Islands, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	10:02:32.2	100.9	69.9	0.9	75	6.1		
CLL	e Pdiff	Z	10:02:33.7	101.3	69.0	1.1	40	5.8		
GEC2	e Pdiff	Z	10:02:35.9	101.7	70.1	1.2	36	5.6		
BSEG	e Pdiff	Z	10:02:36.3	101.8	66.3	1.0	53	5.8		
TANN	e Pdiff	Z	10:02:36.8	101.9	68.8	1.0	35	5.6		
WET	e Pdiff	Z	10:02:38.0	102.1	69.4	1.4	35	5.5		
MANZ	e Pdiff	Z	10:02:38.9	102.3	68.6	1.3	30	5.5		
ROTZ	e Pdiff	Z	10:02:39.1	102.3	68.7	1.1	46	5.7		
MOX	e Pdiff	Z	10:02:38.8	102.4	68.0	1.0	33	5.6		
NRDL	e Pdiff	Z	10:02:39.9	102.5	66.4	1.1	70	6.0		
CLZ	e Pdiff	Z	10:02:40.4	102.6	66.7	1.1	80	6.1		

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GRA1	e Pdiff	Z	10:02:41.7	102.9	67.9	1.7	62	5.8
	e PP	Z	10:07:02.0					
	e SKSac	R	10:13:19.6					
	e Sdiff	T	10:14:29.4					
	e L	Z	10:52:47.4			20.4	16145	6.5
UBBA	e Pdiff	Z	10:02:42.7	103.2	66.7	1.4	33	5.6
FUR	e Pdiff	Z	10:02:43.7	103.5	68.3	0.9	27	5.7
IBBN	e Pdiff	Z	10:02:45.9	103.9	64.4	1.1	73	6.1
STU	e Pdiff	Z	10:02:48.5	104.5	66.5	0.8	20	5.8
BUG	e Pdiff	Z	10:02:48.6	104.5	64.2	1.0	34	5.9
BFO	e Pdiff	Z	10:02:51.2	105.2	65.8	1.1	9	5.3
WLF	e Pdiff	Z	10:02:55.6	106.0	63.7	1.6	36	5.9

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/13 12:13: 4.4 2.652S 101.759E 33.3 5.2  
 Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	12:26:04.2	90.7	93.4	1.1	13	5.2		
GEC2	e P	Z	12:26:03.6	90.7	93.2	1.4	26	5.4		
RJOB	e P	Z	12:26:05.6	91.3	92.6	0.9	9	5.1		
WET	e P	Z	12:26:05.9	91.3	92.6	1.2	14	5.2		
CLL	e P	Z	12:26:06.2	91.3	92.6	1.6	21	5.2		
TANN	e P	Z	12:26:08.6	91.6	92.2	1.3	8	4.9		
MANZ	e P	Z	12:26:09.2	91.8	92.0	1.2	14	5.2		
MOX	e P	Z	12:26:10.8	92.1	91.6	1.5	18	5.2		
GRA1	e P	Z	12:26:11.8	92.4	91.3	1.0	12	5.2		
	e pP	Z	12:26:21.6							
CLZ	e P	Z	12:26:14.4	92.9	90.5	2.0	37	5.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/13 13:10: 6.8 5.200S 102.390E 48.5 5.4  
 Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	13:23:15.2	93.1	94.4	0.9	21	5.6		
BRG	e P	Z	13:23:15.1	93.1	94.5	0.8	24	5.7		
RJOB	e P	Z	13:23:16.7	93.6	93.8	0.9	12	5.2		
WET	e P	Z	13:23:17.7	93.6	93.8	0.9	23	5.5		
CLL	e P	Z	13:23:17.4	93.7	93.7	1.2	17	5.3		
TANN	e P	Z	13:23:19.2	94.0	93.4	1.2	10	5.0		
ROTZ	e P	Z	13:23:20.3	94.1	93.2	1.0	14	5.3		
MANZ	e P	Z	13:23:20.6	94.2	93.1	1.0	22	5.4		
MOX	e P	Z	13:23:21.7	94.5	92.7	1.0	13	5.2		
FUR	e P	Z	13:23:21.8	94.6	92.6	0.7	31	5.8		

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GRA1	e P	Z	13:23:23.1	94.7	92.5	1.1	22	5.5
	e pP	Z	13:23:37.3					
CLZ	e P	Z	13:23:25.4	95.3	91.6	0.9	11	5.3
BSEG	e P	Z	13:23:25.6	95.4	91.4	1.0	13	5.3
NRDL	e P	Z	13:23:26.4	95.5	91.4	0.9	10	5.3
UBBA	e P	Z	13:23:26.2	95.5	91.4	0.7	5	5.2
STU	e P	Z	13:23:28.5	96.0	91.0	0.6	12	5.6
BFO	e P	Z	13:23:30.7	96.6	90.4	0.7	9	5.5
IBBN	e P	Z	13:23:32.6	96.9	89.5	0.6	18	5.9
BUG	e P	Z	13:23:33.9	97.3	89.2	0.6	10	5.6
WLF	e P	Z	13:23:37.8	98.0	88.6	0.7	9	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	15:09:18.0	0.350S	98.530E	33.0N	5.1			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:21:59.6	86.9	94.4	0.9	13	5.0		
GEC2	e P	Z	15:22:00.0	86.9	94.1	1.0	19	5.2		
RJOB	e P	Z	15:22:01.7	87.4	93.4	1.2	12	4.9		
WET	e P	Z	15:22:02.6	87.4	93.5	1.1	17	5.1		
CLL	e P	Z	15:22:02.4	87.5	93.7	1.4	18	5.0		
TANN	e P	Z	15:22:03.3	87.8	93.3	1.2	10	5.0		
ROTZ	e P	Z	15:22:04.9	87.9	93.0	1.1	11	5.1		
MANZ	e P	Z	15:22:05.4	88.0	93.0	1.3	26	5.4		
MOX	e P	Z	15:22:06.2	88.3	92.6	1.3	12	5.1		
FUR	e P	Z	15:22:07.3	88.4	92.3	0.8	15	5.4		
GRA2	e P	Z	15:22:07.2	88.4	92.4	1.0	14	5.2		
CLZ	e P	Z	15:22:10.4	89.1	91.7	0.9	12	5.1		
BSEG	e P	Z	15:22:11.0	89.2	91.7	1.4	20	5.1		
NRDL	e P	Z	15:22:11.2	89.3	91.5	1.5	20	5.1		
BUG	e P	Z	15:22:19.6	91.1	89.2	0.8	8	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	16:09:19.7	3.430S	100.370E	49.6	6.3	5.5		SZGRF
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:22:16.0	90.4	94.8	1.6	462	6.6		
	e pP	Z	16:22:30.6							
	e S	T	16:33:06.8							
BRG	e P	Z	16:22:15.9	90.4	94.9	1.3	227	6.4		
	e pP	Z	16:22:30.5							
	e S	T	16:33:06.6							
RJOB	e P	Z	16:22:17.6	90.9	94.1	2.5	617	6.5		

	e pP	Z	16:22:32.2						
	e S	T	16:33:09.8						
WET	e P	Z	16:22:18.5	91.0	94.1	1.3	219	6.3	
	e pP	Z	16:22:33.1						
	e S	T	16:33:12.7						
CLL	e P	Z	16:22:18.2	91.0	94.2	1.4	147	6.1	
	e pP	Z	16:22:32.8						
	e S	T	16:33:10.9						
TANN	e P	Z	16:22:20.0	91.3	93.8	1.4	117	6.0	
	e pP	Z	16:22:34.6						
	e S	T	16:33:15.8						
ROTZ	e P	Z	16:22:21.1	91.4	93.6	1.4	168	6.2	
	e pP	Z	16:22:35.7						
	e S	T	16:33:17.8						
MANZ	e P	Z	16:22:21.4	91.5	93.5	1.4	234	6.3	
	e pP	Z	16:22:36.0						
	e S	T	16:33:18.4						
MOX	e P	Z	16:22:22.4	91.9	93.1	1.5	162	6.1	
	e pP	Z	16:22:37.0						
	e S	T	16:33:19.6						
FUR	e P	Z	16:22:22.5	92.0	93.0	1.2	125	6.2	
	e pP	Z	16:22:37.2						
	e S	T	16:33:18.7						
GRA2	e P	Z	16:22:23.1	92.0	93.0	1.4	197	6.4	
	e pP	Z	16:22:38.1						
	e PP	Z	16:26:02.0						
	e SKSac	R	16:32:49.8						
	e S	T	16:33:20.8						
	e L	Z	17:13:26.7			20.3	1864		5.5
CLZ	e P	Z	16:22:26.1	92.7	92.1	1.3	112	6.1	
	e pP	Z	16:22:40.7						
	e S	T	16:33:25.7						
BSEG	e P	Z	16:22:26.3	92.8	92.0	1.2	107	6.1	
	e pP	Z	16:22:40.9						
	e S	T	16:33:27.9						
NRDL	e P	Z	16:22:27.1	92.9	91.9	1.3	123	6.2	
	e pP	Z	16:22:41.6						
	e S	T	16:33:27.8						
UBBA	e P	Z	16:22:26.9	92.9	91.9	1.7	123	6.1	
	e pP	Z	16:22:41.5						
	e S	T	16:33:28.4						
STU	e P	Z	16:22:29.2	93.4	91.4	2.2	405	6.6	
	e pP	Z	16:22:43.8						
	e S	T	16:33:33.1						
BFO	e P	Z	16:22:31.5	93.9	90.8	1.4	72	6.1	
	e pP	Z	16:22:46.1						
	e S	T	16:33:37.5						
IBBN	e P	Z	16:22:33.3	94.3	90.0	1.4	131	6.4	
	e pP	Z	16:22:47.9						

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	e S	T	16:33:41.0						
BUG	e P	Z	16:22:34.6	94.6	89.7	1.4	80	6.1	
	e pP	Z	16:22:49.2						
	e S	T	16:33:44.2						
WLF	e P	Z	16:22:38.5	95.3	89.0	1.4	81	6.3	
	e pP	Z	16:22:53.1						
	e S	T	16:33:50.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	16:59:16.2	4.660S	100.220E	36.6	5.3			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 17:12:17.8	91.2	95.7	1.0	19	5.4		
BRG	e P	Z 17:12:17.8	91.3	95.8	1.3	26	5.4		
RJOB	e P	Z 17:12:19.4	91.7	95.0	0.9	16	5.3		
	e pP	Z 17:12:30.3							
WET	e P	Z 17:12:20.4	91.8	95.1	0.9	18	5.4		
	e pP	Z 17:12:31.0							
CLL	e P	Z 17:12:20.3	91.9	95.1	1.0	13	5.2		
	e pP	Z 17:12:31.0							
TANN	e P	Z 17:12:22.0	92.2	94.7	1.1	10	5.1		
ROTZ	e P	Z 17:12:23.1	92.3	94.5	1.0	17	5.3		
MANZ	e P	Z 17:12:23.4	92.4	94.4	1.0	30	5.6		
MOX	e P	Z 17:12:24.6	92.7	94.0	1.1	16	5.4		
FUR	e P	Z 17:12:24.5	92.8	93.9	0.8	20	5.6		
GRA2	e P	Z 17:12:25.7	92.8	93.9	0.9	22	5.6		
CLZ	e P	Z 17:12:28.5	93.6	93.0	1.5	22	5.3		
BSEG	e P	Z 17:12:29.0	93.7	92.8	0.7	6	5.0		
UBBA	e P	Z 17:12:29.1	93.7	92.8	1.4	10	5.0		
NRDL	e P	Z 17:12:29.6	93.8	92.8	1.4	18	5.2		
STU	e P	Z 17:12:31.2	94.2	92.3	0.6	16	5.6		
BFO	e P	Z 17:12:33.6	94.7	91.7	0.9	7	5.1		
IBBN	e P	Z 17:12:35.8	95.2	90.9	0.5	10	5.5		
WLF	e P	Z 17:12:40.8	96.2	89.9	1.2	12	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	17:23:17.8	17.310S	177.780W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 17:42:50.1	144.9	18.1					
BRG	e PKPbc	Z 17:42:51.2	145.2	19.8					
FBE	e PKPbc	Z 17:42:51.4	145.2	18.9					
MOX	e PKPbc	Z 17:42:53.1	145.8	16.1					

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WERD	e	PKPbc	Z	17:42:53.1	145.9	17.3
TANN	e	PKPbc	Z	17:42:54.1	145.9	17.6
GUNZ	e	PKPbc	Z	17:42:54.4	146.0	17.4
WERN	e	PKPbc	Z	17:42:55.0	146.0	17.5
NKC	e	PKPbc	Z	17:42:54.0	146.1	17.7
ROTZ	e	PKPbc	Z	17:42:55.4	146.6	17.5
GRA2	e	PKPbc	Z	17:42:56.0	146.8	16.1
WET	e	PKPbc	Z	17:42:57.0	147.0	18.9
GEC2	e	PKPbc	Z	17:42:56.8	147.1	20.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	18:30:43.9	2.459S	98.247E	33.0N	5.2			SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z 18:43:39.8	89.9	94.0	2.0	31	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	20:06:43.1	58.300S	148.100W	33.0		6.0		GSRC
Pacific-Antarctic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPdf	Z 20:26:44.6	162.7	230.2					
BFO	e PKPdf	Z 20:26:44.6	162.9	225.6					
FUR	e PKPdf	Z 20:26:45.3	164.1	222.6					
	e PKPab	Z 20:27:39.7							
BUG	e PKPdf	Z 20:26:46.1	164.4	234.4					
RJOB	e PKPdf	Z 20:26:46.0	164.5	220.0					
IBBN	e PKPdf	Z 20:26:46.3	165.1	236.8					
GRA2	e PKPdf	Z 20:26:46.5	165.2	226.4					
	e SS	T 20:52:07.7							
	e L	Z 21:47:10.8			19.6	2095		6.0	
UBBA	e PKPdf	Z 20:26:46.3	165.4	230.8					
WET	e PKPdf	Z 20:26:46.0	165.6	223.4					
GEC2	e PKPdf	Z 20:26:46.1	165.7	221.7					
MANZ	e PKPdf	Z 20:26:46.3	165.8	226.6					
CLZ	e PKPdf	Z 20:26:47.0	166.2	233.8					
TANN	e PKPdf	Z 20:26:46.8	166.3	227.5					
NRDL	e PKPdf	Z 20:26:46.7	166.4	236.1					
CLL	e PKPdf	Z 20:26:46.8	167.1	229.8					
BSEG	e PKPdf	Z 20:26:47.1	167.3	241.3					
BRG	e PKPdf	Z 20:26:47.5	167.3	227.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/13	23:12:31.3	3.100S	101.000E	35.0	4.8			NEIC

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	23:25:30.7	90.6	94.2					
GEC2	e P	Z	23:25:31.0	90.6	94.1	1.1	8	4.9		
WET	e P	Z	23:25:33.3	91.1	93.4	0.9	7	5.0		
CLL	e P	Z	23:25:33.1	91.2	93.5	1.2	6	4.8		
ROTZ	e P	Z	23:25:35.8	91.6	92.9	0.9	4	4.7		
MANZ	e P	Z	23:25:36.4	91.7	92.8	1.1	9	5.0		
MOX	e P	Z	23:25:37.4	92.0	92.4	1.1	4	4.7		
GRA2	e P	Z	23:25:37.9	92.1	92.3	1.2	7	4.9		
BFO	e P	Z	23:25:47.0	94.1	90.1	0.9	4	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/14	01:02:10.3	3.670S	101.280E	47.9	5.6	4.7		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:15:10.4	91.2	94.4	0.9	41	5.8		
GEC2	e P	Z	01:15:10.5	91.2	94.2	1.4	72	5.8		
RJOB	e P	Z	01:15:12.1	91.7	93.6	0.8	32	5.7		
WET	e P	Z	01:15:13.0	91.7	93.6	1.4	65	5.8		
	e pP	Z	01:15:27.1							
	e sP	Z	01:15:31.7							
CLL	e P	Z	01:15:12.7	91.8	93.6	0.9	23	5.5		
TANN	e P	Z	01:15:14.4	92.1	93.2	1.1	15	5.2		
ROTZ	e P	Z	01:15:15.6	92.2	93.1	1.0	24	5.5		
	e pP	Z	01:15:29.4							
MANZ	e P	Z	01:15:15.9	92.3	93.0	1.0	36	5.6		
MOX	e P	Z	01:15:16.9	92.6	92.6	0.9	21	5.6		
	e pP	Z	01:15:30.8							
FUR	e P	Z	01:15:17.1	92.7	92.4	0.9	31	5.8		
GRA1	e P	Z	01:15:18.3	92.8	92.3	0.9	44	5.9		
	e pP	Z	01:15:32.3							
	e PP	Z	01:19:00.7							
	e S	T	01:26:22.7							
	e L	Z	02:05:15.4			21.7	284		4.7	
CLZ	e P	Z	01:15:20.6	93.4	91.6	0.9	21	5.6		
	e pP	Z	01:15:34.0							
	e sP	Z	01:15:39.8							
BSEG	e P	Z	01:15:20.9	93.5	91.4	1.0	31	5.6		
NRDL	e P	Z	01:15:21.5	93.6	91.3	0.9	26	5.6		
UBBA	e P	Z	01:15:21.3	93.7	91.3	0.9	8	5.0		
	e pP	Z	01:15:35.5							
	e sP	Z	01:15:41.2							

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STU	e P	Z	01:15:23.7	94.1	90.9	1.0	17	5.3
BFO	e P	Z	01:15:25.9	94.7	90.2	0.8	10	5.3
IBBN	e P	Z	01:15:27.9	95.1	89.5	1.0	28	5.6
	e pP	Z	01:15:40.9					
	e sP	Z	01:15:46.5					
BUG	e P	Z	01:15:29.1	95.4	89.2	1.1	20	5.5
WLF	e P	Z	01:15:33.0	96.1	88.5	1.2	22	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/14	03:07:25.2	2.500S	99.500E	53.8	4.9			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:20:13.0	89.1	94.8	1.4	16	5.1		
BRG	e P	Z 03:20:13.0	89.1	95.0	0.9	9	5.0		
RJOB	e P	Z 03:20:14.9	89.6	94.1	0.9	6	4.8		
WET	e P	Z 03:20:15.4	89.7	94.2	1.2	12	5.0		
CLL	e P	Z 03:20:15.6	89.8	94.3	1.0	6	4.8		
TANN	e P	Z 03:20:17.6	90.0	93.9	1.4	7	4.7		
ROTZ	e P	Z 03:20:17.8	90.2	93.7	1.0	6	4.8		
MANZ	e P	Z 03:20:18.5	90.2	93.6	1.1	9	4.9		
	e pP	Z 03:20:33.0							
MOX	e P	Z 03:20:19.6	90.6	93.2	1.5	7	4.7		
GRA1	e P	Z 03:20:20.9	90.8	92.9	0.9	5	4.9		
	e pP	Z 03:20:37.5							
CLZ	e P	Z 03:20:23.5	91.4	92.2	1.7	18	5.1		
STU	e pP	Z 03:20:39.5	92.1	91.4					
BUG	e pP	Z 03:20:51.3	93.3	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/14	04:03:56.9	0.870N	99.890E	35.3	5.1			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:16:38.3	86.8	92.6	1.5	20	5.0		
	e pP	Z 04:16:47.9							
GEC2	e P	Z 04:16:38.1	86.8	92.3	1.5	27	5.2		
RUE	e P	Z 04:16:39.2	86.9	92.6	0.8	27	5.5		
CLL	e P	Z 04:16:40.7	87.4	91.9	0.4	8	5.2		
WET	e P	Z 04:16:40.7	87.4	91.7	1.4	17	5.0		
RJOB	e P	Z 04:16:41.0	87.4	91.6	0.7	5	4.7		
TANN	e P	Z 04:16:42.1	87.7	91.4	1.8	24	5.2		
ROTZ	e P	Z 04:16:43.5	87.8	91.2	1.6	17	5.1		
MANZ	e P	Z 04:16:43.7	87.9	91.1	1.2	12	5.1		
	e pP	Z 04:16:54.2							



