

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

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

JUNE 2006 UPDATED 8.DECEMBER.2006

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				
2006/06/01												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GEC2	e Pn	Z 01:30:53.5									
		e Sn	N 01:31:12.2									
	WET	e Pn	Z 01:30:56.1									
		e Sn	N 01:31:17.0									
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/06/01	05:17:30.2	15.002N	120.138E	33.0N	4.8			SZGRF				
	Luzon, Philippine Islands											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e P	Z 05:30:28.1	90.3	66.0	0.9	6	4.8				
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/06/01												
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
	GRA1	e PKPab	Z 05:35:18.1									
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/06/01	13:16:26.2	5.202S	151.744E	33.0N				NEIC				
	New Britain, Papua New Guinea, region											

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	13:35:16.4	122.4	52.4					
CLL	e PKPdf	Z	13:35:16.5	122.6	51.2					
WERD	e PKPdf	Z	13:35:18.7	123.5	50.9					
CLZ	e PKPdf	Z	13:35:18.6	123.5	48.2					
MOX	e PKPdf	Z	13:35:19.7	123.7	50.1					
GEC2	e PKPdf	Z	13:35:19.1	123.8	53.2					
MANZ	e PKPdf	Z	13:35:19.7	123.9	51.0					
WET	e PKPdf	Z	13:35:19.5	124.0	52.2					
UBBA	e PKPdf	Z	13:35:20.9	124.4	48.3					
GRA1	e PKPdf	Z	13:35:20.5	124.5	50.2					
STU	e PKPdf	Z	13:35:23.4	126.1	48.5					
BFO	e PKPdf	Z	13:35:24.5	126.8	47.9					
WLF	e PKPdf	Z	13:35:26.2	126.9	44.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/01	14:03:13.4	16.453S	173.366W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	14:22:46.8	145.6	8.5					
WERD	e PKPbc	Z	14:22:47.4	145.7	9.7					
MANZ	e PKPbc	Z	14:22:48.6	146.2	9.5					
TNS	e PKPbc	Z	14:22:49.2	146.2	3.1					
ROTZ	e PKPbc	Z	14:22:49.7	146.4	9.7					
GRA1	e PKPbc	Z	14:22:50.9	146.6	8.0					
WET	e PKPbc	Z	14:22:51.5	146.9	11.0					
GEC2	e PKPbc	Z	14:22:51.5	147.1	12.5					
BFO	e PKPbc	Z	14:22:54.5	148.1	3.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/01	18:54:25.3	10.252N	93.883E	33.0N	4.7			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:06:17.8	77.5	88.9	1.1	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/01	22:31:26.7	20.555S	173.321W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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RUE	e	PKPbc	Z	22:51:07.9	147.6	12.5
IBBN	e	PKPbc	Z	22:51:10.0	148.2	1.9
CLZ	e	PKPbc	Z	22:51:10.6	148.6	6.6
	e	PKPab	Z	22:51:13.8		
CLL	e	PKPbc	Z	22:51:11.2	148.9	11.5
	e	PKPab	Z	22:51:14.4		
GTTN	e	PKPbc	Z	22:51:11.6	148.9	6.0
	e	PKPab	Z	22:51:14.8		
BUG	e	PKPbc	Z	22:51:12.3	149.1	1.1
BRG	e	PKPbc	Z	22:51:12.0	149.1	13.3
	e	PKPab	Z	22:51:15.5		
UBBA	e	PKPbc	Z	22:51:13.1	149.6	6.2
	e	PKPab	Z	22:51:16.6		
MOX	e	PKPbc	Z	22:51:13.4	149.7	9.2
	e	PKPab	Z	22:51:17.6		
WERD	e	PKPbc	Z	22:51:13.9	149.8	10.5
	e	PKPab	Z	22:51:18.0		
MANZ	e	PKPbc	Z	22:51:15.0	150.3	10.3
	e	PKPab	Z	22:51:19.6		
TNS	e	PKPbc	Z	22:51:15.0	150.3	3.3
	e	PKPab	Z	22:51:21.0		
ROTZ	e	PKPbc	Z	22:51:15.4	150.5	10.5
GRA1	e	PKPbc	Z	22:51:16.2	150.6	8.7
	e	PKPab	Z	22:51:21.9		
WLF	e	PKPbc	Z	22:51:17.0	150.9	359.0
	e	PKPab	Z	22:51:23.1		
WET	e	PKPbc	Z	22:51:16.9	151.0	12.0
	e	PKPab	Z	22:51:23.5		
GEC2	e	PKPbc	Z	22:51:17.1	151.2	13.7
STU	e	PKPbc	Z	22:51:18.5	151.7	5.0
	e	PKPab	Z	22:51:25.7		
FUR	e	PKPbc	Z	22:51:19.5	152.1	9.2
BFO	e	PKPbc	Z	22:51:19.3	152.2	3.3
	e	PKPab	Z	22:51:28.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/02 00:33:57.0 19.421N 121.251E 33.0G 5.0  
 Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 00:46:27.5	84.8	64.6	0.7	25	5.6		
BRG	e P	Z 00:46:30.5	85.4	64.6	1.1	13	5.0		
CLL	e P	Z 00:46:31.4	85.7	63.9	1.2	21	5.1		
GEC2	e P	Z 00:46:35.6	86.4	64.3	1.1	11	4.9		
WERD	e P	Z 00:46:35.6	86.5	63.3	1.4	16	5.0		
WET	e P	Z 00:46:37.7	86.7	63.7	1.4	10	4.8		
MOX	e P	Z 00:46:37.5	86.8	62.8	1.2	10	4.8		

MANZ	e P	Z	00:46:38.0	86.8	63.2	1.2	8	4.7
ROTZ	e P	Z	00:46:38.3	86.8	63.2	1.1	15	5.0
CLZ	e P	Z	00:46:38.2	86.9	61.9	1.2	21	5.2
GRA1	e P	Z	00:46:41.5	87.4	62.5	1.5	17	5.2
UBBA	e P	Z	00:46:41.8	87.6	61.6	1.1	7	4.9
BUG	e P	Z	00:46:47.2	88.8	59.5	1.4	18	5.1
BFO	e P	Z	00:46:51.0	89.8	60.3	1.1	4	4.6
WLF	e P	Z	00:46:55.4	90.3	58.7	0.9	10	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/02	01:28:27.7	20.780S	173.410W	33.0G				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	01:48:08.7	147.8	12.7					
IBBN	e PKPbc	Z	01:48:10.4	148.5	2.1					
CLZ	e PKPbc	Z	01:48:11.5	148.8	6.8					
CLL	e PKPbc	Z	01:48:11.8	149.1	11.7					
GTTN	e PKPbc	Z	01:48:12.2	149.1	6.2					
BUG	e PKPbc	Z	01:48:12.5	149.3	1.2					
BRG	e PKPdf	Z	01:48:08.3	149.4	13.6					
	e PKPbc	Z	01:48:12.8							
UBBA	e PKPdf	Z	01:48:09.7	149.8	6.4					
	e PKPbc	Z	01:48:13.6							
	e PKPab	Z	01:48:18.0							
MOX	e PKPdf	Z	01:48:09.2	149.9	9.4					
	e PKPbc	Z	01:48:14.1							
WERD	e PKPdf	Z	01:48:10.0	150.0	10.7					
	e PKPbc	Z	01:48:14.5							
	e PKPab	Z	01:48:18.6							
MANZ	e PKPdf	Z	01:48:10.6	150.5	10.5					
	e PKPbc	Z	01:48:15.9							
TNS	e PKPbc	Z	01:48:15.8	150.5	3.5					
ROTZ	e PKPdf	Z	01:48:11.0	150.7	10.8					
	e PKPbc	Z	01:48:16.3							
GRA1	e PKPbc	Z	01:48:16.9	150.9	8.9					
WLF	e PKPdf	Z	01:48:12.1	151.1	359.2					
	e PKPbc	Z	01:48:17.7							
WET	e PKPdf	Z	01:48:11.8	151.2	12.3					
	e PKPbc	Z	01:48:17.5							
	e PKPab	Z	01:48:24.2							
GEC2	e PKPdf	Z	01:48:11.2	151.4	14.0					
	e PKPbc	Z	01:48:17.7							
STU	e PKPbc	Z	01:48:19.4	151.9	5.2					
	e PKPab	Z	01:48:26.6							
FUR	e PKPbc	Z	01:48:20.2	152.4	9.5					
	e PKPab	Z	01:48:29.6							

./2006/bul0606.txt

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BFO e PKPbc Z 01:48:19.8 152.4 3.5

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/02 02:30:57.7 35.880N 140.000E 33.0N 4.7  
Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:43:09.7	81.2	41.5	0.7	4	4.5		
CLL	e P	Z 02:43:09.6	81.2	40.9	0.8	10	5.0		
CLZ	e P	Z 02:43:13.7	81.9	39.1	1.2	6	4.6		
WERD	e P	Z 02:43:15.2	82.2	40.3	1.3	7	4.6		
MOX	e P	Z 02:43:15.9	82.3	39.9	1.3	8	4.8		
MANZ	e P	Z 02:43:17.8	82.6	40.2	1.2	8	4.8		
ROTZ	e P	Z 02:43:18.6	82.7	40.2	1.1	8	4.8		
GEC2	e P	Z 02:43:18.0	82.8	41.2	0.8	4	4.7		
UBBA	e P	Z 02:43:17.3	82.8	38.7	0.7	2	4.5		
WET	e P	Z 02:43:19.0	82.9	40.6	0.9	3	4.6		
GRA1	e P	Z 02:43:19.8	83.2	39.5	1.0	13	5.1		
TNS	e P	Z 02:43:24.0	83.9	37.6	0.7	3	4.7		
BFO	e P	Z 02:43:31.6	85.4	37.4	1.2	8	4.7		

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/02 03:26:41.8 20.850S 172.720W 30.0  
Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 03:46:25.7	148.5	0.9					
	e PKPab	Z 03:46:29.1							
CLZ	e PKPbc	Z 03:46:26.5	148.9	5.6					
CLL	e PKPbc	Z 03:46:26.6	149.2	10.5					
	e PKPab	Z 03:46:31.3							
BRG	e PKPbc	Z 03:46:27.9	149.5	12.3					
UBBA	e PKPbc	Z 03:46:28.9	150.0	5.1					
MOX	e PKPbc	Z 03:46:29.6	150.0	8.1					
WERD	e PKPbc	Z 03:46:29.2	150.1	9.5					
TANN	e PKPbc	Z 03:46:29.5	150.2	9.8					
TNS	e PKPbc	Z 03:46:31.7	150.6	2.2					
	e PKPab	Z 03:46:38.4							
MANZ	e PKPbc	Z 03:46:30.9	150.6	9.2					
ROTZ	e PKPbc	Z 03:46:31.4	150.8	9.5					
GRA1	e PKPbc	Z 03:46:31.6	151.0	7.6					
	e PKPab	Z 03:46:38.9							
WET	e PKPbc	Z 03:46:32.9	151.4	11.0					
GEC2	e PKPbc	Z 03:46:32.9	151.5	12.7					
	e PKPab	Z 03:46:41.9							

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FUR	e	PKPbc	Z	03:46:36.2	152.5	8.1
BFO	e	PKPbc	Z	03:46:35.9	152.5	2.1
	e	PKPab	Z	03:46:45.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/02	06:59:40.9	20.723S	173.933W	30.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e	PKPbc	Z	07:19:24.5	148.7	7.8			
CLL	e	PKPbc	Z	07:19:25.4	148.9	12.6			
GTTN	e	PKPbc	Z	07:19:26.1	149.0	7.1			
BRG	e	PKPbc	Z	07:19:26.0	149.2	14.5			
MOX	e	PKPbc	Z	07:19:27.7	149.8	10.3			
WERD	e	PKPbc	Z	07:19:28.2	149.9	11.7			
MANZ	e	PKPbc	Z	07:19:29.5	150.3	11.5			
TNS	e	PKPbc	Z	07:19:29.4	150.4	4.5			
ROTZ	e	PKPbc	Z	07:19:29.5	150.5	11.7			
GRA1	e	PKPbc	Z	07:19:30.2	150.7	9.9			
WLF	e	PKPbc	Z	07:19:31.3	151.1	0.2			
GEC2	e	PKPbc	Z	07:19:31.3	151.2	15.0			
BFO	e	PKPbc	Z	07:19:33.8	152.3	4.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/02	07:30: 0.1	20.500S	172.500W	33.0N				SZGRF

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	PKPbc	Z	07:49:40.9	147.7	11.0			
CLZ	e	PKPbc	Z	07:49:43.9	148.6	5.2			
CLL	e	PKPbc	Z	07:49:44.7	148.9	10.0			
GTTN	e	PKPbc	Z	07:49:44.9	148.9	4.5			
BRG	e	PKPbc	Z	07:49:45.4	149.2	11.8			
UBBA	e	PKPbc	Z	07:49:46.2	149.6	4.6			
MOX	e	PKPbc	Z	07:49:46.2	149.7	7.7			
WERD	e	PKPbc	Z	07:49:46.9	149.8	9.0			
TNS	e	PKPbc	Z	07:49:47.5	150.3	1.8			
MANZ	e	PKPbc	Z	07:49:48.6	150.3	8.7			
ROTZ	e	PKPbc	Z	07:49:49.0	150.5	9.0			
GRA1	e	PKPbc	Z	07:49:49.6	150.7	7.1			
WLF	e	PKPbc	Z	07:49:50.2	150.8	357.4			
WET	e	PKPbc	Z	07:49:50.3	151.0	10.4			
GEC2	e	PKPbc	Z	07:49:50.4	151.2	12.1			
BFO	e	PKPbc	Z	07:49:52.2	152.2	1.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/02	07:31:36.3	20.700S	176.820W	598.5				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPdf	Z	07:50:12.2	148.2	8.1					
	e PKPbc	Z	07:50:16.5							
	e PKPab	Z	07:50:21.5							
CLZ	e PKPdf	Z	07:50:12.3	148.4	12.9					
	e PKPbc	Z	07:50:16.8							
	e PKPab	Z	07:50:21.7							
CLL	e PP	Z	07:53:47.8							
	e PKPdf	Z	07:50:12.7	148.4	17.8	1.8	122			
	i PKPbc	- Z	07:50:16.8			0.9	322			
	i PKPab	Z	07:50:21.9			0.8	224			
	e pPKPbc	Z	07:52:32.6							
	e SKPdf	Z	07:52:51.7							
	e sPKPbc	Z	07:53:28.8							
	e PKSdf	Z	07:53:47.9							
	e PP	Z	07:53:48.9							
	e sPP	Z	07:56:51.0							
	e SKKSac	Z	07:59:42.7							
	e PSKS	N	08:04:06.8							
	e PPS	N	08:06:59.8							
	e SS	E	08:12:12.3							
	e sSS	E	08:15:48.8							
	e SSS	E	08:17:47.0							
	e SSSS	E	08:22:08.6							
BRG	e PKPdf	Z	07:50:12.7	148.7	19.6					
	e PKPbc	Z	07:50:17.1							
	e PKPab	Z	07:50:22.7							
BUG	e PKPdf	Z	07:50:13.3	149.1	7.5					
	e PKPbc	Z	07:50:18.4							
MOX	e PKPdf	Z	07:50:13.4	149.3	15.6					
	e PKPbc	Z	07:50:18.9							
	e PKPab	Z	07:50:25.5							
TANN	e pPKPbc	Z	07:52:36.1							
	e PKPdf	Z	07:50:13.6	149.4	17.2					
	e PKPbc	Z	07:50:19.2							
UBBA	e PKPab	Z	07:50:25.8							
	e PKPdf	Z	07:50:14.2	149.4	12.6					
	e PKPbc	Z	07:50:18.9							
ROTZ	e PP	Z	07:53:53.4							
	e PKPdf	Z	07:50:14.6	150.1	17.1					
	e PKPbc	Z	07:50:20.7							
TNS	e PKPab	Z	07:50:29.1							
	e PKPdf	Z	07:50:14.9	150.2	9.9					

GRA1	e PKPbc	Z	07:50:21.3	150.3	15.3
	e PKPab	Z	07:50:29.2		
	e PKPdf	Z	07:50:15.5		
	e PKPbc	Z	07:50:21.3		
	e PKPab	Z	07:50:29.8		
WET	e pPKPbc	Z	07:52:36.8	150.5	18.7
	e		07:53:35.6		
	e PP	Z	07:53:58.0		
	e PKPdf	Z	07:50:15.3		
	e PKPbc	Z	07:50:21.6		
GEC2	e PKPab	Z	07:50:30.8	150.6	20.4
	e PKPdf	Z	07:50:15.4		
	e PKPbc	Z	07:50:21.7		
WLF	e PKPab	Z	07:50:30.6	150.9	5.7
	e PKPbc	Z	07:50:23.3		
	e PKPab	Z	07:50:33.2		
STU	e pPKPbc	Z	07:52:43.9	151.5	11.9
	e PKPdf	Z	07:50:17.2		
	e PKPbc	Z	07:50:24.3		
FUR	e PKPab	Z	07:50:34.7	151.8	16.2
	e PKPbc	Z	07:50:24.4		
	e PKPab	Z	07:50:35.9		
BFO	e PKPdf	Z	07:50:17.9	152.1	10.3
	e PKPab	Z	07:50:36.6		

Date 2006/06/02  
 Origin Time 11:12:53.2  
 Lat 19.900S  
 Long 174.000W  
 Depth 38.0N  
 mb  
 Ms  
 ML  
 Source NEIC  
 Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 11:32:40.9	149.9	9.8					

Date 2006/06/02  
 Origin Time  
 Lat  
 Long  
 Depth  
 mb  
 Ms  
 ML  
 Source

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 16:29:12.0							
	e Sn	N 16:29:57.7							
TANN	e Pn	Z 16:29:24.4							
WET	e Pn	Z 16:29:10.0							
	e Sn	Z 16:30:11.6							

Date  
 Origin Time  
 Lat  
 Long  
 Depth  
 mb  
 Ms  
 ML  
 Source



2006/06/03 07:15:53.1 27.589N 53.978E 33.0N 4.7 4.4 SZGRF  
Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:23:03.8	37.5	109.6	1.1	10	4.5		
BRG	e P	Z 07:23:08.2	38.0	112.3	1.3	26	4.8		
WET	e P	Z 07:23:08.4	38.1	109.1	0.9	10	4.6		
ROTZ	e P	Z 07:23:14.2	38.7	109.2	0.9	15	4.6		
CLL	i P	Z 07:23:14.7	38.8	111.8	0.9	36	5.1		
	e PP	Z 07:25:01.5							
	e S	N 07:29:25.3							
	e SS	N 07:32:28.5							
	e LR	Z 07:35:49.9							
	e L	Z 07:42:12.3			18.0	596		4.5	
RUE	e P	Z 07:23:14.2	38.8	114.0					
FUR	e P	Z 07:23:14.7	38.8	106.4	0.9	28	4.9		
MANZ	e P	Z 07:23:15.3	38.8	109.3	1.0	9	4.3		
WERD	e P	Z 07:23:15.6	38.9	110.1	1.5	13	4.3		
GRA1	e P	Z 07:23:19.0	39.3	108.1	1.3	49	5.0		
	e L	Z 07:44:25.9			18.9	540		4.4	
MOX	e P	Z 07:23:19.2	39.3	109.6	1.1	9	4.3		
UBBA	e P	Z 07:23:27.8	40.4	108.2	1.4	16	4.6		
CLZ	e P	Z 07:23:29.1	40.5	109.7	0.8	30	5.1		
BFO	e P	Z 07:23:31.4	40.7	103.7	1.0	8	4.4		
TNS	e P	Z 07:23:34.5	41.1	106.0	1.6	66	5.1		
IBBN	e P	Z 07:23:42.7	42.1	107.5	1.1	35	5.0		
BUG	e P	Z 07:23:43.2	42.2	106.1	1.3	32	4.9		
WLF	e P	Z 07:23:44.6	42.4	103.2	0.9	20	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/03 07:37:33.7 27.823N 56.628E 33.0N 4.3 SZGRF  
Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:45:11.8	40.7	105.2	1.0	6	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/03 08:26: 4.2 16.820S 177.810W 367.5 SZGRF  
Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 08:44:55.6	144.2	9.1					
CLZ	e PKPbc	Z 08:44:55.9	144.4	13.5					
CLL	e PKPbc	Z 08:44:55.8	144.5	18.0					
BRG	e PKPbc	Z 08:44:56.7	144.7	19.7					

GTTN	e	PKPbc	Z	08:44:57.3	144.7	13.0
WERD	e	PKPbc	Z	08:44:59.0	145.4	17.2
UBBA	e	PKPbc	Z	08:44:59.1	145.4	13.3
MANZ	e	PKPbc	Z	08:45:01.3	145.9	17.1
ROTZ	e	PKPbc	Z	08:45:01.7	146.1	17.4
	e	pPKPbc	Z	08:46:31.3		
TNS	e	PKPbc	Z	08:45:01.1	146.2	10.8
GRA1	e	PKPbc	Z	08:45:02.7	146.3	15.7
	e	pPKPbc	Z	08:46:30.9		
WET	e	pPKPbc	Z	08:46:32.7	146.5	18.8
GEC2	e	PKPbc	Z	08:45:02.4	146.6	20.3
WLF	e	PKPbc	Z	08:45:04.2	147.0	7.0
BFO	e	PKPbc	Z	08:45:06.2	148.1	11.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/03	11:08:4.5	38.155N	41.554E	33.0N	4.3	3.3		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:13:20.9	24.5	106.5	1.1	7	4.3		
	e L	Z 11:24:46.7			21.7	100		3.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/03	13:01:19.4	14.370N	92.640E	33.0N	4.8			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:12:39.7	71.8	89.4	1.1	7	4.7		
RUE	e P	Z 13:12:40.3	71.9	89.8	0.9	14	5.1		
GEC2	e P	Z 13:12:40.3	72.0	88.6	1.0	6	4.7		
CLL	e P	Z 13:12:42.9	72.4	88.8					
WET	e P	Z 13:12:43.7	72.5	88.1	1.3	7	4.6		
ROTZ	e P	Z 13:12:46.7	72.9	87.8	1.3	8	4.7		
MANZ	e P	Z 13:12:47.2	73.0	87.8	0.9	6	4.7		
GRA1	e P	Z 13:12:50.4	73.6	87.0	0.6	6	4.8		
CLZ	e P	Z 13:12:52.4	74.0	87.0	0.7	5	4.7		
IBBN	e P	Z 13:13:01.7	75.6	85.1	0.7	6	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/03	13:26:53.3	21.499S	173.894W	35	4.9			NEIC

Tonga

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e	PKPdf	Z	13:46:38.4	151.6	10.0
CLL	e	PKPbc	Z	13:46:39.4	149.8	12.8
	e	PKPab	Z	13:46:43.3		
	e	pPKPbc	Z	13:46:51.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/03	14:40:33.7	39.206N	40.075E	33.0G	4.4	3.6		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 14:45:16.6	21.1	107.2	1.4	13	4.1		
WET	e P	Z 14:45:25.6	21.7	106.9	1.0	9	4.2		
ROTZ	e P	Z 14:45:31.5	22.3	107.6	1.1	26	4.6		
CLL	e P	Z 14:45:29.1	22.4	112.1	1.0	12	4.2		
MANZ	e P	Z 14:45:32.7	22.5	108.0	1.4	12	4.2		
FUR	e P	Z 14:45:31.4	22.5	102.7	0.7	13	4.6		
GRA1	e P	Z 14:45:35.3	22.9	106.2	1.3	64	5.0		
	e L	Z 15:00:40.4			19.1	193		3.6	
STU	e P	Z 14:45:46.4	24.0	101.9	1.2	21	4.5		
UBBA	e P	Z 14:45:47.5	24.0	107.2	1.4	10	4.1		
CLZ	e P	Z 14:45:47.4	24.1	109.9	1.0	18	4.6		
BFO	e P	Z 14:45:51.5	24.5	100.0	1.0	3	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/03	15:27:53.0	20.535S	174.062W	33.0N		4.9		SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z 15:47:33.4	147.5	13.8					
IBBN	e PKPbc	Z 15:47:35.4	148.2	3.2					
CLZ	e PKPbc	Z 15:47:36.2	148.5	8.0					
CLL	e PKPdf	Z 15:47:34.3	148.7	12.8					
	i PKPbc	+ Z 15:47:36.8			0.9	26			
	e PKPab	Z 15:47:39.6							
	e pPKPbc	Z 15:47:46.3							
	e sPKPbc	Z 15:47:51.1							
	e L	Z 16:52:16.9			19.8	179		4.9	
GTTN	e PKPbc	Z 15:47:36.4	148.8	7.3					
BRG	e PKPbc	Z 15:47:37.3	149.0	14.7					
UBBA	e PKPbc	Z 15:47:38.7	149.5	7.5					
MOX	e PKPbc	Z 15:47:38.8	149.6	10.5					
WERD	e PKPbc	Z 15:47:38.9	149.7	11.9					
MANZ	e PKPbc	Z 15:47:40.6	150.1	11.7					
TNS	e PKPbc	Z 15:47:40.5	150.2	4.7					
ROTZ	e PKPbc	Z 15:47:40.6	150.3	11.9					

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GRA1	e	PKPbc	Z	15:47:41.4	150.5	10.1						
	e	L	Z	16:52:51.7			18.3	161		4.9		
WET	e	PKPbc	Z	15:47:41.8	150.9	13.4						
WLF	e	PKPbc	Z	15:47:42.5	150.9	0.4						
GEC2	e	PKPbc	Z	15:47:42.2	151.0	15.1						
	e	PKPab	Z	15:47:50.8								
STU	e	PKPbc	Z	15:47:44.1	151.6	6.4						
BFO	e	PKPbc	Z	15:47:44.7	152.1	4.8						
	e	PKPab	Z	15:47:54.2								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 22:00:13.0							
	e Sn	E 22:00:31.3							
WET	e Pn	Z 22:00:15.6							
	e Sn	E 22:00:36.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/04	02:24:17.6	31.174N	99.609E	33.0N	5.1			SZGRF
Sichuan, China								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:34:59.8	65.8	69.7	1.6	19	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/04	03:50:57.1	34.337N	138.305E	33.0N	5.1			SZGRF
Near south coast of eastern Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:03:12.7	81.8	43.5	0.7	7	4.9		
CLL	e P	Z 04:03:13.0	81.8	42.9	0.9	17	5.2		
TANN	e P	Z 04:03:17.8	82.7	42.4					
MOX	e P	Z 04:03:18.8	82.9	41.9	1.3	12	5.0		
IBBN	e P	Z 04:03:20.2	83.2	39.2					
GEC2	e P	Z 04:03:20.4	83.3	43.2	0.7	6	5.0		
UBBA	e P	Z 04:03:21.3	83.5	40.7					
WET	e P	Z 04:03:21.5	83.5	42.6					
GRA1	e P	Z 04:03:23.5	83.8	41.5	0.9	14	5.2		
BUG	e P	Z 04:03:24.4	84.1	38.8					
TNS	e P	Z 04:03:27.4	84.6	39.5					
FUR	e P	Z 04:03:28.8	84.9	41.4					

