

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

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(produced by SZGRF/BGR - ERLANGEN)

MAY 2008

UPDATED 22.SEPTEMBER.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		
2008/05/01	02:32:55.4	51.820N	179.140W	53.7	5.2	4.1		SZGRF		
Andreanof Islands, Aleutian Islands, United States										
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:44:28.2	74.0	6.1	1.2	50	5.4		
NRDL	e P	Z	02:44:36.2	75.4	5.9	1.1	20	5.1		
IBBN	e P	Z	02:44:38.1	75.7	4.4	1.2	83	5.7		
	e pP	Z	02:44:53.4							
CLZ	e P	Z	02:44:40.2	76.0	6.0	1.2	48	5.5		
CLL	e P	Z	02:44:41.2	76.4	7.7	1.3	18	5.1		
BUG	e P	Z	02:44:42.7	76.6	4.1	1.6	53	5.4		
BRG	e P	Z	02:44:43.5	76.7	8.3	1.1	13	5.0		
UBBA	e P	Z	02:44:45.4	77.1	5.8	1.7	31	5.2		
MOX	e P	Z	02:44:46.0	77.1	6.8	1.3	15	5.0		
	e pP	Z	02:45:01.2							
WERD	e P	Z	02:44:46.8	77.3	7.2	1.5	23	5.1		
TANN	e P	Z	02:44:47.0	77.3	7.3	2.0	43	5.2		
GUNZ	e P	Z	02:44:47.2	77.4	7.2	1.8	33	5.2		
WERN	e P	Z	02:44:47.8	77.4	7.3	1.4	23	5.1		
TNS	e P	Z	02:44:49.3	77.8	4.8	1.4	36	5.3		
ROTZ	e P	Z	02:44:50.8	78.0	7.1	1.5	14	4.9		
GRA1	e P	Z	02:44:51.7	78.1	6.5	1.7	89	5.6		
	e pP	Z	02:45:06.8							
	e L	Z	03:24:01.0			21.8	95		4.1	
WLF	e P	Z	02:44:53.2	78.4	3.3	1.8	60	5.4		
WET	e P	Z	02:44:53.9	78.5	7.5	1.9	27	5.1		
GEC2	e P	Z	02:44:54.7	78.7	8.1	1.3	9	4.7		
STU	e P	Z	02:44:56.9	79.2	5.2	1.1	17	5.0		
FUR	e P	Z	02:45:00.1	79.6	6.5	1.6	27	5.0		
RJOB	e P	Z	02:45:01.5	79.9	7.5	1.2	9	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/01	04:57:47.3	20.550S	170.150E	42.5		5.1		SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	05:17:18.3	145.0	34.3					
TANN	e PKPbc	Z	05:17:19.4	145.3	38.7					
WERD	e PKPbc	Z	05:17:19.7	145.4	38.4					
GUNZ	e PKPbc	Z	05:17:20.1	145.4	38.5					
IBBN	e PKPbc	Z	05:17:19.6	145.4	30.0					
	e pPKPbc	Z	05:17:32.7							
WERN	e PKPbc	Z	05:17:20.1	145.5	38.7					
MOX	e PKPbc	Z	05:17:19.8	145.5	37.2					
ROTZ	e PKPbc	Z	05:17:21.6	145.9	38.9					
UBBA	e PKPbc	Z	05:17:20.8	145.9	34.6					
GEC2	e PKPbc	Z	05:17:21.4	146.0	42.0					
WET	e PKPbc	Z	05:17:22.2	146.1	40.5					
BUG	e PKPbc	Z	05:17:22.5	146.3	29.8					
GRA1	e PKPbc	Z	05:17:23.3	146.4	37.5					
	e pPKPbc	Z	05:17:35.9							
	e L	Z	06:21:27.7			20.8	338		5.1	
GRFO	e PKPbc	Z	05:17:23.4	146.4	37.5					
TNS	e PKPbc	Z	05:17:25.1	147.0	32.7					
RJOB	e PKPbc	Z	05:17:25.5	147.2	41.8					
FUR	e PKPbc	Z	05:17:27.2	147.6	39.0					
	e pPKPbc	Z	05:17:39.6							
STU	e PKPbc	Z	05:17:28.1	147.9	35.1					
WLF	e PKPbc	Z	05:17:29.4	148.2	29.4					
BFO	e PKPbc	Z	05:17:29.7	148.6	34.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	11:05:06.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	17:57:59.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/01	21:58:48.5	37.060N	142.670E	33.0N	5.1			SZGRF
Off east coast of Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	22:10:56.9	80.0	39.1	0.5	14	5.1		
BSEG	e P	Z	22:10:57.4	80.2	36.8	1.0	26	5.1		
BRG	e P	Z	22:11:02.7	81.2	39.0	1.1	18	5.0		
CLL	e P	Z	22:11:02.4	81.3	38.4	1.0	26	5.2		
NRDL	e P	Z	22:11:03.8	81.4	36.5	1.0	10	4.9		
CLZ	e P	Z	22:11:06.2	81.8	36.6	1.1	25	5.2		
WERD	e P	Z	22:11:07.9	82.2	37.9	1.1	9	4.8		
GUNZ	e P	Z	22:11:08.2	82.3	37.9	1.1	12	4.9		
WERN	e P	Z	22:11:08.6	82.3	37.9	1.0	11	5.0		
MOX	e P	Z	22:11:08.4	82.3	37.4	0.9	8	4.8		
IBBN	e P	Z	22:11:08.9	82.4	34.8	1.2	34	5.4		
ROTZ	e P	Z	22:11:11.3	82.8	37.7	1.4	16	5.1		
GEC2	e P	Z	22:11:11.3	82.9	38.7	1.1	10	5.0		
WET	e P	Z	22:11:12.2	83.0	38.2	1.0	10	5.0		
GRA1	e P	Z	22:11:13.7	83.2	37.0	1.0	37	5.6		
TNS	e P	Z	22:11:16.3	83.9	35.1	0.8	8	5.0		
RJOB	e P	Z	22:11:18.2	84.1	38.0	1.0	18	5.3		
FUR	e P	Z	22:11:19.5	84.4	37.0	1.0	29	5.5		
STU	e P	Z	22:11:21.1	84.8	35.6	1.0	27	5.4		
BFO	e P	Z	22:11:24.4	85.4	34.9	1.0	24	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/02	01:33:38.3	51.360N	178.980E	33.0G	6.4	6.7		SZGRF
Rat Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	01:45:10.0	73.4	9.3	1.7	1355	6.8		
	e S	T	01:54:41.6							
HLG	e P	Z	01:45:12.4	74.2	5.8	1.8	1422	6.8		
	e S	T	01:54:48.0							
BSEG	e P	Z	01:45:14.7	74.3	7.3	1.5	646	6.5		
	e S	T	01:54:49.9							
RUE	e P	Z	01:45:21.5	75.4	9.5	1.4	460	6.4		
	e S	T	01:55:01.7							
NRDL	e P	Z	01:45:22.6	75.7	7.1	1.5	375	6.3		
	e S	T	01:55:04.9							
IBBN	e P	Z	01:45:24.8	76.1	5.6	1.9	1898	6.9		
	e S	T	01:55:08.2							
CLZ	e P	Z	01:45:26.8	76.4	7.3	1.8	1085	6.7		
	e S	T	01:55:12.3							

CLL	e P	Z	01:45:27.8	76.6	8.9	1.5	352	6.3
	e S	T	01:55:14.2					
BUG	e P	Z	01:45:29.4	77.0	5.3	1.6	526	6.3
	e S	T	01:55:18.5					
BRG	e P	Z	01:45:29.9	77.0	9.5	1.4	270	6.1
	e S	T	01:55:18.1					
MOX	e P	Z	01:45:32.6	77.4	8.0	1.6	415	6.2
	e S	T	01:55:23.6					
WERD	e P	Z	01:45:33.7	77.6	8.5	2.0	599	6.3
	e S	T	01:55:24.6					
TANN	e P	Z	01:45:33.7	77.6	8.6	1.9	630	6.3
	e S	T	01:55:25.2					
GUNZ	e P	Z	01:45:34.2	77.6	8.5	1.9	662	6.3
	e S	T	01:55:25.6					
WERN	e P	Z	01:45:34.7	77.7	8.5	3.1	2542	6.7
	e S	T	01:55:26.6					
TNS	e P	Z	01:45:36.2	78.1	6.0	1.3	447	6.3
	e S	T	01:55:31.0					
ROTZ	e P	Z	01:45:37.7	78.2	8.4	2.0	569	6.3
	e S	T	01:55:33.1					
GRA1	e P	Z	01:45:38.7	78.4	7.8	2.0	1570	6.7
	e S	T	01:55:35.5					
	e PKPPKPdf	Z	02:12:35.5					
	e L	Z	02:24:16.0			20.9	37689	6.7
GRFO	e S	T	01:55:35.5	78.4	7.8			
WLF	e P	Z	01:45:40.9	78.8	4.6	1.5	424	6.3
	e S	T	01:55:39.5					
WET	e P	Z	01:45:40.8	78.8	8.8	1.8	402	6.3
	e S	T	01:55:39.4					
GEC2	e P	Z	01:45:42.3	79.0	9.3	1.7	309	6.2
	e S	T	01:55:41.0					
STU	e P	Z	01:45:44.2	79.5	6.5	1.5	297	6.2
	e S	T	01:55:45.5					
FUR	e P	Z	01:45:47.0	79.9	7.8	1.6	440	6.3
	e S	T	01:55:50.0					
BFO	e P	Z	01:45:46.9	80.0	5.9	1.9	498	6.3
	e S	T	01:55:51.7					
RJOB	e S	T	01:55:55.2	80.2	8.7			

Date 2008/05/02 Origin Time 05:41:30.0 Lat 37.958N Long 142.231E Depth 40.2 mb 5.4 Ms ML Source SZGRF  
 Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:53:31.1	79.2	36.7	1.1	43	5.3		
	e pP	Z	05:53:42.9							
BRG	e P	Z	05:53:36.4	80.3	38.9	1.2	26	5.2		

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CLL	e P	Z	05:53:36.3	80.3	38.3	1.1	43	5.4
	e pP	Z	05:53:47.8					
NRDL	e P	Z	05:53:37.3	80.4	36.4	0.9	14	5.0
CLZ	e P	Z	05:53:40.0	80.9	36.5	1.3	56	5.5
TANN	e P	Z	05:53:41.6	81.2	37.8	1.0	9	4.8
MOX	e P	Z	05:53:42.2	81.4	37.3	1.6	30	5.2
	e pP	Z	05:53:54.3					
IBBN	e P	Z	05:53:42.7	81.4	34.7	1.1	47	5.6
ROTZ	e P	Z	05:53:45.3	81.8	37.6	1.4	39	5.4
	e pP	Z	05:53:56.6					
GEC2	e P	Z	05:53:45.1	82.0	38.5	0.8	13	5.1
WET	e P	Z	05:53:46.1	82.1	38.0	1.4	28	5.2
	e pP	Z	05:53:57.4					
GRA1	e P	Z	05:53:47.5	82.3	36.9	1.6	116	5.8
	e pP	Z	05:53:59.1					
BUG	e P	Z	05:53:47.7	82.3	34.3	0.5	11	5.3
TNS	e P	Z	05:53:50.2	82.9	35.0	0.8	19	5.4
RJOB	e P	Z	05:53:52.0	83.2	37.8	1.0	24	5.4
FUR	e P	Z	05:53:53.3	83.5	36.8	0.8	44	5.7
STU	e P	Z	05:53:55.2	83.8	35.4			
WLF	e P	Z	05:53:57.4	84.2	33.4	1.5	40	5.4
BFO	e P	Z	05:53:58.2	84.5	34.8	1.1	44	5.6

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/02 15:56:24.0 27.020N 102.060E 33.0N 4.9  
 Sichuan, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:07:22.3	68.2	73.5	1.0	6	4.8		
CLL	e P	Z	16:07:25.3	68.7	73.0	1.5	13	4.9		
GEC2	e P	Z	16:07:27.0	69.0	72.6	0.9	6	4.8		
TANN	e P	Z	16:07:28.8	69.3	72.3	1.1	7	4.8		
WET	e P	Z	16:07:29.9	69.4	72.1	1.2	7	4.7		
BSEG	e P	Z	16:07:30.3	69.4	72.0	0.8	9	5.0		
ROTZ	e P	Z	16:07:31.5	69.6	71.9	1.1	14	5.0		
MOX	e P	Z	16:07:31.4	69.7	71.8	1.4	7	4.6		
RJOB	e P	Z	16:07:32.8	69.9	71.6	1.2	11	4.9		
NRDL	e P	Z	16:07:33.8	70.0	71.3	1.1	10	4.9		
CLZ	e P	Z	16:07:33.9	70.1	71.3	1.0	15	5.1		
GRA1	e P	Z	16:07:35.2	70.2	71.2	1.0	13	5.0		
FUR	e P	Z	16:07:38.2	70.7	70.7	0.9	22	5.3		
IBBN	e P	Z	16:07:42.1	71.4	69.6	1.2	12	4.9		
TNS	e P	Z	16:07:44.1	71.7	69.4	0.9	9	4.9		
STU	e P	Z	16:07:44.4	71.8	69.5	0.4	9	5.2		
BUG	e P	Z	16:07:45.7	72.0	69.0	1.1	12	4.9		
BFO	e P	Z	16:07:48.3	72.5	68.8	1.1	6	4.7		
WLF	e P	Z	16:07:53.9	73.3	67.7	1.1	26	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/02	20:48:10.6	18.560S	174.175E	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPpdf	Z	21:07:37.6	143.9	26.2					
IBBN	e PKPbc	Z	21:07:42.4	144.6	22.6					
TANN	e PKPbc	Z	21:07:42.7	145.0	31.2					
MOX	e PKPbc	Z	21:07:42.0	145.0	29.7					
ROTZ	e PKPbc	Z	21:07:45.2	145.6	31.3					
GEC2	e PKPbc	Z	21:07:45.7	145.9	34.4					
WET	e PKPbc	Z	21:07:45.2	145.9	32.8					
GRA1	e PKPbc	Z	21:07:45.6	146.0	29.8					
TNS	e PKPbc	Z	21:07:47.1	146.3	24.9					
RJOB	e PKPbc	Z	21:07:50.1	147.1	33.9					
FUR	e PKPbc	Z	21:07:50.7	147.3	31.1					
STU	e PKPbc	Z	21:07:51.0	147.4	27.2					
WLF	e PKPbc	Z	21:07:51.0	147.4	21.4					
BFO	e PKPbc	Z	21:07:52.5	148.1	26.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/03	00:47:18.2	23.340N	127.590E	33.0N	4.8			SZGRF

Southeast of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	00:59:52.4	84.9	57.5	1.0	19	5.3		
BRG	e P	Z	00:59:55.9	85.7	57.5	0.9	4	4.6		
BSEG	e P	Z	00:59:57.1	85.8	54.9	1.0	8	4.8		
CLL	e P	Z	00:59:57.0	86.0	56.8	0.7	5	4.7		
TANN	e P	Z	01:00:01.4	86.7	56.4	1.0	4	4.5		
NRDL	e P	Z	01:00:01.1	86.8	54.7	1.2	10	4.8		
WERD	e P	Z	01:00:01.5	86.8	56.3	0.9	4	4.5		
GUNZ	e P	Z	01:00:01.4	86.8	56.3	1.0	7	4.7		
NKC	e P	Z	01:00:01.9	86.8	56.4					
WERN	e P	Z	01:00:01.8	86.9	56.3	0.9	6	4.7		
PLN	e P	Z	01:00:01.8	86.9	56.1					
GEC2	e P	Z	01:00:01.3	86.9	57.2	1.0	4	4.4		
CLZ	e P	Z	01:00:02.5	87.0	54.8	1.1	15	5.0		
MOX	e P	Z	01:00:02.2	87.1	55.7	1.0	4	4.5		
WET	e P	Z	01:00:04.0	87.2	56.6	1.6	5	4.6		
ROTZ	e P	Z	01:00:04.0	87.2	56.2	1.1	5	4.8		
GRA1	e P	Z	01:00:06.1	87.8	55.4	1.1	14	5.2		
IBBN	e P	Z	01:00:07.3	88.0	52.8	1.1	16	5.3		
FUR	e P	Z	01:00:10.4	88.6	55.4	1.3	17	5.1		

BUG	e P	Z	01:00:11.0	88.8	52.4			
STU	e P	Z	01:00:14.0	89.4	53.9	0.8	8	5.0
BFO	e P	Z	01:00:17.2	90.1	53.2	1.3	8	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/03	00:52:22.5	20.210S	175.820W	224.9				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e PKPbc	Z	01:11:34.7	145.9	6.2					
BSEG	e PKPbc	Z	01:11:34.9	145.9	10.3					
	e pPKPbc	Z	01:12:31.5							
RUE	e PKPbc	Z	01:11:37.7	146.9	16.6					
NRDL	e PKPbc	Z	01:11:39.0	147.4	10.4					
IBBN	e PKPbc	Z	01:11:40.3	147.8	6.3					
	e PKPab	Z	01:11:42.8							
CLZ	e PKPdf	Z	01:11:37.6	148.0	11.0					
	e PKPbc	Z	01:11:41.1							
CLL	e PKPdf	Z	01:11:37.8	148.1	15.8					
	e PKPbc	Z	01:11:41.1							
	e pPKPbc	Z	01:12:38.1							
BRG	e PKPdf	Z	01:11:38.3	148.4	17.7					
	e PKPbc	Z	01:11:41.9							
	e pPKPbc	Z	01:12:39.1							
BUG	e PKPbc	Z	01:11:42.4	148.7	5.6					
MOX	e PKPbc	Z	01:11:43.4	149.0	13.6					
WERD	e PKPbc	Z	01:11:43.7	149.1	15.0					
	e PKPab	Z	01:11:47.8							
	e pPKPbc	Z	01:12:41.3							
TANN	e PKPdf	Z	01:11:39.7	149.1	15.3					
	e PKPbc	Z	01:11:43.8							
	e PKPab	Z	01:11:47.7							
GUNZ	e PKPdf	Z	01:11:40.2	149.2	15.0					
	e PKPbc	Z	01:11:44.2							
WERN	e PKPbc	Z	01:11:44.5	149.2	15.2					
	e PKPab	Z	01:11:49.0							
ROTZ	e PKPbc	Z	01:11:45.6	149.8	15.1					
TNS	e PKPbc	Z	01:11:45.6	149.8	8.0					
	e PKPab	Z	01:11:50.9							
GRA1	e PKPdf	Z	01:11:41.5	150.0	13.3					
	e PKPbc	Z	01:11:46.1							
	e PKPab	Z	01:11:52.2							
WET	e PKPbc	Z	01:11:46.7	150.2	16.6					
	e PKPab	Z	01:11:53.4							
GEC2	e PKPbc	Z	01:11:46.9	150.4	18.3					
WLF	e PKPbc	Z	01:11:47.7	150.5	3.8					
	e PKPab	Z	01:11:54.4							

	e pPKPbc	Z	01:12:45.1		
STU	e PKPbc	Z	01:11:48.7	151.2	9.8
FUR	e PKPbc	Z	01:11:49.3	151.5	14.0
	e PKPab	Z	01:11:58.2		
RJOB	e PKPbc	Z	01:11:49.5	151.6	17.2
	e PKPab	Z	01:11:59.1		
BFO	e PKPbc	Z	01:11:49.7	151.7	8.2
	e pPKPbc	Z	01:12:47.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/03	03:53:25.0	5.180S	102.360E	48.7	5.8	4.6		SZGRF
Southern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:06:33.2	93.0	94.4	1.5	134	6.1		
BRG	e P	Z	04:06:33.0	93.0	94.5	0.9	56	6.0		
RUE	e P	Z	04:06:33.9	93.2	94.3	1.1	141	6.3		
RJOB	e P	Z	04:06:34.9	93.5	93.8	0.8	35	5.9		
WET	e P	Z	04:06:35.6	93.6	93.8	1.0	68	6.0		
CLL	e P	Z	04:06:35.3	93.6	93.7	1.1	37	5.7		
RGN	e P	Z	04:06:35.8	93.7	93.8	1.2	71	6.0		
TANN	e P	Z	04:06:37.1	93.9	93.4	1.3	34	5.5		
WERN	e P	Z	04:06:37.5	94.0	93.3	1.1	30	5.5		
GUNZ	e P	Z	04:06:37.6	94.0	93.3	1.1	39	5.6		
WERD	e P	Z	04:06:37.5	94.0	93.3	1.1	37	5.6		
ROTZ	e P	Z	04:06:38.2	94.1	93.2	1.1	45	5.7		
MOX	e P	Z	04:06:39.6	94.5	92.7	1.3	45	5.6		
FUR	e P	Z	04:06:39.6	94.6	92.7	1.2	57	5.8		
GRA1	e P	Z	04:06:40.9	94.7	92.5	1.0	57	6.0		
	e pP	Z	04:06:55.2							
	e sP	Z	04:07:00.1							
	e S	T	04:17:44.1							
	e L	Z	04:36:45.9			21.5	234		4.6	
CLZ	e P	Z	04:06:43.3	95.3	91.6	1.0	32	5.7		
BSEG	e P	Z	04:06:43.5	95.4	91.4	1.1	41	5.8		
NRDL	e P	Z	04:06:44.1	95.5	91.4	1.0	34	5.7		
STU	e P	Z	04:06:46.3	96.0	91.0	0.8	25	5.8		
TNS	e P	Z	04:06:48.8	96.5	90.3	0.9	92	6.3		
BFO	e P	Z	04:06:48.6	96.5	90.4	1.0	21	5.6		
HLG	e P	Z	04:06:50.4	96.8	89.4	1.2	79	6.2		
IBBN	e P	Z	04:06:50.4	96.9	89.5	1.0	35	5.9		
BUG	e P	Z	04:06:51.7	97.2	89.3	1.1	23	5.7		
WLF	e P	Z	04:06:55.6	98.0	88.6	1.3	33	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/05/03 18:23:12.2 74.369N 61.530W 33.0N 4.4 SZGRF  
 Baffin Bay

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:30:29.0	38.2	335.4	1.5	11	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/03	19:01:46.3	6.600S	155.100E	35.0		5.4		NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 19:20:43.2	124.8	44.2					
	e pPKPdf	Z 19:20:53.8							
BRG	e PKPdf	Z 19:20:44.0	125.3	49.7					
	e pPKPdf	Z 19:20:54.6							
CLL	e PKPdf	Z 19:20:44.0	125.4	48.5					
	e pPKPdf	Z 19:20:54.8							
NRDL	e PKPdf	Z 19:20:45.3	125.9	44.7					
CLZ	e PKPdf	Z 19:20:46.2	126.3	45.3					
	e pPKPdf	Z 19:20:56.5							
TANN	e PKPdf	Z 19:20:46.0	126.3	48.4					
	e pPKPdf	Z 19:20:56.9							
MOX	e PKPdf	Z 19:20:46.3	126.5	47.4					
GEC2	e PKPdf	Z 19:20:46.6	126.7	50.6					
ROTZ	e PKPdf	Z 19:20:47.1	126.8	48.5					
	e pPKPdf	Z 19:20:57.5							
WET	e PKPdf	Z 19:20:47.3	126.9	49.6					
	e pPKPdf	Z 19:20:57.9							
IBBN	e PKPdf	Z 19:20:47.5	127.0	42.2					
UBBA	e PKPdf	Z 19:20:47.6	127.1	45.5					
	e pPKPdf	Z 19:20:58.5							
GRA1	e PKPdf	Z 19:20:48.0	127.4	47.4					
	e pPKPdf	Z 19:20:58.1							
	e L	Z 20:20:11.6			21.0	772		5.4	
RJOB	e PKPdf	Z 19:20:48.4	127.9	50.3					
	e pPKPdf	Z 19:20:59.2							
BUG	e PKPdf	Z 19:20:48.9	127.9	42.1					
	e pPKPdf	Z 19:20:59.6							
TNS	e PKPdf	Z 19:20:49.9	128.3	44.1					
FUR	e PKPdf	Z 19:20:49.9	128.4	48.4					
	e pPKPdf	Z 19:21:00.5							
STU	e PKPdf	Z 19:20:51.1	128.9	45.7					
BFO	e PKPdf	Z 19:20:52.2	129.7	45.0					
WLF	e PKPdf	Z 19:20:53.2	129.7	41.7					
	e pPKPdf	Z 19:21:03.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/03	20:11:43.3	80.000N	114.250W	33.0N	4.8			SZGRF

Arctic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:19:36.7	42.4	347.8	0.9	6	4.3		
IBBN	e P	Z	20:19:47.0	43.7	347.7	1.2	13	4.6		
NRDL	e P	Z	20:19:47.7	43.8	348.1	1.2	12	4.5		
BUG	e P	Z	20:19:57.8	44.5	347.8	1.8	33	5.0		
CLZ	e P	Z	20:19:53.2	44.5	348.2	1.0	12	4.8		
CLL	e P	Z	20:19:59.4	45.3	348.8	1.3	12	4.8		
UBBA	e P	Z	20:20:00.4	45.4	348.4	1.8	22	4.9		
MOX	e P	Z	20:20:03.4	45.8	348.7	0.9	7	4.7		
TNS	e P	Z	20:20:03.6	45.8	348.2	1.1	18	5.0		
BRG	e P	Z	20:20:04.0	45.9	349.0	1.3	10	4.7		
WLF	e P	Z	20:20:05.7	46.1	348.0	0.8	9	4.8		
WERD	e P	Z	20:20:05.5	46.1	348.8	0.9	4	4.4		
TANN	e P	Z	20:20:06.2	46.1	348.9	1.1	6	4.6		
GRA1	e P	Z	20:20:10.8	46.7	348.8	1.0	22	5.3		
ROTZ	e P	Z	20:20:11.2	46.8	348.9	1.2	10	4.8		
STU	e P	Z	20:20:16.0	47.3	348.6	1.2	16	5.0		
WET	e P	Z	20:20:16.7	47.4	349.2	1.0	12	5.0		
BFO	e P	Z	20:20:17.8	47.7	348.6	1.0	8	4.8		
GEC2	e P	Z	20:20:19.7	47.8	349.4	1.6	12	4.8		
FUR	e P	Z	20:20:21.5	48.2	349.1	1.5	19	5.0		
RJOB	e P	Z	20:20:27.4	48.8	349.4	1.2	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/03	20:44:19.5	15.100N	94.731E	33.0N	4.7			SZGRF

Near south coast of Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:55:43.3	72.6	87.3	0.8	5	4.7		
GEC2	e P	Z	20:55:44.9	72.8	86.5	0.8	8	4.9		
CLL	e P	Z	20:55:46.4	73.1	86.7	0.9	4	4.5		
WET	e P	Z	20:55:48.0	73.3	86.0	1.4	13	4.9		
TANN	e P	Z	20:55:48.9	73.5	86.1	1.0	3	4.3		
NKC	e P	Z	20:55:49.3	73.6	86.0	0.8	4	4.5		
GUNZ	e P	Z	20:55:49.9	73.6	85.9	1.0	6	4.6		
WERD	e P	Z	20:55:49.6	73.6	86.0	1.0	5	4.5		
PLN	e P	Z	20:55:50.2	73.7	85.8	1.1	30	5.3		
ROTZ	e P	Z	20:55:50.7	73.7	85.7	1.3	8	4.6		
MOX	e P	Z	20:55:52.4	74.0	85.5	0.9	4	4.4		
GRA1	e P	Z	20:55:54.5	74.4	84.9	1.2	10	4.7		
BSEG	e P	Z	20:55:56.1	74.6	85.4	0.9	8	4.7		
CLZ	e P	Z	20:55:56.3	74.7	84.9	0.9	6	4.6		

TNS	e P	Z	20:56:04.4	76.1	83.0	1.2	13	4.9
IBBN	e P	Z	20:56:05.4	76.3	83.0	0.3	12	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/04	11:38:59.3	17.364S	176.993W	468.1				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e PKPbc	Z	11:57:36.0	143.0	7.7					
BSEG	e PKPbc	Z	11:57:35.4	143.0	11.6					
RUE	e PKPbc	Z	11:57:38.3	143.9	17.6					
NRDL	e PKPbc	Z	11:57:40.0	144.4	11.7					
IBBN	e PKPbc	Z	11:57:41.4	144.9	7.9					
CLZ	e PKPbc	Z	11:57:41.6	145.0	12.3					
CLL	e PKPbc	Z	11:57:41.7	145.1	16.8					
	e pPKPbc	Z	11:59:31.4							
BRG	e PKPbc	Z	11:57:42.6	145.4	18.6					
BUG	e PKPbc	Z	11:57:44.3	145.8	7.2					
MOX	e PKPbc	Z	11:57:44.4	146.0	14.8					
UBBA	e PKPbc	Z	11:57:44.6	146.1	12.0					
WERD	e PKPbc	Z	11:57:44.7	146.1	16.0					
	e PKPab	Z	11:57:47.6							
TANN	e PKPbc	Z	11:57:44.9	146.1	16.3					
	e PKPab	Z	11:57:47.7							
	e pPKPbc	Z	11:59:34.6							
GUNZ	e PKPbc	Z	11:57:45.1	146.2	16.1					
	e PKPab	Z	11:57:48.3							
	e pPKPbc	Z	11:59:34.6							
WERN	e PKPbc	Z	11:57:45.6	146.2	16.2					
	e PKPab	Z	11:57:48.6							
ROTZ	e PKPbc	Z	11:57:46.8	146.8	16.2					
TNS	e PKPbc	Z	11:57:47.1	146.9	9.5					
	e PKPab	Z	11:57:51.2							
	e pPKPbc	Z	11:59:37.6							
GRA1	e PKPbc	Z	11:57:47.4	147.0	14.5					
	e PKPab	Z	11:57:51.8							
WET	e PKPbc	Z	11:57:47.7	147.2	17.6					
	e PKPab	Z	11:57:52.6							
GEC2	e PKPbc	Z	11:57:48.2	147.3	19.2					
	e PKPab	Z	11:57:53.2							
	e pPKPbc	Z	11:59:39.4							
WLF	e PKPbc	Z	11:57:49.4	147.6	5.6					
STU	e PKPbc	Z	11:57:50.5	148.2	11.3					
	e PKPab	Z	11:57:56.3							
FUR	e PKPbc	Z	11:57:51.1	148.5	15.2					
	e PKPab	Z	11:57:57.6							
RJOB	e PKPab	Z	11:57:58.2	148.6	18.1					

BFO	e PKPbc	Z	11:57:52.0	148.7	9.8
	e PKPab	Z	11:57:58.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/04	16:05:50.9	30.170N	42.635W	33.0N	4.7	4.0		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 16:13:43.7	42.5	263.8	1.5	16	4.5		
IBBN	e P	Z 16:13:45.7	42.7	259.1	1.6	24	4.7		
NRDL	e P	Z 16:13:57.6	44.2	261.0	1.4	17	4.6		
GRA1	e P	Z 16:13:59.6	44.5	264.8	2.1	38	5.0		
	e L	Z 16:29:50.7			18.1	165		4.0	
BSEG	e P	Z 16:14:00.5	44.5	259.7	1.4	28	5.0		
ROTZ	e P	Z 16:14:05.8	45.2	265.5	1.5	7	4.4		
WET	e P	Z 16:14:09.0	45.5	266.7	2.1	21	4.8		
CLL	e P	Z 16:14:10.4	45.8	264.7	1.5	11	4.7		
GEC2	e P	Z 16:14:12.4	46.1	267.6	2.1	27	4.9		
BRG	e P	Z 16:14:15.3	46.3	265.9	1.8	15	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/05	00:08:55.4	21.580S	169.190E	103.2				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 00:28:27.6	145.0	40.9					
CLZ	e PKPbc	Z 00:28:29.7	145.6	36.5					
TANN	e PKPbc	Z 00:28:30.8	145.9	40.9					
WERD	e PKPbc	Z 00:28:30.6	145.9	40.6					
	e pPKPbc	Z 00:28:58.1							
GUNZ	e PKPbc	Z 00:28:31.4	146.0	40.8					
WERN	e PKPbc	Z 00:28:31.2	146.0	40.9					
	e pPKPbc	Z 00:28:59.1							
MOX	e PKPbc	Z 00:28:31.2	146.0	39.4					
IBBN	e PKPbc	Z 00:28:31.4	146.1	32.1					
ROTZ	e PKPbc	Z 00:28:33.2	146.5	41.2					
	e pPKPbc	Z 00:29:01.5							
GEC2	e PKPbc	Z 00:28:32.0	146.5	44.3					
UBBA	e PKPbc	Z 00:28:33.0	146.5	36.8					
	e pPKPbc	Z 00:29:00.1							
WET	e PKPbc	Z 00:28:33.4	146.6	42.8					
GRA1	e PKPbc	Z 00:28:33.8	146.9	39.8					
BUG	e PKPbc	Z 00:28:34.3	147.0	32.0					
TNS	e PKPbc	Z 00:28:36.6	147.6	34.9					
	e pPKPbc	Z 00:29:05.2							

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RJOB	e	PKPbc	Z	00:28:37.3	147.7	44.2
STU	e	PKPbc	Z	00:28:39.4	148.5	37.5
	e	pPKPbc	Z	00:29:07.5		
WLF	e	PKPbc	Z	00:28:40.2	148.9	31.7
	e	pPKPbc	Z	00:29:07.8		
BFO	e	PKPbc	Z	00:28:40.3	149.2	36.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/05	00:27:0.9	36.730N	141.880E	33.0N	5.2	4.7		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:39:10.4	80.2	37.5	1.0	24	5.2		
BRG	e P	Z 00:39:15.4	81.2	39.8	0.8	14	5.2		
CLL	e P	Z 00:39:15.3	81.2	39.1	0.8	25	5.4		
NRDL	e P	Z 00:39:16.5	81.4	37.2	0.9	9	4.9		
CLZ	e P	Z 00:39:19.2	81.8	37.3	1.0	19	5.2		
TANN	e P	Z 00:39:20.2	82.1	38.7	0.8	5	4.6		
MOX	e P	Z 00:39:21.0	82.3	38.1	0.8	10	5.1		
IBBN	e P	Z 00:39:22.1	82.4	35.5	0.5	30	5.8		
ROTZ	e P	Z 00:39:23.9	82.8	38.5	0.8	12	5.1		
UBBA	e P	Z 00:39:23.4	82.8	37.0	0.7	4	4.8		
GEC2	e P	Z 00:39:24.0	82.9	39.4	0.7	11	5.2		
WET	e P	Z 00:39:25.0	83.0	38.9	0.8	8	5.0		
GRA1	e P	Z 00:39:26.6	83.2	37.8	0.9	37	5.6		
	e L	Z 01:22:11.2			18.7	306		4.7	
BUG	e P	Z 00:39:26.2	83.3	35.1	0.7	8	5.1		
TNS	e P	Z 00:39:29.3	83.9	35.8	1.2	19	5.2		
FUR	e P	Z 00:39:32.2	84.4	37.7	0.8	31	5.6		
STU	e P	Z 00:39:33.8	84.7	36.3	0.8	32	5.6		
BFO	e P	Z 00:39:37.0	85.4	35.6	0.9	23	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/05	02:50:31.3	23.215S	174.459E	35.0		4.9		SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 03:10:10.1	147.0	27.5					
NRDL	e PKPbc	Z 03:10:13.7	148.4	28.2					
CLL	e PKPbc	Z 03:10:13.8	148.5	34.0					
BRG	e PKPbc	Z 03:10:14.1	148.5	35.9					
CLZ	e PKPbc	Z 03:10:15.4	148.9	29.2					
IBBN	e PKPbc	Z 03:10:15.9	149.2	24.4					
TANN	e PKPbc	Z 03:10:16.6	149.4	33.9					
MOX	e PKPbc	Z 03:10:16.7	149.5	32.3					

UBBA	e	PKPbc	Z	03:10:17.5	149.9	29.4						
ROTZ	e	PKPbc	Z	03:10:17.9	150.0	34.1						
BUG	e	PKPbc	Z	03:10:18.5	150.1	24.1						
GEC2	e	PKPbc	Z	03:10:18.1	150.2	37.6						
WET	e	PKPbc	Z	03:10:18.5	150.3	35.9						
GRA1	e	PKPbc	Z	03:10:19.1	150.4	32.5						
	e	L	Z	04:18:05.4			21.3		216		4.9	
TNS	e	PKPbc	Z	03:10:20.3	150.9	27.2						
FUR	e	PKPbc	Z	03:10:21.9	151.7	34.1						
STU	e	PKPbc	Z	03:10:22.8	151.9	29.8						
WLF	e	PKPbc	Z	03:10:23.2	152.0	23.4						
BFO	e	PKPbc	Z	03:10:23.8	152.6	28.6						