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MOX	e P	Z	04:16:44.9	88.2	90.8	1.5	17	5.2
GRA1	e P	Z	04:16:46.2	88.5	90.5	1.7	28	5.3
	e pP	Z	04:16:57.0					
CLZ	e P	Z	04:16:48.8	89.0	89.8	1.4	13	5.0
BSEG	e P	Z	04:16:48.9	89.0	89.8	1.9	44	5.4
UBBA	e P	Z	04:16:49.7	89.3	89.5	1.2	8	4.8
STU	e P	Z	04:16:53.0	89.8	88.9	0.7	10	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/14	05:46:42.9	15.500S	176.100W	20.0N				NEIC
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPdf	Z	06:06:20.5	144.3	12.8					
MANZ	e PKPdf	Z	06:06:20.6	144.9	13.8					
ROTZ	e PKPdf	Z	06:06:19.0	145.1	14.1					
GRA1	e PKPdf	Z	06:06:19.8	145.3	12.5					
WET	e PKPdf	Z	06:06:20.6	145.6	15.4					
GEC2	e PKPdf	Z	06:06:21.0	145.7	16.9					
BFO	e PKPdf	Z	06:06:23.1	147.0	7.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/14	06:01:38.0	3.060S	101.380E	33.0G	5.4	6.1		SZGRF
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:14:36.7	90.8	93.9	1.4	38	5.5		
	e		06:14:58.5							
	e S	T	06:25:32.1							
GEC2	e P	Z	06:14:36.9	90.8	93.8	1.5	46	5.6		
	e pP	Z	06:14:47.1							
	e SKSac	R	06:25:02.2							
	e S	T	06:25:32.4							
RJOB	e P	Z	06:14:39.0	91.3	93.1	1.2	13	5.2		
WET	e P	Z	06:14:39.3	91.3	93.1	1.3	31	5.5		
	e pP	Z	06:14:49.7							
	e		06:15:01.2							
CLL	e P	Z	06:14:39.2	91.4	93.2	1.5	27	5.3		
	e		06:15:00.9							
	e S	T	06:25:37.0							
TANN	e P	Z	06:14:40.5	91.7	92.8	1.6	26	5.3		
	e		06:15:02.6							
ROTZ	e P	Z	06:14:41.4	91.8	92.6	1.5	24	5.3		
	e		06:15:03.4							
	e SKSac	R	06:25:13.8							

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MANZ	e P	Z	06:14:42.2	91.9	92.5	1.5	41	5.5	
	e		06:15:04.1						
MOX	e P	Z	06:14:43.5	92.2	92.1	1.2	15	5.2	
	e pP	Z	06:14:53.8						
	e SKSac	R	06:25:14.0						
GRA1	e P	Z	06:14:45.1	92.4	91.9	1.1	21	5.4	
	e		06:15:06.3						
	e SKSac	R	06:25:18.2						
	e S	T	06:25:48.9						
	e L	Z	07:04:54.7			19.5	7173		6.1
CLZ	e P	Z	06:14:47.8	93.0	91.1	1.3	18	5.3	
	e		06:15:08.5						
BSEG	e P	Z	06:14:47.7	93.1	90.9	1.2	27	5.5	
	e SKSac	R	06:25:17.1						
	e S	T	06:25:53.9						
	e		06:15:09.5	93.2	90.9				
NRDL	e P	Z	06:14:48.0	93.2	90.9	2.7	112	5.8	
UBBA	e pP	Z	06:14:57.8						
	e SKSac	R	06:25:21.7						
	e S	T	06:25:50.4						
IBBN	e		06:15:15.5	94.6	89.0				
	e SKSac	R	06:25:28.2						
	e S	T	06:26:06.9						
BUG	e P	Z	06:14:56.1	95.0	88.7	0.8	11	5.3	
WLF	e		06:15:21.0	95.7	88.0				
	e SKSac	R	06:25:42.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/14	11:51:33.1	22.830S	178.340W	575.5				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	12:10:15.1	148.2	15.3					
	e PKPab	Z	12:10:21.0							
NRDL	e PKPbc	Z	12:10:18.3	149.6	15.5					
	e PKPab	Z	12:10:26.6							
IBBN	e PKPbc	Z	12:10:20.5	150.2	11.3					
	e PKPab	Z	12:10:29.2							
CLL	e PKPab	Z	12:10:28.1	150.2	21.4					
	e pPKPbc	Z	12:12:33.4							
CLZ	e PKPdf	Z	12:10:14.8	150.2	16.3					
	e PKPbc	Z	12:10:19.8							
	e PKPab	Z	12:10:29.2							
BRG	e PKPbc	Z	12:10:19.8	150.4	23.4					
	e PKPab	Z	12:10:29.1							
	e pPKPbc	Z	12:12:34.1							
BUG	e PKPdf	Z	12:10:15.3	151.1	10.7					

	e	PKPbc	Z	12:10:22.4					
	e	PKPab	Z	12:10:32.8					
MOX	e	PKPdf	Z	12:10:15.9	151.1	19.3			
	e	PKPab	Z	12:10:32.5					
	e	pPKPbc	Z	12:12:36.1					
TANN	e	PKPbc	Z	12:10:21.1	151.2	21.0			
UBBA	e	PKPbc	Z	12:10:21.6	151.3	16.1			
	e	PKPab	Z	12:10:32.8					
MANZ	e	PKPdf	Z	12:10:16.6	151.6	20.6			
	e	PKPbc	Z	12:10:22.6					
	e	PKPab	Z	12:10:34.5					
	e	pPKPbc	Z	12:12:37.1					
ROTZ	e	PKPdf	Z	12:10:17.2	151.8	20.9			
	e	PKPbc	Z	12:10:23.1					
	e	PKPab	Z	12:10:35.8					
	e	pPKPbc	Z	12:12:37.4					
GRA1	e	PKPbc	Z	12:10:24.2	152.1	19.1			
	e	PKPab	Z	12:10:37.1					
WET	e	PKPdf	Z	12:10:17.5	152.2	22.6			
	e	PKPbc	Z	12:10:23.8					
	e	PKPab	Z	12:10:37.3					
	e	pPKPbc	Z	12:12:37.7					
GEC2	e	PKPdf	Z	12:10:16.7	152.3	24.4			
	e	PKPbc	Z	12:10:23.8					
	e	PKPab	Z	12:10:36.7					
GRB3	e	PKPbc	Z	12:10:24.0	152.3	20.4			
WLF	e	PKPab	Z	12:10:41.6	152.9	9.1			
	e	pPKPbc	Z	12:12:37.0					
STU	e	PKPdf	Z	12:10:19.2	153.4	15.6			
	e	PKPbc	Z	12:10:26.7					
	e	PKPab	Z	12:10:42.6					
FUR	e	PKPab	Z	12:10:43.3	153.5	20.2			
	e	pPKPbc	Z	12:12:42.8					
RJOB	e	PKPbc	Z	12:10:26.8	153.5	23.6			
	e	PKPab	Z	12:10:43.0					
BFO	e	PKPbc	Z	12:10:27.7	154.0	14.1			
	e	PKPab	Z	12:10:44.7					

Date 2007/09/14 Origin Time 13:07:48.4 Lat 2.999S Long 102.325E Depth 35.0G mb 5.0 Ms ML Source NEIC  
 Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:20:58.6	93.0	91.1	0.9	6	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:56:32.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	02:21:29.2	19.517S	171.586E	33.0		5.2		SZGRF
Vanuatu Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:40:54.5	142.7	30.0					
BRG	e PKPbc	Z 02:40:57.6	144.0	37.6					
	e pPKPbc	Z 02:41:07.6							
CLL	e PKPbc	Z 02:40:57.5	144.0	35.9					
	e pPKPbc	Z 02:41:07.6							
CLZ	e PKPbc	Z 02:41:00.0	144.5	31.5					
	e pPKPbc	Z 02:41:10.1							
IBBN	e PKPbc	Z 02:41:01.3	144.9	27.1					
	e pPKPbc	Z 02:41:11.3							
TANN	e PKPbc	Z 02:41:01.1	145.0	35.8					
	e pPKPbc	Z 02:41:11.2							
MOX	e PKPbc	Z 02:41:01.5	145.1	34.3					
	e pPKPbc	Z 02:41:11.5							
MANZ	e PKPbc	Z 02:41:02.8	145.4	35.6					
	e pPKPbc	Z 02:41:12.9							
UBBA	e PKPbc	Z 02:41:03.1	145.5	31.7					
	e pPKPbc	Z 02:41:13.0							
ROTZ	e PKPbc	Z 02:41:03.5	145.6	36.0					
	e pPKPbc	Z 02:41:13.5							
GEC2	e PKPbc	Z 02:41:03.3	145.7	39.0					
	e pPKPbc	Z 02:41:13.2							
BUG	e PKPbc	Z 02:41:04.2	145.8	26.9					
	e pPKPbc	Z 02:41:14.1							
WET	e PKPbc	Z 02:41:03.9	145.8	37.5					
	e pPKPbc	Z 02:41:14.0							
GRA1	e PKPbc	Z 02:41:05.0	146.0	34.5					
	e pPKPbc	Z 02:41:15.0							
	e PP	Z 02:44:26.5							
	e L	Z 03:46:35.9			19.4	370		5.2	
RJOB	e PKPbc	Z 02:41:08.6	147.0	38.7					
	e pPKPbc	Z 02:41:17.0							
FUR	e PKPbc	Z 02:41:08.3	147.2	35.9					
	e pPKPbc	Z 02:41:18.2							
STU	e PKPbc	Z 02:41:09.3	147.5	32.0					
	e pPKPbc	Z 02:41:19.1							
BFO	e PKPbc	Z 02:41:10.8	148.2	31.0					

e pPKPbc Z 02:41:20.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	05:26:52.2	37.270N	36.630E	10.0G	4.6			SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:31:27.7	20.2	116.3	1.2	14	4.1		
RJOB	e P	Z 05:31:31.2	20.3	112.2	1.0	13	4.1		
WET	e P	Z 05:31:34.4	20.9	115.8	1.5	33	4.4		
BRG	e P	Z 05:31:38.4	21.1	121.4	1.7	40	4.5		
FUR	e P	Z 05:31:41.2	21.4	111.2	0.8	44	4.8		
ROTZ	e P	Z 05:31:41.8	21.5	116.2	0.9	20	4.6		
TANN	e P	Z 05:31:43.4	21.7	118.1	1.0	13	4.3		
MANZ	e P	Z 05:31:45.2	21.7	116.6	1.0	24	4.6		
CLL	e P	Z 05:31:47.0	21.8	120.8	1.0	13	4.3		
GRA1	e P	Z 05:31:47.7	22.1	114.6	0.9	35	4.8		
MOX	e P	Z 05:31:49.5	22.2	117.3	0.9	12	4.3		
UBBA	e P	Z 05:32:00.8	23.2	115.3	1.8	50	4.7		
BFO	e P	Z 05:32:01.4	23.3	107.8	1.4	85	5.1		
CLZ	e P	Z 05:32:00.4	23.5	118.0	1.6	29	4.6		
BUG	e P	Z 05:32:17.7	25.1	112.9	2.1	98	5.2		
IBBN	e P	Z 05:32:18.9	25.1	115.2	1.7	47	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	07:30: 8.5	2.157N	63.990E	33.0N	5.1			SZGRF

Carlsberg Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRC2	e P	Z 07:40:21.3	64.7	118.6					
NKC	e P	Z 07:40:45.1	64.8	120.1	1.1	15	5.1		
WERN	e P	Z 07:40:45.5	64.8	120.1	1.2	18	5.2		
GUNZ	e P	Z 07:40:46.0	64.9	120.0	1.1	9	4.9		
CLL	e P	Z 07:40:46.3	65.0	121.0	1.1	13	5.1		
GRA1	e P	Z 07:40:46.7	65.2	118.8	2.3	61	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	10:31: 5.1	18.880N	90.810W	147.4	5.4			SZGRF

Yucatan Peninsula, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e pP	Z 10:43:38.4	80.2	288.1					
IBBN	e P	Z 10:43:00.6	80.2	288.3	1.8	106	5.5		

	e pP	Z	10:43:37.4							
BSEG	e P	Z	10:43:04.9	81.1	290.0	1.0		31	5.3	
	e pP	Z	10:43:42.6							
BFO	e P	Z	10:43:08.5	81.8	289.3	1.3		37	5.3	
	e pP	Z	10:43:45.8							
CLZ	e P	Z	10:43:09.4	81.9	290.3	1.7		66	5.5	
	e pP	Z	10:43:46.5							
UBBA	e P	Z	10:43:09.8	82.0	290.2	1.8		48	5.3	
	e pP	Z	10:43:47.2							
STU	e P	Z	10:43:12.8	82.2	289.9	1.3		52	5.5	
	e pP	Z	10:43:48.2							
MOX	e P	Z	10:43:15.4	83.0	291.4	1.5		35	5.4	
	e pP	Z	10:43:52.2							
GRA1	e P	Z	10:43:15.7	83.2	291.2	1.9		103	5.7	
	e pP	Z	10:43:53.2							
WERD	e pP	Z	10:43:54.3	83.5	292.0					
GUNZ	e P	Z	10:43:17.5	83.6	292.0	1.3		26	5.3	
	e pP	Z	10:43:54.8							
MANZ	e P	Z	10:43:17.9	83.6	291.9					
	e pP	Z	10:43:55.0							
CLL	e P	Z	10:43:18.2	83.6	292.4	1.3		18	5.2	
	e pP	Z	10:43:55.1							
WERN	e pP	Z	10:43:55.6	83.6	292.0					
TANN	e P	Z	10:43:18.4	83.6	292.1	1.4		33	5.4	
	e pP	Z	10:43:55.3							
ROTZ	e pP	Z	10:43:55.3	83.7	292.0					
FUR	e pP	Z	10:43:55.3	83.7	291.4					
FBE	e P	Z	10:43:19.9	84.0	292.7	2.1		77	5.6	
	e pP	Z	10:43:56.7							
BRG	e pP	Z	10:43:59.6	84.3	293.1					
WET	e P	Z	10:43:22.0	84.4	292.5	1.2		18	5.2	
	e pP	Z	10:43:58.2							
RJOB	e pP	Z	10:44:00.5	84.8	292.6					
GEC2	e P	Z	10:43:25.3	85.0	293.1	2.6		77	5.5	
	e pP	Z	10:44:01.2							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/15 11:55:40.6 20.468S 169.762E 33.0  
 Vanuatu Islands SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 12:15:12.8	144.8	34.9					
TANN	e PKPbc	Z 12:15:13.6	145.1	39.2					
WERD	e PKPbc	Z 12:15:13.4	145.1	38.9					
	e pPKPbc	Z 12:15:23.4							
GUNZ	e PKPbc	Z 12:15:14.0	145.2	39.1					
	e pPKPbc	Z 12:15:23.9							

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WERN	e PKPbc	Z	12:15:14.2	145.2	39.2
	e pPKPbc	Z	12:15:23.9		
MOX	e PKPbc	Z	12:15:14.0	145.3	37.7
	e pPKPbc	Z	12:15:23.8		
MANZ	e PKPbc	Z	12:15:15.3	145.6	39.1
	e pPKPbc	Z	12:15:24.8		
ROTZ	e PKPbc	Z	12:15:15.7	145.7	39.4
	e pPKPbc	Z	12:15:25.6		
UBBA	e PKPbc	Z	12:15:15.4	145.7	35.1
GEC2	e PKPbc	Z	12:15:15.6	145.8	42.5
	e pPKPbc	Z	12:15:26.0		
WET	e PKPbc	Z	12:15:16.0	145.9	41.0
GRA1	e PKPbc	Z	12:15:16.9	146.2	38.0
	e pPKPbc	Z	12:15:27.0		
RJOB	e PKPbc	Z	12:15:19.6	147.0	42.3
STU	e PKPbc	Z	12:15:21.9	147.7	35.7
BFO	e PKPbc	Z	12:15:23.3	148.4	34.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	14:26:58.9	4.400S	101.100E	35.0	5.1			NEIC
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:40:02.7	91.6	94.9	1.0	8	5.0		
	e pP	Z	14:40:11.0							
BRG	e P	Z	14:40:02.8	91.6	95.0	1.0	7	4.9		
	e pP	Z	14:40:11.3							
RJOB	e P	Z	14:40:04.2	92.1	94.2	2.5	67	5.5		
WET	e P	Z	14:40:05.3	92.2	94.2	1.0	7	5.0		
	e pP	Z	14:40:13.5							
GUNZ	e pP	Z	14:40:15.8	92.6	93.8					
WERD	e pP	Z	14:40:15.8	92.6	93.7					
ROTZ	e pP	Z	14:40:16.2	92.6	93.7					
MANZ	e P	Z	14:40:08.2	92.7	93.6	0.9	6	5.0		
	e pP	Z	14:40:16.5							
GRA1	e P	Z	14:40:11.1	93.3	92.9	0.9	7	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	14:45:36.7	2.730S	100.440E	71.3	5.7			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:58:27.9	89.9	94.4	1.0	66	5.8		
	e pP	Z	14:58:47.4							
GEC2	e P	Z	14:58:28.0	89.9	94.3	1.7	202	6.1		

	e pP	Z	14:58:47.0						
FBE	e P	Z	14:58:29.6	90.3	94.0	1.1	82	5.9	
	e pP	Z	14:58:49.3						
RJOB	e P	Z	14:58:29.6	90.4	93.6	1.0	34	5.5	
WET	e P	Z	14:58:30.5	90.5	93.6	1.1	72	5.8	
	e pP	Z	14:58:50.1						
	e PP	Z	15:02:06.2						
CLL	e P	Z	14:58:30.3	90.5	93.7	1.2	54	5.7	
	e pP	Z	14:58:49.9						
TANN	e P	Z	14:58:32.0	90.8	93.3	1.5	56	5.7	
WERN	e P	Z	14:58:32.4	90.9	93.2	1.1	35	5.6	
	e pP	Z	14:58:51.9						
GUNZ	e P	Z	14:58:32.5	90.9	93.2	1.1	47	5.7	
	e pP	Z	14:58:52.1						
WERD	e P	Z	14:58:32.4	90.9	93.2	1.2	44	5.7	
	e pP	Z	14:58:52.1						
	e PP	Z	15:02:08.8						
ROTZ	e P	Z	14:58:33.1	90.9	93.1	1.2	50	5.7	
	e pP	Z	14:58:52.8						
MANZ	e P	Z	14:58:33.4	91.0	93.0	1.2	95	6.0	
	e pP	Z	14:58:52.7						
MOX	e P	Z	14:58:34.5	91.4	92.6	1.4	59	5.7	
	e pP	Z	14:58:54.6						
	e PP	Z	15:02:12.4						
FUR	e P	Z	14:58:34.6	91.5	92.4	1.1	48	5.7	
	e pP	Z	14:58:54.8						
GRA1	e P	Z	14:58:35.9	91.6	92.4	1.1	59	5.8	
	e pP	Z	14:58:55.3						
CLZ	e P	Z	14:58:38.2	92.2	91.6	1.1	44	5.7	
	e pP	Z	14:58:57.7						
	e PP	Z	15:02:18.7						
BSEG	e P	Z	14:58:38.4	92.3	91.5	1.1	52	5.8	
	e pP	Z	14:58:58.3						
NRDL	e P	Z	14:58:39.1	92.4	91.4	1.1	48	5.7	
	e pP	Z	14:58:58.8						
UBBA	e P	Z	14:58:38.9	92.4	91.4	1.7	53	5.6	
STU	e P	Z	14:58:41.2	92.9	90.9	2.2	172	6.1	
BFO	e P	Z	14:58:43.5	93.4	90.2	1.0	21	5.5	
	e pP	Z	14:59:03.0						
IBBN	e P	Z	14:58:45.3	93.8	89.5	1.1	47	5.7	
	e pP	Z	14:59:05.2						
BUG	e P	Z	14:58:46.6	94.1	89.2	1.2	36	5.6	
	e pP	Z	14:59:07.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	15:04:44.6	3.200S	100.800E	35.0	5.2			NEIC
Southern Sumatera, Indonesia								



Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:17:45.2	90.5	94.5	1.5	16	5.1		
GEC2	e P	Z	15:17:44.3	90.5	94.3	1.6	17	5.0		
MANZ	e P	Z	15:17:50.5	91.6	93.1	2.5	68	5.5		
GRA1	e P	Z	15:17:52.3	92.2	92.4	0.9	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	17:59:50.1	14.293N	87.134W	33.0G	5.2	4.6		SZGRF

Honduras

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	18:12:04.3	81.6	282.4					
IBBN	e P	Z	18:12:05.0	81.7	282.6	1.1	48	5.5		
BSEG	e P	Z	18:12:11.2	82.8	284.4	1.1	49	5.3		
BFO	e P	Z	18:12:11.4	82.9	283.6	1.3	21	4.9		
NRDL	e P	Z	18:12:12.6	83.0	284.4	1.1	33	5.2		
CLZ	e P	Z	18:12:14.3	83.3	284.7	1.0	42	5.3		
UBBA	e P	Z	18:12:14.0	83.4	284.5	1.9	36	5.0		
STU	e P	Z	18:12:14.0	83.4	284.2	1.1	22	5.0		
MOX	e P	Z	18:12:19.6	84.4	285.8	1.1	15	4.9		
GRA1	e P	Z	18:12:19.7	84.4	285.6	1.2	29	5.2		
	e		18:12:22.9							
	e L	Z	18:46:11.6			20.5	269		4.6	
FUR	e P	Z	18:12:22.1	84.9	285.7	1.2	24	5.2		
MANZ	e P	Z	18:12:22.3	84.9	286.2	1.1	15	5.0		
TANN	e P	Z	18:12:22.9	85.0	286.4	1.1	29	5.3		
ROTZ	e P	Z	18:12:23.3	85.0	286.3	1.1	16	5.0		
	e pP	Z	18:12:25.8							
CLL	e P	Z	18:12:22.9	85.1	286.8	1.1	23	5.2		
WET	e P	Z	18:12:26.3	85.6	286.8	1.2	47	5.5		
BRG	e P	Z	18:12:26.7	85.8	287.5	1.2	21	5.3		
RJOB	e P	Z	18:12:27.8	86.0	286.9	1.1	28	5.4		
GEC2	e P	Z	18:12:29.1	86.2	287.5	1.2	40	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	18:27:30.7	4.276S	99.604E	26.7	5.3			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:40:29.2	90.5	95.9	1.5	34	5.3		
BRG	e P	Z	18:40:29.1	90.6	96.1	1.4	23	5.3		
RJOB	e P	Z	18:40:30.6	91.0	95.2	1.0	7	4.9		
WET	e P	Z	18:40:31.9	91.1	95.3	1.5	26	5.4		
CLL	e P	Z	18:40:32.1	91.2	95.3	1.1	12	5.2		

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TANN	e P	Z	18:40:33.3	91.5	94.9	2.4	55	5.5
ROTZ	e P	Z	18:40:34.6	91.6	94.7	2.2	61	5.5
MANZ	e P	Z	18:40:34.9	91.7	94.7	1.1	18	5.3
MOX	e P	Z	18:40:35.9	92.0	94.3	1.2	12	5.1
FUR	e P	Z	18:40:37.0	92.1	94.1	0.9	12	5.2
GRA1	e P	Z	18:40:37.5	92.2	94.0	1.1	24	5.4
	e pP	Z	18:40:45.3					
CLZ	e P	Z	18:40:39.8	92.9	93.2	1.2	16	5.3
NRDL	e P	Z	18:40:41.0	93.1	93.0	1.4	22	5.4
STU	e P	Z	18:40:42.9	93.5	92.5	1.4	21	5.4
BFO	e P	Z	18:40:44.8	94.0	91.9	1.1	9	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:06:24.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/15	23:28:54.6	37.320N	36.359E	33.0N	4.4			SZGRF
Turkey								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 23:33:24.3	20.0	116.6	3.2	154	4.7		
RJOB	e P	Z 23:33:26.1	20.1	112.5	0.9	7	3.9		
WET	e P	Z 23:33:30.0	20.7	116.1	1.1	17	4.3		
BRG	e P	Z 23:33:33.8	20.9	121.8	1.0	7	4.0		
FUR	e P	Z 23:33:37.0	21.2	111.4	1.0	33	4.6		
ROTZ	e P	Z 23:33:37.9	21.3	116.5	0.9	13	4.2		
TANN	e P	Z 23:33:39.2	21.5	118.4	1.1	16	4.4		
MANZ	e P	Z 23:33:41.7	21.5	116.9	1.0	17	4.4		
CLL	e P	Z 23:33:40.3	21.6	121.2	1.0	10	4.2		
GRA1	e P	Z 23:33:45.1	21.9	114.9	0.9	23	4.6		
MOX	e P	Z 23:33:47.5	22.1	117.6	1.2	15	4.3		
UBBA	e P	Z 23:33:56.8	23.1	115.6	1.3	12	4.2		
BFO	e P	Z 23:33:56.8	23.1	108.0	1.3	52	4.9		
CLZ	e P	Z 23:33:58.7	23.3	118.3	1.0	16	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/16	01:15:25.2	5.610S	102.980E	47.6	5.5			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	01:28:36.8	93.7	94.3	1.1	26	5.5
GEC2	e P	Z	01:28:36.9	93.7	94.2	1.5	46	5.6
WET	e P	Z	01:28:39.5	94.3	93.6	1.0	21	5.5
CLL	e P	Z	01:28:39.0	94.4	93.5	1.1	17	5.4
TANN	e P	Z	01:28:40.8	94.7	93.2			
ROTZ	e P	Z	01:28:42.0	94.8	93.0			
MOX	e P	Z	01:28:43.4	95.2	92.5	1.3	22	5.5
FUR	e P	Z	01:28:43.5	95.3	92.5	1.0	16	5.5
GRA1	e P	Z	01:28:44.8	95.4	92.3	1.0	19	5.6
	e sP	Z	01:29:03.8					
CLZ	e P	Z	01:28:47.2	96.0	91.4	1.0	15	5.5
BSEG	e P	Z	01:28:47.3	96.1	91.2	0.9	13	5.4
NRDL	e P	Z	01:28:48.2	96.2	91.1			
UBBA	e P	Z	01:28:47.9	96.2	91.2			
STU	e P	Z	01:28:50.3	96.7	90.9			
BFO	e P	Z	01:28:52.4	97.3	90.3	0.9	7	5.4
IBBN	e P	Z	01:28:54.5	97.6	89.3			
BUG	e P	Z	01:28:55.7	97.9	89.0			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/16 05:28: 9.9 19.370S 177.310W 33.0N  
 Fiji Islands region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 05:47:42.3	144.9	12.6					
IBBN	e PKPbc	Z 05:47:48.5	146.8	8.8					
CLZ	e PKPbc	Z 05:47:49.1	147.0	13.4					
CLL	e PKPbc	Z 05:47:48.9	147.0	18.1					
BRG	e PKPbc	Z 05:47:49.7	147.3	19.9					
BUG	e PKPbc	Z 05:47:50.7	147.7	8.1					
TANN	e PKPbc	Z 05:47:52.0	148.0	17.6					
ROTZ	e PKPbc	Z 05:47:53.8	148.7	17.5					
GRA1	e PKPbc	Z 05:47:54.2	148.9	15.7					
	e PKPab	Z 05:47:58.1							
GEC2	e PKPbc	Z 05:47:54.9	149.2	20.6					
STU	e PKPbc	Z 05:47:57.5	150.1	12.4					
	e PKPab	Z 05:48:02.8							
FUR	e PKPbc	Z 05:47:57.9	150.4	16.6					
	e PKPab	Z 05:48:04.2							
RJOB	e PKPab	Z 05:48:05.0	150.5	19.6					
BFO	e PKPbc	Z 05:47:58.7	150.7	10.9					
	e PKPab	Z 05:48:05.3							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/16 09:10: 4.4 5.892S 102.827E 33.0N 5.2  
 SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	09:23:18.1	93.9	94.5	1.0	9	5.0		
BRG	e P	Z	09:23:18.1	93.9	94.6	1.0	12	5.2		
RJOB	e P	Z	09:23:19.9	94.4	93.9					
WET	e P	Z	09:23:20.6	94.4	93.9	1.0	9	5.1		
CLL	e P	Z	09:23:20.4	94.5	93.8					
ROTZ	e P	Z	09:23:23.1	94.9	93.3					
MOX	e P	Z	09:23:24.6	95.3	92.8					
GRA1	e P	Z	09:23:26.3	95.5	92.6	1.0	14	5.3		
CLZ	e P	Z	09:23:28.7	96.1	91.7					
BSEG	e P	Z	09:23:28.9	96.2	91.5					
NRDL	e P	Z	09:23:29.5	96.3	91.4					
IBBN	e P	Z	09:23:35.4	97.8	89.6					
BUG	e P	Z	09:23:37.1	98.1	89.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/16	11:37:30.8	6.150S	102.440E	47.0	5.8			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	11:50:42.8	93.8	95.0	1.7	134	6.0		
BRG	e P	Z	11:50:42.7	93.8	95.1	0.9	50	5.9		
RJOB	e P	Z	11:50:44.5	94.3	94.4					
WET	e P	Z	11:50:45.5	94.4	94.4	0.9	43	5.8		
CLL	e P	Z	11:50:45.1	94.4	94.3	1.1	32	5.6		
TANN	e P	Z	11:50:46.8	94.7	93.9					
ROTZ	e P	Z	11:50:47.9	94.8	93.8					
MOX	e P	Z	11:50:49.3	95.3	93.3	1.3	33	5.6		
FUR	e P	Z	11:50:49.4	95.4	93.2	0.9	31	5.7		
GRA1	e P	Z	11:50:50.5	95.5	93.1	0.9	39	5.8		
	e pP	Z	11:51:04.5							
CLZ	e P	Z	11:50:53.2	96.1	92.2	0.9	23	5.7		
BSEG	e P	Z	11:50:53.4	96.2	91.9	0.9	34	5.9		
NRDL	e P	Z	11:50:53.9	96.3	91.9					
UBBA	e P	Z	11:50:53.8	96.3	92.0					
STU	e P	Z	11:50:56.0	96.8	91.6					
BFO	e P	Z	11:50:58.2	97.3	91.0	0.9	19	5.7		
IBBN	e P	Z	11:51:00.4	97.7	90.1					
BUG	e P	Z	11:51:01.5	98.0	89.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/16	14:02:1.8	9.353S	43.295E	33.0N	5.2			SZGRF

Northwest of Madagascar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	14:12:26.3	63.2	145.9					
GEC2	e P	Z	14:12:30.7	63.8	147.1	1.1	13	5.1		
WET	e P	Z	14:12:33.8	64.3	146.3	1.8	16	5.0		
ROTZ	e P	Z	14:12:39.2	65.1	145.8					
GRA1	e P	Z	14:12:41.2	65.4	144.8	1.0	16	5.2		
BRG	e P	Z	14:12:41.5	65.4	147.9	3.0	116	5.6		
STU	e P	Z	14:12:42.0	65.4	142.5					
BFO	e P	Z	14:12:41.4	65.4	141.5	0.9	10	5.1		
TANN	e P	Z	14:12:42.8	65.5	146.2					
MOX	e P	Z	14:12:45.5	66.0	145.4	1.1	8	4.9		
CLL	e P	Z	14:12:45.3	66.1	147.0	2.4	52	5.3		
UBBA	e P	Z	14:12:49.9	66.7	143.9					
CLZ	e P	Z	14:12:55.3	67.4	144.5	1.6	31	5.3		
NRDL	e P	Z	14:12:58.8	68.0	144.4					
BUG	e P	Z	14:12:59.8	68.3	141.3	1.4	36	5.4		
IBBN	e P	Z	14:13:02.9	68.8	142.0					
BSEG	e P	Z	14:13:05.4	69.2	144.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/16	20:43:10.8	54.891N	162.900E	33.0N	5.6			SZGRF
Near east coast of Kamchatka Peninsula, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:54:12.3	68.9	16.5	0.9	45	5.7		
NRDL	e P	Z	20:54:20.5	70.3	16.2					
IBBN	e P	Z	20:54:24.2	70.8	14.8	0.9	70	5.8		
CLZ	e P	Z	20:54:24.8	70.9	16.3	0.9	78	5.8		
CLL	e P	Z	20:54:24.0	70.9	17.8	1.0	79	5.8		
BRG	e P	Z	20:54:25.6	71.1	18.3	1.0	34	5.4		
BUG	e P	Z	20:54:29.6	71.8	14.5	0.9	44	5.6		
MOX	e P	Z	20:54:29.8	71.8	16.9	0.9	53	5.7		
TANN	e P	Z	20:54:30.2	71.8	17.4					
UBBA	e P	Z	20:54:30.3	71.9	16.0					
ROTZ	e P	Z	20:54:34.2	72.5	17.2					
GRA1	e P	Z	20:54:36.2	72.8	16.6	0.8	98	6.0		
WET	e P	Z	20:54:37.2	73.0	17.5	0.9	38	5.5		
GEC2	e P	Z	20:54:37.6	73.1	17.9	0.8	22	5.3		
STU	e P	Z	20:54:42.8	74.0	15.4					
FUR	e P	Z	20:54:43.9	74.2	16.5	1.0	41	5.4		
RJOB	e P	Z	20:54:45.0	74.3	17.3					
BFO	e P	Z	20:54:46.3	74.6	14.8	0.9	34	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/09/16 21:17: 0.2 48.286N 154.014E 24.1 5.2 SZGRF  
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 21:28:37.0	74.6	24.0					
CLL	e P	Z 21:28:38.1	75.0	25.7	0.9	26	5.2		
BRG	e P	Z 21:28:39.0	75.1	26.2	2.2	54	5.2		
CLZ	e P	Z 21:28:40.1	75.2	24.1	1.3	33	5.3		
IBBN	e P	Z 21:28:40.8	75.4	22.5	1.8	59	5.4		
MOX	e P	Z 21:28:43.9	75.9	24.7	1.1	16	5.1		
UBBA	e P	Z 21:28:45.8	76.2	23.7					
BUG	e P	Z 21:28:46.1	76.3	22.1	1.0	21	5.2		
ROTZ	e P	Z 21:28:48.1	76.6	25.0					
GRA1	e P	Z 21:28:49.6	76.9	24.4	0.8	35	5.5		
	e pP	Z 21:28:56.5							
WET	e P	Z 21:28:50.4	77.0	25.4	1.0	25	5.3		
GEC2	e P	Z 21:28:49.9	77.0	25.9	0.9	10	5.0		
RJOB	e P	Z 21:28:57.3	78.3	25.2					
FUR	e P	Z 21:28:57.1	78.3	24.3	1.2	47	5.4		
BFO	e P	Z 21:29:00.5	78.9	22.5	1.0	20	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/17 00:35:29.8 54.080N 169.317E 33.0N 4.7 5.2 ML SZGRF  
Komandorsky Islands, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:47:06.1	74.6	13.1	1.5	11	4.7		
	e L	Z 01:07:53.7			21.2	1308		5.2	

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/17 05:55:54.7 54.890N 166.360E 33.0N 5.2 4.7 ML SZGRF  
Komandorsky Islands, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 06:07:01.8	69.4	14.4	1.8	60	5.4		
IBBN	e P	Z 06:07:14.2	71.3	12.8	0.6	20	5.4		
CLZ	e P	Z 06:07:14.3	71.4	14.3	1.0	13	5.0		
CLL	e P	Z 06:07:14.8	71.5	15.8	1.2	24	5.2		
BRG	e P	Z 06:07:16.1	71.8	16.3	1.2	21	5.1		
TANN	e P	Z 06:07:20.5	72.5	15.4	1.3	20	5.1		
ROTZ	e P	Z 06:07:24.6	73.1	15.2	1.3	20	5.1		
GRA1	e P	Z 06:07:25.9	73.4	14.6	1.1	36	5.3		
	e L	Z 06:45:07.0			19.0	348		4.7	
WET	e P	Z 06:07:27.5	73.6	15.5	1.0	22	5.1		
GEC2	e P	Z 06:07:28.2	73.8	16.0	0.9	20	5.1		

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RJOB	e P	Z	06:07:35.4	75.0	15.4	1.0	16	5.0
BFO	e P	Z	06:07:35.8	75.1	12.9	1.7	28	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/17	11:52:13.9	18.700S	175.360W	276.2				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	12:11:15.2	144.5	9.3					
NRDL	e PKPbc	Z	12:11:20.2	145.9	9.3					
	e pPKPbc	Z	12:12:29.7							
IBBN	e PKPbc	Z	12:11:21.5	146.3	5.3					
CLZ	e PKPbc	Z	12:11:22.3	146.6	9.9					
CLL	e PKPbc	Z	12:11:22.6	146.7	14.5					
	e pPKPbc	Z	12:12:31.1							
BRG	e PKPbc	Z	12:11:23.5	147.0	16.3					
BUG	e PKPbc	Z	12:11:23.7	147.2	4.6					
MOX	e PKPbc	Z	12:11:25.0	147.6	12.4					
UBBA	e PKPbc	Z	12:11:25.1	147.6	9.5					
TANN	e PKPbc	Z	12:11:25.5	147.7	14.0					
ROTZ	e PKPbc	Z	12:11:27.5	148.3	13.8					
	e pPKPbc	Z	12:12:36.2							
GRA1	e PKPbc	Z	12:11:28.0	148.6	12.0					
WET	e PKPbc	Z	12:11:28.5	148.8	15.2					
GEC2	e PKPbc	Z	12:11:28.9	149.0	16.8					
	e PKPab	Z	12:11:33.4							
	e pPKPbc	Z	12:12:37.7							
WLF	e PKPbc	Z	12:11:29.5	149.0	2.8					
	e PKPab	Z	12:11:33.5							
	e pPKPbc	Z	12:12:38.0							
STU	e PKPbc	Z	12:11:30.7	149.7	8.6					
FUR	e PKPbc	Z	12:11:31.5	150.0	12.7					
	e PKPab	Z	12:11:37.4							
	e pPKPbc	Z	12:12:40.5							
RJOB	e PKPbc	Z	12:11:31.7	150.2	15.7					
	e PKPab	Z	12:11:38.7							
BFO	e PKPbc	Z	12:11:31.8	150.2	7.0					
	e PKPab	Z	12:11:37.8							
	e pPKPbc	Z	12:12:40.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/17	13:01:30.5	24.900S	179.800E	491.0				NEIC
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e PKPab Z 13:20:49.0 153.7 23.9

