



	e sSS	E	03:20:34.9						
	e SSS	E	03:21:42.9						
	e SSSS	E	03:24:45.8						
CLZ	e P	Z	03:02:55.6	84.0	41.9	1.5	99	5.8	
	e PP	Z	03:06:14.8						
	e S	T	03:12:46.3						
MOX	e P	Z	03:02:56.9	84.3	42.8	1.6	63	5.6	
	e pP	Z	03:04:25.5						
	e PP	Z	03:06:17.5						
	e S	T	03:12:50.0						
IBBN	e P	Z	03:02:58.7	84.7	40.0	1.3	76	5.8	
	e PP	Z	03:06:21.7						
	e S	T	03:12:52.2						
GEC2	e P	Z	03:02:58.5	84.7	44.2	1.2	25	5.3	
	e S	T	03:12:54.5						
ROTZ	e P	Z	03:02:59.1	84.7	43.1	1.5	90	5.8	
	e pP	Z	03:04:27.7						
	e S	T	03:12:55.4						
WET	e P	Z	03:02:59.6	84.9	43.6	2.1	100	5.7	
	e S	T	03:12:56.3						
UBBA	e P	Z	03:02:59.3	84.9	41.6	1.8	49	5.4	
	e PP	Z	03:06:23.6						
	e S	T	03:12:55.2						
GRA1	e P	Z	03:03:01.4	85.2	42.4	1.4	84	5.7	
	e pP	Z	03:04:29.6						
	e PP	Z	03:06:27.3						
	e S	T	03:13:00.4						
TNS	e S	T	03:13:06.9	86.0	40.4				
FUR	e P	Z	03:03:06.9	86.3	42.4	2.2	289	6.0	
	e S	T	03:13:10.7						
STU	e P	Z	03:03:08.7	86.8	40.9	1.6	54	5.4	
	e pP	Z	03:04:38.3						
	e PP	Z	03:06:38.1						
BFO	e P	Z	03:03:11.2	87.5	40.3	1.3	32	5.5	
	e pP	Z	03:04:40.3						
	e S	T	03:13:20.0						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/01 03:23:11.7 44.276N 149.692E 33.0N 4.0  
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:35:14.3	79.3	28.9	1.0	2	4.0		

Date Origin Time Lat Long Depth mb Ms ML Source

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2007/04/01 03:20:20.7  
Tonga Islands

21.200S 174.300W 35.0

NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 03:40:02.0	149.4	13.5					
	e PKPbc	Z 03:40:06.3			1.9	36			
	e PKPab	Z 03:40:09.9							
GRA1	e PKP	Z 03:40:18.4	151.2	10.7					

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/01 05:08:49.8 3.240N 95.144E 33.0N 4.3  
Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:21:15.2	83.6	92.5	1.1	2	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/01 05:16:45.9 19.260S 177.620W 33.0G  
Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 05:36:24.0	146.7	9.3					
CLZ	e PKPbc	Z 05:36:24.4	146.8	13.9					
CLL	e PKPbc	Z 05:36:24.5	146.9	18.6					
BRG	e PKPbc	Z 05:36:25.2	147.1	20.4					
MOX	e PKPdf	Z 05:36:24.8	147.8	16.5					
	e PKPbc	Z 05:36:27.1							
WERD	e PKPdf	Z 05:36:25.0	147.8	17.8					
UBBA	e PKPbc	Z 05:36:27.1	147.9	13.6					
GUNZ	e PKPdf	Z 05:36:25.4	147.9	17.9					
WERN	e PKPdf	Z 05:36:25.6	148.0	18.0					
MANZ	e PKPdf	Z 05:36:25.6	148.3	17.7					
ROTZ	e PKPbc	Z 05:36:29.3	148.5	18.0					
TNS	e PKPbc	Z 05:36:29.7	148.7	11.1					
	e PKPab	Z 05:36:33.5							
GRA1	e PKPdf	Z 05:36:26.7	148.8	16.2					
	e PKPbc	Z 05:36:30.1							
	e PKPab	Z 05:36:34.0							
WET	e PKPbc	Z 05:36:30.2	148.9	19.5					
	e PKPab	Z 05:36:34.9							
GEC2	e PKPbc	Z 05:36:30.6	149.0	21.1					
	e PKPab	Z 05:36:34.9							
WLF	e PKPbc	Z 05:36:32.1	149.4	7.0					
	e PKPab	Z 05:36:36.9							

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STU	e PKPdf	Z	05:36:28.3	150.0	12.9
	e PKPbc	Z	05:36:33.1		
	e PKPab	Z	05:36:38.2		
FUR	e PKPbc	Z	05:36:33.6	150.2	17.1
	e PKPab	Z	05:36:39.9		
BFO	e PKPbc	Z	05:36:33.9	150.5	11.5
	e PKPab	Z	05:36:41.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	07:09: 2.3	9.930N	92.173E	33.0N	4.9	4.4		SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:20:50.0	76.6	90.4	1.5	15	4.9		
	e L	Z 07:57:22.4			21.0	194		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	08:46: 2.1	46.176N	154.729E	33.0N	4.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:58:03.3	79.0	24.8	0.8	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	15:23:24.3	8.957S	26.085E	33.0	4.5	4.2		SZGRF

Zaire

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:33:28.5	60.1	163.0	1.0	5	4.5		
	e PP	Z 15:35:40.4							
	e L	Z 16:00:28.5			19.1	164		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	17:06:14.4	19.516S	171.586E	33.0N				SZGRF

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 17:25:44.0	144.5	31.5					
IBBN	e PKPbc	Z 17:25:46.7	144.9	27.1					
WERD	e PKPbc	Z 17:25:46.1	145.0	35.5					
GUNZ	e PKPbc	Z 17:25:46.4	145.0	35.6					

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MOX	e	PKPbc	Z	17:25:46.6	145.1	34.3
UBBA	e	PKPbc	Z	17:25:48.5	145.5	31.7
ROTZ	e	PKPbc	Z	17:25:48.0	145.6	36.0
GEC2	e	PKPbc	Z	17:25:48.8	145.7	39.0
GRA1	e	PKPbc	Z	17:25:50.3	146.0	34.5
WLF	e	PKPbc	Z	17:25:55.4	147.7	26.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	18:07: 6.5	12.800S	168.900E	550.0				GSRC
Santa Cruz Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPdf	Z	18:25:26.8	136.8	37.1			
CLL	e	PKPdf	Z	18:25:26.9	136.8	35.6			
CLZ	e	PKPdf	Z	18:25:28.2	137.3	31.8			
MANZ	e	PKPdf	Z	18:25:29.8	138.2	35.2			
GEC2	e	PKPdf	Z	18:25:30.2	138.5	38.2			
GRA1	e	PKPdf	Z	18:25:30.6	138.8	34.2			
FUR	e	PKPdf	Z	18:25:33.3	140.0	35.3			
STU	e	PKPdf	Z	18:25:33.9	140.3	32.0			
WLF	e	PKPdf	Z	18:25:35.4	140.5	27.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	20:39:56.0	8.609S	156.963E	10.0G		7.9		NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e	Pdiff	Z	20:55:43.2	125.7	46.2			
	e	PKPdf	Z	20:58:57.8					
	e	PP	Z	21:00:54.0					
	e	Sdiff	T	21:09:04.1					
	e	SS	T	21:17:50.8					
RUE	e	Pdiff	Z	20:55:48.5	126.9	47.8			
	e	PKPdf	Z	20:59:00.2					
	e	PP	Z	21:00:59.3					
	e	Sdiff	T	21:09:13.1					
	e	SS	T	21:18:05.6					
BSEG	e	Pdiff	Z	20:55:50.9	127.4	43.2			
	e	PKPdf	Z	20:59:01.0					
	e	PP	Z	21:01:00.9					
	e	Sdiff	T	21:09:16.5					
	e	SS	T	21:18:11.6					
BRG	e	Pdiff	Z	20:55:53.5	127.9	48.9			
	e	PKPdf	Z	20:59:02.1					
	e	PP	Z	21:01:06.3					

	e Sdiff	T	21:09:23.0		
	e SS	T	21:18:20.0		
CLL	e Pdiff	Z	20:55:46.4	128.1	47.6
	e PKPdf	Z	20:59:02.1		
	e PP	Z	21:01:25.4		
	e PKSdf	E	21:02:44.3		
	e Sdiff	N	21:09:14.4		
	e SP	Z	21:11:10.1		
	e PS	E	21:11:21.4		
	e PPS	E	21:12:50.5		
	e SKKSdf	E	21:16:46.6		
	e SS	N	21:18:26.2		
	e SSS	N	21:23:07.5		
HLG	e Pdiff	Z	20:55:57.1	128.2	40.2
	e PKPdf	Z	20:59:04.0		
	e PP	Z	21:01:07.3		
	e Sdiff	T	21:09:23.7		
	e SS	T	21:18:19.5		
FBE	e PKPdf	Z	20:59:02.8	128.2	48.3
CLZ	e Pdiff	Z	20:55:58.1	128.9	44.4
	e PKPdf	Z	20:59:04.2		
	e PP	Z	21:01:12.9		
	e Sdiff	T	21:09:30.5		
	e SS	T	21:18:31.5		
WERD	e PKPdf	Z	20:59:04.1	129.0	47.4
GUNZ	e PKPdf	Z	20:59:04.5	129.0	47.4
WERN	e PKPdf	Z	20:59:04.6	129.1	47.5
MOX	e Pdiff	Z	20:55:59.3	129.2	46.5
	e PKPdf	Z	20:59:04.5		
	e PP	Z	21:01:15.4		
	e Sdiff	T	21:09:34.2		
	e SS	T	21:18:35.9		
GEC2	e Pdiff	Z	20:55:59.8	129.4	49.9
	e PKPdf	Z	20:59:05.0		
	e PP	Z	21:01:15.9		
	e Sdiff	T	21:09:37.3		
	e SS	T	21:18:39.9		
MANZ	e Pdiff	Z	20:56:00.4	129.4	47.4
	e PKPdf	Z	20:59:05.0		
	e PP	Z	21:01:17.0		
	e Sdiff	T	21:09:37.1		
	e SS	T	21:18:39.7		
ROTZ	e Pdiff	Z	20:56:01.0	129.5	47.7
	e PKPdf	Z	20:59:05.2		
	e PP	Z	21:01:18.0		
	e Sdiff	T	21:09:37.9		
	e SS	T	21:18:41.6		
WET	e Pdiff	Z	20:56:01.4	129.6	48.8
	e PKPdf	Z	20:59:05.5		

	e PP	Z	21:01:18.6									
	e Sdiff	T	21:09:38.8									
	e SS	T	21:18:43.2									
IBBN	e Pdiff	Z	20:56:01.1	129.6	41.1							
	e PKPdf	Z	20:59:05.7									
	e PP	Z	21:01:17.5									
	e Sdiff	T	21:09:36.3									
	e SS	T	21:18:38.0									
GRA1	e Pdiff	Z	20:56:03.1	130.0	46.6							
	e PKPdf	Z	20:59:06.2									
	e PP	Z	21:01:21.3									
	e Sdiff	T	21:09:40.8									
	e SS	T	21:18:47.6									
	e L	Z	21:59:57.3			21.9	259594			7.9		
GRFO	e Sdiff	T	21:09:40.6	130.0	46.6							
	e SS	T	21:18:47.7									
TNS	e Pdiff	Z	20:56:07.2	130.9	43.1							
	e PKPdf	Z	20:59:08.0									
	e PP	Z	21:01:27.7									
	e Sdiff	T	21:09:48.5									
	e SS	T	21:18:57.7									
FUR	e Pdiff	Z	20:56:07.5	131.0	47.6							
	e PKPdf	Z	20:59:08.2									
	e PP	Z	21:01:27.7									
	e Sdiff	T	21:09:49.2									
	e SS	T	21:19:01.4									
STU	e Pdiff	Z	20:56:10.2	131.6	44.8							
	e PKPdf	Z	20:59:09.0									
	e PP	Z	21:01:32.0									
	e Sdiff	T	21:09:55.2									
	e SS	T	21:19:07.7									
WLF	e Pdiff	Z	20:56:13.9	132.3	40.7							
	e PKPdf	Z	20:59:11.2									
	e PP	Z	21:01:36.8									
	e Sdiff	T	21:10:02.5									
	e SS	T	21:19:15.6									
BFO	e Pdiff	Z	20:56:13.4	132.3	44.1							
	e PKPdf	Z	20:59:10.4									
	e PP	Z	21:01:36.2									
	e Sdiff	T	21:10:01.4									
	e SS	T	21:19:16.7									

Date 2007/04/01 Origin Time 20:47:31.6 Lat 7.249S Long 155.683E Depth 10.0 mb Ms ML Source NEIC  
 Bougainville - Solomon Islands region

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

RGN	e	PKPdf	Z	21:06:31.8	123.9	46.9
RUE	e	PKPdf	Z	21:06:34.1	125.1	48.5
BSEG	e	PKPdf	Z	21:06:35.1	125.6	43.9
BRG	e	PKPdf	Z	21:06:36.0	126.1	49.5
CLL	e	PKPdf	Z	21:06:36.0	126.3	48.2
FBE	e	PKPdf	Z	21:06:36.6	126.4	48.8
HLG	e	PKPdf	Z	21:06:36.6	126.4	41.1
CLZ	e	PKPdf	Z	21:06:38.2	127.1	45.1
WERD	e	PKPdf	Z	21:06:38.1	127.2	48.0
GUNZ	e	PKPdf	Z	21:06:38.4	127.2	48.0
WERN	e	PKPdf	Z	21:06:38.4	127.3	48.1
MOX	e	PKPdf	Z	21:06:38.4	127.4	47.1
GEC2	e	PKPdf	Z	21:06:38.7	127.5	50.4
MANZ	e	PKPdf	Z	21:06:38.9	127.6	48.0
ROTZ	e	PKPdf	Z	21:06:39.0	127.7	48.2
WET	e	PKPdf	Z	21:06:39.3	127.8	49.3
IBBN	e	PKPdf	Z	21:06:39.4	127.9	41.9
GRA1	e	PKPdf	Z	21:06:40.0	128.2	47.2
TNS	e	PKPdf	Z	21:06:41.9	129.1	43.8
FUR	e	PKPdf	Z	21:06:41.9	129.2	48.2
STU	e	PKPdf	Z	21:06:43.1	129.8	45.5
BFO	e	PKPdf	Z	21:06:44.2	130.5	44.7
WLF	e	PKPdf	Z	21:06:45.2	130.5	41.4

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/01 21:11:33.8 7.400S 155.800E 10.0  
 Bougainville - Solomon Islands region NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e	PKPdf	Z 21:30:31.7	124.1	46.9					
RUE	e	PKPdf	Z 21:30:34.0	125.3	48.4					
BSEG	e	PKPdf	Z 21:30:35.0	125.8	43.9					
BRG	e	PKPdf	Z 21:30:35.9	126.3	49.5					
CLL	e	PKPdf	Z 21:30:35.9	126.5	48.2					
FBE	e	PKPdf	Z 21:30:36.5	126.6	48.8					
HLG	e	PKPdf	Z 21:30:36.6	126.6	41.0					
CLZ	e	PKPdf	Z 21:30:38.1	127.3	45.0					
WERD	e	PKPdf	Z 21:30:38.0	127.4	47.9					
GUNZ	e	PKPdf	Z 21:30:38.3	127.4	48.0					
WERN	e	PKPdf	Z 21:30:38.3	127.4	48.1					
MOX	e	PKPdf	Z 21:30:38.3	127.6	47.1					
GEC2	e	PKPdf	Z 21:30:38.7	127.7	50.4					
MANZ	e	PKPdf	Z 21:30:38.9	127.8	48.0					
ROTZ	e	PKPdf	Z 21:30:39.0	127.9	48.2					
WET	e	PKPdf	Z 21:30:39.3	127.9	49.3					
IBBN	e	PKPdf	Z 21:30:39.3	128.1	41.8					
GRA1	e	PKPdf	Z 21:30:40.0	128.4	47.2					





GRA1 e PKPdf Z 22:49:10.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	22:37:59.4	24.566N	121.586E	33.0N	4.2			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:50:24.5	83.6	59.1	0.6	1	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	22:41: 4.6	7.000S	155.200E	10.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:00:10.3	127.8	47.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:09:33.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	22:57:23.4	7.300S	156.000E	10.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 23:16:25.8	125.8	43.6					
BRG	e PKPdf	Z 23:16:26.7	126.3	49.2					
CLL	e PKPdf	Z 23:16:26.7	126.5	47.9					
CLZ	e PKPdf	Z 23:16:28.9	127.3	44.7					
MOX	e PKPdf	Z 23:16:29.1	127.6	46.8					
ROTZ	e PKPdf	Z 23:16:29.7	127.9	47.9					
WET	e PKPdf	Z 23:16:30.0	128.0	49.0					
IBBN	e PKPdf	Z 23:16:30.0	128.0	41.5					
GRA1	e PKP	Z 23:16:30.8	128.4	46.9					
TNS	e PKPdf	Z 23:16:32.4	129.3	43.4					
FUR	e PKPdf	Z 23:16:32.4	129.4	47.8					
STU	e PKPdf	Z 23:16:33.7	130.0	45.1					
WLF	e PKPdf	Z 23:16:35.8	130.7	41.1					
BFO	e PKPdf	Z 23:16:34.7	130.7	44.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	23:09:38.8	7.300S	155.800E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:28:47.9	128.3	47.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/01	23:25:28.1	7.300S	156.100E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:44:34.8	128.4	46.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	00:10:55.9	7.100S	155.900E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 00:30:01.1	128.2	46.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	00:49:48.0	6.900S	155.500E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:08:54.1	127.8	47.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	01:36:15.5	7.200S	155.500E	24.3				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 01:55:22.0	128.1	47.4					
	e pPKPdf	Z 01:55:29.4							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/02

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 02:13:21.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	02:49:42.8	45.200S	72.800W	35.0		6.0		NEIC
Southern Chile								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:08:28.4	119.6	233.7					
	e L	Z 03:57:48.1			21.8	4058		6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	04:11:39.5	7.200S	156.100E	44.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 04:30:41.1	125.8	43.4					
	e pPKPdf	Z 04:30:54.7							
BRG	e PKPdf	Z 04:30:42.1	126.3	49.0					
CLL	e PKPdf	Z 04:30:42.1	126.4	47.8					
	e pPKPdf	Z 04:30:55.6							
FBE	e PKPdf	Z 04:30:42.7	126.5	48.4					
NRDL	e PKPdf	Z 04:30:43.5	126.9	43.9					
CLZ	e PKPdf	Z 04:30:44.3	127.2	44.6					
	e pPKPdf	Z 04:30:57.5							
WERD	e PKPdf	Z 04:30:44.1	127.3	47.5					
	e pPKPdf	Z 04:30:57.6							
GUNZ	e PKPdf	Z 04:30:44.5	127.4	47.6					
WERN	e PKPdf	Z 04:30:44.5	127.4	47.6					
MOX	e PKPdf	Z 04:30:44.4	127.5	46.6					
GEC2	e PKPdf	Z 04:30:44.9	127.7	49.9					
	e pPKPdf	Z 04:30:58.1							
MANZ	e PKPdf	Z 04:30:45.1	127.7	47.5					
ROTZ	e PKPdf	Z 04:30:45.1	127.8	47.8					
WET	e PKPdf	Z 04:30:45.4	127.9	48.9					
	e pPKPdf	Z 04:30:58.7							
IBBN	e PKPdf	Z 04:30:45.5	128.0	41.4					
UBBA	e PKPdf	Z 04:30:45.7	128.1	44.7					
	e pPKPdf	Z 04:30:58.8							
GRA1	e PKPdf	Z 04:30:46.1	128.4	46.7					
	e pPKPdf	Z 04:30:59.4							
TNS	e PKPdf	Z 04:30:48.0	129.2	43.3					

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FUR	e PKPdf	Z	04:30:48.0	129.4	47.7
	e pPKPdf	Z	04:31:01.2		
STU	e PKPdf	Z	04:30:49.3	129.9	45.0
WLF	e PKPdf	Z	04:30:51.5	130.6	40.9
BFO	e PKPdf	Z	04:30:50.3	130.7	44.2
	e pPKPdf	Z	04:31:03.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	05:33:35.8	7.300S	155.300E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 05:52:42.1	128.1	47.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	06:52: 8.3	45.215N	151.188E	33.0N	4.6			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:04:08.9	78.9	27.5	0.8	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	06:58:52.2	44.622N	149.438E	46.4	5.4			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:10:52.8	78.9	28.9	1.5	65	5.4		
	e pP	Z 07:11:06.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	07:16:32.8	7.500S	156.100E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 07:35:40.2	128.6	46.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	10:00:22.0	44.261N	149.794E	47.2	5.2			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:12:25.0	79.3	28.8	1.8	59	5.2		
	e pP	Z	10:12:38.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	10:14:37.7	43.950N	149.764E	33.0N	4.5			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:26:42.1	79.6	29.0	0.9	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	10:49:14.6	7.200S	156.200E	44.2		5.6		NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z	11:08:15.9	125.3	47.9					
BSEG	e PKPdf	Z	11:08:17.0	125.8	43.3					
	e pPKPdf	Z	11:08:30.2							
BRG	e PKPdf	Z	11:08:17.8	126.3	48.9					
	e pPKPdf	Z	11:08:31.3							
CLL	e PKPdf	Z	11:08:17.9	126.5	47.7					
FBE	e PKPdf	Z	11:08:18.5	126.6	48.2					
NRDL	e PKPdf	Z	11:08:19.3	126.9	43.8					
CLZ	e PKPdf	Z	11:08:20.1	127.3	44.5					
	e pPKPdf	Z	11:08:33.6							
WERD	e PKPdf	Z	11:08:19.9	127.4	47.4					
GUNZ	e PKPdf	Z	11:08:20.3	127.4	47.4					
WERN	e PKPdf	Z	11:08:20.3	127.5	47.5					
MOX	e PKPdf	Z	11:08:20.2	127.6	46.5					
GEC2	e PKPdf	Z	11:08:20.6	127.8	49.8					
MANZ	e PKPdf	Z	11:08:20.9	127.8	47.4					
ROTZ	e PKPdf	Z	11:08:20.8	127.9	47.6					
WET	e PKPdf	Z	11:08:21.2	128.0	48.7					
IBBN	e PKPdf	Z	11:08:21.3	128.0	41.2					
UBBA	e PKPdf	Z	11:08:21.3	128.2	44.6					
GRA1	e PKPdf	Z	11:08:21.9	128.4	46.6					
	e L	Z	12:07:44.4			21.8	1392		5.6	
TNS	e PKPdf	Z	11:08:23.8	129.3	43.2					
FUR	e PKPdf	Z	11:08:23.8	129.4	47.6					
STU	e PKPdf	Z	11:08:25.0	130.0	44.8					
WLF	e PKPdf	Z	11:08:27.2	130.7	40.8					
BFO	e PKPdf	Z	11:08:26.1	130.7	44.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	12:02:23.0	8.500S	157.500E	10.0		6.0		NEIC
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	12:21:27.7	127.5	42.5					
BRG	e PKPdf	Z	12:21:28.8	128.1	48.3					
CLL	e PKPdf	Z	12:21:28.8	128.2	47.0					
FBE	e PKPdf	Z	12:21:29.4	128.3	47.6					
CLZ	e PKPdf	Z	12:21:30.9	129.0	43.7					
WERD	e PKPdf	Z	12:21:30.8	129.1	46.7					
GUNZ	e PKPdf	Z	12:21:31.1	129.2	46.8					
WERN	e PKPdf	Z	12:21:31.2	129.2	46.9					
MOX	e PKPdf	Z	12:21:31.2	129.3	45.8					
GEC2	e PKPdf	Z	12:21:31.6	129.5	49.2					
MANZ	e PKPdf	Z	12:21:31.7	129.5	46.7					
ROTZ	e PKPdf	Z	12:21:31.9	129.6	47.0					
IBBN	e PKPdf	Z	12:21:32.1	129.7	40.4					
WET	e PKPdf	Z	12:21:32.2	129.7	48.1					
UBBA	e PKPdf	Z	12:21:32.3	129.9	43.8					
GRA1	e PKPdf	Z	12:21:32.8	130.2	45.9					
	e SS	T	12:41:15.0							
	e SSS	T	12:46:06.6							
	e L	Z	13:22:29.4			21.2	3628		6.0	
TNS	e PKPdf	Z	12:21:34.7	131.0	42.4					
FUR	e PKPdf	Z	12:21:34.8	131.2	46.9					
STU	e PKPdf	Z	12:21:35.8	131.7	44.1					
WLF	e PKPdf	Z	12:21:37.9	132.4	40.0					
BFO	e PKPdf	Z	12:21:36.9	132.5	43.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	12:19:21.8	44.421N	149.823E	49.9	5.4	5.7		SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:31:24.0	79.2	28.7	1.3	70	5.4		
	e pP	Z	12:31:38.3			1.3	70			
	e S	T	12:41:17.0							
	e SS	T	12:46:17.3							
	e L	Z	13:22:50.4			20.9	3298		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	13:49:54.1	7.800S	156.500E	10.0				NEIC





BSEG	e	PKPdf	Z	23:08:58.6	127.4	46.4
BRG	e	PKPdf	Z	23:08:58.8	127.7	52.2
CLL	e	PKPdf	Z	23:08:59.2	127.9	50.9
FBE	e	PKPdf	Z	23:08:59.5	128.0	51.5
WERD	e	PKPdf	Z	23:09:01.0	128.8	50.7
CLZ	e	PKPdf	Z	23:09:01.1	128.8	47.7
GUNZ	e	PKPdf	Z	23:09:01.3	128.8	50.7
WERN	e	PKPdf	Z	23:09:01.3	128.9	50.8
MOX	e	PKPdf	Z	23:09:01.2	129.0	49.8
MANZ	e	PKPdf	Z	23:09:01.9	129.2	50.7
ROTZ	e	PKPdf	Z	23:09:02.0	129.3	51.0
WET	e	PKPdf	Z	23:09:02.0	129.3	52.1
GRA1	e	PKPdf	Z	23:09:03.0	129.8	49.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	23:20:22.7	8.500S	157.400E	10.0		6.1		NEIC
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	PKPdf	Z	23:39:27.3	127.0	47.3				
BSEG	e	PKPdf	Z	23:39:28.2	127.5	42.6				
BRG	e	PKPdf	Z	23:39:29.3	128.0	48.4				
CLL	i	PKPdf	+ Z	23:39:29.6	128.2	47.1	1.4	22		
	e	pPKPdf	Z	23:39:34.6						
	e	PP	Z	23:41:34.8						
	e	SKPdf	Z	23:42:56.2						
	e	PPP	Z	23:44:24.0						
	e	SKSdf	Z	23:46:34.4						
	e	SKKSac	N	23:48:35.2						
	e	SKSP	Z	23:51:33.4						
	e	PS	E	23:51:44.0						
	e	PPS	E	23:53:20.4						
	e	SKKSdf	N	23:56:52.6						
	e	SS	Z	23:58:47.7						
	e	SSS	N	00:03:37.0						
FBE	e	PKPdf	Z	23:39:29.9	128.3	47.7				
NRDL	e	PKPdf	Z	23:39:30.6	128.6	43.1				
CLZ	e	PKPdf	Z	23:39:31.4	129.0	43.8				
WERD	e	PKPdf	Z	23:39:31.4	129.1	46.8				
GUNZ	e	PKPdf	Z	23:39:31.7	129.1	46.9				
WERN	e	PKPdf	Z	23:39:31.7	129.2	47.0				
MOX	e	PKPdf	Z	23:39:31.6	129.3	45.9				
MANZ	e	PKPdf	Z	23:39:32.2	129.5	46.9				
ROTZ	e	PKPdf	Z	23:39:32.4	129.6	47.1				
WET	e	PKPdf	Z	23:39:32.6	129.7	48.2				
IBBN	e	PKPdf	Z	23:39:32.6	129.7	40.5				
GRA1	e	PKPdf	Z	23:39:33.3	130.1	46.0				

	e PP	Z	23:41:47.1									
	e SKPdf	Z	23:43:03.8									
	e SKKSac	R	23:48:47.0									
TNS	e PKPdf	Z	23:39:35.3	131.0	42.5							
FUR	e PKPdf	Z	23:39:35.1	131.1	47.0							
STU	e PKPdf	Z	23:39:36.4	131.7	44.3							
WLF	e PKPdf	Z	23:39:38.5	132.4	40.1							
BFO	e PKPdf	Z	23:39:37.4	132.4	43.5							
GRA1	e L	Z	00:39:45.6	130.1	46.0	21.8	3871			6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/02	23:31:15.4	6.900S	155.400E	29.8				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:50:21.5	127.8	47.3					
	e pPKPdf	Z 23:50:30.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	00:28:40.0	7.100S	155.400E	10.0G				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 00:47:54.7	127.9	47.4					
	e	00:48:17.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	02:15:22.3	46.904N	152.472E	33.0N	5.2			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 02:26:55.7	74.2	25.8	1.0	12	5.0		
NRDL	e P	Z 02:27:03.2	75.5	25.5	1.0	17	5.0		
CLL	e P	Z 02:27:04.3	75.8	27.3	0.8	31	5.4		
BRG	e P	Z 02:27:05.0	75.9	27.8	0.9	9	4.8		
CLZ	e P	Z 02:27:06.5	76.0	25.6	1.0	30	5.3		
MOX	e P	Z 02:27:10.2	76.8	26.3	1.0	18	5.1		
UBBA	e P	Z 02:27:12.0	77.1	25.3	1.8	28	5.1		
MANZ	e P	Z 02:27:12.9	77.2	26.5	0.9	12	5.0		
ROTZ	e P	Z 02:27:14.0	77.4	26.6	1.0	16	5.1		
GRA1	e P	Z 02:27:16.4	77.8	26.0	0.8	40	5.6		
WET	e P	Z 02:27:16.4	77.8	26.9	1.0	23	5.3		
GEC2	e P	Z 02:27:16.0	77.8	27.4	0.8	10	5.0		

TNS	e P	Z	02:27:17.7	78.0	24.2	0.8	20	5.3
FUR	e P	Z	02:27:23.9	79.1	25.8	0.6	22	5.5
STU	e P	Z	02:27:23.7	79.1	24.6	0.9	23	5.3
BFO	e P	Z	02:27:27.1	79.8	24.0	1.0	22	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	02:46:37.8	7.800S	155.700E	28.3				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:05:45.9	128.7	47.5					
	e pPKPdf	Z 03:05:54.4							
	e PP	Z 03:07:53.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:12:44.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	03:35: 5.7	36.270N	70.690E	215.1	5.9			SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 03:42:40.7	42.4	87.4	1.4	340	5.9		
RUE	e P	Z 03:42:41.0	42.5	89.0	1.4	426	6.0		
GEC2	e P	Z 03:42:42.7	42.7	85.0	1.2	98	5.4		
RGN	e P	Z 03:42:43.4	42.8	90.9	1.3	1291	6.5		
FBE	e P	Z 03:42:43.5	42.8	87.0					
CLL	e P	Z 03:42:45.3	43.0	87.2	1.4	225	5.7		
	e pP	Z 03:43:31.9							
	e sP	Z 03:43:57.5							
	e PP	Z 03:44:31.3							
	e sPP	Z 03:45:36.5							
	e ScP	Z 03:48:00.8							
	e S	E 03:48:52.2							
	e sS	E 03:50:19.4							
	e SS	E 03:52:18.0							
	e ScS	N 03:52:21.7							
WET	e P	Z 03:42:46.6	43.2	84.8	1.6	109	5.3		
WERN	e P	Z 03:42:49.1	43.5	85.6	1.5	164	5.6		
GUNZ	e P	Z 03:42:49.2	43.5	85.7	1.3	213	5.7		

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WERD	e P	Z	03:42:49.0	43.5	85.8	1.3	183	5.6
ROTZ	e P	Z	03:42:50.7	43.6	85.0	1.4	326	5.9
MANZ	e P	Z	03:42:50.7	43.7	85.1	1.4	219	5.7
MOX	e P	Z	03:42:52.4	43.9	85.5	1.3	212	5.7
GRA1	e P	Z	03:42:55.9	44.3	84.2	1.3	355	5.9
	e pP	Z	03:43:41.7					
	e sP	Z	03:44:07.1					
FUR	e P	Z	03:42:56.6	44.4	82.7	1.3	367	6.2
BSEG	e P	Z	03:42:57.5	44.5	87.9	1.3	383	6.2
CLZ	e P	Z	03:42:57.7	44.6	85.8	1.3	314	6.1
NRDL	e P	Z	03:42:59.0	44.7	86.2	1.4	335	6.1
UBBA	e P	Z	03:43:00.1	44.9	84.5	1.6	216	5.8
STU	e P	Z	03:43:06.6	45.7	81.9	1.4	222	6.0
TNS	e P	Z	03:43:08.9	46.0	82.8	1.3	134	5.8
IBBN	e P	Z	03:43:10.1	46.2	84.3	1.4	556	6.4
BFO	e P	Z	03:43:10.8	46.3	80.9	1.3	113	5.7
WLF	e P	Z	03:43:21.1	47.5	80.7	1.3	333	6.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	05:21:18.8	8.500S	157.400E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 05:40:29.8	130.1	46.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	09:11:43.9	7.300S	155.700E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 09:30:46.6	125.7	43.9					
BRG	e PKPdf	Z 09:30:47.4	126.2	49.5					
NRDL	e PKPdf	Z 09:30:48.5	126.8	44.4					
CLZ	e PKPdf	Z 09:30:49.7	127.2	45.1					
MOX	e PKPdf	Z 09:30:49.6	127.4	47.1					
GEC2	e PKPdf	Z 09:30:49.8	127.6	50.4					
MANZ	e PKPdf	Z 09:30:50.2	127.6	48.0					
ROTZ	e PKPdf	Z 09:30:50.3	127.7	48.3					
WET	e PKPdf	Z 09:30:50.7	127.8	49.4					
IBBN	e PKPdf	Z 09:30:50.1	127.9	41.9					
GRA1	e PKPdf	Z 09:30:51.2	128.3	47.2					
TNS	e PKPdf	Z 09:30:53.2	129.2	43.8					
FUR	e PKPdf	Z 09:30:53.9	129.3	48.2					
STU	e PKPdf	Z 09:30:55.1	129.8	45.5					
BFO	e PKPdf	Z 09:30:55.9	130.6	44.8					

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WLF e PKPdf Z 09:30:56.7 130.6 41.4

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/03 10:40:36.5 6.800S 155.700E 10.0  
Bougainville - Solomon Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GRA1 e PKPdf Z 10:59:42.2 127.8 46.9

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/03 11:57:31.4 7.800S 155.600E 10.0  
Bougainville - Solomon Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
BRG e PKPdf Z 12:16:34.3 126.6 49.9  
e PP Z 12:18:34.4  
CLL e PKPdf Z 12:16:36.2 126.7 48.7  
e PP Z 12:18:35.1  
CLZ e PKPdf Z 12:16:36.6 127.6 45.5  
e PP Z 12:18:40.5  
MOX e PKPdf Z 12:16:37.5 127.8 47.5  
e PP Z 12:18:43.1  
GEC2 e PKPdf Z 12:16:36.8 128.0 50.9  
MANZ e PKPdf Z 12:16:37.5 128.0 48.4  
ROTZ e PKPdf Z 12:16:37.6 128.1 48.7  
e PP Z 12:18:44.6  
WET e PKPdf Z 12:16:37.0 128.2 49.8  
e PP Z 12:18:45.9  
IBBN e PP Z 12:18:45.0 128.3 42.2  
UBBA e PKPdf Z 12:16:39.4 128.4 45.6  
GRA1 e PKPdf Z 12:16:38.3 128.6 47.6  
TNS e PKPdf Z 12:16:42.1 129.6 44.2  
e PP Z 12:18:53.8  
BFO e PP Z 12:19:03.4 131.0 45.2  
WLF e PKPdf Z 12:16:42.4 131.0 41.8  
e PP Z 12:19:03.2

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/03 12:04:28.0 7.800S 155.800E 10.0  
Bougainville - Solomon Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
BRG e PKPdf Z 12:23:32.1 126.7 49.7

CLL	e PKPdf	Z	12:23:32.6	126.8	48.4				
	e PP	Z	12:25:29.9						
	e SKPdf	Z	12:26:58.1						
	e (PPP)	Z	12:28:07.8						
	e (SKKSac)	N	12:32:27.4						
	e PS	E	12:35:31.9						
	e PPS	E	12:37:04.7						
	e SS	N	12:42:37.5						
	e SSS	E	12:47:24.6						
	e (SSSS)	E	12:51:38.6						
	e LR	Z	13:05:32.8						
	NRDL	e PKPdf	Z	12:23:33.2	127.3	44.6			
		e PP	Z	12:25:31.4					
	CLZ	e PKPdf	Z	12:23:34.3	127.6	45.2			
e PP		Z	12:25:34.7						
MOX	e PKPdf	Z	12:23:34.2	127.9	47.3				
	e PP	Z	12:25:37.2						
GEC2	e PKPdf	Z	12:23:34.5	128.1	50.6				
MANZ	e PKPdf	Z	12:23:34.7	128.1	48.2				
ROTZ	e PKPdf	Z	12:23:34.8	128.2	48.5				
	e PP	Z	12:25:37.2						
WET	e PKPdf	Z	12:23:35.1	128.3	49.6				
IBBN	e PKPdf	Z	12:23:35.8	128.4	42.0				
UBBA	e PKPdf	Z	12:23:35.4	128.5	45.4				
GRA1	e PKPdf	Z	12:23:36.2	128.7	47.4				
	e PP	Z	12:25:43.5						
	e L	Z	13:23:58.0			21.2	2768	5.9	
TNS	e PKPdf	Z	12:23:37.8	129.6	44.0				
	e PP	Z	12:25:49.3						
FUR	e PKPdf	Z	12:23:38.4	129.7	48.4				
STU	e PKPdf	Z	12:23:39.4	130.3	45.7				
BFO	e PKPdf	Z	12:23:39.9	131.1	44.9				
	e PP	Z	12:25:57.7						
WLF	e PKPdf	Z	12:23:41.3	131.1	41.6				

Date 2007/04/03  
 Origin Time 12:29:18.8  
 Lat 19.587S  
 Long 178.419W  
 Depth 33.0N  
 mb  
 Ms  
 ML  
 Source SZGRF  
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	12:48:57.8	147.0	20.0					
	e PKPab	Z	12:49:00.7							
BRG	e PKPbc	Z	12:48:58.8	147.2	21.9					
	e PKPab	Z	12:49:01.9							
FBE	e PKPbc	Z	12:48:59.0	147.3	20.9					
	e PKPab	Z	12:49:02.3							
MOX	e PKPbc	Z	12:49:00.7	147.9	18.0					