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/05

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 19:09:48.8							
	e Sn	E 19:10:31.3							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/05 19:50:16.8  
Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 20:09:51.5	145.7	4.9					
IBBN	e PKPbc	Z 20:09:52.8	145.9	0.9					
	e pPKPbc	Z 20:10:16.2							
CLZ	e PKPbc	Z 20:09:53.7	146.3	5.4					
	e pPKPbc	Z 20:10:17.2							
CLL	e PKPbc	Z 20:09:54.2	146.6	10.0					
	e pPKPbc	Z 20:10:17.8							
NEUB	e PKPbc	Z 20:09:55.3	146.8	8.0					
BRG	e PKPbc	Z 20:09:55.6	146.9	11.8					
	e pPKPbc	Z 20:10:19.0							
MOX	e PKPbc	Z 20:09:56.9	147.4	7.8					
WERD	e PKPbc	Z 20:09:57.3	147.5	9.1					
TANN	e PKPbc	Z 20:09:57.3	147.5	9.3					
GUNZ	e PKPbc	Z 20:09:58.0	147.6	9.1					
WERN	e PKPbc	Z 20:09:57.9	147.7	9.2					
ROTZ	e PKPbc	Z 20:09:59.4	148.2	9.1					
GRA1	e PKPbc	Z 20:09:59.6	148.4	7.3					
GEC2	e PKPbc	Z 20:10:00.9	148.9	12.0					
BFO	e PKPbc	Z 20:10:03.4	149.9	2.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/05	21:57:55.1	27.450N	52.690E	33.0N	5.3	4.1		SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:05:00.5	36.8	111.1	1.7	71	5.2		
	e PcP	Z	22:07:21.4							
RJOB	e P	Z	22:05:02.6	37.0	108.8	1.6	63	5.2		
	e PP	Z	22:06:24.6							
WET	e PcP	Z	22:07:21.2							
	e P	Z	22:05:05.2	37.4	110.6	1.5	68	5.3		
BRG	e PcP	Z	22:07:22.8							
	e P	Z	22:05:05.0	37.4	113.9	1.3	52	5.2		
ROTZ	e PcP	Z	22:07:22.0							
	e P	Z	22:05:11.2	38.0	110.7	1.1	63	5.3		
FUR	e P	Z	22:05:11.7	38.1	107.8	1.3	167	5.6		
TANN	e P	Z	22:05:11.0	38.1	111.7	1.9	54	5.0		
WERN	e P	Z	22:05:11.5	38.1	111.5					
CLL	e P	Z	22:05:11.2	38.1	113.4	1.0	72	5.3		
	e PcP	Z	22:07:24.5							
GUNZ	e P	Z	22:05:11.9	38.2	111.5	1.9	108	5.3		
RUE	e P	Z	22:05:11.3	38.2	115.6	1.4	129	5.5		
WERD	e P	Z	22:05:11.7	38.2	111.6	1.6	33	4.8		
	e PP	Z	22:06:38.9							
GRA1	e P	Z	22:05:15.9	38.6	109.6	1.3	182	5.6		
	e L	Z	22:22:19.9			22.0	329		4.1	
MOX	e P	Z	22:05:16.2	38.7	111.1	1.3	44	5.0		
	e PcP	Z	22:07:27.0							
STU	e P	Z	22:05:23.4	39.6	106.4	1.2	33	4.9		
UBBA	e P	Z	22:05:24.8	39.7	109.6	1.4	60	5.0		
	e PP	Z	22:06:53.7							
CLZ	e P	Z	22:05:26.2	39.8	111.2	1.3	229	5.6		
	e PcP	Z	22:07:30.4							
BFO	e P	Z	22:05:27.1	40.0	105.1	1.4	25	4.7		
NRDL	e P	Z	22:05:29.6	40.2	111.6	1.2	230	5.7		
	e PP	Z	22:07:04.1							
BSEG	e PcP	Z	22:07:32.1							
	e P	Z	22:05:32.2	40.7	113.4	1.4	115	5.3		
IBBN	e P	Z	22:05:40.4	41.5	109.0	1.1	161	5.7		
	e PcP	Z	22:07:35.0							
BUG	e P	Z	22:05:40.6	41.5	107.5	1.4	194	5.6		
	e PP	Z	22:07:12.1							
WLF	e PcP	Z	22:07:35.9							
	e P	Z	22:05:41.8	41.7	104.5	1.2	68	5.3		
	e PP	Z	22:07:13.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:57:06.5			1.8	32			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/06	02:07:19.2	24.360S	179.630E	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:27:04.0	149.4	19.4					
CLL	e PKPbc	Z 02:27:08.8	151.2	25.9					
BRG	e PKPbc	Z 02:27:09.4	151.3	27.9					
CLZ	e PKPbc	Z 02:27:08.7	151.3	20.7					
TANN	e PKPbc	Z 02:27:11.3	152.1	25.6					
WERD	e PKPbc	Z 02:27:11.0	152.1	25.3					
MOX	e PKPbc	Z 02:27:11.1	152.1	23.9					
GUNZ	e PKPbc	Z 02:27:11.5	152.2	25.4					
WERN	e PKPbc	Z 02:27:11.4	152.3	25.6					
UBBA	e PKPbc	Z 02:27:12.5	152.4	20.7					
GEC2	e PKPbc	Z 02:27:13.6	153.1	29.4					
RJOB	e PKPbc	Z 02:27:15.7	154.4	28.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/06	05:25:39.9	35.315N	81.240E	33.0N	4.8	4.3		SZGRF
Southern Xinjiang, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:34:28.0	49.7	80.9	0.9	12	5.0		
GEC2	e P	Z 05:34:31.7	50.2	79.1	1.2	12	4.8		
CLL	e P	Z 05:34:31.3	50.2	80.6	0.9	7	4.7		
WET	e P	Z 05:34:35.4	50.6	78.8	1.0	9	4.7		
TANN	e P	Z 05:34:35.3	50.7	79.5	1.0	7	4.6		
ROTZ	e P	Z 05:34:37.8	51.0	78.8	1.1	13	4.8		
MOX	e P	Z 05:34:39.2	51.2	79.1	1.0	5	4.5		
BSEG	e P	Z 05:34:41.4	51.4	80.8	1.1	14	4.8		
GRA1	e P	Z 05:34:43.3	51.6	78.1	1.3	34	5.1		
	e L	Z 05:57:55.8			19.9	261		4.3	
CLZ	e P	Z 05:34:43.4	51.7	79.2	1.0	16	4.9		
FUR	e P	Z 05:34:45.0	51.9	77.0	0.9	33	5.3		
UBBA	e P	Z 05:34:46.3	52.1	78.2	0.8	5	4.5		
BUG	e P	Z 05:34:58.1	53.7	76.8	1.0	14	4.8		



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/06	08:46:56.7	52.296N	37.987W	33.0N	5.0	4.6		SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:53:06.9	30.5	294.1	1.2	22	5.0		
	e L	Z 09:03:40.5			18.8	1413		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/06	10:06:34.6	20.997S	168.581E	35.5				SZGRF

Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 10:26:00.6	143.1	35.2					
BRG	e PKPbc	Z 10:26:03.6	144.1	43.0					
	e pPKPbc	Z 10:26:14.2							
CLL	e PKPbc	Z 10:26:04.0	144.2	41.3					
NEUB	e PKPbc	Z 10:26:06.1	144.8	39.6					
CLZ	e PKPbc	Z 10:26:06.5	144.8	37.0					
TANN	e PKPbc	Z 10:26:06.5	145.1	41.3					
	e pPKPbc	Z 10:26:17.2							
WERD	e PKPbc	Z 10:26:06.7	145.1	41.1					
	e pPKPbc	Z 10:26:17.2							
GUNZ	e PKPbc	Z 10:26:06.6	145.2	41.2					
WERN	e PKPbc	Z 10:26:07.3	145.2	41.3					
MOX	e PKPbc	Z 10:26:07.1	145.3	39.9					
IBBN	e PKPbc	Z 10:26:07.9	145.4	32.6					
ROTZ	e PKPbc	Z 10:26:08.2	145.7	41.6					
	e pPKPbc	Z 10:26:19.7							
GEC2	e PKPbc	Z 10:26:08.3	145.7	44.7					
UBBA	e PKPbc	Z 10:26:09.6	145.8	37.3					
WET	e PKPbc	Z 10:26:09.2	145.9	43.2					
GRA1	e PKPbc	Z 10:26:10.5	146.2	40.2					
BUG	e PKPbc	Z 10:26:10.3	146.2	32.6					
TNS	e PKPbc	Z 10:26:11.9	146.8	35.5					
STU	e PKPbc	Z 10:26:15.2	147.7	38.0					
BFO	e PKPbc	Z 10:26:16.0	148.4	37.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/06	12:42:14.3	20.540S	171.640E	33.0N		5.2		SZGRF

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e	PKPbc	Z	13:01:46.1	145.0	38.3				
CLL	e	PKPbc	Z	13:01:46.1	145.0	36.5				
NRDL	e	PKPbc	Z	13:01:46.9	145.0	31.1				
CLZ	e	PKPbc	Z	13:01:48.6	145.5	32.0				
IBBN	e	PKPbc	Z	13:01:49.8	145.9	27.6				
TANN	e	PKPbc	Z	13:01:49.8	145.9	36.4				
MOX	e	PKPbc	Z	13:01:50.1	146.0	34.9				
UBBA	e	PKPbc	Z	13:01:51.7	146.5	32.3				
ROTZ	e	PKPbc	Z	13:01:52.1	146.5	36.6				
GEC2	e	PKPbc	Z	13:01:51.8	146.6	39.8				
WET	e	PKPbc	Z	13:01:52.6	146.8	38.2				
BUG	e	PKPbc	Z	13:01:52.8	146.8	27.4				
GRA1	e	PKPbc	Z	13:01:53.6	147.0	35.1				
	e	L	Z	14:19:20.6			19.3	387		5.2
TNS	e	PKPbc	Z	13:01:55.2	147.5	30.2				
FUR	e	PKPbc	Z	13:01:58.1	148.2	36.6				
STU	e	PKPbc	Z	13:01:57.7	148.5	32.7				
BFO	e	PKPbc	Z	13:01:59.0	149.1	31.6				

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/06 19:51:17.7 71.290N 11.500W 33.0N 5.0 3.8  
 Jan Mayen Island region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 19:55:46.9	19.8	339.4	2.5	137	4.7		
IBBN	e P	Z 19:55:57.9	20.8	342.7	1.2	39	4.6		
NRDL	e P	Z 19:56:00.2	21.1	340.8	1.9	122	4.9		
BUG	e P	Z 19:56:05.8	21.6	343.7	1.6	84	4.9		
CLZ	e P	Z 19:56:08.2	21.8	341.2	1.8	43	4.6		
UBBA	e P	Z 19:56:18.4	22.7	342.2	2.5	221	5.3		
CLL	e P	Z 19:56:18.7	22.8	339.9	2.2	143	5.1		
TNS	e P	Z 19:56:20.7	23.0	343.7	2.7	364	5.4		
WLF	e P	Z 19:56:22.1	23.1	345.6	2.5	200	5.2		
MOX	e P	Z 19:56:22.7	23.2	341.3	2.4	190	5.2		
BRG	e P	Z 19:56:24.3	23.4	339.7	2.1	91	4.9		
TANN	e P	Z 19:56:26.7	23.5	341.0	2.6	271	5.3		
GRA1	e P	Z 19:56:30.6	24.0	342.3	2.6	396	5.5		
	e S	R 20:00:49.7							
	e L	Z 20:05:13.5			22.0	391		3.8	
ROTZ	e P	Z 19:56:32.0	24.1	341.6	2.5	110	4.9		
BFO	e P	Z 19:56:36.3	24.8	344.9	1.4	29	4.8		
WET	e P	Z 19:56:39.0	24.8	341.6	1.9	32	4.7		
GEC2	e P	Z 19:56:42.4	25.3	341.4	1.1	12	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source

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2008/05/06 20:55:46.7  
Jan Mayen Island region

71.808N 12.892W 33.0N 4.3 3.2 SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 21:00:34.9	21.8	340.8	1.2	21	4.3		
BUG	e P	Z 21:00:39.8	22.2	343.5	1.0	14	4.2		
UBBA	e P	Z 21:00:51.8	23.3	342.2	2.0	26	4.3		
CLL	e P	Z 21:00:52.4	23.5	340.0	1.4	15	4.3		
TNS	e P	Z 21:00:54.2	23.6	343.5	1.3	14	4.4		
MOX	e P	Z 21:00:55.4	23.8	341.3	1.4	9	4.1		
BRG	e P	Z 21:00:58.3	24.1	339.8	1.5	11	4.2		
WERD	e P	Z 21:00:59.5	24.2	341.1	1.5	13	4.2		
TANN	e P	Z 21:00:59.9	24.2	341.0	1.6	16	4.3		
WERN	e P	Z 21:01:01.3	24.3	341.1	1.6	14	4.2		
GRA1	e P	Z 21:01:04.8	24.7	342.2	2.1	58	4.7		
	e L	Z 21:11:06.3			18.7	87		3.2	
BFO	e P	Z 21:01:11.2	25.4	344.7	1.3	14	4.5		
GEC2	e P	Z 21:01:17.1	26.0	341.4	1.1	3	4.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/06 23:38: 2.1 35.596N 72.232E 33.0N 5.3 SZGRF  
Pakistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:46:19.9	45.7	83.9	1.6	47	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/07 00:44: 5.1 71.647N 12.984W 64.9 4.1 SZGRF  
Jan Mayen Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:49:18.7	24.6	341.9	1.3	5	4.1		
	e pP	Z 00:49:34.2							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/07 02:17:11.9 16.640N 120.230E 33.0N 5.1 SZGRF  
Luzon, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:29:55.4	87.0	67.1	0.9	14	5.3		
CLL	e P	Z 02:29:56.8	87.4	66.4	1.0	12	5.0		
BSEG	e P	Z 02:29:59.0	87.7	64.4	0.9	15	5.2		
GEC2	e P	Z 02:29:59.9	87.9	66.8	0.9	10	5.0		

TANN	e P	Z	02:30:00.2	88.0	65.9	1.2	9	4.9
WET	e P	Z	02:30:01.7	88.3	66.2	1.3	11	4.9
MOX	e P	Z	02:30:02.1	88.4	65.3	1.0	7	4.8
ROTZ	e P	Z	02:30:02.7	88.4	65.7	1.1	14	5.1
NRDL	e P	Z	02:30:02.5	88.5	64.2	1.1	9	4.9
CLZ	e P	Z	02:30:03.3	88.6	64.3	1.7	34	5.3
GRA1	e P	Z	02:30:05.2	89.1	65.0	1.1	12	5.1
UBBA	e P	Z	02:30:07.2	89.3	64.0	1.8	23	5.2
FUR	e P	Z	02:30:08.2	89.7	65.0	1.0	20	5.4
IBBN	e P	Z	02:30:08.8	89.8	62.3	1.1	14	5.2
TNS	e P	Z	02:30:11.5	90.4	62.8	1.4	18	5.2
BUG	e P	Z	02:30:11.9	90.5	61.9	1.0	11	5.2
STU	e P	Z	02:30:12.4	90.6	63.4	1.0	15	5.3
BFO	e P	Z	02:30:15.3	91.4	62.8	1.0	7	5.0
WLF	e P	Z	02:30:19.1	92.0	61.1	1.1	15	5.3

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/07 08:00:5.5 45.432N 32.627E 33.0N 4.2 3.5 ML SZGRF  
 Crimea, Ukraine, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	08:03:16.4	13.3	97.7	1.6	70			
BRG	e P	Z	08:03:19.2	13.6	106.4	0.9	26			
WET	e P	Z	08:03:25.5	13.9	98.0	1.4	37			
CLL	e P	Z	08:03:29.0	14.2	106.7	1.0	28			
TANN	e P	Z	08:03:32.8	14.3	102.5	0.8	19			
ROTZ	e P	Z	08:03:32.3	14.4	99.7	0.7	10			
FUR	e P	Z	08:03:37.8	14.8	92.6	1.6	130			
MOX	e P	Z	08:03:37.9	14.9	102.3	1.2	21			
GRA1	e P	Z	08:03:40.7	15.0	98.3	1.1	59			
	e L	Z	08:09:02.5			20.1	360		3.5	
CLZ	e P	Z	08:03:50.7	16.0	104.9	1.0	59			
NRDL	e P	Z	08:03:55.1	16.3	106.7	1.0	120			
BSEG	e P	Z	08:03:58.6	16.6	111.6	0.9	84			
BFO	e P	Z	08:04:05.2	16.8	90.8	1.2	25	4.2		
TNS	e P	Z	08:04:04.5	16.8	97.2	1.3	46			
IBBN	e P	Z	08:04:16.3	17.6	103.0	0.8	72			
BUG	e P	Z	08:04:16.9	17.8	99.8	0.9	32			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/07 08:52:54.7 19.370S 179.110W 33.0G ML SZGRF  
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	09:12:26.1	144.7	15.5					

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NRDL	e	PKPbc	Z	09:12:30.4	146.1	15.7
IBBN	e	PKPbc	Z	09:12:32.9	146.6	11.8
CLL	e	PKPbc	Z	09:12:32.6	146.7	21.1
CLZ	e	PKPbc	Z	09:12:32.9	146.7	16.4
BRG	e	PKPbc	Z	09:12:33.3	146.8	22.9
MOX	e	PKPbc	Z	09:12:35.2	147.6	19.1
	e	PKPab	Z	09:12:37.6		
TANN	e	PKPbc	Z	09:12:35.5	147.6	20.7
	e	PKPab	Z	09:12:38.0		
ROTZ	e	PKPbc	Z	09:12:37.5	148.3	20.6
	e	PKPab	Z	09:12:40.9		
TNS	e	PKPbc	Z	09:12:38.0	148.6	13.8
	e	PKPab	Z	09:12:41.5		
GRA1	e	PKPbc	Z	09:12:37.8	148.6	18.9
	e	PKPab	Z	09:12:42.0		
WET	e	PKPbc	Z	09:12:39.0	148.7	22.2
	e	PKPab	Z	09:12:42.7		
GEC2	e	PKPbc	Z	09:12:38.1	148.8	23.8
WLF	e	PKPbc	Z	09:12:40.5	149.4	9.8
	e	PKPab	Z	09:12:45.3		
BFO	e	PKPbc	Z	09:12:42.5	150.4	14.3
	e	PKPab	Z	09:12:49.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/07	09:59: 7.7	36.827N	142.033E	33.0N		4.7		SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:11:31.0	83.2	37.6	1.4	14			
	e L	Z 10:54:07.6			18.6	304		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/07	16:02: 7.3	36.397N	141.039E	33.0N	5.9	7.4		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 16:14:14.4	80.2	38.3	1.2	187	5.9		
	e PP	Z 16:17:19.5							
	e S	T 16:24:21.1							
BRG	e P	Z 16:14:19.6	81.1	40.5	1.2	89	5.7		
	e PP	Z 16:17:26.0							
	e S	T 16:24:30.6							
CLL	e P	Z 16:14:19.8	81.2	39.9	1.1	151	5.9		
	e PP	Z 16:17:25.3							
	e S	T 16:24:30.3							

NRDL	e P	Z	16:14:20.7	81.4	38.0	1.3	80	5.7
	e PP	Z	16:17:30.0					
	e S	T	16:24:30.7					
CLZ	e P	Z	16:14:23.1	81.8	38.1	1.3	190	6.1
	e PP	Z	16:17:33.1					
	e S	T	16:24:36.4					
TANN	e P	Z	16:14:24.5	82.1	39.4	1.4	59	5.5
	e S	T	16:24:40.4					
MOX	e P	Z	16:14:25.3	82.3	38.9	1.4	92	5.8
	e PP	Z	16:17:35.7					
	e S	T	16:24:41.6					
IBBN	e P	Z	16:14:26.4	82.4	36.2	0.9	105	6.1
	e S	T	16:24:42.9					
ROTZ	e P	Z	16:14:28.2	82.7	39.2	1.3	150	6.1
	e S	T	16:24:46.4					
UBBA	e P	Z	16:14:27.8	82.8	37.7	1.4	57	5.6
	e S	T	16:24:44.6					
GEC2	e P	Z	16:14:28.3	82.8	40.2	1.2	72	5.8
	e S	T	16:24:49.0					
WET	e P	Z	16:14:29.0	82.9	39.6	1.3	98	5.9
	e S	T	16:24:50.5					
GRA1	e P	Z	16:14:30.4	83.2	38.5	1.3	359	6.4
	e PP	Z	16:17:48.5					
	e PPP	Z	16:19:42.7					
	e S	T	16:24:52.2					
	e SS	T	16:30:09.1					
BUG	e L	Z	17:38:11.2			18.8	151448	7.4
	e P	Z	16:14:30.5	83.3	35.8	1.4	108	5.9
	e S	T	16:24:51.5					
TNS	e P	Z	16:14:33.4	83.8	36.6	1.3	145	6.0
	e S	T	16:24:56.7					
FUR	e P	Z	16:14:36.1	84.3	38.4	1.2	156	6.1
	e S	T	16:24:59.3					
STU	e P	Z	16:14:37.9	84.7	37.0	1.2	193	6.2
	e S	T	16:25:03.1					
WLF	e P	Z	16:14:40.3	85.1	34.9	1.4	167	6.1
	e S	T	16:25:07.3					
BFO	e P	Z	16:14:41.5	85.4	36.4	1.1	150	6.0
	e PP	Z	16:18:01.9					
	e S	T	16:25:12.1					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/07 16:16:40.7 36.150N 140.220E 33.0N 6.2 7.4  
 Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 16:28:49.1	80.1	39.0	1.3	208	6.0		

	e PP	Z	16:31:53.0							
BRG	e P	Z	16:28:53.9	81.0	41.2	2.4	566	6.3		
CLL	e P	Z	16:28:53.9	81.1	40.6	1.5	187	6.0		
	e PP	Z	16:32:00.2							
NRDL	e P	Z	16:28:55.2	81.3	38.7	2.1	302	6.0		
	e PP	Z	16:32:02.9							
CLZ	e P	Z	16:28:57.6	81.7	38.8	1.4	216	6.2		
	e PP	Z	16:32:05.4							
TANN	e P	Z	16:28:58.9	82.0	40.1	2.8	644	6.4		
MOX	e P	Z	16:28:59.9	82.1	39.6	2.1	350	6.2		
IBBN	e P	Z	16:29:00.6	82.3	36.9	1.5	202	6.1		
ROTZ	e P	Z	16:29:02.6	82.6	39.9	1.8	424	6.4		
GEC2	e P	Z	16:29:02.6	82.6	40.9	2.2	274	6.1		
UBBA	e P	Z	16:29:01.9	82.7	38.4	2.2	329	6.2		
WET	e P	Z	16:29:03.3	82.8	40.3	2.2	372	6.2		
	e PP	Z	16:32:12.3							
GRA1	e P	Z	16:29:04.7	83.0	39.2	1.7	673	6.6		
	e PP	Z	16:32:15.1							
	e L	Z	17:38:11.2			18.8	151448		7.4	
BUG	e P	Z	16:29:04.8	83.2	36.5	1.9	315	6.2		
TNS	e P	Z	16:29:07.8	83.7	37.3	2.3	691	6.5		
FUR	e P	Z	16:29:10.9	84.2	39.1	2.5	1038	6.6		
STU	e P	Z	16:29:12.2	84.6	37.7	1.3	203	6.1		
WLF	e P	Z	16:29:14.3	85.1	35.6	1.7	367	6.2		
BFO	e P	Z	16:29:15.3	85.3	37.1	1.5	212	6.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/07 16:24:16.0 36.740N 140.540E 33.0N 5.1  
 Near east coast of eastern Honshu, Japan SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	16:36:22.7	79.7	38.5	0.9	11	4.8		
BRG	e P	Z	16:36:27.3	80.6	40.7	1.0	7	4.7		
CLL	e P	Z	16:36:27.6	80.7	40.1	1.0	18	5.0		
CLZ	e P	Z	16:36:31.1	81.3	38.3	1.2	16	5.0		
IBBN	e P	Z	16:36:33.9	81.9	36.4	0.9	17	5.2		
ROTZ	e P	Z	16:36:36.2	82.2	39.4	1.8	34	5.3		
GEC2	e P	Z	16:36:36.1	82.3	40.3	0.7	4	4.7		
GRA1	e P	Z	16:36:38.4	82.7	38.7	1.3	41	5.5		
TNS	e P	Z	16:36:41.1	83.3	36.8	1.1	13	5.1		
STU	e P	Z	16:36:46.2	84.2	37.2	1.2	28	5.4		
WLF	e P	Z	16:36:49.0	84.7	35.1	0.9	12	5.1		
BFO	e P	Z	16:36:48.9	84.9	36.6	1.1	18	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source

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24

2008/05/07 16:43:58.4

71.390N

12.060W

33.0N

4.9

SZGRF

Jan Mayen Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 16:48:30.1	20.0	339.2	1.4	39	4.4		
IBBN	e P	Z 16:48:41.3	21.0	342.4	1.5	53	4.7		
NRDL	e P	Z 16:48:43.4	21.3	340.6	1.9	149	5.0		
BUG	e P	Z 16:48:48.4	21.8	343.4	1.3	73	5.0		
CLZ	e P	Z 16:48:50.7	22.0	341.0	1.7	41	4.6		
UBBA	e P	Z 16:49:00.2	22.9	342.0	2.1	148	5.1		
CLL	e P	Z 16:49:01.8	23.0	339.8	1.7	77	5.0		
TNS	e P	Z 16:49:03.0	23.1	343.5					
WLF	e P	Z 16:49:04.3	23.3	345.4	1.8	100	5.0		
MOX	e P	Z 16:49:05.0	23.3	341.1	2.5	230	5.3		
BRG	e P	Z 16:49:07.3	23.6	339.6					
TANN	e P	Z 16:49:08.8	23.7	340.8	2.5	259	5.3		
GRA1	e P	Z 16:49:12.8	24.2	342.1	2.0	134	5.1		
ROTZ	e P	Z 16:49:14.4	24.3	341.4	1.5	29	4.6		
BFO	e P	Z 16:49:19.8	24.9	344.7	1.5	52	5.0		
WET	e P	Z 16:49:20.9	25.0	341.5	1.6	29	4.8		
GEC2	e P	Z 16:49:25.4	25.5	341.2	1.5	22	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/07	16:45:23.5	36.885N	141.849E	33.0N	6.5			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 16:57:30.1	80.0	37.4	1.2	451	6.3		
BRG	e P	Z 16:57:35.1	81.1	39.7	1.3	385	6.3		
CLL	e P	Z 16:57:35.0	81.1	39.1	1.3	607	6.5		
NRDL	e P	Z 16:57:36.3	81.3	37.1	1.3	248	6.2		
CLZ	e P	Z 16:57:38.8	81.7	37.3	1.4	609	6.5		
TANN	e P	Z 16:57:40.3	82.0	38.6	1.4	294	6.2		
MOX	e P	Z 16:57:41.0	82.2	38.1	1.5	366	6.3		
IBBN	e P	Z 16:57:41.5	82.3	35.4	1.2	481	6.6		
ROTZ	e P	Z 16:57:43.9	82.6	38.4	1.3	498	6.6		
UBBA	e P	Z 16:57:43.4	82.6	36.9	1.9	464	6.4		
GEC2	e P	Z 16:57:43.6	82.7	39.4	1.1	183	6.2		
WET	e P	Z 16:57:44.7	82.8	38.8	1.2	293	6.4		
GRA1	e P	Z 16:57:46.2	83.1	37.7	1.4	1375	7.0		
	e PP	Z 17:00:55.8							
	e PKKPbc	Z 17:16:15.4							
BUG	e P	Z 16:57:45.9	83.1	35.0	1.5	327	6.3		
TNS	e P	Z 16:57:49.0	83.7	35.8	1.7	550	6.5		
FUR	e P	Z 16:57:51.9	84.3	37.6	1.1	469	6.6		
STU	e P	Z 16:57:53.4	84.6	36.2	1.1	438	6.6		
WLF	e P	Z 16:57:56.1	85.0	34.1	1.6	650	6.6		



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BFO e P Z 16:57:56.7 85.3 35.6 1.2 473 6.5

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/07 17:31:12.7 35.400N 142.290E 33.0N  
Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 17:43:28.9	81.5	37.8					
BRG	e P	Z 17:43:34.1	82.5	40.1					
CLL	e P	Z 17:43:34.0	82.6	39.5					
CLZ	e P	Z 17:43:36.9	83.2	37.7					
TANN	e P	Z 17:43:38.1	83.5	39.1					
MOX	e P	Z 17:43:39.7	83.6	38.5					
ROTZ	e P	Z 17:43:42.2	84.1	38.8					
GEC2	e P	Z 17:43:42.2	84.2	39.8					
WET	e P	Z 17:43:43.1	84.3	39.3					
GRA1	e P	Z 17:43:43.9	84.5	38.1					
BFO	e P	Z 17:43:55.3	86.8	36.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/07 18:19:58.1 36.150N 141.810E 33.0G 5.0  
Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:32:09.8	80.7	37.8	1.1	16	5.0		
BRG	e P	Z 18:32:14.9	81.7	40.1	1.0	11	4.9		
CLL	e P	Z 18:32:14.9	81.7	39.5	1.0	17	5.1		
CLZ	e P	Z 18:32:18.6	82.3	37.6	0.8	11	5.1		
TANN	e P	Z 18:32:19.8	82.6	39.0	1.1	4	4.6		
MOX	e P	Z 18:32:20.6	82.8	38.4	1.2	8	4.8		
IBBN	e P	Z 18:32:21.3	82.9	35.8	0.7	17	5.3		
ROTZ	e P	Z 18:32:23.4	83.2	38.8	1.8	34	5.3		
UBBA	e P	Z 18:32:22.8	83.3	37.3	1.5	9	4.8		
GEC2	e P	Z 18:32:23.2	83.3	39.8	1.0	6	4.8		
WET	e P	Z 18:32:24.1	83.4	39.2	1.2	10	4.9		
GRA1	e P	Z 18:32:25.5	83.7	38.1	1.8	72	5.6		
FUR	e P	Z 18:32:31.5	84.9	38.0	1.0	20	5.3		
WLF	e P	Z 18:32:35.6	85.6	34.5	1.4	14	4.9		
BFO	e P	Z 18:32:36.3	85.9	36.0	1.0	12	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/07 19:20:24.8 36.225N 141.095E 33.0N 5.1  
Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:32:48.8	83.3	38.6	1.7	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/07	19:15:30.1	19.470S	178.020W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	19:35:02.2	144.9	13.8					
NRDL	e PKPbc	Z	19:35:06.7	146.4	13.9					
IBBN	e PKPbc	Z	19:35:08.8	146.9	10.0					
CLZ	e PKPbc	Z	19:35:09.4	147.0	14.6					
CLL	e PKPbc	Z	19:35:08.8	147.0	19.3					
BRG	e PKPbc	Z	19:35:09.7	147.2	21.1					
MOX	e PKPbc	Z	19:35:11.6	147.9	17.3					
TANN	e PKPbc	Z	19:35:11.9	148.0	18.9					
ROTZ	e PKPbc	Z	19:35:13.9	148.6	18.8					
TNS	e PKPbc	Z	19:35:14.4	148.8	11.8					
GRA1	e PKPbc	Z	19:35:14.7	148.9	17.0					
WET	e PKPbc	Z	19:35:15.1	149.1	20.3					
GEC2	e PKPbc	Z	19:35:15.2	149.1	21.9					
WLF	e PKPbc	Z	19:35:16.8	149.6	7.8					
STU	e PKPbc	Z	19:35:17.8	150.1	13.8					
BFO	e PKPbc	Z	19:35:18.7	150.7	12.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/07	19:50:52.2	27.520N	56.190E	36.4	4.5			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:58:15.2	38.9	107.5	1.3	17	4.5		
	e pP	Z	19:58:24.7							
BRG	e P	Z	19:58:18.7	39.4	110.1	1.1	5	4.1		
WET	e P	Z	19:58:20.1	39.5	107.0	1.5	17	4.4		
	e pP	Z	19:58:30.1							
ROTZ	e P	Z	19:58:25.3	40.1	107.0	1.4	12	4.3		
	e pP	Z	19:58:34.7							
CLL	e P	Z	19:58:25.4	40.1	109.6	1.1	18	4.6		
	e pP	Z	19:58:35.0							
GRA1	e P	Z	19:58:30.2	40.7	106.0	1.3	26	4.8		
	e pP	Z	19:58:40.3							
STU	e P	Z	19:58:37.7	41.7	103.1	0.7	12	4.8		
UBBA	e P	Z	19:58:39.7	41.8	106.0	1.4	8	4.3		
CLZ	e P	Z	19:58:39.4	41.8	107.5	1.1	19	4.7		

	e pP	Z	19:58:48.7						
NRDL	e P	Z	19:58:42.0	42.2	107.9	1.3	13	4.5	
BSEG	e P	Z	19:58:44.5	42.5	109.6	0.9	7	4.4	
	e pP	Z	19:58:54.3						
TNS	e P	Z	19:58:45.5	42.6	103.9	1.4	35	4.9	
IBBN	e P	Z	19:58:52.9	43.5	105.4	1.0	13	4.6	
	e pP	Z	19:59:02.4						
BUG	e P	Z	19:58:53.6	43.6	104.1	1.1	16	4.7	
WLF	e P	Z	19:58:55.8	43.9	101.2	1.6	20	4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	01:25:45.8	17.500S	170.500W	33.2				SZGRF
Tonga Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 01:43:17.7	143.6	1.3					
IBBN	e PKPbc	Z 01:43:23.6	145.2	357.1					
	e pPKPbc	Z 01:43:33.8							
CLL	e PKPbc	Z 01:43:25.5	146.1	6.0					
	e pPKPbc	Z 01:43:35.5							
MOX	e PKPbc	Z 01:43:27.8	146.8	3.7					
WERD	e PKPbc	Z 01:43:28.2	147.0	4.9					
GUNZ	e PKPbc	Z 01:43:28.7	147.1	5.0					
WERN	e PKPbc	Z 01:43:29.1	147.1	5.1					
	e pPKPbc	Z 01:43:38.7							
WLF	e PKPbc	Z 01:43:31.3	147.7	354.0					
GRA1	e PKPbc	Z 01:43:30.8	147.8	3.1					
BFO	e PKPbc	Z 01:43:34.6	149.2	357.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	05:26:30.8	36.133N	143.364E	33.0N	4.8			SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:38:59.8	84.3	37.0	0.9	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	07:02: 2.7	16.750S	174.490W	33.0N				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 07:21:35.0	144.9	12.6					
NEUB	e PKPbc	Z 07:21:36.0	145.2	10.5					