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/17 15:55:47.2 3.023S 99.589E 27.7 5.2 4.4  
 Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:08:41.7	89.6	95.1	1.4	26	5.3		
	e pP	Z 16:08:50.1							
BRG	e P	Z 16:08:42.2	89.6	95.3	1.5	30	5.3		
	e pP	Z 16:08:50.0							
WET	e P	Z 16:08:44.9	90.1	94.5	1.2	16	5.1		
	e pP	Z 16:08:52.6							
CLL	e P	Z 16:08:45.1	90.2	94.6	1.5	21	5.2		
	e pP	Z 16:08:52.7							
TANN	e P	Z 16:08:46.6	90.5	94.1	1.5	9	4.8		
ROTZ	e P	Z 16:08:47.6	90.6	94.0	1.6	22	5.2		
	e pP	Z 16:08:55.2							
MOX	e P	Z 16:08:48.8	91.1	93.5	1.6	19	5.2		
	e pP	Z 16:08:58.9							
GRA1	e P	Z 16:08:50.3	91.2	93.2	1.2	24	5.4		
	e S	N 16:19:53.3							
	e L	Z 17:02:00.9			19.7	151		4.4	
TNS	e P	Z 16:08:58.1	93.1	91.1	1.1	17	5.4		
	e pP	Z 16:09:05.9							
BFO	e P	Z 16:08:58.6	93.1	91.1	2.7	65	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/17 18:43:48.4 45.557N 9.363E 10.0G 3.2  
 Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pg	Z 18:44:20.2	1.8	191.8					3.0
	e Sg	Z 18:44:44.3							
WTTA	e Pn	Z 18:44:27.3	2.3	223.4					2.6
BFO	e Pn	Z 18:44:33.2	2.9	165.3					3.1
	e Sn	N 18:45:05.9							
KBA	e Pn	Z 18:44:37.1	3.1	242.5					
RJOB	e Pn	Z 18:44:38.2	3.2	228.5					
STU	e Sn	N 18:45:14.6	3.2	177.9					3.5
MOA	e Pn	Z 18:44:48.8	4.1	237.5					
WET	e Pn	Z 18:44:52.0	4.3	214.9					3.0
	e Sn	N 18:45:40.3							
GEC2	e Pn	Z 18:44:53.1	4.4	223.5					3.0
	e Sn	E 18:45:42.6							





	e L	Z	08:30:06.6			21.0	2171		5.6
WERN	e P	Z	07:40:52.6	90.8	93.4	3.2	585	6.4	
GUNZ	e P	Z	07:40:52.8	90.9	93.4	1.8	175	6.1	
	e pP	Z	07:41:06.7						
WERD	e P	Z	07:40:52.6	90.9	93.3	2.0	173	6.0	
MANZ	e P	Z	07:40:53.8	91.0	93.2	1.8	274	6.3	
	e L	Z	08:30:27.9			21.2	2556		5.6
MOX	e P	Z	07:40:54.7	91.3	92.8	1.9	177	6.1	
	e pP	Z	07:41:08.9						
	e L	Z	08:29:19.4			21.3	3020		5.7
FUR	e L	Z	08:32:10.4	91.4	92.6	20.8	2168		5.6
GRFO	e P	Z	07:40:56.3	91.5	92.5	1.8	232	6.2	
	e pP	Z	07:41:10.3						
	e L	Z	08:31:09.8			21.1	1801		5.5
BSEG	e P	Z	07:40:58.8	92.2	91.7	2.0	135	6.0	
	e L	Z	08:29:58.6			21.2	3745		5.8
NRDL	e P	Z	07:40:59.6	92.3	91.6	2.1	238	6.3	
	e L	Z	08:33:45.6			19.8	1672		5.5
UBBA	e P	Z	07:40:59.1	92.4	91.5	1.9	123	6.0	
	e pP	Z	07:41:13.3						
	e L	Z	08:29:46.5			20.7	1922		5.5
STU	e P	Z	07:41:01.8	92.8	91.0	1.9	179	6.2	
	e L	Z	08:28:57.5			21.8	1838		5.5
TNS	e P	Z	07:41:04.2	93.3	90.4	2.0	199	6.1	
	e pP	Z	07:41:18.2						
	e L	Z	08:30:31.5			20.0	2313		5.6
BFO	e P	Z	07:41:03.9	93.4	90.4	1.7	68	5.7	
	e L	Z	08:33:00.0			19.6	1816		5.5
HLG	e L	Z	08:29:02.8	93.7	89.7	21.6	2561		5.6
IBBN	e L	Z	08:31:36.7	93.8	89.7	21.3	2964		5.7
BUG	e L	Z	08:31:58.2	94.1	89.4	21.0	2602		5.7
WLF	e P	Z	07:41:10.8	94.8	88.7	1.7	86	5.9	
	e L	Z	08:30:23.7			19.7	2176		5.6

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/19 11:57:33.1 50.744N 179.055W 68.3 5.5  
 Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 12:09:03.4	74.2	8.1	0.9	168	6.1		
BSEG	e P	Z 12:09:07.9	75.0	6.1	1.4	116	5.7		
	e pP	Z 12:09:24.8							
NRDL	e P	Z 12:09:15.8	76.5	5.9	1.4	59	5.5		
IBBN	e P	Z 12:09:17.8	76.8	4.4	1.4	175	6.0		
CLL	e P	Z 12:09:20.6	77.4	7.8	1.6	58	5.5		
	e sP	Z 12:09:47.4							
BUG	e P	Z 12:09:22.1	77.7	4.1	1.6	112	5.7		

BRG	e P	Z	12:09:22.8	77.8	8.4	1.4	46	5.4
FBE	e P	Z	12:09:23.0	77.8	8.0	1.5	92	5.7
	e sP	Z	12:09:50.0					
UBBA	e P	Z	12:09:24.6	78.1	5.8	1.7	76	5.4
	e sP	Z	12:09:50.9					
MOX	e P	Z	12:09:25.2	78.2	6.9	1.5	66	5.4
	e pP	Z	12:09:43.5					
WERD	e P	Z	12:09:26.0	78.3	7.3	1.5	53	5.3
TANN	e P	Z	12:09:26.0	78.4	7.4	1.6	56	5.3
GUNZ	e P	Z	12:09:26.4	78.4	7.3	1.6	76	5.5
WERN	e P	Z	12:09:27.2	78.5	7.4	1.5	75	5.5
MANZ	e P	Z	12:09:28.7	78.8	7.2	1.5	33	5.1
TNS	e P	Z	12:09:28.7	78.8	4.8	1.6	74	5.5
	e sP	Z	12:09:55.9					
GRFO	e P	Z	12:09:31.2	79.2	6.6	1.4	90	5.5
GRA2	e P	Z	12:09:31.2	79.2	6.7			
WLF	e P	Z	12:09:32.6	79.5	3.3	1.5	76	5.4
	e sP	Z	12:09:59.3					
WET	e P	Z	12:09:33.1	79.6	7.6	1.6	43	5.1
	e sP	Z	12:09:59.7					
GEC2	e P	Z	12:09:34.0	79.8	8.2	1.5	43	5.2
STU	e P	Z	12:09:35.9	80.2	5.3	1.4	60	5.4
FUR	e P	Z	12:09:38.7	80.7	6.6	1.5	63	5.4
BFO	e P	Z	12:09:38.6	80.7	4.7	1.4	30	5.1
RJOB	e P	Z	12:09:40.5	81.0	7.6	1.5	26	5.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/19 17:16:55.2 30.910S 13.440W 33.0N 5.3  
 Southern Mid-Atlantic Ridge SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	17:29:09.2	81.6	198.8	1.1	28	5.2		
RJOB	e P	Z	17:29:11.4	82.1	202.5	0.9	16	5.1		
FUR	e P	Z	17:29:12.1	82.1	201.2	1.1	48	5.6		
STU	e P	Z	17:29:12.6	82.2	199.5	1.4	53	5.5		
WLF	e P	Z	17:29:14.2	82.4	196.9	1.5	48	5.4		
WET	e P	Z	17:29:18.4	83.4	202.5	1.1	29	5.4		
GRA2	e P	Z	17:29:20.0	83.5	201.2					
GRFO	e P	Z	17:29:19.5	83.5	201.1	1.1	37	5.5		
MANZ	e P	Z	17:29:21.9	84.0	201.8	2.1	48	5.4		
UBBA	e P	Z	17:29:23.5	84.3	200.1	1.6	24	5.2		
WERN	e P	Z	17:29:23.6	84.4	202.1	1.1	15	5.2		
GUNZ	e P	Z	17:29:24.0	84.4	202.0	1.4	36	5.4		
WERD	e P	Z	17:29:24.1	84.5	202.0	1.1	20	5.2		
TANN	e P	Z	17:29:24.4	84.5	202.1	1.2	22	5.3		
MOX	e P	Z	17:29:24.4	84.5	201.4	1.2	13	5.1		
FBE	e P	Z	17:29:27.9	85.2	202.8	1.4	29	5.3		

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BRG	e P	Z	17:29:28.2	85.3	203.3						
CLL	e P	Z	17:29:29.2	85.5	202.5	1.1	20	5.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20	00:50:20.3	4.300S	101.200E	35.0	5.2			NEIC
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 01:03:24.0	91.6	94.7	1.3	18	5.2		
	e pP	Z 01:03:31.8							
BRG	e P	Z 01:03:23.7	91.6	94.8	1.3	13	5.1		
	e pP	Z 01:03:32.4							
WET	e P	Z 01:03:26.2	92.2	94.1	1.4	14	5.1		
	e pP	Z 01:03:34.2			1.4	14			
WERD	e P	Z 01:03:28.3	92.6	93.6	1.3	9	5.0		
	e pP	Z 01:03:36.9			1.3	9			
GRA1	e P	Z 01:03:31.4	93.3	92.8	2.0	43	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20	02:24: 5.9	58.600S	149.100E	10.0				GSRC
West of Macquarie Island								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e PKPbc	Z 02:44:01.0	152.3	129.4					
GEC2	e PKPbc	Z 02:44:02.1	152.5	127.7					
GRA1	e PKPbc	Z 02:44:07.0	154.3	126.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20	03:31:18.9	19.559N	122.195E	33.0N	5.1	4.7		SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FBE	e P	Z 03:43:53.6	86.1	63.4	0.8	8	4.9		
GRA1	e P	Z 03:44:05.4	87.9	61.7	1.7	29	5.3		
	e L	Z 04:28:32.5			21.1	280		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20	08:31:13.9	2.070S	100.490E	33.0G	6.8	6.4		SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	08:44:07.7	89.4	94.0	1.6	951	6.8
	e S	T	08:54:56.4					
GEC2	e P	Z	08:44:07.8	89.4	93.8	1.6	1201	6.9
	e S	T	08:54:55.6					
RUE	e P	Z	08:44:08.6	89.6	93.9	1.6	2416	7.2
	e S	T	08:54:55.8					
FBE	e P	Z	08:44:09.5	89.8	93.5	1.6	1100	6.8
RJOB	e P	Z	08:44:09.4	90.0	93.1	1.8	537	6.5
	e S	T	08:54:58.9					
WET	e P	Z	08:44:10.3	90.0	93.2	1.7	894	6.7
	e S	T	08:55:02.0					
RGN	e P	Z	08:44:10.8	90.0	93.5	1.6	1839	7.2
	e S	T	08:55:01.2					
CLL	e P	Z	08:44:10.2	90.0	93.3	1.7	696	6.7
	e S	T	08:55:00.8					
TANN	e P	Z	08:44:11.9	90.3	92.8	1.6	543	6.6
	e S	T	08:55:05.6					
WERN	e P	Z	08:44:12.3	90.4	92.8	1.5	359	6.5
GUNZ	e P	Z	08:44:12.4	90.4	92.7	1.6	676	6.7
WERD	e P	Z	08:44:12.3	90.4	92.7	1.7	592	6.7
MANZ	e P	Z	08:44:13.3	90.5	92.6	1.8	1382	7.0
	e S	T	08:55:07.8					
MOX	e P	Z	08:44:14.5	90.9	92.2	1.7	763	6.8
	e S	T	08:55:09.9					
FUR	e P	Z	08:44:14.4	91.0	92.0	1.8	763	6.7
	e S	T	08:55:08.9					
GRA1	e P	Z	08:44:15.8	91.1	91.9	1.8	1328	7.0
	e S	T	08:55:12.4					
	e L	Z	09:33:53.6			20.2	14823	6.4
BSEG	e P	Z	08:44:18.7	91.8	91.1	1.7	691	6.7
	e S	T	08:55:17.2					
NRDL	e P	Z	08:44:19.3	91.9	91.0	1.8	1123	6.9
	e S	T	08:55:17.2					
UBBA	e P	Z	08:44:19.0	91.9	90.9	1.8	656	6.7
	e S	T	08:55:18.3					
STU	e P	Z	08:44:21.2	92.4	90.4	1.7	645	6.8
	e S	T	08:55:22.6					
TNS	e P	Z	08:44:23.9	92.9	89.8	1.7	609	6.8
	e S	T	08:55:28.0					
BFO	e P	Z	08:44:23.5	93.0	89.8	1.7	309	6.5
	e S	T	08:55:27.5					
HLG	e S	T	08:55:29.7	93.2	89.1			
IBBN	e S	T	08:55:30.6	93.3	89.1			
BUG	e P	Z	08:44:26.9	93.6	88.8	1.8	465	6.5
	e S	T	08:55:34.1					
WLF	e P	Z	08:44:30.7	94.4	88.0	1.8	426	6.6
	e S	T	08:55:41.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:00:06.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 22:47:32.7							
	e Sn	N 22:48:37.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/20	22:54:26.0	35.160N	142.250E	24.6	5.2	4.9		SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 23:06:42.9	81.6	40.3	1.1	45	5.5		
BSEG	e P	Z 23:06:43.3	81.7	37.9	1.1	28	5.3		
BRG	e P	Z 23:06:48.1	82.7	40.3	1.5	27	5.3		
CLL	e P	Z 23:06:48.0	82.8	39.7	1.0	28	5.4		
FBE	e P	Z 23:06:49.3	82.9	39.9	1.1	31	5.4		
NRDL	e P	Z 23:06:49.4	82.9	37.6	1.6	24	5.2		
TANN	e P	Z 23:06:53.2	83.7	39.2	1.2	9	4.9		
WERD	e P	Z 23:06:53.3	83.7	39.1	1.3	13	5.0		
GUNZ	e P	Z 23:06:53.7	83.8	39.1	1.2	10	5.0		
WERN	e P	Z 23:06:54.0	83.8	39.1	1.1	21	5.3		
MOX	e P	Z 23:06:54.0	83.8	38.6	1.1	12	5.0		
IBBN	e P	Z 23:06:54.5	84.0	35.9	1.2	40	5.5		
MANZ	e P	Z 23:06:55.6	84.1	38.9	1.4	19	5.1		
UBBA	e P	Z 23:06:56.3	84.3	37.5	1.4	16	5.1		
GEC2	e P	Z 23:06:56.4	84.4	40.0	1.0	9	4.9		
WET	e P	Z 23:06:57.5	84.5	39.4	1.2	12	5.0		
GRA1	e P	Z 23:06:59.0	84.7	38.3	1.2	46	5.6		
	e pP	Z 23:07:06.2							
	e L	Z 23:48:57.5			19.2	458		4.9	
BUG	e P	Z 23:06:59.0	84.8	35.5	1.2	16	5.1		
TNS	e P	Z 23:07:02.0	85.4	36.3	1.3	23	5.2		
RJOB	e P	Z 23:07:03.0	85.6	39.3	1.0	11	4.9		
FUR	e P	Z 23:07:04.6	85.9	38.2	1.2	27	5.2		
STU	e P	Z 23:07:06.2	86.3	36.8	1.3	35	5.3		
WLF	e P	Z 23:07:08.9	86.7	34.6	1.5	25	5.1		
BFO	e P	Z 23:07:09.2	87.0	36.1	1.3	29	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/21	09:49:27.6	37.600N	44.100E	5.0G	4.3			KAN

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:55:07.1	26.4	104.7	1.3	10	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/21	10:21:17.9	37.300N	44.300E	33.0N	4.7			KAN

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:26:58.4	26.7	105.0	1.7	30	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/22	06:35:44.7	43.068N	29.575W	33.0N	4.8	4.4		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z 06:41:16.1	26.4	264.6	1.4	40	5.0		
BFO	e P	Z 06:41:21.5	26.7	273.0	2.1	33	4.7		
STU	e P	Z 06:41:26.0	27.3	272.7	0.9	15	4.7		
UBBA	e P	Z 06:41:30.2	27.7	269.4	1.9	18	4.6		
NRDL	e P	Z 06:41:31.1	27.9	266.3	1.6	26	4.8		
BSEG	e P	Z 06:41:32.8	28.1	263.8	1.1	22	4.9		
GRA1	e P	Z 06:41:37.7	28.5	272.4	1.5	31	4.9		
	e L	Z 06:52:39.6			19.2	886		4.4	
FUR	e P	Z 06:41:39.3	28.7	275.2	1.0	19	4.9		
MOX	e P	Z 06:41:39.5	28.8	270.9					
MANZ	e P	Z 06:41:42.8	29.1	272.5	1.3	30	5.0		
GUNZ	e P	Z 06:41:43.5	29.2	272.0	1.1	12	4.6		
WERN	e P	Z 06:41:44.0	29.3	272.2	1.6	16	4.6		
CLL	e P	Z 06:41:46.8	29.6	270.8	1.0	9	4.6		
WET	e P	Z 06:41:47.3	29.6	274.5	1.4	21	4.8		
FBE	e P	Z 06:41:49.0	29.9	271.8	1.5	25	4.8		
RUE	e P	Z 06:41:50.6	30.1	269.4	1.2	30	5.0		
GEC2	e P	Z 06:41:52.5	30.2	275.6	1.3	17	4.7		
BRG	e P	Z 06:41:52.3	30.2	272.3	1.8	43	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/09/22 08:00:14.0 24.080N 124.750E 33.0G 5.7 5.0 SZGRF  
Southwestern Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 08:12:37.4	82.8	59.2	1.2	170	6.1		
BRG	e P	Z 08:12:40.9	83.6	59.2	0.8	23	5.5		
BSEG	e P	Z 08:12:41.5	83.8	56.7	1.4	128	6.0		
CLL	e P	Z 08:12:41.2	83.9	58.5	0.7	37	5.7		
FBE	e P	Z 08:12:41.7	83.9	58.8	1.1	40	5.6		
TANN	e P	Z 08:12:45.6	84.6	58.0	1.2	34	5.5		
WERD	e P	Z 08:12:45.9	84.7	57.9	0.9	33	5.6		
GUNZ	e P	Z 08:12:46.2	84.7	57.9	0.9	61	5.8		
NRDL	e P	Z 08:12:46.3	84.7	56.4	1.4	112	5.9		
WERN	e P	Z 08:12:46.3	84.7	58.0	0.9	51	5.8		
GEC2	e P	Z 08:12:46.2	84.8	58.8	1.2	44	5.6		
MOX	e P	Z 08:12:47.2	84.9	57.4	1.1	39	5.5		
MANZ	e P	Z 08:12:47.9	85.0	57.8	1.0	42	5.5		
WET	e P	Z 08:12:48.1	85.1	58.3	1.6	46	5.4		
GRA1	e P	Z 08:12:51.2	85.7	57.1	1.2	118	5.9		
	e L	Z 09:08:26.5			21.9	670		5.0	
GRFO	e P	Z 08:12:51.3	85.7	57.1	1.2	108	5.9		
UBBA	e P	Z 08:12:50.9	85.7	56.2	1.3	62	5.6		
RJOB	e P	Z 08:12:51.9	85.8	58.1	0.9	35	5.5		
IBBN	e P	Z 08:12:52.4	86.0	54.6	1.0	172	6.1		
FUR	e P	Z 08:12:55.3	86.5	57.0	1.0	125	6.0		
BUG	e P	Z 08:12:57.2	86.8	54.2	1.2	114	5.9		
TNS	e P	Z 08:12:56.7	86.9	55.1	1.0	38	5.5		
STU	e P	Z 08:12:58.5	87.3	55.5	0.8	40	5.8		
BFO	e P	Z 08:13:01.9	88.0	54.9	1.6	42	5.4		
WLF	e P	Z 08:13:04.4	88.4	53.3	1.2	54	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/22 11:02:28.9 5.429S 101.114E 33.0N 5.4 SZGRF  
Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:15:44.1	94.1	93.6	1.1	21	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/09/22 11:44:48.5 6.610N 76.020W 33.0N 5.2 SZGRF  
Northern Colombia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 11:56:55.0	79.9	268.3	1.1	47	5.3		
BUG	e P	Z 11:56:58.6	80.7	268.9	1.0	20	5.0		