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	e	PKPab	Z	12:49:04.1								
WERD	e	PKPbc	Z	12:49:00.4	148.0	19.3						
	e	PKPab	Z	12:49:04.7								
GUNZ	e	PKPbc	Z	12:49:00.8	148.1	19.4						
	e	PKPab	Z	12:49:05.3								
WERN	e	PKPbc	Z	12:49:01.6	148.1	19.5						
	e	PKPab	Z	12:49:05.7								
MANZ	e	PKPbc	Z	12:49:02.0	148.5	19.2						
ROTZ	e	PKPbc	Z	12:49:02.4	148.7	19.5						
GRA1	e	PKPbc	Z	12:49:03.0	148.9	17.8						
GEC2	e	PKPbc	Z	12:49:03.7	149.2	22.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:55:57.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	14:48:48.7	21.190S	170.190E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 15:08:21.2	145.0	40.9					
CLL	e PKPbc	Z 15:08:21.3	145.0	39.1					
NRDL	e PKPbc	Z 15:08:21.7	145.1	33.8					
CLZ	e PKPbc	Z 15:08:23.1	145.6	34.7					
TANN	e PKPbc	Z 15:08:24.4	145.9	39.1					
IBBN	e PKPbc	Z 15:08:25.0	146.1	30.3					
MOX	e PKPbc	Z 15:08:25.0	146.1	37.6					
MANZ	e PKPbc	Z 15:08:25.2	146.4	39.0					
ROTZ	e PKPbc	Z 15:08:26.7	146.5	39.3					
GEC2	e PKPbc	Z 15:08:26.3	146.6	42.5					
GRA1	e PKPbc	Z 15:08:28.2	147.0	37.9					
BFO	e PKPbc	Z 15:08:33.7	149.2	34.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	15:19:40.2	21.290S	168.270E	27.4				SZGRF
Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 15:39:12.2	145.0	37.6					
	e pPKPbc	Z 15:39:20.6							

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TANN	e	PKPbc	Z	15:39:13.0	145.2	42.0
	e	pPKPbc	Z	15:39:21.7		
MOX	e	PKPbc	Z	15:39:13.9	145.4	40.6
	e	pPKPbc	Z	15:39:22.3		
IBBN	e	PKPbc	Z	15:39:14.0	145.5	33.3
	e	pPKPbc	Z	15:39:22.6		
MANZ	e	PKPbc	Z	15:39:15.3	145.7	41.9
	e	pPKPbc	Z	15:39:23.3		
GEC2	e	PKPbc	Z	15:39:15.6	145.8	45.4
	e	pPKPbc	Z	15:39:23.9		
ROTZ	e	PKPbc	Z	15:39:15.1	145.8	42.3
	e	pPKPbc	Z	15:39:23.7		
UBBA	e	PKPbc	Z	15:39:16.2	145.9	38.0
	e	pPKPbc	Z	15:39:24.2		
WET	e	PKPbc	Z	15:39:16.7	146.0	43.9
	e	pPKPbc	Z	15:39:24.5		
GRA1	e	PKPbc	Z	15:39:17.3	146.3	40.9
	e	pPKPbc	Z	15:39:25.4		
TNS	e	PKPbc	Z	15:39:19.4	147.0	36.2
	e	pPKPbc	Z	15:39:27.5		
WLF	e	PKPbc	Z	15:39:23.7	148.3	33.0
	e	pPKPbc	Z	15:39:31.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	15:27: 4.7	7.200S	155.400E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 15:46:11.9	128.0	47.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	17:25:58.3	8.800S	157.500E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 17:45:10.9	130.4	46.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	18:14: 3.1	44.089N	149.937E	33.0N	4.8			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:26:07.1	79.5	28.8	0.8	10	4.8		



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	18:17:32.0	44.592N	149.726E	37.5	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 18:29:21.0	77.1	30.1	0.8	15	5.2		
CLZ	e P	Z 18:29:23.2	77.4	28.4	1.0	14	5.1		
MANZ	e P	Z 18:29:29.2	78.5	29.3	1.1	8	4.7		
ROTZ	e P	Z 18:29:30.7	78.7	29.4	1.2	9	4.7		
GEC2	e P	Z 18:29:31.9	79.0	30.2	0.7	7	4.8		
WET	e P	Z 18:29:32.0	79.0	29.7	1.0	16	5.0		
GRA1	e P	Z 18:29:32.5	79.0	28.7	1.0	25	5.2		
	e pP	Z 18:29:43.3							
TNS	e P	Z 18:29:34.2	79.4	26.9	0.9	7	4.6		
BFO	e P	Z 18:29:43.2	81.1	26.7	1.1	10	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 19:40:11.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	19:40:57.8	7.100S	155.300E	31.4				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 20:00:00.1	125.8	49.8					
	e pPKPdf	Z 20:00:09.7							
CLL	e PKPdf	Z 20:00:00.3	126.0	48.6					
NRDL	e PKPdf	Z 20:00:01.7	126.5	44.8					
	e pPKPdf	Z 20:00:11.3							
CLZ	e PKPdf	Z 20:00:02.3	126.8	45.4					
	e pPKPdf	Z 20:00:12.2							
TANN	e PKPdf	Z 20:00:02.2	126.8	48.5					
	e pPKPdf	Z 20:00:11.9							
MOX	e PKPdf	Z 20:00:02.5	127.1	47.4					
GEC2	e PKPdf	Z 20:00:02.8	127.2	50.7					
MANZ	e PKPdf	Z 20:00:03.5	127.3	48.3					
ROTZ	e PKPdf	Z 20:00:02.8	127.4	48.6					
WET	e PKPdf	Z 20:00:03.5	127.4	49.7					
IBBN	e PKPdf	Z 20:00:04.4	127.6	42.2					

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	e pPKPdf	Z	20:00:13.3		
GRA1	e PKPdf	Z	20:00:03.9	127.9	47.5
	e pPKPdf	Z	20:00:13.8		
TNS	e PKPdf	Z	20:00:06.4	128.8	44.1
STU	e PKPdf	Z	20:00:07.3	129.5	45.8
WLF	e PKPdf	Z	20:00:10.1	130.2	41.8
	e pPKPdf	Z	20:00:19.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	20:23:54.6	2.260S	103.860E	311.7N	5.4			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:36:28.1	91.7	91.5	0.7	19	5.6		
GEC2	e P	Z	20:36:28.2	91.8	91.4	0.8	16	5.5		
CLL	e P	Z	20:36:30.2	92.3	90.7	1.2	14	5.2		
WET	e P	Z	20:36:30.6	92.4	90.7	0.8	16	5.4		
TANN	e P	Z	20:36:32.0	92.6	90.4	0.8	8	5.1		
ROTZ	e P	Z	20:36:33.0	92.8	90.2	0.9	14	5.3		
MANZ	e P	Z	20:36:33.5	92.9	90.1	0.9	17	5.4		
MOX	e P	Z	20:36:34.4	93.2	89.7	0.9	10	5.3		
GRA1	e P	Z	20:36:35.7	93.4	89.5	1.0	24	5.6		
CLZ	e P	Z	20:36:37.5	93.9	88.7	1.0	8	5.2		
NRDL	e P	Z	20:36:39.0	94.1	88.4	1.5	25	5.5		
TNS	e P	Z	20:36:43.8	95.2	87.3	1.0	20	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	20:26:10.5	21.210S	170.150E	41.0		6.1		NEIC

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPab	Z	20:45:42.1	145.0	40.9					
CLL	e PKPab(1)	Z	20:45:42.8	145.0	39.2					
	e PKPab(2)	Z	20:45:46.6							
	e PP	Z	20:48:57.7							
	e PPS	N	21:01:35.8							
	e SS	N	21:07:55.7							
	e SSS	N	21:13:10.0							
CLZ	e PKPab	Z	20:45:44.8	145.6	34.8					
TANN	e PKPab	Z	20:45:46.1	145.9	39.2					
WERD	e PKPab	Z	20:45:46.5	146.0	38.9					
GUNZ	e PKPab	Z	20:45:46.8	146.0	39.0					
IBBN	e PKPab	Z	20:45:46.6	146.1	30.3					
WERN	e PKPab	Z	20:45:46.5	146.1	39.2					
MOX	e PKPab	Z	20:45:46.2	146.1	37.7					

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MANZ	e	PKPab	Z	20:45:48.2	146.4	39.1					
ROTZ	e	PKPab	Z	20:45:48.4	146.5	39.4					
UBBA	e	PKPab	Z	20:45:48.2	146.6	35.1					
GEC2	e	PKPab	Z	20:45:48.1	146.6	42.6					
WET	e	PKPab	Z	20:45:48.9	146.7	41.0					
GRA1	e	PKPab	Z	20:45:49.6	147.0	38.0					
	e	SS	E	21:08:10.4							
	e	L	Z	21:56:48.8			19.2	3313		6.1	
TNS	e	PKPab	Z	20:45:51.8	147.6	33.1					
FUR	e	PKPab	Z	20:45:54.2	148.2	39.6					
STU	e	PKPab	Z	20:45:55.4	148.5	35.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	20:44:57.1	45.754N	153.713E	33.0N	4.8			SZGRF
East of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	20:56:47.3	77.2	26.9	0.5	15	5.4		
BRG	e P	Z	20:56:49.4	77.3	27.5	0.9	4	4.6		
CLZ	e P	Z	20:56:49.5	77.4	25.3	1.3	29	5.3		
MOX	e P	Z	20:56:54.4	78.2	26.0	1.3	8	4.6		
MANZ	e P	Z	20:56:57.4	78.6	26.2	1.0	5	4.5		
ROTZ	e P	Z	20:56:58.3	78.8	26.3	1.2	10	4.7		
GRA1	e P	Z	20:56:59.0	79.2	25.6	1.3	26	5.1		
WET	e P	Z	20:57:00.4	79.2	26.7	1.0	9	4.7		
GEC2	e P	Z	20:57:00.7	79.2	27.2	0.7	4	4.5		
TNS	e P	Z	20:57:00.8	79.4	23.9	0.6	8	4.8		
BFO	e P	Z	20:57:10.1	81.2	23.6	1.2	17	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	21:19:38.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/03	22:17:42.9	6.700S	154.800E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	22:36:44.2	125.2	50.1					
CLL	e PKPdf	Z	22:36:43.3	125.4	48.9					
NRDL	e PKPdf	Z	22:36:44.4	125.9	45.1					

CLZ	e	PKPdf	Z	22:36:45.9	126.2	45.7
TANN	e	PKPdf	Z	22:36:45.7	126.2	48.8
MOX	e	PKPdf	Z	22:36:45.6	126.5	47.7
GEC2	e	PKPdf	Z	22:36:46.2	126.6	51.0
MANZ	e	PKPdf	Z	22:36:47.2	126.7	48.6
ROTZ	e	PKPdf	Z	22:36:47.3	126.8	48.9
WET	e	PKPdf	Z	22:36:46.5	126.8	49.9
UBBA	e	PKPdf	Z	22:36:47.8	127.1	45.9
GRA1	e	PKPdf	Z	22:36:47.8	127.3	47.8
FUR	e	PKPdf	Z	22:36:49.9	128.3	48.8
STU	e	PKPdf	Z	22:36:51.2	128.9	46.1
WLF	e	PKPdf	Z	22:36:53.3	129.6	42.1

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/03

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKP	Z	23:39:51.5					

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/04 00:39:44.7 7.100S 156.100E 10.0 5.5 ML NEIC  
Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	PKPdf	Z	00:58:45.3	125.2	47.9			
BRG	e	PKPdf	Z	00:58:47.2	126.2	49.0			
CLL	i	PKPdf	+ Z	00:58:47.2	126.3	47.7	0.8	100	
	e	PP	Z	01:00:44.7					
	e	PKSdf	Z	01:02:16.1					
	e	PPP	Z	01:03:34.8					
	e	SP	Z	01:10:32.8					
	e	PPS	Z	01:12:20.8					
	e	SS	N	01:17:47.6					
FBE	e	PKPdf	Z	00:58:47.8	126.4	48.3			
NRDL	e	PKPdf	Z	00:58:48.6	126.8	43.9			
CLZ	e	PKPdf	Z	00:58:49.4	127.1	44.5			
TANN	e	PKPdf	Z	00:58:49.2	127.2	47.6			
WERD	e	PKPdf	Z	00:58:49.3	127.2	47.4			
	e	PP	Z	01:00:51.0					
GUNZ	e	PKPdf	Z	00:58:49.6	127.3	47.5			
WERN	e	PKPdf	Z	00:58:49.6	127.3	47.6			
MOX	e	PKPdf	Z	00:58:49.5	127.4	46.5			
GEC2	e	PKPdf	Z	00:58:49.9	127.6	49.9			
MANZ	e	PKPdf	Z	00:58:50.2	127.6	47.5			
ROTZ	e	PKPdf	Z	00:58:50.2	127.7	47.7			

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WET	e	PKPdf	Z	00:58:50.5	127.8	48.8						
IBBN	e	PKPdf	Z	00:58:50.6	127.9	41.3						
UBBA	e	PKPdf	Z	00:58:50.9	128.0	44.6						
GRA1	e	PKPdf	Z	00:58:51.2	128.3	46.6						
	e	PP	Z	01:00:54.2								
	e	SKKPbc	Z	01:11:59.3								
	e	SKKPdf	Z	01:12:30.5								
	e	L	Z	01:57:57.4			21.5		1046		5.5	
TNS	e	PKPdf	Z	00:58:53.1	129.2	43.2						
FUR	e	PKPdf	Z	00:58:53.1	129.3	47.6						
STU	e	PKPdf	Z	00:58:54.5	129.9	44.9						
WLF	e	PKPdf	Z	00:58:56.6	130.6	40.8						
BFO	e	PKPdf	Z	00:58:55.5	130.6	44.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	02:56:20.5	43.609N	149.125E	33.0N	4.5			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:08:25.5	79.7	29.6	1.0	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	06:09:42.4	6.800S	155.000E	10.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 06:28:47.8	127.5	47.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	06:34:34.8	7.800S	156.500E	10.0		6.1		NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z 06:53:38.1	126.0	47.9					
BRG	e PKPdf	Z 06:53:40.0	127.0	48.9					
CLL	e PKPdf	Z 06:53:40.0	127.1	47.7					
FBE	e PKPdf	Z 06:53:40.6	127.2	48.3					
NRDL	e PKPdf	Z 06:53:41.3	127.6	43.8					
CLZ	e PKPdf	Z 06:53:42.1	127.9	44.4					
TANN	e PKPdf	Z 06:53:42.0	128.0	47.6					
WERD	e PKPdf	Z 06:53:42.0	128.0	47.4					
GUNZ	e PKPdf	Z 06:53:42.3	128.1	47.5					
WERN	e PKPdf	Z 06:53:42.4	128.1	47.6					

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MOX	e	PKPdf	Z	06:53:42.3	128.2	46.5						
GEC2	e	PKPdf	Z	06:53:42.7	128.4	49.9						
MANZ	e	PKPdf	Z	06:53:42.9	128.5	47.4						
ROTZ	e	PKPdf	Z	06:53:43.0	128.6	47.7						
WET	e	PKPdf	Z	06:53:43.3	128.6	48.8						
IBBN	e	PKPdf	Z	06:53:43.4	128.7	41.2						
UBBA	e	PKPdf	Z	06:53:43.5	128.8	44.6						
GRA1	e	PKPdf	Z	06:53:44.0	129.1	46.6						
	e	PP	Z	06:55:52.8								
	e	SKKPbc	Z	07:06:52.6								
	e	SS	T	07:13:09.3								
	e	L	Z	07:52:46.7			20.9	4394		6.1		
TNS	e	PKPdf	Z	06:53:45.9	130.0	43.1						
FUR	e	PKPdf	Z	06:53:45.8	130.1	47.6						
STU	e	PKPdf	Z	06:53:47.1	130.7	44.9						
WLF	e	PKPdf	Z	06:53:49.1	131.4	40.8						
BFO	e	PKPdf	Z	06:53:48.2	131.4	44.1						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:59:31.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	09:46:12.9	6.400S	154.200E	10.0				NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:05:19.2	126.7	48.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	10:16:10.9	43.472N	149.479E	33.0N	4.5			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:28:17.2	80.0	29.4	0.7	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	11:00:22.5	21.610S	170.280E	33.0G		6.4		SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	11:19:59.2	145.4	41.1					
CLL	e PKPpre	Z	11:19:59.6	145.4	39.3					
	i PKPdf	+ Z	11:20:02.7			1.2	130			
	e PP	Z	11:23:21.0							
	e PKS	Z	11:23:46.3							
	e SKKSac	N	11:30:12.2							
	e PSKS	Z	11:33:31.8							
	e SS	E	11:42:12.9							
NRDL	e PKPbc	Z	11:20:00.0	145.6	33.9					
FBE	e PKPbc	Z	11:20:00.1	145.6	40.2					
CLZ	e PKPbc	Z	11:20:01.8	146.0	34.8					
TANN	e PKPbc	Z	11:20:02.8	146.3	39.3					
WERD	e PKPbc	Z	11:20:02.8	146.4	39.0					
GUNZ	e PKPbc	Z	11:20:03.2	146.4	39.2					
IBBN	e PKPbc	Z	11:20:03.0	146.5	30.4					
WERN	e PKPbc	Z	11:20:03.4	146.5	39.3					
MOX	e PKPbc	Z	11:20:03.1	146.5	37.8					
MANZ	e PKPbc	Z	11:20:04.5	146.8	39.2					
ROTZ	e PKPbc	Z	11:20:05.0	147.0	39.5					
UBBA	e PKPbc	Z	11:20:04.8	147.0	35.1					
GEC2	e PKPbc	Z	11:20:04.8	147.0	42.7					
WET	e PKPbc	Z	11:20:05.5	147.1	41.2					
GRA1	e PKPbc	Z	11:20:06.5	147.4	38.1					
	e SS	T	11:42:37.7							
	e L	Z	12:29:40.2			20.6	6540		6.4	
GRFO	e PKPbc	Z	11:20:06.6	147.4	38.1					
TNS	e PKPbc	Z	11:20:08.1	148.0	33.2					
FUR	e PKPbc	Z	11:20:09.5	148.6	39.7					
STU	e PKPbc	Z	11:20:10.5	148.9	35.7					
WLF	e PKPbc	Z	11:20:11.8	149.3	29.8					
BFO	e PKPbc	Z	11:20:12.0	149.6	34.7					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/04 11:02:31.4 21.690S 170.590E 33.0N  
 Southeast of Loyalty Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e PKPbc	Z	11:22:03.1	145.0	28.8					
BRG	e PKPbc	Z	11:22:05.2	145.6	40.7					
CLL	e PKPbc	Z	11:22:05.1	145.6	38.9					
NRDL	e PKPbc	Z	11:22:05.8	145.7	33.5					
FBE	e PKPbc	Z	11:22:06.1	145.8	39.8					
CLZ	e PKPbc	Z	11:22:07.6	146.2	34.4					
TANN	e PKPbc	Z	11:22:08.7	146.5	38.9					
WERD	e PKPbc	Z	11:22:08.8	146.6	38.6					

GUNZ	e	PKPbc	Z	11:22:09.2	146.6	38.7
IBBN	e	PKPbc	Z	11:22:08.9	146.6	29.9
WERN	e	PKPbc	Z	11:22:09.4	146.7	38.9
MOX	e	PKPbc	Z	11:22:09.1	146.7	37.4
MANZ	e	PKPbc	Z	11:22:10.4	147.0	38.8
ROTZ	e	PKPbc	Z	11:22:10.9	147.2	39.1
UBBA	e	PKPbc	Z	11:22:10.7	147.2	34.7
GEC2	e	PKPbc	Z	11:22:10.7	147.2	42.3
WET	e	PKPbc	Z	11:22:11.5	147.3	40.8
GRA1	e	PKPbc	Z	11:22:13.0	147.6	37.7
TNS	e	PKPbc	Z	11:22:14.9	148.2	32.7
FUR	e	PKPbc	Z	11:22:15.2	148.8	39.3
STU	e	PKPbc	Z	11:22:16.3	149.1	35.3
WLF	e	PKPbc	Z	11:22:17.7	149.4	29.4
BFO	e	PKPbc	Z	11:22:19.3	149.8	34.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	13:05:32.4	23.700S	169.400E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e	PKPbc	Z	13:25:12.9	147.6	37.7			
TANN	e	PKPbc	Z	13:25:13.7	147.8	42.4			
WERD	e	PKPbc	Z	13:25:13.8	147.9	42.1			
GUNZ	e	PKPbc	Z	13:25:14.0	147.9	42.2			
WERN	e	PKPbc	Z	13:25:14.3	148.0	42.4			
GEC2	e	PKPbc	Z	13:25:15.1	148.4	46.0			
GRA1	e	PKPbc	Z	13:25:16.6	148.9	41.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	13:35:42.9	20.171S	169.943E	331.2				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z	13:54:37.1	144.0	40.5			
CLL	e	pPKPbc	Z	13:55:58.5	144.0	38.7			
FBE	e	pPKPbc	Z	13:55:59.5	144.2	39.6			
CLZ	e	PKPbc	Z	13:54:39.0	144.5	34.4			
TANN	e	PKPbc	Z	13:54:40.0	144.9	38.7			
	e	pPKPbc	Z	13:56:02.5					
WERD	e	PKPbc	Z	13:54:40.3	144.9	38.5			
	e	pPKPbc	Z	13:56:01.4					
GUNZ	e	PKPbc	Z	13:54:41.0	145.0	38.6			
	e	pPKPbc	Z	13:56:02.0					
IBBN	e	PKPbc	Z	13:54:40.7	145.0	30.1			



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WERN	e	PKPbc	Z	13:54:40.9	145.0	38.7
	e	pPKPbc	Z	13:56:02.2		
MOX	e	PKPbc	Z	13:54:40.9	145.1	37.3
	e	pPKPbc	Z	13:56:02.3		
MANZ	e	PKPbc	Z	13:54:41.6	145.4	38.6
	e	pPKPbc	Z	13:56:03.6		
GEC2	e	PKPbc	Z	13:54:41.8	145.6	42.0
	e	pPKPbc	Z	13:56:03.8		
GRA1	e	PKPbc	Z	13:54:43.8	146.0	37.5
	e	pPKPbc	Z	13:56:05.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	15:38:15.1	26.250S	168.500E	39.0				SZGRF
New Caledonia region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	pPKPbc	Z 15:58:08.8	148.7	47.8					
FBE	e	PKPbc	Z 15:57:58.2	148.9	46.9					
	e	pPKPbc	Z 15:58:11.5							
TANN	e	PKPbc	Z 15:58:00.8	149.7	46.2					
	e	pPKPbc	Z 15:58:12.3							
WERD	e	PKPbc	Z 15:58:00.5	149.7	45.9					
	e	pPKPbc	Z 15:58:12.5							
GUNZ	e	PKPbc	Z 15:58:01.3	149.8	46.0					
	e	pPKPbc	Z 15:58:12.7							
WERN	e	PKPbc	Z 15:58:01.0	149.8	46.2					
	e	pPKPbc	Z 15:58:12.8							
MOX	e	PKPbc	Z 15:58:01.0	149.9	44.6					
	e	pPKPbc	Z 15:58:12.7							
GEC2	e	PKPbc	Z 15:58:01.9	150.1	50.0					
	e	pPKPbc	Z 15:58:14.1							
MANZ	e	PKPbc	Z 15:58:02.3	150.1	46.1					
	e	pPKPbc	Z 15:58:13.8							
ROTZ	e	PKPbc	Z 15:58:02.6	150.2	46.6					
	e	pPKPbc	Z 15:58:14.2							
GRA1	e	PKPbc	Z 15:58:04.0	150.7	45.1					
	e	pPKPbc	Z 15:58:15.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKPbc	Z 16:09:04.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	16:38:43.7	21.300S	169.970E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	16:58:16.2	145.0	41.3					
CLL	e PKPbc	Z	16:58:16.5	145.0	39.5					
FBE	e PKPbc	Z	16:58:17.0	145.2	40.4					
CLZ	e PKPbc	Z	16:58:18.0	145.6	35.1					
TANN	e PKPbc	Z	16:58:19.3	145.9	39.5					
WERD	e PKPbc	Z	16:58:19.8	146.0	39.3					
GUNZ	e PKPbc	Z	16:58:19.5	146.0	39.4					
WERN	e PKPbc	Z	16:58:20.2	146.1	39.5					
IBBN	e PKPbc	Z	16:58:19.7	146.1	30.7					
MOX	e PKPbc	Z	16:58:19.4	146.1	38.0					
MANZ	e PKPbc	Z	16:58:20.8	146.4	39.4					
ROTZ	e PKPbc	Z	16:58:21.1	146.5	39.8					
UBBA	e PKPbc	Z	16:58:21.5	146.6	35.4					
GEC2	e PKPbc	Z	16:58:20.9	146.6	42.9					
WET	e PKPbc	Z	16:58:21.7	146.7	41.4					
GRA1	e PKPbc	Z	16:58:22.1	147.0	38.3					
TNS	e PKPbc	Z	16:58:24.7	147.6	33.5					
FUR	e PKPbc	Z	16:58:26.5	148.2	39.9					
STU	e PKPbc	Z	16:58:27.2	148.5	36.0					
WLF	e PKPbc	Z	16:58:28.1	148.9	30.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	17:40:57.6	25.100S	177.100W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	18:00:50.9	152.7	20.2					
BRG	e PKPbc	Z	18:00:51.5	152.9	22.4					
FBE	e PKPbc	Z	18:00:52.2	153.0	21.2					
MOX	e PKPbc	Z	18:00:52.9	153.6	18.0					
TANN	e PKPbc	Z	18:00:53.4	153.6	19.8					
WERD	e PKPbc	Z	18:00:53.4	153.6	19.5					
GUNZ	e PKPbc	Z	18:00:53.7	153.7	19.6					
WERN	e PKPbc	Z	18:00:53.8	153.8	19.7					
MANZ	e PKPbc	Z	18:00:54.5	154.1	19.4					
GEC2	e PKPbc	Z	18:00:55.7	154.8	23.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	18:07: 0.1	19.894S	170.659E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z	18:26:32.6	145.0	37.2					
GUNZ	e PKPbc	Z	18:26:32.8	145.0	37.3					
MANZ	e PKPbc	Z	18:26:34.1	145.4	37.3					
ROTZ	e PKPbc	Z	18:26:34.5	145.6	37.6					
GRA1	e PKPbc	Z	18:26:36.0	146.0	36.2					
WLF	e PKPbc	Z	18:26:42.2	147.8	28.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	18:53:44.9	31.072N	141.007E	33.0N	5.2			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	19:06:15.7	84.6	43.2	1.3	55	5.6		
BRG	e P	Z	19:06:20.6	85.7	43.3	0.9	6	4.7		
CLL	e P	Z	19:06:20.8	85.8	42.6	1.0	19	5.2		
FBE	e P	Z	19:06:22.1	85.9	42.8	2.7	202	5.8		
NRDL	e P	Z	19:06:22.7	86.1	40.5	1.2	15	5.0		
CLZ	e P	Z	19:06:24.4	86.5	40.6	1.2	24	5.2		
WERD	e P	Z	19:06:25.2	86.7	42.0	1.5	11	4.8		
IBBN	e P	Z	19:06:27.7	87.2	38.7	0.9	28	5.4		
ROTZ	e P	Z	19:06:28.5	87.3	41.9	1.8	27	5.3		
GRA1	e P	Z	19:06:31.0	87.8	41.2	1.7	30	5.4		
BFO	e P	Z	19:06:41.2	90.0	39.0	1.1	16	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	19:58: 3.6	17.484S	67.198E	33.0N	5.3			SZGRF

Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:10:27.6	83.3	127.3	1.8	37	5.3		
CLL	e P	Z	20:10:28.9	83.2	128.8	1.9	80	5.6		
	e S	E	20:20:49.8							
	e SS	N	20:26:16.9							
	e SSS	N	20:29:36.7							
	e SSSS	E	20:32:24.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	21:40:25.3	31.372N	141.883E	40.1	5.7	5.5		SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	21:52:56.3	84.7	42.4	2.1	354	6.2		
BRG	e P	Z	21:53:01.7	85.8	42.5	2.1	147	5.7		
CLL	e P	Z	21:53:01.7	85.9	41.8	2.0	170	5.8		
FBE	e P	Z	21:53:02.9	86.1	42.0	2.1	236	6.0		
NRDL	e P	Z	21:53:03.5	86.2	39.7	1.9	107	5.7		
CLZ	e P	Z	21:53:05.6	86.6	39.8	1.9	132	5.7		
TANN	e P	Z	21:53:06.6	86.8	41.3	1.9	58	5.4		
WERD	e P	Z	21:53:06.7	86.8	41.2	2.1	83	5.5		
	e PP	Z	21:56:30.0							
GUNZ	e P	Z	21:53:07.1	86.9	41.2	2.1	142	5.7		
WERN	e P	Z	21:53:07.3	86.9	41.3	1.7	69	5.5		
MOX	e P	Z	21:53:07.3	87.0	40.7	2.0	97	5.6		
	e PP	Z	21:56:31.9							
IBBN	e P	Z	21:53:08.3	87.2	37.9	1.7	179	6.1		
MANZ	e P	Z	21:53:08.9	87.3	41.1	1.9	64	5.6		
ROTZ	e P	Z	21:53:09.6	87.4	41.1	2.0	84	5.7		
GEC2	e P	Z	21:53:09.1	87.4	42.2	1.4	17	5.2		
UBBA	e P	Z	21:53:09.7	87.5	39.5	1.8	51	5.6		
	e PP	Z	21:56:35.7							
WET	e P	Z	21:53:10.3	87.6	41.6	1.9	59	5.6		
	e PP	Z	21:56:37.9							
GRA1	e P	Z	21:53:11.9	87.9	40.4	1.9	152	6.0		
	e pP	Z	21:53:23.6							
	e S	T	22:03:51.1							
	e SS	T	22:09:43.7							
	e L	Z	22:39:29.6			18.0	1860		5.5	
GRFO	e P	Z	21:53:11.9	87.9	40.4	1.9	140	6.0		
TNS	e P	Z	21:53:15.0	88.6	38.3	1.6	38	5.4		
	e PP	Z	21:56:45.7							
FUR	e P	Z	21:53:17.0	89.0	40.4	2.0	152	5.9		
STU	e P	Z	21:53:18.6	89.4	38.9	1.8	71	5.6		
WLF	e P	Z	21:53:21.7	89.9	36.6	2.0	96	5.7		
BFO	e P	Z	21:53:21.8	90.1	38.2	1.4	39	5.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/04 22:44:54.8 43.861N 149.392E 33.0N 5.1 4.8  
East of Kuril Islands, Russia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	22:56:47.2	77.6	30.6	1.0	31			
BRG	e P	Z	22:56:48.0	77.7	31.2	1.3	20			
CLZ	e P	Z	22:56:50.0	78.0	28.9	1.4	45			
MOX	e P	Z	22:56:53.3	78.6	29.6	2.8	171			
MANZ	e P	Z	22:56:55.7	79.0	29.9	1.0	12			
ROTZ	e P	Z	22:56:56.8	79.2	29.9	1.2	26			
GEC2	e P	Z	22:56:58.1	79.5	30.8	0.8	9			

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WET	e P	Z	22:56:58.7	79.5	30.3	0.9	22		
GRA1	e P	Z	22:56:59.0	79.6	29.3	0.9	30	5.1	
	e L	Z	23:31:09.1			21.7	472		4.8
TNS	e P	Z	22:57:00.7	80.0	27.5	1.0	18		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	23:04: 4.5	44.144N	149.948E	44.1	5.2	4.9		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 23:15:56.3	77.4	28.3	2.0	96	5.6		
CLL	e P	Z 23:15:56.8	77.5	30.1	0.7	41	5.7		
BRG	e P	Z 23:15:57.2	77.6	30.7	0.9	12	5.0		
CLZ	e P	Z 23:15:59.1	77.9	28.4	0.9	26	5.4		
IBBN	e P	Z 23:16:00.8	78.2	26.7	0.8	22	5.2		
TANN	e P	Z 23:16:02.2	78.5	29.7	0.9	8	4.7		
MOX	e P	Z 23:16:02.5	78.5	29.1	0.8	12	4.9		
UBBA	e P	Z 23:16:04.2	78.9	28.1	2.4	66	5.2		
MANZ	e P	Z 23:16:04.9	79.0	29.4	1.1	23	5.1		
ROTZ	e P	Z 23:16:05.8	79.1	29.4	0.9	18	5.1		
GEC2	e P	Z 23:16:07.4	79.4	30.3	0.6	18	5.1		
WET	e P	Z 23:16:07.8	79.5	29.8	0.9	36	5.3		
GRA1	e P	Z 23:16:08.3	79.5	28.8	0.8	46	5.4		
	e pP	Z 23:16:21.0							
	e L	Z 23:50:48.9			19.7	610		4.9	
TNS	e P	Z 23:16:09.8	79.9	27.0	0.7	13	5.0		
FUR	e P	Z 23:16:15.3	80.8	28.7	0.9	52	5.6		
STU	e P	Z 23:16:15.4	80.9	27.4	0.9	28	5.3		
WLF	e P	Z 23:16:17.3	81.0	25.4	1.4	17	4.9		
BFO	e P	Z 23:16:18.9	81.6	26.8	1.0	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/04	23:30:45.7	44.346N	149.474E	33.0N	4.3			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:42:47.6	79.2	29.0	1.0	4	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	01:16: 6.8	18.750S	177.620W	587.6				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLZ	e	PKPbc	Z	01:34:41.7	146.3	13.7
CLL	e	PKPbc	Z	01:34:42.2	146.4	18.4
BRG	e	PKPbc	Z	01:34:42.9	146.6	20.2
MOX	e	PKPbc	Z	01:34:44.3	147.3	16.3
	e	pPKPbc	Z	01:36:55.7		
TANN	e	PKPbc	Z	01:34:44.5	147.3	17.9
MANZ	e	PKPbc	Z	01:34:46.3	147.8	17.5
ROTZ	e	PKPbc	Z	01:34:46.6	148.0	17.8
	e	pPKPbc	Z	01:37:01.1		
TNS	e	PKPbc	Z	01:34:47.0	148.2	10.9
GRA1	e	PKPbc	Z	01:34:47.3	148.3	16.1
	e	pPKPbc	Z	01:37:02.6		
WET	e	PKPbc	Z	01:34:47.3	148.5	19.3
	e	pPKPbc	Z	01:37:02.8		
GEC2	e	PKPbc	Z	01:34:48.0	148.5	20.9
WLF	e	PKPbc	Z	01:34:49.3	148.9	6.9
	e	pPKPbc	Z	01:37:04.3		
STU	e	PKPbc	Z	01:34:49.7	149.5	12.8
FUR	e	PKPbc	Z	01:34:50.4	149.7	16.9
BFO	e	PKPbc	Z	01:34:51.2	150.0	11.3
	e	pPKPbc	Z	01:37:03.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/05

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
GRA1 e PKP Z 03:06:04.8

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/05 03:25: 2.2 19.500S 175.500W 33.0N SZGRF  
Tonga Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML  
CLL e PKPbc Z 03:44:42.6 147.5 15.0  
MOX e PKPbc Z 03:44:44.5 148.3 12.9  
e PKPab Z 03:44:48.7  
UBBA e PKPbc Z 03:44:45.2 148.4 9.9  
e PKPab Z 03:44:48.8  
TANN e PKPbc Z 03:44:45.0 148.4 14.4  
e PKPab Z 03:44:49.7  
TNS e PKPbc Z 03:44:47.5 149.1 7.3  
e PKPab Z 03:44:51.2  
GRA1 e PKPbc Z 03:44:47.8 149.3 12.5  
e PKPab Z 03:44:52.4  
WET e PKPab Z 03:44:52.8 149.6 15.8

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GEC2	e	PKPab	Z	03:44:52.5	149.7	17.4
WLF	e	PKPbc	Z	03:44:48.9	149.8	3.1
	e	PKPab	Z	03:44:54.5		
FUR	e	PKPbc	Z	03:44:51.4	150.8	13.2
	e	PKPab	Z	03:44:57.7		
BFO	e	PKPbc	Z	03:44:51.5	151.0	7.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	03:57: 4.4	37.920N	23.140W	33.0N	5.9	6.0		SZGRF

Azores Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 04:02:16.0	24.0	251.8	1.1	1106	6.3		
BFO	e P	Z 04:02:26.3	25.0	257.1	1.3	428	6.0		
TNS	e P	Z 04:02:31.3	25.5	253.4	1.0	256	5.8		
STU	e P	Z 04:02:31.8	25.6	257.1	0.9	262	5.8		
IBBN	e P	Z 04:02:33.4	25.8	248.5	1.5	809	6.1		
UBBA	e P	Z 04:02:41.4	26.7	254.0	1.6	230	5.7		
FUR	e P	Z 04:02:43.7	26.9	260.5	1.6	354	5.9		
GRA1	e P	Z 04:02:45.7	27.1	257.5	2.2	1481	6.3		
	e S	R 04:07:29.5							
	e L	Z 04:12:12.3			21.9	50928		6.0	
CLZ	e P	Z 04:02:45.8	27.2	252.5	2.0	370	5.8		
NRDL	e P	Z 04:02:46.7	27.2	251.0	1.4	608	6.1		
MOX	e P	Z 04:02:49.3	27.6	256.1	1.8	349	5.9		
	e PPP	Z 04:03:43.0							
MANZ	e P	Z 04:02:51.3	27.8	257.8	1.3	172	5.7		
ROTZ	e P	Z 04:02:51.1	27.8	258.3	1.2	194	5.8		
	e PPP	Z 04:03:45.8							
TANN	e P	Z 04:02:54.0	28.1	257.4	1.9	593	6.1		
WET	e P	Z 04:02:53.8	28.1	260.1	1.8	206	5.7		
	e PPP	Z 04:03:49.7							
GEC2	e P	Z 04:02:58.2	28.6	261.5	1.6	340	5.9		
	e PPP	Z 04:03:57.1							
CLL	e P	Z 04:02:58.5	28.6	256.3	1.6	254	5.8		
BRG	e P	Z 04:03:02.5	29.1	258.1	1.6	223	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	06:10: 6.7	20.717S	169.362E	34.7				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z	06:29:36.7	144.2	41.7			
TANN	e	PKPbc	Z	06:29:39.6	145.2	40.0			
	e	pPKPbc	Z	06:29:50.0					