BUG	e	PKPbc	Z	07:21:35.8	145.3	3.0
MOX	e	PKPbc	Z	07:21:37.9	145.8	10.4
WERD	e	PKPbc	Z	07:21:38.4	145.9	11.6
TANN	e	PKPbc	Z	07:21:38.4	145.9	11.9
GUNZ	e	PKPbc	Z	07:21:38.7	145.9	11.7
TNS	e	PKPbc	Z	07:21:40.2	146.4	5.1
GRA1	e	PKPbc	Z	07:21:41.1	146.7	10.0
WLF	e	PKPbc	Z	07:21:42.6	147.1	1.1
GRB5	e	PKPbc	Z	07:21:42.5	147.3	11.0
FUR	e	PKPbc	Z	07:21:45.5	148.2	10.5
BFO	e	PKPbc	Z	07:21:45.3	148.3	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	09:48:36.7				4.7	4.9		SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:01:11.7			0.9	6	4.7		
	e L	Z 10:33:29.4			18.0	404		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	11:31:28.5	6.743N	94.810E	33.0N	5.0	5.4		SZGRF
Nicobar Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:43:38.8	80.7	90.5	1.0	18	5.0		
	e L	Z 12:37:26.5			19.6	1839		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	12:26:26.0	36.200N	22.100E	33.0N	4.8			NOA
Southern Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:30:01.0	15.6	145.6	1.5	136	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	14:12:55.8	51.961N	178.969W	33.0N	5.1			SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:24:51.2	78.0	6.4	1.0	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	17:04:32.7	20.100S	178.000W	542.0				NEIC
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:23:21.3	149.5	17.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z 18:13:42.1							
WET	e Pn	Z 18:13:52.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	21:18:47.4	37.400N	142.350E	33.6	5.0	4.5		SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 21:30:54.4	79.8	36.8	1.1	23	5.0		
	e pP	Z 21:31:04.3							
BRG	e P	Z 21:31:00.0	80.8	39.1	1.0	11	4.8		
CLL	e P	Z 21:30:59.6	80.8	38.5	1.0	17	5.0		
NRDL	e P	Z 21:31:00.5	81.0	36.5	1.2	11	4.9		
CLZ	e P	Z 21:31:02.9	81.4	36.7	1.1	20	5.2		
TANN	e P	Z 21:31:04.6	81.8	38.0	1.3	6	4.6		
WERD	e P	Z 21:31:05.0	81.8	37.9	1.2	9	4.7		
GUNZ	e P	Z 21:31:05.6	81.8	37.9	1.2	10	4.8		
WERN	e P	Z 21:31:05.9	81.9	37.9	1.0	10	4.9		
MOX	e P	Z 21:31:05.6	81.9	37.4	1.0	7	4.7		
IBBN	e P	Z 21:31:06.0	82.0	34.8	1.2	26	5.4		
ROTZ	e P	Z 21:31:08.1	82.4	37.8	1.4	24	5.2		
GEC2	e P	Z 21:31:08.5	82.5	38.7	1.2	7	4.8		
WET	e P	Z 21:31:09.2	82.6	38.2	1.3	9	4.9		
GRA1	e P	Z 21:31:10.5	82.8	37.1	1.1	37	5.5		
	e pP	Z 21:31:19.9							
	e L	Z 22:11:28.9			19.8	189		4.5	
TNS	e P	Z 21:31:13.8	83.4	35.2	1.1	14	5.1		
RJOB	e P	Z 21:31:14.9	83.7	38.0	1.1	11	5.0		
FUR	e P	Z 21:31:16.7	84.0	37.0	1.4	38	5.4		
BFO	e P	Z 21:31:21.3	85.0	35.0	1.1	17	5.1		
	e pP	Z 21:31:31.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	22:43:2.9	36.765N	143.780E	33.0N	5.0			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:55:30.0	83.9	36.4	1.0	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/08	23:21:10.8	36.530N	141.640E	33.0N	5.7	5.7		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	23:33:12.2	78.7	40.0	1.4	170	5.9		
	e S	T	23:43:11.5							
RUE	e P	Z	23:33:19.7	80.1	40.1	1.4	140	5.7		
	e S	T	23:43:25.1							
BSEG	e P	Z	23:33:20.6	80.3	37.8	1.2	91	5.6		
	e S	T	23:43:26.2							
BRG	e P	Z	23:33:25.7	81.3	40.0	1.2	48	5.4		
	e S	T	23:43:36.3							
CLL	e P	Z	23:33:25.6	81.3	39.4	1.0	61	5.6		
NRDL	e P	Z	23:33:26.7	81.5	37.5	1.1	36	5.4		
CLZ	e P	Z	23:33:29.4	81.9	37.6	1.2	87	5.7		
	e S	T	23:43:41.9							
TANN	e P	Z	23:33:30.8	82.2	39.0	1.4	33	5.3		
WERD	e P	Z	23:33:31.0	82.3	38.8	1.2	34	5.3		
GUNZ	e P	Z	23:33:31.3	82.3	38.9	1.2	45	5.5		
WERN	e P	Z	23:33:31.6	82.4	38.9	2.1	153	5.8		
MOX	e P	Z	23:33:31.5	82.4	38.4	1.3	44	5.4		
IBBN	e P	Z	23:33:31.9	82.5	35.7	1.1	66	5.8		
	e S	T	23:43:47.8							
ROTZ	e P	Z	23:33:34.5	82.8	38.7	1.6	141	5.9		
	e S	T	23:43:54.3							
UBBA	e P	Z	23:33:34.0	82.9	37.2	1.6	44	5.4		
GEC2	e P	Z	23:33:34.2	82.9	39.7	1.1	33	5.5		
WET	e P	Z	23:33:35.2	83.0	39.1	1.8	100	5.7		
	e S	T	23:43:55.2							
GRA1	e P	Z	23:33:36.7	83.3	38.0	1.3	186	6.2		
	e S	T	23:43:57.8							
BUG	e P	Z	23:33:36.3	83.4	35.3	2.0	176	5.9		
	e S	T	23:43:57.8							
TNS	e P	Z	23:33:39.6	83.9	36.1	1.3	73	5.7		
RJOB	e P	Z	23:33:41.0	84.2	39.0	1.2	48	5.6		
	e S	T	23:43:59.9							

FUR	e P	Z	23:33:42.3	84.5	38.0	1.1	82	5.9
STU	e P	Z	23:33:43.9	84.8	36.5	1.0	90	5.9
WLF	e P	Z	23:33:46.4	85.2	34.4	1.5	131	5.9
BFO	e P	Z	23:33:47.2	85.5	35.9	1.1	71	5.7
GRA1	e L	Z	00:18:26.8	83.3	38.0	18.2	2912	5.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/09 21:51:31.1 12.318N 139.248E 93.2 NEIC  
 Western Caroline Islands, Micronesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e Pdiff	Z	22:05:18.4	100.9	50.7					
	e SKSac	R	22:15:47.3							
	e PS	R	22:18:24.8							
CLL	e Pdiff	Z	22:05:20.6	101.2	53.4					
	e pPdiff	Z	22:05:45.6							
	e SKSac	R	22:15:48.7							
NRDL	e PS	R	22:18:28.5	101.9	50.7					
	e Pdiff	Z	22:05:23.6							
	e SKSac	R	22:15:51.7							
TANN	e PS	R	22:18:35.3	102.0	53.1					
	e Pdiff	Z	22:05:24.7							
	e SKSac	R	22:15:54.0							
CLZ	e PS	R	22:18:37.7	102.2	51.1					
	e Pdiff	Z	22:05:25.3							
	e SKSac	R	22:15:53.9							
GEC2	e PS	R	22:18:38.3	102.3	54.5					
	e Pdiff	Z	22:05:26.4							
	e SKSac	R	22:15:55.4							
MOX	e PS	R	22:18:41.9	102.3	52.4					
	e Pdiff	Z	22:05:25.9							
	e SKSac	R	22:15:54.7							
ROTZ	e PS	R	22:18:40.3	102.5	53.0					
	e Pdiff	Z	22:05:27.6							
	e pPdiff	Z	22:05:52.7							
WET	e SKSac	R	22:15:57.4	102.6	53.7					
	e PS	R	22:18:43.6							
	e Pdiff	Z	22:05:27.7							
UBBA	e SKSac	R	22:15:57.0	103.0	50.9					
	e PS	R	22:18:44.2							
	e Pdiff	Z	22:05:28.9							
GRA1	e pPdiff	Z	22:05:53.4	103.1	52.2					
	e SKSac	R	22:15:57.8							
	e PS	R	22:18:47.0							
GRA1	e Pdiff	Z	22:05:29.9	103.1	52.2					
	e pPdiff	Z	22:05:55.1							
	e SKSac	R	22:15:59.1							

	e PS	R	22:18:48.7		
IBBN	e Pdiff	Z	22:05:28.6	103.1	48.7
	e SKSac	R	22:15:57.1		
	e PS	R	22:18:47.1		
RJOB	e Pdiff	Z	22:05:32.1	103.4	53.9
	e SKSac	R	22:15:59.4		
	e PS	R	22:18:54.7		
BUG	e Pdiff	Z	22:05:32.0	103.9	48.4
	e SKSac	R	22:16:01.7		
	e PS	R	22:18:55.2		
FUR	e Pdiff	Z	22:05:34.3	104.0	52.5
	e SKSac	R	22:16:01.8		
	e PS	R	22:18:59.1		
TNS	e Pdiff	Z	22:05:34.1	104.2	49.7
	e SKSac	R	22:16:04.1		
	e PS	R	22:18:59.1		
STU	e Pdiff	Z	22:05:36.6	104.7	50.6
	e SKSac	R	22:16:05.6		
	e PS	R	22:19:04.7		
BFO	e Pdiff	Z	22:05:39.7	105.4	50.0
	e SKSac	R	22:16:08.5		
	e PS	R	22:19:11.9		
WLF	e Pdiff	Z	22:05:40.9	105.6	47.8
	e pPdiff	Z	22:06:05.3		
	e SKSac	R	22:16:10.9		
	e PS	R	22:19:13.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/09 23:10:54.6 19.801S 169.827E 138.5  
 Vanuatu Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	23:30:09.8	143.6	38.6					
TANN	e PKPbc	Z	23:30:12.8	144.5	38.6					
	e pPKPbc	Z	23:30:49.4							
MOX	e PKPbc	Z	23:30:13.2	144.7	37.2					
UBBA	e PKPbc	Z	23:30:14.9	145.1	34.6					
	e pPKPbc	Z	23:30:51.1							
ROTZ	e PKPbc	Z	23:30:15.2	145.1	38.8					
GEC2	e PKPbc	Z	23:30:15.2	145.2	41.9					
	e pPKPbc	Z	23:30:51.7							
WET	e PKPbc	Z	23:30:15.8	145.3	40.4					
BUG	e pPKPbc	Z	23:30:52.5	145.5	29.9					
GRA1	e PKPbc	Z	23:30:16.6	145.6	37.4					
TNS	e pPKPbc	Z	23:30:54.8	146.2	32.7					
RJOB	e PKPbc	Z	23:30:19.1	146.4	41.6					
	e pPKPbc	Z	23:30:55.3							



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FUR	e	PKPbc	Z	23:30:20.2	146.8	38.9
	e	pPKPbc	Z	23:30:56.4		
STU	e	PKPbc	Z	23:30:21.2	147.1	35.1
	e	pPKPbc	Z	23:30:57.4		
WLF	e	PKPbc	Z	23:30:22.7	147.4	29.4
	e	pPKPbc	Z	23:30:59.1		
BFO	e	PKPbc	Z	23:30:22.9	147.8	34.1
	e	pPKPbc	Z	23:30:59.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/09	23:31:57.5	48.180N	156.820E	33.0G	4.9			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 23:43:32.8	74.0	22.5	1.1	6	4.5		
NRDL	e P	Z 23:43:40.2	75.4	22.2	0.8	6	4.6		
CLL	e P	Z 23:43:42.3	75.8	24.0	1.1	17	5.1		
CLZ	e P	Z 23:43:43.2	76.0	22.3	1.2	20	5.1		
TANN	e P	Z 23:43:47.7	76.8	23.5	1.8	19	4.9		
MOX	e P	Z 23:43:47.7	76.8	23.0	1.3	11	4.8		
UBBA	e P	Z 23:43:49.1	77.0	22.0	1.7	26	5.1		
ROTZ	e P	Z 23:43:51.6	77.4	23.3	1.4	15	4.9		
GRA1	e P	Z 23:43:53.2	77.7	22.7	1.0	23	5.3		
WET	e P	Z 23:43:53.6	77.8	23.7	1.1	14	5.0		
GEC2	e P	Z 23:43:54.0	77.9	24.2	1.1	7	4.7		
TNS	e P	Z 23:43:54.2	77.9	21.0	1.3	27	5.2		
STU	e P	Z 23:44:00.8	79.1	21.3	0.7	9	4.9		
RJOB	e P	Z 23:44:01.6	79.1	23.5	0.9	7	4.7		
FUR	e P	Z 23:44:01.0	79.1	22.6	1.4	34	5.2		
BFO	e P	Z 23:44:04.1	79.7	20.7	1.0	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/10	00:01:00.9	42.400N	141.810E	76.3	4.8			SZGRF
Hokkaido, Japan, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 00:12:28.4	73.6	37.1	1.0	20	5.1		
RUE	e P	Z 00:12:36.6	75.1	37.0	0.5	13	5.2		
BSEG	e P	Z 00:12:36.7	75.1	34.9	0.9	10	4.9		
CLL	e P	Z 00:12:43.3	76.3	36.3	1.0	9	4.9		
	e pP	Z 00:13:03.5							
NRDL	e P	Z 00:12:43.3	76.4	34.6	1.2	8	4.7		
CLZ	e P	Z 00:12:46.0	76.8	34.7	0.9	12	5.0		
TANN	e P	Z 00:12:48.5	77.2	35.8	1.2	5	4.5		
IBBN	e P	Z 00:12:49.2	77.3	33.0	0.9	10	5.0		

MOX	e P	Z	00:12:49.1	77.3	35.3	1.1	5	4.6
UBBA	e P	Z	00:12:51.2	77.8	34.3	1.2	9	4.8
ROTZ	e P	Z	00:12:52.2	77.8	35.6	1.2	7	4.7
GEC2	e P	Z	00:12:52.7	78.0	36.4	0.6	2	4.5
WET	e P	Z	00:12:53.1	78.1	36.0	0.9	5	4.6
BUG	e P	Z	00:12:54.3	78.2	32.5	0.6	7	4.9
GRA1	e P	Z	00:12:54.4	78.3	34.9	1.1	18	5.0
TNS	e P	Z	00:12:57.4	78.8	33.2	0.9	10	4.9
RJOB	e P	Z	00:13:00.0	79.3	35.7	0.9	12	4.8
FUR	e P	Z	00:13:01.2	79.5	34.8	0.8	12	4.9
STU	e P	Z	00:13:02.6	79.8	33.5	0.9	14	4.9
	e pP	Z	00:13:23.0					
BFO	e P	Z	00:13:07.1	80.5	32.9	1.1	11	4.8

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/10 03:22:25.0 23.670S 171.060E 32.4  
 Southeast of Loyalty Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	03:42:01.6	146.5	33.1					
CLL	e PKPbc	Z	03:42:05.3	147.6	39.7					
CLZ	e PKPbc	Z	03:42:07.2	148.2	35.1					
	e pPKPbc	Z	03:42:16.9							
TANN	e PKPbc	Z	03:42:07.8	148.5	39.8					
	e pPKPbc	Z	03:42:17.7							
IBBN	e PKPbc	Z	03:42:08.3	148.7	30.4					
MOX	e PKPbc	Z	03:42:07.6	148.7	38.2					
ROTZ	e PKPbc	Z	03:42:09.5	149.1	40.1					
	e pPKPbc	Z	03:42:19.9							
UBBA	e PKPbc	Z	03:42:09.6	149.1	35.4					
GEC2	e PKPbc	Z	03:42:09.6	149.2	43.4					
WET	e PKPbc	Z	03:42:10.2	149.3	41.8					
	e pPKPbc	Z	03:42:19.8							
GRA1	e PKPbc	Z	03:42:10.8	149.6	38.6					
TNS	e PKPbc	Z	03:42:12.5	150.2	33.4					
	e pPKPbc	Z	03:42:22.0							
RJOB	e PKPbc	Z	03:42:12.4	150.4	43.3					
FUR	e PKPbc	Z	03:42:13.8	150.7	40.3					
	e pPKPbc	Z	03:42:23.2							
STU	e PKPbc	Z	03:42:14.4	151.1	36.2					
WLF	e PKPbc	Z	03:42:15.7	151.4	29.9					
BFO	e PKPbc	Z	03:42:15.4	151.8	35.1					
	e pPKPbc	Z	03:42:25.1							

Date Origin Time Lat Long Depth mb Ms ML Source

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2008/05/10 06:16: 8.8  
West of Macquarie Island

54.164S 139.266E 33.0N

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPbc	Z	06:35:45.8	146.6	120.2					
WET	e PKPbc	Z	06:35:47.9	147.2	119.6					
ROTZ	e PKPbc	Z	06:35:50.1	147.9	118.6					
TANN	e PKPbc	Z	06:35:50.4	148.0	117.7					
GUNZ	e PKPbc	Z	06:35:51.4	148.1	117.8					
WERD	e PKPbc	Z	06:35:50.7	148.1	117.6					
GRA1	e PKPbc	Z	06:35:51.6	148.4	118.4					
GRFO	e PKPbc	Z	06:35:51.8	148.4	118.4					
BFO	e PKPbc	Z	06:35:54.1	149.4	119.7					
CLZ	e PKPbc	Z	06:35:55.1	149.8	114.9					

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/10 06:17:42.4 51.854S 138.354E 33.0N  
Western Indian-Antarctic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPbc	Z	06:37:16.6	145.4	116.5					
RJOB	e PKPbc	Z	06:37:16.9	145.4	117.6					
WERN	e PKPbc	Z	06:37:21.4	146.8	114.1					
TANN	e PKPbc	Z	06:37:21.3	146.8	113.9					
GUNZ	e PKPbc	Z	06:37:21.6	146.9	114.0					
WERD	e PKPbc	Z	06:37:21.1	146.9	113.8					
GRA1	e PKPbc	Z	06:37:21.9	147.2	114.5					
GRFO	e PKPbc	Z	06:37:22.8	147.2	114.5					
MOX	e PKPbc	Z	06:37:22.6	147.4	113.3					
BFO	e PKPbc	Z	06:37:25.6	148.4	115.6					
CLZ	e PKPbc	Z	06:37:25.8	148.6	111.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/10 06:19:54.4 52.620S 140.940E 33.0N  
West of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPbc	Z	06:39:33.3	147.1	117.0					
RJOB	e PKPbc	Z	06:39:32.4	147.2	118.3					
WET	e PKPbc	Z	06:39:35.2	147.8	116.3					
ROTZ	e PKPbc	Z	06:39:37.1	148.4	115.2					
TANN	e PKPbc	Z	06:39:38.3	148.6	114.4					
CLL	e PKPbc	Z	06:39:37.1	148.6	113.2					
WERD	e PKPbc	Z	06:39:37.8	148.7	114.3					
GRA1	e PKPbc	Z	06:39:38.7	149.0	115.0					

MOX	e	PKPbc	Z	06:39:38.9	149.1	113.7
RGN	e	PKPbc	Z	06:39:39.3	149.6	108.3
BFO	e	PKPbc	Z	06:39:40.8	150.1	116.3
UBBA	e	PKPbc	Z	06:39:41.9	150.1	112.9
CLZ	e	PKPbc	Z	06:39:41.7	150.3	111.4
BSEG	e	PKPbc	Z	06:39:43.7	151.0	107.8
BUG	e	PKPbc	Z	06:39:46.2	152.0	110.9
IBBN	e	PKPbc	Z	06:39:45.5	152.0	109.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/10	12:21:29.7	50.561N	174.969W	33.0N	4.9			SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 12:33:10.4	75.4	3.5	0.8	15	5.2		
NRDL	e P	Z 12:33:17.9	76.9	3.3	0.9	6	4.7		
IBBN	e P	Z 12:33:19.7	77.1	1.8	0.8	19	5.3		
CLZ	e P	Z 12:33:22.1	77.5	3.5	0.9	13	5.1		
CLL	e P	Z 12:33:23.6	77.9	5.2	0.8	7	4.9		
MOX	e P	Z 12:33:28.3	78.6	4.3	1.0	9	4.7		
TNS	e P	Z 12:33:31.1	79.2	2.2	0.9	20	5.0		
GRA1	e P	Z 12:33:34.0	79.6	4.0	0.8	18	5.0		
WLF	e P	Z 12:33:35.3	79.8	0.7	0.8	12	4.9		
GEC2	e P	Z 12:33:37.4	80.3	5.6	0.9	4	4.5		
STU	e P	Z 12:33:39.1	80.6	2.7	0.7	11	5.0		
RJOB	e P	Z 12:33:43.6	81.5	5.0	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/10	18:24:1.2	44.265N	145.994E	90.3	5.3			SZGRF
Hokkaido, Japan, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 18:35:30.2	73.3	33.3	1.5	119	5.7		
BSEG	e P	Z 18:35:38.5	74.8	31.2	0.9	49	5.5		
RUE	e P	Z 18:35:39.0	74.9	33.3	1.4	74	5.5		
	e pP	Z 18:36:02.5							
HLG	e P	Z 18:35:41.4	75.3	29.6	1.1	63	5.6		
NRDL	e P	Z 18:35:45.6	76.1	30.9	0.9	17	5.2		
CLL	e P	Z 18:35:45.5	76.1	32.7	1.2	60	5.6		
	e pP	Z 18:36:09.3							
CLZ	e P	Z 18:35:48.7	76.6	31.0	1.6	114	5.8		
	e pP	Z 18:36:12.1							
IBBN	e P	Z 18:35:50.6	77.0	29.3	1.0	45	5.6		
TANN	e P	Z 18:35:51.3	77.1	32.2	1.7	32	5.2		
WERD	e P	Z 18:35:51.4	77.1	32.1	2.0	54	5.3		

	e pP	Z	18:36:15.0							
GUNZ	e P	Z	18:35:51.8	77.2	32.1	0.9	14	5.1		
MOX	e P	Z	18:35:51.7	77.2	31.7	0.8	12	5.1		
	e pP	Z	18:36:15.0							
WERN	e P	Z	18:35:52.1	77.2	32.1	0.7	11	5.1		
	e pP	Z	18:36:15.8							
UBBA	e P	Z	18:35:53.8	77.5	30.6	0.8	9	4.9		
ROTZ	e P	Z	18:35:55.3	77.7	31.9	1.2	17	5.0		
BUG	e P	Z	18:35:55.5	77.9	28.9	1.5	55	5.5		
	e pP	Z	18:36:19.0							
GEC2	e P	Z	18:35:56.1	78.0	32.8	1.1	11	4.9		
	e pP	Z	18:36:19.6							
WET	e P	Z	18:35:56.8	78.0	32.3	1.4	40	5.3		
	e pP	Z	18:36:20.0							
GRA1	e P	Z	18:35:57.4	78.1	31.3	0.8	33	5.5		
	e pP	Z	18:36:20.8							
TNS	e P	Z	18:35:59.5	78.6	29.5	0.8	19	5.2		
	e pP	Z	18:36:23.2							
RJOB	e P	Z	18:36:03.5	79.2	32.1	1.0	18	5.0		
FUR	e P	Z	18:36:04.2	79.4	31.2	1.3	54	5.3		
	e pP	Z	18:36:27.9							
STU	e P	Z	18:36:04.9	79.6	29.9	0.9	17	5.0		
WLF	e P	Z	18:36:06.5	79.8	28.0	1.4	22	4.9		
BFO	e P	Z	18:36:08.0	80.2	29.3	1.3	22	5.0		
	e pP	Z	18:36:31.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/10

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:52:08.5							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/10 18:42:38.9  
Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e pPKPbc	Z 19:03:09.9	142.8	6.7					
CLL	e PKPbc	Z 19:01:11.5	143.2	15.2					
	e pPKPbc	Z 19:03:11.3							
BUG	e pPKPbc	Z 19:03:12.6	143.7	6.0					
MOX	e PKPbc	Z 19:01:14.3	144.0	13.2					
PLN	e pPKPbc	Z 19:01:14.3	144.1	14.2					
WERD	e pPKPbc	Z 19:01:14.3	144.1	14.4					
TANN	e PKPbc	Z 19:01:14.6	144.1	14.7					

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GUNZ	e	pPKPbc	Z	19:01:14.5	144.2	14.5
TNS	e	pPKPbc	Z	19:03:16.5	144.8	8.1
GRA1	e	PKPbc	Z	19:01:17.7	145.0	12.9
WLF	e	PKPbc	Z	19:01:18.5	145.5	4.4
RJOB	e	pPKPbc	Z	19:03:22.2	146.6	16.3
BFO	e	pPKPbc	Z	19:03:21.5	146.7	8.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/10	19:41:55.6	22.710N	122.690E	33.0N	5.5	5.9		SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 19:54:22.7	83.9	60.9	1.4	34	5.4		
BSEG	e P	Z 19:54:24.4	84.0	59.1	0.6	31	5.7		
TANN	e P	Z 19:54:26.8	84.6	60.4	1.2	20	5.2		
GEC2	e P	Z 19:54:27.3	84.7	61.2	1.2	44	5.6		
NRDL	e P	Z 19:54:28.2	84.8	58.8	1.6	34	5.3		
MOX	e P	Z 19:54:28.8	84.9	59.8	1.3	23	5.2		
WET	e P	Z 19:54:29.6	85.0	60.6	1.3	27	5.3		
CLZ	e P	Z 19:54:29.5	85.0	58.9	1.2	29	5.4		
ROTZ	e P	Z 19:54:29.6	85.1	60.2	1.3	42	5.5		
GRA1	e P	Z 19:54:32.5	85.6	59.4	1.3	59	5.6		
	e S	R 20:05:06.3							
	e L	Z 20:36:54.3			19.1	4913		5.9	
RJOB	e P	Z 19:54:32.8	85.7	60.4	1.1	35	5.4		
UBBA	e P	Z 19:54:33.7	85.7	58.6	1.5	22	5.1		
IBBN	e P	Z 19:54:34.5	86.1	57.0	1.2	44	5.5		
FUR	e P	Z 19:54:36.4	86.4	59.4	1.2	98	5.8		
BUG	e P	Z 19:54:38.0	86.8	56.6	1.2	86	5.7		
TNS	e P	Z 19:54:38.6	86.9	57.4	1.3	49	5.5		
STU	e P	Z 19:54:40.0	87.3	57.9	1.0	17	5.1		
BFO	e P	Z 19:54:43.5	88.0	57.2	1.5	34	5.5		
WLF	e P	Z 19:54:46.1	88.4	55.6	1.2	88	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/10	20:53: 1.3	36.903N	22.082E	10.0G	4.9	5.0		SZGRF

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 20:56:10.2	12.8	144.4					
GEC2	e P	Z 20:56:17.0	13.4	149.8					
WET	e P	Z 20:56:23.0	13.9	147.9					
ROTZ	e P	Z 20:56:33.8	14.7	147.3					
GRA1	e P	Z 20:56:39.1	15.0	144.4					
	e L	Z 21:03:55.2			20.0	10262		5.0	

Station	Type	Time	Lat	Long	Depth	mb	Ms	ML	Source
WERN	e P	Z 20:56:42.4			15.1	148.8			
STU	e P	Z 20:56:42.1			15.1	136.9	0.8	78	
GUNZ	e P	Z 20:56:42.9			15.2	148.8	1.3	71	
TANN	e P	Z 20:56:43.2			15.2	149.3	1.0	48	
BFO	e P	Z 20:56:42.3			15.2	133.6	1.0	32	
WERD	e P	Z 20:56:44.3			15.2	148.9	1.4	49	
MOX	e P	Z 20:56:47.2			15.6	147.4	0.9	27	
CLL	e P	Z 20:56:50.2			15.8	152.4	1.0	104	4.9
UBBA	e P	Z 20:56:58.8			16.4	143.6	1.9	94	
TNS	e P	Z 20:57:00.8			16.5	138.5	1.2	166	
RUE	e P	Z 20:57:02.6			16.6	156.2	1.0	186	
CLZ	e P	Z 20:57:07.9			17.1	146.4	1.8	139	
WLF	e P	Z 20:57:09.5			17.2	132.0	1.1	66	
NRDL	e P	Z 20:57:16.1			17.7	146.9	1.4	107	
BUG	e P	Z 20:57:18.9			17.9	138.4	1.4	112	
IBBN	e P	Z 20:57:24.1			18.4	141.2	1.4	74	
RGN	e P	Z 20:57:25.7			18.6	157.6	0.9	106	
BSEG	e P	Z 20:57:27.8			18.9	149.7	1.2	112	
HLG	e P	Z 20:57:37.2			19.9	144.7	0.9	143	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/10

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e PKPbc Z 21:05:11.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/10 21:27:10.2 3.326N 94.135E 33.0N 4.7  
 Off west coast of northern Sumatra, Indonesia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 21:39:31.9 82.9 93.3 1.2 6 4.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/10 22:25:42.3 40.730N 49.520E 33.0N 4.7  
 Eastern Caucasus

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 CLL e P Z 22:31:23.4 27.1 98.5 0.9 5 4.3  
 MOX e P Z 22:31:30.7 27.9 96.0 1.2 9 4.5  
 GRA1 e P Z 22:31:31.7 28.1 93.8 1.3 10 4.5  
 CLZ e P Z 22:31:38.9 28.8 97.0 1.1 11 4.6  
 UBBA e P Z 22:31:39.7 28.9 94.8 1.5 14 4.5

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BSEG	e P	Z	22:31:41.5	29.2	100.7	1.0	21	4.9
STU	e P	Z	22:31:43.1	29.4	90.5	1.1	17	4.8
TNS	e P	Z	22:31:49.0	29.9	92.5	1.5	26	4.8
IBBN	e P	Z	22:31:53.5	30.5	95.5	1.2	24	5.0
WLF	e P	Z	22:32:01.5	31.4	89.7	1.3	15	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/11	04:03:10.6	60.380N	145.470W	33.0N	5.1			SZGRF

Southern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 04:13:43.8	64.1	347.0	1.2	18	5.2		
IBBN	e P	Z 04:13:52.0	65.3	345.8	1.3	18	5.1		
NRDL	e P	Z 04:13:52.6	65.4	347.0	1.2	18	5.2		
BUG	e P	Z 04:13:56.5	66.1	345.7	1.3	19	5.2		
CLZ	e P	Z 04:13:57.7	66.1	347.2	1.4	30	5.3		
CLL	e P	Z 04:14:02.3	67.0	348.6	3.4	118	5.5		
UBBA	e P	Z 04:14:03.2	67.1	347.1	2.0	41	5.3		
TNS	e P	Z 04:14:05.1	67.4	346.4	1.2	17	5.2		
MOX	e P	Z 04:14:05.7	67.4	348.0	1.0	15	5.2		
WLF	e P	Z 04:14:07.1	67.6	345.3	1.4	20	5.2		
TANN	e P	Z 04:14:08.1	67.8	348.4	1.4	15	5.0		
GRA1	e P	Z 04:14:11.5	68.3	347.9	1.3	16	5.1		
ROTZ	e P	Z 04:14:11.6	68.4	348.4	1.1	8	4.8		
STU	e P	Z 04:14:14.4	68.9	346.9	0.9	6	4.9		
WET	e P	Z 04:14:16.3	69.1	348.7	1.2	12	5.0		
BFO	e P	Z 04:14:16.4	69.2	346.5	1.5	12	4.8		
GEC2	e P	Z 04:14:18.3	69.5	349.2	2.3	34	5.1		
FUR	e P	Z 04:14:20.4	69.8	348.0	0.7	12	5.2		
RJOB	e P	Z 04:14:24.1	70.5	348.8	1.3	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/11	04:43:47.6	35.499N	141.020E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:56:14.7	83.9	39.0	1.2	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/11	05:49:22.5	17.740S	172.360W	35.7		5.1		SZGRF

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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RUE	e	PKPbc	Z	06:08:55.6	144.9	10.2					
NRDL	e	PKPbc	Z	06:08:55.9	145.2	4.1					
	e	pPKPbc	Z	06:09:06.3							
IBBN	e	PKPbc	Z	06:08:56.9	145.4	0.2					
	e	pPKPbc	Z	06:09:07.3							
CLZ	e	PKPbc	Z	06:08:57.9	145.8	4.6					
CLL	e	PKPbc	Z	06:08:58.9	146.2	9.2					
	e	pPKPbc	Z	06:09:09.6							
BUG	e	PKPbc	Z	06:08:59.1	146.3	359.4					
	e	pPKPbc	Z	06:09:10.5							
UBBA	e	PKPbc	Z	06:09:00.7	146.9	4.1					
MOX	e	PKPbc	Z	06:09:01.0	146.9	7.0					
WERD	e	PKPbc	Z	06:09:01.7	147.1	8.2					
TANN	e	PKPbc	Z	06:09:01.8	147.1	8.5					
GUNZ	e	PKPbc	Z	06:09:02.0	147.2	8.3					
WERN	e	PKPbc	Z	06:09:02.4	147.2	8.4					
TNS	e	PKPbc	Z	06:09:03.0	147.5	1.4					
ROTZ	e	PKPbc	Z	06:09:03.8	147.8	8.2					
GRA1	e	PKPbc	Z	06:09:04.4	147.9	6.4					
	e	L	Z	07:22:10.5			18.0	262		5.1	
WLF	e	PKPbc	Z	06:09:05.2	148.1	357.3					
WET	e	PKPbc	Z	06:09:05.4	148.3	9.5					
GEC2	e	PKPbc	Z	06:09:05.7	148.5	11.1					
BFO	e	PKPbc	Z	06:09:08.2	149.4	1.3					
FUR	e	PKPbc	Z	06:09:08.4	149.4	6.8					
RJOB	e	PKPbc	Z	06:09:09.1	149.7	9.8					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/11 10:33:44.8 3.528S 28.597E 33.0N 4.4  
 Lake Tanganyika region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:43:15.4	55.3	158.7	1.0	4	4.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/11 15:49:21.1 46.421N 153.363E 33.0N 4.8  
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 16:01:07.6	76.5	26.9	0.8	10	5.0		
CLZ	e P	Z 16:01:09.5	76.7	25.2	1.2	10	4.8		
MOX	e P	Z 16:01:13.6	77.5	25.9	1.0	5	4.6		
ROTZ	e P	Z 16:01:17.4	78.1	26.2	0.9	4	4.6		
GRA1	e P	Z 16:01:19.0	78.4	25.6	0.7	11	5.0		
WET	e P	Z 16:01:19.3	78.5	26.6	1.0	7	4.6		

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TNS	e P	Z	16:01:20.6	78.7	23.8	0.9	9	4.8
BFO	e P	Z	16:01:30.3	80.5	23.6	1.0	8	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/11	16:34:5.0	26.449S	179.280E	509.0G				NEIC
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 16:53:00.2	151.3	20.9					
CLL	e PKPbc	Z 16:53:03.4	153.0	27.9					
CLZ	e PKPbc	Z 16:53:04.5	153.3	22.5					
GRA1	e PKPab	Z 16:53:26.1	155.0	26.0					
GRB3	e PKPab	Z 16:53:26.9	155.1	27.5					
GRB1	e PKPab	Z 16:53:26.9	155.1	27.2					
GRC1	e PKPab	Z 16:53:28.0	155.5	27.3					
GRC3	e PKPab	Z 16:53:28.6	155.6	27.5					
GRC2	e PKPab	Z 16:53:29.2	155.7	27.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/11	20:56:59.4	35.570N	71.960E	217.2	5.6			SZGRF
Pakistan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 21:04:42.6	43.7	88.8	0.9	108	5.6		
	e PcP	Z 21:06:26.3							
GEC2	e P	Z 21:04:45.0	44.0	85.0	1.0	29	5.0		
RGN	e P	Z 21:04:45.4	44.0	90.6	0.8	270	6.1		
CLL	e P	Z 21:04:46.8	44.3	87.0	0.9	53	5.5		
WET	e P	Z 21:04:49.2	44.5	84.7	1.7	44	5.1		
	e pP	Z 21:05:35.6							
TANN	e P	Z 21:04:50.6	44.7	85.7	1.0	45	5.3		
RJOB	e P	Z 21:04:50.6	44.7	83.3	0.9	50	5.5		
WERN	e P	Z 21:04:51.2	44.7	85.5	0.9	24	5.1		
GUNZ	e P	Z 21:04:51.3	44.7	85.6	0.9	49	5.4		
WERD	e P	Z 21:04:51.3	44.7	85.6	0.9	41	5.4		
	e PcP	Z 21:06:34.0							
ROTZ	e P	Z 21:04:53.0	44.9	84.9	1.1	60	5.4		
	e pP	Z 21:05:40.2							
MOX	e P	Z 21:04:54.7	45.2	85.3	0.8	49	5.6		
GRA1	e P	Z 21:04:58.1	45.5	84.1	1.0	72	5.6		
	e pP	Z 21:05:44.7							
FUR	e P	Z 21:04:58.5	45.7	82.7	1.1	97	5.8		
	e PcP	Z 21:06:36.8							
BSEG	e P	Z 21:04:59.5	45.8	87.6	0.8	104	5.9		
CLZ	e P	Z 21:04:59.9	45.9	85.6	1.1	81	5.7		

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NRDL	e P	Z	21:05:01.0	46.0	86.0	0.9	74	5.7
UBBA	e P	Z	21:05:02.1	46.2	84.3	1.2	60	5.6
STU	e P	Z	21:05:08.4	46.9	81.9	0.9	62	5.7
	e PcP	Z	21:06:41.6					
HLG	e P	Z	21:05:10.5	47.2	85.9	0.9	112	6.0
TNS	e P	Z	21:05:10.8	47.2	82.7	1.1	69	5.7
	e PcP	Z	21:06:42.4					
IBBN	e P	Z	21:05:12.1	47.4	84.1	0.9	119	6.0
BFO	e P	Z	21:05:12.8	47.6	80.9	1.5	48	5.4
BUG	e P	Z	21:05:15.2	47.8	83.0	1.0	78	5.8
	e PcP	Z	21:06:44.3					
WLF	e P	Z	21:05:23.1	48.8	80.6	1.2	129	5.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/11								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:25:34.3			1.3	4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	02:21:48.4	46.677N	153.016E	33.0N	5.0			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:33:44.6	78.1	25.7	1.2	16	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	06:28: 3.7	31.620N	103.730E	33.0N	7.2	8.4		SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 06:38:41.6	64.9	70.1	1.9	5761	7.5		
RUE	e P	Z 06:38:44.2	65.4	69.5	2.0	5100	7.4		
CLL	e P	Z 06:38:49.7	66.3	68.5	1.5	1754	7.1		
BSEG	e P	Z 06:38:53.8	66.8	67.6	1.2	1439	7.1		
TANN	e P	Z 06:38:54.2	66.9	67.7	1.4	1368	7.0		
WERD	e P	Z 06:38:55.0	67.0	67.6					
GUNZ	e P	Z 06:38:55.3	67.0	67.6					
WERN	e P	Z 06:38:55.3	67.0	67.6					
WET	e P	Z 06:38:55.9	67.2	67.5	2.2	3943	7.3		
ROTZ	e P	Z 06:38:57.1	67.3	67.3	1.3	1867	7.2		
MOX	e P	Z 06:38:56.8	67.3	67.3	1.8	1898	7.0		
CLZ	e P	Z 06:38:58.6	67.6	66.9	1.3	2396	7.3		