IBBN	e P	Z	11:57:00.3	81.0	269.1	0.8	18	5.2
BFO	e P	Z	11:57:01.6	81.3	270.2	1.0	9	4.8
TNS	e P	Z	11:57:02.7	81.4	270.0	1.4	24	5.0
STU	e P	Z	11:57:04.9	81.9	270.8	0.8	25	5.4
NRDL	e P	Z	11:57:08.0	82.4	271.0	1.0	16	5.1
BSEG	e P	Z	11:57:08.3	82.5	271.0	0.8	20	5.3
GRA1	e P	Z	11:57:12.0	83.2	272.2	1.0	17	5.2
MOX	e P	Z	11:57:13.0	83.4	272.4	1.5	15	5.0
WERD	e P	Z	11:57:15.3	83.8	272.9	1.4	23	5.2
GUNZ	e P	Z	11:57:15.6	83.9	273.0	1.5	25	5.2
WERN	e P	Z	11:57:15.9	83.9	273.0	1.3	23	5.2
TANN	e P	Z	11:57:16.0	83.9	273.1	1.3	30	5.4
CLL	e P	Z	11:57:17.2	84.2	273.4	1.2	23	5.3
WET	e P	Z	11:57:17.8	84.3	273.5	1.2	39	5.5
RJOB	e P	Z	11:57:17.7	84.3	273.6	1.0	16	5.2
FBE	e P	Z	11:57:18.6	84.5	273.7	0.9	19	5.3
RUE	e P	Z	11:57:19.1	84.6	273.9	0.6	26	5.6
GEC2	e P	Z	11:57:20.3	84.8	274.2	1.1	27	5.4
BRG	e P	Z	11:57:20.4	84.9	274.2	1.0	19	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 13:54:40.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/22	20:05: 5.9	36.079N	26.602E	10.0G	4.2			SZGRF
Dodecanese Islands, Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:08:49.5	15.9	138.7					
WET	e P	Z 20:08:54.3	16.5	137.4	1.3	24	4.2		
BRG	e P	Z 20:09:07.0	17.4	143.6	1.2	12	3.9		
TANN	e P	Z 20:09:08.8	17.6	139.2	1.1	11	3.9		
GRA1	e P	Z 20:09:08.9	17.6	134.9	1.4	60	4.5		
CLL	e P	Z 20:09:14.6	18.1	142.2	1.5	46	4.4		
TNS	e P	Z 20:09:29.5	19.3	130.3	1.0	25	4.4		
BUG	e P	Z 20:09:45.8	20.6	130.6	1.2	25	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/22	21:03:29.0	39.800N	15.600E	288.0G				INGV
Central Italy								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z	21:05:35.8	8.9	158.1					
GEC2	e P	Z	21:05:38.5	9.1	170.8					
WET	e P	Z	21:05:42.8	9.5	167.3					
BFO	e P	Z	21:05:48.7	10.0	145.9					
GRA1	e P	Z	21:05:52.6	10.4	161.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/23	00:54:26.1	34.622N	26.703E	10.0G	4.9	4.5		SZGRF

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	00:58:21.4	16.7	136.6	1.2	46	4.5		
GEC2	e P	Z	00:58:25.2	17.2	141.1	1.0	111	5.0		
WET	e P	Z	00:58:32.9	17.7	139.8	1.3	114	4.9		
	e S	T	01:01:52.9							
FUR	e P	Z	00:58:33.4	17.7	134.1	0.8	62	4.9		
BRG	e P	Z	00:58:42.7	18.7	145.5	1.2	81	4.8		
MANZ	e P	Z	00:58:43.4	18.7	139.7	1.2	83	4.8		
GRA1	e P	Z	00:58:45.4	18.9	137.2	1.1	203	5.3		
	e S	T	01:02:14.1							
	e L	Z	01:06:30.2			20.8	2399		4.5	
TANN	e P	Z	00:58:45.6	18.9	141.3	1.4	44	4.5		
BFO	e P	Z	00:58:48.6	19.3	128.4	1.3	50	4.6		
CLL	e P	Z	00:58:51.8	19.4	144.1	1.0	88	5.1		
MOX	e P	Z	00:58:51.4	19.4	139.9	1.3	88	4.9		
	e S	T	01:02:26.7							
RUE	e P	Z	00:58:57.7	20.1	147.6	1.2	112	5.0		
UBBA	e P	Z	00:58:59.4	20.2	136.8	1.6	90	4.8		
TNS	e P	Z	00:59:02.8	20.5	132.6	1.0	85	5.1		
BUG	e P	Z	00:59:17.6	21.9	132.7	1.4	144	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/23	14:13:44.9	2.380S	99.660E	33.0N	5.4	5.1		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:26:37.1	89.1	94.6	1.3	43	5.6		
BRG	e P	Z	14:26:37.1	89.1	94.8	1.0	31	5.6		
RJOB	e P	Z	14:26:39.3	89.7	93.9	1.0	26	5.5		
WET	e P	Z	14:26:39.6	89.7	94.0	1.0	35	5.6		
CLL	e P	Z	14:26:39.5	89.8	94.1	1.1	31	5.6		
TANN	e P	Z	14:26:41.6	90.1	93.7	1.1	18	5.2		
MANZ	e P	Z	14:26:42.9	90.3	93.4	1.0	44	5.7		

MOX	e P	Z	14:26:44.0	90.6	93.0	1.3	28	5.3
FUR	e P	Z	14:26:44.4	90.7	92.8	0.8	33	5.6
GRA1	e P	Z	14:26:45.1	90.8	92.7	1.0	45	5.6
	e S	N	14:37:39.5					
	e L	Z	15:16:44.3			18.7	680	5.1
CLZ	e P	Z	14:26:47.8	91.4	92.0	1.2	33	5.4
BSEG	e P	Z	14:26:48.5	91.5	91.9	1.0	11	5.0
NRDL	e P	Z	14:26:48.7	91.6	91.8	1.1	17	5.2
UBBA	e P	Z	14:26:48.6	91.6	91.8	1.0	6	4.8
STU	e P	Z	14:26:51.3	92.1	91.2	0.8	20	5.5
TNS	e P	Z	14:26:53.4	92.6	90.6	0.9	36	5.7
BFO	e P	Z	14:26:53.5	92.7	90.6	1.0	14	5.3
IBBN	e P	Z	14:26:55.4	93.0	90.0	0.9	13	5.2
WLF	e P	Z	14:27:00.6	94.1	88.9	1.0	13	5.3

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/23 22:24:10.0 2.080S 98.220E 28.5 5.1  
 Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:36:57.1	88.0	95.5	1.5	26	5.4		
BRG	e P	Z	22:36:57.9	88.0	95.8	1.1	10	5.1		
RJOB	e P	Z	22:36:59.4	88.5	94.8	1.3	12	5.1		
WET	e P	Z	22:37:00.2	88.5	94.9	1.2	14	5.1		
CLL	e P	Z	22:36:59.9	88.6	95.0	1.3	8	4.8		
MANZ	e P	Z	22:37:03.1	89.1	94.3	1.3	16	5.1		
MOX	e P	Z	22:37:04.5	89.5	93.9	1.6	15	5.0		
GRA1	e P	Z	22:37:05.5	89.6	93.6	1.5	25	5.2		
	e pP	Z	22:37:13.8							
CLZ	e P	Z	22:37:08.4	90.3	93.0	1.7	28	5.2		
NRDL	e P	Z	22:37:09.0	90.5	92.8	2.4	59	5.4		
TNS	e P	Z	22:37:13.6	91.5	91.5	1.2	13	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/23 22:28: 0.1 3.500S 96.500E 33.0N 4.9  
 Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:40:47.5	87.9	97.7	1.0	7	4.9		
BRG	e P	Z	22:40:47.7	88.0	98.0	0.9	6	4.9		
RJOB	e P	Z	22:40:48.8	88.4	97.0	1.0	7	4.9		
WET	e P	Z	22:40:49.6	88.5	97.1	0.9	6	5.0		
TANN	e P	Z	22:40:51.0	88.9	96.8	1.1	6	4.7		
MANZ	e P	Z	22:40:52.7	89.1	96.5	1.2	11	4.9		
GRA1	e P	Z	22:40:55.7	89.6	95.9	1.1	7	4.8		

TNS	e P	Z	22:41:03.6	91.4	93.7	0.9	8	5.0
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/23	23:23:56.9	6.570S	100.670E	33.7	4.9			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	23:37:06.3	93.0	96.6	0.9	5	4.9		
BRG	e P	Z	23:37:07.0	93.0	96.7	0.9	5	4.9		
RUE	e P	Z	23:37:07.7	93.3	96.5	0.4	15	5.8		
RJOB	e P	Z	23:37:08.3	93.4	96.0	0.9	6	5.0		
WET	e P	Z	23:37:08.8	93.5	96.0	1.0	6	4.9		
TANN	e P	Z	23:37:10.4	93.9	95.6	1.1	3	4.5		
WERN	e P	Z	23:37:11.5	94.0	95.5	1.6	6	4.7		
MANZ	e P	Z	23:37:11.8	94.1	95.3	1.0	5	4.8		
MOX	e P	Z	23:37:13.0	94.5	94.9	1.5	10	4.9		
GRA1	e P	Z	23:37:14.4	94.6	94.7	1.0	6	5.0		
	e pP	Z	23:37:24.3							
TNS	e P	Z	23:37:22.3	96.5	92.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/24	05:42:10.2	3.100S	101.300E	35.0	5.1			NEIC

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:55:10.6	90.7	94.0	1.5	19	5.2		
GEC2	e P	Z	05:55:10.2	90.8	93.8	0.9	7	5.0		
WET	e P	Z	05:55:13.3	91.3	93.2	1.4	14	5.1		
GUNZ	e P	Z	05:55:14.9	91.7	92.8	1.1	8	5.0		
MANZ	e P	Z	05:55:15.3	91.9	92.6	1.1	6	4.8		
MOX	e P	Z	05:55:17.8	92.2	92.2	2.3	39	5.3		
GRA1	e P	Z	05:55:18.2	92.4	91.9	0.5	11	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/24	05:46: 4.9	46.212N	153.379E	33.0N	4.5			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:58:04.0	78.6	25.7	0.8	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/09/24 08:15:28.7 3.580S 98.880E 24.4 5.6 5.4 SZGRF  
 Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 08:28:24.3	89.5	96.0	1.6	132	6.0		
	e S	T 08:39:13.9							
BRG	e P	Z 08:28:24.6	89.6	96.2	1.2	54	5.8		
	e S	T 08:39:10.1							
RUE	e P	Z 08:28:25.9	89.9	96.1	1.2	153	6.2		
RJOB	e P	Z 08:28:26.2	90.0	95.3	1.3	30	5.4		
WET	e P	Z 08:28:27.2	90.1	95.4	1.1	51	5.7		
	e S	T 08:39:21.6							
CLL	e P	Z 08:28:26.9	90.2	95.5	1.2	38	5.5		
	e S	T 08:39:21.3							
TANN	e P	Z 08:28:27.2	90.5	95.0	1.5	35	5.4		
	e S	T 08:39:24.9							
GUNZ	e P	Z 08:28:29.2	90.6	94.9	1.3	47	5.5		
WERD	e P	Z 08:28:28.4	90.6	94.9	1.2	29	5.4		
MANZ	e P	Z 08:28:30.4	90.7	94.8	1.3	71	5.7		
	e S	T 08:39:27.1							
MOX	e P	Z 08:28:31.1	91.0	94.4	1.3	37	5.5		
FUR	e P	Z 08:28:31.0	91.1	94.2	1.3	74	5.8		
	e S	T 08:39:29.7							
GRA1	e P	Z 08:28:32.7	91.2	94.1	1.2	59	5.7		
	e pP	Z 08:28:39.9							
	e S	T 08:39:31.2							
	e L	Z 09:18:18.3			19.2	1369		5.4	
CLZ	e P	Z 08:28:35.1	91.9	93.4	1.4	42	5.5		
BSEG	e P	Z 08:28:35.6	92.0	93.3	1.4	36	5.4		
	e S	T 08:39:39.2							
UBBA	e P	Z 08:28:35.7	92.1	93.1	1.6	34	5.4		
	e S	T 08:39:38.0							
NRDL	e P	Z 08:28:36.0	92.1	93.2	1.4	47	5.6		
STU	e S	T 08:39:37.8	92.5	92.6					
TNS	e P	Z 08:28:40.8	93.0	92.0	1.0	38	5.7		
	e S	T 08:39:44.4							
	e pS	T 08:39:50.9							
BFO	e P	Z 08:28:39.7	93.0	92.0	1.2	17	5.2		
	e S	T 08:39:42.8							
WLF	e P	Z 08:28:47.8	94.5	90.2	1.1	27	5.6		
	e S	T 08:39:51.2							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/24 09:50:48.9 5.720S 101.700E 33.0N 5.7 4.7  
 Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GEC2	e P	Z	10:03:57.6	93.0	95.3	1.6	74	5.9			
BRG	e P	Z	10:03:57.6	93.0	95.3	1.4	51	5.8			
RUE	e P	Z	10:03:58.7	93.3	95.1	1.0	118	6.3			
FBE	e P	Z	10:03:59.5	93.4	94.9	1.2	53	5.8			
RJOB	e P	Z	10:03:59.4	93.5	94.7						
WET	e P	Z	10:04:00.4	93.6	94.6	1.1	31	5.6			
CLL	e P	Z	10:04:00.5	93.6	94.6	1.4	47	5.6			
TANN	e P	Z	10:04:01.8	93.9	94.2	1.2	18	5.3			
GUNZ	e P	Z	10:04:01.9	94.0	94.1	1.2	26	5.4			
WERD	e P	Z	10:04:02.0	94.0	94.1	1.1	24	5.4			
MANZ	e P	Z	10:04:02.9	94.1	94.0	1.2	52	5.7			
MOX	e P	Z	10:04:04.2	94.5	93.6	1.5	46	5.6			
GRA1	e P	Z	10:04:05.8	94.7	93.3	1.0	51	5.9			
	e L	Z	10:36:53.3			20.9	269		4.7		
CLZ	e P	Z	10:04:08.2	95.3	92.5	1.4	36	5.6			
BSEG	e P	Z	10:04:09.1	95.4	92.3	1.2	21	5.5			
NRDL	e P	Z	10:04:08.5	95.5	92.2	1.7	64	5.8			
STU	e P	Z	10:04:11.4	95.9	91.9	0.9	16	5.5			
TNS	e P	Z	10:04:13.6	96.5	91.2	1.0	28	5.7			
BFO	e P	Z	10:04:13.5	96.5	91.3	1.0	14	5.4			
WLF	e P	Z	10:04:20.4	97.9	89.5	1.4	26	5.8			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/24 11:55: 8.6 11.800S 166.100E 54.0 NEIC  
 Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SKPab	Z 12:18:01.4	136.8	37.4					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/24 12:26:31.6 4.300S 101.600E 35.0 5.5 NEIC  
 Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:39:43.8	93.5	92.5	1.6	34	5.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/24 14:48:23.0 53.440N 177.660E 33.0N 5.0 SZGRF  
 Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 14:59:55.9	73.6	7.7	1.0	10	4.8		
IBBN	e P	Z 14:59:57.6	73.9	6.2	0.8	28	5.3		

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CLZ	e P	Z	14:59:58.7	74.2	7.8	0.8	23	5.3
BRG	e P	Z	15:00:01.6	74.8	10.0			
BUG	e P	Z	15:00:01.8	74.8	5.9	0.6	18	5.2
UBBA	e P	Z	15:00:05.5	75.2	7.6	1.7	24	5.1
MOX	e P	Z	15:00:05.2	75.3	8.5	1.1	13	5.0
MANZ	e P	Z	15:00:08.6	75.9	8.8	2.3	33	5.1
TNS	e P	Z	15:00:08.7	75.9	6.6	0.7	15	5.2
GRA1	e P	Z	15:00:10.9	76.2	8.3	1.2	25	5.2
WET	e P	Z	15:00:13.2	76.6	9.2	0.7	6	4.8
GEC2	e P	Z	15:00:13.7	76.8	9.7	0.7	6	4.8
RJOB	e P	Z	15:00:20.8	78.0	9.1	0.9	6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/24	17:35:25.6	5.900S	105.500E	15.0				NEIC
Sunda Strait, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 17:48:52.7	95.6	92.5					
GRA1	e P	Z 17:48:57.6	97.3	90.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/24	18:12:23.4	34.320N	24.046E	10.0G	4.8	4.0		SZGRF
Crete, Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z 18:16:00.4	15.8	143.8	0.5	42			
	e P	Z 18:16:09.7							
GEC2	e Pn	Z 18:16:08.5	16.4	148.4	0.6	72			
	e P	Z 18:16:15.5							
FUR	e P	Z 18:16:18.9	16.8	140.8	1.3	206	5.1		
WET	e P	Z 18:16:21.0	17.0	146.8	1.4	192	5.0		
MANZ	e P	Z 18:16:32.3	17.9	146.3	0.8	65	4.8		
GRA1	e P	Z 18:16:33.1	18.0	143.7	1.3	265	5.2		
	e L	Z 18:24:59.8			18.0	779		4.0	
WERN	e P	Z 18:16:33.6	18.1	147.5	0.8	41	4.6		
BRG	e P	Z 18:16:33.7	18.1	152.2	1.4	93	4.7		
STU	e P	Z 18:16:33.2	18.2	137.2	0.7	39	4.7		
TANN	e P	Z 18:16:35.0	18.2	147.9	0.8	36	4.5		
GUNZ	e P	Z 18:16:35.3	18.2	147.5	0.8	51	4.7		
BFO	e P	Z 18:16:34.2	18.2	134.4	0.6	14	4.3		
WERD	e P	Z 18:16:35.9	18.3	147.6	0.8	25	4.4		
FBE	e P	Z 18:16:36.3	18.3	150.8	0.8	102	5.0		
MOX	e P	Z 18:16:39.8	18.7	146.3	0.6	33	4.7		
CLL	e P	Z 18:16:39.7	18.8	150.6	1.0	64	4.8		
UBBA	e P	Z 18:16:49.1	19.4	142.9	1.1	32	4.4		

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TNS	e P	Z	18:16:50.8	19.6	138.5	0.7	47	4.8
RUE	e P	Z	18:16:49.7	19.6	153.9	1.2	131	5.0
CLZ	e P	Z	18:16:55.4	20.1	145.4	1.0	36	4.6
WLF	e P	Z	18:16:58.9	20.2	132.7	1.4	166	5.1
NRDL	e P	Z	18:17:03.0	20.7	145.8	0.9	31	4.6
BUG	e P	Z	18:17:03.3	21.0	138.2	0.8	25	4.6
BSEG	e P	Z	18:17:13.9	21.9	148.2	0.8	185	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/24	18:54:35.5	21.820S	177.640W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	19:14:15.4	147.3	13.8					
NRDL	e PKPbc	Z	19:14:19.2	148.8	14.0					
CLZ	e PKPbc	Z	19:14:21.3	149.3	14.7					
	e PKPab	Z	19:14:25.7							
CLL	e PKPbc	Z	19:14:20.9	149.4	19.7					
	e PKPab	Z	19:14:25.4							
BRG	e PKPbc	Z	19:14:21.7	149.6	21.6					
	e PKPab	Z	19:14:26.4							
MOX	e PKPbc	Z	19:14:23.0	150.3	17.5					
	e PKPab	Z	19:14:29.0							
TANN	e PKPbc	Z	19:14:23.5	150.3	19.2					
	e PKPab	Z	19:14:29.4							
UBBA	e PKPbc	Z	19:14:23.5	150.4	14.5					
	e PKPab	Z	19:14:30.0							
MANZ	e PKPbc	Z	19:14:24.4	150.8	18.8					
	e PKPab	Z	19:14:31.6							
TNS	e PKPbc	Z	19:14:25.8	151.2	11.8					
GRA1	e PKPbc	Z	19:14:25.8	151.3	17.3					
WET	e PKPbc	Z	19:14:26.4	151.4	20.8					
	e PKPab	Z	19:14:34.4							
GEC2	e PKPbc	Z	19:14:26.1	151.5	22.5					
	e PKPab	Z	19:14:34.9							
WLF	e PKPbc	Z	19:14:28.0	152.0	7.5					
	e PKPab	Z	19:14:37.0							
STU	e PKPbc	Z	19:14:29.1	152.5	13.8					
FUR	e PKPbc	Z	19:14:29.1	152.7	18.3					
	e PKPab	Z	19:14:40.0							
RJOB	e PKPbc	Z	19:14:28.9	152.8	21.6					
	e PKPab	Z	19:14:40.8							
BFO	e PKPbc	Z	19:14:29.7	153.1	12.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/09/24 22:41:24.8  
South of Fiji Islands