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MOX	e	PKPbc	Z	06:29:39.8	145.3	38.5
	e	pPKPbc	Z	06:29:50.6		
MANZ	e	PKPbc	Z	06:29:41.3	145.6	39.9
	e	pPKPbc	Z	06:29:51.5		
ROTZ	e	PKPbc	Z	06:29:41.5	145.8	40.2
	e	pPKPbc	Z	06:29:51.6		
GEC2	e	PKPbc	Z	06:29:41.5	145.8	43.3
	e	pPKPbc	Z	06:29:51.5		
UBBA	e	pPKPbc	Z	06:29:52.0	145.8	35.9
WET	e	PKPbc	Z	06:29:41.8	146.0	41.8
	e	pPKPbc	Z	06:29:52.7		
GRA1	e	PKPbc	Z	06:29:43.2	146.2	38.8
TNS	e	PKPbc	Z	06:29:44.9	146.9	34.0
WLF	e	PKPbc	Z	06:29:48.8	148.1	30.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	07:13:22.2	20.949S	168.288E	33.0G				SZGRF

Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z 07:32:51.4	144.0	43.4				
TANN	e	PKPbc	Z 07:32:54.6	144.9	41.7				
MOX	e	PKPbc	Z 07:32:55.6	145.1	40.3				
GEC2	e	PKPbc	Z 07:32:56.8	145.5	45.1				
ROTZ	e	PKPbc	Z 07:32:56.8	145.5	42.0				
WET	e	PKPbc	Z 07:32:58.0	145.7	43.6				
GRA1	e	PKPbc	Z 07:32:58.0	146.0	40.6				
WLF	e	PKPbc	Z 07:33:05.8	148.0	32.7				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKP	Z 10:25:40.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	11:05:54.0	37.155N	24.829W	33.0N	4.4			SZGRF

Azores Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 11:11:48.2	28.7	257.9	1.2	7	4.4	



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	13:22:57.0	57.630N	116.040E	15.3	5.2			SZGRF

East of Lake Baykal, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:32:23.6	54.2	40.2	1.0	31	5.3		
CLL	e P	Z	13:32:23.7	54.3	40.0	1.1	36	5.3		
CLZ	e P	Z	13:32:28.7	54.9	39.0	1.3	46	5.3		
TANN	e P	Z	13:32:30.9	55.2	39.3					
MOX	e P	Z	13:32:32.1	55.4	39.1	0.9	38	5.4		
MANZ	e P	Z	13:32:34.4	55.7	39.0	1.0	11	4.8		
ROTZ	e P	Z	13:32:35.3	55.8	38.9	0.9	23	5.2		
UBBA	e P	Z	13:32:35.3	55.9	38.4	1.7	49	5.3		
GEC2	e P	Z	13:32:35.4	55.9	39.2	0.9	12	4.9		
WET	e P	Z	13:32:36.8	56.0	39.0	0.9	25	5.3		
GRA1	e P	Z	13:32:38.9	56.3	38.5	0.8	23	5.3		
	e pP	Z	13:32:43.1							
STU	e P	Z	13:32:49.3	57.8	37.3	0.9	20	5.1		
WLF	e P	Z	13:32:52.9	58.3	36.3	1.0	17	5.0		
BFO	e P	Z	13:32:53.5	58.5	36.7	1.2	20	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	15:40:36.7	35.820N	24.360W	33.0N	4.9			SZGRF

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	15:46:08.3	26.1	249.5	1.0	80	5.3		
BFO	e P	Z	15:46:17.5	27.0	254.6	1.2	48	5.1		
STU	e P	Z	15:46:26.8	27.7	254.7	0.9	24	5.0		
UBBA	e P	Z	15:46:33.5	28.8	252.0	2.2	66	5.1		
GRA1	e P	Z	15:46:36.8	29.2	255.2	1.0	32	5.1		
CLZ	e P	Z	15:46:38.2	29.3	250.6	2.0	55	5.0		
MOX	e P	Z	15:46:40.9	29.7	254.0	1.5	26	4.8		
MANZ	e P	Z	15:46:42.9	29.8	255.7	1.5	17	4.7		
ROTZ	e P	Z	15:46:42.4	29.8	256.1	1.3	18	4.8		
WET	e P	Z	15:46:44.8	30.1	257.9	2.4	48	4.9		
TANN	e P	Z	15:46:45.6	30.2	255.3	1.5	29	4.9		
GEC2	e P	Z	15:46:49.2	30.6	259.2	1.8	22	4.8		
CLL	e P	Z	15:46:49.7	30.7	254.4	1.3	11	4.6		
BRG	e P	Z	15:46:54.0	31.2	256.1	1.3	16	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	18:45:38.7	21.890S	168.500E	34.8				SZGRF

Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e PKPbc	Z	19:05:13.8	145.9	42.2					
WERD	e PKPbc	Z	19:05:13.9	145.9	41.9					
	e pPKPbc	Z	19:05:24.4							
GUNZ	e PKPbc	Z	19:05:14.4	146.0	42.0					
	e pPKPbc	Z	19:05:24.7							
WERN	e PKPbc	Z	19:05:14.4	146.0	42.2					
MOX	e PKPbc	Z	19:05:14.1	146.0	40.7					
	e pPKPbc	Z	19:05:24.9							
MANZ	e PKPbc	Z	19:05:15.4	146.3	42.1					
	e pPKPbc	Z	19:05:25.8							
GEC2	e PKPbc	Z	19:05:15.6	146.4	45.6					
	e pPKPbc	Z	19:05:26.1							
ROTZ	e PKPbc	Z	19:05:15.8	146.4	42.5					
	e pPKPbc	Z	19:05:26.1							
GRA1	e PKPbc	Z	19:05:17.2	146.9	41.1					
WLF	e PKPbc	Z	19:05:23.0	148.9	33.0					
BFO	e PKPbc	Z	19:05:22.9	149.2	37.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	19:22:34.3	13.200S	167.102E	224.0G				NEIC

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	19:41:29.7	136.5	39.7					
CLL	e PKPdf	Z	19:41:29.7	136.5	38.2					
FBE	e PKPdf	Z	19:41:31.5	136.7	38.9					
CLZ	e PKPdf	Z	19:41:31.1	137.1	34.4					
TANN	e PKPdf	Z	19:41:31.8	137.4	38.1					
WERD	e PKPdf	Z	19:41:33.5	137.5	37.8					
GUNZ	e PKPdf	Z	19:41:31.1	137.5	37.9					
WERN	e PKPdf	Z	19:41:34.1	137.6	38.0					
MOX	e PKPdf	Z	19:41:31.2	137.6	36.8					
MANZ	e PKPdf	Z	19:41:31.7	137.9	37.9					
GEC2	e PKPdf	Z	19:41:32.1	138.1	40.8					
WET	e PKPdf	Z	19:41:33.0	138.3	39.5					
GRA1	e PKPdf	Z	19:41:34.0	138.5	36.9					
WLF	e PKPdf	Z	19:41:37.5	140.3	29.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	20:03:14.3	15.834S	172.609W	33.0N				SZGRF

Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLZ	e	PKPbc	Z	20:22:43.7	143.9	4.9
BRG	e	PKPbc	Z	20:22:45.1	144.6	10.9
UBBA	e	PKPbc	Z	20:22:46.4	145.0	4.4
MOX	e	PKPbc	Z	20:22:46.6	145.0	7.1
TANN	e	PKPbc	Z	20:22:47.3	145.2	8.6
MANZ	e	PKPbc	Z	20:22:48.7	145.6	8.1
ROTZ	e	PKPbc	Z	20:22:49.6	145.8	8.3
GRA1	e	PKPbc	Z	20:22:50.1	146.0	6.6
WLF	e	PKPbc	Z	20:22:51.0	146.2	357.9
GEC2	e	PKPbc	Z	20:22:51.6	146.6	11.1
BFO	e	PKPbc	Z	20:22:53.8	147.5	1.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	20:49:3.7	19.882S	55.107E	33.0N	5.2			SZGRF
Mauritius - Reunion region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:00:58.0	78.0	140.5	2.9	88	5.4		
FUR	e P	Z 21:01:02.5	78.5	138.4	3.0	267	5.9		
ROTZ	e P	Z 21:01:06.1	79.3	139.4	2.1	37	5.0		
GRA1	e P	Z 21:01:08.4	79.7	138.5	2.1	64	5.3		
BFO	e P	Z 21:01:09.6	80.0	135.9	2.1	46	5.0		
MOX	e P	Z 21:01:11.1	80.2	138.9	2.2	32	4.9		
UBBA	e P	Z 21:01:15.6	81.0	137.6	2.2	57	5.2		
CLZ	e P	Z 21:01:18.8	81.6	138.0	1.8	35	5.1		
WLF	e P	Z 21:01:19.7	81.9	134.2	1.4	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/05	22:45:17.4	37.184N	24.747W	12.2	4.6			SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:51:13.6	28.6	257.9	1.2	14	4.6		
	e pP	Z 22:51:16.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:52:49.0							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:14:07.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06	05:54:24.3	55.707S	122.193W	33.0N				SZGRF
Southern East Pacific Rise								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPbc	Z 06:14:08.7	148.9	238.7					
BFO	e PKPbc	Z 06:14:09.8	149.4	237.2					
STU	e PKPbc	Z 06:14:11.5	150.1	238.0					
FUR	e PKPbc	Z 06:14:13.8	150.9	237.3					
IBBN	e PKPbc	Z 06:14:14.0	151.0	243.1					
	e PP	Z 06:17:53.0							
UBBA	e PKPpdf	Z 06:14:09.8	151.6	241.3					
	e PKPbc	Z 06:14:15.2							
	e PP	Z 06:17:56.6							
GRA1	e PKPpdf	Z 06:14:10.1	151.7	239.7					
	e PKPbc	Z 06:14:15.5							
	e PP	Z 06:17:57.0							
CLZ	e PKPpdf	Z 06:14:10.5	152.3	243.1					
	e PKPbc	Z 06:14:17.0							
	e PKPab	Z 06:14:28.0							
ROTZ	e PKPbc	Z 06:14:16.8	152.3	240.0					
MANZ	e PKPbc	Z 06:14:17.1	152.3	240.3					
WET	e PKPbc	Z 06:14:16.7	152.4	239.0					
MOX	e PKPbc	Z 06:14:17.0	152.4	241.3					
	e PKPab	Z 06:14:28.5							
GEC2	e PKPpdf	Z 06:14:09.1	152.7	238.6					
	e PKPbc	Z 06:14:17.5							
	e PP	Z 06:18:02.9							
TANN	e PKPab	Z 06:14:30.4	152.8	241.1					
	e PP	Z 06:18:04.0							
CLL	e PKPbc	Z 06:14:19.6	153.5	242.8					
	e PKPab	Z 06:14:33.5							
BRG	e PKPpdf	Z 06:14:10.9	153.8	242.2					
	e PKPbc	Z 06:14:20.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06	06:20:15.4	21.680S	169.150E	35.6		5.4		SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	06:39:47.6	145.0	42.8					
	e pPKPbc	Z	06:39:58.3							
CLL	e PKPbc	Z	06:39:47.8	145.0	41.0					
CLZ	e PKPbc	Z	06:39:50.4	145.7	36.6					
	e pPKPbc	Z	06:40:01.0							
TANN	e PKPbc	Z	06:39:50.6	145.9	41.0					
MOX	e PKPbc	Z	06:39:51.3	146.1	39.6					
	e pPKPbc	Z	06:40:02.0							
IBBN	e PKPbc	Z	06:39:51.6	146.2	32.2					
MANZ	e PKPbc	Z	06:39:52.8	146.4	40.9					
ROTZ	e PKPbc	Z	06:39:53.1	146.5	41.3					
GEC2	e PKPbc	Z	06:39:53.1	146.6	44.5					
	e pPKPbc	Z	06:40:03.7							
UBBA	e PKPbc	Z	06:39:53.2	146.6	36.9					
	e pPKPbc	Z	06:40:03.9							
WET	e PKPbc	Z	06:39:53.4	146.7	42.9					
GRA1	e PKPbc	Z	06:39:54.1	147.0	39.9					
	e L	Z	07:32:44.0			21.1	734		5.4	
FUR	e PKPbc	Z	06:39:58.0	148.1	41.5					
STU	e PKPbc	Z	06:39:59.2	148.6	37.6					
	e pPKPbc	Z	06:40:09.9							
WLF	e PKPbc	Z	06:40:00.5	149.0	31.8					
	e pPKPbc	Z	06:40:11.3							
BFO	e pPKPbc	Z	06:40:10.8	149.3	36.7					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/06 09:12:20.0 8.536S 157.099E 10.0G NEIC  
 Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	09:31:26.0	127.9	48.7					
CLL	e PKPdf	Z	09:31:25.8	128.1	47.4					
CLZ	e PKPdf	Z	09:31:28.0	128.9	44.2					
TANN	e PKPdf	Z	09:31:28.0	128.9	47.4					
MOX	e PKPdf	Z	09:31:28.5	129.2	46.3					
GEC2	e PKPdf	Z	09:31:28.6	129.4	49.7					
MANZ	e PKPdf	Z	09:31:28.8	129.4	47.2					
ROTZ	e PKPdf	Z	09:31:28.5	129.5	47.5					
WET	e PKPdf	Z	09:31:29.4	129.6	48.6					
GRA1	e PKPdf	Z	09:31:30.1	130.0	46.4					
	e PP	Z	09:33:38.6							
FUR	e PKPdf	Z	09:31:32.2	131.0	47.4					

Date Origin Time Lat Long Depth mb Ms ML Source

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2007/04/06 09:20:53.1 20.750S 169.600E 41.5 5.0 SZGRF  
Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 09:40:22.3	144.3	41.4					
CLZ	e PKPbc	Z 09:40:24.5	145.0	35.3					
TANN	e PKPbc	Z 09:40:25.5	145.3	39.7					
MOX	e PKPbc	Z 09:40:26.0	145.5	38.2					
MANZ	e PKPbc	Z 09:40:26.8	145.8	39.5					
ROTZ	e PKPbc	Z 09:40:27.3	145.9	39.9					
GEC2	e PKPbc	Z 09:40:27.6	145.9	43.0					
WET	e PKPbc	Z 09:40:28.3	146.1	41.5					
GRA1	e PKPbc	Z 09:40:29.1	146.4	38.5					
	e pPKPbc	Z 09:40:41.5							
	e L	Z 10:32:00.6			20.3	269		5.0	
BFO	e PKPbc	Z 09:40:35.0	148.6	35.2					

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/06 10:31:59.2 38.234N 23.616W 33.0N 4.1 SZGRF  
Azores Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:37:40.8	27.3	258.5	1.1	5	4.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/06

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 12:04:12.5							
	e Sn	E 12:05:10.9							
WET	e Pn	Z 12:04:28.5							
	e Sn	N 12:05:24.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/06 12:42:13.0 37.510N 137.930E 33.0N 4.8 SZGRF  
Near west coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:54:15.3	78.9	42.1	0.9	5	4.5		
CLL	e P	Z 12:54:15.3	79.0	41.5	1.1	10	4.8		
CLZ	e P	Z 12:54:19.6	79.6	39.7	1.2	12	4.7		
MOX	e P	Z 12:54:20.4	80.0	40.5	1.6	14	4.6		
ROTZ	e P	Z 12:54:24.0	80.5	40.8	1.9	31	5.0		

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GEC2	e P	Z	12:54:23.5	80.5	41.7	1.3	5	4.4
WET	e P	Z	12:54:25.0	80.6	41.2	2.1	26	4.9
GRA1	e P	Z	12:54:26.5	80.9	40.1	1.0	11	4.8
BFO	e P	Z	12:54:37.6	83.2	38.0	1.1	12	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06	14:08:58.1	17.515S	69.551W	33.0N	5.4			SZGRF
Peru-Bolivia border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 14:22:14.7	94.4	247.9	1.0	15	5.3		
STU	e P	Z 14:22:22.4	96.0	250.1	1.0	18	5.6		
IBBN	e P	Z 14:22:24.0	96.3	249.4	0.7	11	5.5		
FUR	e P	Z 14:22:27.0	97.1	251.6	0.9	16	5.7		
UBBA	e P	Z 14:22:27.4	97.1	250.9	1.0	4	5.0		
GRA1	e P	Z 14:22:29.0	97.5	251.7	0.9	8	5.4		
CLZ	e P	Z 14:22:29.7	97.7	251.3	1.2	12	5.5		
MOX	e P	Z 14:22:30.9	98.0	252.1	1.6	11	5.3		
ROTZ	e P	Z 14:22:32.0	98.1	252.4	1.2	12	5.5		
MANZ	e P	Z 14:22:32.4	98.1	252.4	1.2	12	5.5		
WET	e P	Z 14:22:33.0	98.4	252.8	1.3	8	5.3		
TANN	e P	Z 14:22:33.9	98.5	252.7	1.4	15	5.5		
GEC2	e P	Z 14:22:34.8	98.8	253.4	1.5	10	5.3		
FBE	e P	Z 14:22:36.7	99.2	253.5	1.1	9	5.4		
BRG	e P	Z 14:22:38.3	99.5	253.9	1.3	11	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 15:04:44.4							
GEC2	e PKP	Z 15:04:49.3							
GUNZ	e PKP	Z 15:04:47.9							
MANZ	e PKP	Z 15:04:49.0							
ROTZ	e PKP	Z 15:04:49.9							
WERD	e PKP	Z 15:04:47.5							
WERN	e PKP	Z 15:04:47.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06	15:21:42.9	37.190N	24.430W	33.0N	4.9	4.2		SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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WLF	e P	Z	15:27:06.3	25.2	252.0	0.9	47	5.2	
BFO	e P	Z	15:27:15.9	26.2	257.1	1.7	86	5.1	
UBBA	e P	Z	15:27:31.8	27.9	254.2	2.1	46	4.9	
GRA1	e P	Z	15:27:35.7	28.4	257.5	2.0	110	5.3	
	e L	Z	15:36:46.5			22.0	730		4.2
CLZ	e P	Z	15:27:34.9	28.4	252.8	2.5	70	5.0	
MOX	e P	Z	15:27:39.9	28.9	256.2	2.1	64	5.1	
MANZ	e P	Z	15:27:39.9	29.0	257.9	1.3	8	4.4	
ROTZ	e P	Z	15:27:40.9	29.0	258.4	1.1	10	4.6	
TANN	e P	Z	15:27:43.7	29.3	257.5	1.4	20	4.8	
WET	e P	Z	15:27:43.6	29.3	260.1				
GEC2	e P	Z	15:27:48.2	29.8	261.4	1.4	17	4.7	
BRG	e P	Z	15:27:52.6	30.3	258.2	1.4	16	4.7	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/06 18:49:11.9 67.864N 19.578W 33.0N 4.5  
 Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:54:21.2	23.7	331.3	1.4	20	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/06 18:48:17.6 7.086S 155.774E 46.2 5.4  
 Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	19:07:15.0	126.0	49.3					
	e PP	Z	19:09:10.1							
CLL	e PKPdf	Z	19:07:15.2	126.2	48.1					
	e PP	Z	19:09:10.3							
CLZ	e PKPdf	Z	19:07:17.1	127.0	44.9					
TANN	e PKPdf	Z	19:07:16.9	127.0	48.0					
	e pPKPdf	Z	19:07:31.2							
MOX	e PKPdf	Z	19:07:17.3	127.3	46.9					
GEC2	e PKPdf	Z	19:07:17.7	127.4	50.2					
MANZ	e PKPdf	Z	19:07:17.7	127.5	47.8					
	e pPKPdf	Z	19:07:31.2							
	e PP	Z	19:09:19.6							
ROTZ	e PKPdf	Z	19:07:17.9	127.6	48.0					
WET	e PKPdf	Z	19:07:18.5	127.7	49.1					
IBBN	e PKPdf	Z	19:07:18.4	127.8	41.7					
UBBA	e PKPdf	Z	19:07:18.4	127.9	45.0					
GRA3	e SKKPdf	Z	19:20:26.1	128.0	47.1					
GRA1	e PKPdf	Z	19:07:19.0	128.1	47.0					
	e PP	Z	19:09:22.5							



	e L	Z	20:06:19.1			22.0	885	5.4	
FUR	e PKPdf	Z	19:07:21.1	129.1	48.0				
	e PP	Z	19:09:28.6						
STU	e PKPdf	Z	19:07:22.4	129.7	45.3				
	e pPKPdf	Z	19:07:35.7						
WLF	e PKPdf	Z	19:07:23.8	130.4	41.2				
	e PP	Z	19:09:37.7						
BFO	e PKPdf	Z	19:07:22.6	130.4	44.5				
	e pPKPdf	Z	19:07:37.5						
	e PP	Z	19:09:37.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 19:59:59.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 21:59:32.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	01:21:43.8	30.936N	141.634E	33.0N	5.4	4.7		SZGRF
Southeast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:34:21.4	86.1	42.9					
CLL	e P	Z 01:34:21.8	86.2	42.2	1.6	51	5.4		
CLZ	e P	Z 01:34:25.2	86.9	40.2	1.5	36	5.3		
MOX	e P	Z 01:34:27.2	87.3	41.1	2.1	46	5.4		
IBBN	e P	Z 01:34:28.3	87.5	38.2	1.8	71	5.7		
ROTZ	e P	Z 01:34:29.4	87.7	41.5	1.8	26	5.3		
GEC2	e P	Z 01:34:29.4	87.7	42.6	1.6	12	5.0		
UBBA	e P	Z 01:34:30.7	87.8	39.9	1.8	26	5.3		
GRA1	e P	Z 01:34:31.6	88.1	40.8	1.7	41	5.5		
	e L	Z 02:23:11.9			19.7	294		4.7	
FUR	e P	Z 01:34:37.1	89.3	40.8	1.7	38	5.3		
STU	e P	Z 01:34:38.4	89.7	39.3	1.8	41	5.3		
WLF	e P	Z 01:34:41.5	90.2	37.0	2.2	71	5.6		
BFO	e P	Z 01:34:41.7	90.4	38.6	1.4	23	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	02:59:2.9	20.125S	170.117E	34.9				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 03:18:32.0	144.0	40.2					
CLL	e PKPbc	Z 03:18:32.0	144.0	38.4					
CLZ	e PKPbc	Z 03:18:34.5	144.6	34.1					
TANN	e PKPbc	Z 03:18:35.5	144.9	38.4					
IBBN	e PKPbc	Z 03:18:36.2	145.0	29.8					
MOX	e PKPbc	Z 03:18:35.8	145.1	37.0					
ROTZ	e PKPbc	Z 03:18:37.9	145.5	38.6					
	e pPKPbc	Z 03:18:48.1							
GEC2	e PKPbc	Z 03:18:37.6	145.6	41.7					
	e pPKPbc	Z 03:18:48.0							
WET	e PKPbc	Z 03:18:38.2	145.8	40.2					
GRA1	e PKPbc	Z 03:18:38.8	146.0	37.2					
	e pPKPbc	Z 03:18:49.4							
FUR	e PKPbc	Z 03:18:42.7	147.2	38.7					
STU	e PKPbc	Z 03:18:43.3	147.5	34.9					
WLF	e PKPbc	Z 03:18:44.8	147.8	29.1					
BFO	e PKPbc	Z 03:18:45.1	148.2	33.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	04:41:24.8	28.100S	176.800W	39.0	5.2			NEIC

Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 05:01:23.4	155.7	21.4					
CLZ	e PKPab	Z 05:01:40.8	155.7	15.5					
GRA1	e PKPab	Z 05:01:47.3	157.6	18.9					
WET	e PKPab	Z 05:01:48.7	157.7	23.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	07:09:40.1	38.350N	23.130W	33.0N	6.1	5.7		SZGRF

Azores Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 07:14:51.2	23.7	252.7					
BFO	e P	Z 07:15:00.5	24.7	258.0	2.2	1724	6.4		
STU	e P	Z 07:15:06.3	25.4	258.0	1.2	347	6.0		
IBBN	e P	Z 07:15:07.5	25.5	249.2	2.5	2422	6.4		
FUR	e P	Z 07:15:18.4	26.6	261.2	2.3	1318	6.3		

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GRA1	e P	Z	07:15:20.0	26.9	258.2	2.1	1800	6.4			
	e L	Z	07:24:44.2			21.6	25732		5.7		
CLZ	e P	Z	07:15:20.1	26.9	253.2	2.2	575	5.9			
MOX	e P	Z	07:15:24.6	27.3	256.8	2.3	882	6.1			
ROTZ	e P	Z	07:15:25.8	27.5	259.1	2.8	1171	6.1			
TANN	e P	Z	07:15:29.0	27.8	258.1						
WET	e P	Z	07:15:29.0	27.8	260.9	2.3	443	5.9			
GEC2	e P	Z	07:15:32.9	28.3	262.2	2.1	720	6.1			
CLL	e P	Z	07:15:33.0	28.3	257.0	2.1	462	6.0			
BRG	e P	Z	07:15:37.4	28.8	258.8	2.5	972	6.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 07:21:34.0							
CLL	e PKPbc	Z 07:21:33.9							
GEC2	e PKPbc	Z 07:21:39.3							
GRA1	e PKPbc	Z 07:21:41.1							
IBBN	e PKPbc	Z 07:21:37.6							
MOX	e PKPbc	Z 07:21:37.4							
ROTZ	e PKPbc	Z 07:21:39.3							
TANN	e PKPbc	Z 07:21:37.3							
WET	e PKPbc	Z 07:21:39.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 07:26:37.0							
CLL	e PKPbc	Z 07:26:37.1							
GEC2	e PKPbc	Z 07:26:42.6							
GRA1	e PKPbc	Z 07:26:44.0							
	e	07:26:55.7							
IBBN	e PKPbc	Z 07:26:41.0							
MOX	e PKPbc	Z 07:26:40.9							
ROTZ	e PKPbc	Z 07:26:43.2							
TANN	e PKPbc	Z 07:26:40.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	08:01:50.5	38.462N	22.248W	33.0N	4.8			SZGRF

Azores Islands region

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	08:06:53.4	23.1	251.8					
BFO	e P	Z	08:07:03.7	24.1	257.3					
IBBN	e P	Z	08:07:14.3	24.9	248.2					
GRA1	e P	Z	08:07:23.1	26.3	257.5	1.5	40	4.8		
CLZ	e P	Z	08:07:26.5	26.3	252.4					
MOX	e P	Z	08:07:30.0	26.7	256.1					
ROTZ	e P	Z	08:07:29.7	26.9	258.4					
TANN	e P	Z	08:07:32.2	27.2	257.4					
BRG	e P	Z	08:07:40.3	28.2	258.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	08:09:10.8	20.172S	170.009E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	08:28:39.8	144.0	40.4					
CLL	e PKPbc	Z	08:28:40.1	144.0	38.6					
CLZ	e PKPbc	Z	08:28:42.5	144.6	34.3					
TANN	e PKPbc	Z	08:28:43.2	144.9	38.6					
IBBN	e PKPbc	Z	08:28:44.0	145.0	30.0					
MOX	e PKPbc	Z	08:28:43.8	145.1	37.2					
UBBA	e PKPbc	Z	08:28:45.0	145.5	34.6					
ROTZ	e PKPbc	Z	08:28:45.5	145.5	38.8					
GEC2	e PKPbc	Z	08:28:45.3	145.6	41.9					
WET	e PKPbc	Z	08:28:46.0	145.8	40.4					
GRA1	e PKPbc	Z	08:28:46.7	146.0	37.4					
	e		08:28:57.5							
	e		08:29:30.5							
FUR	e PKPbc	Z	08:28:50.7	147.2	38.9					
WLF	e PKPbc	Z	08:28:52.6	147.8	29.4					
BFO	e PKPbc	Z	08:28:52.5	148.2	34.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	08:20:21.7	20.172S	170.009E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	08:39:50.6	144.0	40.4					
CLL	e PKPbc	Z	08:39:50.8	144.0	38.6					
CLZ	e PKPbc	Z	08:39:53.1	144.6	34.3					
TANN	e PKPbc	Z	08:39:53.9	144.9	38.6					
IBBN	e PKPbc	Z	08:39:54.3	145.0	30.0					
MOX	e PKPbc	Z	08:39:54.2	145.1	37.2					
ROTZ	e PKPbc	Z	08:39:56.1	145.5	38.8					

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GEC2	e	PKPbc	Z	08:39:55.8	145.6	41.9
WET	e	PKPbc	Z	08:39:56.5	145.8	40.4
GRA1	e	PKPbc	Z	08:39:57.6	146.0	37.4
	e			08:40:08.3		
STU	e	PKPbc	Z	08:40:02.2	147.5	35.1
WLF	e	PKPbc	Z	08:40:03.3	147.8	29.4
BFO	e	PKPbc	Z	08:40:03.2	148.2	34.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKP	Z 08:46:52.5							
	e	08:47:03.6							
GRA1	e PKP	Z 08:46:53.4							
IBBN	e PKP	Z 08:46:50.7							
MOX	e PKP	Z 08:46:50.9							
ROTZ	e PKP	Z 08:46:52.6							
TANN	e PKP	Z 08:46:50.3							
	e	08:47:01.6							
WET	e PKP	Z 08:46:53.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	08:30:14.7	19.872S	170.714E	40.4				SZGRF
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 08:49:43.5	144.0	39.1					
CLL	e PKPbc	Z 08:49:43.5	144.0	37.4					
CLZ	e PKPbc	Z 08:49:46.1	144.5	33.0					
TANN	e PKPbc	Z 08:49:47.0	144.9	37.3					
IBBN	e PKPbc	Z 08:49:47.5	145.0	28.7					
MOX	e PKPbc	Z 08:49:47.4	145.1	35.9					
UBBA	e PKPbc	Z 08:49:49.2	145.5	33.3					
ROTZ	e PKPbc	Z 08:49:49.2	145.6	37.5					
GEC2	e PKPbc	Z 08:49:49.0	145.7	40.6					
WET	e PKPbc	Z 08:49:49.7	145.8	39.1					
GRA1	e PKPbc	Z 08:49:50.6	146.0	36.1					
	e pPKPbc	Z 08:50:02.7							
FUR	e PKPbc	Z 08:49:55.4	147.2	37.6					
STU	e PKPbc	Z 08:49:54.7	147.5	33.7					
WLF	e PKPbc	Z 08:49:56.3	147.8	28.0					
BFO	e PKPbc	Z 08:49:56.2	148.2	32.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	08:46:42.7	20.616S	170.228E	39.8				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	09:06:13.5	144.5	40.4					
CLL	e PKPbc	Z	09:06:13.4	144.5	38.6					
CLZ	e PKPbc	Z	09:06:15.7	145.1	34.3					
TANN	e PKPbc	Z	09:06:16.8	145.4	38.6					
	e pPKPbc	Z	09:06:28.5							
IBBN	e PKPbc	Z	09:06:17.2	145.5	29.9					
MOX	e PKPbc	Z	09:06:17.2	145.6	37.1					
UBBA	e PKPbc	Z	09:06:18.7	146.0	34.5					
ROTZ	e PKPbc	Z	09:06:19.1	146.0	38.8					
	e pPKPbc	Z	09:06:30.7							
GEC2	e PKPbc	Z	09:06:18.4	146.1	42.0					
	e pPKPbc	Z	09:06:30.5							
WET	e PKPbc	Z	09:06:19.3	146.2	40.4					
GRA1	e PKPbc	Z	09:06:20.0	146.5	37.4					
	e pPKPbc	Z	09:06:32.3							
STU	e PKPbc	Z	09:06:24.5	148.0	35.0					
BFO	e PKPbc	Z	09:06:25.9	148.7	34.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	09:51:54.9	3.273N	95.300E	33.0N	5.9	5.8		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:04:12.2	82.0	94.2	1.3	114	5.8		
BRG	e P	Z	10:04:12.8	82.0	94.7	1.9	228	6.0		
WET	e P	Z	10:04:14.7	82.6	93.6	1.9	181	6.0		
CLL	e P	Z	10:04:14.4	82.6	94.0	2.1	140	5.8		
TANN	e P	Z	10:04:16.9	82.9	93.4					
ROTZ	e P	Z	10:04:17.2	83.0	93.2	2.0	197	6.0		
MOX	e P	Z	10:04:19.4	83.5	92.8	1.6	85	5.7		
FUR	e P	Z	10:04:20.7	83.6	92.3	2.3	277	6.1		
GRA1	e P	Z	10:04:20.6	83.7	92.4	1.7	197	6.1		
	e S	N	10:14:41.2							
	e L	Z	10:48:58.4			19.6	4473		5.8	
CLZ	e P	Z	10:04:24.1	84.3	92.0	1.8	127	5.8		
UBBA	e P	Z	10:04:26.6	84.5	91.6					
STU	e P	Z	10:04:28.2	85.0	90.8					
BFO	e P	Z	10:04:29.7	85.5	90.1	1.1	32	5.3		
IBBN	e P	Z	10:04:31.9	85.9	89.9	1.7	155	5.9		
WLF	e P	Z	10:04:37.2	87.0	88.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	10:19:19.4	18.874S	177.561W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	10:38:56.3	146.3	9.1					
CLZ	e PKPbc	Z	10:38:56.9	146.4	13.7					
CLL	e PKPbc	Z	10:38:56.7	146.5	18.3					
BRG	e PKPbc	Z	10:38:57.5	146.7	20.1					
TANN	e PKPbc	Z	10:38:59.7	147.5	17.8					
ROTZ	e PKPbc	Z	10:39:01.6	148.1	17.7					
GRA1	e PKPbc	Z	10:39:02.1	148.4	16.0					
GEC2	e PKPbc	Z	10:39:02.8	148.7	20.8					
WLF	e PKPbc	Z	10:39:04.6	149.1	6.8					
BFO	e PKPbc	Z	10:39:06.6	150.2	11.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKP	Z	12:30:49.6							
GRA1	e PKP	Z	12:30:51.4							
IBBN	e PKP	Z	12:30:48.5							
MOX	e PKP	Z	12:30:48.0							
ROTZ	e PKP	Z	12:30:50.3							
TANN	e PKP	Z	12:30:47.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	13:08:50.2	20.195S	169.955E	38.0				SZGRF
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	13:28:19.1	144.0	40.5					
CLL	e PKPbc	Z	13:28:19.3	144.0	38.7					
CLZ	e PKPbc	Z	13:28:21.8	144.6	34.4					
TANN	e PKPbc	Z	13:28:22.6	144.9	38.7					
IBBN	e PKPbc	Z	13:28:23.2	145.0	30.1					
	e pPKPbc	Z	13:28:34.7							
MOX	e PKPbc	Z	13:28:23.0	145.1	37.3					
ROTZ	e PKPbc	Z	13:28:24.8	145.5	38.9					
GEC2	e PKPbc	Z	13:28:24.7	145.6	42.0					
	e pPKPbc	Z	13:28:36.0							
WET	e PKPbc	Z	13:28:25.2	145.7	40.5					

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GRA1	e	PKPbc	Z	13:28:26.0	146.0	37.5
WLF	e	PKPbc	Z	13:28:32.0	147.8	29.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	PKP	Z	14:16:35.9					
IBBN	e	PKP	Z	14:16:34.3					
MOX	e	PKP	Z	14:16:34.3					
TANN	e	PKP	Z	14:16:33.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	18:57:26.4	38.311N	27.540W	33.0N	4.6			SZGRF
Azores Islands, Portugal								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e	P	Z	19:03:01.3	26.5	257.5			
BFO	e	P	Z	19:03:10.1	27.6	262.2			
GRA1	e	P	Z	19:03:29.8	29.7	262.4	1.3	12	4.6
ROTZ	e	P	Z	19:03:36.1	30.4	263.2			
TANN	e	P	Z	19:03:38.1	30.6	262.3			
CLL	e	P	Z	19:03:40.1	31.1	261.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/07	18:57:45.3	37.482N	23.430W	33.0N	4.6			SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z	19:03:29.8	27.6	257.0	1.3	12	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	00:11:1.2	37.335N	23.539W	33.0N	4.9			SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z	00:16:47.1	27.7	256.9	2.2	45	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/08 01:51:58.2 45.591N 153.709E 33.0N 4.1 SZGRF  
East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:04:00.9	79.3	25.7	0.7	2	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	03:22:10.3	50.243N	154.653E	33.0N	5.5			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 03:33:38.4	73.4	24.5	1.1	42	5.4		
BRG	e P	Z 03:33:39.4	73.5	25.0	1.1	19	5.0		
CLZ	e P	Z 03:33:40.2	73.5	22.9	1.0	44	5.5		
IBBN	e P	Z 03:33:40.8	73.7	21.3	0.8	34	5.4		
TANN	e P	Z 03:33:44.5	74.3	24.0					
MOX	e P	Z 03:33:44.4	74.3	23.5	1.0	30	5.3		
UBBA	e P	Z 03:33:45.7	74.6	22.6					
ROTZ	e P	Z 03:33:48.4	75.0	23.8	1.1	36	5.3		
GRA1	e P	Z 03:33:50.5	75.3	23.2	0.9	76	5.8		
WET	e P	Z 03:33:50.8	75.4	24.1	0.9	46	5.6		
GEC2	e P	Z 03:33:50.7	75.4	24.6	0.8	21	5.3		
WLF	e P	Z 03:33:57.3	76.5	20.1					
STU	e P	Z 03:33:57.6	76.6	21.9	0.9	46	5.6		
FUR	e P	Z 03:33:58.1	76.7	23.1	1.0	67	5.7		
BFO	e P	Z 03:34:01.0	77.3	21.3	0.9	41	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 05:01:38.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	10:24: 4.9	37.262N	25.065W	33.0N	5.1			SZGRF

Azores Islands, Portugal

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:29:59.9	28.8	258.3	2.3	80	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/08

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 11:29:40.5							
GEC2	e P	Z 11:29:31.2							
GRA1	e P	Z 11:29:45.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	14:10:53.9	20.026S	170.461E	32.7				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 14:30:23.0	144.1	37.9					
TANN	e PKPbc	Z 14:30:26.7	145.0	37.8					
	e pPKPbc	Z 14:30:36.7							
IBBN	e PKPbc	Z 14:30:27.0	145.0	29.2					
	e pPKPbc	Z 14:30:36.6							
MOX	e PKPbc	Z 14:30:26.9	145.1	36.4					
ROTZ	e PKPbc	Z 14:30:28.6	145.6	38.0					
GEC2	e PKPbc	Z 14:30:28.6	145.7	41.1					
WET	e PKPbc	Z 14:30:29.4	145.8	39.6					
GRA1	e PKPbc	Z 14:30:29.9	146.0	36.6					
STU	e PKPbc	Z 14:30:34.4	147.6	34.2					
WLF	e PKPbc	Z 14:30:35.8	147.8	28.5					
BFO	e PKPbc	Z 14:30:35.8	148.2	33.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	14:47: 9.2	35.979N	25.328W	15.0	5.3	4.6		SZGRF