RJOB	e P	Z	06:38:59.6	67.7	66.9	1.5	2392	7.2	
GRA1	e P	Z	06:39:00.9	67.9	66.6	1.2	2190	7.2	
	e L	Z	07:10:32.2			20.0	2380998		8.4
GRFO	e P	Z	06:39:01.0	67.9	66.6	1.2	1666	7.1	
HLG	e P	Z	06:39:01.4	68.0	66.0	1.7	2705	7.2	
FUR	e P	Z	06:39:04.3	68.5	66.1	1.0	3634	7.6	
IBBN	e P	Z	06:39:06.4	68.9	65.2	1.2	1818	7.2	
TNS	e P	Z	06:39:09.6	69.3	65.0	1.5	2044	7.0	
BUG	e P	Z	06:39:10.4	69.5	64.6	1.4	1790	7.0	
STU	e P	Z	06:39:10.3	69.5	65.0	0.9	1245	7.0	
BFO	e P	Z	06:39:14.5	70.2	64.3	1.3	1617	7.0	
WLF	e P	Z	06:39:19.4	70.9	63.3	1.3	4049	7.4	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 06:43:44.0 33.779N 100.289E 33.0N 6.2  
 Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:54:16.9	64.4	67.2	2.1	336	6.2		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 06:54:46.6 33.485N 100.186E 33.0N 5.0  
 Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:05:20.5	64.5	67.5	1.0	11	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 07:01:42.3 31.378N 102.994E 33.0N 5.4  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:12:36.6	67.7	67.3	0.9	22	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 07:07: 9.1 34.137N 100.468E 33.0N 4.8  
 Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:17:41.1	64.2	66.8	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	07:07:50.7	34.532N	105.477E	33.0N	4.6			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:18:39.9	66.9	63.3	0.9	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	07:31:19.2	32.968N	104.025E	33.0N	4.6			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:42:10.1	67.1	65.4	1.1	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	07:35: 8.5	34.382N	101.865E	33.0N	4.7			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:45:44.8	64.9	65.7	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:03: 6.9	31.045N	103.790E	33.0N	4.5			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:14:05.6	68.4	67.0	0.8	2	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:08:41.9	33.267N	101.847E	33.0N	4.6			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:19:23.2	65.6	66.6	1.0	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:11:25.7	33.450N	100.384E	33.0N	5.2			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:22:00.5	64.6	67.4	0.9	14	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:22: 9.6	33.968N	99.898E	18.3	5.0			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:32:42.2	64.0	67.3	1.0	10	5.0		
	e pP	Z 08:32:47.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:26:53.7	34.541N	98.231E	33.0N	4.4			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:37:15.0	62.6	67.9	0.8	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:47:40.6	33.137N	103.084E	33.0N	4.8			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:58:27.2	66.5	65.9	1.2	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:51: 4.8	36.312N	103.429E	15.2	4.7			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:01:40.8	64.4	63.2	0.9	6	4.7		
	e pP	Z 09:01:45.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	08:54:26.4	34.262N	104.903E	33.0N	5.0			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:05:14.7	66.7	63.9	1.0	10	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	09:07:24.1	33.180N	101.024E	33.0N	5.1			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:18:02.6	65.2	67.2	1.1	13	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	09:24:20.3	36.325N	98.910E	14.9	4.9			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:34:36.1	61.8	66.0	1.5	10	4.9		
	e pP	Z 09:34:40.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	09:32:14.9	37.222N	96.920E	33.0N	4.5			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:42:18.6	60.0	66.5	1.2	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	09:42:29.8	31.830N	103.750E	33.0N	5.9			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 09:53:07.0	64.8	69.9	0.8	143	6.3		
RUE	e P	Z 09:53:09.8	65.3	69.3	1.3	151	6.1		
CLL	e P	Z 09:53:15.0	66.1	68.3	1.1	71	5.8		
GEC2	e P	Z 09:53:18.8	66.6	67.7	1.1	59	5.7		
BSEG	e P	Z 09:53:19.2	66.6	67.5	0.9	158	6.3		
TANN	e P	Z 09:53:19.6	66.8	67.6	1.0	49	5.7		
WERD	e P	Z 09:53:20.0	66.9	67.5	1.0	46	5.7		
GUNZ	e P	Z 09:53:20.2	66.9	67.5	0.8	76	6.0		
WERN	e P	Z 09:53:20.3	66.9	67.5	1.0	59	5.8		
WET	e P	Z 09:53:21.4	67.0	67.3	1.3	54	5.6		
ROTZ	e P	Z 09:53:22.6	67.2	67.1	1.0	93	6.0		

MOX	e P	Z	09:53:22.1	67.2	67.1	1.3	63	5.7
NRDL	e P	Z	09:53:23.5	67.3	66.8	1.0	109	6.0
CLZ	e P	Z	09:53:23.9	67.4	66.7	0.9	123	6.1
RJOB	e P	Z	09:53:25.2	67.6	66.7	1.7	75	5.6
GRA1	e P	Z	09:53:26.4	67.8	66.5	1.0	128	6.1
GRFO	e P	Z	09:53:26.4	67.8	66.5			
HLG	e P	Z	09:53:26.6	67.9	65.8	0.9	81	5.9
UBBA	e P	Z	09:53:27.4	68.1	66.1	1.4	30	5.4
FUR	e P	Z	09:53:30.2	68.4	65.9	0.9	194	6.3
IBBN	e P	Z	09:53:31.8	68.7	65.1	1.2	94	5.9
TNS	e P	Z	09:53:34.8	69.2	64.8	1.0	70	5.8
BUG	e P	Z	09:53:35.8	69.4	64.4	1.2	94	5.8
STU	e P	Z	09:53:35.7	69.4	64.8	0.9	87	5.9
BFO	e P	Z	09:53:39.8	70.1	64.1	1.1	69	5.7
WLF	e P	Z	09:53:45.0	70.8	63.1	1.0	186	6.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	09:52:17.4	47.620N	27.000W	33.0N	5.0			SZGRF
Northern Mid-Atlantic Ridge								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	09:57:08.9	21.8	277.4	1.2	67	4.9		
BUG	e P	Z	09:57:13.1	22.4	273.7	1.1	86	5.1		
IBBN	e P	Z	09:57:17.0	22.6	272.0	1.2	110	5.3		
TNS	e P	Z	09:57:23.1	23.2	277.4	1.4	146	5.3		
BFO	e P	Z	09:57:24.7	23.5	281.6	2.8	356	5.4		
STU	e P	Z	09:57:29.3	23.9	281.1	1.5	74	5.0		
NRDL	e P	Z	09:57:31.1	24.0	273.3	1.2	115	5.3		
BSEG	e P	Z	09:57:30.9	24.1	270.2	1.2	68	5.1		
UBBA	e P	Z	09:57:31.3	24.1	276.9	2.1	32	4.5		
CLZ	e P	Z	09:57:33.5	24.2	274.9	1.2	139	5.4		
GRA1	e P	Z	09:57:41.2	25.1	280.1	1.1	74	5.3		
MOX	e P	Z	09:57:41.8	25.2	278.3	1.0	28	4.9		
FUR	e P	Z	09:57:43.7	25.4	283.3	1.4	77	5.3		
WERD	e P	Z	09:57:44.2	25.6	279.1	0.9	18	4.7		
GUNZ	e P	Z	09:57:44.5	25.6	279.3	1.1	28	4.8		
ROTZ	e P	Z	09:57:47.5	25.7	280.4	1.6	48	4.9		
WERN	e P	Z	09:57:45.0	25.7	279.4	1.2	29	4.8		
TANN	e P	Z	09:57:45.3	25.7	279.2	1.2	28	4.8		
RGN	e P	Z	09:57:47.6	25.9	271.3	1.3	58	5.1		
CLL	e P	Z	09:57:47.2	25.9	277.7	1.1	39	4.9		
WET	e P	Z	09:57:50.7	26.2	282.0	1.2	32	4.8		
RUE	e P	Z	09:57:52.5	26.3	275.9	1.2	74	5.2		
RJOB	e P	Z	09:57:54.0	26.5	284.7	2.4	100	5.1		
GEC2	e P	Z	09:57:55.3	26.8	283.0	1.7	47	4.9		



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	10:23:51.3	31.629N	102.402E	33.0N	5.2			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:34:42.2	67.1	67.5	1.1	17	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	11:11: 6.9	31.024N	103.246E	33.0N	5.9	6.7		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 11:21:44.5	65.1	70.8	1.1	146	6.1		
RUE	e P	Z 11:21:47.2	65.6	70.3	1.5	158	6.0		
BRG	e P	Z 11:21:50.1	66.0	69.7	1.2	72	5.8		
CLL	e P	Z 11:21:52.3	66.4	69.2	1.2	81	5.8		
GEC2	e P	Z 11:21:56.0	66.9	68.7	1.1	68	5.8		
BSEG	e P	Z 11:21:56.7	67.0	68.4	1.2	132	6.0		
TANN	e P	Z 11:21:56.9	67.1	68.5	1.2	63	5.7		
WERD	e P	Z 11:21:57.3	67.1	68.4	1.1	58	5.7		
GUNZ	e P	Z 11:21:57.5	67.2	68.4	1.1	85	5.9		
WERN	e P	Z 11:21:57.6	67.2	68.4	1.1	77	5.8		
WET	e P	Z 11:21:58.6	67.3	68.3	1.3	74	5.8		
ROTZ	e P	Z 11:21:59.9	67.5	68.1	1.2	112	6.0		
MOX	e P	Z 11:21:59.4	67.5	68.0	1.3	60	5.7		
NRDL	e P	Z 11:22:00.9	67.6	67.7	1.2	135	6.0		
CLZ	e P	Z 11:22:01.4	67.7	67.6	1.3	124	6.0		
RJOB	e P	Z 11:22:02.5	67.9	67.7	3.2	901	6.5		
GRA1	e P	Z 11:22:03.7	68.1	67.4	1.4	152	6.0		
	e L	Z 11:53:28.8			18.4	44551		6.7	
HLG	e P	Z 11:22:04.1	68.2	66.8	1.1	94	5.9		
UBBA	e P	Z 11:22:04.8	68.4	67.0	1.7	78	5.7		
FUR	e P	Z 11:22:07.3	68.6	66.9	1.2	256	6.3		
IBBN	e P	Z 11:22:09.2	69.0	66.0	1.1	67	5.8		
TNS	e P	Z 11:22:12.1	69.5	65.7	0.9	64	5.7		
STU	e P	Z 11:22:13.0	69.7	65.7	1.0	73	5.8		
BUG	e P	Z 11:22:13.2	69.7	65.4	1.2	75	5.7		
BFO	e P	Z 11:22:17.2	70.4	65.0	1.2	81	5.7		
WLF	e P	Z 11:22:22.3	71.1	64.0	1.1	170	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	11:29:10.3	34.122N	99.786E	33.0N	4.6			SZGRF

Qinghai, China

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:39:39.7	63.8	67.2	0.8	3	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	11:42:1.6	36.680N	99.077E	33.0N	4.7			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:52:16.5	61.6	65.6	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	12:05:19.3	37.252N	100.578E	16.3	4.8			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:15:39.8	62.1	64.2	1.2	7	4.8		
	e pP	Z	12:15:44.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	12:16:11.0	33.709N	100.687E	33.0N	4.8			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:26:45.9	64.6	67.0	1.1	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	12:50:40.3	56.917N	153.264W	26.3	5.5			SZGRF

Kodiak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z	13:01:36.0	67.8	349.0	1.2	110	5.9		
RGN	e P	Z	13:01:37.2	68.0	352.2	0.9	96	6.0		
BSEG	e P	Z	13:01:39.0	68.3	350.4	1.0	43	5.6		
IBBN	e P	Z	13:01:47.1	69.7	349.1	1.0	47	5.6		
NRDL	e P	Z	13:01:47.3	69.7	350.4	0.9	49	5.6		
RUE	e P	Z	13:01:49.7	70.1	352.5	0.9	75	5.8		
	e pP	Z	13:01:56.9							
CLZ	e P	Z	13:01:51.9	70.4	350.6	1.0	57	5.7		
BUG	e P	Z	13:01:51.5	70.5	348.9	0.9	58	5.7		
CLL	e P	Z	13:01:55.7	71.2	352.1	0.9	29	5.4		
UBBA	e P	Z	13:01:56.9	71.4	350.5	1.9	55	5.4		

BRG	e P	Z	13:01:59.1	71.7	352.7	1.0	34	5.4
MOX	e P	Z	13:01:59.2	71.7	351.4	0.8	49	5.7
	e pP	Z	13:02:06.9					
TNS	e P	Z	13:01:59.8	71.8	349.6	0.8	50	5.7
WERD	e P	Z	13:02:00.8	72.0	351.8	0.9	20	5.2
TANN	e P	Z	13:02:01.2	72.0	351.9	1.1	24	5.2
GUNZ	e P	Z	13:02:01.1	72.1	351.8	0.9	27	5.4
WLF	e P	Z	13:02:01.4	72.1	348.4	1.7	92	5.6
WERN	e P	Z	13:02:02.0	72.1	351.8	0.9	31	5.4
GRA1	e P	Z	13:02:04.8	72.6	351.2	0.8	44	5.6
	e pP	Z	13:02:12.5					
ROTZ	e P	Z	13:02:05.1	72.6	351.8	0.9	33	5.5
STU	e P	Z	13:02:08.7	73.3	350.1	0.9	26	5.2
WET	e P	Z	13:02:09.1	73.3	352.2	1.2	24	5.1
BFO	e P	Z	13:02:10.6	73.6	349.7	2.2	117	5.5
GEC2	e P	Z	13:02:10.8	73.7	352.6	0.8	21	5.2
FUR	e P	Z	13:02:13.5	74.1	351.3	0.8	40	5.5
	e pP	Z	13:02:21.0					
RJOB	e P	Z	13:02:16.8	74.7	352.2	0.8	42	5.5

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 13:41:2.4 31.119N 102.685E 33.0N 4.8  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:51:56.7	67.7	67.7	1.2	8	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 14:10:30.7 31.248N 102.839E 33.0N 4.4  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:21:24.9	67.7	67.5	0.9	2	4.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 14:15:56.9 34.819N 101.026E 33.0N 5.2  
 Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:26:28.0	64.1	65.9	1.0	14	5.2		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	14:46:39.0	36.436N	102.948E	33.0N	5.2			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:57:10.0	64.1	63.4	1.1	19	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	15:05:51.9	32.914N	101.190E	33.0N	5.0			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:16:32.3	65.5	67.3	1.0	10	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	15:29:30.5	34.433N	98.998E	33.0N	4.7			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:39:55.4	63.1	67.5	1.0	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	16:28:59.8	31.153N	102.948E	33.0N	4.7			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:39:54.8	67.8	67.5	1.1	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	17:03:14.7	32.219N	105.026E	33.0N	5.0			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:14:12.7	68.3	65.3	1.4	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	17:29:31.0	33.251N	100.628E	33.0N	4.6			SZGRF

Qinghai, China

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:40:07.7	64.9	67.4	1.1	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	17:53:4.3	34.137N	98.435E	33.0N	4.5			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:03:28.3	63.0	68.1	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	17:54:50.4	32.774N	101.975E	33.0N	5.3			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:05:34.4	66.1	66.9	1.7	34	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	19:53:45.2	33.545N	100.734E	33.0N	4.7			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:04:20.9	64.8	67.1	1.1	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/12	20:08:53.2	31.183N	103.670E	33.0N	6.1	5.9		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 20:19:31.6	65.2	70.4	1.5	366	6.4		
RUE	e P	Z 20:19:34.3	65.7	69.8	1.5	276	6.3		
BRG	e P	Z 20:19:37.3	66.2	69.3	1.4	128	6.0		
CLL	e P	Z 20:19:39.5	66.6	68.8	1.4	140	6.0		
GEC2	e P	Z 20:19:43.2	67.0	68.3	1.4	109	5.9		
BSEG	e P	Z 20:19:43.7	67.1	68.0	1.3	234	6.3		
TANN	e P	Z 20:19:44.1	67.2	68.1	1.4	115	5.9		
WERD	e P	Z 20:19:44.5	67.3	68.0	1.4	108	5.9		
GUNZ	e P	Z 20:19:44.7	67.3	68.0	1.4	143	6.0		
WERN	e P	Z 20:19:44.8	67.3	68.0	1.4	125	6.0		
WET	e P	Z 20:19:45.8	67.4	67.9	1.6	142	5.9		
ROTZ	e P	Z 20:19:47.1	67.6	67.7	1.4	189	6.1		

MOX	e P	Z	20:19:46.6	67.6	67.6	1.6	145	6.0
NRDL	e P	Z	20:19:48.0	67.8	67.3	1.5	289	6.3
CLZ	e P	Z	20:19:48.5	67.9	67.2	1.3	218	6.2
RJOB	e P	Z	20:19:49.8	68.0	67.3	1.9	213	6.1
GRA1	e P	Z	20:19:50.9	68.2	67.0	1.5	303	6.3
	e L	Z	20:51:23.1			19.1	7355	5.9
HLG	e P	Z	20:19:51.1	68.3	66.3	1.2	181	6.2
UBBA	e P	Z	20:19:51.9	68.5	66.6	1.6	121	5.9
FUR	e P	Z	20:19:54.6	68.8	66.5	1.5	440	6.5
IBBN	e P	Z	20:19:56.3	69.2	65.6	1.4	210	6.2
TNS	e P	Z	20:19:59.3	69.6	65.3	1.4	138	5.9
BUG	e P	Z	20:20:00.3	69.8	65.0	1.4	180	6.0
STU	e P	Z	20:20:00.2	69.8	65.3	1.2	108	5.8
BFO	e P	Z	20:20:04.3	70.5	64.6	1.5	144	5.9
WLF	e P	Z	20:20:09.5	71.2	63.6	1.3	332	6.3

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 20:45:48.2 34.442N 104.455E 33.0N 5.7  
 Gansu, China SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 20:56:34.0 66.3 64.0 1.6 77 5.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 20:51:56.5 36.086N 101.953E 17.7 5.0  
 Qinghai, China SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 21:02:27.5 63.7 64.3 1.0 9 5.0  
 e pP Z 21:02:32.4

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 22:57:44.1 24.750N 124.454E 33.0N 4.9  
 Southwestern Ryukyu Islands, Japan SZGRF

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 23:10:16.5 85.0 56.9 1.0 9 4.9

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 23:46:23.6 31.730N 103.550E 33.0N 5.6 5.5  
 Sichuan, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	23:57:03.7	65.2	69.5	1.2	71	5.8		
BRG	e P	Z	23:57:06.7	65.7	68.9	1.1	42	5.6		
CLL	e P	Z	23:57:08.9	66.1	68.5	1.2	40	5.5		
BSEG	e P	Z	23:57:13.2	66.6	67.7	1.0	67	5.8		
TANN	e P	Z	23:57:13.5	66.7	67.8	1.1	31	5.4		
WERD	e P	Z	23:57:13.8	66.8	67.7	1.1	28	5.4		
GUNZ	e P	Z	23:57:14.0	66.8	67.7	1.0	40	5.6		
WERN	e P	Z	23:57:14.1	66.8	67.7	1.3	47	5.6		
WET	e P	Z	23:57:15.1	67.0	67.5	1.8	73	5.6		
ROTZ	e P	Z	23:57:16.5	67.1	67.3	1.1	63	5.7		
MOX	e P	Z	23:57:16.0	67.1	67.3	1.2	29	5.4		
CLZ	e P	Z	23:57:17.9	67.4	66.9	1.0	67	5.8		
RJOB	e P	Z	23:57:19.0	67.6	66.9	1.3	38	5.5		
GRA1	e P	Z	23:57:20.2	67.7	66.7	1.2	83	5.8		
FUR	e P	Z	23:57:23.9	68.3	66.1	1.0	112	6.1		
IBBN	e P	Z	23:57:25.8	68.7	65.3	1.1	46	5.6		
TNS	e P	Z	23:57:28.7	69.2	65.0	1.1	40	5.5		
BUG	e P	Z	23:57:29.7	69.3	64.6	1.2	44	5.5		
STU	e P	Z	23:57:29.6	69.3	65.0	1.1	54	5.6		
BFO	e P	Z	23:57:33.7	70.0	64.3	1.2	42	5.4		
WLF	e P	Z	23:57:38.9	70.7	63.3	1.1	116	5.9		
GRA1	e L	Z	00:28:37.3	67.7	66.7	19.6	2598		5.5	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/12 23:54:51.3 31.630N 103.640E 33.0N 5.4 5.5 ML SZGRF  
 Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:05:34.6	65.8	69.0	1.1	28	5.4		
CLL	e P	Z	00:05:36.8	66.2	68.5	1.1	23	5.3		
GEC2	e P	Z	00:05:40.5	66.7	68.0	1.1	26	5.4		
BSEG	e P	Z	00:05:41.2	66.7	67.7	1.0	40	5.6		
TANN	e P	Z	00:05:41.4	66.9	67.8	1.1	21	5.3		
WET	e P	Z	00:05:43.1	67.1	67.6	1.2	23	5.3		
ROTZ	e P	Z	00:05:44.4	67.3	67.4	1.1	39	5.6		
MOX	e P	Z	00:05:44.0	67.3	67.3	1.3	31	5.4		
NRDL	e P	Z	00:05:45.4	67.4	67.0	1.1	40	5.5		
CLZ	e P	Z	00:05:45.9	67.5	66.9	1.1	49	5.6		
RJOB	e P	Z	00:05:47.0	67.7	67.0	1.3	21	5.2		
GRA1	e P	Z	00:05:48.2	67.9	66.7	1.1	50	5.7		
	e L	Z	00:28:37.4			19.6	2598		5.5	
UBBA	e P	Z	00:05:49.3	68.1	66.3	1.8	22	5.1		
FUR	e P	Z	00:05:51.9	68.5	66.2	1.0	83	5.9		
IBBN	e P	Z	00:05:53.7	68.8	65.3	1.2	29	5.4		
TNS	e P	Z	00:05:56.6	69.3	65.0	1.1	31	5.4		
BUG	e P	Z	00:05:57.7	69.4	64.7	1.2	30	5.3		

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STU	e P	Z	00:05:57.5	69.5	65.0	1.1	37	5.4
BFO	e P	Z	00:06:01.7	70.2	64.3	1.1	28	5.3
WLF	e P	Z	00:06:06.9	70.9	63.3	1.1	76	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	00:23:26.2	30.972N	102.633E	667.9N	4.7			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:33:06.6	65.7	70.1	0.7	4	4.8		
CLL	e P	Z 00:33:09.0	66.1	69.7	1.3	6	4.6		
GEC2	e P	Z 00:33:12.5	66.5	69.1	1.2	4	4.5		
TANN	e P	Z 00:33:13.4	66.7	69.0	0.8	2	4.4		
WET	e P	Z 00:33:15.3	66.9	68.7	1.5	9	4.7		
ROTZ	e P	Z 00:33:16.4	67.1	68.5	1.1	5	4.6		
NRDL	e P	Z 00:33:16.3	67.3	68.2	0.9	5	4.6		
CLZ	e P	Z 00:33:17.8	67.4	68.1	1.0	7	4.7		
GRA1	e P	Z 00:33:19.9	67.7	67.8	0.9	8	5.0		
FUR	e P	Z 00:33:24.0	68.3	67.3	0.9	12	5.1		
BUG	e P	Z 00:33:29.7	69.4	65.8	1.0	7	4.8		
BFO	e P	Z 00:33:33.7	70.0	65.5	1.1	6	4.7		
WLF	e P	Z 00:33:38.7	70.8	64.5	1.0	12	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	01:46:31.1	56.850N	160.340E	33.0N	4.7			SZGRF

Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z 01:57:33.2	68.5	15.7	0.6	8	5.2		
CLL	e P	Z 01:57:32.3	68.5	18.5	0.6	5	4.9		
BRG	e P	Z 01:57:33.8	68.8	18.9	0.8	3	4.5		
MOX	e P	Z 01:57:38.2	69.5	17.6	0.9	4	4.6		
ROTZ	e P	Z 01:57:42.7	70.2	17.9	0.9	4	4.5		
GRA1	e P	Z 01:57:44.4	70.4	17.3	0.7	11	5.1		
WET	e P	Z 01:57:45.7	70.6	18.2	1.1	6	4.6		
GEC2	e P	Z 01:57:46.0	70.7	18.6	1.0	4	4.5		
RJOB	e P	Z 01:57:54.4	72.0	18.0	0.8	5	4.7		
BFO	e P	Z 01:57:54.7	72.3	15.6	0.7	3	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	02:15:20.3	31.377N	103.904E	23.2	4.9			SZGRF

Sichuan, China



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:26:04.5	66.2	69.0	0.9	7	4.9		
	e pP	Z 02:26:11.0							
CLL	e P	Z 02:26:06.5	66.5	68.5	1.1	8	4.9		
	e P	Z 02:26:10.3	67.0	68.0	1.0	6	4.7		
GEC2	e pP	Z 02:26:17.0							
	e P	Z 02:26:11.4	67.1	67.7	1.0	18	5.3		
TANN	e P	Z 02:26:11.2	67.2	67.8	0.9	4	4.7		
	e pP	Z 02:26:17.7							
WET	e P	Z 02:26:12.7	67.4	67.6	1.1	5	4.6		
	e P	Z 02:26:14.2	67.6	67.4	0.9	8	4.9		
ROTZ	e pP	Z 02:26:20.9							
	e P	Z 02:26:13.7	67.6	67.3	1.3	8	4.8		
MOX	e P	Z 02:26:14.7	67.8	67.0	1.0	9	4.9		
	e P	Z 02:26:15.8	67.9	66.9	0.8	12	5.2		
RJOB	e P	Z 02:26:17.6	68.0	67.0	0.7	2	4.5		
	e P	Z 02:26:18.0	68.2	66.7	0.9	15	5.2		
GRA1	e pP	Z 02:26:24.5							
	e P	Z 02:26:22.5	68.8	66.2	1.1	33	5.5		
FUR	e pP	Z 02:26:28.5							
	e P	Z 02:26:27.1	69.6	65.0	0.8	8	4.9		
TNS	e P	Z 02:26:31.2	70.5	64.3	1.2	8	4.7		
	e P	Z 02:26:36.5	71.2	63.3	1.0	20	5.2		
WLF	e P	Z 02:26:36.5	71.2	63.3	1.0	20	5.2		
	e pP	Z 02:26:43.2							

Date 2008/05/13  
Origin Time 03:00:46.2  
Sichuan, China

Lat 31.701N  
Long 103.382E  
Depth 33.0N  
mb 5.0  
Ms 4.1  
ML  
Source SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:11:26.7	65.6	69.1	1.1	8	4.9		
CLL	e P	Z 03:11:29.2	66.0	68.6	1.1	8	4.9		
GEC2	e P	Z 03:11:32.6	66.5	68.1	1.2	7	4.7		
BSEG	e P	Z 03:11:32.9	66.5	67.8	1.1	17	5.2		
TANN	e P	Z 03:11:33.5	66.7	67.9	1.1	6	4.7		
WET	e P	Z 03:11:35.4	66.9	67.7	1.5	10	4.8		
ROTZ	e P	Z 03:11:36.5	67.1	67.5	1.0	11	5.0		
MOX	e P	Z 03:11:35.7	67.1	67.4	1.3	6	4.7		
NRDL	e P	Z 03:11:37.2	67.2	67.1	1.3	18	5.1		
CLZ	e P	Z 03:11:37.8	67.3	67.0	1.0	12	5.1		
RJOB	e P	Z 03:11:38.8	67.5	67.1	1.1	5	4.6		
	e P	Z 03:11:40.5	67.7	66.8	1.2	24	5.3		
GRA1	e L	Z 03:42:33.6			21.7	134		4.1	
	e P	Z 03:11:44.2	68.2	66.3	0.8	19	5.4		
FUR	e P	Z 03:11:44.2	68.2	66.3	0.8	19	5.4		
BUG	e P	Z 03:11:49.9	69.2	64.8	1.1	10	5.0		
BFO	e P	Z 03:11:54.0	70.0	64.4	1.0	6	4.7		
WLF	e P	Z 03:11:59.0	70.7	63.4	1.0	23	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	05:36:35.7	32.610N	105.035E	33.0N	4.9			SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:47:32.0	68.0	65.0	1.0	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	07:07:11.2	30.659N	103.507E	33.0N	5.9	5.7		SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:17:57.0	66.4	69.8	1.2	68	5.8		
CLL	e P	Z 07:17:59.2	66.8	69.3	1.3	79	5.8		
GEC2	e P	Z 07:18:02.8	67.3	68.8	1.3	60	5.7		
BSEG	e P	Z 07:18:03.7	67.4	68.5	1.1	127	6.0		
TANN	e P	Z 07:18:03.7	67.5	68.6	1.3	68	5.7		
WET	e P	Z 07:18:05.4	67.7	68.4	1.8	134	5.9		
ROTZ	e P	Z 07:18:06.7	67.9	68.2	1.2	98	5.9		
MOX	e P	Z 07:18:06.3	67.9	68.1	1.7	120	5.8		
CLZ	e P	Z 07:18:08.3	68.2	67.7	1.2	119	6.0		
RJOB	e P	Z 07:18:09.2	68.3	67.8	1.6	123	5.9		
GRA1	e P	Z 07:18:10.5	68.5	67.5	1.3	153	6.1		
	e PP	Z 07:20:44.0							
	e S	T 07:27:14.6							
	e L	Z 07:49:08.9			18.9	4177		5.7	
UBBA	e P	Z 07:18:11.6	68.8	67.1	2.0	145	5.9		
FUR	e P	Z 07:18:14.1	69.0	67.0	1.3	231	6.3		
IBBN	e P	Z 07:18:16.3	69.5	66.1	1.4	102	5.8		
TNS	e P	Z 07:18:19.1	69.9	65.8	1.3	84	5.7		
STU	e P	Z 07:18:19.9	70.1	65.8	1.2	101	5.8		
BUG	e P	Z 07:18:20.2	70.1	65.4	1.2	90	5.8		
BFO	e P	Z 07:18:24.0	70.8	65.1	1.3	81	5.7		
WLF	e P	Z 07:18:29.2	71.5	64.1	1.2	168	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	07:19:16.1	31.810N	105.060E	16.5	5.0			SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:30:05.9	66.5	67.9	1.2	11	4.9		
	e pP	Z 07:30:10.0							

CLL	e P	Z	07:30:07.9	66.9	67.4	1.0	7	4.8
BSEG	e P	Z	07:30:10.9	67.4	66.6			
GEC2	e P	Z	07:30:11.3	67.4	66.9	1.2	10	4.9
	e pP	Z	07:30:16.1					
TANN	e P	Z	07:30:11.8	67.6	66.7	1.2	8	4.8
WET	e P	Z	07:30:14.1	67.8	66.5	1.4	13	5.0
MOX	e P	Z	07:30:15.0	68.0	66.2	1.7	16	5.0
ROTZ	e P	Z	07:30:14.8	68.0	66.3	1.2	12	5.0
NRDL	e P	Z	07:30:15.8	68.1	65.9	1.1	14	5.1
	e pP	Z	07:30:20.3					
CLZ	e P	Z	07:30:16.0	68.2	65.8	1.2	25	5.3
	e pP	Z	07:30:21.0					
GRA1	e P	Z	07:30:18.7	68.6	65.6	1.7	25	5.2
	e pP	Z	07:30:23.5					
BFO	e P	Z	07:30:32.2	70.9	63.3	1.4	9	4.7
WLF	e P	Z	07:30:37.2	71.5	62.3	1.0	26	5.3
	e pP	Z	07:30:42.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/13 08:20:51.7 30.616N 104.156E 17.7 5.0  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:31:53.7	68.9	67.1	0.9	10	5.0		
	e pP	Z 08:31:58.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/13 10:16: 9.1 31.191N 104.221E 33.0N 5.0  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:27:08.7	68.5	66.6	0.9	10	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/13 10:29:20.3 4.200N 94.720E 52.1 5.6 4.5  
 Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 10:41:29.7	80.9	94.5	1.8	134	5.7		
	e pP	Z 10:41:44.6							
GEC2	e P	Z 10:41:30.0	80.9	94.0	1.4	126	5.8		
RJOB	e P	Z 10:41:32.1	81.5	93.2	1.3	47	5.3		
WET	e P	Z 10:41:32.8	81.5	93.4	1.8	130	5.7		

	e pP	Z	10:41:47.8								
CLL	e P	Z	10:41:32.4	81.5	93.8	1.2	36	5.4			
TANN	e P	Z	10:41:34.4	81.8	93.3	2.0	87	5.5			
	e pP	Z	10:41:49.2								
ROTZ	e P	Z	10:41:35.6	82.0	93.0	1.4	59	5.5			
MOX	e P	Z	10:41:37.3	82.4	92.7	1.6	65	5.5			
	e pP	Z	10:41:52.3								
FUR	e P	Z	10:41:37.6	82.5	92.1	1.4	63	5.7			
GRA1	e P	Z	10:41:38.8	82.6	92.2	1.3	88	5.8			
	e pP	Z	10:41:53.8								
	e L	Z	11:25:05.0				21.4	223		4.5	
CLZ	e P	Z	10:41:41.4	83.2	91.8	1.3	61	5.7			
	e pP	Z	10:41:56.8								
BSEG	e P	Z	10:41:42.0	83.3	92.0	1.4	114	5.9			
NRDL	e P	Z	10:41:42.6	83.4	91.7	1.6	127	5.9			
	e pP	Z	10:41:57.3								
UBBA	e P	Z	10:41:42.5	83.4	91.4	1.6	33	5.3			
STU	e P	Z	10:41:45.0	83.9	90.6	1.8	74	5.6			
TNS	e P	Z	10:41:47.7	84.4	90.2	1.3	63	5.7			
	e pP	Z	10:42:02.6								
BFO	e P	Z	10:41:47.6	84.5	89.9	1.1	26	5.4			
	e pP	Z	10:42:02.8								
IBBN	e P	Z	10:41:49.8	84.8	89.8	1.4	83	5.8			
	e pP	Z	10:42:04.8								
BUG	e P	Z	10:41:51.3	85.1	89.4	1.4	72	5.7			
	e pP	Z	10:42:06.4								
WLF	e P	Z	10:41:55.5	85.9	88.4	1.5	60	5.5			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/13 12:51:51.0 34.720N 105.880E 33.0N 5.1 4.5  
 Gansu, China SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:02:40.8	67.0	62.9	1.4	16	5.1		
	e L	Z 13:34:01.0			19.5	294		4.5	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/13 14:14:30.8 16.400N 122.300E 41.0 4.9 4.7  
 Luzon, Philippine Islands NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:27:28.6	90.5	63.5	1.0	6	4.9		
	e L	Z 15:13:46.7			19.2	285		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	16:23:43.9	30.140N	105.530E	33.0N	5.0	4.3		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	16:34:39.5	68.0	68.8	1.4	11	4.9		
CLL	e P	Z	16:34:41.8	68.4	68.3	0.9	7	4.8		
GEC2	e P	Z	16:34:45.3	68.9	67.9	1.3	11	4.9		
BSEG	e P	Z	16:34:46.1	68.9	67.4	1.0	16	5.2		
TANN	e P	Z	16:34:46.3	69.1	67.6	1.6	12	4.9		
WET	e P	Z	16:34:48.3	69.3	67.4	1.8	17	5.0		
ROTZ	e P	Z	16:34:49.5	69.5	67.2	1.3	14	4.9		
MOX	e P	Z	16:34:48.8	69.5	67.1	1.3	9	4.7		
NRDL	e P	Z	16:34:49.6	69.6	66.7	1.8	36	5.2		
CLZ	e P	Z	16:34:50.8	69.7	66.7	1.5	22	5.1		
RJOB	e P	Z	16:34:51.7	69.9	66.9	1.7	13	4.8		
GRA1	e P	Z	16:34:53.3	70.1	66.5	1.6	39	5.3		
	e L	Z	17:06:10.6			21.3	172		4.3	
UBBA	e P	Z	16:34:55.1	70.3	66.1	1.5	13	4.8		
TNS	e P	Z	16:35:01.2	71.5	64.8	1.4	14	4.9		
BFO	e P	Z	16:35:06.5	72.4	64.2	1.4	10	4.7		
WLF	e P	Z	16:35:10.4	73.0	63.1	1.1	21	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	18:28: 2.5	23.288N	121.120E	33.0N	5.3	5.1		SZGRF

