

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

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OCTOBER 2007 UPDATED 17.SEPTEMBER.2008

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	06:22:51.5	21.300S	169.400E	10.0				NEIC
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 06:42:33.7	146.8	39.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	06:35:38.5	44.047N	153.750E	48.1	5.0			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:47:46.9	80.7	26.3	1.0	15	5.0		
	e pP	Z 06:48:00.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	11:19:29.0	46.781N	154.820E	33.0N	5.0			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:31:27.3	78.5	24.5	0.8	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	13:50:24.4	3.200S	148.200E	10.0		6.1		NEIC
Bismarck Sea								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e SP	Z	14:20:11.6	118.8	49.8					
	e L	Z	15:01:42.0			21.3	2747		5.9	
BRG	e SP	Z	14:20:16.6	118.9	54.8					
	e L	Z	15:02:47.3			20.2	4830		6.1	
CLL	e SP	Z	14:20:17.5	119.1	53.6					
	e L	Z	15:01:18.0			21.6	5567		6.2	
CLZ	e SP	Z	14:20:23.3	120.1	50.8					
	e L	Z	15:04:58.6			19.4	3658		6.0	
GEC2	e L	Z	15:02:06.0	120.2	55.5	21.0	4943		6.1	
MOX	e SP	Z	14:20:30.9	120.2	52.6					
	e L	Z	15:02:00.9			21.5	5242		6.1	
ROTZ	e L	Z	15:03:34.6	120.4	53.6	19.3	4381		6.1	
WET	e L	Z	15:02:54.3	120.4	54.5	20.6	3919		6.0	
UBBA	e SP	Z	14:20:35.9	120.9	50.9					
	e L	Z	15:03:44.7			20.0	4709		6.1	
GRA1	e PP	Z	14:10:41.6	121.0	52.6					
	e L	Z	15:02:24.1			21.1	4379		6.1	
IBBN	e SP	Z	14:20:39.2	121.0	47.9					
	e L	Z	15:03:41.8			19.1	3470		6.0	
BUG	e L	Z	15:04:14.5	121.8	47.8	19.7	4081		6.1	
FUR	e L	Z	15:02:58.4	121.9	53.4	20.2	3550		6.0	
TNS	e L	Z	15:04:29.7	122.0	49.6	19.9	4412		6.1	
STU	e L	Z	15:03:21.6	122.6	51.0	21.0	4074		6.1	
BFO	e L	Z	15:03:53.0	123.3	50.4	20.8	4166		6.1	
WLF	e L	Z	15:06:06.5	123.5	47.4	18.8	3215		6.0	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/01 14:03:32.0 3.520N 96.460E 33.0N 4.8
 Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:15:51.5	82.6	93.6	0.8	5	4.8		
GEC2	e P	Z	14:15:51.9	82.6	93.1	0.9	6	4.8		
RJOB	e P	Z	14:15:55.0	83.1	92.3	0.8	7	5.0		
WET	e P	Z	14:15:54.6	83.1	92.6	0.8	5	4.8		
CLL	e P	Z	14:15:54.3	83.2	92.9	1.0	5	4.7		
ROTZ	e P	Z	14:15:57.5	83.6	92.1	0.9	5	4.8		
MANZ	e P	Z	14:15:57.8	83.7	92.1	1.0	6	4.8		
GRA1	e P	Z	14:16:00.7	84.2	91.4	0.7	8	5.1		
CLZ	e P	Z	14:16:03.2	84.8	90.9	0.7	7	5.0		
BSEG	e P	Z	14:16:03.6	84.9	91.0	1.1	8	4.9		
BFO	e P	Z	14:16:09.1	86.1	89.1	0.8	6	4.8		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	14:42:1.2	18.050N	92.130W	153.6	5.4			SZGRF