STU	e P	Z	04:03:31.3	85.4	40.0
WLF	e P	Z	04:03:34.8	85.9	37.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/04	08:38:45.2	20.000S	173.670W	33.0N				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	08:58:26.5	147.7	2.5					
CLL	e PKPbc	Z	08:58:28.2	148.3	12.0	1.0	26			
	e PKPab	Z	08:58:30.4							
	e pPKPbc	Z	08:58:39.0							
	e PP	Z	09:01:58.6							
BRG	e PKPbc	Z	08:58:28.8	148.5	13.8					
BUG	e PKPbc	Z	08:58:28.6	148.6	1.7					
MOX	e PKPbc	Z	08:58:29.7	149.1	9.7					
TANN	e PKPbc	Z	08:58:30.7	149.2	11.3					
TNS	e PKPbc	Z	08:58:31.7	149.7	3.9					
GRA1	e PKPbc	Z	08:58:32.4	150.1	9.2					
	e PKPab	Z	08:58:38.3							
WLF	e PKPbc	Z	08:58:33.2	150.3	359.7					
WET	e PKPbc	Z	08:58:33.6	150.4	12.5					
GEC2	e PKPbc	Z	08:58:33.4	150.6	14.2					
	e PKPab	Z	08:58:40.3							
STU	e PKPbc	Z	08:58:35.1	151.1	5.6					
	e PKPab	Z	08:58:42.9							
FUR	e PKPbc	Z	08:58:35.8	151.6	9.8					
	e PKPab	Z	08:58:43.8							
BFO	e PKPbc	Z	08:58:36.1	151.6	4.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/04	15:10:10.2	44.667N	78.876E	33.0N	4.7			SZGRF
Eastern Kazakhstan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:18:03.3	42.7	72.0					
CLL	e P	Z	15:18:06.5	43.1	71.9					
GEC2	e P	Z	15:18:10.3	43.5	69.8					
TANN	e P	Z	15:18:12.0	43.7	70.7					
WET	e P	Z	15:18:13.6	43.9	69.6					
MOX	e P	Z	15:18:15.2	44.1	70.4					
GRA1	e P	Z	15:18:20.2	44.7	69.3	1.0	11	4.7		
BUG	e P	Z	15:18:33.6	46.4	68.7					
BFO	e P	Z	15:18:37.4	47.0	66.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05	04:23:31.6	38.030N	29.300E	33.0N	4.1			SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:27:13.7	15.6	128.1	1.1	17	4.1		
WET	e P	Z	04:27:20.7	16.2	127.1	1.1	20	4.2		
FUR	e P	Z	04:27:23.7	16.5	121.1	1.5	60	4.5		
BRG	e P	Z	04:27:27.5	16.8	133.9	1.1	11	3.9		
TANN	e P	Z	04:27:30.6	17.2	129.6					
GRA1	e P	Z	04:27:33.6	17.4	125.2	1.5	12	3.8		
CLL	e P	Z	04:27:35.5	17.5	132.8	1.3	17	4.0		
MOX	e P	Z	04:27:38.9	17.8	128.4	1.3	16	4.0		
STU	e P	Z	04:27:40.3	18.0	119.0					
BFO	e P	Z	04:27:45.6	18.3	116.4	1.2	18	4.1		
WLF	e P	Z	04:28:04.0	20.2	116.3					
BUG	e P	Z	04:28:07.4	20.5	122.3	1.4	22	4.3		
IBBN	e P	Z	04:28:09.9	20.7	125.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05	04:26:39.0	1.444N	96.310E	33.0N	4.7			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:39:15.1	85.7	92.8	0.8	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05	06:18:42.7	0.089N	27.678W	33.0N	5.2			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:28:44.6	59.7	226.7	1.6	38	5.2		
CLL	i P	- Z	06:28:58.4	61.5	227.9	1.8	31	4.8		
	e PP	Z	06:31:04.6							
	e S	E	06:37:19.5							
	e ScS	E	06:38:55.7							
	e SS	N	06:41:16.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05	06:27: 7.3	0.627N	27.660W	33.0N	5.7	5.5		SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:37:05.5	59.2	226.9	1.6	124	5.7		
	e PPP	N 06:40:45.4							
	e S	N 06:45:11.9							
CLL	e L	Z 06:59:55.5			20.8	3649		5.5	
	e P	Z 06:37:21.4	61.0	228.1	1.9	104	5.3		
	e PP	Z 06:39:37.3							
	e PPP	Z 06:41:06.5							
	e S	N 06:45:45.2							
	e ScS	E 06:47:17.5							
	e SS	N 06:49:35.0							
	e SSSS	N 06:52:48.5							
	e LR	Z 06:55:28.3							
	e L	Z 07:00:27.3			22.0	3350		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05	06:34:26.5	0.134S	28.291W	33.0N	5.7			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:44:31.5	60.2	227.2	2.1	184	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 11:51:54.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/05	13:59:13.7	22.620S	179.490W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 14:19:00.1	149.7	23.3					
BRG	e PKPbc	Z 14:19:00.8	149.9	25.3					
	e PKPab	Z 14:19:06.0							
	e PKPbc	Z 14:19:02.5	150.7	21.3					
TANN	e PKPbc	Z 14:19:02.7	150.7	23.0					
UBBA	e PKPbc	Z 14:19:02.5	150.8	18.2					
GRA1	e PKPbc	Z 14:19:04.6	151.6	21.2					
TNS	e PKPbc	Z 14:19:05.0	151.7	15.6					
GEC2	e PKPbc	Z 14:19:05.2	151.8	26.4					

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WLF	e	PKPbc	Z	14:19:07.5	152.6	11.4
STU	e	PKPbc	Z	14:19:08.0	153.0	17.8
	e	PKPab	Z	14:19:18.8		
FUR	e	PKPbc	Z	14:19:08.3	153.1	22.4
	e	PKPab	Z	14:19:19.9		
BFO	e	PKPbc	Z	14:19:08.9	153.5	16.4
	e	PKPab	Z	14:19:21.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/06	01:39: 4.5	11.330N	45.400W	33.0N	4.7			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 01:48:47.1	57.0	246.3	1.0	8	4.7		
BFO	e P	Z 01:48:52.8	57.8	249.0	1.5	10	4.6		
BUG	e P	Z 01:48:56.2	58.4	246.3	1.5	14	4.8		
TNS	e P	Z 01:48:57.7	58.6	248.1	1.2	4	4.3		
IBBN	e P	Z 01:49:00.8	59.0	246.3	0.6	14	5.2		
FUR	e P	Z 01:49:05.1	59.6	251.7	1.3	21	5.0		
UBBA	e P	Z 01:49:05.9	59.7	249.1	1.5	5	4.3		
GRA1	e P	Z 01:49:08.1	60.1	250.9	1.2	6	4.5		
MOX	e P	Z 01:49:12.1	60.6	250.7	1.4	10	4.4		
WET	e P	Z 01:49:14.6	60.9	252.6	1.1	5	4.2		
TANN	e P	Z 01:49:14.6	61.1	251.6	1.6	13	4.5		
GEC2	e P	Z 01:49:16.5	61.4	253.5	1.6	11	4.4		
CLL	e P	Z 01:49:19.5	61.7	251.6	0.2	10	5.6		
BRG	e P	Z 01:49:22.5	62.1	252.6	1.2	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 03:11:35.9							
BRG	e PKP	Z 03:11:26.8							
CLL	e PKP	Z 03:11:26.1							
GEC2	e PKP	Z 03:11:32.6							
IBBN	e PKP	Z 03:11:26.4							
MOX	e PKP	Z 03:11:29.1							
TANN	e PKP	Z 03:11:28.3							
TNS	e PKP	Z 03:11:31.1							
UBBA	e PKP	Z 03:11:29.0							
WET	e PKP	Z 03:11:32.5							
WLF	e PKP	Z 03:11:34.1							



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/06	03:30:11.5	47.572N	153.439E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	03:41:51.9	75.5	26.4	0.6	23	5.5		
BRG	e P	Z	03:41:52.6	75.6	26.9	1.0	8	4.8		
IBBN	e P	Z	03:41:54.4	75.9	23.1	0.6	14	5.3		
GTTN	e P	Z	03:41:54.5	76.1	24.4	0.8	8	4.9		
WERD	e P	Z	03:41:56.8	76.4	25.8	0.9	5	4.7		
MOX	e P	Z	03:41:57.9	76.4	25.4	0.7	7	4.9		
UBBA	e P	Z	03:41:58.5	76.7	24.4	0.7	5	4.8		
MANZ	e P	Z	03:42:00.6	76.9	25.6	0.8	4	4.6		
GRA1	e P	Z	03:42:03.8	77.4	25.1	0.7	25	5.4		
WET	e P	Z	03:42:03.6	77.4	26.0	1.1	11	4.9		
GEC2	e P	Z	03:42:03.6	77.5	26.5	0.6	4	4.7		
TNS	e P	Z	03:42:04.9	77.7	23.3	0.7	13	5.2		
WLF	e P	Z	03:42:11.7	78.7	21.8	1.0	6	4.6		
STU	e P	Z	03:42:12.6	78.8	23.7	0.7	11	5.0		
BFO	e P	Z	03:42:14.4	79.4	23.1	0.9	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/06	04:34:12.1	16.550N	91.949W	199.8	4.8			SZGRF

Mexico-Guatemala border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	04:46:31.5	82.5	286.8	0.9	9	5.0		
	e pP	Z	04:47:20.8							
TNS	e P	Z	04:46:38.5	83.8	288.5	1.0	19	5.3		
	e pP	Z	04:47:27.3							
GTTN	e P	Z	04:46:41.3	84.3	289.5	1.1	18	5.2		
	e pP	Z	04:47:30.2							
BFO	e P	Z	04:46:40.1	84.3	288.6	1.1	8	4.8		
	e pP	Z	04:47:28.3							
UBBA	e P	Z	04:46:43.6	84.5	289.6	1.6	9	4.8		
	e pP	Z	04:47:31.2							
MOX	e P	Z	04:46:47.2	85.5	290.8	1.3	10	4.8		
	e pP	Z	04:47:35.8							
GRA1	e P	Z	04:46:47.3	85.6	290.6	0.8	9	5.0		
	e pP	Z	04:47:36.7							
	e sP	Z	04:47:55.7							
WERD	e pP	Z	04:47:38.0	86.0	291.4					
MANZ	e P	Z	04:46:50.9	86.1	291.2	0.9	3	4.5		
	e pP	Z	04:47:39.2							
CLL	e P	Z	04:46:51.1	86.1	291.8					
	e pP	Z	04:47:39.6							

	e sP	Z	04:47:59.2								
	e PP	Z	04:50:16.4								
	e S	E	04:57:09.6								
	e SP	Z	04:58:15.3								
	e sS	E	04:58:30.0								
	e SS	E	05:03:06.5								
	e sSS	E	05:04:25.7								
	e L	Z	05:33:07.7			18.2	100		4.3		
BRG	e P	Z	04:46:53.3	86.8	292.6	0.9	3	4.4			
	e pP	Z	04:47:42.1								
WET	e P	Z	04:46:55.2	86.8	291.9	1.3	9	4.7			
	e pP	Z	04:47:42.2								
GEC2	e P	Z	04:46:56.2	87.5	292.5	1.3	6	4.7			
	e pP	Z	04:47:44.7								

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/06 17:02:51.3 34.193N 47.115E 14.3 4.8 3.8  
 Western Iran SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 17:08:47.4	28.7	108.2	1.1	20	4.9		
BRG	e P	Z 17:08:51.7	29.2	112.0	1.1	10	4.6		
WET	e P	Z 17:08:52.4	29.3	107.8	1.2	28	5.0		
CLL	e P	Z 17:08:58.0	29.9	111.6	1.0	13	4.7		
MANZ	e P	Z 17:09:00.9	30.0	108.4	0.9	10	4.6		
WERD	e P	Z 17:09:02.5	30.0	109.3	1.6	11	4.4		
GRA1	e P	Z 17:09:03.7	30.5	106.9	1.0	50	5.4		
	e pP	Z 17:09:07.4							
	e L	Z 17:22:23.4			21.3	219		3.8	
MOX	e P	Z 17:09:05.2	30.5	108.9	0.8	5	4.5		
UBBA	e P	Z 17:09:14.6	31.5	107.4	0.6	4	4.5		
BFO	e P	Z 17:09:17.5	32.0	101.8	1.0	8	4.6		
TNS	e P	Z 17:09:19.8	32.3	104.8	1.0	34	5.2		
IBBN	e P	Z 17:09:29.4	33.3	107.2	1.3	53	5.3		
BUG	e P	Z 17:09:29.7	33.4	105.4	0.9	12	4.9		
WLF	e P	Z 17:09:31.2	33.6	101.7	1.0	29	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/06 23:01:53.7 1.163N 97.124E 30G 4.7  
 Nias region, Indonesia NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:14:32.9	86.5	92.4	0.8	2	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/07	02:26:10.1	7.567S	71.190W	188.6	5.1			SZGRF

Western Brazil

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 02:38:37.0	87.7	255.5	1.0	38	5.5		
BFO	e P	Z 02:38:41.5	88.8	257.2	0.9	5	4.8		
BUG	e P	Z 02:38:42.1	88.8	256.3	1.2	44	5.7		
TNS	e P	Z 02:38:44.4	89.3	257.2	0.9	14	5.3		
IBBN	e P	Z 02:38:44.2	89.3	256.7	0.8	32	5.6		
STU	e P	Z 02:38:44.8	89.4	257.8	1.1	21	5.3		
UBBA	e P	Z 02:38:49.2	90.4	258.4	1.5	11	4.9		
FUR	e P	Z 02:38:50.8	90.7	259.4					
GRA1	e P	Z 02:38:52.3	90.9	259.3	1.5	21	5.2		
	e pP	Z 02:39:39.1							
MOX	e P	Z 02:38:53.8	91.3	259.7	1.5	12	5.0		
MANZ	e P	Z 02:38:55.3	91.5	260.0	1.3	13	5.1		
WERD	e P	Z 02:38:55.8	91.7	260.2	1.4	12	5.0		
TANN	e P	Z 02:38:56.2	91.8	260.3					
WET	e P	Z 02:38:56.7	91.9	260.6	1.5	12	5.0		
CLL	e P	Z 02:38:58.4	92.3	260.8	1.0	8	5.0		
GEC2	e P	Z 02:38:58.4	92.4	261.2	1.2	5	4.7		
BRG	e P	Z 02:39:00.6	92.8	261.5	1.2	11	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:03:31.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/07	09:28: 3.3	19.500S	173.500W	15.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 09:47:47.8	147.8	11.6					
BUG	e PKPbc	Z 09:47:49.0	148.1	1.4					
BRG	e PKPbc	Z 09:47:48.8	148.1	13.4					
UBBA	e PKPbc	Z 09:47:49.5	148.6	6.3					
MOX	e PKPbc	Z 09:47:50.2	148.6	9.3					
WERD	e PKPbc	Z 09:47:50.6	148.7	10.6					
MANZ	e PKPbc	Z 09:47:52.1	149.2	10.4					
TNS	e PKPbc	Z 09:47:52.3	149.2	3.6					
GRA1	e PKPbc	Z 09:47:53.1	149.6	8.8					

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WET	e	PKPbc	Z	09:47:54.0	149.9	12.1
GEC2	e	PKPbc	Z	09:47:54.0	150.1	13.7
BFO	e	PKPbc	Z	09:47:56.3	151.1	3.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/07	10:46:51.9	22.150S	169.460E	30.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z 11:06:26.9	145.5	42.7				
CLL	e	PKPbc	Z 11:06:26.7	145.6	40.9				
WERD	e	PKPbc	Z 11:06:30.1	146.5	40.7				
MOX	e	PKPbc	Z 11:06:30.4	146.7	39.5				
IBBN	e	PKPbc	Z 11:06:30.4	146.7	32.0				
MANZ	e	PKPbc	Z 11:06:31.7	147.0	40.9				
GEC2	e	PKPbc	Z 11:06:31.7	147.1	44.4				
UBBA	e	PKPbc	Z 11:06:31.3	147.2	36.8				
WET	e	PKPbc	Z 11:06:31.8	147.3	42.9				
GRA1	e	PKP	Z 11:06:32.8	147.6	39.8				
BUG	e	PKPbc	Z 11:06:33.2	147.6	31.9				
TNS	e	PKPbc	Z 11:06:35.0	148.2	34.9				
WLF	e	PKPbc	Z 11:06:38.5	149.5	31.6				
BFO	e	PKPbc	Z 11:06:38.6	149.8	36.6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/08	06:17:28.9	20.935S	34.361E	33.0N	4.7			SZGRF

Mozambique

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 06:28:59.0	73.6	157.5	1.2	8	4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/08	11:34:57.9	40.381N	78.105E	5.6	5.1	4.3		SZGRF

Southern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 11:43:26.5	46.6	74.7	1.0	16	5.1	
	e	pP	Z 11:43:28.1						
	e	L	Z 12:03:50.9			19.6	314	4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/06/08 14:59:32.6  
Fiji Islands region

21.610S 178.180W 553.4

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	15:18:18.1	149.0	10.8					
	e PKPab	Z	15:18:22.5							
CLL	e PKPdf	Z	15:18:14.1	149.1	20.5					
	e PKPbc	Z	15:18:18.4							
BRG	e PKPdf	Z	15:18:14.6	149.2	22.4					
	e PKPbc	Z	15:18:18.8							
	e PKPab	Z	15:18:23.8							
GTTN	e PKPdf	Z	15:18:15.4	149.4	15.0					
	e PKPbc	Z	15:18:19.5							
BUG	e PKPbc	Z	15:18:20.3	149.9	10.1					
MOX	e PKPdf	Z	15:18:15.6	150.0	18.4					
	e PKPbc	Z	15:18:20.7							
	e PKPab	Z	15:18:26.6							
WERD	e PKPdf	Z	15:18:15.8	150.0	19.8					
	e PKPbc	Z	15:18:20.6							
	e PKPab	Z	15:18:26.9							
	e pPKPbc	Z	15:20:29.0							
UBBA	e PKPdf	Z	15:18:16.0	150.1	15.4					
	e PKPbc	Z	15:18:20.7							
MANZ	e PKPdf	Z	15:18:16.9	150.5	19.7					
	e PKPbc	Z	15:18:22.1							
	e PKPab	Z	15:18:29.1							
TNS	e PKPdf	Z	15:18:17.5	150.9	12.8					
	e PKPbc	Z	15:18:22.9							
	e PKPab	Z	15:18:30.3							
GRA1	e PKPdf	Z	15:18:17.8	150.9	18.2					
	e PKP	Z	15:18:23.1							
	e PKPab	Z	15:18:30.9							
WET	e PKPdf	Z	15:18:17.8	151.1	21.7					
	e PKPbc	Z	15:18:23.4							
	e PKPab	Z	15:18:31.9							
	e pPKPbc	Z	15:20:29.7							
GEC2	e PKPdf	Z	15:18:17.9	151.2	23.4					
	e PKPbc	Z	15:18:23.6							
	e PKPab	Z	15:18:32.2							
	e pPKPbc	Z	15:20:31.9							
WLF	e PKPdf	Z	15:18:19.4	151.7	8.5					
	e PKPbc	Z	15:18:25.2							
	e PKPab	Z	15:18:34.5							
STU	e PKPdf	Z	15:18:19.6	152.2	14.8					
	e PKPab	Z	15:18:36.2							
FUR	e PKPab	Z	15:18:37.1	152.4	19.2					
BFO	e PKPdf	Z	15:18:20.1	152.8	13.3					
	e PKPbc	Z	15:18:26.7							
	e PKPab	Z	15:18:38.1							

e pPKPbc Z 15:20:36.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/06/08												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e P	Z 16:40:23.1								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/06/08	23:00:25.4	39.764N	55.295E	33.0N	4.6			SZGRF				
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		BRG	e P	Z 23:06:37.4	30.6	95.0						
		WET	e P	Z 23:06:41.6	31.2	91.2						
		CLL	e P	Z 23:06:43.2	31.3	94.9						
		TANN	e P	Z 23:06:45.4	31.6	92.9						
		WERD	e P	Z 23:06:46.0	31.7	92.9						
		MOX	e P	Z 23:06:50.1	32.1	92.6						
		GRA1	e P	Z 23:06:51.8	32.3	90.8	1.1	9	4.6			
		STU	e P	Z 23:07:03.4	33.7	87.9						
		TNS	e P	Z 23:07:08.4	34.1	89.5						
		BFO	e P	Z 23:07:09.1	34.3	86.6						
		IBBN	e P	Z 23:07:13.4	34.6	92.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/06/09	05:58:28.5	17.100S	178.900W	585.9				GSRC				
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		CLL	e PKPbc	Z 06:17:01.7	144.6	19.9	0.7	101				
			e PKiKP	Z 06:17:05.4								
			e pPKPbc	Z 06:19:16.2								
			e SKPbc	Z 06:19:49.4								
		GRA1	e PKPbc	Z 06:17:04.3	146.4	17.7						
			e pPKPbc	Z 06:19:20.2								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/09	10:40:43.7	17.311S	177.525W	33.0G				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	10:59:12.1	143.7	18.4					
IBBN	e PKPbc	Z	10:59:15.4	144.8	8.8					
CLL	e PKPbc	Z	10:59:15.9	145.0	17.7					
BRG	e PKPbc	Z	10:59:16.0	145.2	19.4					
GTTN	e PKPbc	Z	10:59:17.0	145.3	12.6					
BUG	e PKPbc	Z	10:59:17.7	145.7	8.1					
MOX	e PKPbc	Z	10:59:18.3	145.9	15.7					
	e PKPab	Z	10:59:21.0							
WERD	e PKPbc	Z	10:59:18.7	145.9	16.9					
UBBA	e PKPbc	Z	10:59:18.4	146.0	12.9					
MANZ	e PKPbc	Z	10:59:20.1	146.4	16.8					
TNS	e PKPbc	Z	10:59:20.7	146.7	10.4					
	e PKPab	Z	10:59:24.7							
GRA1	e PKPbc	Z	10:59:21.6	146.9	15.4					
	e PKPab	Z	10:59:25.3							
WET	e PKPbc	Z	10:59:21.8	147.1	18.5					
	e PKPab	Z	10:59:25.8							
GEC2	e PKPbc	Z	10:59:21.7	147.2	20.1					
	e PKPab	Z	10:59:26.1							
WLF	e PKPbc	Z	10:59:23.4	147.5	6.5					
	e PKPab	Z	10:59:28.3							
STU	e PKPbc	Z	10:59:24.7	148.1	12.2					
	e PKPab	Z	10:59:29.9							
FUR	e PKPbc	Z	10:59:25.0	148.3	16.1					
	e PKPab	Z	10:59:31.1							
BFO	e PKPbc	Z	10:59:25.4	148.6	10.8					
	e PKPab	Z	10:59:32.2							

Date	Origin	Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/06/09

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z	13:58:58.4							
BRG	e PKP	Z	13:58:55.2							
CLL	e PKP	Z	13:58:56.0							
FBE	e PKP	Z	13:58:56.9							
GEC2	e PKP	Z	13:59:00.8							
MANZ	e PKP	Z	13:59:01.1							
MOX	e PKP	Z	13:58:58.5							
TANN	e PKP	Z	13:58:58.9							
WERD	e PKP	Z	13:58:58.9							
WERN	e PKP	Z	13:58:59.5							
WLF	e PKP	Z	13:58:58.8							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/09	16:01:40.1	15.861S	172.957W	45.0N				SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z 16:21:10.8	145.0	7.7					
TNS	e PKPbc	Z 16:21:13.9	145.6	2.4					
GRA1	e PKP	Z 16:21:15.9	146.0	7.2					
WLF	e PKPbc	Z 16:21:16.2	146.2	358.5					
WET	e PKPbc	Z 16:21:16.4	146.4	10.2					
GEC2	e PKPbc	Z 16:21:16.9	146.6	11.7					
BFO	e PKPbc	Z 16:21:19.3	147.5	2.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/09	18:01:42.7	38.472N	42.005E	33.0N	4.3	3.3		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 18:06:49.1	23.3	111.3					
WET	e P	Z 18:06:47.3	23.4	106.1					
MANZ	e P	Z 18:06:57.7	24.1	107.1					
GRA1	e P	Z 18:06:59.9	24.6	105.4	0.9	6	4.3		
	e L	Z 18:18:36.6			20.0	91		3.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/09	21:36:40.5	43.207N	18.128E	10.0G			3.8	SZGRF

Northwestern Balkan Peninsula

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 21:38:14.1	6.4	149.8					3.6
	e Sn	E 21:39:25.0							
WET	e Pn	Z 21:38:22.3	7.0	146.6					3.7
MANZ	e Pn	Z 21:38:34.6	7.9	146.4					3.7
GRA1	e Pn	Z 21:38:36.0	8.0	141.2					4.0
TANN	e Pn	Z 21:38:38.1	8.2	149.6					3.8
	e Sn	N 21:40:07.1							
WERD	e Pn	Z 21:38:39.0	8.3	149.0					3.8
MOX	e Pn	Z 21:38:45.0	8.7	146.7					3.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/09	23:17:34.1	46.150S	33.130E	23.8	5.8	5.5		SZGRF

Prince Edward Islands, South Africa, region



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 23:30:59.6	96.2	165.0					
	e PP	Z 23:34:50.5							
WET	e P	Z 23:31:02.2	96.9	166.0	1.7	36	5.7		
	e PP	Z 23:34:56.4							
BFO	e PP	Z 23:34:56.3	96.9	163.0					
STU	e P	Z 23:31:03.5	97.2	163.5					
	e PP	Z 23:34:58.3							
GRA1	e P	Z 23:31:05.2	97.7	164.9	1.8	57	5.9		
	e pP	Z 23:31:12.1							
	e PP	Z 23:35:02.2							
	e SKSac	N 23:41:49.4							
	e SP	N 23:44:03.0							
	e SS	N 23:49:12.2							
	e L	Z 00:15:14.0			19.9	1535		5.5	
MANZ	e P	Z 23:31:06.7	97.8	165.5	1.5	22	5.6		
	e PP	Z 23:35:03.5							
WERD	e P	Z 23:31:08.7	98.3	165.6	1.7	45	5.9		
	e PP	Z 23:35:06.8							
BRG	e P	Z 23:31:09.2	98.4	166.7					
	e PP	Z 23:35:07.4							
MOX	e P	Z 23:31:09.5	98.6	165.1	2.2	49	5.9		
	e PP	Z 23:35:08.8							
WLF	e PP	Z 23:35:09.8	98.6	161.5					
TNS	e P	Z 23:31:10.0	98.7	163.0	2.1	40	5.8		
	e PP	Z 23:35:09.7							
CLL	e Pdiff	Z 23:31:12.1	99.0	166.0	2.8	122			
	e PP	Z 23:35:13.3							
	e PPPP	Z 23:39:06.3							
	e SKSac	N 23:41:52.6							
	e SKKSac	N 23:42:27.7							
	e PS	N 23:44:18.1							
	e PPS	Z 23:44:57.3							
	e SS	N 23:49:37.6							
	e LR	Z 00:04:42.9							
	e L	Z 00:19:52.4			18.0	3159		5.9	
UBBA	e P	Z 23:31:11.6	99.0	164.0	1.5	12	5.4		
	e PP	Z 23:35:12.0							
GTTN	e PP	Z 23:35:17.4	99.7	163.9					
RUE	e PP	Z 23:35:20.8	100.0	166.5					
BUG	e PP	Z 23:35:20.5	100.1	162.1					
IBBN	e PP	Z 23:35:26.2	100.8	162.4					

Date  
2006/06/10

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta

Phase

Time

Dist

BAz

T[s]

A[nm]

mb

MS

ML

GRA1 e PKP Z 03:53:18.5

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/10 06:18:46.8 43.257N 6.914W 10.0G 2.9 SZGRF  
 Spain

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pn	Z 06:21:23.5	11.0	239.4					
	e Sn	E 06:23:20.6							
	e L	Z 06:26:06.8			18.8	228		3.1	
BFO	e Pn	Z 06:21:32.7	11.7	250.1					
	e Sn	N 06:23:38.1							
	e L	Z 06:26:09.5			21.1	107		2.8	
BUG	e Pn	Z 06:21:44.7	12.6	235.0					
	e Sn	N 06:23:57.8							
TNS	e Pn	Z 06:21:43.5	12.6	242.3					
	e Sn	N 06:24:00.4							
	e L	Z 06:27:01.9			19.6	150		3.0	
FUR	e L	Z 06:27:26.8	13.6	255.6	21.0	95		2.8	
GRA1	e L	Z 06:27:38.7	14.0	249.6	19.6	92		2.9	
MOX	e Pn	Z 06:22:11.2	14.6	246.8					
	e L	Z 06:27:34.6			20.2	77		2.8	
GEC2	e Pn	Z 06:22:21.8	15.3	256.4					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/10 13:17:26.1 23.684S 179.814E 540 4.7 NEIC  
 South of the Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 13:36:17.5	150.7	27.2					
CLL	e PKPbc	Z 13:36:17.1	150.6	25.2	0.8	32			
	e PKPab	Z 13:36:26.0							
	e pPKPbc	Z 13:38:22.8							
	e pPKPab	Z 13:38:27.7							
IBBN	e PKP	Z 13:36:17.1	150.8	15.0					
STU	e PKP	Z 13:36:15.4	153.9	19.8					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/10 16:28:55.1 19.795S 177.539W 33.0N SZGRF  
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 16:48:34.2	147.2	9.2					