Azores Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 14:52:44.1	26.6	251.0	1.1	245	5.9		
BFO	e P	Z 14:52:53.5	27.5	255.9	1.3	102	5.5		
STU	e P	Z 14:52:59.0	28.2	256.0	1.3	58	5.3		
IBBN	e P	Z 14:53:00.6	28.4	248.1	1.4	127	5.6		
	e pP	Z 14:53:04.3							
UBBA	e P	Z 14:53:08.6	29.2	253.3	1.7	58	5.1		
FUR	e P	Z 14:53:10.8	29.4	259.2	2.4	186	5.5		
GRA1	e P	Z 14:53:12.7	29.7	256.5	1.3	95	5.5		
	e L	Z 15:02:34.5			21.3	1558		4.6	
CLZ	e P	Z 14:53:12.9	29.8	252.0	1.8	58	5.1		
MOX	e P	Z 14:53:17.1	30.2	255.3	1.9	80	5.2		
ROTZ	e P	Z 14:53:18.2	30.3	257.4	1.3	42	5.1		
WET	e P	Z 14:53:20.9	30.6	259.1	1.8	32	5.0		
TANN	e P	Z 14:53:21.5	30.7	256.6	1.5	56	5.3		

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GEC2	e P	Z	14:53:25.4	31.1	260.3	1.7	66	5.3
CLL	e P	Z	14:53:25.3	31.2	255.7	1.6	43	5.1
BRG	e P	Z	14:53:29.6	31.7	257.3	1.4	43	5.2
	e pP	Z	14:53:33.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:31:53.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	18:26:14.7	37.797N	23.381W	33.0N	4.9	4.1		SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:31:57.3	27.4	257.5	1.1	27	4.9		
	e L	Z 18:41:18.2			21.4	587		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08	18:40:36.3	37.498N	24.043W	33.0N	4.5			SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:46:24.2	28.0	257.7	1.2	10	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/08								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 20:29:42.9							
CLL	e PKP	Z 20:29:43.1							
CLZ	e PKP	Z 20:29:45.3							
GEC2	e PKP	Z 20:29:45.7							
GRA1	e PKP	Z 20:29:47.3							
IBBN	e PKP	Z 20:29:46.6							
WET	e PKP	Z 20:29:46.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/08 20:38:15.3  
Azores Islands region

37.870N 23.100W 33.0N 5.2 4.8

SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 20:43:27.5	24.0	251.7	0.9	334	5.9		
BFO	e P	Z 20:43:37.0	25.0	257.0	1.2	148	5.6		
STU	e P	Z 20:43:43.0	25.6	257.0	1.0	72	5.3		
UBBA	e P	Z 20:43:52.5	26.7	253.9					
FUR	e P	Z 20:43:54.3	26.9	260.3	2.4	184	5.4		
GRA1	e P	Z 20:43:56.6	27.1	257.3	0.9	81	5.5		
	e L	Z 20:53:19.6			21.6	2727		4.8	
CLZ	e P	Z 20:43:57.0	27.2	252.4	1.5	32	4.8		
MOX	e P	Z 20:44:00.8	27.6	256.0	1.2	32	5.0		
ROTZ	e P	Z 20:44:02.1	27.8	258.2	1.0	40	5.2		
TANN	e P	Z 20:44:05.0	28.1	257.3					
WET	e P	Z 20:44:05.2	28.1	260.0	0.9	12	4.7		
GEC2	e P	Z 20:44:09.4	28.6	261.4	1.9	79	5.2		
CLL	e P	Z 20:44:09.6	28.6	256.2	1.0	25	5.0		
BRG	e P	Z 20:44:13.8	29.1	258.0	0.9	29	5.1		

Date Origin Time  
2007/04/08 22:09:43.8  
Gulf of Alaska

Lat Long Depth mb Ms  
58.838N 145.168W 33.0N 5.1

ML Source  
ML SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:20:51.1	69.8	347.2	1.9	34	5.1		

Date Origin Time  
2007/04/08 23:11: 7.5  
Owen Fracture Zone region

Lat Long Depth mb Ms  
15.620N 57.252E 23.9 5.1

ML Source  
ML SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:20:04.5	50.4	115.8	1.2	30	5.1		
	e pP	Z 23:20:11.0							

Date Origin Time  
2007/04/09 00:58:22.7  
Bougainville - Solomon Islands region

Lat Long Depth mb Ms  
6.900S 155.900E 55.2

ML Source  
ML NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 01:17:20.2	125.9	49.1					
CLL	e PKPdf	Z 01:17:20.6	126.1	47.8					
CLZ	e PKPdf	Z 01:17:22.4	126.9	44.6					

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TANN	e	PKPdf	Z	01:17:22.4	126.9	47.7
MOX	e	PKPdf	Z	01:17:22.5	127.2	46.7
GEC2	e	PKPdf	Z	01:17:23.0	127.3	49.9
MANZ	e	PKPdf	Z	01:17:23.1	127.4	47.6
ROTZ	e	PKPdf	Z	01:17:23.0	127.5	47.8
WET	e	PKPdf	Z	01:17:23.5	127.6	48.9
IBBN	e	PKPdf	Z	01:17:24.0	127.6	41.4
UBBA	e	PKPdf	Z	01:17:24.0	127.8	44.8
GRA1	e	PKPdf	Z	01:17:24.3	128.0	46.7
	e	pPKPdf	Z	01:17:40.7		
FUR	e	PKPdf	Z	01:17:26.1	129.0	47.7
STU	e	PKPdf	Z	01:17:27.3	129.6	45.0
WLF	e	PKPdf	Z	01:17:29.3	130.3	41.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKPdf	Z	01:20:20.7					
	e	pPKPdf	Z	01:20:41.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	02:24:29.5	20.200S	178.110W	607.2				SZGRF
Fiji Islands	region							

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e	PKPbc	Z	02:43:06.6	147.6	10.3			
	e	pPKPbc	Z	02:45:24.4					
CLZ	e	PKPdf	Z	02:43:03.4	147.7	15.0			
	e	PKPbc	Z	02:43:06.9					
	e	pPKPbc	Z	02:45:24.0					
CLL	e	PKPbc	Z	02:43:06.6	147.7	19.8			
	e	pPKPbc	Z	02:45:24.1					
BRG	e	PKPdf	Z	02:43:03.5	147.9	21.6			
	e	PKPbc	Z	02:43:07.2					
MOX	e	PKPbc	Z	02:43:08.8	148.6	17.7			
TANN	e	PKPdf	Z	02:43:04.7	148.6	19.3			
	e	PKPbc	Z	02:43:09.2					
	e	PKPab	Z	02:43:15.0					
UBBA	e	PKPbc	Z	02:43:09.1	148.7	14.8			
MANZ	e	PKPdf	Z	02:43:05.7	149.1	18.9			
	e	PKPbc	Z	02:43:10.5					
ROTZ	e	PKPbc	Z	02:43:10.6	149.3	19.2			
GRA1	e	PKPbc	Z	02:43:11.5	149.6	17.5			
	e	PKPab	Z	02:43:19.4					

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	e pPKPbc	Z	02:45:31.9		
WET	e PKPbc	Z	02:43:12.0	149.8	20.8
	e PKPab	Z	02:43:19.7		
GEC2	e PKPbc	Z	02:43:11.8	149.8	22.5
WLF	e PKPdf	Z	02:43:08.2	150.3	8.1
	e PKPbc	Z	02:43:13.4		
	e pPKPbc	Z	02:45:33.0		
STU	e PKPdf	Z	02:43:08.5	150.8	14.2
	e PKPbc	Z	02:43:14.3		
	e PKPab	Z	02:43:23.5		
FUR	e PKPdf	Z	02:43:08.0	151.0	18.4
	e PKPbc	Z	02:43:14.7		
	e PKPab	Z	02:43:24.6		
BFO	e PKPbc	Z	02:43:15.4	151.4	12.7
	e PKPab	Z	02:43:25.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	08:32:31.5	37.020N	23.510W	33.0N	5.0	4.1		SZGRF
Azores Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	08:37:50.6	24.8	250.6	1.1	171	5.7		
BFO	e P	Z	08:37:59.4	25.7	255.8	1.2	62	5.1		
STU	e P	Z	08:38:05.5	26.4	255.9	1.6	60	5.0		
IBBN	e P	Z	08:38:06.5	26.7	247.5	1.6	125	5.4		
FUR	e P	Z	08:38:17.1	27.6	259.2					
GRA1	e P	Z	08:38:19.0	27.9	256.3	1.1	25	5.0		
	e L	Z	08:47:43.8			21.9	507		4.1	
CLZ	e P	Z	08:38:19.8	28.0	251.5	1.5	17	4.7		
MOX	e P	Z	08:38:23.2	28.4	255.0	1.8	32	4.9		
MANZ	e P	Z	08:38:24.7	28.5	256.7	1.6	28	4.9		
ROTZ	e P	Z	08:38:24.7	28.6	257.2					
TANN	e P	Z	08:38:27.8	28.9	256.3	1.3	24	4.9		
GEC2	e P	Z	08:38:31.6	29.3	260.3	1.4	20	4.8		
CLL	e P	Z	08:38:32.0	29.4	255.3	1.4	15	4.6		
BRG	e P	Z	08:38:36.6	29.9	257.0	1.2	17	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	10:18:12.3	49.239N	153.861E	33.0N	6.2	5.8		SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	+ Z	10:29:44.7	74.1	25.4	1.0	345	6.4		
	e PP	Z	10:32:45.4							
	e PPP	Z	10:34:17.8							

	e S	E	10:39:21.0								
	e sS	E	10:39:37.0								
	e PS	N	10:40:06.6								
	e SS	N	10:44:06.1								
BRG	e P	Z	10:29:45.5	74.2	25.9	1.1	152	5.9			
CLZ	e P	Z	10:29:46.6	74.3	23.8	1.3	482	6.4			
IBBN	e P	Z	10:29:47.2	74.5	22.2	1.0	242	6.2			
TANN	e P	Z	10:29:50.6	75.0	24.9	1.8	273	6.0			
MOX	e P	Z	10:29:50.6	75.0	24.4	1.2	226	6.1			
UBBA	e P	Z	10:29:52.0	75.3	23.5	1.7	384	6.3			
MANZ	e P	Z	10:29:53.3	75.5	24.7	1.1	141	6.0			
ROTZ	e P	Z	10:29:54.5	75.7	24.7	1.1	238	6.2			
GRA1	e P	Z	10:29:56.6	76.0	24.1	1.1	442	6.5			
	e L	Z	11:07:28.7			20.5	5096	5.8			
WET	e P	Z	10:29:56.8	76.1	25.1	1.1	334	6.4			
GEC2	e P	Z	10:29:56.6	76.1	25.5	1.0	126	6.0			
WLF	e P	Z	10:30:03.6	77.3	21.0						
STU	e P	Z	10:30:03.7	77.4	22.8	1.2	278	6.3			
FUR	e P	Z	10:30:04.1	77.4	24.0	1.1	446	6.5			
BFO	e P	Z	10:30:07.1	78.0	22.2	1.2	251	6.2			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/09

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 10:37:55.0							
CLL	e PKP	Z 10:37:55.5							
CLZ	e PKP	Z 10:37:57.1							
GEC2	e PKP	Z 10:37:58.2							
GRA1	e PKP	Z 10:37:59.4							
STU	e PKP	Z 10:38:02.6							
WET	e PKP	Z 10:37:58.7							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/09 13:11:35.7 21.569S 167.011E 34.7  
 Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 13:31:03.8	143.9	45.7					
CLZ	e PKPbc	Z 13:31:06.6	144.7	39.7					
TANN	e PKPbc	Z 13:31:07.5	144.9	44.1					
MOX	e PKPbc	Z 13:31:08.0	145.1	42.6					
IBBN	e PKPbc	Z 13:31:09.6	145.4	35.4					
MANZ	e PKPbc	Z 13:31:09.1	145.4	44.0					
GEC2	e PKPbc	Z 13:31:09.3	145.4	47.4					

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ROTZ	e PKPbc	Z	13:31:09.7	145.5	44.4
	e pPKPbc	Z	13:31:20.1		
WET	e PKPbc	Z	13:31:10.1	145.6	46.0
UBBA	e PKPbc	Z	13:31:10.5	145.7	40.1
GRA1	e PKPbc	Z	13:31:11.5	146.0	43.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	13:11:35.2	21.757S	166.641E	34.5				SZGRF
New Caledonia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	13:31:03.9	143.9	46.4					
CLZ	e PKPbc	Z	13:31:06.9	144.8	40.4					
TANN	e PKPbc	Z	13:31:06.8	144.9	44.7					
MOX	e PKPbc	Z	13:31:08.0	145.1	43.3					
	e pPKPbc	Z	13:31:18.3							
MANZ	e PKPbc	Z	13:31:08.7	145.4	44.7					
IBBN	e PKPbc	Z	13:31:09.4	145.4	36.1					
GEC2	e PKPbc	Z	13:31:09.0	145.4	48.1					
ROTZ	e PKPbc	Z	13:31:09.6	145.5	45.0					
	e pPKPbc	Z	13:31:19.9							
WET	e PKPbc	Z	13:31:09.8	145.6	46.6					
UBBA	e PKPbc	Z	13:31:09.9	145.7	40.8					
GRA1	e PKPbc	Z	13:31:10.9	146.0	43.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	13:17: 3.0	20.241S	169.846E	37.6				SZGRF
Vanuatu Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	13:36:32.1	144.0	40.7					
CLL	e PKPbc	Z	13:36:32.2	144.0	38.9					
CLZ	e PKPbc	Z	13:36:34.6	144.6	34.6					
TANN	e PKPbc	Z	13:36:35.8	144.9	38.9					
IBBN	e PKPbc	Z	13:36:36.1	145.0	30.2					
MOX	e PKPbc	Z	13:36:36.2	145.1	37.4					
MANZ	e PKPbc	Z	13:36:37.4	145.4	38.8					
ROTZ	e PKPbc	Z	13:36:37.8	145.5	39.1					
GEC2	e PKPbc	Z	13:36:37.7	145.6	42.2					
WET	e PKPbc	Z	13:36:38.3	145.7	40.7					
GRA1	e PKPbc	Z	13:36:38.9	146.0	37.7					
	e pPKPbc	Z	13:36:50.2							



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 13:46:13.0							
GRA1	e P	Z 13:46:24.8							
ROTZ	e P	Z 13:46:23.5							
WET	e P	Z 13:46:25.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	16:10:15.3	20.362S	170.168E	33.2				SZGRF
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 16:29:45.0	144.2	40.3					
CLL	e PKPbc	Z 16:29:45.0	144.3	38.5					
CLZ	e PKPbc	Z 16:29:47.5	144.8	34.2					
TANN	e PKPbc	Z 16:29:48.6	145.2	38.5					
IBBN	e PKPbc	Z 16:29:49.1	145.3	29.8					
MOX	e PKPbc	Z 16:29:48.9	145.3	37.1					
MANZ	e PKPbc	Z 16:29:50.1	145.7	38.4					
UBBA	e PKPbc	Z 16:29:50.5	145.8	34.4					
ROTZ	e PKPbc	Z 16:29:50.7	145.8	38.7					
GEC2	e PKPbc	Z 16:29:50.6	145.9	41.8					
WET	e PKPbc	Z 16:29:51.0	146.0	40.3					
GRA1	e PKPbc	Z 16:29:51.9	146.2	37.3					
	e pPKPbc	Z 16:30:01.8							
FUR	e PKPbc	Z 16:29:55.4	147.4	38.8					
STU	e PKPbc	Z 16:29:56.1	147.8	35.0					
WLF	e PKPbc	Z 16:29:57.7	148.1	29.2					
BFO	e PKPbc	Z 16:29:57.6	148.4	33.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	20:48:39.8	2.851S	89.397E	36.9	4.9			SZGRF
South Indian Ocean								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:01:00.8	82.8	102.7					
BRG	e P	Z 21:01:02.4	83.1	103.2	1.8	18	5.0		
WET	e P	Z 21:01:03.7	83.4	102.1	1.0	8	4.9		
CLL	e P	Z 21:01:05.5	83.8	102.5	1.0	9	5.0		
TANN	e P	Z 21:01:06.7	83.9	101.9					
ROTZ	e P	Z 21:01:07.1	84.0	101.7					
MANZ	e P	Z 21:01:07.9	84.1	101.6					
FUR	e P	Z 21:01:07.8	84.3	100.8					

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MOX	e P	Z	21:01:09.4	84.5	101.3	1.3	6	4.7
GRA1	e P	Z	21:01:10.2	84.6	100.9	1.3	16	5.1
	e pP	Z	21:01:20.9					
CLZ	e P	Z	21:01:14.4	85.5	100.4	1.0	8	4.9
BFO	e P	Z	21:01:18.0	86.2	98.6			
IBBN	e P	Z	21:01:22.8	87.2	98.4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	21:27: 7.6	39.032N	42.296E	33.0N	4.7			SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:32:06.8	22.6	104.9	1.3	25	4.6		
BRG	e P	Z 21:32:11.0	23.1	109.8					
WET	e P	Z 21:32:12.2	23.2	104.7	1.2	15	4.4		
CLL	e P	Z 21:32:16.9	23.8	109.6	2.2	41	4.6		
ROTZ	e P	Z 21:32:18.1	23.8	105.3					
FUR	e P	Z 21:32:19.9	24.0	100.7					
GRA1	e P	Z 21:32:23.5	24.4	104.0	2.5	153	5.1		
CLZ	e P	Z 21:32:33.1	25.5	107.5					
STU	e P	Z 21:32:33.7	25.5	99.9					
IBBN	e P	Z 21:32:48.6	27.2	105.4					
WLF	e P	Z 21:32:53.1	27.6	98.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 22:25:43.5							
CLZ	e P	Z 22:25:45.5							
GRA1	e P	Z 22:25:55.1							
ROTZ	e P	Z 22:25:54.0							
WET	e P	Z 22:25:55.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09	22:24:35.6	14.606N	51.023E	33.0N	4.7			SZGRF

Eastern Gulf of Aden

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 22:32:55.2	45.9	125.2	1.8	10	4.5		
FUR	e P	Z 22:33:02.5	46.8	122.0					
BRG	e P	Z 22:33:02.8	46.9	127.0					
ROTZ	e P	Z 22:33:04.4	47.2	124.2					

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MANZ	e P	Z	22:33:06.0	47.4	124.3				
GRA1	e P	Z	22:33:08.5	47.7	123.1	1.5	10	4.7	
MOX	e P	Z	22:33:11.6	48.0	124.2	1.8	16	4.8	
BFO	e P	Z	22:33:16.2	48.6	119.0				
CLZ	e P	Z	22:33:22.1	49.3	123.8				
WLF	e P	Z	22:33:30.4	50.5	117.8				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 23:30:29.0							
CLL	e P	Z 23:30:44.6							
CLZ	e P	Z 23:31:00.0							
GEC2	e P	Z 23:30:01.4							
MOX	e P	Z 23:30:38.7							
STU	e P	Z 23:30:26.5							
WET	e P	Z 23:30:17.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/10	00:35: 6.1	15.110S	12.690W	33.0N	4.6	4.3		SZGRF
Southern Mid-Atlantic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 00:45:49.1	66.1	202.2	1.2	6	4.7		
FUR	e P	Z 00:45:53.0	66.8	205.3	1.1	8	4.8		
WET	e P	Z 00:46:01.7	68.1	206.7	1.2	3	4.4		
GRA1	e P	Z 00:46:01.0	68.2	204.9	0.9	3	4.6		
	e L	Z 01:13:06.3			21.3	175		4.3	
ROTZ	e P	Z 00:46:03.9	68.5	205.9	1.4	6	4.6		
TANN	e P	Z 00:46:08.3	69.1	206.0	1.0	2	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/10								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:23:16.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/10	03:15:52.8	41.125N	25.600E	5.0G				KAN
Greece-Bulgaria border region								



Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:43:48.8	11.8	148.6					
	e L	Z	10:48:59.1			19.0	6494		4.6	
FUR	e L	Z	10:49:41.1	12.2	138.8	18.3	3285		4.4	
WET	e P	Z	10:43:56.1	12.4	146.6					
	e L	Z	10:49:18.5			20.9	6171		4.6	
ROTZ	e P	Z	10:44:07.4	13.1	146.0					
MANZ	e P	Z	10:44:10.5	13.3	146.3					
GRA1	e P	Z	10:44:13.5	13.4	142.9					
	e L	Z	10:50:03.0			21.0	5983		4.6	
BRG	e L	Z	10:49:35.4	13.5	153.8	19.5	4092		4.5	
TANN	e P	Z	10:44:15.4	13.6	148.3					
	e L	Z	10:49:54.2			18.8	5569		4.7	
GUNZ	e P	Z	10:44:14.8	13.6	147.8					
STU	e P	Z	10:44:12.4	13.6	134.7					
	e L	Z	10:49:45.2			21.1	2224		4.2	
WERD	e P	Z	10:44:16.5	13.7	147.9					
BFO	e P	Z	10:44:13.4	13.7	131.1					
	e L	Z	10:50:00.9			18.7	2651		4.3	
FBE	e P	Z	10:44:15.4	13.7	152.0					
MOX	e P	Z	10:44:20.3	14.1	146.3					
	e L	Z	10:50:19.9			19.9	5859		4.7	
CLL	e P	Z	10:44:21.6	14.2	151.7					
	e L	Z	10:50:28.3			18.8	5209		4.7	
UBBA	e P	Z	10:44:32.6	14.8	142.2					
CLZ	e P	Z	10:44:41.5	15.5	145.4					
	e L	Z	10:51:14.0			18.7	5921		4.8	
WLF	e P	Z	10:44:40.7	15.7	129.8					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/10 13:56:45.4 11.500N 93.010E 27.7 5.5 4.9  
 Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:08:20.5	74.2	91.1	0.9	46	5.5		
GEC2	e P	Z	14:08:21.3	74.4	90.3	0.9	53	5.6		
	e pP	Z	14:08:29.4							
CLL	e P	Z	14:08:23.5	74.8	90.5	2.5	245	5.8		
	e pP	Z	14:08:31.5							
WET	e P	Z	14:08:24.4	74.9	89.8	1.0	43	5.4		
	e pP	Z	14:08:32.2							
TANN	e P	Z	14:08:25.9	75.2	89.8	1.2	33	5.2		
	e pP	Z	14:08:33.7							
ROTZ	e P	Z	14:08:27.4	75.3	89.5	1.1	58	5.5		
	e PP	Z	14:11:16.3							
MANZ	e P	Z	14:08:27.7	75.4	89.4	1.0	54	5.5		

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MOX	e P	Z	14:08:29.0	75.7	89.2	0.9	36	5.5		
	e pP	Z	14:08:37.0							
	e PP	Z	14:11:19.3							
GRA1	e P	Z	14:08:31.1	76.0	88.7	1.0	57	5.7		
	e pP	Z	14:08:38.8							
	e PP	Z	14:11:19.3							
	e S	R	14:18:04.3							
	e L	Z	14:48:16.6			19.8	530		4.9	
FUR	e P	Z	14:08:30.3	76.0	88.3	0.8	24	5.4		
CLZ	e P	Z	14:08:33.4	76.4	88.6	0.9	61	5.7		
UBBA	e P	Z	14:08:34.7	76.7	88.0	1.8	52	5.4		
	e PP	Z	14:11:27.3							
STU	e P	Z	14:08:38.2	77.3	86.9	0.5	29	5.6		
BFO	e P	Z	14:08:41.4	77.9	86.2	1.3	32	5.3		
IBBN	e P	Z	14:08:42.4	78.0	86.6	0.8	73	5.8		
WLF	e P	Z	14:08:49.7	79.2	84.9	1.5	85	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/10	15:22:50.5	47.185N	156.045E	33.0N	4.9			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 15:34:37.4	76.5	24.8	1.2	19	5.0		
BRG	e P	Z 15:34:38.4	76.7	25.4	1.4	12	4.8		
CLZ	e P	Z 15:34:37.3	76.7	23.2	1.4	13	4.8		
MOX	e P	Z 15:34:43.3	77.5	23.9	0.9	7	4.8		
MANZ	e P	Z 15:34:45.9	78.0	24.1	1.0	7	4.7		
ROTZ	e P	Z 15:34:47.2	78.1	24.2	1.2	12	4.9		
GRA1	e P	Z 15:34:48.6	78.5	23.6	1.5	37	5.3		
WET	e P	Z 15:34:48.6	78.5	24.6	1.2	14	5.0		
GEC2	e P	Z 15:34:48.8	78.6	25.1	1.0	5	4.6		
BFO	e P	Z 15:34:59.1	80.4	21.6	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/10	21:39:11.0	37.338N	31.839E	10.0G	4.4	3.6		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:43:13.2	17.5	124.4	1.4	28	4.2		
WET	e P	Z 21:43:21.6	18.1	123.7	1.3	30	4.3		
FUR	e P	Z 21:43:25.3	18.5	118.3	1.5	54	4.6		
BRG	e P	Z 21:43:25.4	18.6	129.9	1.7	22	4.1		
ROTZ	e P	Z 21:43:29.4	18.8	124.0	1.2	31	4.4		
MANZ	e P	Z 21:43:31.5	19.0	124.3	1.2	25	4.3		
TANN	e P	Z 21:43:32.0	19.0	126.0	1.1	11	4.0		

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GRA1	e P	Z	21:43:35.0	19.3	122.0	1.4	17	4.1		
	e L	Z	21:52:25.2			19.2	258		3.6	
CLL	e P	Z	21:43:36.2	19.3	129.0	1.9	42	4.4		
MOX	e P	Z	21:43:39.1	19.6	125.0	1.2	50	4.6		
STU	e P	Z	21:43:42.9	20.0	116.4	1.1	42	4.6		
BFO	e P	Z	21:43:46.9	20.3	114.0	1.5	37	4.4		
UBBA	e P	Z	21:43:49.0	20.5	122.6	1.5	28	4.4		
CLZ	e P	Z	21:43:52.9	20.9	125.4	1.0	60	4.9		
WLF	e P	Z	21:44:07.0	22.2	114.0	1.2	17	4.4		
IBBN	e P	Z	21:44:10.3	22.5	122.1	1.0	44	4.9		

Date 2007/04/10  
 Origin Time 22:00:25.2  
 Lat 37.118N  
 Long 31.917E  
 Depth 10.0G  
 mb 4.6  
 Ms 4.2  
 ML  
 Source SZGRF  
 Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:04:28.5	17.7	124.8	1.7	93	4.6		
WET	e P	Z	22:04:37.4	18.3	124.0	1.6	80	4.6		
BRG	e P	Z	22:04:43.2	18.8	130.2	1.6	50	4.5		
ROTZ	e P	Z	22:04:45.5	19.0	124.3	1.3	41	4.5		
MANZ	e P	Z	22:04:48.2	19.2	124.6	1.4	49	4.5		
TANN	e P	Z	22:04:48.4	19.2	126.3	1.9	70	4.6		
GRA1	e P	Z	22:04:51.2	19.5	122.3	1.8	53	4.5		
	e S	N	22:08:16.5							
	e L	Z	22:13:41.4			19.3	1214		4.2	
CLL	e P	Z	22:04:52.2	19.5	129.3	1.6	46	4.5		
MOX	e P	Z	22:04:55.9	19.8	125.3	1.4	90	4.8		
STU	e P	Z	22:04:59.2	20.2	116.8	1.2	57	4.7		
BFO	e P	Z	22:05:02.8	20.5	114.4	2.1	123	4.9		
UBBA	e P	Z	22:05:05.6	20.7	122.9	1.5	31	4.4		
CLZ	e P	Z	22:05:08.9	21.1	125.7	1.2	102	5.0		
WLF	e P	Z	22:05:23.7	22.4	114.3	1.4	23	4.4		
IBBN	e P	Z	22:05:26.6	22.7	122.4	0.9	41	5.0		

Date 2007/04/11  
 Origin Time 02:52:54.3  
 Lat 21.740S  
 Long 169.040E  
 Depth 36.1  
 mb  
 Ms  
 ML  
 Source SZGRF  
 Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	03:12:25.9	145.0	43.0					
CLL	e PKPbc	Z	03:12:26.4	145.1	41.2					
CLZ	e PKPbc	Z	03:12:28.7	145.7	36.8					
TANN	e PKPbc	Z	03:12:29.5	146.0	41.3					
MOX	e PKPbc	Z	03:12:30.1	146.1	39.8					
IBBN	e PKPbc	Z	03:12:30.2	146.2	32.4					

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MANZ	e	PKPbc	Z	03:12:31.3	146.4	41.2
ROTZ	e	PKPbc	Z	03:12:31.8	146.5	41.5
GEC2	e	PKPbc	Z	03:12:31.3	146.6	44.7
UBBA	e	PKPbc	Z	03:12:31.7	146.6	37.2
WET	e	PKPbc	Z	03:12:32.3	146.7	43.2
GRA1	e	PKPbc	Z	03:12:32.9	147.0	40.1
	e	pPKPbc	Z	03:12:43.7		
STU	e	PKPbc	Z	03:12:37.7	148.6	37.9
WLF	e	PKPbc	Z	03:12:38.9	149.0	32.0
BFO	e	PKPbc	Z	03:12:38.8	149.3	36.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/11	09:57:49.8	37.490N	32.680E	33.0G	4.0			SZGRF
Turkey								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	10:02:02.7	18.4	121.8	1.0	6	3.6		
ROTZ	e P	Z	10:02:11.4	19.1	122.1	1.1	6	3.7		
MOX	e P	Z	10:02:20.7	19.9	123.2	1.4	19	4.1		
BFO	e P	Z	10:02:28.7	20.7	112.5	1.4	12	4.0		
CLZ	e P	Z	10:02:33.7	21.2	123.7	1.2	20	4.3		
NRDL	e P	Z	10:02:39.1	21.7	124.7	2.1	41	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/11	10:06:53.9	38.770N	30.390E	33.0N	4.1			SZGRF
Turkey								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:10:36.3	15.6	123.9	1.8	21	4.0		
WET	e P	Z	10:10:42.6	16.3	123.1	1.8	28	4.1		
ROTZ	e P	Z	10:10:51.8	17.0	123.5	1.3	13	3.9		
GRA1	e P	Z	10:10:56.0	17.5	121.4	1.2	14	4.0		
MOX	e P	Z	10:11:01.5	17.8	124.7	1.3	16	4.0		
BFO	e P	Z	10:11:08.8	18.5	112.9	1.3	17	4.1		
UBBA	e P	Z	10:11:11.0	18.7	122.2	1.7	25	4.2		
CLZ	e P	Z	10:11:13.8	19.1	125.3	1.7	43	4.4		
NRDL	e P	Z	10:11:23.5	19.6	126.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/11	10:13:44.8	47.159N	153.596E	33.0N	4.6			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 10:25:39.4 77.8 25.1 1.0 5 4.6

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/11 10:31: 9.6 47.688N 152.977E 33.0G 5.3  
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z 10:42:47.5	74.9	24.9	1.7	43	5.2		
CLL	e P	Z 10:42:48.9	75.2	26.6	1.1	52	5.6		
BRG	e P	Z 10:42:51.1	75.4	27.1	1.6	50	5.4		
CLZ	e P	Z 10:42:50.9	75.5	25.0	1.1	49	5.5		
MOX	e P	Z 10:42:54.7	76.2	25.6	1.7	49	5.4		
UBBA	e P	Z 10:42:57.2	76.5	24.6	1.8	49	5.3		
MANZ	e P	Z 10:42:57.3	76.7	25.9	1.3	18	5.0		
ROTZ	e P	Z 10:42:58.5	76.8	25.9	1.3	29	5.3		
GRA1	e P	Z 10:43:00.6	77.2	25.3	1.0	39	5.5		
WET	e P	Z 10:43:00.6	77.2	26.3	1.2	19	5.1		
GEC2	e P	Z 10:43:00.3	77.2	26.8	1.0	8	4.8		
STU	e P	Z 10:43:08.8	78.6	23.9					
BFO	e P	Z 10:43:11.4	79.2	23.4	1.1	32	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/11 12:41:39.1 16.440S 173.380W 35.0  
Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z 13:01:13.4	145.6	8.5					
TANN	e PKPbc	Z 13:01:13.9	145.7	10.0					
MANZ	e PKPbc	Z 13:01:15.2	146.2	9.5					
ROTZ	e PKPbc	Z 13:01:15.7	146.4	9.7					
GRA1	e PKPbc	Z 13:01:16.8	146.5	8.0					
WLF	e PKPbc	Z 13:01:17.3	146.8	359.2					
WET	e PKPbc	Z 13:01:18.0	146.9	11.0					
GEC2	e PKPbc	Z 13:01:17.9	147.1	12.6					
STU	e PKPbc	Z 13:01:19.7	147.6	4.6					
BFO	e PKPbc	Z 13:01:20.7	148.1	3.1					

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/11 16:26:40.2 20.123S 170.116E 35.0  
Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 16:46:07.7	144.0	40.2					

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CLZ	e	PKPbc	Z	16:46:09.7	144.6	34.1
TANN	e	PKPbc	Z	16:46:12.7	144.9	38.4
MOX	e	PKPbc	Z	16:46:12.3	145.1	37.0
MANZ	e	PKPbc	Z	16:46:13.9	145.4	38.3
GEC2	e	PKPbc	Z	16:46:13.9	145.6	41.7
GRA1	e	PKP	Z	16:46:15.3	146.0	37.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/12	02:59:27.1	19.032S	68.423W	33.0N	5.6			SZGRF
Chile-Bolivia border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 03:12:45.7	94.9	246.2					
BFO	e P	Z 03:12:48.4	95.7	247.6					
STU	e P	Z 03:12:52.3	96.4	248.3					
IBBN	e P	Z 03:12:54.2	96.9	247.6					
FUR	e P	Z 03:12:57.5	97.5	249.7					
GRA1	e P	Z 03:13:00.0	98.0	249.9	0.9	13	5.6		
MOX	e P	Z 03:13:02.1	98.5	250.3					
WET	e P	Z 03:13:03.6	98.8	251.0					
TANN	e P	Z 03:13:04.3	99.0	250.9					
CLL	e P	Z 03:13:06.9	99.6	251.4					
BRG	e P	Z 03:13:08.6	100.0	252.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 03:41:26.4							
GRA1	e P	Z 03:41:29.9							
MOX	e P	Z 03:41:16.2							
WET	e P	Z 03:40:53.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 03:52:27.6							
CLL	e PKPbc	Z 03:52:27.6							
CLZ	e PKPbc	Z 03:52:30.2							
GEC2	e PKPbc	Z 03:52:33.2							
	e pPKPbc	Z 03:52:43.9							
GRA1	e PKPbc	Z 03:52:35.2							



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPdf	Z 15:32:18.0							
BRG	e PKPdf	Z 15:32:14.6							
CLL	e PKPdf	Z 15:32:14.5							
CLZ	e PKPdf	Z 15:32:16.0							
GEC2	e PKPdf	Z 15:32:16.9							
GRA1	e PKPdf	Z 15:32:18.4							
IBBN	e PKPdf	Z 15:32:16.9							
ROTZ	e PKPdf	Z 15:32:17.4							
TANN	e PKPdf	Z 15:32:16.7							
UBBA	e PKPdf	Z 15:32:17.5							
WET	e PKPdf	Z 15:32:17.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/12	17:15:42.0	15.981S	174.230W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 17:35:08.9	143.3	7.0					
CLZ	e PKPbc	Z 17:35:11.3	144.0	7.5					
CLL	e PKPbc	Z 17:35:11.7	144.2	11.9					
BRG	e PKPbc	Z 17:35:12.8	144.5	13.6					
MOX	e PKPbc	Z 17:35:14.5	145.0	9.8					
TANN	e PKPbc	Z 17:35:15.1	145.1	11.3					
ROTZ	e PKPbc	Z 17:35:17.2	145.8	11.1					
GRA1	e PKPbc	Z 17:35:17.8	146.0	9.4					
WLF	e PKPbc	Z 17:35:19.1	146.3	0.7					
GEC2	e PKPbc	Z 17:35:18.9	146.5	13.9					
FUR	e PKPbc	Z 17:35:22.7	147.5	9.9					
BFO	e PKPbc	Z 17:35:22.1	147.6	4.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/12	18:24:49.0	61.800S	161.000E	10.0G	6.0			NEIC

Balleny Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 18:44:50.5	159.7	133.5					
	e PKPab	Z 18:45:29.3			2.2	54			
	e PP	Z 18:49:08.7							
	e (PPP)	Z 18:52:45.6							
	e PPS	E 19:02:34.7							
	e SS	E 19:09:19.4							
	e SSS	N 19:15:37.0							
	e LR	Z 19:42:28.8							



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:51:07.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	05:42:20.7	16.636N	100.753W	36.3	5.7	5.8		SZGRF

Near coast of Guerrero, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 05:55:06.2	87.8	293.5	1.2	57	5.7		
NRDL	e P	Z 05:55:10.7	88.9	296.4	1.2	46	5.6		
	e pP	Z 05:55:21.4							
CLZ	e P	Z 05:55:13.3	89.3	296.6	1.2	65	5.7		
	e PP	Z 05:58:41.0							
UBBA	e P	Z 05:55:14.3	89.6	296.4	1.7	83	5.8		
	e PP	Z 05:58:43.9							
BFO	e P	Z 05:55:14.0	89.7	295.1	1.5	40	5.5		
	e pP	Z 05:55:24.6							
	e PP	Z 05:58:42.0							
MOX	e P	Z 05:55:18.6	90.6	297.6	1.5	45	5.6		
	e pP	Z 05:55:29.6							
	e PP	Z 05:58:51.1							
GRA1	e P	Z 05:55:20.4	90.8	297.3	1.6	74	5.8		
	e pP	Z 05:55:31.0							
	e PP	Z 05:58:53.2							
	e S	T 06:06:17.4							
	e SS	T 06:11:59.1							
	e L	Z 06:37:25.0			19.8	3350		5.8	
CLL	e P	Z 05:55:20.6	91.0	298.7	1.5	40	5.5		
	e pP	Z 05:55:31.5							
	e sP	Z 05:55:34.8							
	e PP	Z 05:58:51.5							
	e SKSac	E 06:05:52.0							
	e S	N 06:06:10.7							
	e PS	E 06:07:21.9							
	e SS	N 06:12:12.5							
	e PKKPdf	Z 06:12:45.8							
	e SSS	E 06:15:55.4							
	e LR	Z 06:25:42.4							
TANN	e P	Z 05:55:21.6	91.1	298.3	1.5	50	5.6		
	e pP	Z 05:55:32.4							
	e PP	Z 05:58:55.9							
MANZ	e P	Z 05:55:21.7	91.1	298.0	1.7	44	5.5		
	e PP	Z 05:58:56.1							
ROTZ	e P	Z 05:55:22.5	91.3	298.1	1.6	48	5.6		
	e PP	Z 05:58:56.3							
BRG	e P	Z 05:55:24.1	91.7	299.4	1.7	83	5.9		