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:40:31.4	84.3	60.2	2.5	49	5.3		
	e L	Z	19:24:13.2			21.7	790		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	20:20:46.2	46.247N	153.193E	34.2	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:32:22.9	75.0	25.6	0.9	9	4.9		
NRDL	e P	Z	20:32:31.5	76.3	25.3	1.0	10	4.8		
CLL	e P	Z	20:32:32.7	76.6	27.1	0.7	14	5.1		
BRG	e P	Z	20:32:33.5	76.7	27.6	1.1	6	4.5		
CLZ	e P	Z	20:32:34.9	76.8	25.4	1.2	23	5.1		
	e sP	Z	20:32:48.4							
IBBN	e P	Z	20:32:36.0	77.1	23.7	0.7	21	5.3		
TANN	e P	Z	20:32:38.6	77.6	26.6	1.0	3	4.3		

	e pP	Z	20:32:48.6						
	e sP	Z	20:32:53.1						
MOX	e P	Z	20:32:38.8	77.6	26.1	1.1	12	4.8	
UBBA	e P	Z	20:32:40.2	77.9	25.1	0.9	4	4.4	
BUG	e P	Z	20:32:41.0	78.0	23.3	0.6	11	5.2	
ROTZ	e P	Z	20:32:42.7	78.2	26.4	1.1	10	4.8	
	e sP	Z	20:32:55.9						
GRA1	e P	Z	20:32:44.6	78.6	25.8	0.8	24	5.4	
	e pP	Z	20:32:54.4						
	e sP	Z	20:32:59.0						
WET	e P	Z	20:32:44.7	78.6	26.8	0.9	12	5.0	
GEC2	e P	Z	20:32:44.3	78.6	27.3	0.8	6	4.8	
	e pP	Z	20:32:53.9						
	e sP	Z	20:32:59.8						
TNS	e P	Z	20:32:45.9	78.8	24.0	0.8	18	5.2	
RJOB	e P	Z	20:32:51.3	79.8	26.6	0.9	7	4.8	
FUR	e P	Z	20:32:52.0	79.9	25.7	1.1	17	5.1	
STU	e P	Z	20:32:51.9	79.9	24.4	1.1	17	5.1	
BFO	e P	Z	20:32:55.3	80.6	23.8	1.0	13	5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/13	21:48:33.1	16.500N	122.300E	56.0	5.1			NEIC
Luzon, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:01:28.9	90.4	63.5	1.2	12	5.1		
	e L	Z 22:44:31.5			21.7	325			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/14	02:54:46.3	31.850N	102.770E	33.0N	5.7	5.5		SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:05:26.0	65.1	69.4	1.1	46	5.6		
CLL	e P	Z 03:05:28.7	65.5	68.9	1.1	47	5.6		
GEC2	e P	Z 03:05:31.8	66.0	68.4	1.2	45	5.6		
BSEG	e P	Z 03:05:32.4	66.1	68.2	1.3	96	5.9		
TANN	e P	Z 03:05:32.8	66.2	68.2	1.0	34	5.5		
WET	e P	Z 03:05:34.6	66.4	68.0	1.1	27	5.4		
ROTZ	e P	Z 03:05:35.8	66.6	67.8	1.0	68	5.8		
MOX	e P	Z 03:05:35.8	66.6	67.7	1.0	24	5.4		
NRDL	e P	Z 03:05:36.9	66.8	67.4	1.1	66	5.8		
CLZ	e P	Z 03:05:37.4	66.9	67.4	0.9	78	5.9		
GRA1	e P	Z 03:05:39.6	67.2	67.1	1.0	81	5.9		
	e S	T 03:14:38.4							

	e L	T	03:33:20.5			20.7	3264		5.5
UBBA	e P	Z	03:05:40.8	67.5	66.7	1.5	24	5.2	
FUR	e P	Z	03:05:43.4	67.8	66.5	1.2	142	6.1	
STU	e P	Z	03:05:49.0	68.8	65.4	0.9	51	5.8	
BUG	e P	Z	03:05:49.7	68.8	65.1	1.0	50	5.7	
BFO	e P	Z	03:05:53.2	69.5	64.7	1.1	43	5.5	
WLF	e P	Z	03:05:58.4	70.2	63.7	1.1	144	6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/14	05:55:5.8	32.310N	103.430E	33.0N	5.3	4.9		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 06:05:44.5	65.2	68.6	1.2	24	5.3		
CLL	e P	Z 06:05:46.6	65.6	68.1	1.0	17	5.2		
GEC2	e P	Z 06:05:50.4	66.1	67.6	1.2	22	5.3		
BSEG	e P	Z 06:05:50.7	66.1	67.4	1.0	40	5.6		
TANN	e P	Z 06:05:51.2	66.2	67.4	1.3	22	5.2		
WET	e P	Z 06:05:52.9	66.5	67.2	1.3	16	5.1		
ROTZ	e P	Z 06:05:54.1	66.6	67.0	1.2	32	5.4		
MOX	e P	Z 06:05:53.6	66.7	66.9	1.0	9	5.0		
NRDL	e P	Z 06:05:54.9	66.8	66.6	1.2	33	5.4		
CLZ	e P	Z 06:05:55.5	66.9	66.6	1.1	35	5.5		
GRA1	e P	Z 06:05:57.8	67.3	66.3	1.3	48	5.6		
	e L	Z 06:37:25.1			19.0	637		4.9	
UBBA	e P	Z 06:05:58.8	67.5	65.9	1.5	16	5.0		
FUR	e P	Z 06:06:02.0	67.9	65.8	0.9	72	5.9		
TNS	e P	Z 06:06:06.5	68.7	64.7	0.9	16	5.2		
BUG	e P	Z 06:06:07.4	68.8	64.3	1.4	44	5.5		
STU	e P	Z 06:06:07.5	68.8	64.7	1.0	25	5.4		
BFO	e P	Z 06:06:11.6	69.6	64.0	1.2	20	5.1		
WLF	e P	Z 06:06:16.7	70.2	63.0	1.2	64	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/14	09:26:46.7	31.410N	103.200E	16.1	5.3	5.2		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 09:37:32.2	65.7	69.4	1.2	16	5.1		
CLL	e P	Z 09:37:34.6	66.1	69.0	1.2	13	5.1		
GEC2	e P	Z 09:37:38.1	66.6	68.4	1.5	19	5.1		
BSEG	e P	Z 09:37:38.8	66.7	68.2	1.0	28	5.4		
TANN	e P	Z 09:37:39.1	66.8	68.2	1.6	26	5.2		
WET	e P	Z 09:37:40.9	67.0	68.0	1.9	30	5.2		
ROTZ	e P	Z 09:37:42.0	67.2	67.8	1.6	41	5.4		

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MOX	e P	Z	09:37:42.1	67.2	67.8	1.7	28	5.2
NRDL	e P	Z	09:37:42.9	67.3	67.5	1.7	63	5.6
CLZ	e P	Z	09:37:43.4	67.4	67.4	1.3	21	5.2
GRA1	e P	Z	09:37:45.8	67.8	67.1	1.3	45	5.5
	e pP	Z	09:37:50.3					
	e L	Z	10:09:17.1			18.0	1226	5.2
UBBA	e P	Z	09:37:46.9	68.0	66.7	1.1	8	4.8
FUR	e P	Z	09:37:49.5	68.3	66.6	0.5	30	5.8
IBBN	e P	Z	09:37:52.0	68.7	65.8	0.9	12	5.1
TNS	e P	Z	09:37:54.2	69.2	65.5	0.9	12	5.1
STU	e P	Z	09:37:55.0	69.4	65.5	0.7	15	5.2
BUG	e P	Z	09:37:55.7	69.4	65.1	1.1	24	5.3
BFO	e P	Z	09:37:59.3	70.1	64.8	1.4	18	5.0
WLF	e P	Z	09:38:04.5	70.8	63.8	1.2	55	5.6

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/14 17:17:46.4 33.151N 100.750E 33.0N 4.9  
 Qinghai, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:28:10.6	63.0	69.7					
CLL	e P	Z	17:28:13.0	63.4	69.3	1.1	3	4.4		
GEC2	e P	Z	17:28:16.7	63.9	68.6					
BSEG	e P	Z	17:28:17.1	64.0	68.7	1.0	10	5.0		
TANN	e P	Z	17:28:17.7	64.1	68.5	1.2	4	4.5		
WET	e P	Z	17:28:19.0	64.3	68.2					
ROTZ	e P	Z	17:28:20.4	64.5	68.1	1.0	5	4.7		
NRDL	e P	Z	17:28:21.7	64.7	67.9	1.7	24	5.2		
CLZ	e P	Z	17:28:22.1	64.7	67.8	0.8	6	4.9		
GRA1	e P	Z	17:28:24.2	65.1	67.4	1.5	18	5.1		
FUR	e P	Z	17:28:28.3	65.6	66.8					
WLF	e P	Z	17:28:43.4	68.1	64.1	1.2	14	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/14 17:33:38.1 31.978N 102.148E 33.0N 4.8 4.8  
 Sichuan, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:44:12.9	64.7	69.7	0.9	5	4.7		
CLL	e P	Z	17:44:15.0	65.1	69.3	1.1	5	4.7		
GEC2	e P	Z	17:44:18.7	65.6	68.7	1.1	7	4.8		
BSEG	e P	Z	17:44:18.7	65.7	68.5	0.9	10	5.0		
TANN	e P	Z	17:44:19.7	65.7	68.5					
WET	e P	Z	17:44:21.2	65.9	68.3	0.9	3	4.5		
ROTZ	e P	Z	17:44:22.6	66.1	68.1					



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MOX	e P	Z	17:44:23.5	66.1	68.0	1.2	6	4.7	
NRDL	e P	Z	17:44:23.8	66.3	67.8				
CLZ	e P	Z	17:44:23.9	66.4	67.7	1.0	8	4.9	
GRA1	e P	Z	17:44:26.4	66.7	67.4	1.1	14	5.1	
	e L	Z	18:15:40.8			18.2	516		4.8
BFO	e P	Z	17:44:40.2	69.0	65.0	1.0	6	4.8	
WLF	e P	Z	17:44:45.6	69.7	64.1				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/14	21:01: 8.8	30.947N	104.088E	15.8	5.4	4.6		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 21:11:55.5	66.6	69.2	0.9	21	5.4		
CLL	e P	Z 21:11:57.6	67.0	68.7	1.1	21	5.3		
GEC2	e P	Z 21:12:01.4	67.5	68.2	1.1	22	5.3		
BSEG	e P	Z 21:12:01.8	67.5	67.9	0.9	33	5.6		
TANN	e P	Z 21:12:02.2	67.6	68.0	0.9	15	5.2		
WET	e P	Z 21:12:04.0	67.8	67.8	1.3	19	5.2		
ROTZ	e P	Z 21:12:05.2	68.0	67.6	1.0	33	5.5		
MOX	e P	Z 21:12:04.7	68.0	67.5	1.3	21	5.2		
NRDL	e P	Z 21:12:06.0	68.2	67.2	1.2	28	5.4		
CLZ	e P	Z 21:12:06.6	68.3	67.1	1.0	35	5.6		
GRA1	e P	Z 21:12:09.0	68.6	66.9	0.9	43	5.7		
	e pP	Z 21:12:13.5							
	e L	Z 21:43:39.1			18.7	338		4.6	
UBBA	e P	Z 21:12:09.9	68.9	66.5					
FUR	e P	Z 21:12:12.8	69.2	66.4	1.0	85	5.9		
IBBN	e P	Z 21:12:14.4	69.6	65.5	1.5	33	5.3		
TNS	e P	Z 21:12:17.4	70.0	65.2	1.0	20	5.2		
BUG	e P	Z 21:12:18.4	70.2	64.8	1.5	32	5.2		
STU	e P	Z 21:12:18.4	70.2	65.2	1.0	32	5.4		
BFO	e P	Z 21:12:22.5	70.9	64.5	1.0	20	5.2		
WLF	e P	Z 21:12:27.6	71.6	63.5	1.1	63	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/14	22:44:55.0	21.180S	177.690W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 23:04:33.2	146.7	13.7					
NRDL	e PKPbc	Z 23:04:37.1	148.1	13.9					
IBBN	e PKPbc	Z 23:04:38.8	148.6	9.8					
	e PKPab	Z 23:04:42.1							
CLZ	e PKPbc	Z 23:04:39.1	148.7	14.6					

	e	PKPab	Z	23:04:42.5					
CLL	e	PKPbc	Z	23:04:38.8	148.7	19.5			
BRG	e	PKPbc	Z	23:04:39.5	148.9	21.4			
	e	PKPab	Z	23:04:43.4					
BUG	e	PKPbc	Z	23:04:40.7	149.5	9.1			
MOX	e	PKPbc	Z	23:04:41.2	149.6	17.4			
TANN	e	PKPbc	Z	23:04:41.5	149.7	19.0			
UBBA	e	PKPbc	Z	23:04:41.5	149.8	14.3			
ROTZ	e	PKPbc	Z	23:04:43.3	150.4	18.9			
TNS	e	PKPbc	Z	23:04:43.5	150.6	11.7			
	e	PKPab	Z	23:04:50.4					
GRA1	e	PKPbc	Z	23:04:43.8	150.6	17.1			
	e	PKPab	Z	23:04:50.8					
WET	e	PKPbc	Z	23:04:44.2	150.8	20.5			
	e	PKPab	Z	23:04:51.5					
GEC2	e	PKPbc	Z	23:04:44.3	150.9	22.2			
WLF	e	PKPbc	Z	23:04:45.9	151.4	7.5			
STU	e	PKPbc	Z	23:04:46.6	151.9	13.7			
FUR	e	PKPbc	Z	23:04:46.8	152.1	18.1			
	e	PKPab	Z	23:04:57.0					
BFO	e	PKPbc	Z	23:04:47.6	152.4	12.2			
	e	PKPab	Z	23:04:57.6					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/15 00:49:15.6 7.588N 38.316W 33.0N 4.9 4.1  
 Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:59:11.6	58.9	241.8	1.0	8	4.9		
	e L	Z 01:20:17.1			20.4	107		4.1	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/15 05:27:56.9 32.240N 103.170E 33.0N 5.1  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:38:35.8	65.1	68.8	0.8	9	5.1		
CLL	e P	Z 05:38:38.4	65.5	68.4	0.9	11	5.1		
GEC2	e P	Z 05:38:41.4	66.0	67.8	1.1	8	4.9		
BSEG	e P	Z 05:38:42.1	66.0	67.6	0.8	18	5.3		
TANN	e P	Z 05:38:42.5	66.1	67.6	0.9	7	4.9		
WET	e P	Z 05:38:44.3	66.4	67.4	0.9	6	4.8		
ROTZ	e P	Z 05:38:45.6	66.5	67.2	0.8	12	5.2		
MOX	e P	Z 05:38:45.1	66.6	67.2	0.8	5	4.8		
NRDL	e P	Z 05:38:46.0	66.7	66.9	0.9	13	5.2		

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CLZ	e P	Z	05:38:47.0	66.8	66.8	0.8	19	5.4
GRA1	e P	Z	05:38:49.3	67.2	66.5	0.8	18	5.4
FUR	e P	Z	05:38:53.5	67.7	66.0	0.6	23	5.6
BFO	e P	Z	05:39:02.8	69.4	64.2	1.1	9	4.8
WLF	e P	Z	05:39:08.1	70.1	63.2	1.0	28	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/15	09:46:42.1	35.447N	69.912E	205.2	4.8			SZGRF
Hindu Kush, Afghanistan, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 09:54:15.6	42.5	89.0	1.0	16	4.7		
	e pP	Z 09:54:59.6							
GEC2	e P	Z 09:54:17.8	42.7	86.6	1.2	5	4.1		
CLL	e P	Z 09:54:19.9	43.1	88.7	0.8	8	4.5		
RJOB	e P	Z 09:54:23.2	43.4	84.8	0.9	9	4.7		
TANN	e P	Z 09:54:23.0	43.4	87.4	1.0	6	4.4		
ROTZ	e P	Z 09:54:26.0	43.6	86.5	1.1	13	4.8		
	e pP	Z 09:55:10.5							
MOX	e P	Z 09:54:27.6	44.0	87.0	1.0	9	4.6		
	e pP	Z 09:55:13.8							
GRA1	e P	Z 09:54:31.2	44.3	85.7	1.1	11	4.7		
BSEG	e P	Z 09:54:32.5	44.6	89.3	1.1	23	5.1		
CLZ	e P	Z 09:54:32.9	44.7	87.3	1.4	29	5.1		
NRDL	e P	Z 09:54:34.0	44.8	87.7	1.1	15	4.9		
UBBA	e P	Z 09:54:35.4	45.0	86.0	0.6	5	4.7		
STU	e P	Z 09:54:41.8	45.7	83.4	1.1	12	4.9		
TNS	e P	Z 09:54:43.8	46.0	84.3	0.8	14	5.2		
IBBN	e P	Z 09:54:45.4	46.2	85.8	0.7	24	5.4		
BFO	e P	Z 09:54:45.7	46.3	82.4	0.8	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/15	14:06:13.3	21.970S	173.450W	36.5				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 14:25:54.4	147.9	6.6					
NRDL	e PKPbc	Z 14:25:58.2	149.4	6.5					
IBBN	e PKPbc	Z 14:25:59.2	149.6	2.2					
CLZ	e PKPbc	Z 14:26:00.2	150.0	7.1					
CLL	e PKPbc	Z 14:26:00.6	150.2	12.1					
	e pPKPbc	Z 14:26:11.7							
BUG	e PKPbc	Z 14:26:01.1	150.5	1.4					
BRG	e PKPbc	Z 14:26:01.5	150.5	14.0					
	e pPKPbc	Z 14:26:12.5							

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UBBA	e	PKPbc	Z	14:26:02.2	151.0	6.6
MOX	e	PKPbc	Z	14:26:02.5	151.1	9.7
	e	pPKPbc	Z	14:26:13.7		
TANN	e	PKPbc	Z	14:26:03.2	151.2	11.4
	e	pPKPbc	Z	14:26:14.0		
TNS	e	PKPbc	Z	14:26:04.3	151.7	3.7
ROTZ	e	PKPbc	Z	14:26:04.8	151.8	11.2
GRA1	e	PKPbc	Z	14:26:05.2	152.0	9.3
WLF	e	PKPbc	Z	14:26:06.2	152.3	359.2
	e	pPKPbc	Z	14:26:17.2		
WET	e	PKPbc	Z	14:26:05.9	152.4	12.7
GEC2	e	PKPbc	Z	14:26:06.1	152.5	14.5
	e	pPKPbc	Z	14:26:17.4		
BFO	e	PKPbc	Z	14:26:08.1	153.6	3.7
RJOB	e	PKPbc	Z	14:26:08.8	153.7	13.2
	e	pPKPbc	Z	14:26:19.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/15	14:23:32.5	56.970S	24.590W	33.0N		5.8		SZGRF

South Sandwich Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pdiff	Z 14:37:54.6	108.8	198.2					
	e PP	Z 14:42:24.8							
	e SP	Z 14:51:45.0							
RJOB	e Pdiff	Z 14:37:55.9	109.2	200.5					
	e PP	Z 14:42:26.5							
	e SP	Z 14:51:49.5							
FUR	e Pdiff	Z 14:37:56.6	109.3	199.8					
	e PP	Z 14:42:26.0							
	e SP	Z 14:51:49.0							
STU	e Pdiff	Z 14:37:59.1	109.4	198.7					
	e PP	Z 14:42:27.4							
	e SP	Z 14:51:50.6							
WLF	e Pdiff	Z 14:37:59.0	109.6	197.2					
	e PP	Z 14:42:28.6							
	e SP	Z 14:51:56.7							
GEC2	e Pdiff	Z 14:38:01.9	110.5	201.1					
	e PP	Z 14:42:35.6							
WET	e Pdiff	Z 14:38:03.1	110.6	200.7					
	e PP	Z 14:42:36.2							
	e SP	Z 14:52:04.6							
TNS	e Pdiff	Z 14:38:03.3	110.6	198.5					
	e PP	Z 14:42:35.9							
	e SP	Z 14:52:06.5							
GRA1	e Pdiff	Z 14:38:04.4	110.7	199.9					
	e PP	Z 14:42:36.9							

	e SP	Z	14:52:05.3							
	e L	Z	15:23:44.3			21.4	2977	5.8		
ROTZ	e Pdiff	Z	14:38:06.1	111.0	200.5					
	e PP	Z	14:42:39.0							
	e SP	Z	14:52:09.8							
UBBA	e Pdiff	Z	14:38:07.0	111.5	199.4					
	e PP	Z	14:42:42.6							
	e SP	Z	14:52:15.3							
BUG	e Pdiff	Z	14:38:08.0	111.5	198.0					
	e PP	Z	14:42:42.4							
	e SP	Z	14:52:18.1							
TANN	e Pdiff	Z	14:38:08.9	111.6	200.7					
	e PP	Z	14:42:43.9							
	e SP	Z	14:52:17.3							
MOX	e Pdiff	Z	14:38:07.1	111.7	200.3					
	e PP	Z	14:42:44.6							
	e SP	Z	14:52:17.6							
BRG	e Pdiff	Z	14:38:11.4	112.4	201.6					
	e PP	Z	14:42:48.9							
	e SP	Z	14:52:25.6							
IBBN	e Pdiff	Z	14:38:11.6	112.4	198.4					
	e PP	Z	14:42:49.7							
	e SP	Z	14:52:27.4							
CLZ	e Pdiff	Z	14:38:12.9	112.5	199.8					
	e PP	Z	14:42:50.6							
	e SP	Z	14:52:27.4							
CLL	e Pdiff	Z	14:38:11.9	112.6	201.1					
	e PP	Z	14:42:50.6							
	e SP	Z	14:52:27.4							
NRDL	e Pdiff	Z	14:38:13.8	113.1	199.7					
	e PP	Z	14:42:54.6							
	e SP	Z	14:52:32.8							
BSEG	e Pdiff	Z	14:38:21.1	114.5	200.0					
	e SP	Z	14:52:45.3							

Date 2008/05/15  
 Origin Time 16:07: 7.6  
 Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:17:44.3	65.0	67.5	0.9	4	4.6		
CLL	e P	Z 16:17:46.5	65.4	67.1	1.3	5	4.6		
BSEG	e P	Z 16:17:50.3	65.8	66.3	0.9	10	5.0		
GEC2	e P	Z 16:17:50.5	65.9	66.5	0.7	3	4.6		
TANN	e P	Z 16:17:51.3	66.0	66.3	1.1	6	4.7		
WERD	e P	Z 16:17:51.4	66.1	66.3					
NKC	e P	Z 16:17:52.2	66.1	66.3					

GUNZ	e P	Z	16:17:51.6	66.1	66.2					
WERN	e P	Z	16:17:51.8	66.2	66.2					
PLN	e P	Z	16:17:52.0	66.2	66.2					
WET	e P	Z	16:17:53.0	66.3	66.1	1.1	4	4.5		
ROTZ	e P	Z	16:17:54.0	66.5	65.9	0.9	5	4.7		
NRDL	e P	Z	16:17:54.3	66.5	65.6	0.9	7	4.9		
CLZ	e P	Z	16:17:55.2	66.7	65.5	0.8	7	4.9		
GRA1	e P	Z	16:17:58.0	67.1	65.2	0.9	11	5.1		
TNS	e P	Z	16:18:05.7	68.5	63.6	1.3	12	5.0		
BFO	e P	Z	16:18:12.2	69.4	62.9	1.6	8	4.6		
WLF	e P	Z	16:18:16.3	70.0	61.9	0.8	10	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/15 21:55:50.4 32.430N 104.650E 19.4 5.1  
 Sichuan, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:06:36.0	65.8	67.7	0.8	10	5.1		
CLL	e P	Z	22:06:37.8	66.2	67.2	1.2	12	5.0		
BSEG	e P	Z	22:06:41.8	66.7	66.4	0.9	22	5.4		
GEC2	e P	Z	22:06:42.0	66.8	66.7	1.2	14	5.1		
TANN	e P	Z	22:06:42.6	66.9	66.5	1.0	9	4.9		
WET	e P	Z	22:06:44.4	67.1	66.3	1.0	7	4.8		
MOX	e P	Z	22:06:44.8	67.3	66.0	1.1	8	4.9		
ROTZ	e P	Z	22:06:45.7	67.3	66.1	1.1	19	5.3		
NRDL	e P	Z	22:06:46.1	67.4	65.7	0.9	16	5.2		
CLZ	e P	Z	22:06:46.9	67.5	65.7	0.8	19	5.4		
GRA1	e P	Z	22:06:49.5	67.9	65.4	1.1	28	5.4		
	e pP	Z	22:06:55.0							
UBBA	e P	Z	22:06:50.6	68.1	65.0	1.4	10	4.8		
FUR	e P	Z	22:06:53.6	68.5	64.9	0.9	44	5.7		
TNS	e P	Z	22:06:57.7	69.3	63.8	1.1	16	5.1		
BUG	e P	Z	22:06:58.6	69.4	63.4	1.1	12	5.0		
STU	e P	Z	22:06:59.1	69.5	63.8	0.9	16	5.1		
BFO	e P	Z	22:07:03.0	70.2	63.1	1.0	8	4.8		
WLF	e P	Z	22:07:07.6	70.8	62.1	1.0	33	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/15 22:10:48.0 31.900N 102.220E 33.0N 5.0  
 Sichuan, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:21:24.2	64.8	69.7	0.7	6	5.0		
CLL	e P	Z	22:21:26.7	65.2	69.3	0.9	5	4.7		
GEC2	e P	Z	22:21:29.7	65.6	68.7	1.4	10	4.9		

BSEG	e P	Z	22:21:30.9	65.8	68.5	0.9	12	5.2
TANN	e P	Z	22:21:30.8	65.8	68.5	1.1	4	4.6
NKC	e P	Z	22:21:29.8	65.9	68.4	0.9	6	4.8
WERD	e P	Z	22:21:31.4	65.9	68.4	0.7	4	4.7
GUNZ	e P	Z	22:21:31.6	65.9	68.4	0.7	8	5.1
WERN	e P	Z	22:21:31.8	65.9	68.4	0.7	6	4.9
NEUB	e P	Z	22:21:30.9	65.9	68.4	0.8	12	5.2
PLN	e P	Z	22:21:32.0	66.0	68.4	1.1	17	5.2
WET	e P	Z	22:21:32.6	66.0	68.3	1.4	7	4.7
ROTZ	e P	Z	22:21:33.9	66.2	68.1	0.7	7	5.0
NRDL	e P	Z	22:21:34.8	66.4	67.8	1.2	13	5.0
CLZ	e P	Z	22:21:35.7	66.5	67.7	0.7	9	5.1
RJOB	e P	Z	22:21:36.3	66.6	67.6	1.3	10	4.9
GRA1	e P	Z	22:21:36.4	66.8	67.4	0.7	10	5.1
FUR	e P	Z	22:21:41.8	67.4	66.9	1.0	26	5.4
BFO	e P	Z	22:21:51.2	69.1	65.0	1.1	8	4.9
WLF	e P	Z	22:21:56.3	69.8	64.1	1.1	18	5.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/15 22:07: 3.0 20.530S 176.780W 33.0N  
 Fiji Islands region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	22:26:39.5	146.2	12.0					
NRDL	e PKPbc	Z	22:26:43.7	147.6	12.1					
IBBN	e PKPbc	Z	22:26:45.2	148.0	8.0					
	e PKPab	Z	22:26:47.9							
CLZ	e PKPbc	Z	22:26:45.7	148.2	12.8					
	e PKPab	Z	22:26:48.8							
CLL	e PKPbc	Z	22:26:45.5	148.3	17.6					
	e PKPab	Z	22:26:48.7							
BRG	e PKPbc	Z	22:26:46.2	148.5	19.5					
	e PKPab	Z	22:26:49.8							
MOX	e PKPbc	Z	22:26:47.8	149.2	15.5					
	e PKPab	Z	22:26:52.4							
TANN	e PKPbc	Z	22:26:48.4	149.2	17.1					
	e PKPab	Z	22:26:52.9							
UBBA	e PKPbc	Z	22:26:47.5	149.2	12.5					
ROTZ	e PKPbc	Z	22:26:50.2	149.9	17.0					
	e PKPab	Z	22:26:55.8							
TNS	e PKPbc	Z	22:26:50.4	150.0	9.8					
	e PKPab	Z	22:26:56.1							
GRA1	e PKPbc	Z	22:26:50.8	150.2	15.2					
	e PKPab	Z	22:26:56.7							
WET	e PKPbc	Z	22:26:50.9	150.4	18.5					
	e PKPab	Z	22:26:57.8							
GEC2	e PKPbc	Z	22:26:51.2	150.5	20.2					

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	e	PKPab	Z	22:26:58.0					
WLF	e	PKPbc	Z	22:26:52.4	150.8	5.6			
	e	PKPab	Z	22:26:59.5					
STU	e	PKPbc	Z	22:26:53.6	151.4	11.7			
	e	PKPab	Z	22:27:01.5					
FUR	e	PKPbc	Z	22:26:53.8	151.6	16.0			
	e	PKPab	Z	22:27:02.7					
BFO	e	PKPbc	Z	22:26:54.3	151.9	10.2			
	e	PKPab	Z	22:27:03.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	03:34:31.6	31.450N	103.230E	17.3	5.3	4.8		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:45:16.6	65.7	69.4	1.5	29	5.3		
CLL	e P	Z	03:45:18.6	66.1	68.9	1.3	21	5.2		
GEC2	e P	Z	03:45:22.4	66.6	68.4	1.4	16	5.1		
BSEG	e P	Z	03:45:23.1	66.7	68.1	0.9	37	5.6		
TANN	e P	Z	03:45:23.3	66.7	68.2	1.5	19	5.1		
WET	e P	Z	03:45:25.0	67.0	68.0	1.2	14	5.0		
ROTZ	e P	Z	03:45:26.3	67.1	67.8	1.4	30	5.3		
MOX	e P	Z	03:45:25.8	67.2	67.7	1.3	17	5.1		
NRDL	e P	Z	03:45:27.2	67.3	67.4	1.4	39	5.4		
CLZ	e P	Z	03:45:27.7	67.4	67.3	1.2	32	5.4		
GRA1	e P	Z	03:45:30.0	67.8	67.1	1.5	53	5.6		
	e pP	Z	03:45:34.8							
	e L	Z	04:16:57.2			18.1	494		4.8	
FUR	e P	Z	03:45:33.9	68.3	66.6	0.8	36	5.6		
TNS	e P	Z	03:45:38.6	69.2	65.4	1.1	17	5.2		
BFO	e P	Z	03:45:43.5	70.0	64.7	1.4	19	5.0		
WLF	e P	Z	03:45:48.8	70.8	63.7	1.3	57	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	05:07:34.0	34.210N	137.390E	351.5	5.2			SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:19:10.2	80.7	42.0	1.0	16	5.1		
BRG	e P	Z	05:19:12.6	81.5	44.2	0.8	10	5.0		
	e pP	Z	05:20:34.2							
CLL	e P	Z	05:19:14.0	81.6	43.6	0.9	24	5.3		
NRDL	e P	Z	05:19:15.9	81.9	41.7	1.2	12	5.0		
CLZ	e P	Z	05:19:18.2	82.3	41.8	0.9	32	5.5		
TANN	e P	Z	05:19:18.8	82.4	43.2	0.9	8	5.0		



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MOX	e P	Z	05:19:19.8	82.6	42.6	0.8	13	5.2
IBBN	e P	Z	05:19:21.4	83.0	39.9	0.7	41	5.8
ROTZ	e P	Z	05:19:22.2	83.0	42.9	1.3	27	5.3
	e pP	Z	05:20:43.1					
GEC2	e P	Z	05:19:21.5	83.0	43.9	0.9	12	5.1
	e pP	Z	05:20:42.4					
WET	e P	Z	05:19:22.7	83.2	43.3	1.0	8	4.9
	e pP	Z	05:20:44.1					
GRA1	e P	Z	05:19:24.6	83.5	42.2	0.8	32	5.6
	e pP	Z	05:20:45.5					
BUG	e P	Z	05:19:25.4	83.8	39.5	1.0	23	5.4
RJOB	e P	Z	05:19:28.2	84.2	43.2	1.2	9	4.9
	e pP	Z	05:20:49.4					
TNS	e P	Z	05:19:27.9	84.3	40.3	1.3	20	5.2
FUR	e P	Z	05:19:29.9	84.6	42.1	0.5	27	5.8
WLF	e P	Z	05:19:35.4	85.7	38.6	0.8	8	4.9
BFO	e P	Z	05:19:34.8	85.8	40.1	0.7	6	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	05:25:42.8	31.270N	105.230E	33.0N	5.6	5.8		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:36:33.8	67.0	68.2	1.0	29	5.5		
CLL	e P	Z 05:36:36.5	67.4	67.7	1.0	33	5.5		
TANN	e P	Z 05:36:40.6	68.1	67.0	1.2	40	5.5		
WET	e P	Z 05:36:42.3	68.3	66.8	1.1	24	5.4		
MOX	e P	Z 05:36:43.2	68.5	66.5	1.6	79	5.7		
ROTZ	e P	Z 05:36:43.7	68.5	66.6	1.1	46	5.6		
CLZ	e P	Z 05:36:45.1	68.7	66.1	1.0	77	5.9		
RJOB	e P	Z 05:36:46.2	68.9	66.2	1.1	27	5.4		
GRA1	e P	Z 05:36:47.4	69.1	65.9	1.6	184	6.1		
	e S	R 05:45:51.5							
	e L	T 06:03:43.9			21.1	5255		5.8	
UBBA	e P	Z 05:36:48.4	69.3	65.5	1.5	28	5.2		
BFO	e P	Z 05:37:00.9	71.4	63.6	1.0	32	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	11:06:51.7	32.200S	178.400W	35.0		5.6		NEIC

South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z 11:27:14.9	157.4	19.5					
CLL	e PKPab	Z 11:27:22.2	159.1	28.0					
BRG	e PKPab	Z 11:27:22.9	159.2	30.7					

CLZ	e	PKPab	Z	11:27:23.5	159.3	21.5					
IBBN	e	PKPab	Z	11:27:23.5	159.4	15.0					
TANN	e	PKPab	Z	11:27:27.0	160.1	27.9					
MOX	e	PKPab	Z	11:27:26.8	160.1	25.7					
BUG	e	PKPab	Z	11:27:27.5	160.3	14.4					
UBBA	e	PKPab	Z	11:27:27.7	160.4	21.6					
ROTZ	e	PKPab	Z	11:27:30.2	160.7	28.2					
GEC2	e	PKPab	Z	11:27:30.7	161.0	33.1					
WET	e	PKPab	Z	11:27:31.5	161.1	30.7					
GRA1	e	PKPab	Z	11:27:31.6	161.1	25.9					
	e	L	Z	12:48:04.6			18.3	807		5.6	
TNS	e	PKPab	Z	11:27:31.6	161.3	18.3					
WLF	e	PKPab	Z	11:27:36.3	162.2	12.7					
RJOB	e	PKPab	Z	11:27:36.7	162.3	32.7					
FUR	e	PKPab	Z	11:27:37.4	162.4	28.1					
STU	e	PKPab	Z	11:27:37.2	162.5	21.8					
BFO	e	PKPab	Z	11:27:39.4	163.1	19.9					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/16 16:14:54.1 31.439N 102.621E 33.0N 4.7 4.6  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:25:46.7	67.4	67.5	1.2	6	4.7		
	e L	Z 16:57:02.3			20.3	337		4.6	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/16 17:35:14.6 5.600S 148.600E 150.0  
 New Britain, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 17:53:49.4	121.1	55.8					
CLL	e PKPdf	Z 17:53:49.7	121.4	54.6					
	e PKKP	Z 18:03:51.7							
NRDL	e PKPdf	Z 17:53:51.5	122.1	51.1					
TANN	e PKPdf	Z 17:53:51.4	122.2	54.6					
	e PKKP	Z 18:03:48.3							
CLZ	e PKPdf	Z 17:53:51.9	122.4	51.7					
	e PKKP	Z 18:03:48.0							
GEC2	e PKPdf	Z 17:53:51.3	122.4	56.6					
	e PKKP	Z 18:03:47.2							
WET	e PKPdf	Z 17:53:52.1	122.7	55.6					
	e PKKP	Z 18:03:46.1							
ROTZ	e PKKP	Z 18:03:46.8	122.7	54.6					
GRA1	e PKPdf	Z 17:53:53.2	123.2	53.7					