CLL	e	PKPbc	Z	16:48:34.6	147.4	18.6
BRG	e	PKPbc	Z	16:48:35.7	147.6	20.5
MOX	e	PKPbc	Z	16:48:37.4	148.3	16.6
TANN	e	PKPbc	Z	16:48:37.6	148.4	18.2
TNS	e	PKPbc	Z	16:48:40.1	149.2	11.0
GRA1	e	PKPbc	Z	16:48:40.2	149.3	16.3
WET	e	PKPbc	Z	16:48:40.2	149.5	19.6
GEC2	e	PKPbc	Z	16:48:40.5	149.6	21.2
WLF	e	PKPbc	Z	16:48:42.3	150.0	7.0
FUR	e	PKPbc	Z	16:48:43.6	150.8	17.2
BFO	e	PKPbc	Z	16:48:44.2	151.1	11.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/10	19:52: 6.5	18.414N	121.390E	33.7	5.0			SZGRF
Luzon, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	Z 20:04:46.5	86.8	64.5	0.7	12	5.1		
	e pP	Z 20:04:56.0							
	e sP	Z 20:05:01.7							
	e S	E 20:15:15.7							
	e PS	Z 20:16:12.8							
	e SS	E 20:20:55.7							
	e SSS	N 20:24:22.8							
	e LR	Z 20:33:00.3							
	e L	Z 20:47:10.0			18.0	466		4.9	
GRA1	e P	Z 20:04:55.0	88.3	63.0	1.5	17	5.0		
	e pP	Z 20:05:04.1							
	e sP	Z 20:05:09.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/10	20:25:14.0	5.800S	29.430E	33.0N	4.9			SZGRF
Lake Tanganyika region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:35:01.7	57.7	158.4	0.8	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/10	22:31: 1.9	46.312N	152.661E	33.0N	5.0			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:42:59.3	78.3	26.1	1.2	18	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/10	23:37:39.3	1.019N	96.002E	33.0N	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:50:16.0	85.8	93.3	0.8	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/11	00:24:25.8	12.780N	58.580W	33.0N	4.9			SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z 00:35:03.6	65.1	258.9	0.7	5	4.8		
BFO	e P	Z 00:35:03.3	65.2	261.2	1.6	13	4.9		
IBBN	e P	Z 00:35:06.6	65.5	258.9	1.1	18	5.2		
TNS	e P	Z 00:35:07.0	65.6	260.5	0.9	10	5.0		
STU	e P	Z 00:35:08.1	65.8	261.7	0.6	8	5.1		
UBBA	e P	Z 00:35:13.4	66.6	261.5	0.8	4	4.7		
CLZ	e P	Z 00:35:15.3	67.0	261.3	1.0	8	4.9		
GRA1	e P	Z 00:35:17.9	67.3	262.9	0.8	5	4.8		
BSEG	e P	Z 00:35:17.6	67.3	260.4	1.0	13	5.1		
MANZ	e P	Z 00:35:21.6	67.9	263.5	1.1	8	4.8		
WET	e P	Z 00:35:23.8	68.3	264.4	0.9	4	4.6		
CLL	e P	Z 00:35:25.5	68.6	263.7	1.0	8	4.9		
GEC2	e P	Z 00:35:27.4	68.8	265.2	1.0	7	4.9		
BRG	e P	Z 00:35:29.2	69.1	264.6	1.0	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/11	05:46: 3.2	20.220S	176.640W	689.0				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 06:04:28.3	145.9	11.7					
	e pPKPbc	Z 06:07:05.8							
IBBN	e PKPdf	Z 06:04:29.5	147.7	7.7					
	e PKPbc	Z 06:04:33.4							
CLZ	e PKPdf	Z 06:04:29.9	147.9	12.5					
	e PKPbc	Z 06:04:34.2							
CLL	e PKPdf	Z 06:04:29.6	148.0	17.3					
	i PKPbc	Z 06:04:33.2			1.0	160			
	e pPKPbc	Z 06:07:01.7							
	e SKPbc	Z 06:07:09.0							



BSEG	e P	Z	20:13:16.7	79.4	46.0	1.0	404	6.3
BRG	e P	Z	20:13:18.9	79.8	48.1	1.1	122	5.7
CLL	e P	Z	20:13:19.5	80.0	47.5	1.0	504	6.4
	e pP	Z	20:13:57.0					
	e sP	Z	20:14:11.4					
	e PP	Z	20:16:25.1					
	e sPP	Z	20:17:11.1					
	e sPPP	Z	20:19:01.9					
	e sPPPP	Z	20:20:22.6					
	e S	N	20:23:12.1					
	e SP	Z	20:23:59.3					
	e sS	E	20:24:13.4					
	e SS	E	20:28:28.4					
	e sSS	E	20:29:26.1					
	e PKKPbc	Z	20:32:05.5					
	e SSSS	Z	20:34:37.2					
	e LR	Z	20:40:01.4					
	e SKPPKPbc	Z	20:43:20.4					
	e L	Z	20:49:02.9			20.0	5303	5.9
CLZ	e P	Z	20:13:24.6	80.8	45.7	1.0	759	6.7
TANN	e P	Z	20:13:24.4	80.8	47.0	1.2	220	6.0
MOX	i P	Z	20:13:25.6	81.1	46.5	1.1	191	6.0
GEC2	e P	Z	20:13:26.6	81.3	47.7	1.0	132	6.0
WET	e P	Z	20:13:27.9	81.5	47.2	1.3	154	6.0
IBBN	e P	Z	20:13:28.2	81.6	43.9	0.9	475	6.6
UBBA	e P	Z	20:13:28.8	81.7	45.4	1.2	171	6.1
GRA1	e P	Z	20:13:30.6	81.9	46.1	1.2	782	6.7
	e pP	Z	20:14:06.1					
	e sP	Z	20:14:19.6					
	e PP	Z	20:16:38.7					
	e pPP	Z	20:17:09.9					
	e sPP	Z	20:17:27.0					
	e S	N	20:23:33.0					
	e pS	Z	20:24:17.9					
	e sS	Z	20:24:34.9					
	e SS	N	20:29:02.5					
BUG	e P	Z	20:13:32.6	82.4	43.5	1.0	362	6.5
TNS	e P	Z	20:13:34.8	82.8	44.2	1.0	309	6.5
FUR	e P	Z	20:13:35.7	83.0	46.0	1.1	702	6.8
STU	e P	Z	20:13:38.2	83.5	44.6	1.0	498	6.7
BFO	e P	Z	20:13:41.7	84.2	44.0	1.3	652	6.7

Date  
2006/06/12

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta  
BSEG

Phase  
e Pn

Time  
Z 02:06:21.4

Dist

BAz

T[s]

A[nm]

mb

MS

ML

GRA1	e Pn	Z	02:05:38.1
MOX	e Pn	Z	02:05:44.3
TNS	e Pn	Z	02:05:55.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/12	21:27:53.6	15.835S	172.609W	33.0N				SZGRF

Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e PKPbc	Z	21:47:27.8	145.6	1.8					
ROTZ	e PKPbc	Z	21:47:28.8	145.8	8.3					
GRA1	e PKPbc	Z	21:47:29.5	146.0	6.6					
WLF	e PKPbc	Z	21:47:29.9	146.2	357.9					
WET	e PKPbc	Z	21:47:30.1	146.4	9.6					
GEC2	e PKPbc	Z	21:47:30.7	146.6	11.1					
BFO	e PKPbc	Z	21:47:33.8	147.5	1.7					
FUR	e PKPbc	Z	21:47:34.0	147.5	7.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/13	02:40:36.0	43.496N	144.371E	91.3	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:52:07.7	75.0	32.7	2.6	106	5.4		
NRDL	e P	Z	02:52:14.4	76.2	32.3	1.0	6	4.7		
CLL	e P	Z	02:52:14.7	76.3	34.1	1.0	18	5.2		
BRG	e P	Z	02:52:14.8	76.3	34.6	1.1	8	4.8		
FBE	e P	Z	02:52:16.0	76.5	34.3	0.8	8	4.9		
CLZ	e P	Z	02:52:17.8	76.7	32.4	1.0	14	5.0		
WERD	e P	Z	02:52:20.1	77.2	33.5	1.0	5	4.6		
MOX	e P	Z	02:52:20.3	77.3	33.1	1.2	10	4.8		
WERN	e P	Z	02:52:21.1	77.3	33.5	0.7	3	4.6		
MANZ	e P	Z	02:52:22.9	77.7	33.3	0.9	4	4.6		
ROTZ	e P	Z	02:52:23.9	77.8	33.4	0.9	7	4.8		
GEC2	e P	Z	02:52:24.6	78.0	34.2	0.7	3	4.6		
WET	e P	Z	02:52:25.2	78.1	33.7	1.0	10	4.9		
GRA1	e P	Z	02:52:26.1	78.2	32.7	0.9	16	5.0		
	e pP	Z	02:52:49.4							
	e sP	Z	02:52:58.7							
TNS	e P	Z	02:52:28.3	78.7	31.0	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/13	04:34:20.0	38.964N	15.230E	287.0G	3.9			INGV

Sicily, Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	04:36:44.0	10.3	169.7					
BFO	e P	Z	04:36:47.0	10.6	149.5					
GRA1	e P	Z	04:36:54.8	11.1	163.6	0.9	18	4.2		
MANZ	e P	Z	04:36:56.8	11.2	167.5	0.8	5	3.7		
WERN	e P	Z	04:36:59.2	11.5	168.8	0.7	8	3.9		
TANN	e P	Z	04:37:01.1	11.6	169.3	1.0	7	3.8		
WERD	e P	Z	04:37:01.6	11.7	168.7	0.7	7	3.9		
BRG	e P	Z	04:37:04.8	11.9	175.2	0.9	12	4.0		
MOX	e P	Z	04:37:05.1	12.0	166.3	0.5	12	4.3		
FBE	e P	Z	04:37:05.6	12.0	173.0	0.9	11	4.0		
TNS	e P	Z	04:37:08.3	12.2	154.3					
UBBA	e P	Z	04:37:11.7	12.4	160.8					
CLL	e P	Z	04:37:10.9	12.4	171.9	0.7	8	3.9		
CLZ	e P	Z	04:37:21.1	13.3	163.4	0.9	7	3.8		
NRDL	e P	Z	04:37:30.1	14.0	163.3	0.9	4	3.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/13	14:15:41.8	40.253N	20.048E	32.0G				NEIC

Greece-Albania border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:17:59.1	9.7	150.0	1.1	8			
WET	e P	Z	14:18:06.4	10.2	147.6					
ROTZ	e P	Z	14:18:18.5	11.0	146.9	0.9	4			
MANZ	e P	Z	14:18:20.6	11.2	147.2	1.0	8			
GRA1	e P	Z	14:18:23.9	11.3	143.3	0.8	13			
WERN	e P	Z	14:18:23.5	11.4	148.9	1.0	6			
TANN	e P	Z	14:18:23.2	11.5	149.5	1.0	3			
WERD	e P	Z	14:18:24.9	11.5	149.1	1.1	8			
BFO	e P	Z	14:18:24.5	11.6	129.7	0.9	8			
MOX	e P	Z	14:18:29.5	11.9	147.3	0.8	14			
TNS	e P	Z	14:18:41.7	12.9	136.4	1.0	9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/13	17:06:40.1	26.285N	126.217E	33.0N	5.3			SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:19:00.7	82.6	56.8	0.8	4	4.7		
BSEG	e P	Z	17:19:01.3	82.7	54.4	1.4	15	5.0		
CLL	e P	Z	17:19:01.0	82.8	56.1					
CLZ	e P	Z	17:19:07.0	83.9	54.2	1.4	30	5.3		



MOX	e P	Z	17:19:07.4	83.9	55.1	1.0	4	4.6
MANZ	e P	Z	17:19:08.1	84.0	55.4	0.7	3	4.6
ROTZ	e P	Z	17:19:08.4	84.1	55.4		544	9.1
UBBA	e P	Z	17:19:10.9	84.7	53.9	1.5	14	4.9
GRA1	e P	Z	17:19:11.0	84.7	54.7	1.2	20	5.1
IBBN	e P	Z	17:19:12.2	84.9	52.3	0.9	22	5.3
BUG	e P	Z	17:19:15.9	85.7	51.9	1.1	15	5.0
BFO	e P	Z	17:19:22.2	87.0	52.5	1.5	16	5.0

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/14 00:04:51.0 49.020N 27.280W 33.0N 4.8 3.9  
 Northern Mid-Atlantic Ridge SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e P	Z	00:09:43.4	22.0	277.4	1.5	90	5.0		
IBBN	e P	Z	00:09:46.8	22.2	275.6	1.5	73	4.9		
BSEG	e P	Z	00:10:01.0	23.6	273.5	1.6	122	5.2		
NRDL	e P	Z	00:10:00.3	23.6	276.6	1.5	69	5.0		
GTTN	e P	Z	00:10:01.7	23.7	278.7	1.5	26	4.6		
CLZ	e P	Z	00:10:03.1	23.9	278.3	1.5	61	4.9		
GRA1	e P	Z	00:10:11.6	24.8	283.4	1.4	44	5.0		
	e L	Z	00:18:52.2			21.5	404		3.9	
MOX	e P	Z	00:10:11.7	24.9	281.5	1.3	20	4.7		
FUR	e P	Z	00:10:15.5	25.2	286.6	1.6	64	5.1		
MANZ	e P	Z	00:10:16.2	25.3	283.1	1.4	57	5.1		
WERD	e P	Z	00:10:16.1	25.3	282.3	1.6	20	4.6		
ROTZ	e P	Z	00:10:16.6	25.4	283.6	1.6	49	4.9		
TANN	e P	Z	00:10:17.0	25.4	282.4	1.4	17	4.5		
CLL	e P	Z	00:10:18.2	25.6	280.9	1.6	42	4.8		
FBE	e P	Z	00:10:21.2	25.9	281.8	1.4	35	4.8		
BRG	e P	Z	00:10:24.3	26.2	282.2	1.4	22	4.6		
GEC2	e P	Z	00:10:27.5	26.6	286.1	1.3	11	4.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/14 00:09:23.1 48.761N 25.365W 33.0N 4.3  
 Northern Mid-Atlantic Ridge SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:14:32.3	23.7	281.9	1.4	14	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/14 00:14:32.3 5.270N 94.470E 53.5 5.2  
 Northern Sumatera, Indonesia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:26:35.4	79.9	94.0	1.3	24	5.0		
GEC2	e P	Z	00:26:36.0	80.0	93.5	1.2	54	5.4		
RUE	e P	Z	00:26:36.6	80.2	94.2	1.2	52	5.3		
	e pP	Z	00:26:51.7							
FBE	e P	Z	00:26:37.7	80.3	93.6	1.2	30	5.1		
WET	e P	Z	00:26:39.0	80.5	92.9	1.2	30	5.1		
CLL	e P	Z	00:26:38.4	80.6	93.4	1.4	17	4.8		
	e pP	Z	00:26:53.7							
TANN	e P	Z	00:26:40.5	80.9	92.8	1.4	17	4.9		
WERN	e P	Z	00:26:40.9	80.9	92.7	1.3	15	4.9		
WERD	e P	Z	00:26:41.0	81.0	92.7	1.3	18	4.9		
ROTZ	e P	Z	00:26:41.8	81.0	92.5	1.2	24	5.1		
MANZ	e P	Z	00:26:42.1	81.1	92.5	1.2	35	5.3		
MOX	e P	Z	00:26:43.4	81.4	92.2	1.4	17	4.9		
	e pP	Z	00:26:58.4							
FUR	e P	Z	00:26:44.0	81.5	91.5	1.3	31	5.2		
GRA1	e P	Z	00:26:45.0	81.6	91.7	1.2	30	5.3		
	e pP	Z	00:27:00.2							
CLZ	e P	Z	00:26:47.7	82.2	91.4	1.2	26	5.2		
BSEG	e P	Z	00:26:48.4	82.3	91.6	1.2	38	5.4		
NRDL	e P	Z	00:26:48.8	82.4	91.3	1.4	36	5.3		
GTTN	e P	Z	00:26:49.0	82.5	91.0	1.1	14	5.0		
STU	e P	Z	00:26:51.2	82.9	90.1	1.3	20	5.2		
BFO	e P	Z	00:26:54.0	83.5	89.4	1.2	17	5.1		
IBBN	e P	Z	00:26:56.3	83.8	89.4	1.1	26	5.4		
BUG	e P	Z	00:26:57.9	84.1	88.9	1.5	47	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	00:47:45.2	48.553N	25.357W	33.0N	4.4			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:52:54.9	23.7	281.4	1.6	22	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	00:52:25.2	48.856N	25.745W	33.0N	4.2			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:57:36.5	23.9	282.3	1.3	9	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	01:26: 6.5	48.702N	24.370W	33.0N	4.2			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:31:09.5	23.1	281.3	1.1	10	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	03:11:11.5				4.9			SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 03:22:43.2			1.0	12	5.0		
CLL	e P	Z 03:22:50.8			0.8	15	5.1		
CLZ	e P	Z 03:22:53.8			0.8	9	4.9		
FBE	e P	Z 03:22:52.3			1.1	12	4.9		
GRA1	e P	Z 03:23:01.8			0.6	10	5.0		
IBBN	e P	Z 03:22:56.2			0.3	16	5.5		
MOX	e P	Z 03:22:57.2			0.6	3	4.5		
NRDL	e P	Z 03:22:50.3			1.0	7	4.8		
UBBA	e P	Z 03:22:58.8			0.6	2	4.4		
WERD	e P	Z 03:22:57.1			1.9	20	4.8		
WERN	e P	Z 03:22:57.4			0.6	4	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	04:18:48.9	52.300N	176.340E	33.0N	5.8	6.3		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 04:30:19.5	73.1	8.9	1.5	170	6.0		
RUE	e P	Z 04:30:25.4	74.2	11.0	0.9	59	5.6		
NRDL	e P	Z 04:30:27.5	74.6	8.7	1.6	110	5.6		
IBBN	e P	Z 04:30:30.0	75.0	7.2	1.6	363	6.2		
CLZ	e P	Z 04:30:31.5	75.2	8.8	1.5	139	5.9		
CLL	e P	Z 04:30:30.9	75.4	10.4	2.3	339	6.1		
	e PP	Z 04:33:26.6							
	e (PPP)	Z 04:34:56.5							
	e S	N 04:40:17.1							
	e PS	N 04:40:46.3							
	e SS	N 04:45:10.6							
	e SSS	E 04:48:33.6							
	e SSSS	E 04:50:46.0							
	e LR	Z 04:55:15.0							
	e PKPPKPdf	Z 04:57:50.3							
	e L	Z 05:10:14.7			20.0	21661	6.5		

GTTN	e P	Z	04:30:33.2	75.5	8.6	1.1	70	5.7		
BRG	e P	Z	04:30:34.0	75.8	11.0	1.5	86	5.6		
FBE	e P	Z	04:30:34.5	75.8	10.6	1.6	144	5.9		
BUG	e P	Z	04:30:34.7	75.9	6.9	1.5	181	6.0		
UBBA	e P	Z	04:30:36.8	76.2	8.6	2.9	725	6.3		
MOX	e P	Z	04:30:37.0	76.2	9.5	1.6	101	5.7		
WERD	e P	Z	04:30:37.9	76.4	10.0	1.6	81	5.6		
TANN	e P	Z	04:30:38.1	76.4	10.1	1.7	111	5.7		
WERN	e P	Z	04:30:38.9	76.5	10.0	1.6	93	5.7		
MANZ	e P	Z	04:30:40.6	76.8	9.8	1.7	76	5.5		
ROTZ	e P	Z	04:30:42.0	77.0	9.9	1.7	86	5.6		
GRA1	e P	Z	04:30:43.0	77.2	9.3	1.7	194	6.0		
	e L	Z	05:06:46.9			21.3	15843		6.3	
WET	e P	Z	04:30:45.0	77.6	10.3	1.8	128	5.7		
GEC2	e P	Z	04:30:45.8	77.8	10.8	1.6	85	5.6		
STU	e P	Z	04:30:48.6	78.3	8.0	1.3	75	5.6		
FUR	e P	Z	04:30:51.1	78.7	9.2	2.3	398	6.0		
BFO	e P	Z	04:30:51.5	78.9	7.4	1.2	63	5.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/14 04:36:10.6 42.506N 147.557E 33.0N  
 Off southeast coast of Hokkaido, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:48:18.1	80.2	31.1	1.3	10			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/14 04:46:43.4 52.090N 176.470E 36.0N 5.6  
 Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 04:58:14.3	73.3	8.8	1.8	168	5.8		
RUE	e P	Z 04:58:20.3	74.4	10.9	1.4	79	5.5		
NRDL	e P	Z 04:58:22.3	74.8	8.6	1.8	79	5.4		
IBBN	e P	Z 04:58:24.8	75.2	7.1	2.4	497	6.2		
CLZ	e P	Z 04:58:26.3	75.4	8.8	1.7	80	5.6		
CLL	e P	Z 04:58:26.9	75.7	10.4	2.4	111	5.6		
GTTN	e P	Z 04:58:28.0	75.7	8.5	1.7	47	5.3		
BRG	e P	Z 04:58:28.9	76.0	11.0	2.4	106	5.5		
FBE	e P	Z 04:58:29.3	76.0	10.6	2.1	139	5.7		
BUG	e P	Z 04:58:29.6	76.1	6.8	1.9	124	5.7		
UBBA	e P	Z 04:58:31.7	76.5	8.5	5.4	1873	6.4		
MOX	e P	Z 04:58:31.9	76.5	9.5	2.1	117	5.6		
WERD	e P	Z 04:58:32.7	76.6	9.9	3.0	252	5.8		
TANN	e P	Z 04:58:32.9	76.6	10.0	2.6	220	5.8		

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WERN	e P	Z	04:58:33.7	76.7	10.0	2.1	142	5.7
MANZ	e P	Z	04:58:35.5	77.1	9.8	2.4	97	5.5
ROTZ	e P	Z	04:58:36.8	77.3	9.8	1.7	30	5.1
GRA1	e P	Z	04:58:37.9	77.5	9.2	1.9	158	5.8
WET	e P	Z	04:58:39.8	77.8	10.2	2.3	118	5.6
GEC2	e P	Z	04:58:40.7	78.0	10.7	1.9	36	5.2
STU	e P	Z	04:58:43.4	78.6	7.9	0.9	19	5.1
FUR	e P	Z	04:58:45.9	79.0	9.2	1.2	40	5.3
BFO	e P	Z	04:58:46.3	79.1	7.4	1.9	66	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	07:24:7.1	3.250N	95.040E	33.0N	5.2			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:36:23.6	81.9	94.4	1.1	28	5.3		
BRG	e P	Z	07:36:23.8	81.9	94.9	1.5	22	5.1		
RUE	e P	Z	07:36:24.8	82.1	95.0	0.6	27	5.6		
FBE	e P	Z	07:36:25.5	82.2	94.4	1.0	13	5.0		
WET	e P	Z	07:36:26.2	82.4	93.8	1.4	22	5.1		
CLL	e P	Z	07:36:26.3	82.5	94.2	0.9	8	4.9		
TANN	e P	Z	07:36:28.0	82.8	93.7	2.1	49	5.4		
WERN	e P	Z	07:36:28.8	82.8	93.6	0.9	6	4.8		
WERD	e P	Z	07:36:28.8	82.9	93.5	1.3	11	4.9		
ROTZ	e P	Z	07:36:29.2	82.9	93.4	1.3	17	5.1		
MANZ	e P	Z	07:36:29.8	83.0	93.3	1.2	22	5.3		
MOX	e P	Z	07:36:30.7	83.3	93.0	2.1	37	5.3		
GRA1	e P	Z	07:36:32.3	83.5	92.6	1.2	21	5.2		
CLZ	e P	Z	07:36:35.2	84.2	92.2	1.1	14	5.1		
NRDL	e P	Z	07:36:36.7	84.3	92.0	2.3	102	5.7		
IBBN	e P	Z	07:36:43.7	85.8	90.2	0.9	18	5.2		
BUG	e P	Z	07:36:45.0	86.1	89.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/14	20:33:52.0	37.300S	179.700W	80.0N				EMSC
East of North Island, New Zealand								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:54:48.3	165.3	36.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/15	00:52:11.5	26.720N	122.450E	120.0N	4.8			SZGRF
Taiwan region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:04:09.0	80.2	59.3	0.9	4	4.3		
CLL	e P	Z	01:04:10.8	80.5	58.6	1.2	8	4.7		
FBE	e P	Z	01:04:10.9	80.5	58.8	0.8	5	4.6		
WERD	e P	Z	01:04:15.6	81.3	58.0	1.0	3	4.3		
WERN	e P	Z	01:04:15.6	81.4	58.1	0.9	4	4.6		
NRDL	e P	Z	01:04:15.7	81.4	56.7					
GEC2	e P	Z	01:04:15.7	81.4	58.8	1.2	10	4.8		
MOX	e P	Z	01:04:16.9	81.6	57.6	1.5	7	4.6		
CLZ	e P	Z	01:04:17.2	81.6	56.8	2.2	52	5.3		
ROTZ	e P	Z	01:04:18.3	81.7	57.9	1.1	4	4.4		
IBBN	e P	Z	01:04:22.5	82.7	54.9	1.1	26	5.4		
FUR	e P	Z	01:04:25.0	83.1	57.0	1.4	24	5.2		
TNS	e P	Z	01:04:26.6	83.5	55.2					
STU	e P	Z	01:04:28.4	83.9	55.6	0.8	10	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/15	04:27:59.5	1.470N	126.353E	10G	5.5	4.7		NEIC

Molucca Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z	04:42:06.3	104.8	69.3					
	e L	Z	05:31:56.2			22.0	436		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/15	06:49:46.6	45.120N	98.380E	33.0N	5.8	5.8		SZGRF

Mongolia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	06:58:56.4	52.2	62.8	1.6	432	6.1		
RUE	e P	Z	06:59:01.5	53.0	61.7	1.7	262	5.9		
BRG	e P	Z	06:59:06.3	53.6	60.7	1.7	104	5.6		
FBE	e P	Z	06:59:08.7	53.9	60.4	1.7	150	5.8		
CLL	e P	Z	06:59:08.6	53.9	60.5	1.6	105	5.6		
	e PP	Z	07:01:09.5							
	e PPP	Z	07:02:16.9							
	e S	E	07:06:41.9							
	e SS	E	07:10:27.4							
	e L	Z	07:23:40.7			18.0	6698		5.7	
TANN	e P	Z	06:59:14.2	54.7	59.6	1.6	85	5.5		
WERD	e P	Z	06:59:14.7	54.8	59.5	2.0	144	5.6		
GEC2	e P	Z	06:59:15.0	54.8	59.3	1.9	89	5.5		
WERN	e P	Z	06:59:15.1	54.8	59.5	2.0	149	5.7		
NRDL	e P	Z	06:59:16.3	54.9	59.6	1.8	259	6.0		

MOX	e P	Z	06:59:16.7	55.0	59.3	2.5	336	5.9			
CLZ	e P	Z	06:59:17.4	55.1	59.3	2.0	150	5.7			
MANZ	e P	Z	06:59:17.5	55.1	59.2	2.6	246	5.8			
WET	e P	Z	06:59:17.4	55.1	59.1	2.8	406	6.0			
ROTZ	e P	Z	06:59:18.0	55.2	59.1	2.0	178	5.7			
GTTN	e P	Z	06:59:20.1	55.5	58.9	2.2	307	6.0			
GRA1	e P	Z	06:59:22.3	55.7	58.5	1.6	206	5.9			
	e L	Z	07:25:06.1			19.0	6986			5.8	
UBBA	e P	Z	06:59:22.2	55.8	58.5	1.9	92	5.5			
IBBN	e P	Z	06:59:25.1	56.2	58.1	1.4	85	5.6			
FUR	e P	Z	06:59:27.8	56.5	57.7	2.5	697	6.2			
BUG	e P	Z	06:59:30.6	56.9	57.3	1.8	197	5.8			
STU	e P	Z	06:59:33.1	57.3	56.9	1.8	134	5.7			
BFO	e P	Z	06:59:38.0	58.1	56.2	1.3	36	5.2			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/15 17:16:3.7 14.300S 175.600W 33.0N 4.6  
 Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:35:34.2	144.3	11.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/15 18:10:21.4 15.500S 175.100W 10.0N 5.3  
 Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:29:59.4	145.4	10.8					
	e L	Z 19:33:23.3			20.5	552		5.3	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/15 23:04:50.3 44.970N 97.000E 33.0N 5.0 4.4  
 Mongolia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 23:14:00.5	52.3	62.6	1.0	27	5.1		
BRG	e P	Z 23:14:05.0	53.0	61.6	1.1	16	4.8		
FBE	e P	Z 23:14:07.7	53.3	61.3	1.0	16	4.9		
CLL	e P	Z 23:14:07.3	53.3	61.4	0.8	13	4.9		
TANN	e P	Z 23:14:12.7	54.0	60.5	1.2	12	4.8		
WERD	e P	Z 23:14:13.2	54.1	60.4	1.1	12	4.8		
WERN	e P	Z 23:14:13.9	54.1	60.4	1.0	11	4.8		
NRDL	e P	Z 23:14:15.1	54.3	60.5	1.3	31	5.2		