22.000S 177.580W 33.0N

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	23:01:05.4	147.5	13.7					
RUE	e PKPbc	Z	23:01:07.5	148.3	20.3					
NRDL	e PKPbc	Z	23:01:09.4	148.9	13.9					
IBBN	e PKPbc	Z	23:01:10.5	149.4	9.8					
CLZ	e PKPbc	Z	23:01:11.1	149.5	14.7					
CLL	e PKPbc	Z	23:01:10.8	149.6	19.6					
	e PKPab	Z	23:01:15.1							
BRG	e PKPbc	Z	23:01:11.2	149.8	21.6					
	e PKPab	Z	23:01:16.5							
FBE	e PKPbc	Z	23:01:11.8	149.8	20.5					
	e PKPab	Z	23:01:17.1							
BUG	e PKPbc	Z	23:01:12.5	150.3	9.1					
MOX	e PKPbc	Z	23:01:12.7	150.5	17.5					
TANN	e PKPbc	Z	23:01:13.0	150.5	19.2					
	e PKPab	Z	23:01:19.4							
WERD	e PKPbc	Z	23:01:13.3	150.5	18.9					
	e PKPab	Z	23:01:19.8							
GUNZ	e PKPbc	Z	23:01:13.6	150.6	19.0					
	e PKPab	Z	23:01:20.2							
WERN	e PKPbc	Z	23:01:13.6	150.7	19.1					
	e PKPab	Z	23:01:20.5							
MANZ	e PKPbc	Z	23:01:14.5	151.0	18.8					
	e PKPab	Z	23:01:22.1							
TNS	e PKPbc	Z	23:01:15.4	151.4	11.7					
	e PKPab	Z	23:01:23.4							
GRA1	e PKPbc	Z	23:01:15.2	151.4	17.3					
	e PKPab	Z	23:01:23.8							
WET	e PKPbc	Z	23:01:15.7	151.6	20.7					
	e PKPab	Z	23:01:24.7							
GEC2	e PKPbc	Z	23:01:16.0	151.7	22.5					
WLF	e PKPbc	Z	23:01:17.8	152.2	7.4					
	e PKPab	Z	23:01:26.9							
STU	e PKPbc	Z	23:01:18.3	152.7	13.8					
FUR	e PKPbc	Z	23:01:18.6	152.9	18.3					
	e PKPab	Z	23:01:30.0							
RJOB	e PKPbc	Z	23:01:18.7	152.9	21.5					
	e PKPab	Z	23:01:30.7							
BFO	e PKPbc	Z	23:01:19.6	153.2	12.2					
	e PKPab	Z	23:01:31.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/25	05:15:56.6	31.300S	178.730W	430.6				NEIC
Kermadec Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	05:35:34.9	156.5	19.7					
NRDL	e PKPab	Z	05:35:40.9	157.8	20.4					
CLL	e PKPab	Z	05:35:42.4	158.2	27.9					
BRG	e PKPab	Z	05:35:42.9	158.3	30.5					
CLZ	e PKPab	Z	05:35:43.7	158.4	21.5					
IBBN	e PKPab	Z	05:35:44.1	158.5	15.3					
TANN	e PKPab	Z	05:35:46.9	159.1	27.8					
MOX	e PKPab	Z	05:35:46.4	159.2	25.6					
BUG	e PKPab	Z	05:35:47.1	159.4	14.7					
UBBA	e PKPab	Z	05:35:47.5	159.4	21.7					
MANZ	e PKPab	Z	05:35:48.6	159.6	27.5					
GEC2	e PKPab	Z	05:35:50.7	160.1	32.7					
WET	e PKPab	Z	05:35:51.1	160.1	30.4					
GRA1	e PKPab	Z	05:35:09.4	160.2	25.8					
	e PKPab	Z	05:35:51.5							
	e pPKPab	Z	05:37:30.6							
	e PP	Z	05:39:28.5							
TNS	e PKPab	Z	05:35:52.3	160.3	18.5					
WLF	e PKPab	Z	05:35:55.6	161.3	13.1					
FUR	e PKPab	Z	05:35:57.2	161.5	27.9					
STU	e PKPab	Z	05:35:57.8	161.5	21.8					
BFO	e PKPab	Z	05:35:59.8	162.1	20.0					

Date        Origin Time        Lat        Long        Depth        mb        Ms        ML        Source  
2007/09/25    08:26:47.9        5.620S    102.410E    53.1        5.8                             SZGRF  
Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	08:39:57.0	93.4	94.7	1.7	123	6.1		
	e pP	Z	08:40:12.7							
BRG	e P	Z	08:39:57.1	93.4	94.7	1.8	141	6.1		
RUE	e P	Z	08:39:58.2	93.6	94.5	1.2	221	6.5		
FBE	e P	Z	08:39:58.8	93.8	94.3	1.7	124	6.1		
RJOB	e P	Z	08:39:59.0	93.9	94.1	1.0	23	5.6		
WET	e P	Z	08:39:59.7	93.9	94.0	1.8	114	5.9		
	e pP	Z	08:40:15.2							
	e sP	Z	08:40:20.8							
CLL	e P	Z	08:39:59.5	94.0	94.0	1.2	39	5.6		
TANN	e P	Z	08:40:01.2	94.3	93.6	1.8	62	5.6		
WERN	e P	Z	08:40:01.7	94.3	93.6	1.4	36	5.5		
GUNZ	e P	Z	08:40:01.5	94.4	93.5	1.2	38	5.6		
WERD	e P	Z	08:40:01.6	94.4	93.5	1.7	54	5.6		
	e pP	Z	08:40:17.1							
MANZ	e P	Z	08:40:02.5	94.5	93.4	1.5	87	5.9		
	e pP	Z	08:40:17.9							

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MOX	e P	Z	08:40:03.7	94.8	93.0	1.5	47	5.6
FUR	e P	Z	08:40:04.0	94.9	92.9	0.8	32	5.8
GRA1	e P	Z	08:40:05.0	95.1	92.7	1.3	61	5.9
	e pP	Z	08:40:20.4					
	e S	N	08:51:15.2					
CLZ	e P	Z	08:40:07.5	95.7	91.9	1.6	69	5.8
	e pP	Z	08:40:23.0					
BSEG	e P	Z	08:40:07.8	95.8	91.6	1.1	42	5.8
	e pP	Z	08:40:23.4					
NRDL	e P	Z	08:40:08.3	95.9	91.6	1.5	57	5.8
STU	e P	Z	08:40:10.6	96.3	91.3	0.9	27	5.8
TNS	e P	Z	08:40:13.2	96.8	90.6	1.1	37	5.8
BFO	e P	Z	08:40:12.9	96.9	90.7	1.0	17	5.5
	e pP	Z	08:40:28.3					
	e sP	Z	08:40:33.7					
BUG	e P	Z	08:40:16.1	97.6	89.5	1.2	23	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/25	15:01:34.2	47.530N	150.090E	33.0N	4.9			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 15:13:11.8	74.5	28.5	0.6	16	5.2		
BRG	e P	Z 15:13:12.4	74.6	29.0	0.6	6	4.8		
CLZ	e P	Z 15:13:14.3	74.8	26.9	0.9	8	4.8		
IBBN	e P	Z 15:13:15.0	75.1	25.3	0.9	17	5.1		
MOX	e P	Z 15:13:17.9	75.5	27.5	1.2	9	4.8		
WET	e P	Z 15:13:23.4	76.5	28.1	0.9	9	4.9		
GEC2	e P	Z 15:13:23.0	76.5	28.6	0.8	4	4.6		
GRA1	e P	Z 15:13:23.6	76.5	27.2	0.8	12	5.1		
STU	e P	Z 15:13:30.9	77.9	25.8	1.0	16	5.1		
BFO	e P	Z 15:13:34.8	78.6	25.2	1.2	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/25	21:54:58.4	7.900N	126.600E	83.0				NEIC
Mindanao, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z 22:08:23.9	97.7	67.3					
FBE	e Pdiff	Z 22:08:27.4	98.0	66.8					
CLL	e Pdiff	Z 22:08:26.8	98.1	66.5					
GEC2	e Pdiff	Z 22:08:28.1	98.6	67.4					
TANN	e Pdiff	Z 22:08:29.0	98.8	66.1					
WERD	e Pdiff	Z 22:08:30.5	98.8	66.0					
GUNZ	e Pdiff	Z 22:08:30.0	98.9	66.0					

GRA1 e Pdiff Z 22:08:34.4 99.8 65.2

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/26 04:43:18.4 4.680S 78.540W 104.0 6.0  
 Peru-Ecuador border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 04:56:06.5	90.1	262.9	1.1	153	6.3		
	e pP	Z 04:56:34.0							
BUG	e P	Z 04:56:10.6	91.1	263.8	1.9	350	6.3		
BFO	e P	Z 04:56:11.2	91.4	264.6	1.2	35	5.4		
	e pPP	Z 05:00:13.7							
	e sPP	Z 05:00:25.4							
IBBN	e P	Z 04:56:12.4	91.4	264.2	1.5	166	6.0		
TNS	e P	Z 04:56:13.4	91.7	264.7	1.2	94	5.9		
	e pP	Z 04:56:40.9							
STU	e P	Z 04:56:15.1	92.0	265.2	1.9	222	6.1		
UBBA	e P	Z 04:56:17.8	92.7	265.9	1.8	86	5.8		
NRDL	e P	Z 04:56:19.5	92.9	266.1	1.9	205	6.1		
	e pP	Z 04:56:46.6							
	e sPP	Z 05:00:36.1							
CLZ	e P	Z 04:56:20.1	93.0	266.3	1.3	121	6.1		
BSEG	e P	Z 04:56:20.1	93.1	266.3	1.6	195	6.2		
FUR	e P	Z 04:56:21.6	93.4	266.7	1.1	82	6.0		
GRA1	e P	Z 04:56:21.7	93.4	266.8	1.6	106	5.9		
	e pP	Z 04:56:48.3							
	e sP	Z 04:57:00.5							
	e S	T 05:07:24.0							
MOX	e P	Z 04:56:23.0	93.7	267.1	1.7	123	6.0		
MANZ	e P	Z 04:56:24.6	94.0	267.5	1.5	93	5.9		
WERD	e P	Z 04:56:25.0	94.1	267.7	1.6	131	6.0		
	e pP	Z 04:56:52.6							
GUNZ	e P	Z 04:56:25.4	94.2	267.7	1.6	137	6.0		
WERN	e P	Z 04:56:25.5	94.2	267.7	1.5	131	6.0		
TANN	e P	Z 04:56:25.9	94.2	267.8	1.5	137	6.0		
RJOB	e pP	Z 04:56:53.3	94.4	267.8					
WET	e P	Z 04:56:26.8	94.5	268.0	1.8	145	6.0		
	e PP	Z 05:00:12.9							
	e pPP	Z 05:00:37.2							
	e sPP	Z 05:00:48.1							
CLL	e P	Z 04:56:27.3	94.6	268.3	1.6	110	6.0		
	e PP	Z 05:00:13.9							
	e pPP	Z 05:00:37.9							
FBE	e pP	Z 04:56:55.6	94.8	268.5					
	e sPP	Z 05:00:51.4							
RGN	e P	Z 04:56:28.7	94.9	268.8	1.8	553	6.7		
GEC2	e P	Z 04:56:28.7	95.0	268.6	1.2	27	5.6		

	e PP	Z	05:00:19.6						
	e pPP	Z	05:00:41.5						
	e sPP	Z	05:00:52.6						
RUE	e P	Z	04:56:29.7	95.1	269.0	2.1	323	6.4	
BRG	e P	Z	04:56:30.1	95.2	269.0	1.7	123	6.0	
	e pP	Z	04:56:57.2						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/26 12:36:21.4 5.610S 154.430E 10.0 6.2  
 Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PP	Z	12:57:07.4	123.6	44.5					
BRG	e PKPdf	Z	12:55:18.4	124.1	49.9					
	e PP	Z	12:57:08.3							
CLL	e PKPdf	Z	12:55:19.6	124.2	48.6					
	e PP	Z	12:57:08.4							
NRDL	e PKPdf	Z	12:55:22.3	124.7	44.9					
	e PP	Z	12:57:09.7							
CLZ	e PKPdf	Z	12:55:21.7	125.1	45.5					
TANN	e PKPdf	Z	12:55:21.7	125.1	48.5					
	e PP	Z	12:57:11.4							
MOX	e PKPdf	Z	12:55:24.1	125.3	47.5					
	e PP	Z	12:57:13.0							
GEC2	e PKPdf	Z	12:55:22.0	125.5	50.7					
	e PP	Z	12:57:14.2							
MANZ	e PKPdf	Z	12:55:24.7	125.5	48.4					
	e PP	Z	12:57:14.0							
WET	e PKPdf	Z	12:55:24.1	125.7	49.7					
	e PP	Z	12:57:16.4							
IBBN	e PP	Z	12:57:16.2	125.9	42.4					
UBBA	e PP	Z	12:57:17.8	126.0	45.7					
GRA1	e PKPdf	Z	12:55:23.8	126.2	47.6					
	e PP	Z	12:57:18.3							
	e SP	R	13:07:16.7							
	e SS	T	13:14:22.9							
	e L	Z	13:53:17.8			22.0	5463		6.2	
BUG	e PP	Z	12:57:21.8	126.7	42.3					
TNS	e PKPdf	Z	12:55:25.4	127.1	44.3					
	e PP	Z	12:57:24.8							
FUR	e PP	Z	12:57:24.7	127.2	48.5					
STU	e PP	Z	12:57:26.9	127.8	45.9					
BFO	e PKPdf	Z	12:55:28.1	128.5	45.2					
	e PP	Z	12:57:33.0							
WLF	e PKPdf	Z	12:55:30.9	128.5	42.0					
	e PP	Z	12:57:32.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/26	15:38:23.1	47.134N	11.502E	7.2			2.7	SZGRF

Austria

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	15:38:43.0	1.1	97.3					2.6
	e Sn	N	15:38:59.1							
KBA	e Pn	Z	15:38:46.0	1.3	273.2					2.1
	e Sn	N	15:39:03.4							
MOA	e Pn	Z	15:38:57.5	2.0	250.1					2.9
	e Sn	E	15:39:20.4							
GEC2	e Pn	Z	15:38:59.3	2.3	221.5					2.7
	e Sn	E	15:39:23.6							
GRA1	e Sn	E	15:39:36.0	2.6	175.7					3.0
MANZ	e Pn	Z	15:39:11.6	2.9	188.2					2.6
TANN	e Pn	Z	15:39:20.2	3.3	191.3					2.8
WERD	e Pn	Z	15:39:20.6	3.4	189.4					2.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/26	15:42:59.2	2.350S	99.950E	33.0N	5.8	5.8		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	15:55:52.5	89.3	94.4	1.9	191	6.1		
	e S	T	16:06:39.9							
BRG	e P	Z	15:55:52.4	89.3	94.6	1.6	96	5.9		
	e S	T	16:06:39.7							
RUE	e P	Z	15:55:53.9	89.5	94.5	1.4	202	6.3		
RJOB	e P	Z	15:55:54.4	89.8	93.7	1.4	38	5.5		
WET	e P	Z	15:55:55.0	89.9	93.8	1.4	64	5.8		
CLL	e P	Z	15:55:54.9	89.9	93.9	1.2	35	5.6		
	e S	T	16:06:44.3							
TANN	e P	Z	15:55:56.6	90.2	93.4	1.4	41	5.6		
	e S	T	16:06:48.4							
MANZ	e P	Z	15:55:58.0	90.4	93.2	1.6	94	5.9		
MOX	e P	Z	15:55:59.2	90.8	92.8	1.4	62	5.8		
	e S	T	16:06:53.4							
FUR	e P	Z	15:55:59.2	90.9	92.6					
GRA1	e P	Z	15:56:00.5	91.0	92.5	1.3	68	5.9		
	e S	T	16:06:56.2							
	e L	Z	16:43:21.9			18.1	3168		5.8	
CLZ	e P	Z	15:56:03.2	91.6	91.8	1.4	73	5.9		
BSEG	e P	Z	15:56:03.6	91.7	91.7	1.4	42	5.7		
	e S	T	16:07:02.4							
NRDL	e P	Z	15:56:04.3	91.8	91.6	1.6	82	5.8		

	e S	T	16:07:02.3							
UBBA	e P	Z	15:56:03.9	91.8	91.5	2.0	74	5.7		
STU	e P	Z	15:56:06.0	92.3	91.0	1.4	54	5.7		
	e S	T	16:07:08.5							
TNS	e P	Z	15:56:08.7	92.8	90.3	1.4	58	5.8		
	e S	T	16:07:12.3							
BFO	e P	Z	15:56:08.3	92.8	90.4	1.7	50	5.7		
BUG	e P	Z	15:56:11.9	93.5	89.4	1.5	64	5.8		
	e S	T	16:07:17.2							
WLF	e S	T	16:07:26.0	94.2	88.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/26	18:36:17.9	1.368S	98.178E	33.0N	5.0			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:49:10.1	89.1	93.2	1.2	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/26	18:39:32.3	7.087S	12.293W	33.0N	5.5			SZGRF

Ascension Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:49:38.5	60.4	207.1	1.9	95	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/26	19:47: 6.9	45.875N	16.044E	10.0G			3.2	SZGRF

Northwestern Balkan Peninsula

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z 19:47:31.9	1.4	165.2					2.6
KBA	e Pn	Z 19:47:44.3	2.2	121.9					2.8
	e Sn	E 19:48:09.0							
MOA	e Pn	Z 19:47:44.8	2.3	147.7					2.7
	e Sn	E 19:48:11.2							
WTTA	e Pn	Z 19:47:57.2	3.3	113.0					3.2
GEC2	e Pn	Z 19:47:58.7	3.4	151.0					3.1
WET	e Pn	Z 19:48:05.7	3.9	145.6					3.2
	e Sn	N 19:48:49.2							
DAVA	e Pn	Z 19:48:12.7	4.5	106.2					3.5
MANZ	e Pn	Z 19:48:18.7	4.9	145.8					
WERN	e Pn	Z 19:48:21.1	5.0	149.6					3.5
	e Sn	E 19:49:14.9							

GUNZ	e Pn	Z	19:48:22.4	5.1	149.7
TANN	e Pn	Z	19:48:23.0	5.1	150.9
	e Sn	N	19:49:18.4		
MOX	e Pn	Z	19:48:28.9	5.6	146.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/26	20:39:0.1	45.899N	15.870E	10.0G			3.2	SZGRF

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z	20:39:24.1	1.4	169.9					2.7
	e Sn	N	20:39:41.7							
KBA	e Pn	Z	20:39:34.0	2.1	123.2					2.8
	e Sn	Z	20:40:01.4							
MOA	e Pn	Z	20:39:36.7	2.2	150.1					2.7
	e Pn	N	20:40:05.2							
WTTA	e Pn	Z	20:39:49.8	3.2	113.6					3.2
GEC2	e Pn	Z	20:39:51.2	3.3	152.7					3.2
WET	e Pn	Z	20:39:57.6	3.8	147.0					3.3
MANZ	e Pn	Z	20:40:10.8	4.8	146.9					3.3
WERN	e Pn	Z	20:40:13.4	5.0	150.7					3.5
GUNZ	e Pn	Z	20:40:14.7	5.0	150.8					3.5
TANN	e Pn	Z	20:40:15.2	5.1	152.0					3.5
MOX	e Pn	Z	20:40:21.0	5.5	147.6					3.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27	19:57:39.2	23.470S	169.040E	21.0		6.2		SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:17:15.6	145.6	36.1					
	e PP	Z	20:20:36.6							
BRG	e PKPbc	Z	20:17:17.2	146.5	44.4					
CLL	e PKPbc	Z	20:17:18.7	146.6	42.6					
CLZ	e PKPbc	Z	20:17:21.4	147.3	38.1					
TANN	e PKPbc	Z	20:17:21.1	147.5	42.7					
MOX	e PKPbc	Z	20:17:21.1	147.7	41.2					
	e PP	Z	20:20:49.8							
IBBN	e PKPbc	Z	20:17:22.6	147.8	33.5					
	e PP	Z	20:20:49.6							
MANZ	e PKPbc	Z	20:17:23.2	148.0	42.6					
GEC2	e PKPbc	Z	20:17:22.8	148.0	46.3					
ROTZ	e PKPbc	Z	20:17:23.5	148.1	43.0					
UBBA	e PKPbc	Z	20:17:23.0	148.2	38.5					
WET	e PKPbc	Z	20:17:23.8	148.2	44.7					



	e PP	Z	20:20:51.2							
GRA1	e PKPbc	Z	20:17:24.4	148.6	41.6					
	e SS	T	20:40:05.5							
	e L	Z	21:34:53.6			21.5	3889	6.2		
BUG	e PKPbc	Z	20:17:25.4	148.7	33.5					
TNS	e PKPbc	Z	20:17:27.1	149.3	36.6					
	e PP	Z	20:20:59.8							
FUR	e PKPbc	Z	20:17:27.8	149.7	43.4					
STU	e PKPbc	Z	20:17:28.7	150.1	39.4					
WLF	e PKPbc	Z	20:17:30.2	150.6	33.3					
BFO	e PKPbc	Z	20:17:30.1	150.8	38.4					
	e PP	Z	20:21:09.1							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/27 20:11:11.1 23.030S 166.580E 33.0N  
 New Caledonia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	20:30:43.9	145.0	47.5					
CLL	e PKPbc	Z	20:30:43.8	145.1	45.8					
CLZ	e PKPbc	Z	20:30:46.7	145.9	41.4					
TANN	e PKPbc	Z	20:30:47.5	146.0	45.9					
MOX	e PKPbc	Z	20:30:47.6	146.2	44.5					
MANZ	e PKPbc	Z	20:30:48.2	146.5	45.9					
GEC2	e PKPbc	Z	20:30:48.2	146.5	49.4					
IBBN	e PKPbc	Z	20:30:48.9	146.5	37.1					
ROTZ	e PKPbc	Z	20:30:50.3	146.6	46.3					
GRA1	e PKPbc	Z	20:30:50.5	147.1	44.9					
FUR	e PKPbc	Z	20:30:53.4	148.1	46.7					
BFO	e PKPbc	Z	20:30:56.2	149.4	42.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/27