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IBBN	e	PKPdf	Z	17:53:52.9	123.3	48.8
RJOB	e	PKPdf	Z	17:53:54.0	123.5	56.3
	e	PKKP	Z	18:03:43.3		
TNS	e	PKPdf	Z	17:53:55.0	124.3	50.5
	e	PKKP	Z	18:03:40.0		
BFO	e	PKPdf	Z	17:53:56.8	125.6	51.5
WLF	e	PKPdf	Z	17:53:58.9	125.8	48.4
	e	PKKP	Z	18:03:34.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	20:17:3.0	32.650N	103.410E	33.0N	5.0	5.2		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 20:27:40.7	64.9	68.3	1.0	9	5.0		
CLL	e P	Z 20:27:43.6	65.3	67.9	1.0	8	4.9		
BSEG	e P	Z 20:27:47.0	65.8	67.1	1.0	11	5.1		
GEC2	e P	Z 20:27:46.6	65.9	67.3	1.0	8	4.9		
TANN	e P	Z 20:27:47.2	66.0	67.2	1.0	8	4.9		
WET	e P	Z 20:27:49.8	66.2	66.9	1.1	6	4.8		
ROTZ	e P	Z 20:27:50.2	66.4	66.7	1.0	14	5.1		
MOX	e P	Z 20:27:49.8	66.4	66.7	0.9	6	4.8		
NRDL	e P	Z 20:27:51.2	66.5	66.4	1.1	14	5.1		
CLZ	e P	Z 20:27:52.0	66.6	66.3	1.0	17	5.2		
RJOB	e P	Z 20:27:53.7	66.8	66.3	1.4	13	5.0		
GRA1	e P	Z 20:27:54.5	67.0	66.1	0.9	18	5.3		
	e L	Z 20:59:19.3			18.7	1234		5.2	
UBBA	e P	Z 20:27:56.1	67.3	65.7	1.1	5	4.7		
FUR	e P	Z 20:27:58.3	67.6	65.5	1.0	32	5.5		
TNS	e P	Z 20:28:03.7	68.4	64.4	1.1	8	4.9		
STU	e P	Z 20:28:04.8	68.6	64.4	0.8	18	5.3		
BFO	e P	Z 20:28:07.8	69.3	63.7	1.1	12	4.9		
WLF	e P	Z 20:28:12.7	70.0	62.7	1.1	36	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	20:30:20.3	36.579N	81.325E	33.0N	4.5			SZGRF

Southern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:39:18.2	50.9	76.8	1.7	12	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	22:33:12.0	31.530N	104.940E	33.0N	4.8			SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:44:00.8	66.7	68.2	0.8	4	4.6		
CLL	e P	Z	22:44:02.9	67.0	67.7	1.6	10	4.8		
BSEG	e P	Z	22:44:06.9	67.5	66.8	1.0	18	5.3		
GEC2	e P	Z	22:44:06.2	67.6	67.2	1.0	5	4.7		
TANN	e P	Z	22:44:07.4	67.7	67.0	0.9	2	4.5		
WET	e P	Z	22:44:09.5	67.9	66.8	1.5	7	4.6		
ROTZ	e P	Z	22:44:10.4	68.1	66.6	1.4	10	4.8		
NRDL	e P	Z	22:44:11.0	68.2	66.2	1.3	10	4.9		
CLZ	e P	Z	22:44:11.8	68.3	66.1	1.1	12	5.1		
GRA1	e P	Z	22:44:14.5	68.7	65.9	1.4	14	5.0		
FUR	e P	Z	22:44:19.0	69.3	65.4	1.0	16	5.1		
TNS	e P	Z	22:44:22.6	70.1	64.2	0.8	3	4.5		
BFO	e P	Z	22:44:27.2	71.0	63.6	1.1	3	4.4		
WLF	e P	Z	22:44:32.3	71.7	62.5	1.3	19	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/16	23:48:24.7	36.640N	141.597E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:00:47.9	83.2	38.0	1.3	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/17	02:23:17.0	33.700S	179.500E	151.0				NEIC

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPab	Z	02:43:34.9	159.8	34.3					
BRG	e PKPab	Z	02:43:35.8	159.9	37.0					
CLZ	e PKPab	Z	02:43:36.7	160.2	27.6					
NEUB	e PKPab	Z	02:43:38.3	160.3	31.7					
GUNZ	e PKPab	Z	02:43:40.4	160.9	34.3					
MOX	e PKPab	Z	02:43:39.6	160.9	32.2					
UBBA	e PKPab	Z	02:43:41.3	161.2	28.1					
ROTZ	e PKPab	Z	02:43:42.8	161.4	35.0					
GRA1	e PKPab	Z	02:43:44.6	161.8	32.8					
TNS	e PKPab	Z	02:43:46.3	162.2	25.1					
BFO	e PKPab	Z	02:43:53.5	164.0	27.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/05/17 07:06:50.1  
Fiji Islands region

19.870S 178.460W 33.0N

SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 07:26:29.9	147.3	20.2					
BRG	e PKPbc	Z 07:26:30.8	147.5	22.1					
NEUB	e PKPbc	Z 07:26:31.1	147.6	18.2					
PLN	e PKPbc	Z 07:26:32.8	148.3	19.2					
TANN	e PKPbc	Z 07:26:32.9	148.3	19.8					
WERD	e PKPbc	Z 07:26:32.7	148.3	19.5					
GUNZ	e PKPbc	Z 07:26:33.0	148.3	19.6					
WERN	e PKPbc	Z 07:26:33.3	148.4	19.7					
NKC	e PKPbc	Z 07:26:33.0	148.4	19.9					
ROTZ	e PKPbc	Z 07:26:34.9	148.9	19.7					
GRA1	e PKPbc	Z 07:26:35.3	149.2	18.0					
GEC2	e PKPbc	Z 07:26:35.8	149.4	22.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/17	09:20:1.2	65.280N	140.435W	33.0N	4.8			SZGRF

Northern Yukon Territory, Canada

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:30:25.0	63.0	347.1	1.3	11	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 10:01:27.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/17	13:32:9.7	32.951N	107.299E	11.8	4.9			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:43:15.7	69.1	63.3	1.1	9	4.9		
	e pP	Z 13:43:19.0			1.1	9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/17	17:08:30.0	32.510N	104.970E	33.0N	6.0	5.7		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:19:14.1	66.0	67.4	1.3	90	5.8		
CLL	e P	Z 17:19:16.2	66.3	67.0	1.5	141	6.0		
BSEG	e P	Z 17:19:20.0	66.8	66.1	1.4	226	6.2		
GEC2	e P	Z 17:19:20.3	66.9	66.4	1.3	88	5.8		
TANN	e P	Z 17:19:20.9	67.0	66.2	1.3	85	5.8		
WET	e P	Z 17:19:22.8	67.3	66.0	1.6	140	5.9		
MOX	e P	Z 17:19:23.4	67.4	65.8	1.4	99	5.8		
ROTZ	e P	Z 17:19:24.0	67.4	65.8	1.3	156	6.1		
NRDL	e P	Z 17:19:24.5	67.5	65.4	1.5	224	6.2		
CLZ	e P	Z 17:19:25.1	67.6	65.4	1.5	256	6.2		
RJOB	e P	Z 17:19:27.1	67.9	65.4	1.6	137	5.9		
GRA1	e P	Z 17:19:27.7	68.0	65.2	1.3	202	6.2		
	e S	R 17:28:31.1							
	e PKPPKPab	Z 17:47:44.7							
	e L	Z 17:50:19.9			18.5	4152		5.7	
UBBA	e P	Z 17:19:28.6	68.3	64.8	1.8	147	5.9		
FUR	e P	Z 17:19:31.7	68.6	64.6	1.2	302	6.4		
IBBN	e P	Z 17:19:32.7	68.9	63.8	1.3	120	6.0		
TNS	e P	Z 17:19:36.0	69.4	63.5	1.2	85	5.7		
BUG	e P	Z 17:19:36.8	69.5	63.1	1.3	133	5.9		
STU	e P	Z 17:19:37.1	69.6	63.5	1.3	97	5.8		
BFO	e P	Z 17:19:41.3	70.3	62.8	1.7	158	5.9		
WLF	e P	Z 17:19:46.1	71.0	61.8	1.5	305	6.2		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/17

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:18:41.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/18 00:46: 0.2 32.125N 104.409E 33.0N 4.5 4.3 ML SZGRF  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:56:56.3	68.0	65.8	1.2	4	4.5		
	e L	Z 01:28:15.9			20.2	188		4.3	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/18 01:57:29.3 43.283N 0.043W 10.0G ML SZGRF  
 Pyrenees

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Sg	E	02:01:33.2	7.7	216.1					
BFO	e Pn	Z	01:59:19.4	7.7	232.2					
	e Sg	Z	02:01:33.7							
RJOB	e Pn	Z	01:59:53.1	10.0	248.4					
GRA1	e Sg	E	02:02:50.8	10.0	234.6					
WET	e Pn	Z	02:00:00.7	10.7	241.6					
	e Sn	N	02:01:53.4							
PLN	e Pn	Z	02:00:05.7	11.0	233.8					
GEC2	e Pn	Z	02:00:06.4	11.0	244.8					
	e Sn	E	02:02:03.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	02:33:37.0	45.274N	10.799E	10.0G			3.0	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	02:34:37.8	4.1	210.0					3.0
	e Sn	E	02:35:23.6							
WET	e Pn	Z	02:34:39.0	4.1	200.8					2.8
	e Sn	N	02:35:24.7							
GRA1	e Pn	Z	02:34:43.3	4.4	183.9					3.2
	e Pg	Z	02:34:59.4							
	e Sn	E	02:35:31.1							
ROTZ	e Pn	Z	02:34:45.2	4.6	192.5					
	e Sn	N	02:35:35.0							
WERN	e Pn	Z	02:34:52.4	5.1	192.5					
	e Sn	N	02:35:47.7							
GUNZ	e Pn	Z	02:34:53.2	5.2	192.0					
	e Sn	N	02:35:49.4							
TANN	e Pn	Z	02:34:54.4	5.3	192.9					
WERD	e Pn	Z	02:34:54.8	5.3	191.6					
PLN	e Pn	Z	02:34:54.5	5.3	190.4					
MOX	e Pn	Z	02:34:56.8	5.4	186.1					
	e Sn	E	02:35:54.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	02:59:50.0	0.153S	98.205E	24.7	4.8			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:12:30.9	86.5	94.2	1.1	6	4.7		
	e pP	Z	03:12:38.6							
RJOB	e P	Z	03:12:32.7	87.0	93.5	1.5	8	4.7		

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WET	e P	Z	03:12:33.9	87.1	93.6	0.9	3	4.5
	e pP	Z	03:12:41.0					
TANN	e pP	Z	03:12:43.6	87.4	93.4			
ROTZ	e P	Z	03:12:36.6	87.5	93.2	0.9	4	4.5
	e pP	Z	03:12:44.1					
GRA1	e P	Z	03:12:39.5	88.2	92.4	0.7	5	4.7
	e pP	Z	03:12:46.3					
CLZ	e P	Z	03:12:43.0	88.8	91.8	2.0	26	5.0
BSEG	e pP	Z	03:12:50.4	88.9	91.8			
NRDL	e P	Z	03:12:42.9	89.0	91.6	2.1	27	5.0
	e pP	Z	03:12:50.9					
BFO	e P	Z	03:12:47.7	90.0	90.2	0.9	2	4.4
IBBN	e P	Z	03:12:50.3	90.4	89.7	1.0	13	5.1
WLF	e P	Z	03:12:54.5	91.4	88.5	1.4	16	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	03:51:48.9	30.507N	102.626E	33.0N	4.7			SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:02:32.9	66.0	70.5	0.5	2	4.7		
CLL	e P	Z 04:02:35.8	66.4	70.0	1.0	2	4.4		
GEC2	e P	Z 04:02:38.6	66.9	69.5	1.2	3	4.5		
BSEG	e P	Z 04:02:39.7	67.1	69.2	1.0	10	5.0		
TANN	e P	Z 04:02:39.9	67.1	69.3	1.1	2	4.3		
GUNZ	e P	Z 04:02:40.2	67.2	69.2					
WET	e P	Z 04:02:41.2	67.3	69.1	1.2	3	4.4		
ROTZ	e P	Z 04:02:41.5	67.5	68.9	1.0	4	4.5		
MOX	e P	Z 04:02:42.9	67.5	68.8	1.0	2	4.4		
NRDL	e P	Z 04:02:43.7	67.7	68.5	1.0	6	4.8		
CLZ	e P	Z 04:02:44.3	67.8	68.4	0.9	8	4.9		
RJOB	e P	Z 04:02:45.3	67.8	68.5	1.6	11	4.8		
GRA1	e P	Z 04:02:45.7	68.1	68.2	0.9	8	5.0		
WLF	e P	Z 04:03:05.0	71.1	64.8	1.0	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:33:52.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18								



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 07:13:09.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	11:03:48.8	23.540S	171.340E	33.0G				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 11:23:26.1	146.4	32.6					
BRG	e PKPbc	Z 11:23:29.3	147.6	41.1					
CLL	e PKPbc	Z 11:23:29.4	147.6	39.2					
	e PKPab	Z 11:23:31.8							
NRDL	e PKPbc	Z 11:23:28.9	147.7	33.5					
CLZ	e PKPbc	Z 11:23:31.0	148.2	34.5					
	e PKPab	Z 11:23:34.3							
TANN	e PKPbc	Z 11:23:32.1	148.5	39.2					
IBBN	e PKPbc	Z 11:23:32.0	148.6	29.8					
	e PKPab	Z 11:23:37.0							
MOX	e PKPbc	Z 11:23:32.5	148.7	37.7					
	e PKPab	Z 11:23:36.3							
ROTZ	e PKPbc	Z 11:23:33.8	149.1	39.5					
	e PKPab	Z 11:23:38.2							
UBBA	e PKPbc	Z 11:23:33.4	149.1	34.9					
GEC2	e PKPbc	Z 11:23:34.1	149.2	42.9					
WET	e PKPbc	Z 11:23:34.6	149.3	41.3					
	e PKPab	Z 11:23:38.5							
GRA1	e PKPbc	Z 11:23:34.9	149.6	38.0					
	e PKPab	Z 11:23:40.0							
TNS	e PKPbc	Z 11:23:36.5	150.2	32.8					
RJOB	e PKPbc	Z 11:23:36.4	150.4	42.7					
FUR	e PKPbc	Z 11:23:37.6	150.7	39.8					
	e PKPab	Z 11:23:44.7							
STU	e PKPbc	Z 11:23:39.2	151.1	35.6					
	e PKPab	Z 11:23:46.5							
WLF	e PKPbc	Z 11:23:39.0	151.4	29.3					
BFO	e PKPbc	Z 11:23:39.9	151.8	34.5					
	e PKPab	Z 11:23:48.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	12:17:26.3	4.170S	100.230E	54.8		5.1		SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 12:30:24.1	90.9	95.4	1.1	32			

	e pP	Z	12:30:39.9					
	e PP	Z	12:34:01.2					
	e S	T	12:41:16.0					
BRG	e P	Z	12:30:23.9	90.9	95.5	1.0	26	
	e PP	Z	12:34:00.4					
	e S	T	12:41:16.0					
RUE	e P	Z	12:30:24.7	91.1	95.4	1.2	65	
	e pP	Z	12:30:40.9					
RJOB	e P	Z	12:30:25.6	91.4	94.7	0.9	25	
	e PP	Z	12:34:05.2					
	e S	T	12:41:19.4					
WET	e P	Z	12:30:26.6	91.4	94.7	1.1	29	
	e pP	Z	12:30:42.6					
	e PP	Z	12:34:05.5					
	e S	T	12:41:22.0					
CLL	e P	Z	12:30:26.3	91.5	94.8	1.2	19	
	e PP	Z	12:34:05.7					
	e S	T	12:41:20.8					
TANN	e P	Z	12:30:28.1	91.8	94.4	1.1	12	
	e pP	Z	12:30:43.9					
	e PP	Z	12:34:07.2					
	e S	T	12:41:25.5					
ROTZ	e P	Z	12:30:29.2	91.9	94.2	1.1	20	
	e PP	Z	12:34:08.5					
	e S	T	12:41:27.6					
MOX	e P	Z	12:30:30.5	92.3	93.7	1.1	13	
	e pP	Z	12:30:46.3					
	e PP	Z	12:34:11.7					
	e S	T	12:41:29.7					
FUR	e P	Z	12:30:30.6	92.4	93.6	0.9	20	
GRA1	e P	Z	12:30:31.8	92.5	93.5	1.0	26	
	e pP	Z	12:30:47.3					
	e S	T	12:41:34.5					
	e L	Z	13:21:37.7			19.7	634	5.1
CLZ	e P	Z	12:30:34.3	93.2	92.7	1.0	13	
	e S	T	12:41:34.6					
BSEG	e P	Z	12:30:34.5	93.3	92.5	1.0	18	
	e S	T	12:41:39.5					
UBBA	e P	Z	12:30:35.1	93.4	92.5	1.7	28	
	e pP	Z	12:30:50.7					
	e S	T	12:41:36.8					
NRDL	e P	Z	12:30:35.1	93.4	92.4	1.0	15	
	e S	T	12:41:37.3					
STU	e P	Z	12:30:37.2	93.8	92.0	1.1	18	
	e S	T	12:41:41.7					
TNS	e P	Z	12:30:39.8	94.3	91.3	0.9	45	
	e S	T	12:41:50.1					
BFO	e P	Z	12:30:39.5	94.4	91.4	1.0	10	
	e S	T	12:41:45.7					

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HLG	e P	Z	12:30:41.7	94.8	90.5	1.3	254
IBBN	e P	Z	12:30:41.3	94.8	90.6	0.9	16
BUG	e P	Z	12:30:42.7	95.1	90.3	0.8	7
WLF	e P	Z	12:30:46.5	95.8	89.6	0.9	8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	18:10:30.8	17.342S	170.124W	33.0N				SZGRF
Tonga Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 18:30:04.4	145.0	356.5					
CLZ	e PKPbc	Z 18:30:05.5	145.5	0.8					
CLL	e PKPbc	Z 18:30:06.0	145.9	5.3					
NEUB	e PKPbc	Z 18:30:10.9	146.1	3.3					
BRG	e PKPbc	Z 18:30:07.6	146.3	7.0					
GUNZ	e PKPbc	Z 18:30:12.1	146.9	4.3					
WERN	e PKPbc	Z 18:30:10.9	147.0	4.4					
ROTZ	e PKPbc	Z 18:30:11.1	147.5	4.1					
GEC2	e PKPbc	Z 18:30:13.3	148.3	7.0					
BFO	e PKPbc	Z 18:30:15.4	149.0	357.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/18	19:52:30.7	46.390N	152.710E	33.0N	4.7			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 20:04:17.9	76.3	27.3	0.5	8	5.1		
CLZ	e P	Z 20:04:21.0	76.6	25.7	0.7	4	4.7		
MOX	e P	Z 20:04:24.0	77.3	26.4	1.3	7	4.5		
ROTZ	e P	Z 20:04:27.9	77.9	26.7	1.2	4	4.4		
GRA1	e P	Z 20:04:29.7	78.3	26.0	0.9	12	4.8		
WET	e P	Z 20:04:29.8	78.3	27.0	0.9	3	4.3		
TNS	e P	Z 20:04:31.6	78.6	24.3	0.9	9	4.7		
RJOB	e P	Z 20:04:37.0	79.6	26.8	1.0	6	4.5		
WLF	e P	Z 20:04:36.9	79.7	22.7	1.4	16	4.9		
BFO	e P	Z 20:04:40.5	80.3	24.0	1.0	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/19	01:53:39.9	44.064N	7.567E	10.0G			3.1	SZGRF
Northern Italy								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 01:54:35.1	3.6	207.5					3.1

	e Sn	E	01:55:15.5						
WTTA	e Pn	Z	01:54:45.2	4.3	223.1				3.0
MOA	e Pn	Z	01:55:08.3	6.0	233.3				
WET	e Pn	Z	01:55:09.7	6.3	217.7				
GEC2	e Pn	Z	01:55:11.6	6.4	223.7				
	e Sn	N	01:56:20.3						
ARSA	e Pn	Z	01:55:13.8	6.4	243.1				

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/19 03:16: 9.1 48.373S 32.410E 33.0G 5.8  
 Prince Edward Islands, South Africa, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e PP	Z 03:33:42.0	97.6	167.0					
FUR	e PP	Z 03:33:46.3	98.3	166.0					
GEC2	e PP	Z 03:33:48.6	98.6	167.6					
BFO	e PP	Z 03:33:51.0	98.9	164.1					
WET	e PP	Z 03:33:52.2	99.0	167.0					
STU	e PP	Z 03:33:53.3	99.2	164.6					
ROTZ	e PP	Z 03:33:57.9	99.7	166.5					
GRA1	e Pdiff	Z 03:29:57.9	99.7	165.9					
	e PP	Z 03:33:57.6							
	e SKSac	R 03:40:34.8							
	e SP	R 03:42:58.2							
	e L	Z 04:15:07.7			21.7	3087		5.8	
TANN	e PP	Z 03:34:01.9	100.3	166.7					
BRG	e PP	Z 03:34:04.0	100.5	167.6					
MOX	e PP	Z 03:34:04.3	100.6	166.1					
WLF	e PP	Z 03:34:05.0	100.6	162.6					
TNS	e PP	Z 03:34:05.8	100.7	164.1					
UBBA	e PP	Z 03:34:07.7	101.0	165.0					
CLL	e PP	Z 03:34:07.9	101.1	167.0					
CLZ	e PP	Z 03:34:15.1	102.0	165.2					
BUG	e PP	Z 03:34:16.3	102.1	163.2					
NRDL	e PP	Z 03:34:19.7	102.6	165.0					
IBBN	e PP	Z 03:34:22.0	102.8	163.5					
BSEG	e PP	Z 03:34:29.6	104.0	165.1					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/19 04:09: 1.0 32.264N 105.413E 33.0N 4.9  
 Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:19:46.7	66.4	67.3	0.9	5	4.7		
GEC2	e P	Z 04:19:52.8	67.3	66.3	1.3	6	4.7		

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TANN	e P	Z	04:19:53.6	67.4	66.1	0.9	3	4.5
WET	e P	Z	04:19:55.6	67.7	65.9	1.2	5	4.6
ROTZ	e P	Z	04:19:56.4	67.9	65.7	1.2	8	4.8
NRDL	e P	Z	04:19:58.1	67.9	65.3	1.1	8	4.8
CLZ	e P	Z	04:19:57.8	68.0	65.3	1.5	15	5.0
GRA1	e P	Z	04:20:00.3	68.5	65.0	1.3	32	5.4
	e pP	Z	04:20:05.3					
FUR	e P	Z	04:20:04.1	69.1	64.5	0.6	16	5.4
IBBN	e P	Z	04:20:06.6	69.3	63.6	0.6	10	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/19	06:06:54.4	31.910N	105.680E	33.0N	5.2	5.2		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	06:17:44.4	66.8	67.4	1.1	15	5.1		
CLL	e P	Z	06:17:46.7	67.2	66.9	1.0	11	5.0		
BSEG	e P	Z	06:17:50.4	67.6	66.1	0.9	20	5.4		
GEC2	e P	Z	06:17:49.8	67.7	66.4	0.9	9	5.0		
TANN	e P	Z	06:17:50.9	67.9	66.2	1.1	8	4.8		
WET	e P	Z	06:17:53.5	68.1	66.0	1.0	12	5.1		
MOX	e P	Z	06:17:53.6	68.2	65.7	1.3	15	5.1		
ROTZ	e P	Z	06:17:53.6	68.3	65.8	1.2	17	5.2		
NRDL	e P	Z	06:17:54.5	68.3	65.4	1.4	24	5.3		
CLZ	e P	Z	06:17:54.3	68.5	65.3	1.2	26	5.3		
GRA1	e P	Z	06:17:58.2	68.9	65.1	0.8	23	5.5		
	e L	Z	06:49:15.5			19.9	1411		5.2	
UBBA	e P	Z	06:17:58.3	69.1	64.7	0.8	6	4.9		
FUR	e P	Z	06:18:02.2	69.5	64.6	1.4	50	5.5		
BFO	e P	Z	06:18:11.4	71.2	62.8	1.4	22	5.1		
WLF	e P	Z	06:18:15.5	71.8	61.8	0.9	23	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/19	10:08:38.7	42.889N	132.675E	520.1	5.8			SZGRF

Primorye, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:19:05.7	71.4	40.8	0.9	181	6.1		
	e S	T	10:27:42.7							
BRG	e P	Z	10:19:10.1	72.2	42.4	0.8	59	5.7		
	e pP	Z	10:20:59.9							
	e S	T	10:27:49.6							
CLL	e P	Z	10:19:10.3	72.3	41.9	0.9	128	6.0		
	e S	T	10:27:50.4							
NRDL	e P	Z	10:19:12.3	72.6	40.3	0.9	48	5.5		

	e pP	Z	10:21:02.3								
	e S	T	10:27:54.1								
CLZ	e P	Z	10:19:15.0	72.9	40.4	1.1	120	5.8			
	e S	T	10:27:59.6								
TANN	e P	Z	10:19:15.9	73.2	41.4	1.0	46	5.6			
	e S	T	10:28:00.9								
MOX	e P	Z	10:19:16.9	73.3	40.9	1.0	59	5.7			
	e pP	Z	10:21:07.1								
	e S	T	10:28:02.6								
IBBN	e P	Z	10:19:18.3	73.6	38.8	1.0	97	5.9			
	e S	T	10:28:06.3								
ROTZ	e P	Z	10:19:19.7	73.8	41.1	0.9	85	5.9			
	e S	T	10:28:09.7								
GEC2	e P	Z	10:19:19.3	73.8	41.9	1.0	56	5.6			
	e pP	Z	10:21:09.7								
	e S	T	10:28:09.1								
UBBA	e P	Z	10:19:19.9	73.9	39.9	0.9	25	5.4			
	e S	T	10:28:08.7								
WET	e P	Z	10:19:20.5	73.9	41.4	0.9	73	5.8			
	e pP	Z	10:21:11.1								
	e S	T	10:28:11.0								
GRA1	e P	Z	10:19:22.4	74.2	40.5	0.8	207	6.3			
	e PP	Z	10:22:15.4								
	e S	T	10:28:14.7								
BUG	e P	Z	10:19:23.2	74.5	38.3	1.0	86	5.8			
	e S	T	10:28:16.6								
TNS	e P	Z	10:19:26.1	75.0	38.8	1.0	96	5.9			
	e S	T	10:28:20.6								
FUR	e P	Z	10:19:28.5	75.4	40.3	0.9	148	6.1			
	e S	T	10:28:26.1								
STU	e P	Z	10:19:30.5	75.8	39.1	0.9	91	5.9			
	e pP	Z	10:21:22.1								
	e S	T	10:28:30.0								
WLF	e P	Z	10:19:33.6	76.3	37.3	0.9	30	5.3			
	e S	T	10:28:37.0								
BFO	e P	Z	10:19:34.4	76.5	38.5	0.9	119	5.9			
	e pP	Z	10:21:26.1								
	e S	T	10:28:37.4								

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/19 14:26:50.1 1.086N 98.203E 33.0G 5.8 5.8 ML SZGRF  
 Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:39:24.8	85.5	93.8	1.7	126	5.8		
	e S	T	14:49:29.1							
GEC2	e P	Z	14:39:25.1	85.6	93.4	1.4	122	5.8		

	e S	T	14:49:29.8						
RUE	e P	Z	14:39:25.6	85.7	93.8	1.1	176	6.1	
RJOB	e P	Z	14:39:27.1	86.1	92.7	1.1	28	5.3	
WET	e P	Z	14:39:27.7	86.1	92.8	1.8	120	5.7	
	e S	T	14:49:36.2						
RGN	e P	Z	14:39:27.7	86.1	93.5	1.4	216	6.1	
CLL	e P	Z	14:39:27.4	86.2	93.1	2.0	132	5.7	
	e S	T	14:49:34.0						
TANN	e P	Z	14:39:29.4	86.5	92.6	1.7	76	5.5	
	e S	T	14:49:39.4						
WERN	e P	Z	14:39:29.8	86.5	92.5	1.2	29	5.3	
GUNZ	e P	Z	14:39:29.8	86.5	92.5	1.8	94	5.6	
WERD	e P	Z	14:39:29.7	86.6	92.5	1.9	100	5.6	
ROTZ	e P	Z	14:39:30.5	86.6	92.4	1.3	52	5.5	
	e S	T	14:49:42.0						
MOX	e P	Z	14:39:32.0	87.0	92.0	1.5	81	5.6	
	e S	T	14:49:43.9						
FUR	e P	Z	14:39:32.3	87.1	91.6	1.2	56	5.5	
	e S	T	14:49:44.0						
GRA1	e P	Z	14:39:33.5	87.2	91.6	1.3	94	5.8	
	e S	T	14:49:47.3						
	e L	Z	15:26:18.3			18.1	3645		5.8
CLZ	e P	Z	14:39:35.9	87.8	91.0	1.8	263	6.3	
	e S	T	14:49:49.7						
BSEG	e P	Z	14:39:36.1	87.9	91.1	1.4	165	6.2	
	e S	T	14:49:51.0						
NRDL	e P	Z	14:39:36.8	88.0	90.8	1.6	263	6.3	
	e S	T	14:49:51.3						
UBBA	e P	Z	14:39:36.9	88.0	90.7	1.7	98	5.9	
	e S	T	14:49:53.0						
STU	e P	Z	14:39:39.4	88.5	90.0	1.4	68	5.7	
	e S	T	14:49:58.8						
TNS	e P	Z	14:39:41.9	89.0	89.5	1.2	197	6.2	
	e S	T	14:50:03.6						
BFO	e P	Z	14:39:41.8	89.1	89.4				
	e S	T	14:50:04.2						
IBBN	e P	Z	14:39:43.6	89.4	89.0	1.6	266	6.2	
	e S	T	14:50:05.2						
BUG	e P	Z	14:39:45.0	89.7	88.6	1.4	140	6.0	
	e S	T	14:50:09.3						
WLF	e P	Z	14:39:49.2	90.5	87.7	1.7	195	6.2	
	e S	T	14:50:17.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/19	14:49:25.8	1.880N	97.990E	33.0N	5.3			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:01:57.0	84.8	93.4	1.2	13	5.0		
GEC2	e P	Z	15:01:57.2	84.8	93.1	1.2	19	5.2		
WET	e P	Z	15:01:59.9	85.4	92.5	1.0	11	5.1		
ROTZ	e P	Z	15:02:02.7	85.8	92.0	1.1	12	4.9		
MOX	e P	Z	15:02:04.5	86.2	91.6	1.8	23	5.0		
GRA1	e P	Z	15:02:05.6	86.5	91.2	1.0	17	5.1		
CLZ	e P	Z	15:02:08.1	87.0	90.7	1.0	33	5.4		
BSEG	e P	Z	15:02:08.4	87.1	90.8	1.0	31	5.4		
NRDL	e P	Z	15:02:09.0	87.2	90.5	1.0	40	5.5		
TNS	e P	Z	15:02:14.1	88.3	89.1	1.0	51	5.8		
BFO	e P	Z	15:02:13.9	88.4	89.0	1.0	11	5.1		
IBBN	e P	Z	15:02:15.9	88.7	88.7	0.8	28	5.6		
BUG	e P	Z	15:02:18.0	89.0	88.3	1.1	33	5.5		
WLF	e P	Z	15:02:21.5	89.8	87.4	1.2	28	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/19 15:19:20.5 5.700S 147.200E 121.0  
 Eastern New Guinea, Papua New Guinea, region NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	15:37:58.1	120.5	57.2					
BSEG	e PKPdf	Z	15:37:57.9	120.5	52.1					
CLL	e PKPdf	Z	15:37:58.3	120.7	56.1					
NRDL	e PKPdf	Z	15:38:00.1	121.5	52.6					
TANN	e PKPdf	Z	15:38:00.0	121.5	56.0					
GEC2	e PKPdf	Z	15:38:00.3	121.7	58.0					
CLZ	e PKPdf	Z	15:38:00.8	121.8	53.2					
MOX	e PKPdf	Z	15:38:00.4	121.8	55.1					
WET	e PKPdf	Z	15:38:01.1	122.0	57.1					
GRA1	e PKPdf	Z	15:38:02.1	122.6	55.2					
WLF	e PKPdf	Z	15:38:07.8	125.2	50.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/19 17:52:39.1 31.940N 104.190E 14.3 5.3 4.3  
 Sichuan, China SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:03:22.5	65.9	68.4	1.7	31	5.3		
CLL	e P	Z	18:03:24.7	66.3	67.9	1.7	29	5.2		
BSEG	e P	Z	18:03:28.8	66.8	67.1	1.2	34	5.5		
GEC2	e P	Z	18:03:28.8	66.8	67.4	1.2	13	5.0		
TANN	e P	Z	18:03:29.4	67.0	67.2	1.2	13	5.0		
WET	e P	Z	18:03:31.3	67.2	67.0	1.7	21	5.1		
ROTZ	e P	Z	18:03:32.4	67.4	66.8	1.5	35	5.4		



MOX	e P	Z	18:03:32.0	67.4	66.7	1.6	22	5.1		
NRDL	e P	Z	18:03:32.9	67.5	66.4	1.7	61	5.5		
CLZ	e P	Z	18:03:33.7	67.6	66.3	1.5	43	5.4		
GRA1	e P	Z	18:03:36.2	68.0	66.1	1.7	79	5.7		
	e pP	Z	18:03:40.2							
	e PP	Z	18:06:03.7							
	e L	Z	18:33:33.7			19.7	198		4.3	
FUR	e P	Z	18:03:40.3	68.6	65.6	1.2	56	5.7		
IBBN	e P	Z	18:03:41.5	68.9	64.7	1.6	43	5.4		
TNS	e P	Z	18:03:44.4	69.4	64.4	1.6	37	5.3		
BUG	e P	Z	18:03:46.3	69.5	64.1	1.6	40	5.3		
STU	e P	Z	18:03:45.5	69.6	64.4	1.0	16	5.1		
BFO	e P	Z	18:03:49.7	70.3	63.7	1.5	24	5.1		
WLF	e P	Z	18:03:54.6	70.9	62.7	1.4	56	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/19	18:42:0.6	48.500N	152.500E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 18:53:35.7	74.4	26.5	0.9	8	4.8		
BRG	e P	Z 18:53:37.4	74.5	27.1	0.2	7	5.3		
CLZ	e P	Z 18:53:37.9	74.6	25.0	1.9	28	5.0		
MOX	e P	Z 18:53:42.2	75.3	25.6	0.9	4	4.5		
ROTZ	e P	Z 18:53:45.4	76.0	25.9	1.0	7	4.8		
GRA1	e P	Z 18:53:47.5	76.3	25.3	0.9	18	5.2		
WET	e P	Z 18:53:47.8	76.3	26.2	0.9	8	4.8		
TNS	e P	Z 18:53:48.9	76.6	23.6	1.4	20	5.1		
BFO	e P	Z 18:53:58.7	78.3	23.3	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/19	19:33:14.4	39.851N	144.959E	33.0N	4.8			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:45:29.6	81.6	34.1	1.4	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/20	00:57:40.9	31.770N	103.940E	33.0N	5.0			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:08:24.4	65.9	68.7	0.8	6	4.9		