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MOX	e P	Z	23:14:15.6	54.4	60.2	1.0	11	4.9	
WET	e P	Z	23:14:16.2	54.4	59.9	1.0	11	4.8	
MANZ	e P	Z	23:14:16.1	54.4	60.0	1.7	21	4.9	
CLZ	e P	Z	23:14:16.1	54.4	60.2	1.1	15	4.9	
ROTZ	e P	Z	23:14:16.6	54.5	60.0	1.1	12	4.9	
GTTN	e P	Z	23:14:19.2	54.8	59.8	0.8	18	5.1	
GRA1	e P	Z	23:14:20.9	55.1	59.4	1.2	31	5.2	
	e L	Z	23:40:04.5			18.2	296		4.4
UBBA	e P	Z	23:14:20.9	55.2	59.4	1.5	18	4.9	
FUR	e P	Z	23:14:26.7	55.8	58.5	1.0	25	5.2	
BUG	e P	Z	23:14:29.9	56.3	58.2	1.5	47	5.3	
STU	e P	Z	23:14:31.7	56.7	57.8	1.6	27	5.0	
BFO	e P	Z	23:14:36.8	57.4	57.1	1.1	8	4.7	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/15 22:55:37.9 22.440S 176.910W 33.0N  
 South of Fiji Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	23:15:22.1	148.9	19.4					
CLL	e PKPbc	Z	23:15:25.3	150.1	18.6					
	e PKPab	Z	23:15:31.1							
BRG	e PKPbc	Z	23:15:25.7	150.3	20.6					
GTTN	e PKPab	Z	23:15:32.4	150.4	12.9					
FBE	e PKPbc	Z	23:15:26.4	150.4	19.5					
	e PKPab	Z	23:15:32.7							
MOX	e PKPbc	Z	23:15:27.4	151.0	16.4					
	e PKPab	Z	23:15:35.0							
WERD	e PKPbc	Z	23:15:27.6	151.1	17.8					
	e PKPab	Z	23:15:35.4							
TANN	e PKPbc	Z	23:15:27.8	151.1	18.1					
WERN	e PKPab	Z	23:15:36.4	151.2	18.0					
MANZ	e PKPbc	Z	23:15:29.0	151.6	17.7					
ROTZ	e PKPbc	Z	23:15:29.4	151.7	18.0					
TNS	e PKPbc	Z	23:15:29.8	151.9	10.6					
	e PKPab	Z	23:15:38.9							
GRA1	e PKPbc	Z	23:15:29.5	152.0	16.2					
FUR	e PKPab	Z	23:15:45.1	153.5	17.1					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/16 02:56:10.7 0.250S 122.550E 31.0  
 Minahassa Peninsula, Sulawesi, Indonesia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	03:10:01.2	101.8	75.5					



	e PP	Z	03:14:11.7									
CLL	i Pdiff	+ Z	03:10:03.2	102.3	74.7	1.3		16				
	e pPdiff	Z	03:10:09.2									
	e sPdiff	Z	03:10:12.0									
	e PP	Z	03:14:14.3									
	e PPP	Z	03:16:19.7									
	e SKSac	E	03:20:39.6									
	e PS	E	03:23:16.7									
	e PPS	N	03:24:04.2									
	e SS	E	03:28:53.8									
	e SSS	N	03:32:31.5									
	e L	Z	04:02:06.3			18.0		1402		5.5		
GEC2	e Pdiff	Z	03:10:04.1	102.5	75.7							
TANN	e Pdiff	Z	03:10:05.6	102.8	74.4							
	e PP	Z	03:14:19.5									
WET	e Pdiff	Z	03:10:06.1	102.9	75.0							
	e PP	Z	03:14:20.4									
BSEG	e Pdiff	Z	03:10:07.3	103.1	71.9							
	e PP	Z	03:14:23.6									
ROTZ	e Pdiff	Z	03:10:07.3	103.2	74.4							
	e PP	Z	03:14:22.6									
MANZ	e Pdiff	Z	03:10:07.0	103.2	74.2							
	e PP	Z	03:14:22.6									
MOX	e Pdiff	Z	03:10:07.4	103.3	73.7							
	e PP	Z	03:14:23.0									
NRDL	e Pdiff	Z	03:10:10.0	103.6	72.0							
	e PP	Z	03:14:24.7									
CLZ	e Pdiff	Z	03:10:09.3	103.7	72.4							
	e PP	Z	03:14:26.3									
GRA1	e Pdiff	Z	03:10:09.8	103.8	73.6							
	e pPdiff	Z	03:10:20.4									
	e PP	Z	03:14:27.4									
	e L	Z	04:03:03.6			20.4		1175		5.4		
FUR	e Pdiff	Z	03:10:10.4	104.2	74.0							
	e PP	Z	03:14:31.0									
UBBA	e PP	Z	03:14:29.8	104.2	72.3							
IBBN	e PP	Z	03:14:36.2	105.1	70.1							
STU	e PP	Z	03:14:38.6	105.3	72.2							
BUG	e PP	Z	03:14:40.7	105.6	69.9							
BFO	e PP	Z	03:14:43.0	106.0	71.6							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/16 04:02:40.5 7.900S 156.400E 70.0N  
 Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	04:21:39.1	126.5	43.4					

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BRG	e PKPdf	Z	04:21:39.6	127.0	49.1
	e PP	Z	04:23:38.2		
CLL	e PKPdf	Z	04:21:39.7	127.2	47.8
NRDL	e PKPdf	Z	04:21:41.0	127.6	44.0
	e PP	Z	04:23:41.3		
CLZ	e PKPdf	Z	04:21:41.7	128.0	44.6
TANN	e PKPdf	Z	04:21:41.3	128.0	47.8
MOX	e PKPdf	Z	04:21:41.5	128.3	46.7
	e PP	Z	04:23:44.2		
GEC2	e PKPdf	Z	04:21:42.2	128.5	50.0
MANZ	e PKPdf	Z	04:21:42.7	128.5	47.6
ROTZ	e PKPdf	Z	04:21:42.8	128.6	47.9
WET	e PKPdf	Z	04:21:43.0	128.7	49.0
	e PP	Z	04:23:49.4		
IBBN	e PKPdf	Z	04:21:43.1	128.8	41.4
GRA1	e PKPdf	Z	04:21:43.8	129.1	46.8
	e PP	Z	04:23:51.5		
BUG	e PKPdf	Z	04:21:45.5	129.6	41.3
STU	e PP	Z	04:24:03.4	130.7	45.0
BFO	e PP	Z	04:24:06.7	131.4	44.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/16	05:35:54.5	1.216N	121.863E	34D	5.3	4.9		NEIC

Minahassa Peninsula, Sulawesi, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e Pdiff	Z	05:49:41.6	100.7	74.4					
	e PP	Z	05:53:48.3							
	e PPP	Z	05:56:07.8							
	e PPPP	Z	05:57:39.3							
	e SKSac	E	06:00:14.6							
	e PS	E	06:02:52.4							
	e PPS	N	06:03:42.7							
	e SS	E	06:08:32.7							
	e SSS	N	06:12:27.9							
	e L	Z	06:41:42.6			18.0	649		5.2	
GRA1	e PP	Z	05:54:03.9	102.3	73.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/16	10:42:56.1	40.910N	143.909E	31.3	4.9	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	10:54:46.9	77.1	34.2	1.0	26	5.3		

CLL	e P	Z	10:54:53.0	78.4	35.7	0.9	23	5.2	
BRG	e P	Z	10:54:53.3	78.4	36.3	0.9	8	4.7	
NRDL	e P	Z	10:54:53.6	78.4	33.8	1.1	9	4.7	
CLZ	e P	Z	10:54:56.5	78.9	33.9	0.9	17	5.1	
TANN	e P	Z	10:54:58.6	79.3	35.2	0.8	4	4.4	
IBBN	e P	Z	10:54:58.7	79.3	32.2	0.9	21	5.1	
MOX	e P	Z	10:54:59.1	79.4	34.7	1.0	11	4.7	
MANZ	e P	Z	10:55:01.2	79.8	34.9	0.9	8	4.6	
UBBA	e P	Z	10:55:02.3	79.8	33.6				
ROTZ	e P	Z	10:55:02.3	79.9	35.0	1.0	12	4.8	
GEC2	e P	Z	10:55:02.7	80.1	35.9	1.0	7	4.6	
WET	e P	Z	10:55:03.6	80.2	35.4	1.0	17	4.9	
BUG	e P	Z	10:55:03.4	80.2	31.8	0.9	16	5.0	
GRA1	e P	Z	10:55:04.6	80.3	34.3	1.0	28	5.2	
	e pP	Z	10:55:13.6						
	e L	Z	11:35:45.4			21.0	215		4.5
FUR	e P	Z	10:55:10.9	81.6	34.2	0.7	23	5.4	
STU	e P	Z	10:55:11.9	81.8	32.9	0.5	14	5.4	
BFO	e P	Z	10:55:15.5	82.5	32.2	0.9	10	5.0	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/16 17:10:41.0 40.800N 144.180E 30.3 5.7 5.8  
 Off east coast of Honshu, Japan SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:22:35.1	77.3	34.0	1.1	91	5.8		
	e S	T	17:32:25.9							
CLL	i P	+ Z	17:22:41.3	78.6	35.5	1.1	80	5.7		
	e pP	Z	17:22:49.8							
	e PP	Z	17:25:40.6							
	e PPP	Z	17:27:27.3							
	e S	E	17:32:39.6							
	e ScS	N	17:33:03.4							
	e PS	Z	17:33:28.4							
	e SS	E	17:37:47.8							
	e SSS	Z	17:41:07.5							
	e L	Z	18:00:35.6			22.0	2457		5.5	
BRG	e P	Z	17:22:41.6	78.6	36.1	1.4	58	5.4		
	e S	T	17:32:38.5							
NRDL	e P	Z	17:22:41.9	78.6	33.7	2.1	189	5.7		
	e S	T	17:32:38.2							
CLZ	e P	Z	17:22:44.7	79.0	33.8	1.6	176	5.7		
	e S	T	17:32:44.4							
TANN	e P	Z	17:22:46.9	79.5	35.1	2.0	121	5.5		
	e S	T	17:32:47.7							
IBBN	e P	Z	17:22:46.9	79.5	32.1	1.0	84	5.6		
	e S	T	17:32:49.0							

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MOX	e P	Z	17:22:47.4	79.6	34.5	1.8	123	5.5	
	e S	T	17:32:48.7						
MANZ	e P	Z	17:22:49.7	80.0	34.8	1.2	36	5.2	
	e S	T	17:32:51.9						
ROTZ	e P	Z	17:22:50.6	80.1	34.8	1.9	206	5.8	
	e S	T	17:32:55.4						
GEC2	e P	Z	17:22:51.0	80.3	35.7	1.2	39	5.3	
	e S	T	17:32:57.1						
WET	e P	Z	17:22:51.8	80.4	35.2	1.3	86	5.6	
	e S	T	17:32:58.9						
BUG	e P	Z	17:22:51.6	80.4	31.6	1.4	92	5.6	
	e S	T	17:32:59.1						
GRA1	e P	Z	17:22:52.8	80.5	34.2	1.3	148	5.9	
	e pP	Z	17:23:01.5						
	e S	T	17:33:00.6						
	e L	T	17:57:34.4			20.4	4662		5.8
FUR	e P	Z	17:22:59.1	81.8	34.1	1.0	102	5.9	
	e S	T	17:33:13.8						
STU	e P	Z	17:23:00.2	82.0	32.7	1.0	62	5.8	
	e S	T	17:33:16.1						
BFO	e P	Z	17:23:03.8	82.7	32.1	2.0	250	6.1	
	e S	T	17:33:21.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/16	18:28:49.0	46.320N	146.110E	33.0N	5.9			SZGRF
Northwest of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	18:40:17.4	73.0	30.2	1.0	84	5.8		
NRDL	e P	Z	18:40:24.8	74.3	29.9	1.6	147	5.8		
CLL	e P	Z	18:40:24.9	74.4	31.6	1.1	209	6.1		
BRG	e P	Z	18:40:25.5	74.4	32.1	1.2	77	5.6		
CLZ	e P	Z	18:40:28.1	74.7	30.0	1.3	259	6.1		
IBBN	e P	Z	18:40:29.8	75.1	28.4	1.3	188	6.0		
TANN	e P	Z	18:40:30.9	75.3	31.1	1.7	114	5.7		
MOX	e P	Z	18:40:31.3	75.4	30.6	1.2	119	5.9		
UBBA	e P	Z	18:40:33.1	75.7	29.6	1.2	66	5.6		
MANZ	e P	Z	18:40:33.7	75.8	30.8	1.2	66	5.6		
ROTZ	e P	Z	18:40:34.9	75.9	30.9	1.2	96	5.8		
BUG	e P	Z	18:40:34.9	76.0	27.9	1.3	233	6.2		
GEC2	e P	Z	18:40:35.9	76.2	31.7	1.1	68	5.7		
WET	e P	Z	18:40:36.6	76.3	31.2	1.1	184	6.1		
GRA1	e P	Z	18:40:37.1	76.3	30.2	1.0	245	6.3		
	e PP	Z	18:43:32.6							
TNS	e P	Z	18:40:39.1	76.8	28.5	1.1	137	6.0		
FUR	e P	Z	18:40:44.1	77.6	30.1	1.1	288	6.3		
STU	e P	Z	18:40:44.7	77.8	28.9	1.0	200	6.2		

BFO	e P	Z	18:40:48.3	78.5	28.3	1.1	150	5.9		
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/16	19:53:36.5	39.606N	142.935E	33.0N	4.5			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:05:48.9	81.1	35.6	1.1	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/16	20:19:22.8	40.597N	144.579E	32.3	5.7	5.2		SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:31:16.3	77.6	33.8	3.7	270	5.8		
	e S	T	20:41:05.6							
CLL	i P	+ Z	20:31:22.4	78.9	35.4	1.0	43	5.4		
	e pP	Z	20:31:31.6							
	e PP	Z	20:34:21.2							
	e PPP	Z	20:36:01.6							
	e S	E	20:41:19.7							
	e ScS	N	20:41:47.6							
	e SS	E	20:46:28.3							
	e SSSS	E	20:52:28.9							
	e L	Z	21:11:43.2			18.0	2114		5.5	
BRG	e P	Z	20:31:23.2	78.9	36.0	3.2	244	5.7		
	e S	T	20:41:18.9							
NRDL	e P	Z	20:31:23.5	78.9	33.5	3.3	248	5.7		
	e S	T	20:41:18.7							
CLZ	e P	Z	20:31:25.9	79.4	33.6	2.9	292	5.7		
	e pP	Z	20:31:34.8							
	e sP	Z	20:31:40.6							
	e S	T	20:41:21.8							
TANN	e P	Z	20:31:28.0	79.8	34.9	4.2	272	5.5		
	e S	T	20:41:28.6							
IBBN	e P	Z	20:31:28.4	79.8	31.9	2.9	332	5.8		
	e pP	Z	20:31:37.4							
	e sP	Z	20:31:43.1							
	e S	T	20:41:29.1							
MOX	e P	Z	20:31:28.5	79.9	34.4	4.0	236	5.5		
	e S	T	20:41:30.4							
MANZ	e P	Z	20:31:30.8	80.3	34.6	3.2	189	5.6		
	e S	T	20:41:33.8							
UBBA	e P	Z	20:31:30.9	80.3	33.3	3.2	203	5.6		
	e S	T	20:41:34.3							

ROTZ	e P	Z	20:31:31.8	80.4	34.7	2.7	273	5.8	
	e S	T	20:41:37.3						
GEC2	e P	Z	20:31:32.1	80.6	35.6	4.2	184	5.4	
WET	e P	Z	20:31:33.0	80.7	35.1	3.0	209	5.6	
	e pP	Z	20:31:42.1						
	e sP	Z	20:31:48.7						
	e S	T	20:41:40.0						
BUG	e P	Z	20:31:32.8	80.7	31.4	3.0	224	5.7	
	e pP	Z	20:31:42.1						
	e sP	Z	20:31:48.8						
	e S	T	20:41:39.8						
GRA1	e P	Z	20:31:34.0	80.9	34.0	2.6	331	5.9	
	e pP	Z	20:31:43.3						
	e sP	Z	20:31:49.0						
	e S	T	20:41:38.9						
FUR	e L	Z	21:14:14.4			18.7	1078	5.2	
	e P	Z	20:31:40.4	82.1	33.9	19.3	283	5.1	
	e S	T	20:41:53.5						
STU	e P	Z	20:31:41.9	82.3	32.6	3.3	156	5.7	
	e PP	Z	20:34:54.1						
	e S	T	20:41:57.5						
BFO	e P	Z	20:31:45.0	83.0	31.9	3.1	268	5.9	
	e pP	Z	20:31:54.2						
	e sP	Z	20:31:59.8						
	e S	T	20:42:03.0						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/17 03:45:59.6 20.210S 174.330W 75.4 SZGRF  
 Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	04:05:30.6	146.1	7.8					
NRDL	e PKPbc	Z	04:05:34.3	147.5	7.8					
IBBN	e PKPbc	Z	04:05:35.6	147.9	3.7					
CLZ	e PKPbc	Z	04:05:36.5	148.2	8.4					
CLL	e PKPbc	Z	04:05:36.9	148.4	13.2					
BRG	e PKPbc	Z	04:05:37.8	148.7	15.0					
BUG	e PKPbc	Z	04:05:37.8	148.7	2.9					
UBBA	e PKPbc	Z	04:05:38.7	149.2	8.0					
MOX	e PKPbc	Z	04:05:39.1	149.2	10.9					
TANN	e PKPbc	Z	04:05:39.5	149.3	12.6					
MANZ	e PKPbc	Z	04:05:41.0	149.8	12.1					
	e PKPab	Z	04:05:46.8							
	e pPKPbc	Z	04:06:02.1							
ROTZ	e PKPbc	Z	04:05:41.4	150.0	12.3					
	e pPKPbc	Z	04:06:02.2							
GRA1	e PKPbc	Z	04:05:41.8	150.2	10.5					

	e PKPab	Z	04:05:47.7		
	e pPKPbc	Z	04:06:03.3		
WET	e PKPbc	Z	04:05:41.8	150.5	13.8
	e pPKPbc	Z	04:06:04.1		
WLF	e PKPbc	Z	04:05:42.8	150.5	0.9
	e PKPab	Z	04:05:49.8		
GEC2	e PKPbc	Z	04:05:42.7	150.6	15.5
	e pPKPbc	Z	04:06:03.9		
STU	e PKPbc	Z	04:05:44.1	151.3	6.9
	e pPKPbc	Z	04:06:05.1		
FUR	e PKPbc	Z	04:05:45.1	151.7	11.1
BFO	e PKPbc	Z	04:05:45.2	151.8	5.3
	e pPKPbc	Z	04:06:06.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17	04:51:40.4	40.717N	142.261E	45.4	4.5			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 05:03:27.0	76.8	35.4	0.7	6	4.8		
BRG	e P	Z 05:03:33.2	77.9	37.5	0.6	2	4.4		
CLL	e P	Z 05:03:32.9	77.9	36.9	0.8	6	4.8		
ROTZ	e P	Z 05:03:41.9	79.5	36.2	1.2	5	4.3		
GEC2	e P	Z 05:03:42.1	79.6	37.1	0.7	2	4.2		
WET	e P	Z 05:03:43.2	79.7	36.5	1.2	4	4.3		
GRA1	e P	Z 05:03:44.5	79.9	35.5	0.8	11	4.8		
	e pP	Z 05:03:57.7							
BFO	e P	Z 05:03:55.5	82.1	33.4	0.7	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17	10:44:0.5	1.900N	97.700E	15.0N				NEIC

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PcP	Z 10:56:47.7	86.3	91.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17	12:13:43.3	33.310N	26.320E	10.0G	4.4			SZGRF

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 12:17:56.5	18.2	144.1	0.9	25	4.4		
	e S	N 12:21:29.3							

FUR	e P	Z	12:18:00.8	18.7	137.3	1.0	68	4.8
WET	e P	Z	12:18:02.4	18.7	142.8	1.2	44	4.6
	e S	N	12:21:36.4					
ROTZ	e P	Z	12:18:10.5	19.5	142.3	1.2	16	4.1
MANZ	e P	Z	12:18:12.7	19.7	142.5	1.1	15	4.1
	e S	N	12:21:56.1					
BRG	e P	Z	12:18:13.9	19.8	148.0	1.1	7	3.8
	e S	N	12:21:54.8					
GRA1	e P	Z	12:18:14.5	19.8	140.1	2.0	160	4.9
TANN	e P	Z	12:18:15.4	19.9	144.0	1.0	17	4.2
	e S	N	12:21:59.5					
STU	e P	Z	12:18:17.3	20.1	134.1	0.9	25	4.4
BFO	e P	Z	12:18:17.6	20.2	131.5	0.8	9	4.0
MOX	e P	Z	12:18:20.7	20.4	142.5	0.9	11	4.2
CLL	e P	Z	12:18:21.4	20.4	146.6	1.4	22	4.3
CLZ	e P	Z	12:18:35.9	21.8	141.9	0.8	17	4.6
WLF	e P	Z	12:18:39.4	22.1	130.1	0.7	16	4.5
NRDL	e P	Z	12:18:42.6	22.4	142.3	1.0	17	4.6
BUG	e P	Z	12:18:46.7	22.8	135.3	0.9	22	4.7
IBBN	e P	Z	12:18:50.8	23.2	137.6	0.9	28	4.8
BSEG	e P	Z	12:18:53.9	23.5	144.8	1.1	36	4.8

Date 2006/06/17  
Origin Time 14:33:12.0  
Ethiopia  
Lat 9.500N  
Long 41.760E  
Depth 33.0N  
mb 4.6  
Ms  
ML  
Source SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:41:30.4	45.8	139.7	1.3	11	4.7		
WET	e P	Z	14:41:33.9	46.4	138.9	1.3	4	4.3		
ROTZ	e P	Z	14:41:40.7	47.1	138.4	1.4	6	4.6		
BRG	e P	Z	14:41:41.4	47.3	141.2	1.1	5	4.6		
MANZ	e P	Z	14:41:41.8	47.4	138.4	0.9	4	4.5		
GRA1	e P	Z	14:41:43.4	47.5	137.2	1.6	16	4.9		
TANN	e P	Z	14:41:43.2	47.5	139.1	1.8	17	4.9		
MOX	e P	Z	14:41:47.8	48.1	138.2	1.3	4	4.4		

Date 2006/06/17  
Origin Time 14:45: 7.3  
Ethiopia  
Lat 11.621N  
Long 41.790E  
Depth 33.0N  
mb 4.5  
Ms  
ML  
Source SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:53:24.9	45.6	135.8	1.0	5	4.5		



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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17	16:20:30.5	11.116N	41.468E	33.0N	4.7			SZGRF

Ethiopia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:28:50.5	45.9	136.5	1.4	12	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 17:09:23.6							
	e Sn	E 17:10:31.0							
WET	e Pn	Z 17:09:31.8							
	e Sn	E 17:10:45.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:22:34.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/17	19:08: 5.2	26.883N	129.542E	41.1	5.0			SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:20:41.1	85.9	51.9	1.3	15	5.0		
	e pP	Z 19:20:53.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18	01:19:40.7	34.630N	25.890E	33.0N	3.7			SZGRF

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 01:23:38.4	16.8	143.1	0.9	6	3.7		
FUR	e P	Z 01:23:44.6	17.4	135.9	1.1	16	4.1		
WET	e P	Z 01:23:44.4	17.4	141.7	1.0	6	3.7		
ROTZ	e P	Z 01:23:54.1	18.2	141.3	0.8	1	3.1		
MANZ	e P	Z 01:23:54.4	18.4	141.5	1.7	8	3.5		
BRG	e P	Z 01:23:56.1	18.4	147.4	0.7	2	3.3		

GRA1	e P	Z	01:23:56.3	18.5	139.0	1.0	7	3.8
TANN	e P	Z	01:23:57.6	18.6	143.1	0.9	4	3.7
MOX	e P	Z	01:24:02.7	19.1	141.6	1.0	3	3.5
CLZ	e P	Z	01:24:17.2	20.5	141.0	1.0	3	3.6
WLF	e P	Z	01:24:24.0	20.9	128.7	1.0	9	4.0
NRDL	e P	Z	01:24:25.6	21.1	141.6	0.9	3	3.6
BSEG	e P	Z	01:24:36.5	22.2	144.2	1.1	7	4.0

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/18

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:27:41.1							

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/18

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:59:25.3							

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/18 11:21:14.9  
Fiji Islands region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 11:40:48.4	145.3	13.0					
NRDL	e PKPbc	Z 11:40:53.1	146.7	13.1					
IBBN	e PKPbc	Z 11:40:54.7	147.2	9.2					
CLZ	e PKPbc	Z 11:40:54.8	147.3	13.8					
CLL	e PKPbc	Z 11:40:54.9	147.4	18.6					
BRG	e PKPbc	Z 11:40:55.6	147.6	20.4					
BUG	e PKPbc	Z 11:40:56.6	148.1	8.5					
MOX	e PKPbc	Z 11:40:57.1	148.3	16.5					
	e PKPab	Z 11:41:00.8							
TANN	e PKPbc	Z 11:40:57.5	148.3	18.1					
MANZ	e PKPbc	Z 11:40:59.2	148.8	17.7					
ROTZ	e PKPbc	Z 11:40:59.6	149.0	18.0					
TNS	e PKPbc	Z 11:40:59.9	149.1	11.0					
GRA1	e PKPbc	Z 11:41:00.3	149.2	16.2					
WET	e PKPbc	Z 11:41:00.8	149.4	19.5					
GEC2	e PKPbc	Z 11:41:00.7	149.5	21.2					
WLF	e PKPbc	Z 11:41:02.2	149.9	6.9					
	e PKPab	Z 11:41:07.6							