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	20:35:51.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/27 20:25:56.4 23.380S 166.680E 10.0  
 New Caledonia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	20:45:33.9	145.4	47.7					

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CLL	e	PKPbc	Z	20:45:34.1	145.5	45.9
FBE	e	PKPbc	Z	20:45:34.7	145.6	46.8
CLZ	e	PKPbc	Z	20:45:35.9	146.2	41.6
TANN	e	PKPbc	Z	20:45:37.2	146.4	46.1
WERD	e	PKPbc	Z	20:45:37.6	146.4	45.8
GUNZ	e	PKPbc	Z	20:45:38.4	146.5	46.0
WERN	e	PKPbc	Z	20:45:38.6	146.5	46.1
MOX	e	PKPbc	Z	20:45:37.8	146.6	44.6
GEC2	e	PKPbc	Z	20:45:39.6	146.8	49.6
MANZ	e	PKPbc	Z	20:45:39.5	146.8	46.1
IBBN	e	PKPbc	Z	20:45:40.5	146.9	37.2
ROTZ	e	PKPbc	Z	20:45:38.9	146.9	46.4
WET	e	PKPbc	Z	20:45:39.4	147.0	48.1
GRA1	e	PKP	Z	20:45:40.6	147.4	45.1
RJOB	e	PKPbc	Z	20:45:42.6	148.0	49.7
BFO	e	PKPbc	Z	20:45:45.6	149.7	42.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 20:58:18.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27	20:47:16.5	22.240S	170.620E	10.0				SZGRF
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:06:52.1	145.0	32.9					
BRG	e PKPbc	Z 21:06:55.4	146.1	41.1					
CLL	e PKPbc	Z 21:06:55.4	146.1	39.2					
CLZ	e PKPbc	Z 21:06:57.9	146.7	34.7					
TANN	e PKPbc	Z 21:06:58.9	147.1	39.3					
IBBN	e PKPbc	Z 21:06:59.0	147.2	30.2					
MOX	e PKPbc	Z 21:06:59.1	147.2	37.8					
MANZ	e PKPbc	Z 21:07:01.0	147.5	39.2					
ROTZ	e PKPbc	Z 21:07:01.0	147.7	39.5					
UBBA	e PKPbc	Z 21:07:00.3	147.7	35.1					
GEC2	e PKPbc	Z 21:07:00.8	147.7	42.8					
WET	e PKPbc	Z 21:07:01.9	147.8	41.2					
BUG	e PKPbc	Z 21:07:02.9	148.1	30.1					
GRA1	e PKPbc	Z 21:07:02.4	148.1	38.1					
TNS	e PKPbc	Z 21:07:04.1	148.7	33.1					
STU	e PKPbc	Z 21:07:06.7	149.6	35.7					
BFO	e PKPbc	Z 21:07:07.8	150.3	34.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27	21:02: 8.0	23.240S	166.180E	33.0N				SZGRF
New Caledonia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	21:21:40.2	145.0	48.3					
CLL	e PKPbc	Z	21:21:40.2	145.1	46.5					
NRDL	e PKPbc	Z	21:21:42.5	145.5	41.2					
CLZ	e PKPbc	Z	21:21:42.8	145.9	42.2					
TANN	e PKPbc	Z	21:21:44.3	146.0	46.7					
MOX	e PKPbc	Z	21:21:44.8	146.2	45.2					
GEC2	e PKPbc	Z	21:21:44.7	146.4	50.2					
MANZ	e PKPbc	Z	21:21:46.3	146.5	46.7					
ROTZ	e PKPbc	Z	21:21:47.2	146.6	47.0					
WET	e PKPbc	Z	21:21:44.7	146.7	48.7					
GRA1	e PKPbc	Z	21:21:47.0	147.1	45.7					
STU	e PKPbc	Z	21:21:52.2	148.7	43.7					
BFO	e PKPbc	Z	21:21:53.9	149.4	42.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27	21:05:38.7	20.874S	168.448E	33.0N				SZGRF
Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:25:05.4	143.0	35.3					
BRG	e PKPbc	Z	21:25:07.7	144.0	43.1					
CLL	e PKPbc	Z	21:25:08.0	144.0	41.4					
NRDL	e PKPbc	Z	21:25:08.7	144.2	36.2					
CLZ	e PKPbc	Z	21:25:10.5	144.7	37.1					
TANN	e PKPbc	Z	21:25:11.5	144.9	41.4					
MOX	e PKPbc	Z	21:25:11.5	145.1	40.0					
IBBN	e PKPbc	Z	21:25:12.4	145.2	32.8					
MANZ	e PKPbc	Z	21:25:12.1	145.4	41.3					
GEC2	e PKPbc	Z	21:25:13.1	145.5	44.8					
UBBA	e PKPbc	Z	21:25:13.3	145.6	37.4					
WET	e PKPbc	Z	21:25:13.5	145.7	43.3					
GRA1	e PKPbc	Z	21:25:14.5	146.0	40.3					
BUG	e PKPbc	Z	21:25:15.2	146.1	32.7					
TNS	e PKPbc	Z	21:25:17.1	146.7	35.6					
FUR	e PKPbc	Z	21:25:18.1	147.1	41.9					
STU	e PKPbc	Z	21:25:19.3	147.6	38.1					
WLF	e PKPbc	Z	21:25:20.5	148.0	32.4					
BFO	e PKPbc	Z	21:25:20.7	148.2	37.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27	21:26:58.4	21.200S	169.200E	10.0				NEIC
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	21:46:32.9	144.6	42.3					
CLL	e PKPbc	Z	21:46:32.7	144.6	40.6					
NRDL	e PKPbc	Z	21:46:35.1	144.8	35.3					
CLZ	e PKPbc	Z	21:46:35.5	145.2	36.2					
TANN	e PKPbc	Z	21:46:35.5	145.5	40.6					
MOX	e PKPbc	Z	21:46:35.7	145.7	39.1					
IBBN	e PKPbc	Z	21:46:37.2	145.7	31.8					
MANZ	e PKPbc	Z	21:46:37.4	146.0	40.5					
ROTZ	e PKPbc	Z	21:46:37.0	146.1	40.8					
GEC2	e PKPbc	Z	21:46:36.7	146.2	44.0					
WET	e PKPbc	Z	21:46:38.2	146.3	42.5					
GRA1	e PKPbc	Z	21:46:39.6	146.6	39.4					
BUG	e PKPbc	Z	21:46:41.4	146.6	31.7					
FUR	e PKPbc	Z	21:46:42.3	147.7	41.0					
WLF	e PKPbc	Z	21:46:44.5	148.5	31.4					
BFO	e PKPbc	Z	21:46:43.1	148.8	36.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/27	22:01:13.2	22.521S	169.213E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	22:20:48.6	145.7	43.4					
CLL	e PKPbc	Z	22:20:48.4	145.8	41.6					
NRDL	e PKPbc	Z	22:20:49.9	146.0	36.1					
CLZ	e PKPbc	Z	22:20:50.6	146.5	37.1					
TANN	e PKPbc	Z	22:20:51.6	146.7	41.6					
MOX	e PKPbc	Z	22:20:51.7	146.9	40.1					
IBBN	e PKPbc	Z	22:20:52.5	147.0	32.6					
MANZ	e PKPbc	Z	22:20:53.4	147.2	41.6					
GEC2	e PKPbc	Z	22:20:52.6	147.3	45.2					
ROTZ	e PKPbc	Z	22:20:53.9	147.3	41.9					
UBBA	e PKPbc	Z	22:20:53.5	147.4	37.5					
WET	e PKPbc	Z	22:20:53.6	147.5	43.6					
GRA1	e PKPbc	Z	22:20:54.3	147.8	40.5					
BUG	e PKPbc	Z	22:20:54.9	147.9	32.6					
TNS	e PKPbc	Z	22:20:56.6	148.5	35.6					
STU	e PKPbc	Z	22:20:59.1	149.3	38.2					
WLF	e PKPbc	Z	22:21:00.2	149.8	32.3					
	e PKPab	Z	22:21:05.0							



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:27:23.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:33:08.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:33:57.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	01:25:16.0	21.300S	169.500E	10.0				NEIC
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:44:56.6	146.8	39.1					
	e PP	Z 01:48:20.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	01:35:52.0	21.300S	169.400E	10.0		6.4		NEIC
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:55:32.3	146.8	39.2					
	e L	Z 03:02:07.3			21.1	7070		6.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	01:43:58.1	23.300S	169.300E	10.0				NEIC
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:03:47.7	148.5	41.0					







GRA1	e PKP	Z	10:31:59.0	146.7	39.1
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	10:40:35.6	21.500S	169.300E	10.0				NEIC

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:00:16.6	146.9	39.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	11:12:40.7	21.400S	169.200E	10.0				NEIC

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:32:23.1	146.8	39.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	11:16:39.2	21.500S	169.200E	10.0		5.6		NEIC

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:36:21.3	146.9	39.7					
	e L	Z	12:42:11.7			21.1	1184		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	11:43:18.8	21.330S	177.910W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	12:03:00.6	146.8	14.1					
NRDL	e PKPbc	Z	12:03:01.1	148.2	14.3					
IBBN	e PKPab	Z	12:03:06.3	148.7	10.2					
CLZ	e PKPbc	Z	12:03:03.3	148.8	15.0					
	e PKPab	Z	12:03:06.8							
CLL	e PKPbc	Z	12:03:03.0	148.8	19.9					
BRG	e PKPbc	Z	12:03:03.7	149.0	21.8					
	e PKPab	Z	12:03:07.4							
FBE	e PKPbc	Z	12:03:04.0	149.1	20.8					
	e PKPab	Z	12:03:08.2							
MOX	e PKPbc	Z	12:03:05.4	149.7	17.8					

TANN	e PKPbc	Z	12:03:05.3	149.8	19.5
	e PKPab	Z	12:03:10.8		
WERD	e PKPbc	Z	12:03:05.7	149.8	19.2
GUNZ	e PKPbc	Z	12:03:05.7	149.9	19.3
	e PKPab	Z	12:03:11.1		
WERN	e PKPbc	Z	12:03:05.7	149.9	19.4
	e PKPab	Z	12:03:11.5		
MANZ	e PKPbc	Z	12:03:06.5	150.3	19.1
ROTZ	e PKPbc	Z	12:03:07.1	150.5	19.4
TNS	e PKPbc	Z	12:03:07.3	150.7	12.2
	e PKPab	Z	12:03:14.6		
GRA1	e PKPbc	Z	12:03:08.1	150.7	17.6
WET	e PKPbc	Z	12:03:08.1	150.9	21.0
	e PKPab	Z	12:03:15.8		
GEC2	e PKPbc	Z	12:03:08.3	151.0	22.7
WLF	e PKPbc	Z	12:03:09.3	151.5	7.9
	e PKPab	Z	12:03:18.3		
RJOB	e PKPbc	Z	12:03:11.0	152.2	21.8
BFO	e PKPbc	Z	12:03:12.0	152.5	12.7
	e PKPab	Z	12:03:22.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28	13:39:4.2	23.270N	140.810E	240.0	7.0			SZGRF
Volcano Islands, Japan, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	13:51:37.9	90.1	46.8	1.4	1838	7.1		
	e PP	Z	13:55:21.3							
	e SKS	R	14:01:46.1							
	e PS	R	14:03:28.8							
	e SS	T	14:08:28.9							
	e PKKP	Z	14:08:52.7							
RUE	e P	Z	13:51:43.8	91.4	47.2	1.4	1693	7.2		
	e pP	Z	13:52:41.0							
	e SKS	R	14:01:51.9							
	e S	T	14:02:22.9							
	e SS	T	14:08:49.7							
BSEG	e P	Z	13:51:45.6	91.8	44.3	1.3	862	6.9		
	e PP	Z	13:55:33.7							
	e SKS	R	14:01:54.0							
	e S	T	14:02:25.6							
	e PKKP	Z	14:08:48.2							
	e SS	T	14:08:56.7							
BRG	e P	Z	13:51:48.6	92.4	47.4	1.4	1078	7.1		
	e SKS	R	14:01:57.7							
	e S	T	14:02:30.8							
	e SS	T	14:09:02.3							

CLL	e P	Z	13:51:48.8	92.5	46.6	1.5	1408	7.2
	e pP	Z	13:52:47.4					
	e SKS	R	14:01:57.0					
	e S	T	14:02:33.6					
	e PKKP	Z	14:08:45.6					
	e SS	T	14:09:04.3					
	e		14:23:25.4					
FBE	e P	Z	13:51:49.9	92.6	46.9	1.5	2372	7.4
HLG	e P	Z	13:51:49.2	92.6	42.3	1.5	1549	7.2
	e SKS	R	14:01:58.8					
	e PS	R	14:03:53.0					
NRDL	e P	Z	13:51:50.9	92.9	44.2			
	e PP	Z	13:55:41.6					
	e PKKP	Z	14:08:45.4					
CLZ	e P	Z	13:51:52.8	93.3	44.5	1.5	970	6.9
	e SKS	R	14:02:04.7					
	e S	T	14:02:39.7					
	e PKKP	Z	14:08:44.5					
	e SS	T	14:09:13.2					
	e		14:23:23.2					
TANN	e P	Z	13:51:53.3	93.4	46.2	1.5	782	6.8
	e pP	Z	13:52:50.7					
	e PP	Z	13:55:46.8					
	e SKS	R	14:02:04.8					
	e S	T	14:02:40.8					
	e SS	T	14:09:18.8					
	e		14:23:21.7					
WERD	e P	Z	13:51:53.3	93.4	46.1	1.5	941	6.9
	e		14:23:21.3					
GUNZ	e P	Z	13:51:53.8	93.5	46.1	1.4	995	7.0
	e PP	Z	13:55:47.0					
	e		14:23:22.8					
WERN	e P	Z	13:51:54.1	93.5	46.1	1.4	1129	7.0
	e PKKP	Z	14:08:43.4					
	e		14:23:22.0					
MOX	e P	Z	13:51:54.1	93.6	45.5	1.5	859	6.9
	e pP	Z	13:52:52.6					
	e PP	Z	13:55:46.4					
	e SKS	R	14:02:05.3					
	e S	T	14:02:42.9					
	e PS	R	14:04:04.0					
	e SS	T	14:09:18.5					
	e		14:23:21.7					
MANZ	e P	Z	13:51:55.5	93.8	45.9	1.5	754	6.8
	e pP	Z	13:52:53.1					
	e SKS	R	14:02:07.9					
	e S	T	14:02:47.8					
	e PKKP	Z	14:08:42.3					
	e SS	T	14:09:23.8					

	e		14:23:20.5					
GEC2	e P	Z	13:51:55.5	93.9	47.2	1.3	462	6.7
	e SKS	R	14:02:07.2					
	e S	T	14:02:47.6					
	e PKKP	Z	14:08:41.9					
	e SS	T	14:09:24.8					
ROTZ	e P	Z	13:51:56.2	93.9	46.0	1.5	1308	7.0
	e PP	Z	13:55:49.1					
	e SKS	R	14:02:08.5					
	e S	T	14:02:48.4					
	e SS	T	14:09:24.8					
	e		14:23:19.4					
WET	e P	Z	13:51:56.6	94.0	46.6	1.7	920	6.8
	e SKS	R	14:02:09.0					
	e S	T	14:02:49.3					
	e PS	R	14:04:09.4					
	e PKKP	Z	14:08:41.2					
	e SS	T	14:09:29.1					
	e		14:23:19.8					
IBBN	e P	Z	13:51:55.7	94.1	42.3	1.4	1082	7.0
	e SKS	R	14:02:07.3					
	e S	T	14:02:44.2					
	e PS	R	14:04:08.5					
	e PKKP	Z	14:08:42.3					
	e SS	T	14:09:21.8					
UBBA	e P	Z	13:51:56.6	94.2	44.2	1.6	731	6.8
	e SKS	R	14:02:08.9					
	e S	T	14:02:48.2					
	e PS	R	14:04:10.2					
	e SS	T	14:09:27.5					
	e		14:23:17.9					
GRA1	e P	Z	13:51:58.3	94.4	45.2	1.5	1517	7.2
	e pP	Z	13:52:57.6					
	e SKS	R	14:02:10.9					
	e S	T	14:02:52.6					
	e PS	R	14:04:11.9					
	e SS	T	14:09:30.4					
	e PKPPKP	Z	14:16:34.9					
GRFO	e PP	Z	13:55:54.3	94.4	45.2			
	e SKS	R	14:02:10.9					
	e S	T	14:02:52.2					
	e PS	R	14:04:13.4					
	e SS	T	14:09:31.4					
	e		14:23:17.5					
BUG	e P	Z	13:51:59.5	94.9	41.9	1.5	681	6.9
	e SKS	R	14:02:11.8					
	e S	T	14:02:53.2					
	e SS	T	14:09:29.8					
RJOB	e P	Z	13:52:01.3	95.1	46.6	0.9	272	6.7

	e pP	Z	13:53:00.5								
	e SKS	R	14:02:12.0								
	e S	T	14:02:57.7								
	e PS	R	14:04:22.1								
	e PKKP	Z	14:08:38.6								
	e SS	T	14:09:37.4								
	e		14:23:14.9								
TNS	e P	Z	13:52:01.9	95.3	43.0	1.6		651	6.9		
	e pP	Z	13:53:00.3								
	e PP	Z	13:55:59.6								
	e SKS	R	14:02:15.1								
	e S	T	14:02:58.2								
	e SS	T	14:09:37.7								
FUR	e P	Z	13:52:03.0	95.5	45.4	1.1		1014	7.3		
	e SKS	R	14:02:15.9								
	e S	T	14:03:02.9								
	e PS	R	14:04:24.8								
	e PKKP	Z	14:08:37.4								
	e SS	T	14:09:49.6								
	e		14:23:12.3								
STU	e P	Z	13:52:05.1	96.0	43.7	1.6		1318	7.2		
	e SKS	R	14:02:17.4								
	e S	T	14:03:05.0								
	e PS	R	14:04:29.1								
	e SS	T	14:09:54.9								
	e		14:23:10.4								
WLF	e P	Z	13:52:08.4	96.7	41.1	1.5		1168	7.3		
	e SKS	R	14:02:21.2								
	e S	T	14:03:10.8								
	e PKKP	Z	14:08:34.8								
BFO	e P	Z	13:52:08.2	96.7	43.0	1.3		530	7.0		
	e pP	Z	13:53:06.4								
	e S	T	14:03:08.3								
	e PS	R	14:04:39.7								
	e PKKP	Z	14:08:33.9								
	e SS	T	14:10:05.8								
	e		14:23:06.3								