Bay of Campeche

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 14:54:03.1	81.5	288.0	0.7	49	5.7		
IBBN	e P	Z 14:54:03.5	81.6	288.8	0.8	36	5.6		
BSEG	e P	Z 14:54:07.5	82.5	290.6	0.9	25	5.4		
TNS	e P	Z 14:54:09.0	82.7	289.6	1.0	62	5.8		
	e pP	Z 14:54:47.3							
NRDL	e P	Z 14:54:09.7	82.9	290.6					
	e pP	Z 14:54:48.2							
BFO	e P	Z 14:54:11.5	83.3	289.7	1.1	31	5.5		
CLZ	e P	Z 14:54:11.9	83.3	290.8	0.7	29	5.6		
	e pP	Z 14:54:50.0							
UBBA	e P	Z 14:54:12.5	83.5	290.7					
STU	e P	Z 14:54:13.7	83.7	290.3	0.9	52	5.7		
MOX	e P	Z 14:54:18.0	84.5	291.9	0.7	20	5.4		
GRA1	e P	Z 14:54:18.7	84.6	291.7	0.8	29	5.6		
	e pP	Z 14:54:56.8							
WERD	e P	Z 14:54:20.4	85.0	292.4	0.8	11	5.1		
GUNZ	e P	Z 14:54:20.9	85.0	292.5	0.7	21	5.5		
MANZ	e P	Z 14:54:20.5	85.0	292.3	0.9	12	5.1		
CLL	e P	Z 14:54:20.7	85.0	292.9	0.9	15	5.2		
WERN	e P	Z 14:54:21.3	85.1	292.5	0.8	28	5.5		
ROTZ	e P	Z 14:54:21.5	85.2	292.4	0.9	9	5.0		
BRG	e P	Z 14:54:24.5	85.7	293.6	0.7	8	5.0		
RJOB	e P	Z 14:54:26.6	86.3	293.0	0.7	15	5.2		
GEC2	e P	Z 14:54:26.5	86.4	293.6	0.8	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	16:17:48.4	19.963S	170.496E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPab	Z 16:37:12.5	142.8	31.8					
BRG	e PKPab	Z 16:37:17.1	144.0	39.5					
CLL	e PKPab	Z 16:37:17.2	144.0	37.8					
MOX	e PKPab	Z 16:37:21.8	145.1	36.3					
ROTZ	e PKPab	Z 16:37:23.6	145.6	37.9					
WLF	e PKPab	Z 16:37:33.2	147.8	28.4					
BFO	e PKPab	Z 16:37:34.1	148.2	33.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	16:19:56.6	48.881S	164.277E	10.0G				NEIC

Off west coast of South Island, New Zealand

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e PKPab	Z	16:40:37.9	160.8	101.3					
BRG	e PKPab	Z	16:40:38.6	160.9	95.6					
WET	e PKPab	Z	16:40:40.6	161.4	100.1					
CLL	e PKPab	Z	16:40:42.4	161.5	93.8					
ROTZ	e PKPab	Z	16:40:43.6	161.9	98.0					
GRA1	e PKPab	Z	16:40:46.0	162.5	97.7					
CLZ	e PKPab	Z	16:40:49.0	163.2	90.2					
TNS	e PKPab	Z	16:40:54.2	164.3	94.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	17:31:14.0	20.212S	173.838W	33.0G				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:50:50.2	146.1	7.0					
CLL	e PKPbc	Z	17:50:56.4	148.4	12.3					
BRG	e PKPbc	Z	17:50:57.3	148.7	14.2					
BUG	e PKPbc	Z	17:50:57.3	148.8	2.0					
FBE	e PKPbc	Z	17:50:57.7	148.8	13.1					
MOX	e PKPbc	Z	17:50:58.6	149.3	10.0					
WERD	e PKPbc	Z	17:50:59.1	149.4	11.4					
TANN	e PKPbc	Z	17:50:58.8	149.4	11.7					
GUNZ	e PKPbc	Z	17:50:59.4	149.5	11.4					
WERN	e PKPbc	Z	17:50:59.5	149.5	11.6					
MANZ	e PKPbc	Z	17:51:00.3	149.9	11.2					
TNS	e PKPbc	Z	17:51:00.6	149.9	4.3					
ROTZ	e PKPbc	Z	17:51:01.0	150.1	11.4					
GRA1	e PKPbc	Z	17:51:01.6	150.2	9.6					
WLF	e PKPbc	Z	17:51:02.6	150.5	360.0					
WET	e PKPbc	Z	17:51:01.9	150.6	12.9					
GEC2	e PKPbc	Z	17:51:02.3	150.7	14.6					
BFO	e PKPbc	Z	17:51:04.9	151.8	4.3					
RJOB	e PKPbc	Z	17:51:04.8	152.0	13.3					
	e PKPab	Z	17:51:13.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/01	19:44:56.1	19.550S	178.610W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:04:28.0	144.9	14.7					
NRDL	e PKPbc	Z	20:04:32.6	146.4	14.9					