STU	e PKPbc	Z	11:41:03.2	150.5	12.9
BFO	e PKPbc	Z	11:41:04.2	151.0	11.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/06/18											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e PKP	Z 12:49:11.3								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/06/18											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e PKP	Z 16:24:49.8								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/06/18	16:55: 0.7	16.958S	40.581E	22.2	4.6			SZGRF			
Mozambique											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e P	Z 17:06:20.3	71.5	150.4	1.1	6	4.6			
		e pP	Z 17:06:26.6			1.1	6				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/06/18											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e PKP	Z 17:23:34.5								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/06/18	18:28: 1.1	32.660N	40.190W	33.0N	5.3	5.7		SZGRF			
Northern Mid-Atlantic Ridge											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	WLF	e P	Z 18:35:16.4	38.0	261.3	1.4	118	5.4			
		e S	T 18:41:09.3								
	BUG	e P	Z 18:35:24.5	39.0	260.1	1.6	186	5.5			
		e S	T 18:41:25.1								
	BFO	e P	Z 18:35:27.4	39.3	264.8	1.2	60	5.1			

	e S	T	18:41:29.9							
IBBN	e P	Z	18:35:28.3	39.5	259.5	1.4	176	5.5		
	e S	T	18:41:32.2							
STU	e P	Z	18:35:32.2	39.9	264.9	1.1	40	5.0		
	e S	T	18:41:38.1							
NRDL	e P	Z	18:35:40.8	40.9	261.4	1.4	234	5.7		
	e S	T	18:41:54.3							
CLZ	e P	Z	18:35:41.2	41.0	262.4	1.3	162	5.6		
	e S	T	18:41:54.7							
BSEG	e P	Z	18:35:43.8	41.3	260.0	1.2	435	6.1		
	e S	T	18:41:57.7							
GRA1	e P	Z	18:35:43.8	41.3	265.5	1.4	56	5.1		
	e PP	Z	18:37:23.0							
	e S	T	18:42:00.1							
	e SS	N	18:45:10.6							
	e L	Z	18:49:24.0			21.7	10781		5.7	
MOX	e P	Z	18:35:46.4	41.6	264.8	1.3	41	5.0		
	e S	T	18:42:04.4							
MANZ	e P	Z	18:35:49.0	41.9	265.9	1.6	70	5.1		
	e S	T	18:42:10.3							
ROTZ	e P	Z	18:35:49.0	41.9	266.3	1.8	62	5.0		
	e S	T	18:42:10.0							
TANN	e P	Z	18:35:50.8	42.2	265.7	1.5	57	5.1		
	e S	T	18:42:13.4							
WET	e P	Z	18:35:52.1	42.3	267.5	1.9	80	5.1		
	e S	T	18:42:16.0							
CLL	e P	Z	18:35:53.8	42.6	265.2	1.4	88	5.3		
	e S	T	18:42:18.9							
GEC2	e P	Z	18:35:56.1	42.9	268.4	2.0	110	5.2		
	e S	T	18:42:24.3							
BRG	e P	Z	18:35:58.4	43.1	266.5	1.5	96	5.3		
	e S	T	18:42:27.8							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/18 18:37:55.8 53.350N 160.170W 33.0N 5.2 SZGRF  
 South of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:49:21.6	72.4	354.1	1.0	17	5.1		
NRDL	e P	Z 18:49:29.8	73.8	354.0	1.5	42	5.2		
IBBN	e P	Z 18:49:30.0	73.9	352.5	1.1	23	5.1		
CLZ	e P	Z 18:49:34.0	74.5	354.2	1.1	22	5.1		
BUG	e P	Z 18:49:34.4	74.7	352.3	1.9	94	5.5		
CLL	e P	Z 18:49:37.2	75.2	355.8	1.0	13	5.0		
BRG	e P	Z 18:49:40.1	75.7	356.4	1.7	46	5.3		
MOX	e P	Z 18:49:40.9	75.8	355.0	0.9	14	5.1		
TANN	e P	Z 18:49:42.6	76.0	355.5	1.8	40	5.3		

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WLF	e P	Z	18:49:44.4	76.3	351.6	1.4	41	5.4
MANZ	e P	Z	18:49:45.0	76.5	355.3	1.8	39	5.2
ROTZ	e P	Z	18:49:46.5	76.7	355.3	1.7	48	5.4
GRA1	e P	Z	18:49:46.5	76.7	354.7	0.9	16	5.1
WET	e P	Z	18:49:50.1	77.3	355.8	1.6	43	5.3
STU	e P	Z	18:49:50.4	77.5	353.5			
GEC2	e P	Z	18:49:51.7	77.7	356.3	1.0	8	4.8
BFO	e P	Z	18:49:52.4	77.9	353.0	0.8	10	5.0
FUR	e P	Z	18:49:54.8	78.2	354.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18	18:37:52.4	53.300N	160.700W	11.0N				NEIC
South of Alaska								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKKP	Z 19:09:12.4	76.8	355.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18	19:53:11.5	60.082N	150.415W	33.0N	4.4			SZGRF
Kenai Peninsula, Alaska, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:04:15.5	69.2	350.3	1.1	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18	20:07:58.9	49.400N	153.990E	44.5	4.6			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 20:19:29.3	73.6	23.6	0.8	2	4.3		
CLL	e P	Z 20:19:31.0	73.9	25.2	0.7	5	4.7		
BRG	e P	Z 20:19:31.8	74.1	25.8	1.2	4	4.4		
CLZ	e P	Z 20:19:32.4	74.1	23.7	0.9	7	4.7		
IBBN	e P	Z 20:19:33.5	74.3	22.1	1.0	6	4.6		
TANN	e P	Z 20:19:37.1	74.9	24.8	1.2	3	4.2		
MOX	e P	Z 20:19:36.5	74.9	24.3	0.7	4	4.5		
UBBA	e P	Z 20:19:38.2	75.2	23.3	0.8	2	4.4		
BUG	e P	Z 20:19:39.2	75.3	21.7	0.7	4	4.6		
MANZ	e P	Z 20:19:39.6	75.4	24.5	4.6	100	5.2		
ROTZ	e P	Z 20:19:40.7	75.6	24.6	1.0	5	4.6		
GRA1	e P	Z 20:19:42.3	75.9	24.0	0.9	9	4.9		
	e pP	Z 20:19:55.1							
WET	e P	Z 20:19:42.9	75.9	24.9	0.9	5	4.6		

GEC2	e P	Z	20:19:43.1	76.0	25.4	0.8	2	4.4
BFO	e P	Z	20:19:53.4	77.9	22.1	1.1	4	4.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18	22:22:51.8	4.770N	95.330E	49.9	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:34:59.5	80.9	93.7	0.7	6	4.7		
	e pP	Z	22:35:13.9							
GEC2	e P	Z	22:34:59.9	80.9	93.2	0.8	11	4.9		
WET	e P	Z	22:35:02.7	81.5	92.6	0.9	6	4.6		
	e pP	Z	22:35:17.5							
CLL	e P	Z	22:35:02.4	81.5	93.0	1.0	4	4.4		
TANN	e P	Z	22:35:04.4	81.8	92.5	0.7	2	4.4		
ROTZ	e P	Z	22:35:05.7	81.9	92.2	0.8	7	4.8		
MANZ	e P	Z	22:35:06.2	82.0	92.1	1.1	10	4.8		
	e pP	Z	22:35:20.5							
MOX	e P	Z	22:35:07.2	82.3	91.8	0.7	3	4.5		
GRA1	e P	Z	22:35:09.0	82.6	91.4	0.8	8	5.0		
	e pP	Z	22:35:23.5							
CLZ	e P	Z	22:35:11.7	83.1	91.0	0.9	7	4.9		
BSEG	e P	Z	22:35:12.1	83.2	91.2	0.8	10	5.1		
NRDL	e P	Z	22:35:12.5	83.3	90.9	1.0	4	4.6		
	e pP	Z	22:35:27.2							
BFO	e P	Z	22:35:17.9	84.4	89.1	0.9	5	4.7		
IBBN	e P	Z	22:35:20.1	84.7	89.0	0.6	8	5.1		
	e pP	Z	22:35:34.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:46:01.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:22:24.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/19	03:05:6.2	60.070N	153.510W	33.0N	4.8			SZGRF

Southern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 03:15:46.5	65.3	351.2					
IBBN	e P	Z 03:15:55.3	66.6	349.9	0.6	10	5.2		
CLZ	e P	Z 03:16:00.0	67.3	351.4	0.7	12	5.2		
BUG	e P	Z 03:15:59.6	67.4	349.8	0.7	11	5.2		
CLL	e P	Z 03:16:04.0	68.1	352.8	0.7	4	4.7		
FBE	e P	Z 03:16:06.9	68.5	353.0	1.5	10	4.8		
BRG	e P	Z 03:16:07.4	68.6	353.3	1.0	5	4.7		
MOX	e P	Z 03:16:07.7	68.6	352.1	0.7	9	5.1		
WERD	e P	Z 03:16:09.2	68.9	352.5	0.8	2	4.5		
TANN	e P	Z 03:16:09.5	68.9	352.6	1.1	4	4.6		
GRA1	e P	Z 03:16:13.8	69.5	351.9	0.5	4	4.8		
ROTZ	e P	Z 03:16:13.7	69.6	352.5	0.7	5	4.8		
GEC2	e P	Z 03:16:20.1	70.6	353.3	0.8	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/19	05:48:24.5							SZGRF

Luzon, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:01:14.6			1.3	7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/19	07:54:14.4	0.545N	44.230E	33.0N	4.4			SZGRF

North Indian Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:03:54.7	56.7	139.3	0.7	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/19	20:53:43.2	17.600S	175.300W	281.0N				NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z 21:12:42.4	143.4	9.0					
NRDL	e PKP	Z 21:12:46.5	144.8	9.0					
IBBN	e PKP	Z 21:12:48.1	145.2	5.1					
CLZ	e PKP	Z 21:12:49.2	145.5	9.6					
CLL	i PKPbc	+ Z 21:12:49.4	145.7	14.1	1.1	34			

	e pPKPbc	Z	21:13:57.7		
FBE	e PKP	Z	21:12:51.0	146.0	14.9
MOX	e PKP	Z	21:12:52.0	146.5	12.0
WERD	e PKP	Z	21:12:52.1	146.6	13.2
MANZ	e PKP	Z	21:12:53.9	147.1	13.1
ROTZ	e PKP	Z	21:12:54.3	147.3	13.3
GRA1	e PKP	Z	21:12:54.9	147.5	11.6
GEC2	e PKP	Z	21:12:55.9	147.9	16.3
WLF	e PKP	Z	21:12:56.2	147.9	2.6
STU	e PKP	Z	21:12:57.5	148.6	8.2
FUR	e PKP	Z	21:12:58.2	149.0	12.2
BFO	e PKP	Z	21:12:58.8	149.1	6.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/19	21:47:7.1	36.290N	140.780E	33.0N	5.0			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	21:59:16.3	80.2	38.5	0.9	13	5.0		
BRG	e P	Z	21:59:20.9	81.1	40.8	0.8	7	4.8		
CLL	e P	Z	21:59:21.1	81.2	40.1	0.8	15	5.2		
FBE	e P	Z	21:59:22.4	81.3	40.4	0.9	14	5.1		
CLZ	e P	Z	21:59:24.9	81.8	38.3	0.9	10	4.9		
WERD	e P	Z	21:59:26.6	82.1	39.6	0.9	3	4.6		
MOX	e P	Z	21:59:26.9	82.2	39.1					
IBBN	e P	Z	21:59:28.0	82.4	36.5	0.7	16	5.4		
MANZ	e P	Z	21:59:28.9	82.6	39.4	0.8	6	4.9		
ROTZ	e P	Z	21:59:29.7	82.7	39.4	1.1	9	4.9		
GRFO	e P	Z	21:59:32.1	83.2	38.7	0.9	14	5.2		
FUR	e P	Z	21:59:37.8	84.3	38.7	0.7	13	5.3		
STU	e P	Z	21:59:39.5	84.7	37.3	0.7	12	5.2		
BFO	e P	Z	21:59:42.8	85.4	36.6	1.1	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/20	00:42:26.8	17.424S	13.884W	22.6	5.1	4.6		SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRC1	e S	N	01:02:51.2	70.2	205.8					
GRA2	e P	Z	00:53:39.9	70.7	205.5	1.7	24	5.1		
	e pP	Z	00:53:46.3							
	e L	Z	01:23:45.2			19.1	339		4.6	



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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/20	01:46:13.9	19.750S	178.250W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:05:46.8	145.2	14.2					
CLZ	e PKPbc	Z 02:05:53.1	147.2	15.1					
CLL	e PKPbc	Z 02:05:53.4	147.2	19.8					
BRG	e PKPbc	Z 02:05:54.1	147.4	21.7					
MOX	e PKPbc	Z 02:05:55.6	148.1	17.8					
TANN	e PKPbc	Z 02:05:55.4	148.2	19.4					
MANZ	e PKPbc	Z 02:05:57.8	148.7	19.0					
ROTZ	e PKPbc	Z 02:05:58.0	148.8	19.3					
GRA2	e PKPbc	Z 02:05:58.7	149.1	17.8					
GEC2	e PKPbc	Z 02:05:58.8	149.4	22.5					
WLF	e PKPbc	Z 02:06:00.8	149.9	8.3					
FUR	e PKPbc	Z 02:06:02.8	150.6	18.5					
BFO	e PKPbc	Z 02:06:02.8	150.9	12.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/20	04:20:46.2	30.000S	178.400W	100.0N				GSRC

Kermadec Islands, New Zealand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z 04:40:51.9	155.2	18.3					
CLL	e PKP	Z 04:40:59.7	157.1	26.1					
BRG	e PKP	Z 04:41:00.3	157.2	28.5					
CLZ	e PKP	Z 04:41:00.4	157.2	19.9					
IBBN	e PKP	Z 04:41:00.6	157.2	13.9					
TANN	e PKP	Z 04:41:03.8	158.0	25.8					
MOX	e PKP	Z 04:41:03.9	158.0	23.7					
MANZ	e PKP	Z 04:41:06.4	158.5	25.5					
ROTZ	e PKP	Z 04:41:07.4	158.7	26.0					
GRA2	e PKP	Z 04:41:08.7	159.0	24.2					
GEC2	e PKP	Z 04:41:08.3	159.0	30.5					
WET	e PKP	Z 04:41:08.9	159.0	28.2					
WLF	e PKP	Z 04:41:12.9	160.0	11.6					
BFO	e PKP	Z 04:41:16.5	161.0	18.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/20	05:49:18.5	3.900N	125.800E	150.0N	4.8			GSRC

Talau Islands, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e Pdiff	Z 06:03:01.3	102.5	68.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/20	10:02: 4.4	50.740N	131.860W	33.0N	5.2	5.4		SZGRF

Vancouver Island, Canada, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	10:13:24.2	71.5	334.4	0.9	29	5.4		
NRDL	e P	Z	10:13:26.6	71.9	335.8	1.1	29	5.3		
BUG	e P	Z	10:13:27.4	72.1	334.2	1.1	24	5.3		
	e S	T	10:22:50.0							
CLZ	e P	Z	10:13:31.2	72.6	336.0	1.2	43	5.5		
WLF	e P	Z	10:13:35.8	73.4	333.8	1.2	21	5.1		
CLL	e P	Z	10:13:36.9	73.7	337.7	1.5	37	5.3		
	e PP	Z	10:16:24.9							
	e PPP	Z	10:18:05.2							
	e S	E	10:23:09.3							
	e PS	N	10:23:35.2							
	e SS	N	10:27:50.0							
	e SSS	N	10:31:28.8							
	e LR	Z	10:36:42.8							
	e L	Z	10:47:27.8			18.0	3354		5.7	
MOX	e P	Z	10:13:38.8	74.0	336.9	1.0	22	5.2		
BRG	e P	Z	10:13:41.1	74.3	338.3	1.2	36	5.3		
TANN	e P	Z	10:13:41.4	74.4	337.5	1.3	18	4.9		
	e S	T	10:23:16.4							
MANZ	e P	Z	10:13:43.3	74.7	337.3	1.2	13	4.8		
GRA1	e P	Z	10:13:43.9	74.7	336.8	1.0	21	5.1		
	e PP	Z	10:16:32.9							
	e L	Z	10:45:39.6			21.9	2158		5.4	
ROTZ	e P	Z	10:13:44.7	74.9	337.4	1.1	16	4.9		
	e S	T	10:23:22.1							
STU	e P	Z	10:13:45.3	75.1	335.7	0.7	17	5.2		
BFO	e P	Z	10:13:46.2	75.2	335.2	1.2	41	5.3		
WET	e P	Z	10:13:49.0	75.7	337.8	1.2	16	5.0		
GEC2	e P	Z	10:13:51.7	76.1	338.4	1.2	21	5.1		
FUR	e P	Z	10:13:52.0	76.2	337.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/20	16:53: 4.1	33.690N	104.240E	33.0N	5.1	4.7		SZGRF

Gansu, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:03:40.8	64.7	67.0	1.0	12	5.1		
CLL	e P	Z	17:03:42.9	65.1	66.6	0.9	10	5.0		
BSEG	e P	Z	17:03:46.5	65.5	65.8	1.1	28	5.4		

GEC2	e P	Z	17:03:47.2	65.6	66.0	1.0	14	5.2	
TANN	e P	Z	17:03:47.6	65.7	65.8	1.0	9	5.0	
WET	e P	Z	17:03:49.7	66.0	65.6	0.9	7	4.9	
MANZ	e P	Z	17:03:50.6	66.1	65.4	1.3	10	4.9	
MOX	e P	Z	17:03:50.1	66.1	65.4	0.9	4	4.7	
ROTZ	e P	Z	17:03:50.8	66.1	65.4	1.0	17	5.2	
NRDL	e P	Z	17:03:51.1	66.2	65.1	1.2	21	5.2	
CLZ	e P	Z	17:03:51.8	66.3	65.0	1.1	22	5.3	
GRA1	e P	Z	17:03:54.6	66.8	64.7	0.8	19	5.4	
	e L	Z	17:34:58.1			19.6	498		4.7
FUR	e P	Z	17:03:58.7	67.4	64.2	1.0	43	5.6	
BUG	e P	Z	17:04:03.6	68.2	62.8	1.0	14	5.1	
BFO	e P	Z	17:04:08.2	69.1	62.4	1.0	8	4.9	
WLF	e P	Z	17:04:13.1	69.7	61.4	1.2	34	5.3	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/21 00:42:14.8 12.047N 90.923E 33.0N 4.7  
 Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:53:38.6	72.5	92.4	1.1	6	4.6		
GEC2	e P	Z 00:53:38.8	72.6	91.5	1.1	7	4.7		
FBE	e P	Z 00:53:40.9	72.9	91.9	1.2	10	4.8		
WET	e P	Z 00:53:42.2	73.1	91.0	1.9	17	4.9		
TANN	e P	Z 00:53:43.3	73.4	91.1	1.8	10	4.6		
WERD	e P	Z 00:53:44.6	73.5	91.0	1.5	6	4.4		
ROTZ	e P	Z 00:53:45.3	73.6	90.7	1.1	7	4.6		
MANZ	e P	Z 00:53:45.8	73.6	90.7	1.4	11	4.7		
GRA1	e P	Z 00:53:48.7	74.2	89.9	1.2	12	4.8		
CLZ	e P	Z 00:53:51.3	74.7	89.8	1.8	26	5.0		
BSEG	e P	Z 00:53:51.8	74.8	90.4	1.1	10	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/21 00:51:12.4 35.300N 10.810W 33.0N 4.5 3.7  
 Azores-Cape St. Vincent Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 00:55:31.0	19.0	227.1	0.9	37	4.6		
BFO	e P	Z 00:55:34.5	19.2	234.4	1.4	24	4.2		
STU	e P	Z 00:55:42.7	19.9	234.9	1.0	20	4.3		
TNS	e P	Z 00:55:47.9	20.4	230.4	1.0	20	4.3		
BUG	e P	Z 00:55:51.2	20.7	225.8	1.4	17	4.2		
FUR	e P	Z 00:55:51.8	20.8	239.9	1.1	44	4.7		
GRA1	e P	Z 00:55:59.7	21.6	236.4	1.1	36	4.7		
	e L	Z 01:05:10.9			18.6	293		3.7	

ROTZ	e P	Z	00:56:05.7	22.1	237.9	1.0	25	4.6
WET	e P	Z	00:56:06.5	22.2	240.3	1.3	57	4.9
MANZ	e P	Z	00:56:06.7	22.2	237.3	1.0	23	4.6
MOX	e P	Z	00:56:07.5	22.3	235.1	1.5	30	4.5
CLZ	e P	Z	00:56:08.1	22.4	230.7	1.6	26	4.4
GEC2	e P	Z	00:56:09.7	22.5	242.2	1.0	37	4.9
WERD	e P	Z	00:56:10.2	22.6	236.7	1.0	10	4.3
TANN	e P	Z	00:56:10.9	22.6	237.0	1.7	23	4.4
FBE	e P	Z	00:56:18.7	23.4	237.4	1.3	22	4.5
CLL	e P	Z	00:56:19.9	23.4	236.1	1.3	21	4.5
BRG	e P	Z	00:56:21.8	23.7	238.4	1.4	24	4.5
BSEG	e P	Z	00:56:21.8	23.8	226.9	0.7	9	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/21	02:15:47.3	10.954N	62.656W	33.0N	4.5			SZGRF

Near coast of Venezuela

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:27:03.7	71.3	264.9	1.3	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/21	08:53:32.3	0.256N	97.418E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:06:16.3	87.3	92.7	1.1	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/21	12:34:50.6	6.870N	93.190E	19.7		5.6		SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:46:47.3	77.9	94.0	1.5	107			
GEC2	e P	Z 12:46:47.5	77.9	93.4	1.5	155			
RUE	e P	Z 12:46:48.2	78.1	94.2	1.1	108			
FBE	e P	Z 12:46:49.4	78.3	93.5	1.9	260			
WET	e P	Z 12:46:50.6	78.5	92.8	1.1	48			
CLL	i P	+ Z 12:46:50.3	78.5	93.4	1.4	78	5.6		
	e PP	Z 12:49:44.1							
	e PPP	Z 12:51:33.2							
	e S	N 12:56:45.7							
	e ScS	N 12:57:09.5							
	e PPS	E 12:57:37.4							

	e SSS	E	13:05:13.3							
	e L	Z	13:27:57.0			18.0	4018		5.8	
RGN	e P	Z	12:46:50.8	78.5	94.3	2.1	247			
TANN	e P	Z	12:46:52.2	78.8	92.7					
WERD	e P	Z	12:46:52.7	78.9	92.6	1.4	56			
ROTZ	e P	Z	12:46:53.5	78.9	92.4	1.4	108			
MANZ	e P	Z	12:46:54.0	79.0	92.4	1.2	91			
MOX	e P	Z	12:46:55.3	79.4	92.1	1.5	66			
FUR	e P	Z	12:46:55.6	79.5	91.4	1.2	100			
GRA1	e P	Z	12:46:56.9	79.6	91.7	1.0	86			
	e pP	Z	12:47:02.3							
	e PP	Z	12:50:05.4							
	e S	T	12:56:58.0							
	e SS	R	13:02:18.1							
	e SSS	R	13:05:44.5							
	e L	Z	13:28:36.5			20.0	3046		5.6	
CLZ	e P	Z	12:46:59.7	80.2	91.4	1.1	56			
	e pP	Z	12:47:05.7							
BSEG	e P	Z	12:47:00.2	80.3	91.7	1.1	84			
NRDL	e P	Z	12:47:00.9	80.3	91.3	2.1	283			
UBBA	e P	Z	12:47:00.8	80.4	90.9	2.0	132			
STU	e P	Z	12:47:03.4	80.9	90.0	1.8	157			
BFO	e P	Z	12:47:06.2	81.5	89.2	1.6	70			
IBBN	e P	Z	12:47:08.4	81.8	89.4	1.0	52			
BUG	e P	Z	12:47:10.0	82.1	88.9	1.1	61			
WLF	e P	Z	12:47:14.4	82.9	87.8	1.9	183			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/21 12:41:14.7 0.480N 75.220W 170.0 5.6  
 Colombia-Ecuador border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	12:53:26.9	84.1	263.7	0.9	169	6.3		
BUG	e P	Z	12:53:31.0	85.0	264.4	0.9	96	6.0		
IBBN	e P	Z	12:53:32.9	85.3	264.7	0.9	79	5.9		
BFO	e P	Z	12:53:32.5	85.4	265.5	1.0	17	5.2		
HLG	e P	Z	12:53:34.0	85.6	264.7					
TNS	e P	Z	12:53:34.1	85.6	265.4	1.2	78	5.7		
STU	e P	Z	12:53:35.5	86.0	266.1	0.9	51	5.6		
UBBA	e P	Z	12:53:39.0	86.6	266.6	1.5	28	5.2		
NRDL	e P	Z	12:53:39.8	86.8	266.6	1.2	41	5.4		
CLZ	e P	Z	12:53:40.7	86.9	266.8	1.3	66	5.6		
BSEG	e P	Z	12:53:41.1	87.0	266.7	1.3	35	5.3		
FUR	e P	Z	12:53:42.9	87.3	267.7					
GRA1	e P	Z	12:53:42.6	87.3	267.6					
MOX	e P	Z	12:53:43.9	87.6	267.9	1.7	46	5.5		
	e pP	Z	12:54:26.4							

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MANZ	e P	Z	12:53:45.9	87.9	268.3	1.0	30	5.6
ROTZ	e P	Z	12:53:45.8	88.0	268.3	1.2	38	5.6
WERD	e P	Z	12:53:46.0	88.1	268.4	1.0	25	5.5
	e pP	Z	12:54:28.6					
TANN	e P	Z	12:53:46.6	88.2	268.5	1.2	52	5.7
	e pP	Z	12:54:28.5					
WET	e P	Z	12:53:47.6	88.4	268.9	1.2	40	5.6
CLL	e P	Z	12:53:48.0	88.5	268.9	1.3	42	5.5
FBE	e P	Z	12:53:49.3	88.7	269.2	1.1	44	5.6
GEC2	e P	Z	12:53:49.9	88.9	269.5	0.9	9	5.0
RUE	e P	Z	12:53:50.2	89.0	269.5	0.7	26	5.6
BRG	e P	Z	12:53:50.8	89.1	269.7	1.0	44	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/21								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 15:01:46.9							
MOX	e Pn	Z 15:02:16.9							
WET	e Pn	Z 15:01:54.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/21	15:54:41.4	39.026N	20.394E	33.0G		3.9		NR1A
Greece-Albania border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 15:57:20.3	10.9	151.5					
WET	e P	Z 15:57:27.2	11.5	149.2					
MANZ	e P	Z 15:57:40.3	12.4	148.7					
GRA1	e P	Z 15:57:43.7	12.5	145.1					
	e L	Z 16:02:30.5			19.6	1156		3.9	
STU	e P	Z 15:57:43.7	12.6	136.3					
BFO	e P	Z 15:57:47.5	12.7	132.5					
MOX	e P	Z 15:57:50.3	13.2	148.6					
CLZ	e P	Z 15:58:15.0	14.6	147.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/21	23:37:56.4	19.190N	45.520W	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 23:46:55.9	51.0	252.5	1.7	28	4.9		
BFO	e P	Z 23:47:02.8	52.0	255.5	1.6	25	4.9		

FUR	e P	Z	23:47:18.0	53.9	258.1	2.1	101	5.5
GRA1	e P	Z	23:47:19.5	54.1	257.0	1.5	22	5.0
CLZ	e P	Z	23:47:19.6	54.2	254.7	1.5	22	5.0
NRDL	e P	Z	23:47:20.4	54.2	254.0	1.4	23	5.0
MOX	e P	Z	23:47:22.0	54.6	256.7	1.8	23	4.9
BSEG	e P	Z	23:47:22.6	54.7	253.2	1.5	48	5.3
ROTZ	e P	Z	23:47:23.7	54.8	257.8	1.4	13	4.8
WERD	e P	Z	23:47:25.7	55.0	257.4	2.0	35	5.0
TANN	e P	Z	23:47:25.4	55.1	257.6	1.9	35	5.1
WET	e P	Z	23:47:25.8	55.1	258.8	1.5	20	4.9
CLL	e P	Z	23:47:30.3	55.6	257.4	1.5	24	5.0
FBE	e P	Z	23:47:30.9	55.7	258.0	1.5	31	5.1
BRG	e P	Z	23:47:33.9	56.1	258.5	1.4	14	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/22	01:12:0.5	4.351N	33.393W	33.0N	4.5			SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:21:56.4	58.9	234.9	1.2	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/22	01:15:48.6	4.180N	32.561W	33.0N	4.7	4.4		SZGRF

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:25:42.4	58.6	234.0	1.2	9	4.7		
	e L	Z 01:48:47.8			18.5	264		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/22	10:53:13.2	46.950N	148.360E	33.0N	6.7	5.4		SZGRF