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/28 16:02:22.7 21.700S 169.200E 35.0  
 Southeast of Loyalty Islands NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:22:01.3	147.1	39.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:50:31.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:34:47.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	01:24:54.4	45.864N	15.524E	10.0G			3.4	SZGRF
Northwestern Balkan Peninsula								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z 01:25:18.2	1.4	180.0					2.9
KBA	e Pn	Z 01:25:26.3	1.9	128.2					3.1
	e Sg	N 01:25:53.3							
MOA	e Pn	Z 01:25:30.3	2.2	156.1					3.0
GEC2	e Pn	Z 01:25:44.2	3.2	156.8					3.4
	e Sg	N 01:26:35.6							
WET	e Pn	Z 01:25:51.9	3.7	150.4					3.4
ROTZ	e Pn	Z 01:26:00.9	4.5	149.0					3.6
MANZ	e Pn	Z 01:26:04.6	4.7	149.7					3.6
GRA1	e Sg	E 01:27:27.3	4.8	141.3					3.9
NKC	e Sg	E 01:27:26.6	4.8	153.6					
WERN	e Pn	Z 01:26:06.3	4.9	153.4					3.7
MOX	e Pn	Z 01:26:14.0	5.4	150.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	05:32:44.4	2.500N	94.500E	33.0N	5.5	5.5		SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:45:02.1	82.1	95.3	2.3	197	5.8		
BRG	e P	Z 05:45:02.4	82.1	95.8	1.9	93	5.6		
RUE	e P	Z 05:45:03.1	82.4	95.9	1.6	152	5.9		
FBE	e P	Z 05:45:04.1	82.5	95.3	1.8	109	5.7		
RJOB	e P	Z 05:45:04.8	82.6	94.5	1.0	19	5.3		
WET	e P	Z 05:45:05.0	82.6	94.7	2.3	162	5.8		
CLL	e P	Z 05:45:06.1	82.7	95.1	1.3	28	5.3		

TANN	e P	Z	05:45:06.7	83.0	94.6	1.8	34	5.3		
WERN	e P	Z	05:45:06.8	83.0	94.5	2.3	109	5.7		
GUNZ	e P	Z	05:45:07.1	83.1	94.4	1.3	28	5.3		
WERD	e P	Z	05:45:07.1	83.1	94.4	1.7	44	5.4		
ROTZ	e P	Z	05:45:09.0	83.1	94.3	2.3	131	5.8		
MANZ	e P	Z	05:45:08.1	83.2	94.2	1.1	35	5.5		
MOX	e P	Z	05:45:09.4	83.6	93.9	1.9	66	5.5		
FUR	e P	Z	05:45:09.9	83.6	93.4	2.7	193	5.8		
GRA1	e P	Z	05:45:10.8	83.7	93.5	1.0	46	5.7		
	e S	T	05:55:34.6							
	e L	Z	06:29:46.5			21.1	1997		5.5	
CLZ	e P	Z	05:45:11.9	84.4	93.1	1.2	27	5.4		
BSEG	e P	Z	05:45:14.6	84.6	93.2	1.3	58	5.7		
UBBA	e P	Z	05:45:16.2	84.6	92.7	1.5	20	5.1		
NRDL	e P	Z	05:45:14.9	84.6	92.9	1.6	79	5.7		
STU	e P	Z	05:45:16.8	85.0	91.9	1.3	32	5.4		
TNS	e P	Z	05:45:19.6	85.6	91.4	1.3	27	5.2		
BFO	e P	Z	05:45:19.3	85.6	91.2	0.8	13	5.1		
IBBN	e P	Z	05:45:23.7	86.0	91.0	2.3	293	6.0		
WLF	e P	Z	05:45:27.2	87.0	89.6	1.1	25	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/29 05:37: 6.4 2.230N 95.130E 33.0N 5.5  
 Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:49:27.4	82.7	95.0	1.3	62	5.7		
BRG	e P	Z	05:49:27.3	82.7	95.4	1.6	51	5.5		
RUE	e P	Z	05:49:28.5	83.0	95.5	1.3	82	5.8		
FBE	e P	Z	05:49:29.2	83.1	95.0	1.4	50	5.6		
RJOB	e P	Z	05:49:29.4	83.2	94.2	1.0	27	5.4		
WET	e P	Z	05:49:30.1	83.2	94.4	3.5	463	6.1		
CLL	e P	Z	05:49:30.0	83.3	94.8	1.2	24	5.3		
TANN	e P	Z	05:49:31.8	83.6	94.2					
WERN	e P	Z	05:49:32.1	83.7	94.2	0.9	15	5.2		
GUNZ	e P	Z	05:49:32.3	83.7	94.1	1.0	15	5.2		
WERD	e P	Z	05:49:32.3	83.7	94.1	1.0	14	5.2		
ROTZ	e P	Z	05:49:32.9	83.7	94.0	1.9	70	5.6		
MANZ	e P	Z	05:49:33.4	83.8	93.9	1.2	48	5.6		
MOX	e P	Z	05:49:34.6	84.2	93.6	1.8	71	5.6		
FUR	e P	Z	05:49:34.7	84.2	93.1	1.4	67	5.7		
GRA1	e P	Z	05:49:35.9	84.4	93.2	1.1	46	5.6		
	e S	T	06:00:01.1							
CLZ	e P	Z	05:49:38.7	85.0	92.7	1.0	25	5.4		
BSEG	e P	Z	05:49:39.5	85.1	92.9	1.0	42	5.6		
UBBA	e P	Z	05:49:39.6	85.2	92.4	1.9	51	5.4		
NRDL	e P	Z	05:49:40.2	85.2	92.6	2.1	118	5.8		

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STU	e P	Z	05:49:41.9	85.6	91.6	0.8	19	5.3
TNS	e P	Z	05:49:44.8	86.2	91.1	1.1	26	5.3
BFO	e P	Z	05:49:44.7	86.2	90.9	1.3	23	5.2
IBBN	e P	Z	05:49:47.1	86.6	90.7	1.4	85	5.7
BUG	e P	Z	05:49:48.4	86.9	90.3	1.2	38	5.4
WLF	e P	Z	05:49:52.5	87.6	89.3	1.1	35	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	05:59:49.3	46.128N	153.277E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:11:48.6	78.7	25.8	0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	06:42:33.5	5.900N	127.600E	54.2				GSRC

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z 06:56:16.6	99.9	67.7					
CLL	e Pdiff	Z 06:56:18.4	100.3	66.8					
GEC2	e Pdiff	Z 06:56:20.6	100.8	67.8					
TANN	e Pdiff	Z 06:56:21.6	101.0	66.5					
MANZ	e Pdiff	Z 06:56:23.5	101.3	66.3					
ROTZ	e Pdiff	Z 06:56:24.0	101.4	66.4					
CLZ	e Pdiff	Z 06:56:24.7	101.6	64.5					
RJOB	e Pdiff	Z 06:56:25.1	101.8	67.3					
GRA1	e Pdiff	Z 06:56:26.2	102.0	65.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	12:27:0.7	21.300S	169.500E	10.0				NEIC

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:46:42.2	146.8	39.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 14:05:22.2							



e Sn E 14:06:02.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	15:36:47.2	21.280S	169.990E	33.0N		5.3		SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 15:56:19.3	145.0	41.2					
CLL	e PKPbc	Z 15:56:19.3	145.0	39.5					
NRDL	e PKPbc	Z 15:56:20.2	145.1	34.1					
CLZ	e PKPbc	Z 15:56:22.0	145.6	35.1					
TANN	e PKPbc	Z 15:56:23.1	145.9	39.5					
IBBN	e PKPbc	Z 15:56:23.1	146.1	30.6					
MOX	e PKPbc	Z 15:56:23.5	146.1	38.0					
MANZ	e PKPbc	Z 15:56:24.3	146.4	39.4					
ROTZ	e PKPbc	Z 15:56:25.2	146.5	39.7					
UBBA	e PKPbc	Z 15:56:25.0	146.6	35.4					
GEC2	e PKPbc	Z 15:56:24.8	146.6	42.9					
WET	e PKPbc	Z 15:56:25.4	146.7	41.3					
BUG	e PKPbc	Z 15:56:26.1	147.0	30.5					
GRA1	e PKPbc	Z 15:56:26.2	147.0	38.3					
	e SS	T 16:19:03.1							
	e L	Z 17:02:20.5			21.7	585		5.3	
TNS	e PKPbc	Z 15:56:28.4	147.6	33.4					
STU	e PKPbc	Z 15:56:30.4	148.5	36.0					
WLF	e PKPbc	Z 15:56:31.6	148.9	30.1					
BFO	e PKPbc	Z 15:56:32.5	149.2	35.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 16:09:29.1							
GEC2	e PKP	Z 16:09:34.4							
MOX	e PKP	Z 16:09:33.2							
TANN	e PKP	Z 16:09:32.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	16:10: 7.4	28.500S	177.000W	35.0				NEIC

Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z 16:30:15.1	154.0	14.8					

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CLL	e	PKPab	Z	16:30:23.7	156.0	22.0
BRG	e	PKPab	Z	16:30:25.1	156.2	24.4
MOX	e	PKPab	Z	16:30:28.1	156.9	19.6
TANN	e	PKPab	Z	16:30:28.4	156.9	21.6
MANZ	e	PKPab	Z	16:30:30.3	157.4	21.2
TNS	e	PKPab	Z	16:30:32.4	157.9	12.8
GRA1	e	PKPab	Z	16:30:32.6	157.9	19.5
WET	e	PKPab	Z	16:30:33.0	158.0	23.7
RJOB	e	PKPab	Z	16:30:39.3	159.3	25.0
BFO	e	PKPab	Z	16:30:43.5	159.7	13.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	17:06:44.9	20.055S	170.280E	33.0N				SZGRF
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z 17:26:14.1	144.0	39.9					
CLL	e	PKPbc	Z 17:26:14.0	144.0	38.2					
CLZ	e	PKPbc	Z 17:26:16.7	144.6	33.8					
TANN	e	PKPbc	Z 17:26:17.6	144.9	38.1					
IBBN	e	PKPbc	Z 17:26:17.9	145.0	29.5					
GEC2	e	PKPbc	Z 17:26:19.7	145.6	41.4					
GRA1	e	PKPbc	Z 17:26:20.8	146.0	36.9					
WLF	e	PKPbc	Z 17:26:26.4	147.8	28.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	17:24:58.7	21.950S	171.450E	33.0N		5.3		SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 17:44:29.8	145.0	31.5					
BRG	e	PKPbc	Z 17:44:33.7	146.2	39.6					
CLL	e	PKPbc	Z 17:44:33.6	146.2	37.8					
NRDL	e	PKPbc	Z 17:44:34.3	146.3	32.3					
CLZ	e	PKPbc	Z 17:44:36.1	146.7	33.2					
TANN	e	PKPbc	Z 17:44:37.2	147.1	37.8					
IBBN	e	PKPbc	Z 17:44:37.3	147.1	28.7					
MOX	e	PKPbc	Z 17:44:37.6	147.3	36.2					
MANZ	e	PKPbc	Z 17:44:39.1	147.6	37.6					
UBBA	e	PKPbc	Z 17:44:39.2	147.7	33.5					
ROTZ	e	PKPbc	Z 17:44:39.8	147.7	38.0					
GEC2	e	PKPbc	Z 17:44:39.2	147.8	41.3					
WET	e	PKPbc	Z 17:44:40.1	147.9	39.7					
BUG	e	PKPbc	Z 17:44:40.1	148.1	28.5					
GRA1	e	PKPbc	Z 17:44:41.5	148.2	36.5					

	e L	Z	18:50:22.2			21.1	573	5.3
TNS	e PKPbc	Z	17:44:42.2	148.7	31.5			
RJOB	e PKPbc	Z	17:44:44.2	149.1	41.0			
FUR	e PKPbc	Z	17:44:46.0	149.4	38.1			
STU	e PKPbc	Z	17:44:47.3	149.7	34.1			
WLF	e PKPbc	Z	17:44:48.8	150.0	28.0			
BFO	e PKPbc	Z	17:44:49.9	150.4	33.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/29	23:38:4.0	21.889S	170.800E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	23:57:40.1	145.9	40.5					
CLL	e PKPbc	Z	23:57:40.2	145.9	38.7					
TANN	e PKPbc	Z	23:57:43.1	146.8	38.7					
MOX	e PKPbc	Z	23:57:43.2	147.0	37.2					
MANZ	e PKPbc	Z	23:57:44.4	147.3	38.6					
ROTZ	e PKPbc	Z	23:57:44.9	147.4	39.0					
GEC2	e PKPbc	Z	23:57:44.9	147.5	42.2					
WET	e PKPbc	Z	23:57:45.2	147.6	40.6					
GRA1	e PKPbc	Z	23:57:45.3	147.9	37.5					
STU	e PKPbc	Z	23:57:50.0	149.4	35.1					
WLF	e PKPbc	Z	23:57:51.4	149.7	29.1					
BFO	e PKPbc	Z	23:57:52.1	150.1	34.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/30	02:08:29.4	10.500N	145.700E	10.0		7.1		NEIC

South of Mariana Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e Pdiff	Z	02:22:39.2	105.4	45.7					
	e		02:25:58.1							
BRG	e PS	R	02:36:16.0							
	e Pdiff	Z	02:22:40.9	105.8	49.7					
CLL	e PPP	Z	02:29:23.6							
	e PS	R	02:36:20.8							
CLL	e Pdiff	Z	02:22:41.7	105.9	48.7					
	e		02:26:04.6							
CLZ	e PPP	Z	02:29:24.0							
	e PS	R	02:36:22.5							
CLZ	e Pdiff	Z	02:22:46.1	106.8	46.2					
	e		02:26:09.8							
CLZ	e PPP	Z	02:29:32.1							
	e PS	R	02:36:33.9							

TANN	e Pdiff	Z	02:22:45.6	106.8	48.4				
	e PPP	Z	02:29:31.8						
	e PS	R	02:36:29.8						
MOX	e Pdiff	Z	02:22:46.8	107.0	47.6				
	e PS	R	02:36:31.7						
GEC2	e Pdiff	Z	02:22:47.7	107.2	49.9				
	e		02:26:10.2						
	e PS	R	02:36:34.0						
ROTZ	e Pdiff	Z	02:22:48.4	107.3	48.4				
	e		02:26:11.3						
	e PS	R	02:36:37.5						
WET	e Pdiff	Z	02:22:48.7	107.4	49.1				
	e		02:26:11.7						
	e PS	R	02:36:38.2						
IBBN	e Pdiff	Z	02:22:49.3	107.6	43.7				
	e		02:26:13.2						
	e PPP	Z	02:29:36.4						
	e PS	R	02:36:40.2						
UBBA	e Pdiff	Z	02:22:49.5	107.7	46.1				
	e PS	R	02:36:43.7						
GRA1	e Pdiff	Z	02:22:50.7	107.9	47.5				
	e		02:26:14.5						
	e PPP	Z	02:29:35.0						
	e PS	R	02:36:43.0						
	e L	Z	03:17:05.6			21.0	58759		7.1
BUG	e PPP	Z	02:29:43.1	108.4	43.4				
	e PS	R	02:36:48.8						
TNS	e Pdiff	Z	02:22:55.0	108.8	44.8				
	e PPP	Z	02:29:43.6						
	e PS	R	02:36:52.5						
FUR	e Pdiff	Z	02:22:55.2	108.9	47.9				
	e PS	R	02:36:53.1						
STU	e Pdiff	Z	02:22:57.7	109.5	45.9				
	e		02:26:21.7						
	e PS	R	02:37:00.4						
BFO	e Pdiff	Z	02:23:00.4	110.2	45.2				
	e		02:26:25.1						
	e PS	R	02:37:05.4						
WLF	e Pdiff	Z	02:23:01.5	110.2	42.8				
	e		02:26:26.2						
	e PS	R	02:37:07.6						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/09/30 05:23:34.7 49.400S 163.900E 10.0 7.5 NEIC  
 Auckland Islands, New Zealand, region

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

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GRA1	e PKP	Z	05:43:33.8	162.4	99.6							
	e PP	Z	05:48:12.4									
	e L	Z	06:58:58.9			25.6	88201		7.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/30	08:35: 8.8	10.600N	145.500E	10.0				NEIC
South of Mariana Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 08:53:52.1	107.7	47.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/30								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:10:43.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/09/30	09:47:49.5	49.400S	163.300E	10.0		6.9		NEIC
Auckland Islands, New Zealand, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPdf	Z 10:07:48.5	160.2	103.2					
	e PKPab	Z 10:08:32.8							
	e PP	Z 10:12:13.2							
BRG	e PKPdf	Z 10:07:49.0	160.4	97.7					
	e PKPab	Z 10:08:33.8							
RUE	e PKPdf	Z 10:07:49.2	160.7	93.1					
	e PKPab	Z 10:08:34.7							
	e PP	Z 10:12:16.6							
FBE	e PKPdf	Z 10:07:49.5	160.8	97.2					
	e PKPab	Z 10:08:35.2							
WET	e PKPdf	Z 10:07:49.4	160.8	102.1					
	e PKPab	Z 10:08:35.5							
	e PP	Z 10:12:18.7							
RGN	e PP	Z 10:12:20.8	161.0	86.7					
CLL	e PKPdf	Z 10:07:49.3	161.1	95.9					
	e PKPab	Z 10:08:36.3							
TANN	e PKPdf	Z 10:07:50.1	161.3	98.2					
	e PKPab	Z 10:08:37.5							
	e PP	Z 10:12:19.1							
WERN	e PKPdf	Z 10:07:50.2	161.3	98.6					
	e PKPab	Z 10:08:37.9							

ROTZ	e PKPdf	Z	10:07:50.0	161.4	100.0			
	e PKPab	Z	10:08:37.9					
	e PP	Z	10:12:21.6					
GUNZ	e PKPdf	Z	10:07:50.1	161.4	98.3			
	e PKPab	Z	10:08:38.3					
WERD	e PKPdf	Z	10:07:49.8	161.4	98.1			
	e PKPab	Z	10:08:38.5					
MANZ	e PKPdf	Z	10:07:50.1	161.5	99.3			
	e PKPab	Z	10:08:38.6					
	e PP	Z	10:12:22.1					
GRB3	e		10:17:50.1	161.5	101.1			
FUR	e PKPdf	Z	10:07:50.1	161.6	104.4			
	e PKPab	Z	10:08:39.2					
	e PP	Z	10:12:21.6					
MOX	e PKPdf	Z	10:07:50.3	161.9	97.1			
	e PKPab	Z	10:08:40.1					
	e PP	Z	10:12:23.3					
GRA1	e PKPdf	Z	10:07:50.5	162.0	99.8			
	e PKPab	Z	10:08:41.1					
	e PP	Z	10:12:24.2					
	e L	Z	11:26:40.6			21.7	17157	6.9
CLZ	e PKPdf	Z	10:07:51.5	162.8	92.6			
	e PKPab	Z	10:08:43.7					
BSEG	e PKPdf	Z	10:07:51.2	162.8	85.8			
	e PKPab	Z	10:08:44.0					
NRDL	e PKPdf	Z	10:07:51.5	162.9	90.3			
	e PKPab	Z	10:08:44.7					
STU	e PKPdf	Z	10:07:51.5	163.1	101.9			
	e PKPab	Z	10:08:45.5					
	e PP	Z	10:12:28.0					
BFO	e PKPdf	Z	10:07:51.8	163.6	103.1			
	e PKPab	Z	10:08:47.2					
	e PP	Z	10:12:30.5					
TNS	e PKPdf	Z	10:07:52.2	163.8	96.8			
	e PKPab	Z	10:08:48.6					
	e PP	Z	10:12:33.5					
IBBN	e PKPdf	Z	10:07:52.5	164.4	89.0			
	e PKPab	Z	10:08:50.6					
BUG	e PKPdf	Z	10:07:52.9	164.7	91.8			
	e PKPab	Z	10:08:52.2					
	e PP	Z	10:12:36.4					
WLF	e PKPdf	Z	10:07:53.9	165.2	97.7			
	e PKPab	Z	10:08:54.7					
	e PP	Z	10:12:36.4					



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:31:15.3							

## Format description

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

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

Each event is reported by several EPICENTER LINES with possible COMMENT LINES, a REGION LINE and a block of PHASE LINES.

## EPICENTER LINES:

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

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

## 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  
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