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	e PP	Z	05:58:59.3						
WET	e P	Z	05:55:25.6	92.0	298.6	1.7		86	5.9
	e pP	Z	05:55:36.4						
GEC2	e P	Z	05:55:28.1	92.6	299.2	1.8		74	5.7
	e PP	Z	05:59:06.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	08:43:48.8	17.190N	99.380W	36.7	5.2	5.0		SZGRF

Guerrero, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	08:56:29.3	86.5	293.8	0.6	14	5.3		
WLF	e P	Z	08:56:29.6	86.6	292.8	1.3	36	5.3		
	e PP	Z	08:59:51.9							
NRDL	e P	Z	08:56:34.7	87.7	295.7	1.3	21	5.3		
CLZ	e P	Z	08:56:36.6	88.1	295.9	1.3	34	5.5		
	e PP	Z	09:00:04.0							
UBBA	e P	Z	08:56:38.2	88.3	295.6	1.4	18	5.1		
BFO	e P	Z	08:56:37.5	88.4	294.4	1.2	14	5.0		
	e PP	Z	09:00:06.3							
STU	e P	Z	08:56:39.4	88.8	295.1					
MOX	e P	Z	08:56:42.9	89.3	296.9	1.5	23	5.2		
	e PP	Z	09:00:13.8							
GRA1	e P	Z	08:56:43.5	89.5	296.6	1.7	51	5.5		
	e pP	Z	08:56:54.7							
	e S	T	09:07:28.8							
	e L	Z	09:38:47.1			19.2	527		5.0	
CLL	e P	Z	08:56:44.9	89.8	297.9	1.4	18	5.1		
	e PP	Z	09:00:17.4							
MANZ	e P	Z	08:56:44.7	89.9	297.3	1.5	16	5.0		
TANN	e P	Z	08:56:45.2	89.9	297.5	1.6	24	5.2		
	e PP	Z	09:00:19.0							
ROTZ	e P	Z	08:56:46.1	90.1	297.3	1.4	12	4.9		
	e PP	Z	09:00:19.8							
BRG	e P	Z	08:56:47.5	90.5	298.7	1.8	31	5.3		
	e pP	Z	08:56:58.5							
WET	e P	Z	08:56:49.2	90.8	297.8	1.7	37	5.4		
GEC2	e P	Z	08:56:52.2	91.4	298.5	1.8	24	5.2		
	e pP	Z	08:57:02.2							
	e PP	Z	09:00:30.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	09:14:50.7	1.200S	126.900E	10.0				NEIC

Southern Molucca Sea

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:33:39.2	107.2	70.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	12:21:0.5	3.160N	96.560E	33.0N	4.7			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:33:22.3	82.9	93.7	1.2	7	4.8		
GEC2	e P	Z 12:33:22.2	82.9	93.3					
WET	e P	Z 12:33:24.6	83.5	92.7	0.9	4	4.7		
CLL	e P	Z 12:33:25.3	83.5	93.1	1.3	6	4.6		
TANN	e P	Z 12:33:25.7	83.8	92.5	1.0	3	4.5		
ROTZ	e P	Z 12:33:27.4	83.9	92.3	0.9	4	4.6		
MANZ	e P	Z 12:33:28.1	84.0	92.2	1.1	7	4.8		
MOX	e P	Z 12:33:29.1	84.4	91.9	1.4	8	4.8		
GRA1	e P	Z 12:33:31.0	84.6	91.5	0.7	8	5.1		
CLZ	e P	Z 12:33:33.5	85.2	91.0					
NRDL	e P	Z 12:33:34.8	85.3	90.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	14:42:31.1	18.092N	102.675W	33.0N	5.0			SZGRF

Michoacan, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:55:30.8	90.7	299.6	1.1	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	18:11:5.0	34.240N	140.880E	33.0N	5.4			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:23:23.9	82.0	39.4	0.9	27	5.4		
BRG	e P	Z 18:23:28.5	82.9	41.7	1.0	22	5.3		
CLL	e P	Z 18:23:28.5	83.0	41.1	0.9	38	5.6		
NRDL	e P	Z 18:23:30.1	83.2	39.1	1.2	15	5.1		
CLZ	e P	Z 18:23:32.4	83.6	39.2	1.2	49	5.6		
TANN	e P	Z 18:23:33.4	83.9	40.6	0.9	12	5.1		
MOX	e P	Z 18:23:34.2	84.1	40.1	0.9	23	5.4		
IBBN	e P	Z 18:23:35.1	84.3	37.3	0.8	35	5.6		
MANZ	e P	Z 18:23:35.8	84.4	40.4	0.8	23	5.5		
ROTZ	e P	Z 18:23:36.8	84.5	40.4	1.0	26	5.4		
GEC2	e P	Z 18:23:36.4	84.6	41.4	0.7	16	5.3		



UBBA	e P	Z	18:23:36.7	84.6	38.9	0.8	9	5.1
WET	e P	Z	18:23:37.5	84.7	40.9	1.2	18	5.2
GRA1	e P	Z	18:23:39.1	85.0	39.7	0.9	40	5.6
FUR	e P	Z	18:23:44.5	86.1	39.7	0.6	24	5.5
STU	e P	Z	18:23:46.2	86.5	38.2	1.2	31	5.3
WLF	e P	Z	18:23:49.0	87.0	36.0	1.1	22	5.2
BFO	e P	Z	18:23:49.6	87.2	37.6	0.9	23	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	18:24:17.2	34.960S	110.170W	10.0		5.8		SZGRF
Southern East Pacific Rise								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPdf	Z	18:43:30.9	132.2	262.7					
BFO	e PKPdf	Z	18:43:34.5	133.5	263.0					
	e PP	Z	18:46:03.1							
IBBN	e PP	Z	18:46:02.4	133.5	266.3					
UBBA	e PKPdf	Z	18:43:36.5	134.8	266.5					
NRDL	e PKPdf	Z	18:43:36.0	134.9	268.3					
	e PP	Z	18:46:10.6							
CLZ	e PKPdf	Z	18:43:35.8	135.1	267.8					
	e PP	Z	18:46:10.9							
BSEG	e PKPdf	Z	18:43:36.6	135.1	269.9					
	e PP	Z	18:46:10.6							
FUR	e PKPdf	Z	18:43:36.6	135.4	264.8					
GRA1	e PKPdf	Z	18:43:37.1	135.5	266.3					
	e PP	Z	18:46:12.8							
	e SS	N	19:04:05.0							
	e L	Z	19:40:14.2			21.5	1789		5.8	
MOX	e PKPdf	Z	18:43:38.0	135.8	267.6					
MANZ	e PKPdf	Z	18:43:38.4	136.1	267.3					
	e PP	Z	18:46:16.6							
ROTZ	e PKPdf	Z	18:43:37.8	136.1	267.1					
TANN	e PKPdf	Z	18:43:38.7	136.3	268.0					
	e PP	Z	18:46:16.4							
WET	e PKPdf	Z	18:43:38.4	136.5	266.9					
CLL	e PKPdf	Z	18:43:39.3	136.7	269.3					
	e PP	Z	18:46:20.1							
GEC2	e PKPdf	Z	18:43:39.7	137.1	267.2					
BRG	e PKPdf	Z	18:43:40.0	137.3	269.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	20:42:34.6	36.153N	141.595E	33.0N	4.9			SZGRF
Near east coast of eastern Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:55:00.0	83.6	38.2	0.9	6	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	21:56:59.4	53.750N	169.510W	33.0N	5.2	4.9		SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 22:08:24.5	72.3	359.9	1.0	23	5.2		
NRDL	e P	Z 22:08:32.5	73.8	359.8	1.1	22	5.1		
IBBN	e P	Z 22:08:34.0	73.9	358.3	1.3	62	5.5		
CLZ	e P	Z 22:08:37.1	74.4	359.9	1.1	32	5.3		
CLL	e P	Z 22:08:39.4	74.9	1.5	1.0	15	5.0		
BRG	e P	Z 22:08:41.9	75.3	2.1	1.1	17	5.1		
UBBA	e P	Z 22:08:42.2	75.4	359.7	1.6	18	5.0		
MOX	e P	Z 22:08:43.6	75.6	0.7	1.1	25	5.2		
TANN	e P	Z 22:08:44.9	75.8	1.2	1.4	15	4.9		
MANZ	e P	Z 22:08:47.2	76.3	1.0	1.2	12	4.9		
ROTZ	e P	Z 22:08:48.3	76.5	1.0	1.3	20	5.1		
WLF	e P	Z 22:08:48.8	76.5	357.4	1.2	19	5.1		
GRA1	e P	Z 22:08:49.6	76.6	0.4	1.1	33	5.4		
	e L	Z 22:51:32.2			18.4	503		4.9	
WET	e P	Z 22:08:52.1	77.1	1.4	1.3	22	5.1		
GEC2	e P	Z 22:08:53.5	77.4	1.9	1.1	16	5.1		
STU	e P	Z 22:08:54.0	77.5	359.2	1.1	21	5.2		
BFO	e P	Z 22:08:56.3	77.9	358.7	1.1	25	5.2		
FUR	e P	Z 22:08:57.8	78.1	0.5	1.2	43	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/13	23:36:51.4	52.632N	167.808W	33.0N	4.9			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:48:45.1	77.7	359.4	1.1	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	00:47:57.5	37.044N	86.287E	12.8	4.4			SZGRF

Southern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:57:19.0	53.7	73.2	1.1	4	4.4		
	e pP	Z 00:57:22.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	00:47:56.1	52.192N	169.896W	33.0N	4.7			SZGRF
Fox Islands, Aleutian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:59:52.2	78.1	0.7	1.0	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	03:02:37.8	7.800N	127.100E	53.0				NEIC
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 03:16:18.8	100.2	64.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	04:30:33.5	37.326N	39.709E	33.0N	4.3			SZGRF
Turkey								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:35:44.6	23.9	110.4	1.5	16	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	10:00:52.8	36.300S	97.700W	10.0		4.6		NEIC
West Chile Rise								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:20:00.7	128.4	256.5					
	e L	Z 11:07:38.5			21.1	149		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	16:46:25.3	20.269S	170.057E	39.5				SZGRF
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 17:05:55.3	144.1	40.4					
CLL	e PKPbc	Z 17:05:55.2	144.1	38.6					
CLZ	e PKPbc	Z 17:05:57.7	144.7	34.3					
TANN	e PKPbc	Z 17:05:58.5	145.0	38.6					
IBBN	e PKPbc	Z 17:05:59.0	145.1	29.9					

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MOX	e	PKPbc	Z	17:05:58.9	145.2	37.2
MANZ	e	PKPbc	Z	17:06:00.0	145.5	38.5
ROTZ	e	PKPbc	Z	17:06:00.2	145.7	38.8
GEC2	e	PKPbc	Z	17:06:00.6	145.7	41.9
	e	pPKPbc	Z	17:06:12.5		
WET	e	PKPbc	Z	17:06:00.8	145.9	40.4
GRFO	e	PKPbc	Z	17:06:01.5	146.1	37.4
STU	e	PKPbc	Z	17:06:06.2	147.6	35.1
WLF	e	PKPbc	Z	17:06:07.4	147.9	29.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	17:22:33.9	43.599N	98.804E	33.0N	4.9			SZGRF

Mongolia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:32:01.2	54.8	61.9	1.1	12	4.9		
CLL	e P	Z 17:32:03.1	55.2	61.6	0.8	12	5.0		
BSEG	e P	Z 17:32:04.9	55.3	61.7	1.3	22	5.0		
TANN	e P	Z 17:32:09.0	55.9	60.8					
GEC2	e P	Z 17:32:09.6	55.9	60.6	1.0	4	4.4		
MOX	e P	Z 17:32:11.5	56.2	60.5	1.1	10	4.8		
WET	e P	Z 17:32:12.2	56.3	60.3	1.0	9	4.8		
CLZ	e P	Z 17:32:12.2	56.3	60.4	1.2	17	5.0		
ROTZ	e P	Z 17:32:12.6	56.3	60.3	1.2	13	4.9		
GRFO	e P	Z 17:32:17.0	56.9	59.7	1.1	29	5.2		
IBBN	e P	Z 17:32:19.9	57.5	59.2	1.2	24	5.1		
STU	e P	Z 17:32:27.9	58.5	58.1					
BFO	e P	Z 17:32:32.8	59.3	57.4	1.4	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/14	18:59:19.2	6.900S	155.800E	80.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 19:18:12.1	125.4	43.6					
BRG	e PKPdf	Z 19:18:13.0	125.9	49.2					
CLL	e PKPdf	Z 19:18:13.1	126.0	47.9					
CLZ	e PKPdf	Z 19:18:15.0	126.8	44.7					
TANN	e PKPdf	Z 19:18:14.8	126.9	47.8					
MOX	e PKPdf	Z 19:18:15.3	127.1	46.8					
GEC2	e PKPdf	Z 19:18:16.0	127.3	50.1					
MANZ	e PKPdf	Z 19:18:15.8	127.3	47.7					
WET	e PKPdf	Z 19:18:16.2	127.5	49.0					
GRA1	e PKPdf	Z 19:18:17.3	127.9	46.9					
STU	e PKPdf	Z 19:18:20.5	129.5	45.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15	00:05:22.2	20.054S	170.279E	33.0N				SZGRF
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 00:24:50.5	144.0	39.9					
CLL	e PKPbc	Z 00:24:50.5	144.0	38.2					
CLZ	e PKPbc	Z 00:24:52.8	144.6	33.8					
TANN	e PKPbc	Z 00:24:53.8	144.9	38.1					
IBBN	e PKPbc	Z 00:24:53.9	145.0	29.5					
MOX	e PKPbc	Z 00:24:55.0	145.1	36.7					
MANZ	e PKPbc	Z 00:24:55.4	145.4	38.0					
UBBA	e PKPbc	Z 00:24:55.7	145.5	34.1					
ROTZ	e PKPbc	Z 00:24:56.5	145.6	38.3					
GEC2	e PKPbc	Z 00:24:55.9	145.6	41.4					
WET	e PKPbc	Z 00:24:56.3	145.8	39.9					
GRA1	e PKPbc	Z 00:24:58.1	146.0	36.9					
FUR	e PKPbc	Z 00:25:02.8	147.2	38.4					
BFO	e PKPbc	Z 00:25:07.0	148.2	33.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15	02:16:29.6	38.098N	21.550E	10.0G	4.1			SZGRF
Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 02:19:21.1	12.1	149.3					
FUR	e P	Z 02:19:24.8	12.5	139.7					
WET	e P	Z 02:19:25.6	12.7	147.3					
GRA1	e P	Z 02:19:45.2	13.7	143.6					
STU	e P	Z 02:19:43.1	13.9	135.5					
BFO	e P	Z 02:19:45.0	14.0	132.0					
MOX	e P	Z 02:19:51.9	14.4	146.9					
CLZ	e P	Z 02:20:14.6	15.8	146.0					
WLF	e P	Z 02:20:15.4	16.0	130.6	1.1	18	4.1		
BSEG	e P	Z 02:20:34.6	17.6	149.5	1.5	22	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15	03:19:34.4	35.240N	137.203E	33.0N	5.3	4.7		SZGRF
Eastern Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 03:31:39.2	79.8	41.6	1.1	34	5.2		

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BRG	e P	Z	03:31:43.0	80.5	43.8	1.0	13	4.9		
CLL	e P	Z	03:31:43.2	80.6	43.2	0.8	38	5.5		
CLZ	e P	Z	03:31:47.6	81.3	41.4	0.9	33	5.5		
TANN	e P	Z	03:31:48.2	81.5	42.7	1.1	12	4.9		
MOX	e P	Z	03:31:49.2	81.7	42.2	1.0	13	5.0		
MANZ	e P	Z	03:31:50.7	82.0	42.4	0.8	13	5.1		
IBBN	e P	Z	03:31:50.7	82.0	39.6	0.8	38	5.6		
ROTZ	e P	Z	03:31:51.8	82.1	42.5	0.9	16	5.1		
GEC2	e P	Z	03:31:51.1	82.1	43.4	0.8	12	5.0		
UBBA	e P	Z	03:31:52.2	82.2	41.0	1.1	12	5.1		
WET	e P	Z	03:31:52.3	82.2	42.9	1.0	12	5.1		
GRA1	e P	Z	03:31:54.4	82.6	41.8	1.7	95	5.8		
	e L	Z	04:13:11.1			18.0	268		4.7	
FUR	e P	Z	03:31:59.8	83.7	41.7	0.8	53	5.8		
STU	e P	Z	03:32:01.8	84.1	40.3	0.9	44	5.7		
WLF	e P	Z	03:32:05.1	84.7	38.2					
BFO	e P	Z	03:32:05.1	84.8	39.7	0.8	33	5.6		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/15 03:56:11.0 32.453N 49.835E 33.0N 4.8  
 Western Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:02:46.0	33.3	106.5	0.8	9	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/15 04:12:34.3 47.603N 153.667E 33.0N 5.8 5.1  
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 04:24:05.7	73.8	24.8	1.2	94	5.7		
CLL	e P	Z 04:24:14.5	75.5	26.2	1.2	105	5.8		
BRG	e P	Z 04:24:15.5	75.6	26.7	1.5	56	5.5		
CLZ	e P	Z 04:24:16.9	75.7	24.6	1.3	179	6.0		
IBBN	e P	Z 04:24:17.6	75.9	22.9	0.9	123	6.0		
TANN	e P	Z 04:24:20.8	76.5	25.8					
MOX	e P	Z 04:24:20.6	76.5	25.2	1.2	76	5.7		
UBBA	e P	Z 04:24:21.9	76.7	24.2					
MANZ	e P	Z 04:24:23.2	76.9	25.5					
ROTZ	e P	Z 04:24:24.3	77.1	25.5					
GRA1	e P	Z 04:24:26.7	77.4	24.9	1.0	109	5.9		
	e L	Z 05:02:22.9			19.7	942		5.1	
WET	e P	Z 04:24:26.6	77.5	25.9	1.3	103	5.8		
GEC2	e P	Z 04:24:26.3	77.5	26.4	1.6	62	5.5		
FUR	e P	Z 04:24:33.8	78.8	24.8	1.2	140	5.9		

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STU	e P	Z	04:24:33.8	78.8	23.5	1.1	88	5.7
BFO	e P	Z	04:24:36.9	79.5	23.0	1.2	96	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 07:00:31.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15	10:35:46.2	16.046S	174.808W	33.0N				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 10:55:14.9	143.7	4.2					
CLZ	e PKPbc	Z 10:55:16.0	144.0	8.5					
CLL	e PKPbc	Z 10:55:16.2	144.2	12.9					
BRG	e PKPbc	Z 10:55:17.5	144.5	14.6					
UBBA	e PKPbc	Z 10:55:18.5	145.0	8.1					
MOX	e PKPbc	Z 10:55:18.9	145.0	10.8					
TANN	e PKPbc	Z 10:55:19.0	145.1	12.3					
MANZ	e PKPbc	Z 10:55:21.1	145.6	11.8					
ROTZ	e PKPbc	Z 10:55:21.5	145.8	12.1					
GRA1	e PKPbc	Z 10:55:22.0	146.0	10.4					
WLF	e PKPbc	Z 10:55:24.1	146.4	1.7					
GEC2	e PKPbc	Z 10:55:23.6	146.5	14.9					
STU	e PKPbc	Z 10:55:25.4	147.1	7.1					
BFO	e PKPbc	Z 10:55:27.0	147.6	5.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15	13:59:29.0	38.504N	72.975E	33.0N	5.1	4.3		SZGRF
Tajikistan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 14:07:20.6	42.5	83.2	1.3	43	5.0		
GEC2	e P	Z 14:07:24.8	43.0	80.8	1.1	31	5.0		
CLL	e P	Z 14:07:24.4	43.1	83.0	1.4	36	4.9		
WET	e P	Z 14:07:28.5	43.4	80.6	1.0	29	5.0		
TANN	e P	Z 14:07:28.8	43.5	81.7	1.2	18	4.7		
ROTZ	e P	Z 14:07:31.4	43.8	80.8	1.6	37	4.8		
MANZ	e P	Z 14:07:31.3	43.8	81.0	1.5	25	4.7		
MOX	e P	Z 14:07:32.7	44.0	81.3	1.6	40	4.9		
BSEG	e P	Z 14:07:35.4	44.4	83.8	1.4	48	5.2		

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GRA1	e P	Z	14:07:36.9	44.4	80.1	0.9	44	5.4	
	e PP	Z	14:09:25.0						
	e L	Z	14:27:02.9			19.0	379		4.3
CLZ	e P	Z	14:07:37.3	44.6	81.7	1.4	26	5.0	
FUR	e P	Z	14:07:38.7	44.7	78.6	0.8	52	5.5	
UBBA	e P	Z	14:07:40.6	45.0	80.4				
STU	e P	Z	14:07:48.0	45.9	77.9	1.1	34	5.3	
IBBN	e P	Z	14:07:49.3	46.1	80.3				
BFO	e P	Z	14:07:52.8	46.5	77.0	1.0	22	5.3	
WLF	e P	Z	14:08:01.9	47.6	76.8	1.1	35	5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/15	22:20:29.3	39.909N	72.245E	33.0N	4.5	4.5		SZGRF

Kyrgyzstan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	22:28:10.8	41.2	82.0	1.1	12	4.5		
GEC2	e P	Z	22:28:15.2	41.7	79.5	1.2	19	4.7		
CLL	e P	Z	22:28:14.6	41.8	81.8	1.2	14	4.6		
WET	e P	Z	22:28:18.9	42.2	79.4	1.0	11	4.5		
TANN	e P	Z	22:28:19.0	42.2	80.5					
ROTZ	e P	Z	22:28:22.0	42.5	79.6	1.4	10	4.3		
MOX	e P	Z	22:28:22.6	42.7	80.2	1.2	8	4.3		
BSEG	e P	Z	22:28:24.9	43.0	82.8	1.2	14	4.6		
GRA1	e P	Z	22:28:27.0	43.1	78.9	1.1	21	4.8		
	e L	Z	22:48:14.7			19.4	581		4.5	
CLZ	e P	Z	22:28:27.3	43.3	80.6	1.1	7	4.3		
FUR	e P	Z	22:28:29.3	43.4	77.3	0.9	23	4.9		
BFO	e P	Z	22:28:43.5	45.3	75.8	1.1	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/16	00:55: 5.8	27.083N	140.819E	49.2	5.0			SZGRF

Bonin Islands, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	01:07:51.6	88.4	42.6	1.1	16	5.2		
BRG	e P	Z	01:07:54.7	89.1	45.4	0.8	4	4.6		
CLL	e P	Z	01:07:55.3	89.2	44.7	0.8	6	4.8		
CLZ	e P	Z	01:07:59.3	89.9	42.7	0.9	7	4.8		
TANN	e P	Z	01:08:00.0	90.1	44.3	1.1	4	4.5		
MOX	e P	Z	01:08:00.8	90.3	43.6	4.7	287	5.7		
GEC2	e P	Z	01:08:02.2	90.6	45.2	0.8	4	4.6		
ROTZ	e P	Z	01:08:02.9	90.6	44.1	1.1	8	4.8		
	e pP	Z	01:08:16.1							
IBBN	e P	Z	01:08:02.4	90.7	40.6	1.2	27	5.3		



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WET	e P	Z	01:08:03.6	90.8	44.6	1.1	4	4.7
GRA1	e P	Z	01:08:05.2	91.1	43.3	1.0	16	5.3
	e pP	Z	01:08:18.7					
FUR	e P	Z	01:08:10.1	92.2	43.4	0.9	19	5.3
STU	e P	Z	01:08:12.3	92.7	41.8	0.8	10	5.1
WLF	e P	Z	01:08:15.3	93.3	39.4	1.1	12	5.0
	e pP	Z	01:08:31.5					
BFO	e P	Z	01:08:15.1	93.4	41.1	1.1	13	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/16	01:24:8.0	63.300S	169.900E	10.0		5.9		NEIC

Balleney Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 01:44:07.1	162.2	147.7					
	e PKPab	Z 01:44:55.3							
	e L	Z 03:00:47.7			20.9	1825		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/16	07:38:58.7	41.277N	19.406E	10.0G		4.3		SZGRF

Albania

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:41:02.1	8.6	149.9					
WET	e P	Z 07:41:09.1	9.1	147.3					
ROTZ	e P	Z 07:41:18.9	9.9	146.7					
GRA1	e P	Z 07:41:24.8	10.2	142.7	0.9	12			
	e L	Z 07:46:01.0			18.8	3670		4.3	
BRG	e P	Z 07:41:25.3	10.3	156.4					
TANN	e P	Z 07:41:27.0	10.3	149.5	0.9	11			
STU	e P	Z 07:41:27.4	10.4	132.4					
BFO	e P	Z 07:41:29.0	10.5	127.9					
MOX	e P	Z 07:41:32.3	10.8	147.1					
CLL	e P	Z 07:41:34.4	11.0	153.8					
UBBA	e P	Z 07:41:43.1	11.5	142.1					
CLZ	e P	Z 07:41:53.3	12.2	146.2					
BSEG	e P	Z 07:42:16.3	14.0	150.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/16	09:04:59.4	28.419N	129.965E	35.3	5.4	5.1		SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e P	Z	09:17:19.2	82.6	50.4	1.5	42	5.4		
	e pP	Z	09:17:30.0							
BRG	e P	Z	09:17:19.2	82.8	52.8	1.3	15	5.1		
	e pP	Z	09:17:29.5							
CLL	e P	Z	09:17:20.5	83.0	52.2	1.1	21	5.3		
NRDL	e P	Z	09:17:24.1	83.6	50.1	1.5	42	5.5		
	e pP	Z	09:17:34.6							
TANN	e P	Z	09:17:25.1	83.8	51.7	1.4	21	5.2		
	e pP	Z	09:17:34.9							
CLZ	e P	Z	09:17:26.2	83.9	50.3	1.2	74	5.8		
MOX	e P	Z	09:17:26.4	84.1	51.1	1.3	19	5.2		
GEC2	e P	Z	09:17:26.1	84.1	52.5	1.4	25	5.2		
	e pP	Z	09:17:37.0							
ROTZ	e P	Z	09:17:28.0	84.3	51.5	1.4	43	5.5		
WET	e P	Z	09:17:28.3	84.4	51.9	1.3	19	5.2		
	e pP	Z	09:17:37.9							
UBBA	e P	Z	09:17:30.6	84.8	49.9	1.7	55	5.5		
IBBN	e P	Z	09:17:31.3	84.8	48.3	1.4	83	5.8		
GRA1	e P	Z	09:17:30.9	84.9	50.7	1.2	56	5.7		
	e L	Z	10:00:04.0			18.5	742			5.1
BFO	e pP	Z	09:17:52.4	87.2	48.6					
WLF	e P	Z	09:17:44.1	87.4	47.0	0.6	12	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/16 10:51:58.2 7.000S 155.800E 10.0  
 Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 11:11:05.0	128.0	46.9					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/16 13:20:38.4 58.000S 147.600E 10.0  
 West of Macquarie Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 13:40:32.8	153.5	125.0					
	e PP	Z 13:44:27.8							
	e SS	N 14:04:00.2							
	e L	Z 15:06:53.7			19.7	5150		6.3	
CLL	e PKPdf	Z 13:40:35.2	153.3	122.4					
	e PKPbc	Z 13:40:42.3							
	e PKPab	Z 13:40:54.9							
	e PP	Z 13:44:31.0							
	e PPP	Z 13:47:52.8							
	e SKKSac	E 13:51:19.1							

e PSKS	Z	13:54:44.3
e PPS	E	13:57:34.3
e SS	E	14:04:01.7
e SSS	N	14:09:55.0
e LR	Z	14:34:43.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/16	15:50: 2.7	23.370S	174.740W	33.0G				SZGRF

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 16:09:51.0	149.2	9.1					
NRDL	e PKPbc	Z 16:09:54.9	150.6	9.1					
IBBN	e PKPbc	Z 16:09:56.0	151.0	4.7					
CLZ	e PKPbc	Z 16:09:56.7	151.3	9.8					
CLL	e PKPbc	Z 16:09:56.9	151.4	15.0					
BRG	e PKPbc	Z 16:09:58.0	151.7	17.0					
MOX	e PKPbc	Z 16:09:59.1	152.3	12.6					
UBBA	e PKPbc	Z 16:10:00.0	152.3	9.4					
TANN	e PKPbc	Z 16:09:59.6	152.4	14.4					
ROTZ	e PKPbc	Z 16:10:00.5	153.0	14.2					
GRA1	e PKPbc	Z 16:10:00.9	153.3	12.2					
WET	e PKPbc	Z 16:10:01.4	153.5	15.8					
GEC2	e PKPbc	Z 16:10:01.5	153.7	17.7					
WLF	e PKPbc	Z 16:10:02.0	153.7	1.8					
STU	e PKPbc	Z 16:10:02.5	154.4	8.4					
BFO	e PKPbc	Z 16:10:04.7	154.9	6.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:20:32.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/17	03:16: 5.9	32.220S	179.620W	447.9				SZGRF

South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 03:35:10.4	157.2	22.1					
	e PKPab	Z 03:35:42.1							
	e pPKPab	Z 03:37:24.3							
NRDL	e PKPab	Z 03:35:47.6	158.5	23.0					

CLL	e	PKPdf	Z	03:35:11.9	158.8	30.7
	e	PKPab	Z	03:35:49.0		
	e	pPKPab	Z	03:37:30.8		
BRG	e	PKPdf	Z	03:35:12.2	158.8	33.3
	e	PKPab	Z	03:35:49.4		
	e	pPKPab	Z	03:37:31.5		
CLZ	e	PKPdf	Z	03:35:12.9	159.1	24.3
	e	PKPab	Z	03:35:50.2		
	e	pPKPab	Z	03:37:32.5		
IBBN	e	PKPab	Z	03:35:51.1	159.2	17.8
TANN	e	PKPdf	Z	03:35:13.2	159.7	30.7
	e	PKPab	Z	03:35:53.5		
MOX	e	PKPdf	Z	03:35:13.1	159.8	28.5
	e	PKPab	Z	03:35:53.7		
	e	pPKPab	Z	03:37:36.8		
UBBA	e	PKPab	Z	03:35:54.6	160.1	24.5
	e	pPKPab	Z	03:37:37.9		
MANZ	e	PKPdf	Z	03:35:13.8	160.2	30.5
	e	PKPab	Z	03:35:55.8		
	e	pPKPab	Z	03:37:39.3		
ROTZ	e	PKPab	Z	03:35:56.5	160.4	31.1
	e	pPKPab	Z	03:37:39.4		
	e	PP	Z	03:39:33.0		
GEC2	e	PKPdf	Z	03:35:13.6	160.6	35.9
	e	PKPab	Z	03:35:56.9		
WET	e	PKPdf	Z	03:35:13.5	160.7	33.6
	e	PKPab	Z	03:35:57.5		
	e	pPKPab	Z	03:37:39.0		
GRA1	e	PKPdf	Z	03:35:14.3	160.8	28.9
	e	PKPab	Z	03:35:58.4		
	e	pPKPab	Z	03:37:41.1		
WLF	e	PKPdf	Z	03:35:15.4	162.0	16.0
	e	PKPab	Z	03:36:03.4		
FUR	e	PKPab	Z	03:36:04.0	162.1	31.3
STU	e	PKPdf	Z	03:35:16.2	162.2	25.0
	e	PKPab	Z	03:36:04.3		
BFO	e	PKPdf	Z	03:35:16.1	162.8	23.3
	e	PKPab	Z	03:36:06.7		
	e	pPKPab	Z	03:37:48.7		

Date 2007/04/17  
 Origin Time 06:20:12.3  
 Lat 4.500S  
 Long 152.200E  
 Depth 141.0  
 mb  
 Ms  
 ML  
 Source NEIC  
 New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPdf	Z 06:38:50.1	121.7	46.3					
BRG	e	PKPdf	Z 06:38:50.7	122.0	51.5					

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CLL	e	PKPdf	Z	06:38:51.0	122.2	50.3
NRDL	e	PKPdf	Z	06:38:52.2	122.8	46.7
TANN	e	PKPdf	Z	06:38:52.7	123.0	50.2
CLZ	e	PKPdf	Z	06:38:53.0	123.1	47.3
MOX	e	PKPdf	Z	06:38:52.7	123.3	49.2
GEC2	e	PKPdf	Z	06:38:53.3	123.4	52.3
MANZ	e	PKPdf	Z	06:38:53.7	123.5	50.1
WET	e	PKPdf	Z	06:38:54.2	123.6	51.3
GRA1	e	PKPdf	Z	06:38:54.5	124.1	49.3
STU	e	PKPdf	Z	06:38:57.8	125.7	47.6
WLF	e	PKPdf	Z	06:39:00.3	126.5	43.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/17	08:16:27.0	23.800S	176.100W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	PKPbc	Z 08:36:18.0	151.6	17.7					
BRG	e	PKPbc	Z 08:36:18.3	151.8	19.8					
FBE	e	PKPbc	Z 08:36:19.5	151.9	18.6					
MOX	e	PKPbc	Z 08:36:20.2	152.5	15.4					
WERD	e	PKPbc	Z 08:36:20.4	152.6	16.9					
TANN	e	PKPbc	Z 08:36:20.1	152.6	17.2					
MANZ	e	PKPbc	Z 08:36:21.6	153.0	16.7					
GEC2	e	PKPbc	Z 08:36:23.1	153.8	20.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/18	00:14:43.5	30.029N	50.303E	33.0G	4.7			SZGRF
Northern and central Iran								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z 00:21:19.4	33.5	110.6	1.5	7	4.4		
WET	e	P	Z 00:21:24.2	34.1	110.1	1.2	7	4.5		
ROTZ	e	P	Z 00:21:30.3	34.7	110.2	1.5	15	4.7		
FUR	e	P	Z 00:21:31.2	34.8	107.1	1.1	36	5.2		
GRA1	e	P	Z 00:21:35.5	35.3	109.1	1.4	25	5.0		
MOX	e	P	Z 00:21:34.7	35.4	110.8	1.6	8	4.4		
UBBA	e	P	Z 00:21:44.8	36.4	109.3	1.8	14	4.5		
CLZ	e	P	Z 00:21:46.1	36.5	111.0	1.1	21	4.8		
NRDL	e	P	Z 00:21:49.6	36.9	111.5	1.2	17	4.7		
BSEG	e	P	Z 00:21:52.4	37.3	113.5	1.5	18	4.6		
WLF	e	P	Z 00:22:01.5	38.4	103.9	1.0	12	4.6		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/18	01:08:14.1	23.800S	66.500W	208.2				NEIC

Jujuy Province, Argentina

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 01:21:36.6	100.5	245.4					
	e pPdiff	Z 01:22:28.1							
	e PP	Z 01:25:40.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/18	15:07:35.4	42.712N	141.167E	122.2	5.8			SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 15:19:01.1	74.6	35.2	0.8	82	5.8		
BRG	e P	Z 15:19:07.4	75.8	37.1					
CLL	e P	Z 15:19:07.3	75.8	36.6	0.8	126	6.1		
NRDL	e P	Z 15:19:07.9	75.9	34.8	0.8	58	5.7		
CLZ	e P	Z 15:19:10.7	76.3	34.9	0.9	133	6.1		
TANN	e P	Z 15:19:12.1	76.7	36.1					
IBBN	e P	Z 15:19:13.3	76.8	33.2	0.8	104	6.0		
MOX	e P	Z 15:19:13.2	76.8	35.6	1.1	68	5.7		
MANZ	e P	Z 15:19:15.7	77.2	35.8	1.1	40	5.5		
UBBA	e P	Z 15:19:15.4	77.3	34.5	1.4	56	5.5		
ROTZ	e P	Z 15:19:16.0	77.3	35.8	1.2	66	5.7		
GEC2	e P	Z 15:19:16.8	77.5	36.7	1.0	47	5.6		
WET	e P	Z 15:19:17.6	77.6	36.2	1.1	103	5.9		
GRA1	e P	Z 15:19:18.9	77.8	35.2	0.9	181	6.2		
	e pP	Z 15:19:49.3							
	e PP	Z 15:22:07.7							
	e S	R 15:29:01.6							
FUR	e P	Z 15:19:26.0	79.0	35.1	1.1	214	6.1		
STU	e P	Z 15:19:27.0	79.3	33.8	1.1	139	5.8		
BFO	e P	Z 15:19:30.0	79.9	33.2	1.3	91	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/19	03:20:19.8	21.361S	170.213E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 03:39:53.0	145.1	41.0					
CLL	e PKPbc	Z 03:39:52.7	145.2	39.2					
NRDL	e PKPbc	Z 03:39:53.7	145.3	33.8					
CLZ	e PKPbc	Z 03:39:55.2	145.7	34.8					
ROTZ	e PKPbc	Z 03:39:57.7	146.7	39.4					

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GEC2	e	PKPbc	Z	03:39:58.1	146.8	42.6
WET	e	PKPbc	Z	03:39:58.3	146.9	41.1
GRA1	e	PKPbc	Z	03:39:59.1	147.2	38.0
WLF	e	PKPbc	Z	03:40:04.8	149.0	29.8
BFO	e	PKPbc	Z	03:40:04.9	149.4	34.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/19	03:25:49.6	16.387S	174.009W	160.8				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	03:45:14.0	142.3	6.8			
NRDL	e	PKPbc	Z	03:45:17.5	143.7	6.7			
IBBN	e	PKPbc	Z	03:45:18.9	144.1	2.9			
CLZ	e	PKPbc	Z	03:45:20.1	144.4	7.2			
CLL	e	PKPbc	Z	03:45:20.5	144.6	11.7	1.0	105	
	e	pPKPbc	Z	03:46:02.3					
	e	PP	Z	03:48:42.0					
	e	(PPS)	E	04:01:27.8					
	e	(SS)	E	04:07:22.2					
	e	SSS	E	04:12:51.7					
BRG	e	PKPbc	Z	03:45:21.5	144.9	13.4			
UBBA	e	PKPbc	Z	03:45:23.3	145.4	6.8			
MOX	e	PKPbc	Z	03:45:23.4	145.4	9.5			
	e	pPKPbc	Z	03:46:05.2					
TANN	e	PKPbc	Z	03:45:23.9	145.6	11.0			
ROTZ	e	PKPbc	Z	03:45:25.9	146.2	10.8			
GRA1	e	PKPbc	Z	03:45:26.7	146.4	9.1			
	e	pPKPbc	Z	03:46:08.4					
WLF	e	PKPbc	Z	03:45:27.9	146.7	0.3			
WET	e	PKPbc	Z	03:45:27.4	146.8	12.1			
GEC2	e	PKPbc	Z	03:45:27.6	146.9	13.6			
STU	e	PKPbc	Z	03:45:29.3	147.5	5.7			
FUR	e	PKPbc	Z	03:45:30.3	147.9	9.6			
BFO	e	PKPbc	Z	03:45:30.5	148.0	4.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/20	00:26:41.9	25.540N	125.440E	33.0N	5.6	6.9		SZGRF