Northwest of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 11:04:34.4	71.6	30.5					
BSEG	e P	Z 11:04:42.3	73.0	28.5	1.2	402	6.3		
RUE	e P	Z 11:04:43.6	73.3	30.5					
NRDL	e P	Z 11:04:49.7	74.4	28.2	1.2	406	6.3		
	e S	R 11:14:23.8							
CLL	e P	Z 11:04:50.5	74.5	29.8	1.0	826	6.8		
	e sP	Z 11:05:27.2							
	e PP	Z 11:07:41.4							
	e PPP	Z 11:09:30.1							

	e S	E	11:14:26.1								
	e SKSac	N	11:14:57.5								
	e PS	N	11:15:24.1								
	e SS	Z	11:19:28.6								
	e LR	Z	11:28:59.4								
	e L	Z	11:39:40.1			18.0	1786		5.4		
BRG	e P	Z	11:04:50.9	74.6	30.4	1.5	701	6.6			
	e S	R	11:14:24.7								
FBE	e P	Z	11:04:52.0	74.8	30.0						
CLZ	e P	Z	11:04:53.0	74.9	28.2	1.3	924	6.8			
TANN	e P	Z	11:04:56.1	75.5	29.4	0.5	169	6.4			
WERD	e P	Z	11:04:56.2	75.5	29.3						
MOX	e P	Z	11:04:56.4	75.5	28.9	1.3	622	6.6			
	e S	R	11:14:34.6								
UBBA	e P	Z	11:04:58.0	75.9	27.9	1.8	842	6.6			
MANZ	e P	Z	11:04:59.0	76.0	29.1	1.3	487	6.5			
BUG	e P	Z	11:04:59.5	76.1	26.2	1.3	758	6.7			
	e S	R	11:14:43.8								
ROTZ	e P	Z	11:05:00.2	76.1	29.2	1.0	476	6.6			
	e S	R	11:14:40.9								
GEC2	e P	Z	11:05:01.5	76.4	30.0	1.5	681	6.6			
WET	e P	Z	11:05:02.0	76.4	29.5	1.2	930	6.8			
GRA1	e P	Z	11:05:02.4	76.5	28.5	1.2	1122	6.9			
	e S	R	11:14:48.9								
	e L	Z	11:44:48.2			19.2	1946		5.4		
FUR	e P	Z	11:05:09.5	77.8	28.4	1.4	1462	6.8			
STU	e P	Z	11:05:09.9	77.9	27.2	1.3	766	6.6			
WLF	e P	Z	11:05:10.4	78.0	25.3	1.9	1160	6.6			
BFO	e P	Z	11:05:13.2	78.6	26.6	1.3	586	6.4			

Date 2006/06/22  
 Origin Time 19:15:59.8  
 Lat 24.558N  
 Long 95.592E  
 Depth 55.1  
 mb 4.9  
 Ms  
 ML  
 Source SZGRF  
 Myanmar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 19:26:40.1	66.1	79.9	1.0	8	4.9		
CLL	e P	Z 19:26:42.9	66.6	79.4	0.9	6	4.7		
GEC2	e P	Z 19:26:43.5	66.6	78.9	0.7	7	4.9		
WET	e P	Z 19:26:46.5	67.1	78.4	0.8	5	4.7		
TANN	e P	Z 19:26:46.4	67.1	78.7	1.0	6	4.6		
ROTZ	e P	Z 19:26:48.9	67.4	78.2	1.5	27	5.2		
MANZ	e P	Z 19:26:49.3	67.4	78.2	1.2	9	4.8		
MOX	e P	Z 19:26:49.4	67.5	78.2	1.3	9	4.8		
BSEG	e P	Z 19:26:50.2	67.7	78.5	0.7	12	5.2		
GRA1	e P	Z 19:26:53.1	68.0	77.5	1.6	30	5.3		
	e pP	Z 19:27:08.3							
CLZ	e P	Z 19:26:53.2	68.1	77.7	1.4	19	5.1		



NRDL e P Z 19:26:53.7 68.1 77.8 1.0 14 5.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/22 19:35:1.8 39.937N 16.888E 10.0G 4.4 SZGRF  
 Southern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z 19:36:40.8	6.8	164.6					3.7
	e Sn	N 19:37:56.3							
ARSA	e Pn	Z 19:36:48.6	7.4	171.8					4.3
	e Sn	E 19:38:08.6							
KBA	e Pn	Z 19:36:51.0	7.6	159.0					4.4
	e Sn	E 19:38:14.5							
	e Sn	Z 19:38:17.3							
MOA	e Pn	Z 19:36:59.1	8.1	165.6					4.6
	e Sn	N 19:38:30.3							
WTTA	e Pn	Z 19:37:01.4	8.3	150.7					4.8
DAVA	e Pn	Z 19:37:10.5	8.9	142.9					4.6
	e Sn	E 19:38:46.2							
GEC2	e Pn	Z 19:37:12.8	9.2	164.5					
	e Sn	N 19:38:53.9							
WET	e Pn	Z 19:37:18.6	9.6	161.3					
	e Sn	E 19:39:02.6							
ROTZ	e Pn	Z 19:37:28.3	10.4	159.7					
	e Sn	E 19:39:18.0							
GRA1	e Sn	N 19:39:23.4	10.5	155.6					
MANZ	e Pn	Z 19:37:31.4	10.6	159.7					
	e Sn	N 19:39:22.9							
TANN	e Pn	Z 19:37:36.4	10.9	161.8					
	e Sn	N 19:39:32.4							
WERD	e Pn	Z 19:37:37.6	11.0	161.3					
MOX	e Pn	Z 19:37:41.2	11.3	159.0					
	e Sn	N 19:39:40.3							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/23 00:28:43.5 17.568S 177.708W 33.0N 4.4 SZGRF  
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 00:48:10.4	143.1	12.8					
RUE	e PKPbc	Z 00:48:13.5	143.9	18.8					
IBBN	e PKPbc	Z 00:48:16.6	145.0	9.1					
CLZ	e PKPbc	Z 00:48:16.5	145.1	13.6					
CLL	e PKPbc	Z 00:48:16.5	145.2	18.1					
BRG	e PKPbc	Z 00:48:16.8	145.4	19.8					

BUG	e	PKPbc	Z	00:48:19.1	145.9	8.5
MOX	e	PKPbc	Z	00:48:19.8	146.1	16.1
WERD	e	PKPbc	Z	00:48:20.1	146.2	17.3
	e	PKPab	Z	00:48:22.8		
TANN	e	PKPbc	Z	00:48:20.2	146.2	17.6
UBBA	e	PKPbc	Z	00:48:19.9	146.2	13.3
MANZ	e	PKPbc	Z	00:48:20.9	146.6	17.2
	e	PKPab	Z	00:48:23.9		
ROTZ	e	PKPbc	Z	00:48:22.1	146.8	17.5
TNS	e	PKPbc	Z	00:48:22.6	147.0	10.8
	e	PKPab	Z	00:48:26.2		
GRA1	e	PKPbc	Z	00:48:22.6	147.1	15.8
	e	PKPab	Z	00:48:26.8		
WET	e	PKPbc	Z	00:48:22.7	147.3	18.9
	e	PKPab	Z	00:48:27.7		
GEC2	e	PKPbc	Z	00:48:23.2	147.4	20.5
	e	PKPab	Z	00:48:28.0		
WLF	e	PKPbc	Z	00:48:25.0	147.8	6.9
	e	PKPab	Z	00:48:29.7		
STU	e	PKPbc	Z	00:48:25.7	148.3	12.6
	e	PKPab	Z	00:48:30.5		
FUR	e	PKPbc	Z	00:48:26.3	148.5	16.6
BFO	e	PKPbc	Z	00:48:26.8	148.8	11.2
	e	PKPab	Z	00:48:33.7		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/23 05:34: 4.0 22.570N 69.960E 17.1 5.0  
 Southern India SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:43:06.7	51.2	99.9	1.3	20	4.9		
BRG	e P	Z	05:43:08.9	51.4	101.7	0.9	22	5.2		
WET	e P	Z	05:43:11.2	51.8	99.4	1.4	7	4.5		
FBE	e P	Z	05:43:11.9	51.8	101.2	1.2	43	5.3		
CLL	e P	Z	05:43:13.6	52.1	101.2	1.4	21	5.0		
TANN	e P	Z	05:43:15.0	52.3	100.0	1.1	9	4.7		
ROTZ	e P	Z	05:43:15.5	52.3	99.3	1.3	18	4.9		
WERD	e P	Z	05:43:15.3	52.4	99.9	1.1	11	4.8		
MANZ	e P	Z	05:43:17.1	52.4	99.4	1.4	25	5.1		
MOX	e P	Z	05:43:19.4	52.8	99.5	1.2	32	5.2		
GRA1	e P	Z	05:43:20.1	52.9	98.4	0.7	30	5.4		
	e pP	Z	05:43:24.8							
CLZ	e P	Z	05:43:26.1	53.8	99.3	1.1	21	5.1		
UBBA	e P	Z	05:43:27.1	53.9	98.2					
WLF	e P	Z	05:43:43.8	56.2	94.3	0.9	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/23	06:21:11.2	28.076N	54.255E	33.0N	4.7	3.9		SZGRF

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 06:28:19.9	37.3	108.8	1.0	4	4.3		
BRG	e P	Z 06:28:25.0	37.8	111.5	1.3	16	4.8		
WET	e P	Z 06:28:25.1	37.9	108.3	0.7	5	4.6		
FBE	e P	Z 06:28:27.9	38.2	110.9	0.7	6	4.7		
ROTZ	e P	Z 06:28:31.0	38.5	108.4	1.2	15	4.8		
CLL	e P	Z 06:28:31.1	38.6	111.0	0.9	16	4.9		
TANN	e P	Z 06:28:31.3	38.6	109.4	0.8	3	4.2		
GRA1	e P	Z 06:28:35.6	39.1	107.3	0.8	22	5.0		
	e L	Z 06:48:40.9			18.1	155		3.9	
UBBA	e P	Z 06:28:44.2	40.2	107.4	0.6	4	4.3		
CLZ	e P	Z 06:28:46.1	40.3	108.9	1.2	40	5.0		
BFO	e P	Z 06:28:48.1	40.6	102.9	0.9	4	4.2		
NRDL	e P	Z 06:28:49.4	40.6	109.3	1.1	48	5.2		
BUG	e P	Z 06:29:00.9	42.0	105.4	0.9	17	4.7		
WLF	e P	Z 06:29:01.6	42.3	102.4	1.0	13	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/23	08:02:52.9	19.528N	46.008W	33.0N	4.6			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:12:15.6	54.2	257.7	0.9	5	4.6		
MOX	e P	Z 08:12:19.2	54.7	257.4					
WERD	e P	Z 08:12:22.7	55.0	258.1					
TANN	e P	Z 08:12:22.5	55.1	258.3					
WET	e P	Z 08:12:23.4	55.2	259.5					
GEC2	e P	Z 08:12:26.5	55.6	260.4					
BRG	e P	Z 08:12:29.1	56.1	259.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/23	12:18:57.0	52.070N	177.120E	30.9	5.2	4.8		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 12:30:37.2	74.9	8.2	1.2	20	5.0		
IBBN	e P	Z 12:30:39.7	75.2	6.7	1.2	70	5.7		
CLZ	e P	Z 12:30:41.2	75.5	8.4	1.3	35	5.3		
CLL	e P	Z 12:30:41.8	75.8	10.0	1.6	28	5.1		
BRG	e P	Z 12:30:43.7	76.1	10.6	1.2	14	4.9		

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BUG	e P	Z	12:30:44.4	76.1	6.4	1.4	36	5.3		
UBBA	e P	Z	12:30:46.5	76.5	8.1	2.0	43	5.2		
MOX	e P	Z	12:30:46.8	76.6	9.1	1.4	18	5.0		
TANN	e P	Z	12:30:47.7	76.7	9.6	1.9	34	5.2		
	e PP	Z	12:33:41.8							
MANZ	e P	Z	12:30:50.3	77.2	9.4	1.7	31	5.2		
	e PP	Z	12:33:44.8							
ROTZ	e P	Z	12:30:51.6	77.4	9.4	1.6	23	5.1		
	e PP	Z	12:33:45.6							
GRA1	e P	Z	12:30:52.8	77.5	8.8	1.2	31	5.3		
	e pP	Z	12:31:01.7							
	e S	E	12:40:54.1							
	e SS	N	12:45:55.7							
	e L	Z	13:17:19.6			18.5	383		4.8	
WET	e P	Z	12:30:54.7	77.9	9.8	1.6	25	5.1		
GEC2	e P	Z	12:30:55.6	78.1	10.3	1.7	32	5.2		
	e PP	Z	12:33:54.1							
BFO	e P	Z	12:31:01.2	79.1	7.0	1.5	26	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/23 16:00:42.2 28.251N 54.297E 33.0N 4.6  
 Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	16:07:50.2	37.2	108.5	0.6	1	4.1		
BRG	e P	Z	16:07:55.1	37.7	111.3	0.7	4	4.5		
WET	e P	Z	16:07:55.1	37.8	108.1	0.8	5	4.5		
ROTZ	e P	Z	16:08:00.8	38.4	108.1	0.6	5	4.6		
CLL	e P	Z	16:08:00.6	38.4	110.8	0.8	8	4.7		
GRA1	e P	Z	16:08:05.8	39.0	107.0	0.7	13	5.0		
CLZ	e P	Z	16:08:16.2	40.2	108.7	0.8	14	5.0		
BFO	e P	Z	16:08:18.8	40.5	102.7	1.1	4	4.2		
NRDL	e P	Z	16:08:19.5	40.5	109.1	0.9	18	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/23 19:00:15.8 24.950S 175.740E 33.0N  
 South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	19:20:04.7	150.4	27.1					
TANN	e PKPbc	Z	19:20:07.9	151.5	33.1					
WERD	e PKPbc	Z	19:20:07.2	151.5	32.8					
ROTZ	e PKPbc	Z	19:20:08.6	152.1	33.3					
GEC2	e PKPbc	Z	19:20:09.1	152.3	36.9					
WET	e PKPbc	Z	19:20:09.7	152.4	35.2					

GRA1	e	PKPbc	Z	19:20:09.0	152.5	31.6
WLF	e	PKPbc	Z	19:20:13.0	154.0	21.9
BFO	e	PKPbc	Z	19:20:14.8	154.6	27.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/23	21:50:32.4	21.440S	176.926W	18.1		5.0		SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	22:10:13.0	147.0	12.5			
RUE	e	PKPbc	Z	22:10:15.9	147.9	19.0			
NRDL	e	PKPbc	Z	22:10:16.7	148.5	12.6			
IBBN	e	PKPbc	Z	22:10:19.6	148.9	8.5			
CLZ	e	PKPbc	Z	22:10:19.9	149.1	13.3			
CLL	e	PKPbc	Z	22:10:18.9	149.1	18.2			
BRG	e	PKPbc	Z	22:10:19.7	149.4	20.1			
FBE	e	PKPbc	Z	22:10:20.0	149.4	19.1			
MOX	e	PKPbc	Z	22:10:21.6	150.0	16.1			
WERD	e	PKPbc	Z	22:10:21.4	150.1	17.4			
TANN	e	PKPbc	Z	22:10:21.5	150.1	17.7			
UBBA	e	PKPbc	Z	22:10:22.5	150.1	13.0			
MANZ	e	PKPbc	Z	22:10:23.0	150.6	17.3			
ROTZ	e	PKPbc	Z	22:10:23.3	150.8	17.6			
GRA1	e	PKPbc	Z	22:10:24.2	151.0	15.8			
	e	pPKPbc	Z	22:10:29.7					
	e	L	Z	23:18:22.1			21.9	250	5.0
WET	e	PKPbc	Z	22:10:24.3	151.2	19.2			
GEC2	e	PKPbc	Z	22:10:24.4	151.3	21.0			
WLF	e	PKPbc	Z	22:10:25.4	151.7	6.0			
STU	e	PKPbc	Z	22:10:27.4	152.2	12.3			
FUR	e	PKPbc	Z	22:10:26.7	152.5	16.7			
BFO	e	PKPbc	Z	22:10:27.4	152.8	10.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	02:49: 7.4	38.292N	20.536E	2.0G		3.6		THE

Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z	02:52:10.7	11.6	152.4			
WET	e	P	Z	02:52:19.6	12.2	150.2			
ROTZ	e	P	Z	02:52:29.4	12.9	149.4			
MANZ	e	P	Z	02:52:32.2	13.1	149.6			
GRA1	e	P	Z	02:52:31.2	13.2	146.2			
	e	L	Z	02:57:33.8			18.7	505	3.6
STU	e	P	Z	02:52:33.2	13.3	137.8			

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BFO	e P	Z	02:52:37.4	13.4	134.1
BRG	e P	Z	02:52:33.8	13.4	157.1
WERD	e P	Z	02:52:37.3	13.5	151.2
MOX	e P	Z	02:52:42.4	13.9	149.5
CLZ	e P	Z	02:53:07.5	15.3	148.3
NRDL	e P	Z	02:53:15.5	15.9	148.9
IBBN	e P	Z	02:53:22.7	16.6	142.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	04:34:51.2	48.697N	143.375E	33.0N	4.4			SZGRF
Sakhalin Island, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:46:20.2	73.4	30.7	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	10:22:9.1	18.085S	42.004E	33.0N	4.8			SZGRF
Mozambique Channel								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 10:33:26.8	71.5	151.6	1.7	20	5.0		
ROTZ	e P	Z 10:33:34.1	72.8	150.4	1.4	12	4.8		
BFO	e P	Z 10:33:35.8	72.9	146.5	1.2	9	4.8		
MANZ	e P	Z 10:33:36.5	73.0	150.3	0.3	5	5.2		
GRA1	e P	Z 10:33:36.2	73.0	149.4	0.8	11	5.0		
BRG	e P	Z 10:33:37.2	73.2	152.2	1.1	6	4.6		
TANN	e P	Z 10:33:37.6	73.3	150.7	1.5	21	5.0		
WERD	e P	Z 10:33:38.4	73.4	150.6	1.5	21	5.1		
FBE	e P	Z 10:33:38.6	73.4	151.6	0.9	4	4.6		
MOX	e P	Z 10:33:40.6	73.7	149.9	0.7	3	4.5		
CLL	e P	Z 10:33:41.6	73.9	151.3	0.9	6	4.6		
UBBA	e P	Z 10:33:45.5	74.4	148.5	1.2	9	4.7		
RUE	e P	Z 10:33:47.3	74.7	152.2					
CLZ	e P	Z 10:33:49.6	75.2	149.0	1.5	20	4.9		
BUG	e P	Z 10:33:53.4	75.9	146.0	0.6	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	16:49:29.1	14.799N	57.321E	33.0N	4.2			SZGRF
Owen Fracture Zone region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:58:28.5	51.1	116.4	1.1	3	4.2		
BFO	e P	Z 16:58:28.5	52.2	112.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	16:52:24.2	14.340N	54.890E	29.3	5.0	4.3		SZGRF

Owen Fracture Zone region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	17:01:03.1	48.2	121.2	2.3	44	5.2		
WET	e P	Z	17:01:07.2	48.8	120.5	1.5	9	4.6		
BRG	e P	Z	17:01:10.0	49.2	122.9	1.2	16	4.9		
FUR	e P	Z	17:01:11.2	49.3	118.1	1.0	68	5.6		
FBE	e P	Z	17:01:12.8	49.5	122.3	1.2	19	5.0		
ROTZ	e P	Z	17:01:13.1	49.5	120.3	1.1	13	4.8		
MANZ	e P	Z	17:01:14.4	49.7	120.4	1.1	11	4.7		
TANN	e P	Z	17:01:14.8	49.7	121.0	1.8	39	5.0		
WERD	e P	Z	17:01:15.4	49.8	120.9	1.2	19	4.9		
CLL	e P	Z	17:01:17.2	49.9	122.2	1.8	53	5.2		
	e PP	Z	17:03:18.0							
	e PPPP	Z	17:04:23.1							
	e S	E	17:08:33.0							
	e SS	E	17:12:12.3							
	e SSS	Z	17:13:40.6							
	e LR	Z	17:16:55.8							
	e L	Z	17:25:54.8			20.0	493		4.5	
GRA1	e P	Z	17:01:16.6	50.0	119.2	1.0	22	5.1		
	e pP	Z	17:01:24.6							
	e sP	Z	17:01:28.3							
	e S	T	17:08:37.6							
	e L	Z	17:24:33.4			21.8	341		4.3	
RUE	e P	Z	17:01:17.4	50.1	123.9	1.4	75	5.4		
MOX	e P	Z	17:01:19.2	50.3	120.3	0.9	12	4.8		
STU	e P	Z	17:01:21.9	50.8	116.5	0.6	9	4.9		
BFO	e P	Z	17:01:25.2	51.1	115.3	1.2	16	4.8		
UBBA	e P	Z	17:01:26.2	51.3	118.8	1.7	24	4.9		
RGN	e P	Z	17:01:28.0	51.5	124.8	1.1	47	5.3		
CLZ	e P	Z	17:01:28.9	51.6	119.9	0.9	15	4.9		
TNS	e P	Z	17:01:30.5	51.9	116.8					
NRDL	e P	Z	17:01:32.3	52.0	120.0	1.2	48	5.3		
BSEG	e P	Z	17:01:36.0	52.7	121.2					
BUG	e P	Z	17:01:39.8	53.1	116.5	0.9	10	4.8		
IBBN	e P	Z	17:01:41.0	53.2	117.5	1.3	25	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	16:57:26.8	13.546N	58.031E	23.5	4.4			SZGRF

Owen Fracture Zone region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:06:36.8	52.5	116.7	1.3	7	4.4		
	e pP	Z 17:06:43.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	19:14:12.8	19.509N	120.231E	33.0N	4.8	4.8		SZGRF

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z 19:26:40.7	84.1	65.3	0.8	28	5.5		
BRG	e P	Z 19:26:43.0	84.7	65.3	1.0	14	5.1		
FBE	e P	Z 19:26:45.0	85.0	64.9	0.8	17	5.3		
CLL	e P	Z 19:26:44.4	85.1	64.6	0.9	12	5.1		
GEC2	e P	Z 19:26:48.1	85.7	65.0	1.0	7	4.7		
TANN	e P	Z 19:26:48.5	85.8	64.2	1.2	6	4.6		
WERD	e P	Z 19:26:48.6	85.8	64.1	1.0	6	4.6		
WET	e P	Z 19:26:49.8	86.1	64.4	1.5	8	4.6		
NRDL	e P	Z 19:26:50.6	86.1	62.5	1.7	18	4.9		
MOX	e P	Z 19:26:49.9	86.1	63.5	1.4	7	4.6		
MANZ	e P	Z 19:26:50.7	86.1	63.9	1.4	7	4.6		
ROTZ	e P	Z 19:26:50.6	86.2	63.9	1.3	10	4.8		
CLZ	e P	Z 19:26:50.8	86.3	62.7	1.4	12	4.8		
GRA1	e P	Z 19:26:54.1	86.8	63.2	1.2	5	4.5		
	e S	R 19:37:30.4							
	e SS	R 19:43:28.1							
	e L	Z 20:08:55.5			18.5	390		4.8	
BUG	e P	Z 19:27:00.1	88.2	60.3	1.0	9	5.0		
BFO	e P	Z 19:27:04.5	89.1	61.0	2.1	19	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	21:15: 2.1	0.568S	123.269E	36.0G		6.1		NEIC

Minahassa Peninsula, Sulawesi, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP	Z 21:33:08.4	101.9	73.9					
	e S	R 21:43:04.5							
RUE	e PP	Z 21:33:11.3	102.2	74.7					
	e S	R 21:43:08.6							
BRG	e PP	Z 21:33:15.1	102.5	75.1					
	e S	R 21:43:12.0							
CLL	e Pdiff	Z 21:28:55.0	103.0	74.3	1.3	9			
	e PP	Z 21:33:13.9							
	e PPP	Z 21:35:28.0							
	e PPPP	Z 21:37:02.5							
	e SKSac	E 21:39:30.4							



	e Sdiff	N	21:40:34.7								
	e PS	E	21:42:24.1								
	e PPS	E	21:43:11.3								
	e PKKPbc	Z	21:44:54.8								
	e PKKPdf	Z	21:45:04.0								
	e SS	N	21:47:48.5								
	e SSS	E	21:51:49.8								
	e L	Z	22:21:57.4			22.0	7497		6.2		
GEC2	e PP	Z	21:33:19.6	103.2	75.4						
TANN	e PP	Z	21:33:23.4	103.5	74.0						
WET	e PP	Z	21:33:23.8	103.6	74.7						
BSEG	e PP	Z	21:33:23.2	103.7	71.4						
ROTZ	e PP	Z	21:33:26.1	103.9	74.0						
	e S	R	21:43:13.8								
MANZ	e PP	Z	21:33:26.2	103.9	73.8						
	e S	R	21:43:21.2								
MOX	e PP	Z	21:33:26.7	104.0	73.3						
NRDL	e PP	Z	21:33:28.3	104.3	71.6						
CLZ	e PP	Z	21:33:29.6	104.4	72.0						
	e S	R	21:42:50.9								
GRA1	e Pdiff	Z	21:29:02.8	104.5	73.2						
	e PP	Z	21:33:30.6								
	e Sdiff	T	21:40:54.1								
	e SS	T	21:48:05.9								
	e L	Z	22:24:28.2			20.2	5582		6.1		
FUR	e PP	Z	21:33:33.2	104.9	73.6						
UBBA	e PP	Z	21:33:33.7	104.9	71.9						
HLG	e PP	Z	21:33:32.9	105.0	69.3						
IBBN	e PP	Z	21:33:39.0	105.7	69.7						
TNS	e PP	Z	21:33:42.5	106.0	70.8						
STU	e PP	Z	21:33:42.1	106.0	71.8						
BUG	e PP	Z	21:33:43.9	106.3	69.5						
BFO	e PP	Z	21:33:47.3	106.7	71.2						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/24 22:35:25.8 26.137S 65.109E 33.0N 4.3  
 Southwest Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:48:20.7	89.6	133.5	1.2	2	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/24 22:45:54.7 59.660N 28.610W 33.0N 4.4  
 Reykjanes Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	22:50:40.8	21.3	304.5	1.0	29	4.6		
BUG	e P	Z	22:50:43.4	21.6	306.4	1.8	68	4.8		
BSEG	e P	Z	22:50:44.7	21.7	301.0	0.9	18	4.5		
NRDL	e P	Z	22:50:51.8	22.4	304.0	1.5	28	4.5		
CLZ	e P	Z	22:50:57.2	22.9	305.2	1.5	21	4.4		
MOX	e P	Z	22:51:09.8	24.2	307.4	1.0	12	4.4		
CLL	e P	Z	22:51:12.6	24.5	306.1	1.4	11	4.4		
GRA1	e P	Z	22:51:13.6	24.6	309.1	1.1	13	4.6		
WERD	e P	Z	22:51:13.3	24.7	307.7	1.2	6	4.2		
TANN	e P	Z	22:51:15.1	24.8	307.7	1.2	7	4.3		
MANZ	e P	Z	22:51:16.0	24.9	308.5	1.2	7	4.3		
FBE	e P	Z	22:51:17.6	24.9	306.8	1.3	17	4.6		
ROTZ	e P	Z	22:51:17.9	25.1	308.8	1.3	6	4.1		
BRG	e P	Z	22:51:20.6	25.3	306.8	1.1	4	4.1		
FUR	e P	Z	22:51:23.0	25.6	311.5	1.3	19	4.5		
WET	e P	Z	22:51:24.1	25.8	309.8	1.8	8	4.1		
GEC2	e P	Z	22:51:30.2	26.4	310.1	1.9	8	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/24	23:43:43.1	43.730N	146.840E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:55:26.3	75.5	30.9	1.3	33	5.3		
RUE	e P	Z	23:55:27.9	75.7	33.0	1.2	35	5.4		
HLG	e P	Z	23:55:30.3	76.0	29.3	1.1	208	6.2		
NRDL	e P	Z	23:55:34.0	76.8	30.6	1.4	27	5.2		
CLL	e P	Z	23:55:33.5	76.9	32.4	1.4	64	5.5		
BRG	e P	Z	23:55:34.3	76.9	32.9	1.4	18	5.0		
FBE	e P	Z	23:55:35.2	77.1	32.5	1.5	43	5.4		
CLZ	e P	Z	23:55:36.4	77.3	30.7	1.2	40	5.4		
IBBN	e P	Z	23:55:38.6	77.7	29.0	1.5	72	5.6		
TANN	e P	Z	23:55:39.3	77.8	31.9	1.5	13	4.8		
WERD	e P	Z	23:55:39.5	77.9	31.8	1.0	11	4.9		
MOX	e P	Z	23:55:39.7	77.9	31.4	1.4	26	5.2		
UBBA	e P	Z	23:55:41.4	78.3	30.3	1.6	18	4.8		
MANZ	e P	Z	23:55:42.2	78.3	31.6	0.8	9	4.8		
ROTZ	e P	Z	23:55:43.4	78.5	31.7	1.5	20	4.9		
BUG	e P	Z	23:55:42.7	78.6	28.6	1.0	19	5.1		
GEC2	e P	Z	23:55:44.7	78.7	32.5	0.9	8	4.8		
WET	e P	Z	23:55:45.2	78.8	32.0	1.5	33	5.2		
GRA1	e P	Z	23:55:45.4	78.9	31.0	0.7	31	5.4		
TNS	e P	Z	23:55:47.7	79.3	29.2	0.8	11	4.8		
FUR	e P	Z	23:55:52.5	80.2	30.9	1.0	26	5.1		
STU	e P	Z	23:55:52.8	80.3	29.6	1.0	18	5.0		
WLF	e P	Z	23:55:55.1	80.5	27.7	1.5	23	5.0		