CLL	e P	Z	01:08:26.6	66.3	68.2	1.2	7	4.8
GEC2	e P	Z	01:08:30.5	66.8	67.7	1.1	6	4.7
BSEG	e P	Z	01:08:30.6	66.8	67.4	0.8	11	5.1
TANN	e P	Z	01:08:31.1	66.9	67.5	0.9	6	4.8
WET	e P	Z	01:08:33.3	67.2	67.3	1.5	7	4.7
ROTZ	e P	Z	01:08:34.2	67.3	67.1	0.9	9	5.0
MOX	e P	Z	01:08:33.5	67.3	67.0	1.2	7	4.8
NRDL	e P	Z	01:08:35.0	67.5	66.7	0.9	7	4.9
CLZ	e P	Z	01:08:35.7	67.6	66.6	0.9	12	5.2
GRA1	e P	Z	01:08:37.8	67.9	66.4	0.8	14	5.3
FUR	e P	Z	01:08:41.9	68.5	65.9	0.9	26	5.5
IBBN	e P	Z	01:08:43.5	68.9	65.0	0.8	10	5.1
STU	e P	Z	01:08:47.5	69.5	64.7	0.9	10	5.0
BFO	e P	Z	01:08:51.5	70.2	64.0	1.0	7	4.8
WLF	e P	Z	01:08:56.4	70.9	63.0	0.9	15	5.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/20 08:14:39.2 36.510N 80.870E 33.0N 4.6  
 Southern Xinjiang, China SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 08:23:21.9	48.7	79.9	0.9	9	4.8		
CLL	e P	Z 08:23:24.9	49.2	79.7	1.0	8	4.7		
GEC2	e P	Z 08:23:26.1	49.2	78.1	1.1	10	4.7		
WET	e P	Z 08:23:30.0	49.7	77.8	1.0	5	4.4		
TANN	e P	Z 08:23:28.9	49.7	78.6	0.9	4	4.3		
ROTZ	e P	Z 08:23:32.1	50.0	77.9	1.2	9	4.6		
MOX	e P	Z 08:23:33.1	50.2	78.2	0.8	4	4.4		
BSEG	e P	Z 08:23:34.9	50.3	80.0	1.0	20	5.0		
GRA1	e P	Z 08:23:36.5	50.6	77.2	1.1	15	4.8		
CLZ	e P	Z 08:23:37.1	50.7	78.3	1.2	16	4.8		
NRDL	e P	Z 08:23:37.6	50.7	78.7	0.9	12	4.8		
UBBA	e P	Z 08:23:39.6	51.1	77.3	0.7	3	4.4		
BUG	e P	Z 08:23:51.6	52.6	75.9	0.5	9	4.9		
BFO	e P	Z 08:23:53.0	52.8	74.3	1.2	7	4.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/20 13:53:39.3 51.490N 176.110E 33.0N 5.6 6.0  
 Rat Islands, Aleutian Islands, United States SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 14:05:13.7	73.9	9.2	1.0	70	5.6		
	e S	T 14:14:47.4							
NRDL	e P	Z 14:05:21.5	75.4	9.0	1.1	41	5.5		
	e S	T 14:15:01.1							

IBBN	e P	Z	14:05:24.5	75.7	7.5	1.2	154	6.0
	e S	T	14:15:05.2					
CLZ	e P	Z	14:05:25.6	76.0	9.1	1.1	70	5.7
	e S	T	14:15:09.8					
CLL	e P	Z	14:05:26.5	76.2	10.7	1.3	50	5.5
	e S	T	14:15:09.7					
BRG	e P	Z	14:05:28.6	76.5	11.3	1.4	52	5.5
	e S	T	14:15:14.8					
BUG	e P	Z	14:05:28.5	76.6	7.1	1.1	50	5.5
	e S	T	14:15:16.4					
UBBA	e P	Z	14:05:31.1	77.0	8.8	1.5	83	5.6
	e S	T	14:15:20.5					
MOX	e P	Z	14:05:31.1	77.0	9.8	1.3	48	5.5
	e S	T	14:15:20.1					
TANN	e P	Z	14:05:32.1	77.2	10.4	2.0	125	5.7
	e S	T	14:15:21.5					
TNS	e P	Z	14:05:35.1	77.7	7.8	1.4	107	5.8
	e S	T	14:15:26.3					
ROTZ	e P	Z	14:05:36.1	77.8	10.2	1.2	45	5.5
	e S	T	14:15:29.2					
GRA1	e P	Z	14:05:37.1	78.0	9.6	1.2	106	5.9
	e PP	Z	14:08:38.5					
	e S	T	14:15:31.1					
	e L	Z	14:42:19.2			21.0	7895	6.0
WET	e P	Z	14:05:39.0	78.4	10.6	1.6	87	5.5
WLF	e P	Z	14:05:39.4	78.5	6.4	1.2	43	5.3
	e S	T	14:15:37.4					
GEC2	e P	Z	14:05:39.8	78.5	11.1	1.5	93	5.6
	e S	T	14:15:35.0					
STU	e P	Z	14:05:43.0	79.1	8.3	0.9	37	5.4
FUR	e P	Z	14:05:45.7	79.5	9.5	1.1	83	5.6
BFO	e P	Z	14:05:45.2	79.6	7.7	1.4	56	5.3
	e S	T	14:15:46.3					
RJOB	e P	Z	14:05:46.8	79.7	10.5	1.0	27	5.1
	e S	T	14:15:50.2					

Date 2008/05/20  
 Origin Time 16:04:31.8  
 Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:08:24.5	16.7	146.0	0.7	19	4.3		
WET	e P	Z 16:08:30.2	17.2	144.5	0.8	20	4.3		
ROTZ	e P	Z 16:08:38.3	18.0	144.0	0.9	6	3.7		
GRA1	e P	Z 16:08:42.4	18.3	141.6	0.8	17	4.2		
TANN	e P	Z 16:08:43.2	18.4	145.7	1.0	11	3.9		
BFO	e P	Z 16:08:47.7	18.6	132.4	1.1	7	3.8		

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MOX	e P	Z	16:08:48.7	18.9	144.2	0.8	8	4.0
TNS	e P	Z	16:09:01.7	19.9	136.6	0.9	14	4.2
CLZ	e P	Z	16:09:04.2	20.3	143.4	0.8	12	4.1
NRDL	e P	Z	16:09:10.6	20.9	143.9	0.8	10	4.2
BSEG	e P	Z	16:09:21.1	22.1	146.4	1.0	27	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/20	17:08:32.9	48.694N	158.694E	33.0N	4.8			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 17:20:13.7	75.3	20.8	1.2	7	4.7		
CLL	e P	Z 17:20:14.9	75.8	22.6	0.9	7	4.8		
CLZ	e P	Z 17:20:16.8	75.9	20.9	1.0	10	4.9		
MOX	e P	Z 17:20:20.9	76.7	21.6	1.0	6	4.6		
WERN	e P	Z 17:20:22.1	76.9	22.1	0.9	10	4.9		
ROTZ	e P	Z 17:20:25.7	77.4	21.9	0.9	7	4.8		
GRA1	e P	Z 17:20:26.8	77.7	21.3	0.8	14	5.1		
WET	e P	Z 17:20:27.4	77.8	22.3	0.9	5	4.7		
TNS	e P	Z 17:20:27.7	77.8	19.6	0.7	12	5.1		
GEC2	e P	Z 17:20:27.0	77.9	22.8	0.7	4	4.6		
WLF	e P	Z 17:20:32.2	78.8	18.1	0.9	7	4.7		
RJOB	e P	Z 17:20:34.7	79.1	22.1	0.8	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/20	17:08: 1.3	2.695S	102.067E	49.4	5.6	4.9		SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:20:59.7	90.9	93.2	1.0	47	5.8		
	e pP	Z 17:21:14.3							
	e S	T 17:31:56.0							
GEC2	e P	Z 17:20:59.8	91.0	93.0	1.1	55	5.8		
	e S	T 17:31:55.4							
RUE	e P	Z 17:21:00.6	91.1	93.0	1.1	104	6.1		
RGN	e P	Z 17:21:00.4	91.5	92.6	1.3	39	5.6		
RJOB	e P	Z 17:21:01.3	91.5	92.4	1.1	30	5.5		
	e S	T 17:32:01.8							
WET	e P	Z 17:21:02.3	91.5	92.4	1.0	49	5.8		
	e S	T 17:32:01.5							
CLL	e P	Z 17:21:02.1	91.5	92.4	1.1	28	5.5		
	e S	T 17:32:00.1							
TANN	e P	Z 17:21:03.6	91.8	92.0	1.2	21	5.4		
	e pP	Z 17:21:18.2							
	e S	T 17:32:04.9							

ROTZ	e P	Z	17:21:04.7	92.0	91.8	1.1	33	5.6	
	e pP	Z	17:21:19.4						
	e S	T	17:32:05.7						
MOX	e P	Z	17:21:06.0	92.4	91.4	1.1	23	5.4	
	e pP	Z	17:21:20.5						
	e S	T	17:32:08.8						
FUR	e P	Z	17:21:06.1	92.5	91.2	1.1	47	5.8	
	e S	T	17:32:09.7						
GRA1	e P	Z	17:21:07.5	92.6	91.1	1.2	58	5.9	
	e pP	Z	17:21:21.5						
	e S	T	17:32:11.2						
	e L	Z	18:13:45.1			20.9	400		4.9
CLZ	e P	Z	17:21:09.9	93.2	90.3	1.1	26	5.6	
	e pP	Z	17:21:24.3						
	e S	T	17:32:15.1						
BSEG	e P	Z	17:21:10.3	93.2	90.2	1.0	28	5.6	
	e S	T	17:32:15.7						
NRDL	e P	Z	17:21:10.7	93.3	90.1	1.1	27	5.6	
	e S	T	17:32:15.4						
UBBA	e P	Z	17:21:10.6	93.4	90.1	1.6	27	5.4	
	e S	T	17:32:16.6						
STU	e P	Z	17:21:13.1	93.9	89.6	1.0	26	5.5	
	e S	T	17:32:22.9						
TNS	e P	Z	17:21:15.6	94.4	88.9	0.9	66	6.0	
	e S	T	17:32:28.7						
BFO	e P	Z	17:21:15.2	94.5	89.0	1.0	13	5.2	
	e S	T	17:32:25.8						
IBBN	e S	T	17:32:29.0	94.8	88.2				
BUG	e S	T	17:32:31.7	95.1	87.9				
WLF	e P	Z	17:21:22.4	95.9	87.2	1.1	17	5.5	
	e S	T	17:32:38.0						

Date 2008/05/20 Origin Time 20:43: 3.3 Lat 55.700N Long 106.810E Depth 33.0N mb 5.2 Ms 5.0 ML Source SZGRF  
 Lake Baykal, Russia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 20:52:03.1	50.9	46.2	1.4	46	5.2		
BRG	e P	Z 20:52:07.3	51.5	46.0	1.7	61	5.2		
CLL	e P	Z 20:52:08.1	51.6	45.9	1.3	24	5.0		
NRDL	e P	Z 20:52:12.2	52.0	45.2	1.3	36	5.1		
CLZ	e P	Z 20:52:14.8	52.4	45.0	1.8	65	5.3		
MOX	e P	Z 20:52:16.6	52.7	44.9	1.5	57	5.3		
GEC2	e P	Z 20:52:18.3	53.0	44.8	1.4	28	5.0		
ROTZ	e P	Z 20:52:19.4	53.0	44.7	1.7	54	5.2		
WET	e P	Z 20:52:20.2	53.2	44.6	1.5	43	5.1		
IBBN	e P	Z 20:52:20.1	53.2	44.1	1.1	30	5.2		

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UBBA	e P	Z	20:52:20.9	53.3	44.3	1.9	46	5.2		
GRA1	e P	Z	20:52:23.1	53.5	44.2	1.3	71	5.6		
	e L	Z	21:17:51.4			20.0	1283		5.0	
BUG	e P	Z	20:52:26.2	54.0	43.4	1.2	33	5.2		
RJOB	e P	Z	20:52:28.0	54.2	43.9	2.1	75	5.3		
TNS	e P	Z	20:52:29.1	54.4	43.3	1.3	36	5.2		
FUR	e P	Z	20:52:30.6	54.6	43.5	1.9	117	5.6		
STU	e P	Z	20:52:34.0	55.1	42.9	1.3	42	5.3		
BFO	e P	Z	20:52:39.2	55.8	42.4	1.3	30	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/20	21:37:11.7	6.940S	72.380W	33.0N	5.4			SZGRF
Peru-Brazil border region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	21:50:00.5	88.0	256.8	1.0	70	5.9		
BUG	e P	Z	21:50:05.2	89.0	257.6	1.3	71	5.7		
BFO	e P	Z	21:50:04.5	89.1	258.5	1.5	18	5.1		
TNS	e P	Z	21:50:07.4	89.5	258.5	1.4	52	5.6		
IBBN	e P	Z	21:50:07.6	89.5	258.0	0.8	23	5.4		
STU	e P	Z	21:50:08.8	89.7	259.1	1.6	53	5.5		
UBBA	e P	Z	21:50:12.2	90.6	259.7	1.6	24	5.3		
NRDL	e P	Z	21:50:14.2	91.0	259.8	1.1	14	5.2		
CLZ	e P	Z	21:50:14.5	91.0	260.0	0.9	15	5.3		
GRA1	e P	Z	21:50:14.9	91.2	260.6	1.3	33	5.5		
BSEG	e P	Z	21:50:15.5	91.3	260.0	1.0	22	5.4		
MOX	e P	Z	21:50:17.1	91.6	261.0	2.2	53	5.5		
ROTZ	e P	Z	21:50:18.4	91.8	261.4	1.3	18	5.3		
RJOB	e P	Z	21:50:18.4	91.9	261.8	1.0	13	5.2		
TANN	e P	Z	21:50:19.8	92.1	261.6	1.1	20	5.4		
WET	e P	Z	21:50:19.7	92.2	261.9	1.6	18	5.2		
CLL	e P	Z	21:50:21.5	92.5	262.1	0.9	11	5.2		
GEC2	e P	Z	21:50:21.8	92.7	262.5	1.1	8	5.0		
BRG	e P	Z	21:50:23.9	93.1	262.8	1.1	18	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/21	01:30:24.7	9.900S	150.900E	35.0				NEIC
Eastern New Guinea, Papua New Guinea, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	01:49:27.5	128.1	54.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/05/21

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 13:54:37.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/21								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:09:02.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/21								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:30:47.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/21								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:59:34.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/21	22:22:59.3	4.430S	100.610E	33.0N	5.3			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:36:01.6	91.3	95.2	1.1	22	5.4		
	e S	T 22:46:57.1							
BRG	e P	Z 22:36:01.9	91.3	95.4	1.1	17	5.3		
	e S	T 22:46:59.7							
RUE	e P	Z 22:36:03.1	91.6	95.2	1.0	33	5.6		
WET	e P	Z 22:36:04.1	91.9	94.6	1.1	18	5.3		
CLL	e P	Z 22:36:04.1	92.0	94.6					
GUNZ	e P	Z 22:36:06.7	92.3	94.2					
MOX	e P	Z 22:36:08.5	92.8	93.6	1.2	11	5.1		
GRA1	e P	Z 22:36:10.1	93.0	93.3	1.2	25	5.5		
CLZ	e P	Z 22:36:12.3	93.6	92.6	1.3	17	5.2		
BSEG	e P	Z 22:36:12.6	93.8	92.4	1.4	20	5.2		
NRDL	e P	Z 22:36:13.5	93.8	92.3	1.1	12	5.1		

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TNS	e P	Z	22:36:18.3	94.8	91.2	1.0	22	5.5
BUG	e P	Z	22:36:21.0	95.5	90.2	0.8	6	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	04:00:44.2	26.523N	127.397E	33.0N	4.5			SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:13:17.2	85.1	53.7	1.2	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	07:19: 8.9	33.328N	101.660E	33.0N	4.6	4.8		SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:29:49.2	65.5	66.7	1.5	6	4.6		
	e L	Z 08:01:23.2			19.0	561		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	12:45: 3.2	21.414N	27.694W	33.0N	4.1			SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:52:48.9	41.7	241.6	1.0	4	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	15:41:25.0	32.780S	13.060W	33.0N	4.8			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:53:58.7	85.2	200.3	1.5	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:11:08.8			1.1	4			



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	17:37:46.5	32.952N	104.708E	33.0N	4.8			SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:48:40.0	67.6	65.0	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	17:39:60.0	43.532N	146.836E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:52:01.3	79.0	31.1	2.6	32	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/22	18:58:15.4	4.713N	98.393E	33.0N	4.8			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:10:45.7	84.6	89.1	1.3	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/23	00:05: 8.5	30.460N	103.650E	33.0N	4.7	4.5		SZGRF

Sichuan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 00:16:00.2	67.1	69.4	1.0	4	4.6		
GEC2	e P	Z 00:16:02.5	67.5	68.9	1.0	3	4.5		
BSEG	e P	Z 00:16:04.0	67.6	68.5	1.7	22	5.1		
TANN	e P	Z 00:16:04.7	67.7	68.7	1.4	5	4.6		
WET	e P	Z 00:16:05.4	67.9	68.4	1.6	9	4.7		
ROTZ	e P	Z 00:16:06.8	68.1	68.2	1.0	4	4.6		
NRDL	e P	Z 00:16:07.5	68.3	67.8	1.4	11	4.9		
CLZ	e P	Z 00:16:08.6	68.4	67.8	0.9	6	4.8		
RJOB	e P	Z 00:16:09.5	68.5	67.9	1.5	7	4.7		
GRA1	e P	Z 00:16:10.2	68.7	67.6	1.4	15	5.0		
	e L	Z 00:47:43.1			19.0	282		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/23	01:07:44.6	20.780S	178.660W	649.7				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:26:13.6	146.1	15.2					
NRDL	e PKPbc	Z	01:26:17.2	147.6	15.4					
IBBN	e PKPbc	Z	01:26:18.7	148.1	11.4					
CLL	e PKPbc	Z	01:26:18.8	148.1	21.0					
CLZ	e PKPbc	Z	01:26:19.0	148.2	16.2					
	e pPKPbc	Z	01:28:44.1							
BRG	e PKPbc	Z	01:26:19.4	148.3	22.9					
BUG	e PKPbc	Z	01:26:20.8	149.0	10.8					
MOX	e PKPbc	Z	01:26:21.1	149.1	18.9					
TANN	e PKPbc	Z	01:26:21.3	149.1	20.6					
UBBA	e PKPbc	Z	01:26:21.1	149.2	16.0					
ROTZ	e PKPbc	Z	01:26:23.0	149.8	20.5					
	e PKPab	Z	01:26:31.0							
TNS	e PKPbc	Z	01:26:23.6	150.0	13.4					
	e PKPab	Z	01:26:32.0							
GRA1	e PKPbc	Z	01:26:23.6	150.0	18.7					
	e PKPab	Z	01:26:33.0							
	e pPKPbc	Z	01:28:49.6							
WET	e PKPbc	Z	01:26:23.6	150.2	22.1					
	e PKPab	Z	01:26:33.2							
GEC2	e PKPbc	Z	01:26:23.8	150.2	23.8					
	e PKPab	Z	01:26:33.2							
WLF	e PKPbc	Z	01:26:25.9	150.9	9.3					
	e PKPab	Z	01:26:36.1							
STU	e PKPbc	Z	01:26:26.4	151.3	15.4					
	e PKPab	Z	01:26:36.9							
FUR	e PKPbc	Z	01:26:26.6	151.5	19.7					
	e PKPab	Z	01:26:38.3							
RJOB	e PKPbc	Z	01:26:26.3	151.5	22.9					
	e PKPab	Z	01:26:38.0							
BFO	e PKPbc	Z	01:26:27.2	151.9	14.0					
	e PKPab	Z	01:26:39.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/23	03:33: 8.8	51.900N	176.540E	54.3	5.1	4.5		SZGRF
Rat Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	03:44:41.4	73.5	8.8	0.9	49	5.5		
	e pP	Z	03:44:56.8							
NRDL	e P	Z	03:44:48.9	75.0	8.6	0.9	17	5.1		
IBBN	e P	Z	03:44:51.8	75.4	7.1	1.0	64	5.7		
	e pP	Z	03:45:07.3							
CLZ	e P	Z	03:44:53.3	75.6	8.8	0.9	34	5.5		

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CLL	e P	Z	03:44:53.7	75.9	10.4	1.3	13	4.9	
BRG	e P	Z	03:44:55.8	76.2	11.0	0.8	10	5.0	
BUG	e P	Z	03:44:56.4	76.3	6.8	1.0	20	5.2	
UBBA	e P	Z	03:44:58.6	76.7	8.5	1.5	20	5.0	
MOX	e P	Z	03:44:58.8	76.7	9.5	0.9	15	5.1	
TANN	e P	Z	03:44:59.6	76.8	10.0	1.6	18	4.9	
TNS	e P	Z	03:45:02.9	77.4	7.5	0.9	24	5.3	
	e pP	Z	03:45:17.9						
ROTZ	e P	Z	03:45:03.6	77.5	9.8	1.2	15	5.0	
GRA1	e P	Z	03:45:04.8	77.6	9.2	0.8	25	5.4	
	e S	T	03:54:53.9						
	e L	Z	04:26:39.4			20.8	217		4.5
WET	e P	Z	03:45:06.3	78.0	10.2	1.0	6	4.7	
	e pP	Z	03:45:21.1						
WLF	e P	Z	03:45:06.9	78.1	6.0	1.1	16	5.1	
GEC2	e P	Z	03:45:07.4	78.2	10.7	1.6	18	4.9	
STU	e P	Z	03:45:10.4	78.8	7.9	1.1	23	5.1	
FUR	e P	Z	03:45:12.7	79.1	9.2	1.1	34	5.2	
BFO	e P	Z	03:45:12.8	79.3	7.4	1.1	10	4.7	
	e pP	Z	03:45:28.7						
RJOB	e P	Z	03:45:14.3	79.4	10.1	0.8	10	4.8	
	e pP	Z	03:45:29.7						

Date 2008/05/23  
 Origin Time 12:27:20.3  
 Lat 23.330S  
 Long 179.130E  
 Depth 547.1  
 mb  
 Ms  
 ML  
 Source SZGRF  
 South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	12:46:02.1	148.3	19.8					
	e PKPab	Z	12:46:07.8							
NRDL	e PKPbc	Z	12:46:05.5	149.7	20.2					
CLL	e PKPbc	Z	12:46:06.6	150.0	26.2					
	e PKPab	Z	12:46:15.1							
BRG	e PKPbc	Z	12:46:06.8	150.2	28.1					
CLZ	e PKPbc	Z	12:46:07.2	150.2	21.1					
IBBN	e PKPbc	Z	12:46:07.3	150.3	16.1					
	e PKPab	Z	12:46:16.4							
TANN	e PKPbc	Z	12:46:08.5	151.0	25.9					
MOX	e PKPbc	Z	12:46:08.2	151.0	24.2					
	e PKPab	Z	12:46:19.1							
UBBA	e PKPbc	Z	12:46:08.8	151.2	21.1					
ROTZ	e PKPbc	Z	12:46:09.9	151.6	25.9					
	e PKPab	Z	12:46:22.5							
	e pPKPab	Z	12:48:24.1							
GRA1	e PKPbc	Z	12:46:10.6	152.0	24.2					
WET	e pPKPab	Z	12:48:26.4	152.0	27.7					
GEC2	e PKPbc	Z	12:46:11.0	152.0	29.5					

	e PKPab	Z	12:46:23.6					
	e pPKPab	Z	12:48:25.6					
TNS	e PKPbc	Z	12:46:11.0	152.1	18.6			
RJOB	e PKPab	Z	12:46:29.4	153.3	28.8			
BFO	e PKPbc	Z	12:46:15.1	154.0	19.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/23	17:46:18.7	4.835N	95.011E	22.4	4.4			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:58:37.3	82.3	91.6	1.2	4	4.4		
	e pP	Z 17:58:43.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/23	19:35:33.9	6.800N	35.140W	33.0N	6.1	6.3		SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 19:45:01.6	55.0	233.1	1.4	248	6.0		
	e S	T 19:52:43.4							
BFO	e P	Z 19:45:05.1	55.4	236.1	2.0	549	6.2		
	e S	T 19:52:47.8							
STU	e P	Z 19:45:09.8	56.1	236.7	2.5	764	6.3		
	e S	T 19:52:57.0							
TNS	e P	Z 19:45:13.1	56.6	235.1	1.0	284	6.2		
	e S	T 19:53:03.8							
BUG	e P	Z 19:45:13.6	56.7	233.3	1.2	263	6.2		
	e S	T 19:53:04.4							
FUR	e P	Z 19:45:16.0	57.0	239.1	1.1	199	6.0		
	e S	T 19:53:07.2							
IBBN	e P	Z 19:45:19.1	57.4	233.3	1.1	259	6.2		
	e S	T 19:53:13.2							
RJOB	e P	Z 19:45:20.3	57.7	240.8	1.0	118	5.9		
	e S	T 19:53:16.3							
UBBA	e P	Z 19:45:21.3	57.7	236.4	2.6	793	6.3		
	e S	T 19:53:18.3							
GRA1	e P	Z 19:45:21.5	57.8	238.2	1.2	471	6.4		
	e S	T 19:53:17.4							
	e L	Z 20:06:23.2			19.7	25062		6.3	
	e PKPPKPbc	Z 20:15:16.2							
ROTZ	e P	Z 19:45:25.6	58.3	239.1	1.2	144	5.9		
	e S	T 19:53:26.3							
WET	e P	Z 19:45:25.6	58.4	240.1	1.3	72	5.5		
	e S	T 19:53:27.9							

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CLZ	e P	Z	19:45:26.5	58.5	236.2	1.2	94	5.7
	e S	T	19:53:28.0					
MOX	e P	Z	19:45:26.7	58.5	238.1	2.0	424	6.1
NRDL	e P	Z	19:45:28.5	58.7	235.6	1.9	538	6.3
	e S	T	19:53:30.7					
GEC2	e P	Z	19:45:28.2	58.7	241.0	2.4	553	6.2
	e S	T	19:53:31.0					
TANN	e P	Z	19:45:29.2	58.8	239.0	2.2	716	6.3
	e S	T	19:53:35.5					
CLL	e P	Z	19:45:34.1	59.6	239.1	1.3	112	5.7
	e S	T	19:53:42.5					
BSEG	e P	Z	19:45:34.2	59.6	235.1	1.1	533	6.5
	e S	T	19:53:40.8					
BRG	e P	Z	19:45:36.4	59.9	240.2	1.2	142	5.9
	e S	T	19:53:45.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/23	22:50:34.0	7.000S	129.500E	98.0				NEIC
Banda Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z 23:04:58.7	111.4	74.1					
	e PKPdf	Z 23:08:56.4							
	e SKPdf	Z 23:12:19.6							
CLL	e Pdiff	Z 23:05:00.7	111.8	73.1					
	e PKPdf	Z 23:08:57.0							
	e SKPdf	Z 23:12:20.5							
GEC2	e Pdiff	Z 23:05:01.4	112.1	74.7					
	e PKPdf	Z 23:08:57.6							
	e SKPdf	Z 23:12:21.1							
TANN	e Pdiff	Z 23:05:02.8	112.4	73.0					
WET	e Pdiff	Z 23:05:03.8	112.5	73.9					
	e PKPdf	Z 23:08:58.5							
	e SKPdf	Z 23:12:21.3							
BSEG	e Pdiff	Z 23:05:04.3	112.5	69.8					
	e PKPdf	Z 23:08:58.9							
	e SKPdf	Z 23:12:22.1							
ROTZ	e Pdiff	Z 23:05:04.5	112.8	73.1					
	e PKPdf	Z 23:08:59.3							
RJOB	e PKPdf	Z 23:08:58.8	113.0	74.4					
NRDL	e Pdiff	Z 23:05:06.2	113.2	70.1					
	e PKPdf	Z 23:09:00.0							
	e SKPdf	Z 23:12:23.5							
CLZ	e PKPdf	Z 23:08:59.8	113.2	70.6					
GRA1	e Pdiff	Z 23:05:07.5	113.4	72.3					
	e PKPdf	Z 23:08:59.5							
UBBA	e PKPdf	Z 23:09:00.8	113.8	70.7					

	e SKPdf	Z	23:12:25.2						
FUR	e PKPdf	Z	23:09:00.9	113.8	72.9				
TNS	e Pdiff	Z	23:05:13.0	114.9	69.6				
	e PKPdf	Z	23:09:03.0						
STU	e PKPdf	Z	23:09:03.5	114.9	70.9				
	e SKPdf	Z	23:12:25.9						
BUG	e PKPdf	Z	23:09:03.2	115.2	68.1				
BFO	e PKPdf	Z	23:09:03.6	115.6	70.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/24								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z 03:02:25.1							
CLL	e PKP	Z 03:02:24.8							
CLZ	e PKP	Z 03:02:23.3							
GEC2	e PKP	Z 03:02:22.9							
GRA1	e PKP	Z 03:02:21.8							
MOX	e PKP	Z 03:02:22.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/24	04:58:20.1	42.050N	30.560W	33.0N	5.2	4.9		SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 05:03:54.0	26.4	267.4					
BUG	e P	Z 05:04:01.6	27.2	264.8					
BFO	e P	Z 05:04:06.3	27.8	271.7	1.5	50	5.1		
TNS	e P	Z 05:04:08.4	27.9	268.2	1.9	87	5.3		
STU	e P	Z 05:04:12.2	28.4	271.5					
UBBA	e P	Z 05:04:16.7	28.9	268.3					
NRDL	e P	Z 05:04:17.7	29.0	265.4					
CLZ	e P	Z 05:04:19.6	29.2	266.8	1.2	37	5.1		
BSEG	e P	Z 05:04:20.1	29.3	263.0	1.1	89	5.5		
GRA1	e P	Z 05:04:23.3	29.7	271.3	1.4	62	5.3		
	e S	E 05:09:21.5							
	e L	Z 05:15:15.6			18.2	2907		4.9	
FUR	e P	Z 05:04:24.8	29.8	274.0	1.5	118	5.5		
MOX	e P	Z 05:04:25.8	29.9	269.9	1.7	49	5.1		
ROTZ	e P	Z 05:04:29.5	30.3	271.9					
TANN	e P	Z 05:04:30.8	30.4	271.0					
WET	e P	Z 05:04:33.3	30.8	273.4	1.2	32	5.1		
CLL	e P	Z 05:04:33.8	30.8	269.9	1.6	36	5.1		
RJOB	e P	Z 05:04:33.7	30.8	275.7					
GEC2	e P	Z 05:04:38.1	31.3	274.5	1.7	67	5.3		

BRG	e P	Z	05:04:38.8	31.4	271.3	1.6	41	5.1		
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/24	08:18:21.9	71.350N	3.350W	33.0N	4.7	3.5		SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	08:22:36.2	18.4	346.2	1.3	58	4.5		
IBBN	e P	Z	08:22:49.7	19.7	349.5					
NRDL	e P	Z	08:22:51.0	19.8	347.3					
CLZ	e P	Z	08:22:58.5	20.5	347.5	1.1	36	4.6		
BUG	e P	Z	08:22:58.1	20.5	350.3	1.4	49	4.6		
CLL	e P	Z	08:23:07.1	21.4	345.7	1.2	52	4.7		
UBBA	e P	Z	08:23:08.5	21.4	348.3					
MOX	e P	Z	08:23:12.5	21.8	347.1	1.4	63	4.9		
TNS	e P	Z	08:23:12.9	21.8	349.9	1.0	21	4.5		
BRG	e P	Z	08:23:13.0	21.9	345.2	1.1	39	4.7		
WLF	e P	Z	08:23:15.3	22.1	351.9					
TANN	e P	Z	08:23:16.1	22.1	346.6					
GRA1	e P	Z	08:23:21.9	22.7	348.0	1.5	72	5.0		
	e L	Z	08:31:45.0			21.8	204		3.5	
ROTZ	e P	Z	08:23:22.5	22.7	347.2					
WET	e P	Z	08:23:30.1	23.4	347.0	2.0	66	4.8		
BFO	e P	Z	08:23:31.8	23.7	350.7	1.4	38	4.7		
GEC2	e P	Z	08:23:34.2	23.9	346.6	1.4	28	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/24	09:24: 8.5	22.070S	179.210W	631.7				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	09:42:42.1	147.3	16.5					
	e PKPab	Z	09:42:46.1							
	e pPKPbc	Z	09:45:03.6							
NRDL	e PKPbc	Z	09:42:45.7	148.7	16.8					
CLL	e PKPbc	Z	09:42:47.0	149.3	22.6					
	e PKPab	Z	09:42:53.9							
	e pPKPbc	Z	09:45:08.5							
IBBN	e PKPbc	Z	09:42:47.3	149.3	12.7					
CLZ	e PKPbc	Z	09:42:47.6	149.3	17.6					
	e pPKPbc	Z	09:45:09.2							
BRG	e PKPbc	Z	09:42:47.6	149.4	24.5					
MOX	e PKPbc	Z	09:42:49.3	150.2	20.5					
	e pPKPbc	Z	09:45:12.9							
BUG	e PKPbc	Z	09:42:49.0	150.2	12.1					

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TANN	e	PKPbc	Z	09:42:49.5	150.2	22.2
UBBA	e	PKPbc	Z	09:42:49.5	150.4	17.5
ROTZ	e	PKPbc	Z	09:42:51.0	150.9	22.1
GRA1	e	PKPbc	Z	09:42:51.7	151.2	20.4
	e	PKPab	Z	09:43:02.6		
	e	pPKPbc	Z	09:45:17.9		
TNS	e	PKPbc	Z	09:42:51.7	151.2	14.9
	e	PKPab	Z	09:43:02.4		
WET	e	PKPbc	Z	09:42:51.7	151.3	23.8
	e	pPKPbc	Z	09:45:18.6		
GEC2	e	PKPbc	Z	09:42:51.7	151.3	25.6
RJOB	e	PKPab	Z	09:43:09.2	152.6	24.8
FUR	e	PKPab	Z	09:43:08.8	152.6	21.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/24	10:28:39.0	19.980S	170.390E	260.2				SZGRF
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z 10:47:40.8	144.0	39.7					
CLZ	e	PKPbc	Z 10:47:43.0	144.5	33.6					
TANN	e	PKPbc	Z 10:47:44.1	144.9	37.9					
IBBN	e	PKPbc	Z 10:47:44.2	145.0	29.3					
MOX	e	PKPbc	Z 10:47:44.5	145.1	36.4					
UBBA	e	PKPbc	Z 10:47:46.0	145.5	33.8					
ROTZ	e	PKPbc	Z 10:47:46.4	145.5	38.1					
GEC2	e	PKPbc	Z 10:47:46.3	145.6	41.2					
WET	e	PKPbc	Z 10:47:46.9	145.7	39.7					
BUG	e	PKPbc	Z 10:47:47.0	145.9	29.1					
GRA1	e	PKPbc	Z 10:47:47.7	146.0	36.7					
TNS	e	PKPbc	Z 10:47:49.5	146.5	31.9					
RJOB	e	PKPbc	Z 10:47:50.0	146.8	40.9					
	e	pPKPbc	Z 10:48:55.8							
FUR	e	PKPbc	Z 10:47:51.2	147.2	38.2					
STU	e	PKPbc	Z 10:47:52.2	147.5	34.3					
WLF	e	PKPbc	Z 10:47:53.4	147.8	28.6					
	e	pPKPbc	Z 10:48:57.6							
BFO	e	PKPbc	Z 10:47:53.7	148.2	33.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/24	13:24: 3.3	8.440S	157.410E	37.9		5.5		SZGRF
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPdf	Z 13:43:05.4	127.4	42.6					



	e PP	Z	13:45:05.1									
BRG	e PKPdf	Z	13:43:06.3	128.0	48.3							
	e PP	Z	13:45:07.6									
CLL	e PKPdf	Z	13:43:06.3	128.1	47.0							
	e PP	Z	13:45:09.2									
NRDL	e PKPdf	Z	13:43:07.5	128.6	43.1							
	e PP	Z	13:45:12.3									
CLZ	e PKPdf	Z	13:43:08.5	128.9	43.8							
	e PP	Z	13:45:14.5									
TANN	e PKPdf	Z	13:43:08.3	129.0	47.0							
	e PP	Z	13:45:15.2									
MOX	e PKPdf	Z	13:43:08.7	129.2	45.9							
	e PP	Z	13:45:15.5									
GEC2	e PKPdf	Z	13:43:09.0	129.4	49.3							
	e pPKPdf	Z	13:43:20.7									
ROTZ	e PKPdf	Z	13:43:09.4	129.5	47.1							
	e PP	Z	13:45:22.0									
WET	e PKPdf	Z	13:43:09.6	129.6	48.2							
	e pPKPdf	Z	13:43:21.0									
IBBN	e PKPdf	Z	13:43:09.6	129.6	40.5							
	e pPKPdf	Z	13:43:21.0									
	e PP	Z	13:45:23.3									
UBBA	e PKPdf	Z	13:43:09.9	129.8	43.9							
GRA1	e PKPdf	Z	13:43:10.3	130.1	46.0							
	e pPKPdf	Z	13:43:21.9									
	e PP	Z	13:45:26.1									
	e L	Z	14:42:34.2			21.8	1100			5.5		
BUG	e PKPdf	Z	13:43:11.1	130.5	40.4							
	e PP	Z	13:45:27.7									
TNS	e PKPdf	Z	13:43:12.2	130.9	42.5							
FUR	e PKPdf	Z	13:43:12.2	131.1	47.0							
	e PP	Z	13:45:32.0									
STU	e PKPdf	Z	13:43:13.3	131.6	44.2							
	e PP	Z	13:45:33.6									
WLF	e PKPdf	Z	13:43:15.5	132.3	40.0							
BFO	e PKPdf	Z	13:43:14.5	132.4	43.5							
	e PP	Z	13:45:36.7									

Date 2008/05/24  
 Origin Time 19:20:56.2  
 Lat 5.214N  
 Long 71.591W  
 Depth 33.0N  
 mb 5.4  
 Ms 5.7  
 ML  
 Source SZGRF  
 Colombia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	19:32:53.2	78.1	264.0					
BUG	e P	Z	19:32:57.5	79.0	264.5	1.3	66	5.5		
IBBN	e P	Z	19:32:59.6	79.4	264.7					
BFO	e P	Z	19:32:59.5	79.4	265.9	1.2	34	5.3		