Southwestern Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z	00:39:04.5	82.8	57.8	1.2	42	5.5
BSEG	e	P	Z	00:39:04.7	82.9	55.4	2.2	152	5.8
CLL	e	P	Z	00:39:04.6	83.0	57.2	1.1	60	5.7
TANN	e	P	Z	00:39:09.6	83.8	56.7	1.3	19	5.2

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NRDL	e P	Z	00:39:09.9	83.9	55.1	2.0	112	5.7		
GEC2	e P	Z	00:39:09.9	84.0	57.4	1.0	28	5.4		
CLZ	e P	Z	00:39:11.0	84.1	55.3	1.7	105	5.8		
MOX	e P	Z	00:39:11.0	84.1	56.1	1.8	61	5.5		
WET	e P	Z	00:39:12.1	84.3	56.9	1.9	49	5.4		
ROTZ	e P	Z	00:39:12.1	84.3	56.4	1.5	42	5.5		
GRA1	e P	Z	00:39:14.9	84.9	55.7	1.3	68	5.7		
	e PP	Z	00:42:32.9							
	e S	T	00:49:44.9							
	e SS	R	00:55:16.2							
	e L	Z	01:22:03.1			18.4	44490		6.9	
UBBA	e P	Z	00:39:14.7	84.9	54.9	1.8	81	5.7		
IBBN	e P	Z	00:39:15.9	85.1	53.3	1.0	76	5.9		
FUR	e P	Z	00:39:19.0	85.7	55.6	1.1	101	5.9		
STU	e P	Z	00:39:22.3	86.5	54.2	1.1	60	5.6		
BFO	e P	Z	00:39:25.7	87.2	53.5	1.4	50	5.4		
WLF	e P	Z	00:39:28.1	87.5	52.0	1.1	63	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/20	00:31:1.2	25.160N	124.940E	33.0N	5.5			SZGRF

Northeast of Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:43:23.3	82.8	58.4	1.2	24	5.3		
CLL	e P	Z 00:43:25.7	83.1	57.8	1.4	37	5.4		
GEC2	e P	Z 00:43:29.7	84.0	58.0	1.2	21	5.2		
CLZ	e P	Z 00:43:30.9	84.2	55.8	1.3	55	5.6		
MOX	e P	Z 00:43:30.9	84.2	56.7	1.6	33	5.3		
WET	e P	Z 00:43:31.6	84.3	57.5	1.5	23	5.2		
ROTZ	e P	Z 00:43:32.0	84.3	57.0	1.6	40	5.4		
GRA1	e P	Z 00:43:34.8	84.9	56.3	1.4	62	5.7		
UBBA	e P	Z 00:43:34.4	84.9	55.5	1.5	51	5.5		
IBBN	e P	Z 00:43:35.9	85.2	53.9	1.4	63	5.7		
FUR	e P	Z 00:43:39.1	85.7	56.2	1.4	140	5.9		
STU	e P	Z 00:43:42.4	86.5	54.8	1.5	64	5.5		
BFO	e P	Z 00:43:45.7	87.2	54.1	1.4	50	5.5		
WLF	e P	Z 00:43:48.0	87.6	52.6	1.4	56	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/20	01:45:51.0	25.671N	125.343E	33.0N	6.1	6.9		SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:58:19.8	82.6	57.8	1.0	52	5.7		
	e S	R 02:08:44.2							



BSEG	e P	Z	01:58:20.9	82.8	55.4	1.4	116	5.9		
	e S	R	02:08:45.5							
CLL	e P	Z	01:58:20.8	82.9	57.2	1.0	74	5.9		
	e S	R	02:08:47.3							
TANN	e P	Z	01:58:25.1	83.7	56.7	2.5	251	6.0		
	e S	R	02:08:53.9							
NRDL	e P	Z	01:58:25.7	83.7	55.1	1.6	199	6.0		
	e S	R	02:08:54.5							
GEC2	e P	Z	01:58:26.1	83.8	57.4	2.3	244	5.9		
	e S	R	02:08:56.1							
CLZ	e P	Z	01:58:26.6	83.9	55.2	1.6	350	6.2		
	e S	R	02:08:56.7							
MOX	e P	Z	01:58:26.5	84.0	56.1					
	e S	R	02:08:57.7							
WET	e P	Z	01:58:27.7	84.1	56.9	2.1	207	5.9		
	e S	R	02:09:00.2							
ROTZ	e P	Z	01:58:27.8	84.1	56.4	2.2	370	6.1		
	e S	R	02:09:00.5							
GRA1	e P	Z	01:58:30.2	84.7	55.7	1.5	335	6.3		
	e		01:58:34.8							
	e		01:58:50.7							
	e PP	Z	02:01:49.5							
	e S	R	02:09:05.5							
	e SS	R	02:14:34.8							
	e PKKPbc	Z	02:16:43.9							
	e L	Z	02:41:18.3			18.6	49682		6.9	
UBBA	e P	Z	01:58:30.0	84.7	54.9	1.7	246	6.1		
	e S	R	02:09:04.5							
IBBN	e P	Z	01:58:31.1	85.0	53.3	1.2	220	6.2		
	e S	R	02:09:05.8							
FUR	e P	Z	01:58:34.4	85.6	55.6	1.3	433	6.4		
	e S	R	02:09:11.1							
STU	e P	Z	01:58:38.5	86.3	54.2	1.0	138	6.2		
	e S	R	02:09:18.0							
BFO	e P	Z	01:58:41.0	87.1	53.5	2.1	350	6.2		
	e S	R	02:09:24.9							
WLF	e P	Z	01:58:43.5	87.4	52.0	1.1	136	6.1		
	e S	R	02:09:29.6							

Date 2007/04/20 Origin Time 02:23:31.3 Lat 24.200N Long 125.030E Depth 33.0N mb 5.8 Ms 6.4 ML Source SZGRF  
Southwestern Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:35:57.3	83.6	58.9	1.1	22	5.3		
BSEG	e P	Z	02:35:59.0	83.9	56.4	1.2	75	5.8		
CLL	e P	Z	02:35:59.1	83.9	58.2	1.2	39	5.5		

	e PP	Z	02:39:13.1								
TANN	e P	Z	02:36:03.2	84.7	57.8	1.1	18	5.2			
NRDL	e P	Z	02:36:04.0	84.8	56.2	1.9	190	6.0			
GEC2	e P	Z	02:36:03.6	84.8	58.6	1.4	37	5.4			
CLZ	e P	Z	02:36:05.1	85.0	56.3	1.3	125	6.0			
MOX	e P	Z	02:36:04.8	85.0	57.2	1.8	95	5.7			
WET	e P	Z	02:36:05.6	85.1	58.0	1.7	56	5.5			
ROTZ	e P	Z	02:36:06.0	85.2	57.5	1.1	48	5.6			
GRA1	e P	Z	02:36:08.9	85.7	56.8	1.8	300	6.2			
	e		02:36:12.5								
	e L	Z	03:19:03.9			18.1	15201			6.4	
UBBA	e P	Z	02:36:08.7	85.8	56.0	1.6	125	5.9			
IBBN	e P	Z	02:36:10.2	86.1	54.4	1.1	97	5.9			
FUR	e P	Z	02:36:12.8	86.5	56.8	2.0	526	6.3			
	e PP	Z	02:39:35.9								
STU	e P	Z	02:36:16.2	87.3	55.3	1.1	61	5.6			
BFO	e P	Z	02:36:19.6	88.1	54.6	1.8	142	5.8			
	e PP	Z	02:39:46.4								
WLF	e P	Z	02:36:22.0	88.4	53.0	1.6	147	6.1			

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/20 03:01:2.7 25.475N 125.027E 33.0N 5.0  
 Southwestern Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:13:33.7	84.7	56.0	1.6	14	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/20 05:23:14.6 25.280N 125.078E 33.0N 5.1 5.8  
 Southwestern Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:35:36.2	82.8	58.2	1.4	13	5.0		
CLL	e P	Z 05:35:37.2	83.1	57.6	1.0	12	5.1		
GEC2	e P	Z 05:35:42.1	84.0	57.9	1.0	6	4.8		
GRA1	e P	Z 05:35:46.5	84.9	56.1					
	e S	N 05:46:18.0							
	e L	Z 06:18:32.8			18.6	3293		5.8	
IBBN	e P	Z 05:35:48.0	85.2	53.7	1.0	24	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/20 15:14:13.2 33.755S 178.901W 50.0G  
 South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z	15:34:41.1	158.8	21.6					
NRDL	e PKPab	Z	15:34:47.2	160.2	22.6					
CLL	e PKPab	Z	15:34:48.1	160.4	30.8					
BRG	e PKPab	Z	15:34:48.6	160.5	33.6					
CLZ	e PKPab	Z	15:34:49.8	160.7	23.9					
IBBN	e PKPab	Z	15:34:50.1	160.8	17.1					
TANN	e PKPab	Z	15:34:52.8	161.4	30.9					
MOX	e PKPab	Z	15:34:52.9	161.4	28.5					
UBBA	e PKPab	Z	15:34:54.1	161.7	24.2					
MANZ	e PKPab	Z	15:34:54.9	161.9	30.7					
ROTZ	e PKPab	Z	15:34:55.9	162.0	31.3					
GEC2	e PKPdf	Z	15:34:08.3	162.2	36.5					
	e PKPab	Z	15:34:56.1							
WET	e PKPdf	Z	15:34:08.3	162.3	33.9					
	e PKPab	Z	15:34:57.0							
GRA1	e PKPab	Z	15:34:57.7	162.4	28.9					
WLF	e PKPab	Z	15:35:02.9	163.7	15.1					
FUR	e PKPab	Z	15:35:03.1	163.7	31.6					
STU	e PKPab	Z	15:35:03.4	163.8	24.8					
BFO	e PKPab	Z	15:35:06.1	164.5	23.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/20	17:20:10.7	51.868N	176.880W	209.2	4.9			SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:31:23.7	74.0	4.6	1.2	26	5.1		
	e pP	Z	17:32:13.8			1.1	46			
NRDL	e P	Z	17:31:31.6	75.5	4.5	1.1	10	4.9		
	e pP	Z	17:32:21.8			1.2	29			
IBBN	e P	Z	17:31:33.6	75.8	3.0	1.2	40	5.4		
	e pP	Z	17:32:23.7			1.1	51			
CLZ	e P	Z	17:31:35.7	76.1	4.6	1.1	19	5.2		
	e pP	Z	17:32:25.9			1.0	42			
CLL	e P	Z	17:31:37.0	76.5	6.3	1.1	12	4.9		
	e pP	Z	17:32:26.8			1.2	15			
BRG	e P	Z	17:31:39.3	76.9	6.8	1.1	12	4.9		
	e pP	Z	17:32:29.0			1.5	36			
UBBA	e P	Z	17:31:41.2	77.1	4.4	2.0	40	5.2		
	e pP	Z	17:32:31.0			1.4	19			
MOX	e P	Z	17:31:41.5	77.2	5.4	1.1	11	4.9		
	e pP	Z	17:32:31.5			1.2	20			
TANN	e P	Z	17:31:42.7	77.4	5.9	1.9	25	5.0		
	e pP	Z	17:32:32.8			1.6	22			
MANZ	e P	Z	17:31:44.9	77.9	5.7	0.9	4	4.5		

	e pP	Z	17:32:35.2			1.2	11	
ROTZ	e P	Z	17:31:46.5	78.1	5.7	1.2	8	4.7
	e pP	Z	17:32:36.7			1.5	22	
GRA1	e P	Z	17:31:47.0	78.2	5.1	1.1	18	5.0
	e pP	Z	17:32:37.2			1.4	38	
WLF	e pP	Z	17:32:38.5	78.4	1.9	1.1	20	
WET	e P	Z	17:31:49.6	78.6	6.1	1.4	9	4.6
	e pP	Z	17:32:39.8			1.3	9	
GEC2	e P	Z	17:31:50.5	78.9	6.6	1.3	9	4.7
	e pP	Z	17:32:40.8			1.5	15	
STU	e P	Z	17:31:51.9	79.2	3.8	0.9	12	4.8
	e pP	Z	17:32:42.9			1.2	23	
BFO	e P	Z	17:31:55.0	79.7	3.3	1.8	24	4.8
	e pP	Z	17:32:45.1			1.7	24	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/20	19:38: 3.1	28.430N	128.290E	45.9	6.4	5.7		SZGRF
Ryukyu Islands, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	19:50:09.7	80.1	54.0	1.0	430	6.3		
RUE	e P	Z	19:50:15.1	81.1	54.1	1.2	445	6.4		
	e pP	Z	19:50:28.5							
BSEG	e P	Z	19:50:19.1	81.8	51.7	1.0	505	6.6		
BRG	e P	Z	19:50:19.2	81.9	54.0	1.1	140	6.0		
CLL	e P	Z	19:50:20.1	82.1	53.4	1.0	323	6.4		
	e pP	Z	19:50:33.6							
FBE	e P	Z	19:50:20.8	82.2	53.6	1.2	426	6.4		
HLG	e P	Z	19:50:23.6	82.8	49.9	1.9	1129	6.8		
NRDL	e P	Z	19:50:24.2	82.8	51.4	1.3	365	6.5		
	e pP	Z	19:50:37.5							
TANN	e P	Z	19:50:24.6	82.9	52.9	1.3	228	6.2		
	e pP	Z	19:50:37.9							
WERD	e P	Z	19:50:24.8	83.0	52.8	1.3	258	6.3		
GUNZ	e P	Z	19:50:25.2	83.0	52.8	1.1	309	6.5		
	e pP	Z	19:50:38.6							
WERN	e P	Z	19:50:25.3	83.1	52.8	1.1	356	6.5		
CLZ	e P	Z	19:50:25.9	83.1	51.5	1.1	829	6.9		
	e pP	Z	19:50:39.1							
MOX	e P	Z	19:50:26.0	83.2	52.3	1.7	357	6.3		
	e pP	Z	19:50:39.5							
GEC2	e P	Z	19:50:25.9	83.2	53.6	1.3	191	6.2		
MANZ	e P	Z	19:50:26.9	83.4	52.6	1.4	296	6.3		
ROTZ	e P	Z	19:50:27.5	83.5	52.7	1.2	398	6.5		
	e pP	Z	19:50:40.9							
WET	e P	Z	19:50:27.5	83.5	53.1	1.9	382	6.3		
UBBA	e P	Z	19:50:29.5	83.9	51.1	1.6	453	6.4		

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GRA1	e P	Z	19:50:30.4	84.0	51.9	1.3	634	6.7
	e pP	Z	19:50:43.5					
	e PP	Z	19:53:49.0					
	e S	R	20:00:52.8					
	e L	Z	20:32:58.8			19.6	2806	5.7
GRFO	e P	Z	19:50:30.5	84.0	51.9	1.3	594	6.7
IBBN	e P	Z	19:50:30.1	84.1	49.6	1.0	488	6.7
FUR	e P	Z	19:50:35.0	84.9	51.9	1.1	578	6.7
STU	e P	Z	19:50:37.9	85.6	50.4	1.6	289	6.2
BFO	e P	Z	19:50:41.4	86.4	49.8	1.4	143	5.9
WLF	e P	Z	19:50:42.1	86.6	48.2	0.9	70	5.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	00:32:34.5	22.526N	122.415E	33.0N	5.1	5.2		SZGRF
Taiwan region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:44:59.3	83.5	61.8	1.7	29	4.9		
BSEG	e P	Z	00:45:02.9	84.0	59.4	1.4	43	5.3		
TANN	e P	Z	00:45:04.5	84.6	60.7	1.8	39	5.1		
NRDL	e P	Z	00:45:07.8	84.8	59.1	1.2	20	5.0		
MOX	e P	Z	00:45:06.1	84.9	60.1	1.7	34	5.1		
WET	e P	Z	00:45:06.6	85.0	60.9	1.9	27	5.0		
MANZ	e P	Z	00:45:06.9	85.0	60.4	1.6	26	5.0		
CLZ	e P	Z	00:45:07.2	85.0	59.3	1.4	42	5.4		
ROTZ	e P	Z	00:45:06.9	85.0	60.5	1.7	29	5.0		
GRA1	e P	Z	00:45:10.1	85.6	59.7	2.0	70	5.4		
	e PP	Z	00:48:37.9							
	e S	T	00:55:46.5							
	e L	Z	01:26:28.1			20.0	1082		5.2	
GRC4	e PP	Z	00:48:30.0	85.8	59.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	01:04:37.3	18.741S	170.572W	33.0N				SZGRF
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	01:24:14.2	146.2	1.2					
IBBN	e PKPbc	Z	01:24:14.9	146.4	357.1					
CLZ	e PKPbc	Z	01:24:16.3	146.9	1.6					
CLL	e PKPbc	Z	01:24:16.7	147.3	6.3					
BRG	e PKPbc	Z	01:24:18.0	147.7	8.0					
FBE	e PKPbc	Z	01:24:18.5	147.7	7.0					
MOX	e PKPbc	Z	01:24:18.8	148.0	3.9					
WERD	e PKPbc	Z	01:24:19.5	148.2	5.2					

TANN	e	PKPbc	Z	01:24:19.5	148.2	5.5
GUNZ	e	PKPbc	Z	01:24:19.7	148.3	5.2
WERN	e	PKPbc	Z	01:24:20.2	148.4	5.3
MANZ	e	PKPbc	Z	01:24:21.2	148.7	4.9
ROTZ	e	PKPbc	Z	01:24:21.2	148.9	5.1
GRA1	e	PKPbc	Z	01:24:21.7	149.0	3.3
WET	e	PKPbc	Z	01:24:22.8	149.5	6.4
GEC2	e	PKPbc	Z	01:24:23.5	149.7	8.0
BFO	e	PKPbc	Z	01:24:25.2	150.4	357.9
FUR	e	PKPbc	Z	01:24:26.0	150.5	3.6

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/21 07:12:48.2 3.607S 151.309E 410.0G  
 New Ireland, Papua New Guinea, region NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z 07:30:51.4	119.9	51.0					
	e PP	Z 07:32:22.6							
BSEG	e PKPdf	Z 07:30:52.7	120.5	46.8					
BRG	e PKPdf	Z 07:30:53.0	120.8	51.9					
CLL	e PKPdf	Z 07:30:53.6	121.0	50.8	1.2	92			
	e PP	Z 07:32:30.4							
	e pPKPdf	Z 07:32:36.3							
	e SKPdf	Z 07:33:51.2							
	e PKSdf	Z 07:34:35.1							
	e PPP	Z 07:35:05.4							
	e SKSac	E 07:37:12.9							
	e SKKSac	E 07:38:45.5							
	e PKKPbc	Z 07:40:56.2							
	e PKKPab	Z 07:40:58.6							
	e SKSP	Z 07:41:43.3							
	e SKKPdf	Z 07:44:26.9							
	e SS	Z 07:48:31.2							
	e SSS	E 07:53:03.7							
FBE	e PKPdf	Z 07:30:53.7	121.1	51.3					
HLG	e PKPdf	Z 07:30:54.3	121.3	44.1					
NRDL	e PKPdf	Z 07:30:54.9	121.6	47.2					
TANN	e PKPdf	Z 07:30:55.2	121.8	50.6					
	e PP	Z 07:32:34.9							
WERD	e PKPdf	Z 07:30:55.2	121.9	50.4					
	e PP	Z 07:32:34.9							
CLZ	e PKPdf	Z 07:30:55.6	121.9	47.8					
	e PP	Z 07:32:37.4							
GUNZ	e PKPdf	Z 07:30:55.6	121.9	50.5					
WERN	e PKPdf	Z 07:30:55.4	121.9	50.6					
MOX	e PKPdf	Z 07:30:55.5	122.1	49.6					
GEC2	e PKPdf	Z 07:30:55.6	122.2	52.6					

	e PP	Z	07:32:35.3		
MANZ	e PKPdf	Z	07:30:56.2	122.3	50.5
ROTZ	e PKPdf	Z	07:30:56.1	122.4	50.7
	e PP	Z	07:32:39.8		
WET	e PKPdf	Z	07:30:56.4	122.4	51.7
IBBN	e PKPdf	Z	07:30:56.9	122.7	44.8
UBBA	e PKPdf	Z	07:30:56.8	122.7	47.9
GRA1	e PKPdf	Z	07:30:57.0	122.9	49.7
FUR	e PKPdf	Z	07:30:59.0	123.9	50.5
STU	e PKPdf	Z	07:31:00.5	124.5	48.0
BFO	e PKPdf	Z	07:31:01.3	125.2	47.4
WLF	e PKPdf	Z	07:31:02.5	125.3	44.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	10:13:13.7	1.630N	98.790E	69.6	4.7			SZGRF
Northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:25:43.3	85.5	93.0	0.9	8	4.9		
	e pP	Z	10:26:02.9							
GEC2	e P	Z	10:25:43.5	85.5	92.6	1.4	15	5.0		
	e pP	Z	10:26:02.4							
FBE	e P	Z	10:25:45.2	85.9	92.5	1.2	10	4.9		
WET	e P	Z	10:25:46.4	86.1	92.0	1.0	7	4.7		
CLL	e P	Z	10:25:46.4	86.1	92.3	1.2	7	4.7		
TANN	e P	Z	10:25:48.2	86.4	91.8	0.7	2	4.5		
WERN	e P	Z	10:25:48.4	86.5	91.7	1.2	6	4.6		
GUNZ	e P	Z	10:25:48.3	86.5	91.7	1.1	6	4.7		
	e pP	Z	10:26:07.3							
WERD	e P	Z	10:25:48.2	86.5	91.7	1.3	6	4.6		
ROTZ	e P	Z	10:25:48.7	86.5	91.6	1.1	4	4.5		
MANZ	e P	Z	10:25:49.1	86.6	91.5	1.2	12	4.9		
MOX	e P	Z	10:25:50.9	86.9	91.2	1.3	6	4.5		
GRA1	e P	Z	10:25:51.7	87.2	90.8	1.2	12	4.9		
	e pP	Z	10:26:11.0							
CLZ	e P	Z	10:25:54.3	87.7	90.2	1.2	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	16:11:30.8	0.339N	30.847W	33.0N	4.2			SZGRF
Central Mid-Atlantic Ridge								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:21:41.4	61.0	230.0	1.5	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	17:08:42.1	22.399N	121.305E	33.0N	4.9			SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:21:15.2	85.1	60.6	1.3	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	17:20:31.9	13.962S	166.855E	41.0G				NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 17:39:51.1	137.1	40.5					
CLL	e PKPdf	Z 17:39:51.2	137.1	38.9					
NRDL	e PKPdf	Z 17:39:51.0	137.2	34.4					
CLZ	e PKPdf	Z 17:39:52.0	137.7	35.1					
TANN	e PKPdf	Z 17:39:52.6	138.0	38.9					
IBBN	e PKPdf	Z 17:39:52.7	138.2	31.3					
MOX	e PKPdf	Z 17:39:52.6	138.2	37.6					
MANZ	e PKPdf	Z 17:39:53.4	138.5	38.7					
ROTZ	e PKPdf	Z 17:39:53.7	138.6	39.0					
UBBA	e PKPdf	Z 17:39:53.6	138.7	35.3					
GEC2	e PKPdf	Z 17:39:53.9	138.7	41.6					
WET	e PKPdf	Z 17:39:54.1	138.8	40.3					
GRA1	e PKPdf	Z 17:39:54.8	139.1	37.7					
	e PP	Z 17:42:48.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/21	17:53:47.1	45.300S	72.500W	38.0		6.5		NEIC

Southern Chile

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPdf	Z 18:12:27.3	117.2	231.3					
STU	e PKPdf	Z 18:12:29.7	117.9	231.9					
GRFO	e PKPdf	Z 18:12:31.7	119.5	233.4					
GRA1	e PKPdf	Z 18:12:32.8	119.5	233.4					
	e PKKPdf	R 18:23:15.8							
	e SP	Z 18:23:57.3							
	e SS	R 18:30:47.2							
	e L	Z 19:01:42.9			21.8	12501		6.5	
UBBA	e PKPdf	Z 18:12:32.9	119.5	233.3					
WET	e PKPdf	Z 18:12:32.7	120.0	234.1					
ROTZ	e PKPdf	Z 18:12:32.9	120.0	234.0					
MANZ	e PKPdf	Z 18:12:33.0	120.1	234.1					



MOX	e	PKPdf	Z	18:12:33.4	120.3	234.1
GEC2	e	PKPdf	Z	18:12:33.1	120.3	234.4
CLZ	e	PKPdf	Z	18:12:34.0	120.3	234.0
WERN	e	PKPdf	Z	18:12:33.9	120.4	234.4
GUNZ	e	PKPdf	Z	18:12:34.0	120.5	234.4
WERD	e	PKPdf	Z	18:12:33.8	120.5	234.4
TANN	e	PKPdf	Z	18:12:34.2	120.6	234.5
NRDL	e	PKPdf	Z	18:12:34.2	120.6	234.1
FBE	e	PKPdf	Z	18:12:35.0	121.3	235.2
CLL	e	PKPdf	Z	18:12:35.4	121.4	235.2
BSEG	e	PKPdf	Z	18:12:35.9	121.5	235.0
BRG	e	PKPdf	Z	18:12:36.1	121.6	235.5
RUE	e	PKPdf	Z	18:12:37.3	122.4	236.2

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/21 21:24:40.7 52.261N 169.384W 33.0N 4.3  
 Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:36:36.5	78.0	0.4	1.2	3	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/21 21:27:45.4 23.470S 171.500E 33.0N 4.5  
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:47:22.5	146.4	32.3					
BRG	e PKPbc	Z 21:47:26.0	147.6	40.8					
CLL	e PKPbc	Z 21:47:25.3	147.6	38.9					
NRDL	e PKPbc	Z 21:47:26.3	147.7	33.2					
CLZ	e PKPbc	Z 21:47:27.2	148.1	34.2					
TANN	e PKPbc	Z 21:47:28.5	148.5	38.9					
IBBN	e PKPbc	Z 21:47:29.1	148.6	29.5					
MOX	e PKPbc	Z 21:47:28.8	148.7	37.3					
MANZ	e PKPbc	Z 21:47:30.0	149.0	38.8					
ROTZ	e PKPbc	Z 21:47:29.8	149.1	39.2					
UBBA	e PKPbc	Z 21:47:30.3	149.1	34.6					
GEC2	e PKPbc	Z 21:47:30.4	149.2	42.6					
WET	e PKPbc	Z 21:47:30.7	149.3	40.9					
GRA1	e PKPbc	Z 21:47:31.7	149.6	37.7					
	e L	Z 22:43:48.4			20.7	75		4.5	
FUR	e PKPbc	Z 21:47:34.5	150.7	39.4					
STU	e PKPbc	Z 21:47:35.1	151.1	35.2					
WLF	e PKPbc	Z 21:47:36.0	151.4	29.0					
BFO	e PKPbc	Z 21:47:36.3	151.8	34.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2007/04/22												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e PKPbc	Z 01:06:05.3								
2007/04/22	06:19:38.6	38.486N	78.339E	33.0N	4.3			SZGRF				
		Southern Xinjiang, China										
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e P	Z 06:28:13.3	47.8	76.7	1.0	2	4.3			
2007/04/22												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e PKPbc	Z 10:30:03.8								
2007/04/22	10:28:54.4	25.384N	125.205E	33.0N	5.0	4.9		SZGRF				
		Southwestern Ryukyu Islands, Japan										
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		BRG	e P	Z 10:41:14.9	82.8	58.1	1.3	8	4.8			
		CLL	e P	Z 10:41:15.9	83.0	57.4	1.1	8	4.9			
		GEC2	e P	Z 10:41:21.7	84.0	57.7	1.3	8	4.8			
		GRA1	e P	Z 10:41:26.2	84.9	56.0	1.4	24	5.2			
			e L	Z 11:24:03.6			18.1	477		4.9		
		UBBA	e P	Z 10:41:24.7	84.9	55.2	1.7	19	5.1			
		IBBN	e P	Z 10:41:27.7	85.1	53.6	1.1	19	5.2			
		FUR	e P	Z 10:41:30.8	85.7	55.9	1.5	53	5.4			
		STU	e P	Z 10:41:34.1	86.5	54.4	1.0	14	5.1			
		BFO	e P	Z 10:41:37.4	87.2	53.8	1.3	10	4.8			
		WLF	e P	Z 10:41:39.9	87.5	52.2	1.5	17	5.1			
2007/04/22	11:57:42.8	3.916S	81.253W	33.0N	4.9			SZGRF				

Near coast of northern Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:11:00.4	94.6	269.3	1.6	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/22	13:40:58.2	6.500S	146.300E	118.0				NEIC

Eastern New Guinea, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 13:59:36.9	120.7	58.6					
CLL	e PKPdf	Z 13:59:37.5	121.0	57.5					
TANN	e PKPdf	Z 13:59:38.7	121.7	57.4					
GEC2	e PKPdf	Z 13:59:39.3	121.9	59.4					
WET	e PKPdf	Z 13:59:39.6	122.2	58.5					
GRA1	e PKPdf	Z 13:59:41.1	122.8	56.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:45:14.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/22	15:37:34.6	34.263N	33.171E	32.0	3.8			KAN

Cyprus region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 15:42:09.8	20.5	128.1	0.8	3	3.7		
WET	e P	Z 15:42:16.0	21.1	127.3	1.1	5	3.7		
BFO	e P	Z 15:42:38.7	23.2	118.2	1.0	6	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/22	17:34:44.9	54.960N	161.580W	45.6	5.0			SZGRF

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 17:46:01.7	70.9	355.1	0.9	15	5.1		
NRDL	e P	Z 17:46:10.0	72.3	355.0	1.0	15	5.1		
IBBN	e P	Z 17:46:10.3	72.4	353.6	1.3	25	5.2		
RUE	e P	Z 17:46:11.1	72.5	357.2	1.3	45	5.4		

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CLL	e P	Z	17:46:17.3	73.6	356.8	1.1	16	5.0
	e pP	Z	17:46:30.5					
FBE	e P	Z	17:46:20.1	74.0	357.0	1.1	25	5.2
	e pP	Z	17:46:33.0					
BRG	e P	Z	17:46:20.3	74.1	357.3	1.0	12	4.9
	e pP	Z	17:46:33.3					
MOX	e P	Z	17:46:21.2	74.2	355.9	1.1	19	5.0
WERD	e P	Z	17:46:22.1	74.5	356.4	1.1	6	4.5
TANN	e P	Z	17:46:23.1	74.5	356.5	1.7	14	4.7
GUNZ	e P	Z	17:46:23.3	74.6	356.4	1.7	19	4.8
WERN	e P	Z	17:46:23.8	74.6	356.4	1.2	11	4.8
WLF	e P	Z	17:46:25.2	74.9	352.7	1.2	16	4.9
GRA1	e P	Z	17:46:27.0	75.2	355.7	0.9	12	5.0
WET	e P	Z	17:46:30.5	75.8	356.7	1.1	9	4.8
STU	e P	Z	17:46:31.0	76.0	354.6	0.6	11	5.1
GEC2	e P	Z	17:46:32.1	76.1	357.2	0.9	8	4.8
BFO	e P	Z	17:46:33.2	76.4	354.1	0.9	6	4.8
FUR	e P	Z	17:46:35.5	76.7	355.8	0.9	13	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/22	23:56:40.7	47.237N	153.905E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:08:14.9	74.2	24.8	0.7	4	4.6		
CLL	e P	Z 00:08:23.9	75.9	26.2	0.6	20	5.4		
BRG	e P	Z 00:08:24.6	76.0	26.7	1.1	10	4.9		
CLZ	e P	Z 00:08:26.1	76.1	24.6	1.0	13	5.0		
MOX	e P	Z 00:08:29.4	76.9	25.2	1.3	11	4.8		
ROTZ	e P	Z 00:08:33.5	77.5	25.5	1.3	8	4.7		
GRA1	e P	Z 00:08:35.4	77.8	24.9	0.6	10	5.1		
WET	e P	Z 00:08:35.4	77.9	25.9	1.0	8	4.8		
GEC2	e P	Z 00:08:35.7	77.9	26.4	0.8	4	4.6		
BFO	e P	Z 00:08:45.9	79.9	22.9	1.0	5	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/23	07:02:58.9	21.250S	174.489W	35.0G				NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 07:22:56.6	151.2	11.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/23 09:45:25.1 21.220S 170.110E 95.9  
Southeast of Loyalty Islands

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	10:04:49.4	145.0	41.0					
	e		10:04:59.1							
CLL	e PKPbc	Z	10:04:49.2	145.0	39.2					
FBE	e PKPbc	Z	10:04:50.2	145.2	40.1					
CLZ	e PKPbc	Z	10:04:51.8	145.6	34.8					
	e		10:05:01.8							
TANN	e PKPbc	Z	10:04:52.8	145.9	39.3					
	e pPKPbc	Z	10:05:19.0							
WERD	e PKPbc	Z	10:04:53.1	146.0	39.0					
GUNZ	e PKPbc	Z	10:04:53.4	146.0	39.1					
	e		10:05:03.2							
	e pPKPbc	Z	10:05:19.5							
WERN	e PKPbc	Z	10:04:53.4	146.1	39.2					
	e		10:05:03.4							
	e pPKPbc	Z	10:05:19.4							
MOX	e PKPbc	Z	10:04:53.1	146.1	37.8					
	e		10:05:03.1							
MANZ	e PKPbc	Z	10:04:54.1	146.4	39.1					
ROTZ	e PKPbc	Z	10:04:54.7	146.5	39.5					
	e		10:05:04.8							
UBBA	e PKPbc	Z	10:04:54.4	146.6	35.1					
GEC2	e PKPbc	Z	10:04:54.6	146.6	42.6					
	e		10:05:04.8							
WET	e PKPbc	Z	10:04:55.3	146.7	41.1					
GRA1	e PKPbc	Z	10:04:56.1	147.0	38.0					
STU	e PKPbc	Z	10:05:00.3	148.5	35.7					
WLF	e PKPbc	Z	10:05:01.5	148.8	29.9					
BFO	e PKPbc	Z	10:05:01.6	149.2	34.7					
	e PKPab	Z	10:05:05.8							

Date Origin Time Lat Long Depth mb Ms ML Source  
2007/04/23 10:45:57.4 21.320S 169.920E 33.0  
Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	11:05:29.7	145.0	41.4					
CLL	e PKPbc	Z	11:05:29.8	145.0	39.6					
	e pPKPbc	Z	11:05:39.7							
FBE	e PKPbc	Z	11:05:30.6	145.2	40.5					
CLZ	e PKPbc	Z	11:05:32.1	145.6	35.2					
TANN	e PKPbc	Z	11:05:33.3	145.9	39.6					
	e pPKPbc	Z	11:05:43.2							
WERD	e PKPbc	Z	11:05:33.4	146.0	39.4					

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	e pPKPbc	Z	11:05:43.3		
GUNZ	e PKPbc	Z	11:05:33.6	146.0	39.5
	e pPKPbc	Z	11:05:43.8		
WERN	e PKPbc	Z	11:05:34.0	146.1	39.6
	e pPKPbc	Z	11:05:43.6		
MOX	e PKPbc	Z	11:05:33.7	146.1	38.1
	e pPKPbc	Z	11:05:43.5		
MANZ	e PKPbc	Z	11:05:34.5	146.4	39.5
ROTZ	e PKPbc	Z	11:05:35.1	146.5	39.9
	e pPKPbc	Z	11:05:45.0		
UBBA	e pPKPbc	Z	11:05:44.7	146.6	35.5
GEC2	e PKPbc	Z	11:05:35.2	146.6	43.0
	e pPKPbc	Z	11:05:45.0		
WET	e PKPbc	Z	11:05:35.8	146.7	41.5
	e pPKPbc	Z	11:05:45.7		
GRA1	e PKPbc	Z	11:05:36.5	147.0	38.4
WLF	e PKPbc	Z	11:05:42.0	148.9	30.3
BFO	e PKPbc	Z	11:05:42.3	149.2	35.1
	e PKPab	Z	11:05:46.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/23	18:03:58.1	27.250N	44.660W	33.0N	4.7			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 18:12:16.1	45.7	262.4	1.2	11	4.7		
CLZ	e P	Z 18:12:30.4	47.6	260.8	1.1	7	4.7		
GRA1	e P	Z 18:12:32.7	47.8	263.5	1.0	5	4.6		
BSEG	e P	Z 18:12:33.1	47.9	258.9	1.3	32	5.3		
WET	e P	Z 18:12:40.1	48.8	265.3	1.6	10	4.6		
CLL	e P	Z 18:12:42.4	49.1	263.5	1.2	5	4.4		
GEC2	e P	Z 18:12:44.3	49.3	266.2	1.3	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/23	20:47:12.8	28.900N	42.790W	33.0N	5.0			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 20:55:13.2	43.4	262.5	1.8	31	4.7		
GRA1	e P	Z 20:55:30.0	45.5	263.6	2.5	73	5.3		
BSEG	e P	Z 20:55:30.5	45.6	258.7	1.7	59	5.3		
MOX	e P	Z 20:55:32.6	45.8	263.0	2.1	35	5.0		
MANZ	e P	Z 20:55:34.9	46.1	264.0	2.2	29	4.9		
ROTZ	e P	Z 20:55:34.5	46.1	264.3	2.1	26	4.9		
WERD	e P	Z 20:55:35.7	46.2	263.8	2.2	36	5.0		