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BFO e P Z 23:55:56.2 81.0 29.0 1.1 11 4.8

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/25 00:44:38.5 19.119N 120.807E 33.0N 4.7  
Philippine Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GRA1 e P Z 00:57:22.9 87.4 63.0 1.3 5 4.7

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/25 02:16:39.5 59.088N 153.010W 33.0N 4.5  
Southern Alaska, United States

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GRA1 e P Z 02:27:51.1 70.5 351.5 1.2 5 4.5

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/25 04:52: 8.4 15.685S 42.476E 33.0N 5.1  
Mozambique Channel

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GEC2 e P Z 05:03:13.3 69.4 150.3 0.8 14 5.2  
FUR e P Z 05:03:15.2 69.6 147.9 1.3 37 5.4  
WET e P Z 05:03:16.0 69.9 149.6 0.8 4 4.6  
ROTZ e P Z 05:03:21.2 70.7 149.1 1.0 11 4.9  
BFO e P Z 05:03:22.4 70.9 145.1 1.1 14 5.0  
STU e P Z 05:03:22.9 70.9 146.0 1.5 32 5.2  
MANZ e P Z 05:03:22.7 70.9 149.0 1.3 16 5.0  
GRFO e P Z 05:03:23.1 71.0 148.1 0.8 29 5.5  
GRA1 e P Z 05:03:23.0 71.0 148.1 0.8 33 5.5  
BRG e P Z 05:03:23.7 71.1 150.9 1.5 17 5.0  
TANN e P Z 05:03:24.5 71.2 149.4 1.0 20 5.2  
WERD e P Z 05:03:24.9 71.2 149.3 1.1 24 5.3  
FBE e P Z 05:03:25.0 71.3 150.4 2.0 29 5.1  
MOX e P Z 05:03:27.1 71.6 148.6 1.0 12 5.0  
CLL e P Z 05:03:27.8 71.8 150.1 1.0 17 5.1  
UBBA e P Z 05:03:31.4 72.3 147.1 0.9 10 5.0  
TNS e P Z 05:03:31.6 72.4 145.6 1.3 22 5.1  
RUE e P Z 05:03:32.9 72.5 151.0 1.3 67 5.6  
WLF e P Z 05:03:33.7 72.8 143.3 0.9 11 5.0  
CLZ e P Z 05:03:36.0 73.1 147.7 1.6 44 5.3  
NRDL e P Z 05:03:39.9 73.7 147.5 1.4 19 5.0  
BUG e P Z 05:03:40.3 73.8 144.7 1.3 30 5.2

IBBN	e P	Z	05:03:43.5	74.3	145.3	1.4	28	5.1
BSEG	e P	Z	05:03:46.1	74.9	147.9	1.5	41	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/25	10:48: 2.9	24.149S	66.957E	33.0N	4.9			SZGRF

Mauritius - Reunion region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:00:53.9	88.8	131.0	2.0	17	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/25	12:33: 5.4	43.351N	146.852E	33.0N	4.3			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:45:07.6	79.2	31.2	0.8	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/25	13:28:23.4	32.811S	10.850W	33.0N	4.7			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:40:54.9	84.8	198.5	1.1	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/25	15:10: 4.4	4.974S	102.063E	33.0N	4.8			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:23:20.9	94.3	92.6	1.2	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/26	00:51:44.9	35.122N	26.227E	33.0N	3.8			SZGRF

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 00:55:36.6	16.5	141.4	1.0	6	3.7		
WET	e P	Z 00:55:43.2	17.1	140.1	1.3	8	3.7		
FUR	e P	Z 00:55:43.0	17.1	134.2	0.8	14	4.2		

MANZ	e P	Z	00:55:53.8	18.1	140.0	1.2	5	3.5
BRG	e P	Z	00:55:54.5	18.1	145.9	0.9	7	3.8
GRA1	e P	Z	00:55:55.9	18.2	137.4	1.0	12	3.9
TANN	e P	Z	00:55:56.2	18.3	141.6	0.9	6	3.7
FBE	e P	Z	00:55:56.7	18.3	144.6	0.9	16	4.1
WERD	e P	Z	00:55:56.8	18.4	141.3	1.0	6	3.6
BFO	e P	Z	00:56:00.7	18.7	128.4	0.7	2	3.5
CLL	e P	Z	00:56:01.1	18.8	144.4	0.8	4	3.7
MOX	e P	Z	00:56:01.9	18.8	140.1	1.1	4	3.6
UBBA	e P	Z	00:56:12.2	19.6	137.0	1.8	13	3.9
GTTN	e P	Z	00:56:16.6	20.1	138.3	1.0	15	4.2
WLF	e P	Z	00:56:22.0	20.6	127.2	0.9	6	3.9
BUG	e P	Z	00:56:27.9	21.2	132.8	0.9	5	3.8

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/26 01:59:23.7 50.865N 177.669W 38.2 5.2 4.4 ML SZGRF  
 Andeanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:11:01.9	75.0	5.2	0.7	36	5.5		
	e pP	Z	02:11:12.5							
RUE	e pP	Z	02:11:19.6	76.2	7.4					
NRDL	e P	Z	02:11:09.8	76.4	5.0	0.8	25	5.4		
IBBN	e P	Z	02:11:11.8	76.7	3.5	0.9	52	5.7		
CLZ	e P	Z	02:11:13.4	77.1	5.2	0.8	55	5.8		
	e pP	Z	02:11:24.7							
GTTN	e P	Z	02:11:15.5	77.4	4.9	0.8	33	5.5		
CLL	e P	Z	02:11:14.9	77.4	6.9	1.9	122	5.6		
	e sP	Z	02:11:27.1							
	e S	N	02:21:11.6							
	e SKSac	N	02:21:26.7							
	e PS	Z	02:21:58.3							
	e SS	N	02:26:34.5							
	e LR	Z	02:37:08.5							
	e L	Z	02:47:36.5			22.0	348		4.6	
BUG	e P	Z	02:11:16.2	77.6	3.2	0.8	24	5.4		
FBE	e P	Z	02:11:17.4	77.8	7.1	1.0	36	5.5		
	e pP	Z	02:11:28.5							
BRG	e P	Z	02:11:17.2	77.8	7.5	0.9	22	5.3		
UBBA	e P	Z	02:11:18.8	78.1	4.9	1.0	14	5.0		
MOX	e P	Z	02:11:19.5	78.2	6.0	0.8	14	5.0		
WERD	e P	Z	02:11:20.8	78.3	6.4	1.3	25	5.1		
TANN	e P	Z	02:11:20.8	78.4	6.5	1.5	26	5.1		
MANZ	e P	Z	02:11:23.0	78.8	6.3	1.0	10	4.8		
ROTZ	e P	Z	02:11:24.2	79.0	6.3	1.0	14	4.9		
GRA1	e P	Z	02:11:24.9	79.2	5.7	1.0	35	5.3		
	e S	N	02:21:30.5							

	e L	Z	02:46:22.8			20.9	166		4.4
WLF	e P	Z	02:11:26.3	79.4	2.5	0.9	29	5.2	
WET	e P	Z	02:11:27.3	79.6	6.7	1.4	13	4.7	
GEC2	e P	Z	02:11:28.5	79.8	7.3	0.9	15	4.9	
BFO	e P	Z	02:11:32.5	80.7	3.8	0.8	10	4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/26	18:00:23.9	15.000S	166.800E	60.0N				NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:19:48.5	140.0	38.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/26	19:37:50.7	2.800S	79.600W	35.0N	4.8			NEIC

Near coast of Ecuador

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:51:01.1	92.7	268.8	1.1	4	4.7		
MOX	e P	Z 19:51:00.3	92.9	269.2	1.0	3	4.7		
ROTZ	e P	Z 19:51:02.9	93.3	269.6	1.3	7	4.9		
WERD	e P	Z 19:51:03.7	93.4	269.7	1.1	3	4.6		
TANN	e P	Z 19:51:03.8	93.5	269.8	1.8	15	5.1		
WET	e P	Z 19:51:05.8	93.7	270.0	0.5	2	4.7		
CLL	e P	Z 19:51:05.3	93.8	270.3	0.8	2	4.6		
FBE	e P	Z 19:51:07.2	94.0	270.5	0.5	4	5.0		
BRG	e P	Z 19:51:08.4	94.4	271.0	1.0	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/26	20:57:28.9	1.997S	14.102W	24.0				SZGRF

North of Ascension Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:07:06.5	56.1	211.0					
	e pP	Z 21:07:13.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/26	23:11:33.0	18.649N	120.306E	46.0	4.8			SZGRF

Luzon, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	23:24:17.8	87.5	63.7	0.9	4	4.8
	e pP	Z	23:24:31.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:21:17.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	02:39:36.2	52.660N	174.640E	29.5	5.6	5.8		SZGRF
Near Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z 02:51:04.4	72.6	8.4	1.6	575	6.4		
BSEG	e P	Z 02:51:04.4	72.6	9.9	0.9	85	5.9		
	e S	T 03:00:32.4							
RUE	e P	Z 02:51:10.2	73.6	12.0	1.0	43	5.4		
	e S	R 03:00:41.8							
NRDL	e P	Z 02:51:12.3	74.1	9.7	1.8	124	5.6		
	e S	R 03:00:47.9							
IBBN	e P	Z 02:51:15.0	74.5	8.2	0.9	131	6.0		
CLZ	e P	Z 02:51:16.4	74.7	9.8	0.9	66	5.6		
	e S	T 03:00:55.5							
CLL	e P	Z 02:51:16.0	74.9	11.4	2.3	46	5.2		
	e pP	Z 02:51:26.0							
	e	02:53:03.5							
	e PPP	Z 02:55:54.5							
	e S	E 03:00:56.3							
	e PPS	E 03:01:55.4							
	e SS	E 03:05:53.1							
	e SSS	E 03:09:30.0							
	e LR	Z 03:15:58.7							
	e L	Z 03:21:25.3			22.0	6323		5.9	
GTTN	e P	Z 02:51:18.0	75.0	9.6	1.7	93	5.5		
BRG	e P	Z 02:51:18.9	75.2	12.0	1.8	84	5.6		
	e S	T 03:01:00.6							
FBE	e P	Z 02:51:19.3	75.2	11.6	1.3	64	5.6		
BUG	e P	Z 02:51:19.8	75.4	7.9	1.1	62	5.6		
	e S	T 03:01:02.7							
MOX	e P	Z 02:51:22.0	75.7	10.5	1.0	26	5.3		
WERD	e P	Z 02:51:22.8	75.8	10.9	1.8	74	5.5		
TANN	e P	Z 02:51:23.0	75.8	11.0	1.9	73	5.5		
	e S	R 03:01:05.6							
MANZ	e P	Z 02:51:25.5	76.3	10.8	1.1	15	5.0		

	e S	T	03:01:12.6							
TNS	e P	Z	02:51:26.2	76.5	8.6	0.8		38	5.6	
ROTZ	e P	Z	02:51:26.9	76.5	10.9	1.9		78	5.5	
	e S	T	03:01:15.3							
GRA1	e P	Z	02:51:28.0	76.7	10.2	1.1		51	5.6	
	e pP	Z	02:51:36.5							
	e S	T	03:01:18.6							
	e SS	R	03:06:38.0							
	e L	Z	03:32:47.8			19.5		4096		5.8
WET	e P	Z	02:51:29.9	77.0	11.2	2.0		90	5.6	
WLF	e P	Z	02:51:30.8	77.2	7.1	0.9		33	5.5	
GEC2	e P	Z	02:51:30.7	77.2	11.7	1.9		80	5.5	
	e S	T	03:01:22.4							
STU	e P	Z	02:51:33.6	77.8	9.0	0.9		29	5.4	
	e S	R	03:01:29.7							
FUR	e P	Z	02:51:36.1	78.2	10.2	1.8		124	5.6	
BFO	e P	Z	02:51:36.6	78.3	8.4	1.8		121	5.6	
	e S	T	03:01:35.0							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/27 02:59: 9.3 20.460S 176.830W 592.9 mb MS ML SZGRF  
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPdf	Z 03:17:46.3	145.1	16.8					
BSEG	e PKPdf	Z 03:17:48.4	146.1	12.1					
	e PKPbc	Z 03:17:49.9							
	e	03:20:36.1							
	e PP	Z 03:21:12.0							
HLG	e PKPbc	Z 03:17:50.4	146.1	7.9					
RUE	e PKPdf	Z 03:17:50.1	146.9	18.4					
	e PKPbc	Z 03:17:52.3							
	e PKPab	Z 03:17:54.6							
	e pPKPbc	Z 03:20:08.0							
	e PP	Z 03:21:16.8							
NRDL	e PKPdf	Z 03:17:50.9	147.5	12.2					
	e PKPbc	Z 03:17:54.1							
	e PKPab	Z 03:17:56.8							
	e pPKPbc	Z 03:20:09.9							
	e	03:20:39.1							
	e PP	Z 03:21:21.4							
IBBN	e PKPdf	Z 03:17:51.7	148.0	8.1					
	e PKPbc	Z 03:17:55.4							
	e PKPab	Z 03:17:59.2							
	e pPKPbc	Z 03:20:12.2							
	e	03:20:39.9							
	e PP	Z 03:21:23.9							



CLZ	e PKPdf	Z	03:17:52.1	148.1	12.9		
	e PKPbc	Z	03:17:56.0				
	e PKPab	Z	03:17:59.7				
	e pPKPbc	Z	03:20:11.2				
	e PP	Z	03:21:24.7				
CLL	i PKPdf	Z	03:17:51.7	148.2	17.7	1.5	258
	i PKPbc	- Z	03:17:55.8			0.9	1416
	e PKPab	Z	03:17:59.6				
	e pPKPbc	Z	03:20:10.6				
	e SKPbc	Z	03:20:40.3				
BRG	e PKPdf	Z	03:17:52.3	148.4	19.5		
	e PKPbc	Z	03:17:56.4				
	e PKPab	Z	03:18:00.6				
	e pPKPbc	Z	03:20:12.2				
	e		03:20:41.0				
GTTN	e PKPdf	Z	03:17:52.3	148.5	12.2		
	e PKPbc	Z	03:17:56.7				
	e PKPab	Z	03:18:01.0				
	e PP	Z	03:21:26.5				
FBE	e PKPdf	Z	03:17:52.4	148.5	18.5		
	e PKPbc	Z	03:17:56.9				
	e PKPab	Z	03:18:01.2				
	e pPKPbc	Z	03:20:12.5				
BUG	e PKPdf	Z	03:17:53.2	148.9	7.4		
	e PKPbc	Z	03:17:57.5				
	e PKPab	Z	03:18:02.6				
MOX	e PKPdf	Z	03:17:53.3	149.1	15.5		
	e PKPbc	Z	03:17:58.2				
	e PKPab	Z	03:18:03.4				
	e		03:20:42.1				
WERD	e PKPdf	Z	03:17:53.5	149.2	16.9		
	e PKPbc	Z	03:17:58.4				
	e PKPab	Z	03:18:03.8				
	e PP	Z	03:21:29.3				
TANN	e PKPdf	Z	03:17:53.5	149.2	17.2		
	e PKPbc	Z	03:17:58.5				
	e PKPab	Z	03:18:03.9				
	e pPKPbc	Z	03:20:13.6				
	e PP	Z	03:21:30.0				
MANZ	e PKPdf	Z	03:17:54.5	149.6	16.7		
	e PKPbc	Z	03:17:59.9				
	e PKPab	Z	03:18:05.8				
ROTZ	e PKPdf	Z	03:17:54.5	149.8	17.0		
	e PKPbc	Z	03:18:00.2				
	e PKPab	Z	03:18:06.6				
	e PP	Z	03:21:33.3				
TNS	e PKPdf	Z	03:17:55.0	149.9	9.9		
	e PKPbc	Z	03:18:00.6				
	e PKPab	Z	03:18:07.4				

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GRA1	e	PKPdf	Z	03:17:54.9	150.1	15.3
	e	PKPbc	Z	03:18:00.8		
	e	PKPab	Z	03:18:07.9		
	e	PP	Z	03:21:35.5		
WET	e	PKPdf	Z	03:17:55.1	150.3	18.6
	e	PKPbc	Z	03:18:01.0		
	e	PKPab	Z	03:18:08.7		
GEC2	e	PKPdf	Z	03:17:55.3	150.4	20.3
	e	PKPbc	Z	03:18:01.2		
	e	PKPab	Z	03:18:08.9		
	e	PP	Z	03:21:36.5		
WLF	e	PKPdf	Z	03:17:56.4	150.7	5.7
	e	PKPbc	Z	03:18:02.9		
	e	PKPab	Z	03:18:11.1		
	e	PP	Z	03:21:38.8		
STU	e	PKPdf	Z	03:17:57.1	151.3	11.8
	e	PKPbc	Z	03:18:03.6		
	e	PKPab	Z	03:18:12.9		
FUR	e	PKPdf	Z	03:17:56.8	151.5	16.1
	e	PKPbc	Z	03:18:03.9		
	e	PKPab	Z	03:18:13.9		
BFO	e	PKPdf	Z	03:17:57.2	151.8	10.3
	e	PKPbc	Z	03:18:04.6		
	e	PKPab	Z	03:18:14.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	08:36: 9.0							SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e	PKPbc	Z	08:55:57.7					
GEC2	e	PKPbc	Z	08:55:53.5					
GRA1	e	PKPbc	Z	08:55:53.0					
TNS	e	PKPbc	Z	08:55:52.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	09:15:19.8	60.842S	152.164E	10.0G		5.3		NEIC
West of Macquarie Island								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	L	Z	10:54:25.9	155.6	132.0	20.0	428	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/06/27 11:24:36.3 20.865S 68.293W 121.0G  
Chile-Bolivia border region

NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e SP	Z	11:50:27.1	96.3	244.9					
BFO	e SKSac	R	11:48:26.2	97.0	246.3					
	e SP	Z	11:50:35.9							
BUG	e SP	Z	11:50:42.0	97.7	245.9					
STU	e SP	Z	11:50:42.0	97.7	247.0					
TNS	e SKSac	R	11:48:32.1	97.9	246.7					
	e SP	Z	11:50:44.6							
IBBN	e SP	Z	11:50:49.0	98.3	246.4					
FUR	e SP	Z	11:50:49.9	98.8	248.4					
HLG	e SP	Z	11:50:55.1	99.1	246.8					
GRFO	e SP	Z	11:51:02.1	99.3	248.6					
GRA1	e SKSac	R	11:48:40.8	99.3	248.6					
	e SP	Z	11:51:00.4							
CLZ	e SP	Z	11:51:00.4	99.6	248.3					
NRDL	e SKSac	R	11:48:42.8	99.7	248.2					
	e SP	Z	11:51:00.4							
MOX	e SKSac	R	11:48:43.9	99.9	249.0					
	e SP	Z	11:51:05.6							
ROTZ	e SKSac	R	11:48:41.6	99.9	249.3					
	e SP	Z	11:51:05.6							
MANZ	e SKSac	R	11:48:44.1	99.9	249.3					
	e SP	Z	11:51:09.1							
WET	e SKSac	R	11:48:42.8	100.1	249.7					
	e SP	Z	11:51:08.3							
TANN	e SP	Z	11:51:12.6	100.3	249.6					
BSEG	e SKSac	R	11:48:44.5	100.3	248.6					
	e SP	Z	11:51:10.9							
GEC2	e SKSac	R	11:48:41.2	100.5	250.2					
	e SP	Z	11:51:10.0							
CLL	e SKSac	R	11:48:42.4	100.9	250.2					
	e SP	Z	11:51:17.0							
BRG	e SKSac	R	11:48:48.3	101.3	250.8					
	e SP	Z	11:51:22.3							
RUE	e SP	Z	11:51:24.9	101.8	251.0					
RGN	e SP	Z	11:51:26.7	102.2	251.0					

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/06/27 13:03:21.0 15.790N 92.140W 29.5 5.7 5.8  
Mexico-Guatemala border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e P	Z	13:15:44.6	83.0	287.3	1.3	476	6.6		
	e S	R	13:26:01.9							

WLF	e P	Z	13:15:46.2	83.2	286.5	1.9	206	6.0	
	e S	R	13:26:04.8						
BUG	e P	Z	13:15:46.7	83.4	287.1	2.1	272	6.1	
	e S	R	13:26:06.5						
IBBN	e P	Z	13:15:46.8	83.4	287.4	2.1	295	6.1	
	e S	R	13:26:12.4						
BSEG	e P	Z	13:15:51.5	84.4	289.2	1.2	69	5.8	
	e S	R	13:26:16.3						
TNS	e P	Z	13:15:52.2	84.5	288.1	0.9	67	5.9	
	e S	R	13:26:17.3						
NRDL	e P	Z	13:15:53.5	84.7	289.2	2.0	109	5.6	
	e S	R	13:26:19.8						
GTTN	e P	Z	13:15:54.6	85.0	289.2	1.0	42	5.5	
BFO	e P	Z	13:15:54.3	85.0	288.2	2.7	178	5.7	
	e S	T	13:26:22.4						
CLZ	e P	Z	13:15:55.5	85.1	289.5	1.5	75	5.6	
	e S	R	13:26:23.4						
STU	e P	Z	13:15:56.6	85.4	288.8	1.0	49	5.6	
	e S	R	13:26:26.3						
MOX	e P	Z	13:16:00.8	86.3	290.5	2.8	231	5.8	
	e S	R	13:26:34.6						
GRFO	e S	R	13:26:35.5	86.4	290.3				
GRA1	e P	Z	13:16:01.7	86.4	290.3	2.4	194	5.8	
	e pP	Z	13:16:10.3						
	e PP	Z	13:19:28.6						
	e S	R	13:26:37.2						
	e L	Z	13:54:57.3			21.0	4246		5.8
WERD	e P	Z	13:16:03.1	86.7	291.0	2.5	95	5.7	
MANZ	e P	Z	13:16:03.7	86.8	290.9	2.6	132	5.8	
	e S	R	13:26:39.7						
CLL	e P	Z	13:16:03.9	86.8	291.5	1.2	22	5.3	
	e sP	Z	13:16:13.8						
	e PP	Z	13:19:30.7						
	e SKSac	N	13:26:22.6						
	e SKKSac	N	13:26:38.2						
	e S	E	13:26:46.2						
	e sS	E	13:27:01.5						
	e PPS	E	13:28:21.0						
	e SS	E	13:33:00.0						
	e SSS	E	13:36:37.1						
	e LR	Z	13:45:15.7						
	e L	Z	13:55:45.0			20.0	4454		5.9
TANN	e P	Z	13:16:03.8	86.8	291.2	1.5	34	5.5	
	e S	R	13:26:40.2						
RUE	e S	R	13:26:40.3	86.8	292.1				
FUR	e S	R	13:26:46.3	86.9	290.4				
ROTZ	e P	Z	13:16:04.6	86.9	291.0	1.6	48	5.6	
	e S	R	13:26:41.0						
FBE	e P	Z	13:16:05.3	87.2	291.8	2.2	115	5.8	

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BRG	e P	Z	13:16:06.7	87.5	292.3	1.0	13	5.2
	e S	R	13:26:48.7					
WET	e P	Z	13:16:07.3	87.6	291.5	1.8	51	5.6
	e S	R	13:26:51.1					
GEC2	e P	Z	13:16:09.7	88.2	292.2	1.0	10	5.0
	e S	R	13:26:53.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	14:03:49.1	18.389S	176.863W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:23:19.3	144.0	11.6					
NRDL	e PKPbc	Z	14:23:23.5	145.5	11.7					
CLZ	e PKPbc	Z	14:23:25.8	146.1	12.4					
	e PKPab	Z	14:23:27.2							
CLL	e PKPbc	Z	14:23:25.6	146.2	17.0					
BRG	e PKPbc	Z	14:23:26.3	146.4	18.8					
	e PKPab	Z	14:23:28.3							
GTTN	e PKPbc	Z	14:23:26.7	146.4	11.8					
FBE	e PKPbc	Z	14:23:26.9	146.5	17.7					
	e PKPab	Z	14:23:28.8							
MOX	e PKPbc	Z	14:23:28.3	147.0	14.9					
	e PKPab	Z	14:23:30.6							
TANN	e PKPbc	Z	14:23:28.5	147.1	16.5					
	e PKPab	Z	14:23:31.2							
MANZ	e PKPbc	Z	14:23:30.1	147.6	16.0					
ROTZ	e PKPbc	Z	14:23:30.5	147.8	16.3					
TNS	e PKPbc	Z	14:23:30.9	147.9	9.5					
	e PKPab	Z	14:23:34.5							
GRA1	e PKPbc	Z	14:23:30.8	148.0	14.6					
	e PKPab	Z	14:23:35.3							
WET	e PKPab	Z	14:23:36.0	148.3	17.8					
GEC2	e PKPbc	Z	14:23:31.7	148.4	19.4					
WLF	e PKPbc	Z	14:23:33.3	148.6	5.5					
STU	e PKPbc	Z	14:23:34.5	149.2	11.3					
FUR	e PKPbc	Z	14:23:34.7	149.5	15.3					
BFO	e PKPbc	Z	14:23:35.1	149.8	9.8					
	e PKPab	Z	14:23:42.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	15:02:15.2	8.600N	93.630E	16.6	5.1			SZGRF

Nicobar Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	15:14:06.8	76.8	92.5	1.1	15	5.0
GEC2	e P	Z	15:14:07.2	76.9	91.9	0.9	16	5.1
RUE	e P	Z	15:14:07.5	77.0	92.8	1.2	61	5.6
FBE	e P	Z	15:14:09.2	77.2	92.1	1.0	23	5.3
CLL	e P	Z	15:14:09.7	77.4	91.9	1.4	16	5.0
WET	e P	Z	15:14:10.3	77.5	91.3	1.0	11	4.9
TANN	e P	Z	15:14:11.9	77.8	91.3	1.5	12	4.8
ROTZ	e P	Z	15:14:13.4	77.9	90.9	1.1	16	5.1
MANZ	e P	Z	15:14:13.7	78.0	90.9	1.0	15	5.1
MOX	e P	Z	15:14:14.9	78.3	90.7	1.8	23	5.0
GRA1	e P	Z	15:14:16.6	78.5	90.2	1.2	21	5.0
	e pP	Z	15:14:21.4					
CLZ	e P	Z	15:14:19.1	79.1	89.9	1.0	19	5.1
BSEG	e P	Z	15:14:19.7	79.1	90.3	1.0	28	5.2
NRDL	e P	Z	15:14:20.5	79.2	89.9	1.6	37	5.2
GTTN	e P	Z	15:14:20.6	79.3	89.6	1.1	14	4.9
TNS	e P	Z	15:14:26.0	80.3	88.1	1.0	8	4.6
BFO	e P	Z	15:14:26.1	80.5	87.7	1.2	11	4.8
IBBN	e P	Z	15:14:28.1	80.7	88.0	0.6	27	5.4
BUG	e P	Z	15:14:29.7	81.0	87.4	1.4	38	5.2
WLF	e P	Z	15:14:34.6	81.8	86.3	1.4	20	5.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/27 15:12:39.5 54.303N 159.601W 33.1 4.7  
 South of Alaska SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:24:22.2	75.7	354.5	0.9	5	4.7		
	e pP	Z 15:24:31.6							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/27 15:53:1.5 14.783S 69.951W 200.9 5.1  
 Peru-Bolivia border region SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:06:24.0	95.7	253.8	1.6	11	5.1		
	e pP	Z 16:07:13.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/06/27 17:16:55.0 51.675N 169.596W 33.0N 4.7  
 Fox Islands, Aleutian Islands, United States SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLZ	e P	Z	17:28:41.4	76.5	360.0	0.9	9	4.9
GTTN	e P	Z	17:28:43.5	76.8	359.7	0.9	9	4.9
CLL	e P	Z	17:28:43.6	77.0	1.7	1.1	6	4.7
BRG	e P	Z	17:28:46.2	77.4	2.2	0.8	5	4.7
MOX	e P	Z	17:28:47.8	77.7	0.8	0.9	6	4.7
TNS	e P	Z	17:28:50.4	78.1	358.8	1.1	10	4.8
MANZ	e P	Z	17:28:51.7	78.3	1.1	0.2	4	5.0
ROTZ	e P	Z	17:28:53.2	78.5	1.1	0.7	2	4.3
GRA1	e P	Z	17:28:54.0	78.6	0.5	1.0	12	4.9
WET	e P	Z	17:28:56.3	79.2	1.6	1.1	3	4.2
GEC2	e P	Z	17:28:58.0	79.4	2.1	0.8	4	4.4
BFO	e P	Z	17:29:01.2	80.0	358.7	0.8	3	4.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	17:29:46.4	20.980S	170.550E	33.0G				SZGRF
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 17:49:19.3	145.0	38.4					
FBE	e PKPbc	Z 17:49:18.9	145.1	39.3					
CLZ	e PKPbc	Z 17:49:20.6	145.5	34.0					
TANN	e PKPbc	Z 17:49:21.8	145.9	38.4					
GTTN	e PKPbc	Z 17:49:22.1	145.9	33.6					
WERD	e PKPbc	Z 17:49:22.0	145.9	38.1					
IBBN	e PKPbc	Z 17:49:22.0	146.0	29.6					
MOX	e PKPbc	Z 17:49:21.7	146.0	36.9					
MANZ	e PKPbc	Z 17:49:23.5	146.4	38.3					
ROTZ	e PKPbc	Z 17:49:24.1	146.5	38.6					
GEC2	e PKPbc	Z 17:49:24.0	146.6	41.8					
WET	e PKPbc	Z 17:49:24.5	146.7	40.2					
BUG	e PKPbc	Z 17:49:24.4	146.9	29.4					
GRA1	e PKPbc	Z 17:49:25.9	146.9	37.2					
TNS	e PKPbc	Z 17:49:27.2	147.5	32.3					
FUR	e PKPbc	Z 17:49:29.3	148.1	38.7					
WLF	e PKPbc	Z 17:49:31.2	148.8	29.0					
BFO	e PKPbc	Z 17:49:31.6	149.2	33.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/27	18:07:20.6	6.630N	93.290E	30.3	5.8	5.9		SZGRF
Nicobar Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 18:19:17.4	78.1	94.1	1.4	132	5.9		
GEC2	e P	Z 18:19:17.5	78.2	93.5	1.3	196	6.1		
RUE	e P	Z 18:19:18.3	78.4	94.3	1.3	237	6.2		