IBBN	e	PKPbc	Z	20:04:34.5	146.9	11.0
CLZ	e	PKPbc	Z	20:04:35.2	147.0	15.7
CLL	e	PKPbc	Z	20:04:34.8	147.0	20.4
BRG	e	PKPbc	Z	20:04:35.6	147.1	22.2
FBE	e	PKPbc	Z	20:04:36.0	147.2	21.2
MOX	e	PKPbc	Z	20:04:37.6	147.9	18.3
TANN	e	PKPbc	Z	20:04:37.8	147.9	19.9
WERD	e	PKPbc	Z	20:04:37.7	147.9	19.6
GUNZ	e	PKPbc	Z	20:04:38.2	148.0	19.7
UBBA	e	PKPbc	Z	20:04:37.3	148.0	15.4
WERN	e	PKPbc	Z	20:04:38.4	148.0	19.8
MANZ	e	PKPbc	Z	20:04:39.2	148.4	19.5
ROTZ	e	PKPbc	Z	20:04:39.9	148.6	19.8
TNS	e	PKPbc	Z	20:04:40.4	148.8	12.9
	e	PKPab	Z	20:04:43.4		
GRA1	e	PKPbc	Z	20:04:40.7	148.9	18.1
WET	e	PKPbc	Z	20:04:40.9	149.0	21.4
	e	PKPab	Z	20:04:44.8		
GEC2	e	PKPbc	Z	20:04:41.1	149.1	23.0
	e	PKPab	Z	20:04:45.0		
WLF	e	PKPbc	Z	20:04:42.9	149.6	8.9
STU	e	PKPab	Z	20:04:48.5	150.1	14.9
FUR	e	PKPbc	Z	20:04:44.3	150.3	19.1
	e	PKPab	Z	20:04:49.9		
RJOB	e	PKPbc	Z	20:04:44.1	150.3	22.1
	e	PKPab	Z	20:04:50.5		
BFO	e	PKPbc	Z	20:04:45.0	150.7	13.4
	e	PKPab	Z	20:04:50.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	03:43:40.1	4.760S	101.060E	39.4	5.7	5.7		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:56:44.3	91.8	95.1	2.2	162	6.0		
	e S	T	04:07:42.1							
BRG	e P	Z	03:56:44.2	91.9	95.2	2.2	145	5.9		
	e PP	Z	04:00:22.7							
	e S	T	04:07:41.9							
RJOB	e P	Z	03:56:45.6	92.4	94.5	2.3	88	5.7		
	e PP	Z	04:00:27.1							
	e S	T	04:07:43.5							
WET	e P	Z	03:56:46.6	92.4	94.5	2.0	85	5.7		
	e S	T	04:07:46.2							
CLL	e P	Z	03:56:46.6	92.5	94.5	2.4	119	5.8		
	e S	T	04:07:45.7							
TANN	e P	Z	03:56:48.4	92.8	94.1	2.2	56	5.5		

	e S	T	04:07:49.5								
ROTZ	e P	Z	03:56:49.3	92.9	94.0	2.2	103	5.8			
	e PP	Z	04:00:31.5								
	e S	T	04:07:51.2								
MANZ	e P	Z	03:56:49.8	93.0	93.9	2.1	114	5.8			
	e S	T	04:07:52.2								
MOX	e P	Z	03:56:51.0	93.3	93.5	2.8	154	5.9			
	e S	T	04:07:53.4								
FUR	e PP	Z	04:00:35.4	93.4	93.3						
	e S	T	04:07:54.9								
GRA1	e P	Z	03:56:52.2	93.5	93.2	2.3	140	6.0			
	e pP	Z	03:57:03.4								
	e PP	Z	04:00:40.2								
	e S	T	04:07:55.6								
	e SS	T	04:14:11.7								
	e L	Z	04:48:33.3			19.7	2929	5.7			
CLZ	e P	Z	03:56:54.8	94.2	92.4	2.3	87	5.7			
	e S	T	04:08:00.2								
BSEG	e P	Z	03:56:55.4	94.3	92.2	2.1	79	5.7			
	e S	T	04:08:01.1								
NRDL	e P	Z	03:56:55.9	94.4	92.1	2.3	99	5.7			
	e S	T	04:08:01.9								
UBBA	e P	Z	03:56:55.2	94.4	92.2	2.1	61	5.6			
	e S	T	04:08:02.0								
STU	e S	T	04:08:05.4	94.8	91.7						
TNS	e P	Z	03:56:59.9	95.3	91.0	1.3	18	5.3			
	e S	T	04:08:10.3								
BFO	e S	T	04:08:10.5	95.4	91.1						
IBBN	e S	T	04:08:14.2	95.8	90.3						
BUG	e S	T	04:08:17.2	96.1	90.0						