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WET	e P	Z	20:55:37.8	46.5	265.5	2.0	21	4.9
GEC2	e P	Z	20:55:41.8	47.0	266.4	2.0	23	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/23	21:39:27.2	28.660N	43.060W	33.0N	4.9			SZGRF
Northern Mid-Atlantic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 21:47:20.6	42.6	259.2	1.5	26	4.7		
BFO	e P	Z 21:47:30.6	43.8	262.5	1.7	27	4.7		
GRA1	e P	Z 21:47:47.0	45.8	263.6	2.0	33	5.0		
BSEG	e P	Z 21:47:47.8	45.9	258.7	1.7	60	5.4		
MOX	e P	Z 21:47:49.6	46.2	263.0	2.0	21	4.8		
CLL	e P	Z 21:47:56.9	47.1	263.5	1.8	14	4.8		
GEC2	e P	Z 21:47:58.9	47.3	266.4	1.5	10	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/23	21:45:17.0	47.560N	151.920E	33.0N	4.7			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 21:56:47.9	73.4	25.9	0.8	5	4.6		
CLL	e P	Z 21:56:56.8	75.0	27.3	0.7	13	5.1		
CLZ	e P	Z 21:56:59.1	75.3	25.7	1.0	10	4.9		
MOX	e P	Z 21:57:02.7	76.0	26.4	0.8	5	4.7		
GUNZ	e P	Z 21:57:03.4	76.1	26.8	1.0	5	4.6		
WERN	e P	Z 21:57:03.7	76.1	26.8	0.7	6	4.8		
MANZ	e P	Z 21:57:05.4	76.5	26.6	0.9	4	4.6		
ROTZ	e P	Z 21:57:06.6	76.6	26.6	0.8	4	4.6		
GRA1	e P	Z 21:57:08.7	77.0	26.0	0.8	10	5.0		
WET	e P	Z 21:57:08.7	77.0	27.0	0.9	6	4.7		
GEC2	e P	Z 21:57:08.3	77.0	27.5	1.0	4	4.5		
BFO	e P	Z 21:57:19.4	79.0	24.1	1.5	12	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/23	22:59:18.3	27.710N	44.060W	33.0N	4.8			SZGRF
Northern Mid-Atlantic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 23:07:31.7	45.0	262.3	1.4	10	4.6		
CLZ	e P	Z 23:07:46.3	46.9	260.7	1.2	11	4.8		
GRA1	e P	Z 23:07:48.2	47.1	263.4	1.8	14	4.8		
BSEG	e P	Z 23:07:48.8	47.2	258.8	1.6	37	5.2		

MOX	e P	Z	23:07:50.7	47.5	262.9	1.8	17	4.9
WERN	e P	Z	23:07:54.4	47.9	263.9	1.8	22	5.0
CLL	e P	Z	23:07:58.1	48.4	263.5	1.1	6	4.6
GEC2	e P	Z	23:08:00.1	48.6	266.2	1.6	11	4.6
BRG	e P	Z	23:08:02.2	48.9	264.6	1.1	4	4.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	00:14:21.1	30.149N	43.049W	21.4	4.9	4.2		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 00:22:15.6	42.8	264.1	1.2	15	4.6		
BSEG	e P	Z 00:22:32.8	44.8	260.1	1.3	50	5.3		
GRA1	e P	Z 00:22:32.0	44.8	265.1	2.1	50	5.1		
	e pP	Z 00:22:37.8							
	e S	R 00:29:18.0							
	e L	Z 00:38:15.4			20.4	268		4.2	
WET	e P	Z 00:22:38.2	45.8	267.0	2.7	48	5.1		
CLL	e P	Z 00:22:41.7	46.1	265.0	1.5	8	4.5		
GEC2	e P	Z 00:22:43.6	46.4	267.9	1.4	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	00:25:38.9	30.187N	43.155W	16.5	4.7			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 00:33:28.9	42.8	264.3					
CLZ	e P	Z 00:33:45.2	44.5	262.4	1.3	10	4.6		
	e pP	Z 00:33:48.8							
BSEG	e P	Z 00:33:45.8	44.8	260.2	1.0	20	5.0		
	e pP	Z 00:33:51.1							
GRA1	e P	Z 00:33:50.1	44.8	265.2	1.0	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	02:24:12.4	31.352N	141.493E	45.2	4.9	4.3		SZGRF

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 02:36:42.7	84.9	40.2	1.0	16	5.2		
BRG	e P	Z 02:36:46.4	85.7	42.8	1.2	6	4.6		
	e pP	Z 02:36:59.9							
CLL	e P	Z 02:36:46.9	85.8	42.1	1.3	12	4.9		
CLZ	e P	Z 02:36:50.3	86.4	40.1	1.4	15	4.9		



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MOX	e P	Z	02:36:52.1	86.8	41.0	1.4	8	4.7		
ROTZ	e P	Z	02:36:54.7	87.3	41.4	1.2	5	4.8		
GRA1	e P	Z	02:36:56.8	87.7	40.7	3.1	82	5.5		
	e pP	Z	02:37:09.7							
	e L	Z	03:26:07.4			19.7	106		4.3	
STU	e P	Z	02:37:04.1	89.3	39.2	1.1	10	5.0		
WLF	e P	Z	02:37:06.7	89.8	36.9	1.2	10	4.9		
BFO	e P	Z	02:37:06.6	90.0	38.5	1.3	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPdf	Z 05:09:40.4							
GUNZ	e PKPdf	Z 05:09:38.8							
NKC	e PKPdf	Z 05:09:39.2							
TANN	e PKPdf	Z 05:09:38.8							
WERD	e PKPdf	Z 05:09:38.6							
WERN	e PKPdf	Z 05:09:39.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	05:56:41.6	29.770N	43.096W	15.1	5.0	4.2		SZGRF
Northern Mid-Atlantic Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 06:04:28.4	41.8	260.5	1.5	32	4.8		
	e pP	Z 06:04:33.6							
BFO	e P	Z 06:04:38.1	43.1	263.8	1.4	26	4.8		
	e pP	Z 06:04:42.2							
UBBA	e P	Z 06:04:48.5	44.4	262.6	2.1	37	4.9		
	e pP	Z 06:04:53.1							
CLZ	e P	Z 06:04:52.3	44.8	261.9	1.8	30	4.9		
	e pP	Z 06:04:57.1							
GRA1	e P	Z 06:04:54.7	45.1	264.7	1.4	25	4.9		
	e pP	Z 06:04:58.8							
	e L	Z 06:20:36.8			20.3	312		4.2	
BSEG	e P	Z 06:04:54.7	45.1	259.8	1.5	75	5.4		
	e pP	Z 06:04:59.4							
MOX	e P	Z 06:04:57.5	45.4	264.1	2.0	26	4.9		
MANZ	e P	Z 06:04:58.1	45.7	265.2	2.0	28	4.9		
ROTZ	e P	Z 06:04:59.4	45.7	265.5	2.1	33	5.0		
	e pP	Z 06:05:03.3							
WET	e P	Z 06:05:02.1	46.1	266.6	1.6	19	4.9		
	e pP	Z 06:05:06.5							
GEC2	e P	Z 06:05:05.4	46.6	267.5	2.0	32	5.1		

	e pP	Z	06:05:10.7							
BRG	e P	Z	06:05:08.8	46.9	265.8	3.0		93	5.4	
	e pP	Z	06:05:13.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	07:20: 4.9	36.402N	70.967E	33.0N	4.6	4.2		SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:27:56.5	42.5	87.1	0.7	9	4.6		
GEC2	e P	Z 07:27:58.9	42.8	84.7	0.9	3	4.1		
CLL	e P	Z 07:28:01.0	43.1	86.8	1.3	11	4.4		
TANN	e P	Z 07:28:05.1	43.5	85.5	1.1	5	4.2		
ROTZ	e P	Z 07:28:06.8	43.7	84.6	1.5	12	4.4		
MANZ	e P	Z 07:28:07.4	43.8	84.8	1.2	8	4.3		
MOX	e P	Z 07:28:08.7	44.0	85.1	0.8	5	4.3		
GRA1	e P	Z 07:28:12.4	44.4	83.9	0.6	15	4.9		
	e L	Z 07:49:04.7			20.2	313		4.2	
FUR	e P	Z 07:28:13.5	44.5	82.4	0.6	20	5.2		
BSEG	e P	Z 07:28:13.4	44.6	87.5	1.1	15	4.8		
CLZ	e P	Z 07:28:14.2	44.7	85.4	1.3	13	4.7		
IBBN	e P	Z 07:28:26.9	46.3	84.0	0.8	19	5.2		
BFO	e P	Z 07:28:27.8	46.4	80.6	1.1	8	4.8		
WLF	e P	Z 07:28:38.0	47.6	80.4	0.9	15	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	07:25:56.6	30.224N	42.855W	15.3	4.9	4.3		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 07:33:49.5	42.6	264.1	1.3	20	4.7		
	e pP	Z 07:33:53.8							
CLZ	e P	Z 07:34:08.2	44.3	262.1	1.4	22	4.7		
BSEG	e P	Z 07:34:05.3	44.6	260.0	1.3	70	5.4		
	e pP	Z 07:34:10.8							
GRA1	e P	Z 07:34:06.1	44.6	265.0	1.4	24	4.9		
	e pP	Z 07:34:10.2			1.6	23			
	e L	Z 08:00:51.7			19.4	395		4.3	
MOX	e P	Z 07:34:08.5	45.0	264.4	1.4	14	4.7		
	e pP	Z 07:34:13.0							
MANZ	e P	Z 07:34:10.6	45.2	265.5	1.6	22	4.8		
ROTZ	e P	Z 07:34:10.9	45.3	265.7	1.3	10	4.6		
TANN	e P	Z 07:34:13.2	45.5	265.3	2.5	53	5.1		
GEC2	e P	Z 07:34:16.8	46.2	267.8	1.8	27	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	07:37:10.3	30.290N	42.894W	16.9	4.9			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 07:45:03.2	42.6	264.2	1.3	23	4.8		
	e pP	Z 07:45:07.8							
CLZ	e P	Z 07:45:18.5	44.3	262.2	1.5	25	4.7		
	e pP	Z 07:45:22.2							
BSEG	e P	Z 07:45:20.7	44.6	260.1	1.4	66	5.4		
	e pP	Z 07:45:25.2							
GRA1	e P	Z 07:45:19.7	44.6	265.1	1.4	20	4.9		
	e pP	Z 07:45:24.2							
MOX	e P	Z 07:45:21.1	44.9	264.5	1.9	35	5.0		
	e pP	Z 07:45:26.8							
MANZ	e P	Z 07:45:23.8	45.2	265.6	1.3	11	4.6		
CLL	e P	Z 07:45:29.6	45.9	265.0	1.1	10	4.7		
	e pP	Z 07:45:33.9							
GEC2	e P	Z 07:45:31.2	46.2	267.9	1.5	20	4.9		
	e pP	Z 07:45:35.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	08:24:45.5	47.971N	154.155E	33.0N	4.8	4.3		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 08:36:25.1	75.3	25.7	0.7	8	4.9		
CLZ	e P	Z 08:36:27.4	75.5	24.1					
ROTZ	e P	Z 08:36:34.7	76.9	25.1	1.1	8	4.7		
GRA1	e P	Z 08:36:36.8	77.2	24.4	1.1	15	5.0		
	e L	Z 09:13:56.0			20.0	152		4.3	
WET	e P	Z 08:36:37.2	77.3	25.4	1.4	14	4.9		
GEC2	e P	Z 08:36:36.6	77.3	25.9	0.7	3	4.5		
BFO	e P	Z 08:36:48.5	79.2	22.5	1.1	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	08:53:45.5	5.702N	71.806W	33.0N	5.0			SZGRF

Colombia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z 09:05:55.8	80.7	267.4	1.4	20	4.9		
BSEG	e P	Z 09:05:55.7	80.8	267.0	1.3	20	5.0		
GRA1	e P	Z 09:05:58.1	81.1	268.4	0.6	17	5.2		

MANZ	e P	Z	09:06:01.4	81.7	269.0	0.7	7	4.9
TANN	e P	Z	09:06:02.5	82.0	269.2	1.1	9	4.8
WET	e P	Z	09:06:04.5	82.2	269.7	1.2	13	4.9
CLL	e P	Z	09:06:04.6	82.3	269.5	0.8	7	4.9
GEC2	e P	Z	09:06:06.9	82.8	270.4	1.1	11	5.0
BRG	e P	Z	09:06:07.5	82.9	270.3	1.0	10	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	12:14:22.7	7.800S	155.600E	10.0		5.3		NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:33:29.5	128.6	47.6					
	e PP	Z 12:35:36.0							
	e L	Z 13:23:35.9			18.8	572		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	12:58:2.9	30.190N	43.006W	33.0N	4.7			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 13:05:57.2	42.7	264.2	1.0	11	4.6		
BSEG	e P	Z 13:06:14.1	44.7	260.1	1.0	22	5.0		
GRA1	e P	Z 13:06:13.3	44.7	265.1	1.2	9	4.6		
GEC2	e P	Z 13:06:25.4	46.3	267.9	1.0	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/24	16:07:44.5	29.233N	43.009W	17.9	5.4	4.9		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 16:15:36.2	42.1	259.8	1.6	129	5.4		
	e P	R 16:22:04.3							
BFO	e P	Z 16:15:45.8	43.3	263.1	1.3	89	5.3		
	e pP	Z 16:15:50.6							
	e P	R 16:22:18.8							
IBBN	e P	Z 16:15:48.2	43.6	258.5	1.1	67	5.3		
	e S	R 16:22:24.1							
STU	e P	Z 16:15:50.3	44.0	263.4	1.1	54	5.2		
	e S	R 16:22:28.0							
HLG	e S	R 16:22:34.6	44.1	256.7					
UBBA	e P	Z 16:15:56.9	44.7	262.0	1.6	54	5.0		
	e S	R 16:22:42.5							

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CLZ	e P	Z	16:16:00.2	45.1	261.3	1.4	75	5.4		
	e S	R	16:22:43.8							
FUR	e P	Z	16:16:01.4	45.3	265.7	1.6	98	5.5		
	e pP	Z	16:16:05.8							
	e S	R	16:22:46.5							
GRA1	e P	Z	16:16:02.1	45.4	264.1	2.0	139	5.5		
	e pP	Z	16:16:07.0							
	e S	R	16:22:47.9							
	e L	Z	16:31:45.5			20.6	1259		4.9	
BSEG	e P	Z	16:16:02.7	45.4	259.2	1.3	236	6.0		
	e pP	Z	16:16:07.5							
	e S	R	16:22:50.1							
MOX	e P	Z	16:16:04.8	45.7	263.5	1.7	75	5.3		
	e S	R	16:22:55.7							
MANZ	e P	Z	16:16:07.1	46.0	264.6	1.7	80	5.4		
	e S	R	16:22:55.7							
ROTZ	e P	Z	16:16:07.1	46.0	264.8	1.5	39	5.2		
	e S	R	16:23:01.0							
WERD	e P	Z	16:16:07.9	46.2	264.3	1.8	48	5.2		
GUNZ	e P	Z	16:16:08.5	46.2	264.4	2.2	107	5.5		
WERN	e P	Z	16:16:08.7	46.2	264.5	1.6	97	5.6		
TANN	e P	Z	16:16:09.0	46.2	264.4	2.7	142	5.5		
	e S	R	16:23:02.3							
WET	e P	Z	16:16:10.2	46.4	266.0	1.7	72	5.4		
	e pP	Z	16:16:15.0							
	e S	R	16:23:03.6							
CLL	e P	Z	16:16:12.1	46.7	264.0	1.5	43	5.2		
	e pP	Z	16:16:17.2							
	e S	R	16:23:06.2							
FBE	e P	Z	16:16:13.7	46.9	264.7	1.5	57	5.4		
GEC2	e P	Z	16:16:14.1	46.9	266.9	1.5	65	5.4		
	e pP	Z	16:16:18.9							
BRG	e P	Z	16:16:16.3	47.2	265.2	1.8	57	5.4		
	e S	R	16:23:16.8							
RUE	e P	Z	16:16:16.9	47.3	263.6	1.3	61	5.6		
RGN	e P	Z	16:16:17.0	47.3	261.3	1.8	235	6.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/24 18:21:30.8 15.150S 65.450E 33.0N 4.9 4.4 SZGRF  
 Mid-Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 18:33:28.4	78.7	129.4	2.1	26	5.0		
WET	e P	Z 18:33:31.6	79.3	128.7	1.7	12	4.7		
FUR	e P	Z 18:33:33.7	79.5	127.3	1.8	114	5.6		
BRG	e P	Z 18:33:35.6	79.8	129.9	1.2	7	4.5		
ROTZ	e P	Z 18:33:37.7	80.0	128.3	1.6	12	4.6		

MANZ	e P	Z	18:33:38.3	80.2	128.2	1.9	22	4.8		
TANN	e P	Z	18:33:37.9	80.3	128.6	1.4	12	4.6		
GRA1	e P	Z	18:33:38.7	80.5	127.4	1.4	24	5.0		
	e S	T	18:43:48.5							
	e L	Z	19:09:55.3			18.8	162		4.4	
CLL	e P	Z	18:33:39.3	80.6	129.1	2.0	40	5.0		
MOX	e P	Z	18:33:40.7	80.8	127.9	1.4	14	4.8		
BFO	e P	Z	18:33:42.5	81.2	124.9	1.5	17	4.9		
UBBA	e P	Z	18:33:45.6	81.8	126.6	1.7	18	4.9		
CLZ	e P	Z	18:33:48.0	82.2	127.0	1.2	21	5.1		
WLF	e P	Z	18:33:53.0	83.1	123.3	1.1	8	4.9		
BSEG	e P	Z	18:33:54.2	83.5	127.1	2.5	66	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/24 22:47:17.4 29.480N 42.904W 33.0N 4.9 4.4  
 Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z	22:55:17.4	43.1	263.3	1.2	16	4.6		
GRA1	e P	Z	22:55:31.2	45.1	264.3	1.5	38	5.1		
	e S	R	23:02:15.0							
	e L	Z	23:11:15.8			20.2	414		4.4	
BSEG	e P	Z	22:55:32.8	45.2	259.3	1.3	34	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/25 01:01:23.7 21.540S 169.500E 37.8  
 Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	01:20:55.2	145.0	42.1					
	e pPKPbc	Z	01:21:06.7							
CLL	e PKPbc	Z	01:20:55.3	145.1	40.4					
	e pPKPbc	Z	01:21:06.5							
FBE	e PKPbc	Z	01:20:56.1	145.2	41.2					
	e pPKPbc	Z	01:21:07.5							
CLZ	e PKPbc	Z	01:20:58.1	145.7	36.0					
	e pPKPbc	Z	01:21:09.2							
TANN	e PKPbc	Z	01:20:58.9	146.0	40.4					
	e pPKPbc	Z	01:21:10.1							
WERD	e PKPbc	Z	01:20:59.0	146.0	40.2					
	e pPKPbc	Z	01:21:10.4							
GUNZ	e PKPbc	Z	01:20:59.3	146.1	40.3					
	e pPKPbc	Z	01:21:10.7							
WERN	e PKPbc	Z	01:20:59.5	146.1	40.4					
	e pPKPbc	Z	01:21:10.8							

MOX	e	PKPbc	Z	01:20:59.2	146.1	38.9
	e	pPKPbc	Z	01:21:10.8		
IBBN	e	PKPbc	Z	01:20:59.1	146.2	31.6
MANZ	e	PKPbc	Z	01:21:00.4	146.4	40.3
	e	pPKPbc	Z	01:21:11.9		
ROTZ	e	PKPbc	Z	01:21:01.0	146.6	40.7
	e	pPKPbc	Z	01:21:12.2		
GEC2	e	PKPbc	Z	01:21:00.8	146.6	43.8
	e	pPKPbc	Z	01:21:12.0		
UBBA	e	PKPbc	Z	01:21:00.9	146.6	36.3
	e	pPKPbc	Z	01:21:11.8		
WET	e	PKPbc	Z	01:21:01.5	146.7	42.3
	e	pPKPbc	Z	01:21:12.7		
GRA1	e			01:21:13.8	147.0	39.2
FUR	e	PKPbc	Z	01:21:05.3	148.2	40.9
	e	pPKPbc	Z	01:21:16.8		
WLF	e	PKPbc	Z	01:21:08.0	148.9	31.1
	e	pPKPbc	Z	01:21:19.1		
BFO	e	PKPbc	Z	01:21:07.7	149.3	36.0
	e	pPKPbc	Z	01:21:19.4		

Date 2007/04/25 Origin Time 02:11:58.2 Lat 47.395N Long 27.509W Depth 33.0N mb 5.3 Ms 4.9 ML Source SZGRF  
Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 02:16:53.3	22.2	277.1	1.5	72	4.9		
	e S	R 02:20:59.4							
IBBN	e P	Z 02:17:01.4	23.0	271.9	2.8	1974	6.1		
	e S	R 02:21:13.6							
BFO	e P	Z 02:17:08.7	23.8	281.3	2.5	275	5.3		
	e S	R 02:21:26.2							
STU	e P	Z 02:17:13.2	24.3	280.8	1.3	75	5.1		
	e S	R 02:21:31.6							
UBBA	e P	Z 02:17:14.2	24.5	276.7	2.6	134	5.2		
	e S	R 02:21:38.3							
BSEG	e P	Z 02:17:15.8	24.5	270.1	2.0	240	5.6		
CLZ	e P	Z 02:17:16.7	24.7	274.8	2.1	268	5.6		
	e S	R 02:21:41.3							
GRA1	e P	Z 02:17:23.6	25.5	279.8	1.8	117	5.2		
	e S	R 02:21:53.9							
	e L	Z 02:26:16.6			21.8	3597		4.9	
MOX	e P	Z 02:17:24.8	25.6	278.1	2.6	169	5.2		
	e S	R 02:21:55.5							
FUR	e P	Z 02:17:27.3	25.8	283.0	1.8	158	5.3		
	e S	R 02:21:58.0							
MANZ	e P	Z 02:17:28.1	26.0	279.7	2.2	291	5.5		

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	e S	R	02:22:03.0							
ROTZ	e P	Z	02:17:28.5	26.1	280.2	2.6		267	5.4	
	e S	R	02:22:04.7							
TANN	e P	Z	02:17:29.9	26.1	279.0	2.7		206	5.3	
	e S	R	02:22:03.5							
CLL	e P	Z	02:17:32.0	26.3	277.6	2.8		361	5.5	
	e S	R	02:22:06.8							
WET	e P	Z	02:17:34.0	26.6	281.8	1.6		44	4.9	
	e S	R	02:22:11.4							
BRG	e P	Z	02:17:37.1	27.0	279.0	2.2		121	5.2	
	e S	R	02:22:18.1							
GEC2	e P	Z	02:17:39.5	27.2	282.8	1.7		42	4.9	
	e S	R	02:22:18.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/25	03:22:46.7	15.600S	167.700E	132.0				NEIC
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 03:41:54.8	137.8	33.5					
BRG	e PKPdf	Z 03:41:56.7	138.9	40.4					
CLZ	e PKPdf	Z 03:41:58.6	139.5	34.9					
MOX	e PKPdf	Z 03:41:59.3	140.0	37.4					
MANZ	e PKPdf	Z 03:41:59.2	140.3	38.6					
GEC2	e PKPdf	Z 03:42:00.0	140.5	41.6					
WET	e PKPdf	Z 03:42:00.0	140.7	40.3					
GRA1	e PKPdf	Z 03:41:56.9	140.9	37.6					
FUR	e PKPdf	Z 03:42:00.6	142.1	38.8					
WLF	e PKPdf	Z 03:42:01.5	142.8	30.3					
BFO	e PKPdf	Z 03:42:02.1	143.1	34.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/25	04:19: 2.8	28.470N	56.583E	33.0N	5.0	4.3		SZGRF
Southern Iran								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:26:21.6	38.5	106.0	1.0	23	4.8		
BRG	e P	Z 04:26:25.2	38.9	108.6	1.3	34	4.8		
WET	e P	Z 04:26:26.3	39.1	105.5	1.4	43	4.9		
CLL	e P	Z 04:26:31.6	39.6	108.2	1.8	95	5.1		
ROTZ	e P	Z 04:26:31.8	39.7	105.6	1.3	55	5.0		
TANN	e P	Z 04:26:31.9	39.7	106.6	1.5	17	4.5		
MANZ	e P	Z 04:26:31.6	39.8	105.8	2.4	96	5.0		
FUR	e P	Z 04:26:33.1	39.9	102.9	1.2	48	5.0		
GRA1	e P	Z 04:26:36.9	40.3	104.6	1.4	127	5.4		



	e L	Z	04:47:35.3			20.6	407	4.3
MOX	e P	Z	04:26:36.9	40.3	106.0	1.6	34	4.7
UBBA	e P	Z	04:26:45.3	41.3	104.7	1.5	38	4.9
STU	e P	Z	04:26:45.5	41.3	101.7	1.2	21	4.7
CLZ	e P	Z	04:26:46.5	41.4	106.2	1.2	126	5.5
BFO	e P	Z	04:26:48.6	41.8	100.4	0.9	10	4.5
BSEG	e P	Z	04:26:51.7	42.0	108.3	1.2	88	5.4
IBBN	e P	Z	04:27:00.6	43.0	104.1	1.2	115	5.5

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/25 10:06:55.1 46.642N 151.985E 33.0N 5.1 SZGRF  
 Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 10:18:29.2	74.3	26.3	0.8	14	5.0		
CLL	e P	Z 10:18:37.9	75.9	27.7	0.7	28	5.5		
BRG	e P	Z 10:18:38.7	76.0	28.2	0.7	6	4.8		
CLZ	e P	Z 10:18:40.3	76.2	26.0	0.9	22	5.3		
IBBN	e P	Z 10:18:41.2	76.4	24.4	0.6	28	5.6		
TANN	e P	Z 10:18:43.6	76.8	27.2	0.9	5	4.7		
MOX	e P	Z 10:18:43.9	76.9	26.7	0.9	15	5.1		
UBBA	e P	Z 10:18:45.3	77.2	25.7	0.9	8	4.8		
MANZ	e P	Z 10:18:46.5	77.3	27.0	1.0	12	5.0		
ROTZ	e P	Z 10:18:47.7	77.5	27.0	1.0	14	5.0		
GRA1	e P	Z 10:18:49.8	77.9	26.4	0.7	38	5.6		
WET	e P	Z 10:18:49.9	77.9	27.4	0.9	17	5.2		
GEC2	e P	Z 10:18:49.4	77.9	27.9	0.7	8	4.9		
FUR	e P	Z 10:18:57.1	79.2	26.3	1.3	42	5.2		
WLF	e P	Z 10:18:58.7	79.2	23.1	1.4	20	4.9		
STU	e P	Z 10:18:57.3	79.3	25.0	1.0	25	5.1		
BFO	e P	Z 10:19:00.6	79.9	24.4	0.9	18	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/25

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:01:54.8							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/25 11:52:57.0 7.400N 126.500E 35.0 5.3 NEIC  
 Mindanao, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e Pdiff	Z	12:06:29.1	98.1	67.7						
	e pPdiff	Z	12:06:39.5								
CLL	e Pdiff	Z	12:06:30.4	98.4	66.8						
	e pPdiff	Z	12:06:41.1								
BSEG	e Pdiff	Z	12:06:32.5	98.8	64.2						
	e pPdiff	Z	12:06:42.9								
GEC2	e Pdiff	Z	12:06:33.2	99.0	67.7						
	e pPdiff	Z	12:06:43.2								
TANN	e Pdiff	Z	12:06:33.8	99.1	66.5						
	e pPdiff	Z	12:06:44.1								
WET	e Pdiff	Z	12:06:35.2	99.4	67.0						
	e pPdiff	Z	12:06:45.7								
MANZ	e Pdiff	Z	12:06:35.8	99.5	66.3						
	e pPdiff	Z	12:06:46.2								
MOX	e Pdiff	Z	12:06:35.6	99.5	65.8						
	e pPdiff	Z	12:06:45.9								
ROTZ	e Pdiff	Z	12:06:35.9	99.5	66.4						
	e pPdiff	Z	12:06:46.4								
CLZ	e Pdiff	Z	12:06:36.9	99.7	64.6						
	e pPdiff	Z	12:06:47.1								
GRA1	e Pdiff	Z	12:06:38.9	100.1	65.6						
	e pPdiff	Z	12:06:49.4								
	e PP	Z	12:10:49.0								
	e L	Z	12:54:59.5			21.3	1064			5.3	
UBBA	e Pdiff	Z	12:06:41.0	100.4	64.4						
	e pPdiff	Z	12:06:50.5								
IBBN	e Pdiff	Z	12:06:42.3	100.9	62.3						
	e pPdiff	Z	12:06:53.0								
WLF	e Pdiff	Z	12:06:52.3	103.1	61.5						
	e pPdiff	Z	12:07:02.2								

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/25 12:34:40.7 30.132N 42.790W 20.5 4.6 4.7  
 Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:42:50.3	44.6	264.9	1.3	10	4.6		
	e pP	Z 12:42:55.8							
	e L	Z 12:54:59.5			21.3	1064		4.7	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/25 13:34:16.3 14.300S 166.800E 69.0  
 Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e PKPdf	Z	13:53:30.0	136.3	34.0
	e SKPdf	Z	13:56:58.1		
BRG	e SKPdf	Z	13:57:01.3	137.4	40.7
CLL	e PKPpre	Z	13:53:25.0	137.4	39.2
	e PKPdf	Z	13:53:31.7		
	e pPKPdf	Z	13:53:48.6		
	e pPP	Z	13:56:31.7		
	e SKPbc	Z	13:57:03.2		
	e SKKSac	N	14:03:08.6		
	e Sdiff	E	14:04:37.1		
	e PS	E	14:06:42.3		
	e PPS	Z	14:08:30.6		
	e SS	E	14:14:21.7		
	e SSS	E	14:19:30.6		
	e LR	Z	14:39:41.0		
CLZ	e PKPdf	Z	13:53:32.4	138.0	35.4
	e SKPdf	Z	13:57:03.3		
	e sSKPdf	Z	13:57:35.1		
TANN	e SKPdf	Z	13:57:04.2	138.3	39.1
MOX	e PKPdf	Z	13:53:33.4	138.5	37.8
	e SKPdf	Z	13:57:04.4		
IBBN	e SKPdf	Z	13:57:04.2	138.5	31.5
MANZ	e PKPdf	Z	13:53:33.8	138.8	39.0
	e SKPdf	Z	13:57:05.5		
ROTZ	e SKPdf	Z	13:57:05.9	138.9	39.3
UBBA	e PKPdf	Z	13:53:34.0	139.0	35.5
	e SKPdf	Z	13:57:05.7		
GEC2	e PKPdf	Z	13:53:32.6	139.0	41.9
	e SKPdf	Z	13:57:05.9		
WET	e PKPdf	Z	13:53:34.8	139.1	40.6
	e SKPdf	Z	13:57:06.4		
	e sSKPdf	Z	13:57:38.5		
GRA1	e PKPdf	Z	13:53:35.1	139.4	38.0
	e SKPdf	Z	13:57:07.1		
	e SS	T	14:14:43.9		
	e SSS	T	14:19:52.7		
FUR	e SKPdf	Z	13:57:10.0	140.6	39.2
STU	e PKPdf	Z	13:53:38.6	140.9	35.8
	e SKPdf	Z	13:57:10.9		
WLF	e PKPdf	Z	13:53:34.2	141.3	30.9
	e SKPdf	Z	13:57:12.3		
BFO	e PKPdf	Z	13:53:35.9	141.6	34.9
	e SKPdf	Z	13:57:12.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/25	20:02:18.9	28.527N	56.505E	33.0N	4.7			SZGRF
Southern Iran								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:09:34.8	38.4	106.0	1.6	18	4.6		
WET	e P	Z	20:09:41.5	39.0	105.5	1.4	16	4.5		
CLL	e P	Z	20:09:46.8	39.5	108.2	1.7	32	4.7		
ROTZ	e P	Z	20:09:47.0	39.6	105.6	1.5	25	4.6		
MANZ	e P	Z	20:09:48.8	39.7	105.8	1.6	16	4.4		
	e PcP	Z	20:11:54.0							
GRA1	e P	Z	20:09:52.2	40.2	104.6	1.5	35	4.8		
	e PcP	Z	20:11:55.3							
CLZ	e P	Z	20:10:01.7	41.3	106.2	1.5	53	5.0		
BSEG	e P	Z	20:10:07.2	41.9	108.4	1.3	26	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	00:03:1.8	34.750N	134.000E	55.2	4.8	4.5		SZGRF

Near south coast of western Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	00:15:03.8	79.5	46.3	2.9	60	5.0		
	e sP	Z	00:15:25.3							
CLL	e P	Z	00:15:04.1	79.6	45.7	1.1	10	4.7		
CLZ	e P	Z	00:15:08.8	80.4	43.9	1.1	9	4.7		
TANN	e P	Z	00:15:09.3	80.5	45.2	1.4	6	4.4		
MOX	e P	Z	00:15:10.1	80.7	44.7	1.2	5	4.4		
MANZ	e P	Z	00:15:11.6	80.9	44.9	1.1	7	4.6		
GEC2	e P	Z	00:15:11.6	81.0	45.9	1.3	9	4.6		
ROTZ	e P	Z	00:15:12.4	81.1	45.0	1.5	15	4.8		
WET	e P	Z	00:15:12.8	81.2	45.4	1.2	6	4.5		
	e sP	Z	00:15:35.2							
GRA1	e P	Z	00:15:15.4	81.6	44.3	1.4	27	5.2		
	e pP	Z	00:15:30.9							
	e sP	Z	00:15:37.5							
	e L	Z	00:54:00.4			19.9	212		4.5	
FUR	e P	Z	00:15:20.7	82.6	44.2	1.1	24	5.3		
	e pP	Z	00:15:36.4							
STU	e P	Z	00:15:22.8	83.1	42.8	0.8	13	5.2		
	e pP	Z	00:15:38.9							
BFO	e P	Z	00:15:26.5	83.8	42.2	1.4	21	5.2		
	e pP	Z	00:15:41.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	01:06:48.5	11.910S	12.060W	33.0N	5.0			SZGRF

Ascension Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BFO	e P	Z	01:17:10.1	62.9	202.5	2.2	42	5.3
GEC2	e P	Z	01:17:23.3	64.9	208.0	1.0	5	4.7
WET	e P	Z	01:17:23.4	64.9	207.1	1.1	7	4.8
GRA1	e P	Z	01:17:23.8	64.9	205.3	1.0	7	4.8
ROTZ	e P	Z	01:17:25.6	65.3	206.3	1.1	7	4.8
MANZ	e P	Z	01:17:26.9	65.4	206.1	1.3	9	4.8
MOX	e P	Z	01:17:29.5	65.9	205.5	1.1	7	4.8
TANN	e P	Z	01:17:29.9	65.9	206.4	1.2	8	4.8
CLZ	e P	Z	01:17:34.9	66.6	204.0			
BRG	e P	Z	01:17:35.5	66.7	207.8	2.4	31	5.1
BSEG	e P	Z	01:17:46.7	68.5	203.6	0.2	14	5.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	04:03:32.9	27.983N	56.094E	33.0N	4.3			SZGRF
Southern Iran								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:10:52.4	38.5	107.0					
CLL	e P	Z 04:11:02.8	39.7	109.2					
ROTZ	e P	Z 04:11:02.5	39.7	106.6					
MANZ	e P	Z 04:11:03.6	39.8	106.8					
GRA1	e P	Z 04:11:07.4	40.3	105.6	1.3	11	4.3		
CLZ	e P	Z 04:11:17.4	41.4	107.1					
BSEG	e P	Z 04:11:22.5	42.1	109.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	04:59:39.6	28.790N	56.395E	33.0N	4.5			SZGRF
Southern Iran								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:06:55.4	38.1	105.8	1.0	6	4.3		
BRG	e P	Z 05:06:59.7	38.6	108.5	1.0	9	4.3		
WET	e P	Z 05:07:00.1	38.7	105.3	1.3	11	4.3		
CLL	e P	Z 05:07:05.7	39.3	108.0	0.9	6	4.2		
ROTZ	e P	Z 05:07:05.7	39.3	105.4	1.0	8	4.3		
MANZ	e P	Z 05:07:06.7	39.4	105.6	1.3	7	4.2		
GRA1	e P	Z 05:07:10.9	39.9	104.4	1.0	17	4.6		
MOX	e P	Z 05:07:11.0	39.9	105.9	1.1	7	4.2		
CLZ	e P	Z 05:07:20.5	41.0	106.0	1.2	26	4.8		
STU	e P	Z 05:07:18.5	41.0	101.5	0.7	13	4.8		
BSEG	e P	Z 05:07:25.9	41.7	108.2	1.0	14	4.7		
IBBN	e P	Z 05:07:34.5	42.7	104.0	1.3	29	4.9		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	05:23:45.8	15.500N	96.100E	10.0	4.6	4.6		NEIC

Near south coast of Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PcP	Z	05:35:30.1	73.1	86.0					
GEC2	e PcP	Z	05:35:31.8	73.4	85.2					
CLL	e P	Z	05:35:20.6	73.7	85.4	1.5	10	4.6		
WET	e P	Z	05:35:21.0	73.9	84.7	1.4	11	4.7		
ROTZ	e PcP	Z	05:35:38.4	74.3	84.4					
GRA1	e PcP	Z	05:35:41.3	75.0	83.6					
	e L	Z	06:13:31.5			18.0	248		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	09:39:54.2	18.951S	173.068E	21.0		5.0		SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	09:59:23.6	144.0	33.3					
BRG	e PKPbc	Z	09:59:24.0	144.1	35.0					
FBE	e PKPbc	Z	09:59:24.4	144.2	34.1					
CLZ	e PKPbc	Z	09:59:25.2	144.4	28.9					
TANN	e PKPbc	Z	09:59:26.7	145.0	33.2					
WERD	e PKPbc	Z	09:59:26.8	145.0	32.9					
GUNZ	e PKPbc	Z	09:59:27.5	145.1	33.0					
MOX	e PKPbc	Z	09:59:26.9	145.1	31.7					
WERN	e PKPbc	Z	09:59:27.7	145.1	33.1					
NKC	e PKPbc	Z	09:59:27.3	145.1	33.3					
UBBA	e PKPbc	Z	09:59:28.2	145.4	29.0					
MANZ	e PKPbc	Z	09:59:28.6	145.4	33.0					
ROTZ	e PKPbc	Z	09:59:29.1	145.6	33.3					
GEC2	e PKPbc	Z	09:59:29.3	145.8	36.4					
WET	e PKPbc	Z	09:59:29.8	145.9	34.8					
GRA1	e PKPbc	Z	09:59:30.8	146.0	31.8					
	e pPKPbc	Z	09:59:37.1							
	e L	Z	11:02:52.0			21.6	281		5.0	
FUR	e PKPbc	Z	09:59:34.6	147.3	33.1					
STU	e PKPbc	Z	09:59:34.9	147.5	29.2					
WLF	e PKPbc	Z	09:59:35.7	147.5	23.5					
BFO	e PKPbc	Z	09:59:36.6	148.1	28.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/26	10:00:42.8	19.094S	172.683E	33.0N		5.1		SZGRF