FBE	e P	Z	18:19:19.5	78.5	93.6	1.3	186	6.0
WET	e P	Z	18:19:20.6	78.7	92.9	1.6	207	5.9
CLL	e P	Z	18:19:22.4	78.8	93.4	2.2	265	5.9
	e S	N	18:29:16.1					
	e ScS	N	18:29:44.4					
	e PPS	Z	18:30:18.2					
	e SS	E	18:34:35.4					
	e SSS	N	18:37:55.2					
	e L	Z	19:01:49.5			18.0	6619	6.0
RGN	e P	Z	18:19:20.8	78.8	94.3	1.3	141	5.8
TANN	e P	Z	18:19:22.3	79.1	92.8	1.4	80	5.5
WERD	e P	Z	18:19:22.7	79.2	92.7	1.4	87	5.6
ROTZ	e P	Z	18:19:23.5	79.2	92.5	1.3	141	5.8
MANZ	e P	Z	18:19:24.0	79.3	92.5	1.4	215	6.0
MOX	e P	Z	18:19:25.3	79.6	92.2	1.5	143	5.7
FUR	e P	Z	18:19:25.6	79.7	91.5	1.5	289	6.0
GRA1	e P	Z	18:19:26.9	79.8	91.7	1.2	199	5.9
	e pP	Z	18:19:35.7					
	e S	T	18:29:29.6					
	e SS	T	18:34:41.8					
	e L	Z	19:01:08.7			18.7	4785	5.9
GRFO	e P	Z	18:19:26.9	79.8	91.7	1.2	186	5.9
CLZ	e P	Z	18:19:29.6	80.4	91.5	1.3	100	5.6
BSEG	e P	Z	18:19:30.2	80.5	91.8	1.3	194	6.0
NRDL	e P	Z	18:19:31.0	80.6	91.3	1.5	212	6.0
GTTN	e P	Z	18:19:30.9	80.7	91.1	1.3	84	5.6
STU	e P	Z	18:19:33.4	81.1	90.0	1.4	139	5.8
TNS	e P	Z	18:19:36.1	81.6	89.7	1.3	89	5.7
BFO	e P	Z	18:19:36.1	81.7	89.3	1.5	114	5.8
IBBN	e P	Z	18:19:38.3	82.0	89.5	1.5	161	5.9
BUG	e P	Z	18:19:39.9	82.3	89.0	1.5	156	5.9
WLF	e P	Z	18:19:44.2	83.1	87.9	1.7	182	6.0

Date 2006/06/27 Origin Time 19:12:53.2 Lat 20.537S Long 178.037W Depth 654.2 mb Ms ML Source SZGRF  
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z 19:31:18.5	144.9	18.7					
BSEG	e PKPbc	Z 19:31:21.4	146.0	14.1					
HLG	e PKPbc	Z 19:31:21.5	146.1	10.0					
RUE	e PKPbc	Z 19:31:23.1	146.8	20.5					
	e PKPab	Z 19:31:27.1							
NRDL	e PKPbc	Z 19:31:25.0	147.4	14.3					
	e PKPab	Z 19:31:29.8							
IBBN	e PKPdf	Z 19:31:22.8	147.9	10.3					
	e PKPbc	Z 19:31:26.4							



	e PKPab	Z	19:31:33.3		
CLZ	e PKPdf	Z	19:31:22.4	148.0	15.0
	e PKPbc	Z	19:31:26.8		
	e PKPab	Z	19:31:32.6		
CLL	e PKPdf	Z	19:31:22.1	148.0	19.8
	e PKPbc	Z	19:31:26.5		
	e PKPab	Z	19:31:32.1		
BRG	e PKPdf	Z	19:31:22.4	148.2	21.7
	e PKPbc	Z	19:31:27.0		
	e PKPab	Z	19:31:33.0		
	e pPKPbc	Z	19:33:53.8		
FBE	e PKPdf	Z	19:31:23.1	148.3	20.6
	e PKPbc	Z	19:31:27.6		
	e PKPab	Z	19:31:33.6		
GTTN	e PKPbc	Z	19:31:27.4	148.4	14.4
	e PKPab	Z	19:31:33.9		
BUG	e PKPab	Z	19:31:35.3	148.8	9.6
MOX	e PKPdf	Z	19:31:23.6	148.9	17.7
	e PKPbc	Z	19:31:28.7		
	e PKPab	Z	19:31:36.1		
TANN	e PKPdf	Z	19:31:23.6	149.0	19.3
	e PKPbc	Z	19:31:29.0		
	e PKPab	Z	19:31:36.2		
WERD	e PKPdf	Z	19:31:23.6	149.0	19.1
	e PKPbc	Z	19:31:29.0		
	e PKPab	Z	19:31:36.4		
ROTZ	e PKPdf	Z	19:31:24.8	149.7	19.2
	e PKPbc	Z	19:31:30.5		
	e PKPab	Z	19:31:39.4		
	e pPKPbc	Z	19:33:57.8		
TNS	e PKPdf	Z	19:31:25.4	149.9	12.2
	e PKPbc	Z	19:31:31.1		
	e PKPab	Z	19:31:40.2		
GRA1	e PKPdf	Z	19:31:25.3	149.9	17.5
	e PKPbc	Z	19:31:31.3		
	e PKPab	Z	19:31:40.8		
WET	e PKPdf	Z	19:31:24.9	150.1	20.8
	e PKPbc	Z	19:31:31.3		
	e PKPab	Z	19:31:41.0		
	e pPKPbc	Z	19:33:59.4		
GEC2	e PKPdf	Z	19:31:25.2	150.2	22.5
	e PKPbc	Z	19:31:31.4		
	e PKPab	Z	19:31:41.1		
	e pPKPbc	Z	19:33:59.7		
WLF	e PKPdf	Z	19:31:27.1	150.7	8.0
	e PKPbc	Z	19:31:33.6		
	e PKPab	Z	19:31:43.9		
STU	e PKPbc	Z	19:31:34.1	151.2	14.2
	e PKPab	Z	19:31:45.5		

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FUR	e PKPdf	Z	19:31:27.2	151.4	18.4
	e PKPbc	Z	19:31:34.3		
	e PKPab	Z	19:31:46.6		
BFO	e PKPdf	Z	19:31:27.9	151.7	12.7
	e PKPbc	Z	19:31:35.0		
	e PKPab	Z	19:31:47.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	02:36:25.1	17.720S	177.910W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	02:55:58.9	145.3	13.9					
CLL	e PKPbc	Z	02:55:59.5	145.3	18.5					
MOX	e PKPbc	Z	02:56:01.8	146.2	16.5					
WERD	e PKPbc	Z	02:56:01.5	146.3	17.7					
TANN	e PKPbc	Z	02:56:01.6	146.3	18.0					
ROTZ	e PKPbc	Z	02:56:03.9	146.9	17.9					
TNS	e PKPbc	Z	02:56:03.9	147.1	11.2					
GRA1	e PKPbc	Z	02:56:04.8	147.2	16.2					
WET	e PKPbc	Z	02:56:05.0	147.4	19.3					
GEC2	e PKPbc	Z	02:56:05.5	147.5	20.9					
WLF	e PKPbc	Z	02:56:06.7	147.9	7.3					
STU	e PKPbc	Z	02:56:08.5	148.4	13.0					
FUR	e PKPbc	Z	02:56:09.0	148.6	17.0					
BFO	e PKPbc	Z	02:56:09.6	149.0	11.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	13:23:11.5	16.905S	179.916W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	13:42:41.4	144.1	21.4					
CLZ	e PKPbc	Z	13:42:41.6	144.1	17.0					
BRG	e PKPbc	Z	13:42:42.5	144.3	23.1					
FBE	e PKPbc	Z	13:42:42.6	144.4	22.1					
MOX	e PKPbc	Z	13:42:45.2	145.0	19.5					
TANN	e PKPbc	Z	13:42:45.6	145.0	21.0					
WERD	e PKPbc	Z	13:42:46.2	145.1	20.7					
UBBA	e PKPbc	Z	13:42:47.1	145.2	16.8					
ROTZ	e PKPbc	Z	13:42:46.8	145.7	20.9					
GRA1	e PKPbc	Z	13:42:47.4	146.0	19.3					
WET	e PKPbc	Z	13:42:49.3	146.1	22.3					
GEC2	e PKPbc	Z	13:42:48.7	146.2	23.9					
BFO	e PKPbc	Z	13:42:53.4	147.9	14.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:19:01.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	17:18:0.5	44.260N	149.762E	33.0N	4.8			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 17:29:51.8	77.4	30.2	0.5	9	5.1		
FBE	e P	Z 17:29:53.3	77.6	30.4	0.7	6	4.8		
CLZ	e P	Z 17:29:54.1	77.7	28.5					
ROTZ	e P	Z 17:30:01.4	79.0	29.5	1.1	5	4.5		
WET	e P	Z 17:30:03.0	79.3	29.9	1.1	8	4.6		
GRA1	e P	Z 17:30:03.3	79.3	28.8	0.9	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	17:44:10.7	0.788N	97.016E	33.0N	4.9			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 17:56:42.9	85.0	94.5	1.1	6	4.8		
BRG	e P	Z 17:56:42.8	85.0	94.9	1.0	6	4.8		
WET	e P	Z 17:56:45.8	85.6	93.9	0.8	6	4.7		
CLL	e P	Z 17:56:45.7	85.6	94.2	1.4	9	4.7		
WERD	e P	Z 17:56:47.6	86.0	93.6	0.8	3	4.5		
ROTZ	e P	Z 17:56:48.6	86.0	93.5	0.7	5	4.7		
MANZ	e P	Z 17:56:48.9	86.1	93.4	1.0	8	4.8		
GRA1	e P	Z 17:56:51.5	86.7	92.7	0.9	9	4.9		
CLZ	e P	Z 17:56:54.3	87.3	92.2	0.7	11	5.1		
BSEG	e P	Z 17:56:54.6	87.4	92.2	0.8	11	5.0		
NRDL	e P	Z 17:56:55.1	87.5	92.0	1.0	17	5.1		
UBBA	e P	Z 17:56:55.1	87.5	91.8	1.9	26	5.2		
TNS	e P	Z 17:57:00.0	88.5	90.6	1.0	14	5.3		
BFO	e P	Z 17:56:59.6	88.5	90.5	0.8	5	4.8		
IBBN	e P	Z 17:57:02.2	88.9	90.1	0.7	12	5.2		
WLF	e P	Z 17:57:07.2	90.0	88.8	0.9	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	21:02:10.6	26.740N	55.980E	33.0N	5.5	5.3		SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	21:09:37.2	39.3	108.5	1.2	66	5.2		
BRG	e P	Z	21:09:41.4	39.9	111.1	1.0	108	5.5		
WET	e P	Z	21:09:41.9	39.9	108.0	1.2	76	5.3		
FBE	e P	Z	21:09:44.9	40.2	110.5	1.2	83	5.2		
ROTZ	e P	Z	21:09:47.8	40.5	108.1	1.0	101	5.4		
RUE	e P	Z	21:09:47.6	40.6	112.7	1.5	271	5.7		
	e S	R	21:15:56.2							
CLL	e P	Z	21:09:47.6	40.6	110.6	1.3	230	5.6		
	e S	R	21:15:53.2							
TANN	e P	Z	21:09:47.7	40.6	109.1	1.4	50	5.0		
FUR	e P	Z	21:09:48.1	40.7	105.4	1.0	172	5.6		
MANZ	e P	Z	21:09:48.9	40.7	108.2	1.6	148	5.4		
	e S	R	21:15:59.7							
WERD	e P	Z	21:09:48.4	40.7	108.9	1.4	53	5.0		
GRA1	e P	Z	21:09:52.5	41.1	107.0	1.0	212	5.7		
	e PP	Z	21:11:33.7							
	e S	R	21:16:03.0							
	e L	Z	21:27:41.4			27.9	6110		5.3	
MOX	e P	Z	21:09:52.6	41.2	108.5	1.2	52	5.1		
RGN	e P	Z	21:09:55.8	41.6	114.4	1.3	498	6.0		
UBBA	e P	Z	21:10:01.3	42.2	107.0	1.9	190	5.5		
	e S	R	21:16:20.7							
CLZ	e P	Z	21:10:02.5	42.3	108.5	1.0	327	6.0		
	e S	R	21:16:23.1							
GTTN	e P	Z	21:10:03.4	42.4	107.8	1.2	116	5.5		
BFO	e P	Z	21:10:03.5	42.6	102.8	1.2	54	5.2		
NRDL	e P	Z	21:10:05.2	42.6	108.9	1.4	454	6.0		
TNS	e P	Z	21:10:07.9	43.0	104.9	1.1	145	5.6		
BSEG	e P	Z	21:10:08.1	43.0	110.6	1.3	174	5.6		
IBBN	e P	Z	21:10:16.1	44.0	106.4	1.4	319	5.9		
BUG	e P	Z	21:10:16.6	44.0	105.0	1.3	358	5.9		
WLF	e P	Z	21:10:17.8	44.3	102.2	0.9	94	5.5		
	e S	R	21:16:52.5							
HLG	e P	Z	21:10:19.8	44.4	108.3	1.2	311	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	21:26: 3.7	27.479N	56.833E	33.0N	4.2			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:33:44.8	41.1	105.4	0.8	4	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/28	21:36:49.0	27.657N	55.803E	33.0N	4.0			SZGRF
Southern Iran								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:44:23.8	40.4	106.2	1.1	5	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/29	08:07:57.1	82.272N	26.331E	33.0N	4.3			SZGRF
North of Svalbard								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:14:28.5	32.9	3.7	0.9	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/29	14:04:49.2	20.860N	122.614E	44.4	4.8			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 14:17:13.5	83.6	62.6	1.0	36	5.6		
RUE	e P	Z 14:17:17.7	84.3	62.7					
BRG	e P	Z 14:17:20.2	85.0	62.7	1.0	14	5.1		
	e pP	Z 14:17:33.3							
FBE	e P	Z 14:17:21.8	85.3	62.3	1.2	16	5.1		
	e pP	Z 14:17:34.8							
CLL	e P	Z 14:17:21.7	85.3	62.0	0.9	8	5.0		
	e pP	Z 14:17:34.6							
BSEG	e P	Z 14:17:22.5	85.5	60.1	0.5	5	4.9		
TANN	e P	Z 14:17:25.3	86.0	61.6	0.7	2	4.3		
GEC2	e P	Z 14:17:25.1	86.1	62.4	0.9	4	4.6		
	e pP	Z 14:17:38.0							
NRDL	e P	Z 14:17:25.9	86.3	59.9	1.1	6	4.6		
MOX	e P	Z 14:17:27.2	86.4	60.9	0.7	4	4.6		
CLZ	e P	Z 14:17:28.4	86.5	60.1	0.8	5	4.7		
ROTZ	e P	Z 14:17:27.6	86.5	61.3	1.0	4	4.5		
GRA1	e P	Z 14:17:30.4	87.1	60.6	1.0	5	4.6		
BFO	e P	Z 14:17:41.0	89.4	58.4	0.8	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/29	16:15:50.2	17.464S	174.910W	33.0N				SZGRF
Tonga Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	16:35:21.9	144.7	8.3					
CLZ	e PKPbc	Z	16:35:24.4	145.4	8.9					
CLL	e PKPbc	Z	16:35:25.2	145.6	13.4					
BRG	e PKPbc	Z	16:35:25.5	145.9	15.2					
FBE	e PKPbc	Z	16:35:25.8	145.9	14.2					
TANN	e PKPbc	Z	16:35:27.6	146.5	12.8					
MANZ	e PKPbc	Z	16:35:28.9	147.0	12.4					
ROTZ	e PKPbc	Z	16:35:29.8	147.2	12.6					
GRA1	e PKPbc	Z	16:35:30.2	147.4	10.9					
WET	e PKPbc	Z	16:35:30.7	147.7	14.0					
GEC2	e PKPbc	Z	16:35:31.0	147.8	15.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/29	16:41:59.4	27.923N	55.708E	33.0N	4.1			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:49:32.2	40.1	106.0	0.8	4	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/29	16:39:55.9	48.312N	151.265E	33.0N	5.0	4.2		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	16:51:20.2	72.6	26.1	1.0	13	5.0		
NRDL	e P	Z	16:51:27.8	73.9	25.7	0.9	10	4.9		
CLL	e P	Z	16:51:28.9	74.2	27.4	0.7	20	5.2		
BRG	e P	Z	16:51:29.7	74.3	27.9	1.0	9	4.7		
FBE	e P	Z	16:51:30.7	74.4	27.6	1.1	18	5.0		
CLZ	e P	Z	16:51:31.3	74.4	25.8	0.8	20	5.2		
IBBN	e P	Z	16:51:32.2	74.7	24.2	0.9	28	5.3		
GTTN	e P	Z	16:51:33.1	74.8	25.5	0.5	10	5.1		
TANN	e P	Z	16:51:34.7	75.1	27.0	1.0	6	4.5		
WERD	e P	Z	16:51:34.9	75.1	26.9	1.1	9	4.7		
MOX	e P	Z	16:51:35.0	75.2	26.5	1.0	15	5.0		
UBBA	e P	Z	16:51:36.8	75.5	25.5					
BUG	e P	Z	16:51:37.3	75.6	23.8					
MANZ	e P	Z	16:51:37.7	75.6	26.7	1.0	11	4.9		
ROTZ	e P	Z	16:51:38.9	75.8	26.7	1.0	14	5.0		
GRA1	e P	Z	16:51:40.9	76.1	26.1	0.8	27	5.4		
	e L	Z	17:29:54.9			19.8	114		4.2	
WET	e P	Z	16:51:40.9	76.1	27.1	0.9	15	5.1		
GEC2	e P	Z	16:51:40.5	76.2	27.5	0.9	6	4.7		

TNS	e P	Z	16:51:42.1	76.4	24.4	0.7	15	5.2
FUR	e P	Z	16:51:48.2	77.5	26.0	0.5	21	5.5
STU	e P	Z	16:51:48.6	77.5	24.8	0.9	20	5.3
BFO	e P	Z	16:51:51.7	78.2	24.2	0.9	12	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/29	20:05:17.3	53.470N	37.110W	22.4	4.6	3.5		SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e P	Z 20:11:18.9	29.5	294.7	1.0	11	4.6		
	e pP	Z 20:11:24.9							
GRA1	e P	Z 20:11:20.6	29.7	296.1	1.0	10	4.6		
	e L	Z 20:19:41.7			33.3	205		3.5	
WERD	e P	Z 20:11:23.2	30.0	295.2	1.2	12	4.6		
	e pP	Z 20:11:29.1							
CLL	e P	Z 20:11:23.7	30.0	294.1	1.3	20	4.8		
MANZ	e P	Z 20:11:23.7	30.1	295.9	1.2	7	4.4		
TANN	e P	Z 20:11:24.2	30.1	295.3	1.2	14	4.7		
	e pP	Z 20:11:30.1							
ROTZ	e P	Z 20:11:25.4	30.2	296.3	1.0	5	4.3		
	e pP	Z 20:11:31.1							
FBE	e P	Z 20:11:26.8	30.4	294.8	1.1	15	4.8		
BRG	e P	Z 20:11:30.2	30.7	295.1	1.0	9	4.6		
	e pP	Z 20:11:35.8							
WET	e P	Z 20:11:31.4	30.9	297.4	1.0	3	4.2		
GEC2	e P	Z 20:11:36.7	31.5	298.0	1.2	10	4.6		
	e pP	Z 20:11:42.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/30	01:07:26.7	21.053S	34.930E	33.0N	5.2			SZGRF

Mozambique

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 01:18:49.8	72.4	156.9	1.5	96	5.7		
GEC2	e P	Z 01:18:49.9	72.4	159.2	1.7	36	5.2		
WET	e P	Z 01:18:52.5	72.9	158.5	1.5	17	4.9		
BFO	e P	Z 01:18:55.2	73.4	154.1	2.1	35	5.1		
STU	e P	Z 01:18:56.4	73.5	155.0					
ROTZ	e P	Z 01:18:57.3	73.6	157.9					
GRA1	e P	Z 01:18:58.4	73.8	157.0	1.8	86	5.5		
MANZ	e P	Z 01:18:58.6	73.9	157.9					
TANN	e P	Z 01:19:00.7	74.2	158.2					
BRG	e P	Z 01:19:00.6	74.3	159.7	1.5	17	4.8		
MOX	e P	Z 01:19:02.8	74.6	157.5	1.8	36	5.1		

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CLL	e P	Z	01:19:04.5	74.9	158.8	1.6	30	5.1
TNS	e P	Z	01:19:05.3	75.0	154.5			
UBBA	e P	Z	01:19:06.2	75.2	156.0			
CLZ	e P	Z	01:19:11.2	76.0	156.4	1.7	27	5.1
BUG	e P	Z	01:19:13.7	76.4	153.5	1.8	64	5.5
IBBN	e P	Z	01:19:17.5	77.1	154.1			
BSEG	e P	Z	01:19:22.0	77.9	156.6	1.6	46	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/30	02:43:48.8	72.975N	9.195E	33.0N	4.7	4.0		SZGRF

Norwegian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 02:48:11.2	19.0	359.0	1.3	39	4.5		
IBBN	e P	Z 02:48:27.6	20.7	1.2					
CLZ	e P	Z 02:48:31.7	21.1	359.0	1.7	100	4.9		
BUG	e P	Z 02:48:35.4	21.6	1.5					
CLL	e P	Z 02:48:40.0	21.7	357.0	1.5	40	4.7		
	e S	E 02:52:46.7							
	e LR	Z 02:54:26.0							
	e L	Z 02:57:15.8			20.0	572		4.0	
BRG	e P	Z 02:48:41.4	22.2	356.3	1.8	55	4.7		
MOX	e P	Z 02:48:44.9	22.4	358.1	1.0	27	4.6		
TANN	e P	Z 02:48:47.9	22.6	357.5					
TNS	e P	Z 02:48:48.2	22.8	0.6					
MANZ	e P	Z 02:48:51.3	23.0	357.8					
ROTZ	e P	Z 02:48:53.2	23.2	357.8					
GRA1	e P	Z 02:48:54.3	23.3	358.5	2.0	98	5.0		
	e L	Z 02:59:49.3			18.8	475		4.0	
WET	e P	Z 02:49:00.2	23.9	357.3	2.1	57	4.7		
STU	e P	Z 02:49:02.2	24.2	0.0					
GEC2	e P	Z 02:49:02.2	24.2	356.8	1.2	13	4.3		
BFO	e P	Z 02:49:05.5	24.6	0.6	1.4	49	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/30								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 08:26:33.3			0.7	6			
	e pPKPdf	Z 08:26:50.9							
	e sPKPdf	Z 08:26:57.9							
	e PP	Z 08:28:25.8							
	e PS	Z 08:38:29.2							
	e (SS)	E 08:45:18.2							
	e (SSS)	Z 08:50:13.4							



	e LR	Z	09:09:08.2				
	e L	Z	09:23:55.4	22.0	444	5.1	
CLZ	e PKP	Z	08:26:35.3				
GEC2	e PKP	Z	08:26:35.7				
GRA1	e PKP	Z	08:26:37.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/06/30	23:28:19.8	39.337N	142.249E	42.9	5.8	4.9		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	23:40:05.4	76.4	38.2	1.1	147	6.0		
RUE	e P	Z	23:40:13.2	77.9	38.3	1.2	116	5.9		
BSEG	e P	Z	23:40:13.9	78.0	36.0	1.0	114	6.0		
BRG	e P	Z	23:40:19.5	79.1	38.2	1.0	60	5.6		
CLL	i P	+ Z	23:40:19.5	79.1	37.6	0.9	122	5.8		
	e pP	Z	23:40:31.9							
	e PP	Z	23:43:20.4							
	e S	E	23:50:27.1							
	e PS	Z	23:51:24.8							
	e SS	E	23:55:36.7							
	e LR	Z	00:07:13.6							
	e L	Z	00:18:58.3			18.0	536		4.9	
FBE	e P	Z	23:40:20.7	79.3	37.8					
CLZ	e P	Z	23:40:23.0	79.7	35.8	1.0	108	5.7		
	e pP	Z	23:40:35.3							
TANN	e P	Z	23:40:24.6	80.0	37.1					
GTTN	e P	Z	23:40:24.8	80.1	35.5					
WERD	e P	Z	23:40:24.8	80.1	37.0					
MOX	e P	Z	23:40:25.3	80.2	36.6	1.3	66	5.5		
IBBN	e P	Z	23:40:25.5	80.2	34.0					
	e pP	Z	23:40:38.0							
MANZ	e P	Z	23:40:27.3	80.5	36.8					
UBBA	e P	Z	23:40:27.6	80.6	35.5					
ROTZ	e P	Z	23:40:28.4	80.6	36.9					
GEC2	e P	Z	23:40:28.4	80.8	37.8	1.1	39	5.4		
WET	i P	Z	23:40:29.4	80.9	37.3	1.1	55	5.5		
GRA1	e P	Z	23:40:30.7	81.1	36.2	1.0	122	5.9		
	e pP	Z	23:40:42.7							
GRFO	e P	Z	23:40:30.7	81.1	36.2					
BUG	e P	Z	23:40:30.0	81.1	33.6					
TNS	e P	Z	23:40:33.3	81.7	34.3					
FUR	e P	Z	23:40:36.6	82.3	36.1	0.9	111	6.1		
STU	e P	Z	23:40:38.1	82.6	34.7					
WLF	e P	Z	23:40:40.5	83.0	32.7					
BFO	e P	Z	23:40:41.5	83.3	34.1	1.1	91	5.9		
	e pP	Z	23:40:54.3							

GRA1 e L Z 00:19:59.5 81.1 36.2 18.5 499 4.9

## Format description

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

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

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

## EPICENTER LINES:

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

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

## COMMENT LINE:

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

## REGION LINE:

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

## PHASE LINE:

Sta	Station code of the reported phase
Phase	Preceded flag for the sharpness of the onset of the phase
	e - emergent
	i - impulsive

w - weak  
ISC phase code  
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