TNS	e P	Z	19:33:01.0	79.6	265.7						
STU	e P	Z	19:33:02.6	80.0	266.5						
UBBA	e P	Z	19:33:06.4	80.7	266.8						
NRDL	e P	Z	19:33:08.0	80.8	266.6						
CLZ	e P	Z	19:33:08.1	80.9	266.9	1.1	44	5.4			
BSEG	e P	Z	19:33:07.9	81.0	266.5	1.1	32	5.2			
FUR	e P	Z	19:33:10.7	81.4	268.2	2.0	138	5.6			
GRA1	e P	Z	19:33:10.7	81.4	267.9	1.2	32	5.2			
	e S	N	19:43:24.2								
	e L	Z	20:07:55.6			21.1	3469	5.7			
MOX	e P	Z	19:33:11.9	81.7	268.1	2.1	57	5.3			
ROTZ	e P	Z	19:33:14.2	82.0	268.6						
TANN	e P	Z	19:33:14.5	82.2	268.7						
WET	e P	Z	19:33:16.3	82.4	269.2	1.5	39	5.3			
CLL	e P	Z	19:33:16.4	82.6	269.1	1.7	48	5.4			
GEC2	e P	Z	19:33:18.6	83.0	269.9	1.2	32	5.4			
BRG	e P	Z	19:33:19.5	83.1	269.8	1.5	37	5.4			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/25 02:07:41.0 14.950S 14.454W 33.0N 4.9  
 Southern Mid-Atlantic Ridge

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 02:18:40.4 68.5 206.7 1.1 9 4.9

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/25 03:25:37.2 46.603N 156.229E 33.0N 4.7  
 East of Kuril Islands, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 03:37:38.5 79.0 23.7 0.9 8 4.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/25 03:43:22.5 29.718N 107.583E 33.0N 4.3  
 Sichuan, China

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
 GRA1 e P Z 03:54:41.0 71.6 65.5 1.1 3 4.3

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/25 04:27:25.6 34.413N 103.502E 33.0N 4.8  
 SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:38:08.0	65.8	64.6	1.0	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/25	05:45:37.2	13.831N	92.635W	70.6	5.1			SZGRF

Off coast of Chiapas, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:58:20.3	88.2	289.4	1.2	11	5.1		
	e pP	Z 05:58:39.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/25	08:21:52.0	33.010N	105.910E	33.0N	6.1	6.2		SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e S	T 08:41:14.3	65.1	67.5					
RUE	e P	Z 08:32:34.2	65.6	67.0	1.3	218	6.2		
BRG	e P	Z 08:32:37.5	66.1	66.4	1.4	120	5.9		
	e S	T 08:41:25.4							
CLL	e P	Z 08:32:39.6	66.5	65.9	1.4	138	6.0		
	e S	T 08:41:29.2							
BSEG	e P	Z 08:32:43.1	66.9	65.1	0.8	174	6.3		
	e S	T 08:41:36.2							
GEC2	e P	Z 08:32:43.8	67.1	65.4	1.2	129	6.0		
	e S	T 08:41:38.4							
TANN	e P	Z 08:32:44.3	67.2	65.2	1.4	130	6.0		
	e S	T 08:41:38.0							
WERD	e P	Z 08:32:44.7	67.3	65.2	1.4	111	5.9		
GUNZ	e P	Z 08:32:45.0	67.3	65.1	1.4	192	6.1		
WERN	e P	Z 08:32:45.1	67.3	65.1	1.4	144	6.0		
WET	e P	Z 08:32:46.3	67.5	65.0	1.2	94	5.9		
	e S	T 08:41:42.0							
MOX	e P	Z 08:32:46.8	67.6	64.8	1.2	81	5.8		
	e S	T 08:41:43.3							
ROTZ	e P	Z 08:32:47.5	67.6	64.8	1.3	208	6.2		
	e S	T 08:41:45.3							
NRDL	e P	Z 08:32:47.7	67.6	64.4	1.2	209	6.2		
	e S	T 08:41:45.1							
CLZ	e P	Z 08:32:48.4	67.8	64.4	1.3	296	6.4		
	e S	T 08:41:45.8							
RJOB	e P	Z 08:32:50.7	68.1	64.5	1.4	93	5.8		
GRA1	e P	Z 08:32:51.2	68.2	64.2	1.2	331	6.4		

	e S	T	08:41:51.8							
	e L	Z	08:59:56.2			20.0	12974		6.2	
UBBA	e P	Z	08:32:52.0	68.4	63.8	2.1	170	5.9		
	e S	T	08:41:52.8							
FUR	e P	Z	08:32:55.3	68.9	63.7	1.2	345	6.5		
	e S	T	08:41:59.5							
IBBN	e P	Z	08:32:55.9	69.0	62.8	1.5	223	6.2		
TNS	e P	Z	08:32:59.3	69.6	62.5	1.3	167	6.0		
	e S	T	08:42:06.2							
BUG	e P	Z	08:33:00.1	69.7	62.1	1.6	262	6.1		
	e S	T	08:42:08.6							
STU	e P	Z	08:33:00.5	69.8	62.5	1.5	145	5.9		
BFO	e P	Z	08:33:04.7	70.5	61.8	1.6	160	5.9		
WLF	e P	Z	08:33:09.5	71.1	60.8	1.6	454	6.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/25	09:34:12.8	34.446N	106.857E	33.0N	4.9			SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:45:07.4	67.7	62.5	1.0	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/25	15:11:38.0	38.200N	22.700E	33.0N		3.1		NOA

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:15:06.2	14.1	140.1					
	e L	Z 15:21:17.9			21.0	146		3.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/25	19:18:22.1	55.460N	155.330W	33.0N	5.5	6.2		SZGRF

South of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z 19:29:31.7	69.5	349.9					
	e S	T 19:38:37.9							
BSEG	e P	Z 19:29:32.9	70.0	351.4	1.2	80	5.7		
IBBN	e P	Z 19:29:41.0	71.3	350.0	1.1	67	5.7		
	e S	T 19:38:58.6							
NRDL	e P	Z 19:29:41.1	71.4	351.3	1.1	78	5.7		
	e S	T 19:39:00.3							
RUE	e P	Z 19:29:43.3	71.7	353.5	1.1	88	5.8		

CLZ	e P	Z	19:29:45.7	72.0	351.5	1.2	94	5.8		
BUG	e P	Z	19:29:45.3	72.1	349.7	1.1	98	5.9		
	e S	T	19:39:07.7							
CLL	e P	Z	19:29:49.4	72.8	353.1	1.0	34	5.4		
UBBA	e P	Z	19:29:51.0	73.0	351.4	1.6	55	5.4		
	e S	T	19:39:18.5							
BRG	e P	Z	19:29:52.7	73.3	353.7	1.2	45	5.4		
MOX	e P	Z	19:29:52.9	73.3	352.3	1.2	72	5.6		
	e S	T	19:39:21.5							
TNS	e P	Z	19:29:53.5	73.5	350.5	1.1	77	5.6		
WERD	e P	Z	19:29:54.5	73.6	352.7	1.3	33	5.2		
TANN	e P	Z	19:29:54.9	73.6	352.8	1.3	34	5.2		
	e S	T	19:39:25.1							
GUNZ	e P	Z	19:29:55.0	73.7	352.7	1.4	39	5.3		
WLF	e P	Z	19:29:55.5	73.7	349.2	1.5	105	5.6		
	e S	T	19:39:28.5							
WERN	e P	Z	19:29:55.7	73.8	352.8	1.2	40	5.3		
GRA1	e P	Z	19:29:58.4	74.3	352.1	1.1	63	5.5		
	e S	T	19:39:33.3							
	e L	Z	20:08:57.6			18.7	12559		6.2	
ROTZ	e P	Z	19:29:58.8	74.3	352.7	1.1	40	5.3		
WET	e P	Z	19:30:02.7	74.9	353.1	1.4	52	5.4		
	e S	T	19:39:40.8							
STU	e P	Z	19:30:02.3	75.0	351.0	1.7	70	5.4		
	e S	T	19:39:40.5							
GEC2	e P	Z	19:30:04.5	75.3	353.6	1.1	26	5.3		
BFO	e P	Z	19:30:04.2	75.3	350.5	1.2	38	5.4		
FUR	e P	Z	19:30:07.1	75.8	352.2	1.2	72	5.7		
RJOB	e P	Z	19:30:10.2	76.3	353.1	0.9	46	5.6		
	e S	T	19:39:56.0							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/26 15:01:39.8 8.154N 82.624W 33.0N 5.5 5.8  
 Panama-Costa Rica border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:14:18.5	86.3	278.2	1.9	74	5.5		
	e S	E 15:24:51.2							
	e SS	E 15:30:39.0							
	e L	Z 15:47:58.3			20.5	4119		5.8	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/26 23:01:22.9 44.374N 149.149E 33.0N 5.1  
 Kuril Islands, Russia

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:13:24.2	79.0	29.2	0.8	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/27	05:51:11.8	56.600S	147.400E	10.0		5.8		NEIC

West of Macquarie Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e PKPdf	Z 06:11:03.7	151.4	125.1					
GEC2	e PKPdf	Z 06:11:04.3	151.5	123.5					
WET	e PKPdf	Z 06:11:05.6	152.1	122.9					
BRG	e PKPdf	Z 06:11:05.6	152.4	120.3					
ROTZ	e PKPdf	Z 06:11:06.5	152.8	121.9					
CLL	e PKPdf	Z 06:11:06.5	153.2	119.4					
GRA1	e PKPdf	Z 06:11:06.6	153.3	121.9					
	e L	Z 07:27:22.6			22.0	1555		5.8	
CLZ	e PKPdf	Z 06:11:08.1	154.9	117.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/27	08:03:35.5	33.700N	104.170E	33.0N	5.3	4.8		SZGRF

Gansu, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 08:14:11.5	64.6	67.0	1.1	16	5.2		
CLL	e P	Z 08:14:13.4	65.0	66.6	1.2	22	5.3		
BSEG	e P	Z 08:14:16.9	65.4	65.9	0.9	36	5.6		
GEC2	e P	Z 08:14:17.7	65.6	66.0	1.3	19	5.2		
TANN	e P	Z 08:14:18.5	65.7	65.9	1.3	16	5.1		
WET	e P	Z 08:14:20.2	66.0	65.6	1.4	15	5.0		
MOX	e P	Z 08:14:20.8	66.1	65.4	1.4	18	5.1		
ROTZ	e P	Z 08:14:21.5	66.1	65.4					
NRDL	e P	Z 08:14:21.7	66.2	65.1					
CLZ	e P	Z 08:14:22.5	66.3	65.1	1.2	34	5.5		
RJOB	e P	Z 08:14:24.7	66.6	65.0					
GRA1	e P	Z 08:14:25.2	66.7	64.8	1.2	50	5.6		
	e L	Z 08:41:27.6			18.9	552		4.8	
FUR	e P	Z 08:14:29.1	67.3	64.2	1.2	56	5.7		
IBBN	e P	Z 08:14:30.1	67.5	63.5					
BUG	e P	Z 08:14:34.7	68.2	62.8	1.3	40	5.5		
BFO	e P	Z 08:14:38.6	69.0	62.4	1.4	19	5.1		
WLF	e P	Z 08:14:43.8	69.6	61.5	1.3	58	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2008/05/27 08:37:57.5  
Sichuan, China

32.446N 104.968E 33.0N 5.8 5.5 SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	08:48:37.2	65.5	68.0	1.2	152	6.1		
BRG	e P	Z	08:48:40.5	66.0	67.5	0.8	44	5.7		
CLL	e P	Z	08:48:42.6	66.4	67.0	1.0	54	5.7		
BSEG	e P	Z	08:48:46.1	66.8	66.2	0.9	125	6.1		
GEC2	e P	Z	08:48:46.9	66.9	66.5	1.1	47	5.6		
TANN	e P	Z	08:48:47.3	67.0	66.3	1.0	44	5.6		
NEUB	e P	Z	08:48:47.6	67.1	66.1	0.9	105	6.0		
WERD	e P	Z	08:48:47.7	67.1	66.2	0.9	33	5.5		
GUNZ	e P	Z	08:48:47.9	67.1	66.2	0.9	59	5.8		
WERN	e P	Z	08:48:48.0	67.1	66.2	0.9	44	5.7		
PLN	e P	Z	08:48:48.2	67.2	66.1	1.1	167	6.2		
ROHR	e P	Z	08:48:48.2	67.2	66.1					
WET	e P	Z	08:48:49.4	67.3	66.1	1.2	37	5.5		
MOX	e P	Z	08:48:49.8	67.4	65.8	1.1	36	5.5		
ROTZ	e P	Z	08:48:50.5	67.5	65.9	1.0	66	5.8		
NRDL	e P	Z	08:48:50.7	67.5	65.5	1.0	103	6.0		
CLZ	e P	Z	08:48:51.4	67.7	65.4	0.9	103	6.1		
GRA1	e P	Z	08:48:54.2	68.1	65.2	1.0	107	6.0		
	e L	Z	09:20:40.9			18.3	2456		5.5	
UBBA	e P	Z	08:48:55.0	68.3	64.8	1.5	53	5.5		
FUR	e P	Z	08:48:58.3	68.7	64.7	1.2	173	6.2		
IBBN	e P	Z	08:48:59.0	68.9	63.8					
TNS	e P	Z	08:49:02.4	69.5	63.6	1.2	52	5.5		
BUG	e P	Z	08:49:03.1	69.6	63.2	0.9	66	5.8		
STU	e P	Z	08:49:03.5	69.7	63.6	1.3	59	5.5		
BFO	e P	Z	08:49:07.8	70.4	62.9	1.3	43	5.4		
WLF	e P	Z	08:49:12.5	71.0	61.9	1.2	120	5.9		

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/27

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:16:24.0							
GRA1	e P	Z	10:16:33.2			1.0	14			
RJOB	e P	Z	10:16:27.6							
WET	e P	Z	10:16:27.0							

Date Origin Time Lat Long Depth mb Ms ML Source  
2008/05/27 17:35:16.4 32.156N 104.383E 33.0N 5.1 SZGRF  
Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	17:46:00.5	66.3	67.6	1.3	13	5.0		
BSEG	e P	Z	17:46:04.1	66.7	66.8	0.9	18	5.3		
GEC2	e P	Z	17:46:04.7	66.8	67.1					
TANN	e P	Z	17:46:05.6	66.9	66.9	1.0	7	4.9		
ROTZ	e P	Z	17:46:08.3	67.3	66.5	1.2	14	5.1		
NRDL	e P	Z	17:46:08.5	67.4	66.1	1.1	17	5.2		
CLZ	e P	Z	17:46:09.5	67.5	66.0	1.1	17	5.2		
GRA1	e P	Z	17:46:12.2	67.9	65.8	0.8	15	5.3		
WLF	e P	Z	17:46:30.7	70.9	62.5					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/27 17:34:13.2 21.240S 169.930E 33.0N 5.1  
 Southeast of Loyalty Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	17:53:45.4	145.0	39.5					
CLZ	e PKPbc	Z	17:53:47.4	145.5	35.1					
TANN	e PKPbc	Z	17:53:48.4	145.9	39.5					
IBBN	e PKPbc	Z	17:53:48.7	146.0	30.7					
MOX	e PKPbc	Z	17:53:48.8	146.0	38.1					
ROTZ	e PKPbc	Z	17:53:50.7	146.5	39.8					
UBBA	e PKPbc	Z	17:53:50.5	146.5	35.4					
GEC2	e PKPbc	Z	17:53:50.5	146.5	42.9					
WET	e PKPbc	Z	17:53:51.2	146.7	41.4					
BUG	e PKPbc	Z	17:53:52.0	146.9	30.6					
GRA1	e PKPbc	Z	17:53:52.3	146.9	38.3					
	e L	Z	19:02:08.2			20.8	344		5.1	
TNS	e PKPbc	Z	17:53:53.8	147.6	33.5					
RJOB	e PKPbc	Z	17:53:54.1	147.7	42.7					
FUR	e PKPbc	Z	17:53:55.7	148.1	39.9					
STU	e PKPbc	Z	17:53:56.7	148.5	36.0					
WLF	e PKPbc	Z	17:53:57.8	148.8	30.2					
BFO	e PKPbc	Z	17:53:58.3	149.2	35.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/27

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:07:05.5							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/27 23:26: 5.2 35.389N 22.094E 10.0G SZGRF



## Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z 23:29:25.8	14.1	147.4					
	e Sn	Z 23:31:52.2							
GEC2	e Pn	Z 23:29:33.3	14.8	152.2					
	e Sn	N 23:32:12.8							
FUR	e Pn	Z 23:29:36.4	15.1	144.0					
	e Sn	N 23:32:12.8							
WET	e Pn	Z 23:29:40.8	15.3	150.4					
	e Sn	Z 23:32:18.8							
GRA1	e Pn	Z 23:29:57.4	16.4	146.9					
	e Sn	Z 23:32:42.5							
BFO	e Pn	Z 23:29:55.5	16.5	136.8					
	e Sn	Z 23:32:42.5							
TANN	e Pn	Z 23:29:59.2	16.6	151.4					
MOX	e Pn	Z 23:30:04.2	17.0	149.6					
CLL	e Pn	Z 23:30:07.4	17.2	154.2					
TNS	e Pn	Z 23:30:14.9	17.8	141.1					
	e Sn	Z 23:33:17.9							
WLF	e Pn	Z 23:30:21.5	18.4	134.8					
CLZ	e Pn	Z 23:30:21.2	18.5	148.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 06:40:37.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/28	09:21:32.7	33.100S	179.100W	40.0				NEIC
South of Kermadec Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRFO	e PKP	Z 09:42:16.2	161.7	28.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/28	13:20:31.3	80.880N	2.440E	33.0N	5.1	4.4		SZGRF
North of Svalbard								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 13:26:24.1	28.5	357.5	1.5	55	5.2		
CLZ	e P	Z 13:26:29.6	29.1	357.4	1.5	59	5.2		
CLL	e P	Z 13:26:34.6	29.8	356.6	1.6	48	5.1		
UBBA	e P	Z 13:26:38.2	30.2	357.6	2.0	53	5.0		

BRG	e P	Z	13:26:38.3	30.2	356.4	1.6	50	5.1	
MOX	e P	Z	13:26:40.5	30.4	357.1	1.4	50	5.1	
WERD	e P	Z	13:26:42.6	30.6	356.9	1.7	64	5.2	
TANN	e P	Z	13:26:43.2	30.6	356.9	1.7	66	5.2	
GUNZ	e P	Z	13:26:43.5	30.7	356.9	1.7	79	5.3	
WERN	e P	Z	13:26:44.1	30.8	356.9	1.4	56	5.3	
ROTZ	e P	Z	13:26:48.7	31.3	357.0	1.4	30	5.0	
GRA1	e P	Z	13:26:48.7	31.3	357.3	1.0	30	5.2	
	e L	Z	13:41:13.4			19.2	717		4.4
WET	e P	Z	13:26:54.2	31.9	356.9	1.8	67	5.3	
GEC2	e P	Z	13:26:56.7	32.3	356.7	1.6	55	5.2	
BFO	e P	Z	13:26:59.5	32.6	358.3	1.4	23	4.9	
RJOB	e P	Z	13:27:06.9	33.3	357.0	1.0	12	4.8	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/28 16:42:10.3 39.904N 139.894E 33.0N 4.6 4.8  
 Near west coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:54:15.1	79.7	37.5	1.0	8	4.6		
	e L	Z 17:20:38.3			20.0	455		4.8	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/28 21:39: 5.0 13.100S 74.400W 85.0 5.6  
 Central Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:52:28.2	97.2	258.2	1.0	18	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/29

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 10:33:37.2							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/29 15:45:56.8 64.470N 21.810W 33.0N 6.1 6.0  
 Iceland

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z 15:50:03.6	18.0	316.4	1.9	4158			

BSEG	e P	Z	15:50:17.8	19.2	315.9	1.9	3047	6.1	
IBBN	e P	Z	15:50:19.7	19.4	320.2	2.6	7504		
	e S	T	15:53:59.8						
BUG	e P	Z	15:50:24.5	19.9	322.0	1.4	897	5.7	
RGN	e P	Z	15:50:28.9	20.0	313.6	3.1	23846		
NRDL	e P	Z	15:50:29.8	20.2	318.7	2.0	3366		
	e S	T	15:54:16.4						
CLZ	e P	Z	15:50:37.3	20.8	319.7	3.0	7505	6.3	
WLF	e P	Z	15:50:37.1	20.9	325.5	1.8	2341		
TNS	e P	Z	15:50:42.0	21.3	323.3	2.4	7304		
UBBA	e P	Z	15:50:44.0	21.4	321.6	2.5	12639		
RUE	e P	Z	15:50:47.1	21.7	317.3	2.9	18633		
MOX	e P	Z	15:50:52.0	22.2	321.1	2.1	5403		
	e S	T	15:54:56.4						
CLL	e P	Z	15:50:52.6	22.3	319.5	1.9	4050	6.3	
	e S	T	15:54:55.7						
WERD	e P	Z	15:50:56.3	22.6	321.1	1.6	1720		
GUNZ	e P	Z	15:50:57.2	22.7	321.2	2.0	2658	6.1	
TANN	e P	Z	15:50:57.2	22.7	321.1	1.6	1446		
	e S	T	15:55:06.6						
STU	e P	Z	15:50:57.6	22.8	325.0	1.3	1126		
WERN	e P	Z	15:50:57.6	22.8	321.3	1.7	2026		
GRA1	e P	Z	15:50:58.5	22.8	322.7	1.8	2392	6.1	
	e L	Z	15:59:40.0			19.4	51014		6.0
BFO	e P	Z	15:50:58.2	22.8	326.1	1.4	984	5.9	
BRG	e P	Z	15:50:59.9	23.0	319.8	1.8	1527	5.9	
	e S	T	15:55:11.3						
ROTZ	e P	Z	15:51:01.7	23.1	322.1	2.0	1700		
WET	e P	Z	15:51:09.8	23.9	322.7	2.2	3677		
FUR	e P	Z	15:51:11.1	24.1	324.7	2.3	7233	6.6	
GEC2	e P	Z	15:51:15.6	24.5	322.8	2.3	2951	6.3	
	e S	T	15:55:36.6						
RJOB	e P	Z	15:51:20.6	25.0	324.6	2.0	2479		

Date 2008/05/29 Origin Time 18:27:46.2 Lat 51.110N Long 177.406E Depth 33.0N mb 4.4 Ms ML Source SZGRF  
 Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:39:44.5	78.5	8.8	1.0	4	4.4		

Date 2008/05/30 Origin Time 07:25:41.0 Lat 31.010N Long 142.440E Depth 37.0 mb 5.5 Ms ML Source SZGRF  
 Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 07:38:17.0	85.5	39.6	1.3	53	5.5		
BRG	e P	Z 07:38:21.3	86.4	42.2	2.3	97	5.5		
CLL	e P	Z 07:38:21.2	86.5	41.5	1.9	68	5.5		
	e pP	Z 07:38:32.5							
CLZ	e P	Z 07:38:24.9	87.1	39.6	1.5	39	5.3		
TANN	e P	Z 07:38:26.1	87.4	41.1	2.0	40	5.4		
	e pP	Z 07:38:36.6							
	e PP	Z 07:41:50.4							
MOX	e P	Z 07:38:26.7	87.5	40.5	2.6	88	5.6		
	e pP	Z 07:38:37.3							
	e PP	Z 07:41:52.5							
IBBN	e P	Z 07:38:27.7	87.8	37.6	1.7	71	5.7		
	e PP	Z 07:41:54.1							
ROTZ	e P	Z 07:38:29.1	88.0	40.9	2.3	109	5.8		
	e pP	Z 07:38:39.7							
	e PP	Z 07:41:56.1							
GEC2	e P	Z 07:38:28.5	88.0	42.0	1.3	8	4.9		
	e PP	Z 07:41:56.1							
UBBA	e P	Z 07:38:29.1	88.1	39.3	2.6	96	5.7		
	e PP	Z 07:41:56.6							
WET	e P	Z 07:38:29.7	88.1	41.4	2.1	43	5.4		
	e pP	Z 07:38:40.3							
	e PP	Z 07:41:58.0							
GRA1	e P	Z 07:38:31.2	88.4	40.2	1.9	59	5.5		
	e S	T 07:49:16.0							
	e L	Z 08:20:51.7			20.2	2425		5.6	
BUG	e P	Z 07:38:31.5	88.6	37.2	1.0	14	5.2		
	e PP	Z 07:42:01.8							
TNS	e P	Z 07:38:34.4	89.1	38.1	1.7	51	5.5		
	e PP	Z 07:42:05.8							
FUR	e P	Z 07:38:36.4	89.6	40.2	2.0	139	5.8		
STU	e P	Z 07:38:38.1	90.0	38.6	0.7	12	5.2		
WLF	e P	Z 07:38:41.0	90.5	36.3	1.9	88	5.8		
	e pP	Z 07:38:52.3							
BFO	e P	Z 07:38:41.1	90.7	38.0	1.5	24	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2008/05/30 15:47:23.5 25.556N 128.492E 23.3 4.6 4.6 ML SZGRF  
 Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:00:03.2	86.5	53.5	0.9	5	4.6		
	e pP	Z 16:00:10.0							
	e L	Z 16:41:55.0			19.8	216		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/30	17:22:58.0	40.824N	15.090E	267.7				SZGRF

Southern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e P	Z	17:24:23.1	5.7	175.9					
KBA	e P	Z	17:24:31.1	6.4	168.0					
	e S	N	17:25:45.5							
ARSA	e P	Z	17:24:31.9	6.4	182.9					
WTTA	e P	Z	17:24:37.9	6.9	157.7					
MOA	e P	Z	17:24:39.2	7.1	174.9					
DAVA	e P	Z	17:24:43.5	7.5	148.1					
FUR	e P	Z	17:24:47.5	7.8	158.3					
GEC2	e P	Z	17:24:51.5	8.1	172.5					
WET	e P	Z	17:24:55.2	8.5	168.6					
BFO	e P	Z	17:25:00.5	8.9	144.9					
ROTZ	e P	Z	17:25:04.2	9.2	166.2					
GRA1	e P	Z	17:25:05.4	9.3	161.5					
BRG	e P	Z	17:25:16.2	10.1	175.0					
MOX	e P	Z	17:25:16.8	10.1	164.9					
TNS	e P	Z	17:25:23.1	10.5	151.2					
CLL	e P	Z	17:25:22.5	10.6	171.4					
UBBA	e P	Z	17:25:22.8	10.6	158.6					
CLZ	e P	Z	17:25:33.2	11.5	161.8					
BUG	e P	Z	17:25:40.6	11.9	150.1					
NRDL	e P	Z	17:25:42.9	12.2	161.8					
IBBN	e P	Z	17:25:47.4	12.5	153.6					
BSEG	e P	Z	17:25:56.7	13.5	164.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/30	17:43: 1.0	23.660N	128.110E	33.3	5.0	4.6		SZGRF

Southeast of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	17:55:34.0	84.9	56.9	0.7	18	5.4		
BRG	e P	Z	17:55:38.0	85.7	56.9	1.3	13	4.9		
	e pP	Z	17:55:47.3							
BSEG	e P	Z	17:55:37.6	85.8	54.3	0.9	8	4.9		
CLL	e P	Z	17:55:38.8	86.0	56.2	1.1	12	5.0		
	e pP	Z	17:55:48.5							
TANN	e P	Z	17:55:43.3	86.8	55.8	1.3	9	4.8		
GUNZ	e pP	Z	17:55:53.6	86.9	55.7					
GEC2	e P	Z	17:55:43.9	87.0	56.6	1.1	7	4.7		
	e pP	Z	17:55:53.9							
CLZ	e P	Z	17:55:44.5	87.0	54.3	1.0	9	4.9		
ROTZ	e P	Z	17:55:46.2	87.3	55.6	1.0	10	4.9		

	e pP	Z	17:55:55.6							
GRA1	e P	Z	17:55:48.5	87.8	54.8	0.9		12	5.2	
	e pP	Z	17:55:58.7							
	e L	Z	18:38:13.0			21.0		229		4.6
WLF	e P	Z	17:55:59.8	90.5	51.0	1.1		10	5.1	

Date 2008/05/30 Origin Time 18:11:40.6 Lat 24.860N Long 130.870E Depth 33.9 mb 5.1 Ms 4.9 ML Source SZGRF  
Southeast of Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:24:19.0	86.2	54.2	1.1	15	5.0		
	e pP	Z	18:24:28.6							
CLL	e P	Z	18:24:20.0	86.4	53.5	0.9	20	5.2		
	e pP	Z	18:24:29.4							
TANN	e P	Z	18:24:24.5	87.2	53.0	1.1	9	4.8		
MOX	e P	Z	18:24:26.0	87.5	52.4	1.5	16	5.1		
GEC2	e P	Z	18:24:25.4	87.5	53.9	1.0	14	5.2		
	e pP	Z	18:24:35.4							
ROTZ	e P	Z	18:24:27.3	87.7	52.8	1.6	31	5.4		
	e pP	Z	18:24:37.0							
WET	e P	Z	18:24:27.5	87.7	53.3	1.9	32	5.3		
UBBA	e P	Z	18:24:29.3	88.2	51.2	0.8	4	4.8		
GRA1	e P	Z	18:24:28.9	88.3	52.1	1.3	29	5.3		
	e pP	Z	18:24:39.7							
	e L	Z	19:06:23.2			20.2	427			4.9
FUR	e pP	Z	18:24:44.1	89.2	52.1					
BFO	e P	Z	18:24:39.6	90.6	49.9	1.9	23	5.2		

Date 2008/05/30 Origin Time 23:22:22.1 Lat 4.300S Long 152.800E Depth 33.0 mb Ms ML Source GSRC  
New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	23:41:15.1	121.8	45.6					
BRG	e PKPdf	Z	23:41:15.8	122.1	50.8					
CLL	e PKPdf	Z	23:41:16.0	122.3	49.6					
NRDL	e PKPdf	Z	23:41:17.2	122.8	46.0					
TANN	e PKPdf	Z	23:41:17.6	123.2	49.5					
CLZ	e PKPdf	Z	23:41:18.2	123.2	46.6					
MOX	e PKPdf	Z	23:41:18.0	123.4	48.5					
GEC2	e PKPdf	Z	23:41:18.4	123.5	51.6					
WET	e PKPdf	Z	23:41:18.9	123.8	50.6					
GRA1	e PKPdf	Z	23:41:19.5	124.2	48.6					
BUG	e PKPdf	Z	23:41:20.9	124.8	43.4					

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TNS	e PKPdf	Z	23:41:21.1	125.2	45.3
STU	e PKPdf	Z	23:41:23.1	125.8	46.9
BFO	e PKPdf	Z	23:41:23.9	126.6	46.2
WLF	e PKPdf	Z	23:41:24.3	126.6	43.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	01:24:23.1	28.319N	55.053E	33.0N	4.0			SZGRF

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:31:50.2	39.4	106.2	1.1	4	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	03:15:51.7	17.610S	174.490W	261.2				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 03:35:24.3	144.9	7.6					
IBBN	e PKPbc	Z 03:35:25.6	145.3	3.8					
CLZ	e PKPbc	Z 03:35:26.3	145.6	8.2					
CLL	e PKPbc	Z 03:35:26.9	145.8	12.8					
BRG	e PKPbc	Z 03:35:28.1	146.1	14.5					
UBBA	e PKPbc	Z 03:35:29.5	146.6	7.8					
MOX	e PKPbc	Z 03:35:29.3	146.6	10.6					
	e pPKPbc	Z 03:36:33.8							
TANN	e PKPbc	Z 03:35:30.2	146.7	12.1					
	e pPKPbc	Z 03:36:36.6							
ROTZ	e PKPbc	Z 03:35:31.9	147.4	11.9					
	e pPKPbc	Z 03:36:36.2							
GRA1	e PKPbc	Z 03:35:32.5	147.6	10.2					
WET	e PKPbc	Z 03:35:33.6	147.9	13.3					
WLF	e PKPbc	Z 03:35:33.6	147.9	1.2					
	e pPKPbc	Z 03:36:37.8							
GEC2	e PKPbc	Z 03:35:33.8	148.1	14.9					
	e pPKPbc	Z 03:36:41.1							
STU	e PKPbc	Z 03:35:35.5	148.7	6.8					
FUR	e PKPbc	Z 03:35:36.6	149.1	10.7					
BFO	e PKPbc	Z 03:35:36.8	149.2	5.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	04:37:59.6	40.400S	80.900E	20.0		6.1		GSRC

Mid-Indian Ridge

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Sdiff	E	05:04:09.4	106.8	132.4					
GEC2	e Sdiff	E	05:04:11.3	107.1	132.7					
	e SP	Z	05:06:03.0							
WET	e Sdiff	E	05:04:17.5	107.7	132.2					
BRG	e Sdiff	E	05:04:27.3	108.3	132.4					
TANN	e Sdiff	E	05:04:32.4	108.7	131.6					
GRA1	e Sdiff	E	05:04:33.5	108.9	131.0					
	e L	Z	05:45:47.9			21.0	5627		6.1	
CLL	e Sdiff	E	05:04:23.2	109.1	131.7					
STU	e PP	Z	04:56:57.2	109.3	130.0					
MOX	e Sdiff	E	05:04:31.2	109.3	131.0					
BFO	e Sdiff	E	05:04:39.7	109.4	129.6					
RUE	e Sdiff	E	05:04:33.5	109.5	131.9					
UBBA	e Sdiff	E	05:04:37.9	110.2	129.9					
IBBN	e Sdiff	E	05:05:00.3	112.2	128.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	05:03:22.9	35.068N	144.228E	33.0N	5.1			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:15:58.3	85.6	36.9	1.3	21	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	05:52:37.9	44.981N	149.190E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:04:36.2	78.5	28.9	1.0	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	06:22:45.2	32.500N	105.300E	33.0	4.7			GSRC

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:33:48.6	68.2	64.9	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	06:23:45.6	43.643N	147.520E	33.0N	4.6			SZGRF

Kuril Islands, Russia



Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:35:47.6	79.2	30.6	0.9	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	07:55:51.3	37.146N	143.376E	33.0N	5.1			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:08:15.8	83.4	36.5	1.3	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	08:05:20.5	14.382N	92.308W	33.0N	5.4			SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:18:05.5	87.5	289.5	1.9	36	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	14:28:37.7	40.657N	143.646E	33.0N	5.1	4.4		SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	14:40:29.0	77.3	36.7	1.7	57	5.4		
BSEG	e P	Z	14:40:29.3	77.3	34.5	0.8	23	5.3		
CLL	e P	Z	14:40:35.1	78.5	36.0	0.9	19	5.2		
BRG	e P	Z	14:40:35.4	78.5	36.6	0.9	12	4.9		
NRDL	e P	Z	14:40:35.8	78.5	34.1	1.0	11	4.8		
CLZ	e P	Z	14:40:38.7	79.0	34.2	1.1	28	5.2		
IBBN	e P	Z	14:40:41.2	79.5	32.5	0.8	25	5.2		
GUNZ	e P	Z	14:40:41.1	79.5	35.4	0.8	12	4.8		
MOX	e P	Z	14:40:41.2	79.5	35.0	1.0	10	4.7		
WERN	e P	Z	14:40:41.5	79.5	35.4	0.9	13	4.8		
UBBA	e P	Z	14:40:43.4	80.0	33.9					
ROTZ	e P	Z	14:40:44.4	80.0	35.3	1.0	12	4.8		
GEC2	e P	Z	14:40:44.6	80.2	36.2	1.0	11	4.9		
WET	e P	Z	14:40:45.6	80.3	35.7	1.0	17	5.0		
BUG	e P	Z	14:40:45.7	80.4	32.1	1.0	17	5.0		
GRA1	e P	Z	14:40:46.7	80.5	34.6	0.9	44	5.5		
	e L	Z	15:20:32.9			18.0	166		4.4	
TNS	e P	Z	14:40:49.2	81.0	32.8	1.1	21	5.1		
RJOB	e P	Z	14:40:51.9	81.5	35.5	1.0	21	5.2		
FUR	e P	Z	14:40:52.9	81.7	34.5	0.9	42	5.6		

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STU	e P	Z	14:40:54.1	82.0	33.2	1.0	31	5.4
BFO	e P	Z	14:40:57.6	82.6	32.5	0.9	13	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	21:10:14.0	52.766N	160.041E	33.0N	4.8			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:21:47.9	74.2	19.0	1.1	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2008/05/31	23:16: 7.2	28.600S	112.500W	33.0		5.4		GSRC

Easter Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:35:19.3	132.9	274.9					
	e L	Z 00:26:12.2			20.8	850		5.4	

#### 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