Vanuatu Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z	10:20:13.6	144.4	29.6					
TANN	e PKPbc	Z	10:20:14.7	145.0	33.8					
WERD	e PKPbc	Z	10:20:14.7	145.0	33.6					
GUNZ	e PKPbc	Z	10:20:15.3	145.0	33.7					
MOX	e PKPbc	Z	10:20:14.7	145.1	32.4					
WERN	e PKPbc	Z	10:20:15.4	145.1	33.8					
MANZ	e PKPbc	Z	10:20:16.4	145.4	33.6					
ROTZ	e PKPbc	Z	10:20:17.0	145.6	34.0					
GEC2	e PKPbc	Z	10:20:17.4	145.8	37.1					
WET	e PKPbc	Z	10:20:17.8	145.9	35.5					
GRA1	e PKPbc	Z	10:20:18.6	146.0	32.5					
	e L	Z	11:21:35.5			21.1	314		5.1	
GRFO	e PKPbc	Z	10:20:18.8	146.0	32.5					
WLF	e PKPbc	Z	10:20:23.5	147.6	24.2					
BFO	e PKPbc	Z	10:20:24.3	148.1	28.9					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/26 12:23:33.9 46.674N 153.485E 33.0N 5.0 4.5  
 Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:35:10.2	74.6	25.2	1.2	14	4.9		
CLL	e P	Z	12:35:19.0	76.3	26.7	1.1	24	5.1		
BRG	e P	Z	12:35:19.8	76.4	27.3	1.4	9	4.6		
CLZ	e P	Z	12:35:21.3	76.5	25.1	1.3	25	5.2		
FBE	e P	Z	12:35:21.0	76.5	26.9	1.3	24	5.2		
IBBN	e P	Z	12:35:22.7	76.8	23.4	1.4	44	5.4		
TANN	e P	Z	12:35:25.2	77.2	26.3	2.0	21	4.9		
WERD	e P	Z	12:35:25.0	77.3	26.2	1.4	13	4.9		
MOX	e P	Z	12:35:25.0	77.3	25.7	1.1	12	5.0		
GUNZ	e P	Z	12:35:25.6	77.3	26.2	1.3	16	5.0		
WERN	e P	Z	12:35:26.0	77.4	26.2	1.4	18	5.0		
UBBA	e P	Z	12:35:26.5	77.6	24.7	2.1	47	5.2		
BUG	e P	Z	12:35:27.3	77.7	23.0	0.9	16	5.2		
MANZ	e P	Z	12:35:27.6	77.7	26.0	1.1	10	4.8		
ROTZ	e P	Z	12:35:28.6	77.9	26.0	1.0	12	5.0		
GRA1	e P	Z	12:35:30.8	78.2	25.4	0.8	21	5.3		
	e L	Z	13:12:23.5			20.0	203		4.5	
WET	e P	Z	12:35:30.9	78.3	26.4	1.3	20	5.1		
GEC2	e P	Z	12:35:30.6	78.3	26.9	1.0	8	4.8		
FUR	e P	Z	12:35:38.6	79.6	25.3	0.7	19	5.2		
BFO	e P	Z	12:35:41.6	80.3	23.4	1.0	14	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source

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2007/04/26 16:37:57.9  
Hokkaido, Japan, region

43.099N

144.556E

36.5

5.2

4.8

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	16:49:30.2	73.9	34.9	1.0	50	5.5		
BSEG	e P	Z	16:49:38.6	75.4	32.7	1.4	44	5.4		
RUE	e P	Z	16:49:38.9	75.4	34.8	1.7	99	5.7		
CLL	e P	Z	16:49:45.2	76.7	34.2	1.0	34	5.4		
BRG	e P	Z	16:49:45.6	76.7	34.7	1.3	17	5.0		
	e sP	Z	16:50:01.5							
FBE	e P	Z	16:49:46.7	76.9	34.3	0.9	19	5.2		
CLZ	e P	Z	16:49:48.5	77.1	32.5	1.5	55	5.5		
IBBN	e P	Z	16:49:50.7	77.6	30.8	1.4	48	5.5		
TANN	e P	Z	16:49:50.7	77.6	33.7	1.2	7	4.7		
WERD	e P	Z	16:49:51.0	77.6	33.6	1.7	22	5.0		
	e sP	Z	16:50:06.6							
GUNZ	e P	Z	16:49:51.3	77.7	33.6	0.9	12	5.0		
MOX	e P	Z	16:49:51.3	77.7	33.2	0.9	13	5.0		
WERN	e P	Z	16:49:51.6	77.7	33.6	1.4	24	5.1		
	e sP	Z	16:50:07.3							
MANZ	e P	Z	16:49:53.4	78.1	33.4	1.3	16	5.0		
UBBA	e P	Z	16:49:53.3	78.1	32.1	1.7	24	5.0		
ROTZ	e P	Z	16:49:54.5	78.2	33.5	2.2	81	5.4		
GEC2	e P	Z	16:49:55.2	78.5	34.3	1.5	17	4.9		
BUG	e P	Z	16:49:55.4	78.5	30.4	1.4	37	5.2		
WET	e P	Z	16:49:56.1	78.5	33.8	1.1	24	5.1		
GRA1	e P	Z	16:49:57.0	78.6	32.8	1.4	59	5.4		
	e sP	Z	16:50:12.0							
	e L	Z	17:28:35.8			19.4	452		4.8	
FUR	e P	Z	16:50:03.7	79.9	32.7	1.1	41	5.3		
STU	e P	Z	16:50:04.5	80.1	31.4	0.9	26	5.1		
BFO	e P	Z	16:50:08.0	80.8	30.8	1.8	47	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/27 08:02:51.1 5.730N 94.440E 33.0N 6.3 5.3 ML SZGRF  
 Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:14:55.5	79.6	93.8	1.8	623	6.2		
GEC2	e P	Z	08:14:55.8	79.6	93.2	1.2	449	6.4		
RUE	e P	Z	08:14:56.3	79.8	93.9	1.8	1242	6.6		
FBE	e P	Z	08:14:57.5	79.9	93.3	1.7	738	6.4		
WET	e P	Z	08:14:58.7	80.2	92.6	1.9	706	6.4		
CLL	e P	Z	08:14:58.3	80.2	93.1	1.6	319	6.1		
RGN	e P	Z	08:14:58.7	80.2	93.9	1.8	751	6.4		
TANN	e P	Z	08:15:00.3	80.5	92.5	1.7	301	6.1		
WERN	e P	Z	08:15:00.7	80.5	92.4	1.7	238	5.9		



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GUNZ	e P	Z	08:15:00.8	80.6	92.4	1.6	324	6.1		
WERD	e P	Z	08:15:00.7	80.6	92.4	1.6	317	6.1		
ROTZ	e P	Z	08:15:01.4	80.6	92.2	1.7	569	6.4		
MANZ	e P	Z	08:15:01.9	80.7	92.2	1.5	503	6.4		
MOX	e P	Z	08:15:03.1	81.0	91.9	1.8	474	6.3		
FUR	e P	Z	08:15:03.6	81.2	91.3	1.7	691	6.5		
GRA1	e P	Z	08:15:04.8	81.2	91.5	1.5	561	6.5		
	e S	T	08:25:13.6							
	e L	Z	08:58:03.7			20.1	1380		5.3	
CLZ	e P	Z	08:15:07.4	81.8	91.1	1.7	492	6.5		
BSEG	e P	Z	08:15:07.9	81.9	91.4	1.6	563	6.6		
UBBA	e P	Z	08:15:08.5	82.1	90.7	2.1	474	6.4		
STU	e P	Z	08:15:11.0	82.6	89.8	1.9	660	6.5		
BFO	e P	Z	08:15:13.6	83.1	89.1	1.1	122	6.1		
HLG	e P	Z	08:15:15.3	83.3	89.4	1.5	352	6.4		
IBBN	e P	Z	08:15:15.8	83.4	89.1	1.8	810	6.7		
BUG	e P	Z	08:15:17.3	83.8	88.6	1.7	558	6.5		
WLF	e P	Z	08:15:21.6	84.5	87.6	1.7	538	6.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/27	13:20:15.9	18.920S	178.000W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 13:39:46.8	144.4	13.6					
CLZ	e PKPbc	Z 13:39:53.4	146.4	14.4					
CLL	e PKPbc	Z 13:39:53.2	146.5	19.1					
BRG	e PKPbc	Z 13:39:54.1	146.7	20.9					
FBE	e PKPbc	Z 13:39:54.4	146.8	19.9					
	e PKPab	Z 13:39:56.2							
TANN	e PKPbc	Z 13:39:56.0	147.4	18.6					
	e PKPab	Z 13:39:58.3							
WERD	e PKPbc	Z 13:39:56.0	147.4	18.3					
	e PKPab	Z 13:39:58.0							
GUNZ	e PKPbc	Z 13:39:56.5	147.5	18.4					
	e PKPab	Z 13:39:58.8							
WERN	e PKPbc	Z 13:39:56.6	147.6	18.5					
	e PKPab	Z 13:39:59.4							
MANZ	e PKPbc	Z 13:39:57.4	147.9	18.2					
ROTZ	e PKPbc	Z 13:39:58.2	148.1	18.5					
GRA1	e PKPbc	Z 13:39:58.9	148.4	16.8					
GEC2	e PKPbc	Z 13:39:59.3	148.6	21.6					
WLF	e PKPbc	Z 13:40:00.8	149.1	7.7					
FUR	e PKPbc	Z 13:40:02.6	149.8	17.6					
BFO	e PKPbc	Z 13:40:03.1	150.1	12.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/27	13:49:28.3	7.000S	156.000E	46.0		5.4		NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKP	Z	14:08:24.1	125.1	48.0					
	e pPKP	Z	14:08:37.5							
BSEG	e PKP	Z	14:08:24.8	125.5	43.4					
BRG	e PKP	Z	14:08:25.8	126.0	49.0					
CLL	e PKP	Z	14:08:25.8	126.2	47.8					
	e pPKP	Z	14:08:39.3							
FBE	e PKP	Z	14:08:26.3	126.3	48.3					
	e pPKP	Z	14:08:39.6							
CLZ	e PKP	Z	14:08:27.7	127.0	44.6					
TANN	e PKP	Z	14:08:27.4	127.1	47.7					
WERD	e PKP	Z	14:08:28.0	127.1	47.5					
	e pPKP	Z	14:08:41.5							
GUNZ	e pPKP	Z	14:08:41.7	127.2	47.5					
WERN	e PKP	Z	14:08:28.2	127.2	47.6					
MOX	e PKP	Z	14:08:28.2	127.3	46.6					
	e pPKP	Z	14:08:41.6							
GEC2	e PKP	Z	14:08:28.4	127.5	49.9					
	e pPKP	Z	14:08:42.0							
MANZ	e PKP	Z	14:08:28.4	127.5	47.5					
	e pPKP	Z	14:08:42.2							
ROTZ	e pPKP	Z	14:08:42.5	127.6	47.7					
WET	e PKP	Z	14:08:28.8	127.7	48.8					
	e pPKP	Z	14:08:42.8							
UBBA	e PKP	Z	14:08:28.9	127.9	44.7					
	e pPKP	Z	14:08:42.7							
GRA1	e PKP	Z	14:08:29.6	128.1	46.7					
	e pPKP	Z	14:08:43.1							
	e L	Z	15:07:54.0			21.9	784		5.4	
WLF	e PKP	Z	14:08:34.4	130.4	40.9					
	e pPKP	Z	14:08:48.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/27	17:21: 9.7	20.470S	170.070E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TANN	e PKPbc	Z	17:40:43.3	145.2	38.7					
WERD	e PKPbc	Z	17:40:43.3	145.3	38.5					
GUNZ	e PKPbc	Z	17:40:43.8	145.3	38.6					
IBBN	e PKPbc	Z	17:40:43.6	145.3	30.0					
WERN	e PKPbc	Z	17:40:43.9	145.4	38.7					

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MOX	e	PKPbc	Z	17:40:43.5	145.4	37.3
MANZ	e	PKPbc	Z	17:40:44.9	145.7	38.6
ROTZ	e	PKPbc	Z	17:40:45.2	145.8	39.0
UBBA	e	PKPbc	Z	17:40:45.2	145.8	34.7
GEC2	e	PKPbc	Z	17:40:45.2	145.9	42.1
BUG	e	PKPbc	Z	17:40:46.1	146.2	29.9
GRA1	e	PKPbc	Z	17:40:46.9	146.3	37.5
FUR	e	PKPbc	Z	17:40:50.1	147.5	39.1
STU	e	PKPbc	Z	17:40:51.2	147.8	35.2
WLF	e	PKPbc	Z	17:40:52.5	148.1	29.4
BFO	e	PKPbc	Z	17:40:52.4	148.5	34.2
	e	PKPab	Z	17:40:55.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/27

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:57:11.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/27	22:43:57.7	40.563N	144.121E	33.0N	4.6			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:56:08.0	80.7	34.3	0.8	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/27

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:11:40.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/27	23:48: 3.6	53.857N	161.287E	33.0N	4.6			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:59:33.0	73.4	17.9	1.1	6	4.6		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	03:40: 5.1	19.000S	172.900W	36.0				NEIC

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:59:49.8	149.1	7.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	07:18:11.5	51.226N	1.112E	10.0G			5.0	SZGRF

United Kingdom

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pn	Z 07:19:07.0	3.6	297.9					5.1
BUG	e Pn	Z 07:19:10.6	3.9	269.2					5.0
IBBN	e Pn	Z 07:19:16.4	4.3	257.9					5.0
	e Sn	N 07:20:05.2							
HLG	e Pn	Z 07:19:27.6	5.1	236.9					
	e Sn	N 07:20:23.6							
UBBA	e Pn	Z 07:19:34.0	5.6	277.6					
CLZ	e Pn	Z 07:19:36.4	5.8	267.5					
	e Sn	N 07:20:41.8							
BSEG	e Pn	Z 07:19:43.6	6.2	247.9					
GRA1	e Pn	Z 07:19:49.0	6.6	287.3					
MUD	e Pn	Z 07:19:54.5	7.1	225.6					
BSD	e Pn	Z 07:20:21.2	9.1	250.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	13:25: 6.2	25.868N	140.864E	33.0N	4.8			SZGRF

Volcano Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PP	Z 13:41:48.7	90.2	46.0					
MOX	e PP	Z 13:41:56.4	91.4	44.2					
GRA1	e P	Z 13:38:13.0	92.2	43.9	1.8	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	13:56:37.4	17.200N	99.600W	35.0	4.5			NEIC

Guerrero, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:09:32.2	89.7	296.8	1.2	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	14:02:38.0	60.700S	20.200W	10.0		5.6		NEIC

East of South Sandwich Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 14:21:47.0	113.3	196.1					
	e L	Z 15:03:38.2			20.7	1452		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 14:56:56.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	17:06:22.7	33.810N	97.880E	33.0N	5.1			SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:16:33.7	60.9	71.1	0.8	12	4.8		
FBE	e P	Z 17:16:36.2	61.2	70.7	1.1	15	4.7		
CLL	e P	Z 17:16:36.4	61.3	70.7	1.1	13	4.7		
GEC2	e P	Z 17:16:39.4	61.7	69.9	0.8	8	5.0		
TANN	e P	Z 17:16:40.8	61.9	69.9	1.0	9	5.0		
BSEG	e P	Z 17:16:41.1	61.9	70.2	1.4	20	5.2		
WERD	e P	Z 17:16:41.2	62.0	69.8	1.1	11	5.0		
WERN	e P	Z 17:16:41.5	62.0	69.8	1.4	22	5.2		
GUNZ	e P	Z 17:16:41.5	62.0	69.8	0.9	13	5.2		
WET	e P	Z 17:16:42.1	62.1	69.5	0.8	8	5.0		
MANZ	e P	Z 17:16:43.4	62.3	69.4	1.1	10	5.0		
ROTZ	e P	Z 17:16:43.6	62.3	69.4	0.9	18	5.3		
MOX	e P	Z 17:16:43.6	62.3	69.4	1.2	10	4.8		
CLZ	e P	Z 17:16:46.0	62.6	69.2	1.1	18	5.1		
GRA1	e P	Z 17:16:47.8	62.9	68.7	0.9	20	5.3		
UBBA	e P	Z 17:16:49.4	63.2	68.5	1.1	4	4.5		
FUR	e P	Z 17:16:51.6	63.4	68.0	0.9	42	5.7		
STU	e P	Z 17:16:57.6	64.5	67.0	0.8	16	5.3		
BFO	e P	Z 17:17:01.9	65.2	66.3	1.2	16	5.1		
WLF	e P	Z 17:17:07.8	65.9	65.5	1.0	30	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	19:14:37.1	1.197N	96.669E	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 19:27:15.3	86.1	92.7	1.2	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	19:30:1.4	57.239N	137.787W	33.0N	4.5			SZGRF

Off coast of southeastern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:41:10.4	70.1	342.8	1.0	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	20:11:46.7	40.010N	53.490E	52.8	5.0			SZGRF

Turkmenistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 20:17:48.0	29.4	96.1	0.7	26	5.2		
	e pP	Z 20:18:01.5							
GEC2	e P	Z 20:17:47.6	29.4	92.3	0.6	9	4.7		
RUE	e P	Z 20:17:50.0	29.7	98.8	1.1	40	5.1		
FBE	e P	Z 20:17:51.5	29.7	95.7	1.6	34	4.9		
CLL	e P	Z 20:17:53.3	30.0	96.1	0.7	11	4.8		
TANN	e P	Z 20:17:56.0	30.3	94.1	0.8	13	4.8		
GUNZ	e P	Z 20:17:56.8	30.3	93.9	0.8	12	4.8		
WERD	e P	Z 20:17:56.9	30.4	94.0	0.7	17	5.0		
MOX	e P	Z 20:18:01.0	30.8	93.7	0.9	35	5.3		
	e pP	Z 20:18:14.4							
FUR	e P	Z 20:18:01.9	31.0	89.3	0.6	14	5.1		
GRA1	e P	Z 20:18:02.6	31.0	91.8	0.7	8	4.7		
CLZ	e P	Z 20:18:08.6	31.7	94.6	0.8	17	5.0		
UBBA	e P	Z 20:18:09.9	31.9	92.7	0.7	12	4.9		
BSEG	e P	Z 20:18:10.6	31.9	97.9	0.9	28	5.2		
STU	e P	Z 20:18:14.1	32.3	88.8	0.9	39	5.3		
	e pP	Z 20:18:27.5							
IBBN	e P	Z 20:18:22.7	33.3	93.1	0.7	28	5.3		
BUG	e P	Z 20:18:25.1	33.6	91.4	0.7	13	5.0		
WLF	e P	Z 20:18:31.6	34.3	87.9	0.9	22	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	20:12:3.4	49.130N	154.520E	27.0	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	20:23:40.4	74.3	25.0	0.9	16	5.0		
CLZ	e P	Z	20:23:42.5	74.5	23.4	1.3	27	5.1		
FBE	e P	Z	20:23:42.4	74.6	25.2	1.0	12	4.9		
TANN	e P	Z	20:23:46.5	75.3	24.6					
WERD	e P	Z	20:23:46.4	75.3	24.5	1.3	8	4.7		
MOX	e P	Z	20:23:46.4	75.3	24.1	1.3	16	5.0		
GUNZ	e P	Z	20:23:46.7	75.4	24.5	1.0	10	4.9		
WERN	e P	Z	20:23:47.5	75.4	24.5					
UBBA	e P	Z	20:23:47.8	75.6	23.1	0.8	4	4.6		
MANZ	e P	Z	20:23:49.1	75.8	24.3					
ROTZ	e P	Z	20:23:50.1	75.9	24.4	1.0	9	4.9		
GRA1	e P	Z	20:23:52.4	76.3	23.7	1.1	22	5.2		
WET	e P	Z	20:23:52.8	76.3	24.7					
BFO	e P	Z	20:24:03.0	78.3	21.8	1.2	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	20:12:49.6	48.500N	155.500E	49.3	5.5			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:24:20.7	73.4	23.2	1.0	48	5.5		
RUE	e P	Z	20:24:22.7	73.9	25.3	1.1	81	5.7		
CLL	e P	Z	20:24:29.4	75.2	24.7	1.1	82	5.8		
	e pP	Z	20:24:43.8							
BRG	e P	Z	20:24:30.6	75.3	25.2	1.2	42	5.4		
CLZ	e P	Z	20:24:31.3	75.3	23.1	1.2	89	5.8		
FBE	e P	Z	20:24:31.5	75.4	24.8	1.0	62	5.7		
	e pP	Z	20:24:45.8							
IBBN	e P	Z	20:24:32.1	75.5	21.4	1.2	62	5.6		
TANN	e P	Z	20:24:35.7	76.1	24.2	1.0	16	5.1		
MOX	e P	Z	20:24:35.4	76.1	23.7	1.2	47	5.5		
WERD	e P	Z	20:24:35.7	76.1	24.1	1.2	43	5.4		
	e pP	Z	20:24:50.1							
GUNZ	e P	Z	20:24:36.1	76.2	24.1	1.1	38	5.4		
WERN	e P	Z	20:24:36.6	76.3	24.2	1.0	43	5.5		
	e pP	Z	20:24:51.0							
UBBA	e P	Z	20:24:36.6	76.4	22.7	1.6	63	5.5		
BUG	e P	Z	20:24:37.3	76.4	21.0	1.1	46	5.5		
	e pP	Z	20:24:51.7							
MANZ	e P	Z	20:24:38.3	76.6	24.0	1.1	34	5.4		
ROTZ	e P	Z	20:24:39.5	76.8	24.0	1.1	50	5.6		
GRA1	e P	Z	20:24:41.4	77.1	23.4	1.1	100	5.8		
	e pP	Z	20:24:54.6							
WET	e P	Z	20:24:41.9	77.2	24.4	1.1	68	5.7		
GEC2	e P	Z	20:24:41.5	77.2	24.8	1.2	35	5.3		
STU	e P	Z	20:24:48.5	78.5	22.0	1.3	51	5.4		

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FUR	e P	Z	20:24:49.2	78.5	23.3	1.2	85	5.6
BFO	e P	Z	20:24:52.0	79.1	21.5	1.2	39	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28	21:22:59.9	28.453N	56.263E	33.0N	4.2			SZGRF
Southern Iran								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:30:32.4	40.1	104.9	1.2	8	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:23:58.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	02:57:39.9	4.800S	153.400E	73.0				NEIC
New Ireland, Papua New Guinea, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:16:32.3	125.0	48.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	03:44:30.5	8.300S	157.100E	10.0		5.1		NEIC
Bougainville - Solomon Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 04:03:40.2	129.8	46.3					
	e L	Z 05:04:59.5			19.5	363		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	06:33:58.6	24.840N	60.790E	31.2	4.8			SZGRF
Gulf of Oman								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 06:42:01.5	43.7	105.9	1.3	16	4.6		
	e pP	Z 06:42:10.1							
BRG	e P	Z 06:42:04.9	44.1	108.1	1.3	4	4.0		



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WET	e P	Z	06:42:05.9	44.3	105.4	1.3	7	4.2
RUE	e P	Z	06:42:09.3	44.8	109.5	1.3	19	4.9
CLL	e P	Z	06:42:10.7	44.8	107.6	1.1	33	5.2
	e pP	Z	06:42:18.9					
ROTZ	e P	Z	06:42:11.1	44.9	105.4	1.1	12	4.7
WERN	e P	Z	06:42:11.5	44.9	106.0	0.9	4	4.3
MANZ	e P	Z	06:42:12.2	45.0	105.5	1.2	3	4.2
FUR	e P	Z	06:42:12.1	45.1	103.0	1.3	17	4.8
GRA1	e P	Z	06:42:16.1	45.5	104.4	1.4	43	5.3
	e pP	Z	06:42:24.5					
MOX	e P	Z	06:42:15.8	45.5	105.6	1.1	9	4.7
UBBA	e P	Z	06:42:24.2	46.5	104.3	1.4	8	4.7
CLZ	e P	Z	06:42:24.5	46.6	105.6	1.1	25	5.2
	e pP	Z	06:42:32.6					
STU	e P	Z	06:42:23.4	46.6	101.7	1.0	10	4.9
BSEG	e P	Z	06:42:28.6	47.2	107.4	1.8	31	5.1
	e pP	Z	06:42:37.0					
IBBN	e P	Z	06:42:37.3	48.2	103.6	1.2	22	5.2
WLF	e P	Z	06:42:41.0	48.7	99.8	1.1	12	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	06:32:25.9	20.720S	179.090W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 06:52:07.7	148.0	21.7					
	e PKPab	Z 06:52:10.5							
BRG	e PKPbc	Z 06:52:08.0	148.2	23.6					
TANN	e PKPbc	Z 06:52:10.7	148.9	21.3					
WERD	e PKPbc	Z 06:52:10.5	148.9	21.0					
GUNZ	e PKPbc	Z 06:52:10.2	149.0	21.1					
	e PKPab	Z 06:52:15.1							
WERN	e PKPab	Z 06:52:15.6	149.1	21.2					
MANZ	e PKPbc	Z 06:52:11.3	149.4	20.9					
GRA1	e PKPbc	Z 06:52:12.5	149.9	19.5					
WLF	e PKPbc	Z 06:52:15.2	150.8	10.1					
	e PKPab	Z 06:52:22.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	12:41:58.2	51.780N	181.570W	128.6	6.1			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 12:53:15.6	73.0	9.6	1.2	502	6.5		
HLG	e P	Z 12:53:20.1	73.7	6.1	1.5	595	6.4		

BSEG	e P	Z	12:53:20.6	73.8	7.6	1.6	487	6.3
	e pP	Z	12:53:53.0					
RUE	e P	Z	12:53:26.8	74.9	9.8	1.5	316	6.1
	e pP	Z	12:53:59.2					
IBBN	e P	Z	12:53:30.7	75.6	5.9	1.5	681	6.6
	e pP	Z	12:54:02.0					
CLZ	e P	Z	12:53:32.6	75.9	7.6	1.4	394	6.4
CLL	e P	Z	12:53:33.5	76.2	9.2	1.7	284	6.1
	e pP	Z	12:54:05.6					
	e PP	Z	12:56:32.1					
	e pPP	Z	12:56:49.8					
	e pPPP	Z	12:58:44.9					
	e S	E	13:03:06.2					
	e SKSac	Z	13:03:36.3					
	e sS	E	13:04:00.6					
	e SS	E	13:08:06.2					
	e sSS	E	13:08:55.6					
	e SSS	E	13:11:30.8					
	e PKPPKPdf	Z	13:20:43.3					
	e SKPPKPdf	Z	13:24:10.9					
BRG	e P	Z	12:53:35.5	76.5	9.8	1.5	192	6.0
FBE	e P	Z	12:53:35.8	76.5	9.4	1.4	338	6.3
	e pP	Z	12:54:07.8					
UBBA	e P	Z	12:53:38.0	76.9	7.3	1.7	261	6.1
	e pP	Z	12:54:09.8					
MOX	e P	Z	12:53:38.3	77.0	8.3	1.6	239	6.1
WERD	e P	Z	12:53:39.1	77.1	8.8	1.6	213	6.0
TANN	e P	Z	12:53:39.3	77.1	8.9	1.6	225	6.0
	e pP	Z	12:54:11.2					
GUNZ	e P	Z	12:53:39.7	77.2	8.8	1.6	282	6.1
	e pP	Z	12:54:11.9					
WERN	e P	Z	12:53:40.1	77.2	8.8	1.1	152	6.0
	e pP	Z	12:54:12.5					
MANZ	e P	Z	12:53:41.7	77.6	8.6	1.5	116	5.8
ROTZ	e P	Z	12:53:43.0	77.8	8.7	1.5	183	6.0
	e pP	Z	12:54:15.3					
GRA1	e P	Z	12:53:44.2	77.9	8.1	1.4	398	6.3
	e pP	Z	12:54:16.0					
	e PKPPKP	Z	13:20:27.5					
WET	e P	Z	12:53:46.2	78.3	9.1	1.6	186	5.9
WLF	e P	Z	12:53:46.2	78.3	4.9	1.5	219	6.0
	e pP	Z	12:54:18.7					
GEC2	e P	Z	12:53:47.2	78.5	9.6	1.6	206	5.9
STU	e P	Z	12:53:49.5	79.0	6.8	1.3	172	5.9
FUR	e P	Z	12:53:52.1	79.5	8.0	1.5	349	6.1
BFO	e P	Z	12:53:52.2	79.5	6.2	1.5	191	5.8

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/29

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e PKP	Z 13:23:28.5							
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/29 13:39:47.2  
Eastern Sea of Japan

45.960N 138.120E 33.0N 4.9

SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLL	e P	Z 13:51:08.4	71.9	36.7	1.0	15	5.1		
FBE	e P	Z 13:51:10.0	72.1	36.9	0.9	11	5.0		
CLZ	e P	Z 13:51:12.5	72.4	35.2	0.6	10	5.1		
WERD	e P	Z 13:51:14.4	72.8	36.2	0.7	6	4.8		
GUNZ	e P	Z 13:51:15.2	72.9	36.2	0.7	6	4.7		
MOX	e P	Z 13:51:15.1	72.9	35.8	0.7	4	4.6		
WERN	e P	Z 13:51:15.2	72.9	36.2	0.6	7	4.9		
MANZ	e P	Z 13:51:17.1	73.3	36.0	1.0	5	4.6		
ROTZ	e P	Z 13:51:18.2	73.4	36.0	0.9	6	4.6		
GEC2	e P	Z 13:51:18.9	73.6	36.7	0.7	3	4.4		
WET	e P	Z 13:51:19.7	73.7	36.3	0.8	7	4.7		
GRA1	e P	Z 13:51:21.2	73.8	35.4	0.8	20	5.2		
FUR	e P	Z 13:51:27.9	75.1	35.2	1.0	18	5.2		
STU	e P	Z 13:51:29.2	75.4	34.0	0.8	10	5.0		
BFO	e P	Z 13:51:32.9	76.0	33.4	0.9	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/29 17:08:52.4  
Bougainville - Solomon Islands region

6.800S 155.800E 10.0

NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e PKPdf	Z 17:27:53.1	125.3	43.6					
BRG	e PKPdf	Z 17:27:53.8	125.8	49.1					
CLL	e PKPdf	Z 17:27:54.1	125.9	47.9					
FBE	e PKPdf	Z 17:27:54.2	126.0	48.4					
CLZ	e PKPdf	Z 17:27:56.2	126.7	44.7					
WERD	e PKPdf	Z 17:27:55.7	126.8	47.6					
GUNZ	e PKPdf	Z 17:27:56.2	126.9	47.6					
GEC2	e PKPdf	Z 17:27:56.8	127.2	50.0					
MANZ	e PKPdf	Z 17:27:56.6	127.2	47.6					
ROTZ	e PKPdf	Z 17:27:56.9	127.3	47.8					
WET	e PKPdf	Z 17:27:57.4	127.4	48.9					
IBBN	e PKPdf	Z 17:27:57.8	127.5	41.5					
GRA1	e PKPdf	Z 17:27:58.0	127.9	46.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	17:22:53.0	2.800N	95.800E	43.0	4.6			NEIC

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:35:20.8	84.4	92.3	1.3	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	18:40: 7.3	16.400N	94.000E	13.0	4.5			NEIC

Near south coast of Myanmar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:51:37.7	72.9	84.6	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	19:43:34.4	3.304S	27.652E	33.0N	4.6			SZGRF

Zaire

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:53:01.9	54.9	159.8	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	20:41:28.5	29.193N	130.922E	33.0N	4.8			SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:53:59.5	84.7	49.6	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/29	22:55:48.3	52.120N	159.090E	33.0N	4.7			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:07:24.6	74.6	19.8	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/04/29 23:28:45.1  
Fiji Islands region

21.320S 177.120W 33.0N

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	23:48:23.8	146.9	12.8					
IBBN	e PKPab	Z	23:48:32.4	148.8	8.8					
CLZ	e PKPdf	Z	23:48:26.2	148.9	13.6					
	e PKPbc	Z	23:48:29.5							
CLL	e PKPbc	Z	23:48:29.5	149.0	18.5					
BRG	e PKPdf	Z	23:48:26.8	149.2	20.4					
	e PKPbc	Z	23:48:30.1							
FBE	e PKPbc	Z	23:48:30.4	149.3	19.4					
	e PKPab	Z	23:48:34.9							
MOX	e PKPbc	Z	23:48:31.9	149.9	16.4					
WERD	e PKPbc	Z	23:48:32.1	149.9	17.7					
TANN	e PKPdf	Z	23:48:27.8	149.9	18.0					
	e PKPbc	Z	23:48:32.2							
GUNZ	e PKPbc	Z	23:48:32.4	150.0	17.8					
	e PKPab	Z	23:48:37.8							
MANZ	e PKPbc	Z	23:48:33.3	150.4	17.6					
ROTZ	e PKPbc	Z	23:48:33.6	150.6	17.9					
GRA1	e PKPbc	Z	23:48:34.5	150.9	16.1					
GEC2	e PKPdf	Z	23:48:29.5	151.2	21.3					
	e PKPbc	Z	23:48:34.7							
STU	e PKPdf	Z	23:48:31.1	152.1	12.6					
	e PKPbc	Z	23:48:37.2							
FUR	e PKPab	Z	23:48:47.8	152.3	17.0					
BFO	e PKPbc	Z	23:48:38.4	152.6	11.1					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/30 00:26:22.2 14.800S 167.200E 195.0  
 Vanuatu Islands NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	00:45:23.3	140.0	37.8					
	e SKPdf	Z	00:48:51.9							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/30

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:45:48.6							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/30	04:04:29.4	18.460S	178.000W	562.0				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 04:22:59.5	143.9	13.5					
IBBN	e PKPbc	Z 04:23:05.6	145.9	9.8					
CLZ	e PKPbc	Z 04:23:06.2	146.0	14.3					
CLL	e PKPbc	Z 04:23:06.0	146.0	18.9					
BRG	e PKPbc	Z 04:23:06.8	146.2	20.7					
MOX	e PKPbc	Z 04:23:08.7	146.9	16.9					
TANN	e PKPbc	Z 04:23:08.9	147.0	18.4					
UBBA	e PKPbc	Z 04:23:08.5	147.0	14.0					
MANZ	e PKPbc	Z 04:23:10.2	147.5	18.0					
ROTZ	e PKPbc	Z 04:23:10.7	147.6	18.3					
GRA1	e PKPbc	Z 04:23:11.2	147.9	16.6					
WET	e PKPbc	Z 04:23:11.9	148.1	19.8					
GEC2	e PKPbc	Z 04:23:12.1	148.2	21.4					
WLF	e PKPbc	Z 04:23:13.9	148.6	7.6					
STU	e PKPbc	Z 04:23:14.6	149.1	13.4					
FUR	e PKPbc	Z 04:23:15.2	149.4	17.5					
BFO	e PKPbc	Z 04:23:15.3	149.7	12.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/30	12:37:53.0	7.200S	156.196E	10.0G				NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 12:56:55.5	126.3	48.9					
CLL	e PKPdf	Z 12:56:55.9	126.5	47.7					
TANN	e PKPdf	Z 12:56:55.8	127.3	47.6					
MOX	e PKPdf	Z 12:56:56.2	127.6	46.5					
GEC2	e PKPdf	Z 12:56:55.9	127.8	49.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/30								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 14:03:41.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/04/30	13:59:45.4	38.790N	97.470E	33.0G	5.2			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:09:33.8	57.2	67.1	1.3	20	5.0		
FBE	e P	Z	14:09:36.2	57.5	66.8	2.3	93	5.4		
CLL	e P	Z	14:09:36.0	57.6	66.8	1.5	16	4.8		
BSEG	e P	Z	14:09:40.1	58.0	66.6	1.4	18	4.9		
GEC2	e P	Z	14:09:40.7	58.2	65.8	1.9	36	5.1		
TANN	e P	Z	14:09:41.3	58.3	65.9	2.3	69	5.3		
WERD	e P	Z	14:09:41.7	58.3	65.8	2.8	103	5.4		
GUNZ	e P	Z	14:09:42.0	58.4	65.8	2.3	72	5.3		
WERN	e P	Z	14:09:42.0	58.4	65.8	1.5	18	4.9		
WET	e P	Z	14:09:43.4	58.5	65.5	2.2	71	5.3		
MANZ	e P	Z	14:09:44.1	58.6	65.5	2.2	53	5.2		
MOX	e P	Z	14:09:44.0	58.7	65.5	2.3	63	5.2		
ROTZ	e P	Z	14:09:44.4	58.7	65.4	1.4	27	5.1		
CLZ	e P	Z	14:09:45.6	58.9	65.4	1.7	34	5.1		
GRA1	e P	Z	14:09:48.8	59.3	64.8	2.4	202	5.7		
UBBA	e P	Z	14:09:49.7	59.5	64.6	1.9	31	5.0		
FUR	e P	Z	14:09:53.1	59.9	64.0	0.9	33	5.4		
IBBN	e P	Z	14:09:54.1	60.1	64.0	1.5	38	5.2		
STU	e P	Z	14:09:59.1	60.9	63.1	1.1	17	4.8		
BFO	e P	Z	14:10:03.7	61.6	62.4	1.5	22	5.2		
WLF	e P	Z	14:10:07.1	62.2	61.7	0.8	21	5.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/30 16:55: 4.9 31.594N 133.527E 33.0N 4.8  
 Southeast of Shikoku, Japan SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:07:32.2	84.0	46.4	1.4	9	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2007/04/30 17:41:50.2 15.773S 177.637W 368.0  
 Fiji Islands region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	18:00:39.2	143.7	19.0					
MOX	e PKPbc	Z	18:00:41.9	144.3	15.4					
TANN	e PKPbc	Z	18:00:40.8	144.4	16.9					
UBBA	e PKPbc	Z	18:00:41.0	144.4	12.7					
MANZ	e PKPbc	Z	18:00:42.2	144.9	16.5					
ROTZ	e PKPbc	Z	18:00:43.2	145.1	16.7					
GRA1	e PKPbc	Z	18:00:44.4	145.3	15.1					
WET	e PKPbc	Z	18:00:44.7	145.5	18.1					
GEC2	e PKPbc	Z	18:00:45.1	145.7	19.6					

WLF	e	PKPbc	Z	18:00:46.6	146.0	6.5
STU	e	PKPbc	Z	18:00:47.7	146.5	12.0
FUR	e	PKPbc	Z	18:00:49.0	146.8	15.8
BFO	e	PKPbc	Z	18:00:49.1	147.1	10.6

## Format description

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

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

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

## EPICENTER LINES:

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

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

## COMMENT LINE:

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

## REGION LINE:

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

## PHASE LINE:

Sta	Station code of the reported phase
-----	------------------------------------



Phase	Preceded flag for the sharpness of the onset of the phase
	e - emergent
	i - impulsive
	w - weak
	ISC phase code
	Component where the phase was picked
Time	Arrival time of the reported phase
Dist	Distance from the epicenter location with the highest priority to the station in kilometer
BAz	Backazimuth from the epicenter location with the highest priority to the station in degree
T[s]	Phase Period
A[nm]	Phase Amplitude
mb	Body wave magnitude
MS	Surface wave magnitude
ML	Local Richter magnitude