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/02 12:24:14.7 56.975N 28.094W 33.0N 4.1
 North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:29:28.6	24.2	302.6	1.3	9	4.1		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/02 12:25: 9.2 40.815N 73.279E 19.7 4.3 4.4
 Kyrgyzstan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:33:08.1	43.3	77.2	1.1	7	4.3		
	e pP	Z 12:33:13.4							

e L Z 12:39:40.7 18.3 432 4.4

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/02 14:40: 8.2 1.450S 97.150E 33.0G 5.0
 Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 14:52:49.6	86.8	95.9	1.7	18	4.9		
BRG	e P	Z 14:52:49.5	86.8	96.2	0.9	7	4.8		
RUE	e P	Z 14:52:51.2	87.1	96.1	0.7	34	5.6		
FBE	e P	Z 14:52:51.5	87.2	95.7	0.8	8	4.9		
RJOB	e P	Z 14:52:51.4	87.3	95.2	1.1	7	4.7		
WET	e P	Z 14:52:52.3	87.4	95.3	0.3	9	5.4		
CLL	e P	Z 14:52:52.4	87.5	95.5	1.2	7	4.7		
TANN	e P	Z 14:52:53.9	87.7	95.0	2.2	25	5.1		
WERN	e P	Z 14:52:54.0	87.8	94.9	1.2	8	5.0		
GUNZ	e P	Z 14:52:54.1	87.8	94.9	0.8	5	4.9		
ROTZ	e P	Z 14:52:54.8	87.8	94.8	1.0	6	4.9		
MANZ	e P	Z 14:52:55.2	87.9	94.7	1.1	9	5.0		
MOX	e P	Z 14:52:56.4	88.3	94.4	0.9	4	4.8		
GRA1	e P	Z 14:52:57.5	88.5	94.0	0.9	11	5.2		
TNS	e P	Z 14:53:05.7	90.3	91.9	1.0	12	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/02

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:09:44.5							

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/02 16:11:16.0 21.590S 177.370W 33.0G
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 16:30:55.3	147.1	13.2					
NRDL	e PKPbc	Z 16:30:59.3	148.6	13.4					
CLZ	e PKPbc	Z 16:31:01.2	149.2	14.1					
CLL	e PKPbc	Z 16:31:01.1	149.2	19.1					
BRG	e PKPbc	Z 16:31:01.9	149.4	21.0					
	e PKPab	Z 16:31:06.1							
FBE	e PKPbc	Z 16:31:02.0	149.5	19.9					
	e PKPab	Z 16:31:06.7							
NEUB	e PKPbc	Z 16:31:02.2	149.5	16.9					

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MOX	e	PKPbc	Z	16:31:03.3	150.1	16.9
TANN	e	PKPbc	Z	16:31:03.6	150.2	18.6
WERD	e	PKPbc	Z	16:31:03.5	150.2	18.3
GUNZ	e	PKPbc	Z	16:31:03.7	150.2	18.4
	e	PKPab	Z	16:31:09.6		
WERN	e	PKPbc	Z	16:31:04.1	150.3	18.5
	e	PKPab	Z	16:31:09.9		
MANZ	e	PKPbc	Z	16:31:04.8	150.6	18.2
ROTZ	e	PKPbc	Z	16:31:05.2	150.8	18.5
TNS	e	PKPab	Z	16:31:13.0	151.0	11.2
GRA1	e	PKPbc	Z	16:31:06.2	151.1	16.7
WET	e	PKPab	Z	16:31:14.4	151.3	20.1
GEC2	e	PKPbc	Z	16:31:06.2	151.4	21.9
RJOB	e	PKPab	Z	16:31:20.6	152.6	20.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	16:34:48.7	57.391N	33.440W	33.0N	4.9	4.6		SZGRF
Reykjanes Ridge								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	16:39:59.1	23.9	298.7	1.7	121	5.1		
BUG	e P	Z	16:40:00.0	24.0	300.3	2.0	81	4.9		
WLF	e P	Z	16:40:04.0	24.4	303.7	2.0	85	4.9		
BSEG	e P	Z	16:40:04.9	24.5	295.9	2.2	155	5.3		
NRDL	e P	Z	16:40:09.4	25.0	298.7	1.2	30	4.9		
TNS	e P	Z	16:40:12.5	25.3	302.7	1.5	33	4.8		
CLZ	e P	Z	16:40:12.5	25.5	299.9	2.0	101	5.1		
UBBA	e P	Z	16:40:16.5	25.8	301.7	1.7	29	4.6		
BFO	e P	Z	16:40:21.0	26.3	305.9	1.7	39	4.8		
MOX	e P	Z	16:40:25.2	26.8	302.2	2.0	64	5.0		
GRA1	e P	Z	16:40:28.8	27.1	303.7	1.9	96	5.2		
	e L	Z	16:50:43.0			18.4	1393		4.6	
CLL	e P	Z	16:40:28.2	27.2	301.2	1.5	18	4.6		
TANN	e P	Z	16:40:30.1	27.4	302.6	2.0	55	4.9		
MANZ	e P	Z	16:40:30.5	27.4	303.3	2.0	39	4.9		
ROTZ	e P	Z	16:40:32.5	27.6	303.6	1.8	18	4.6		
BRG	e P	Z	16:40:36.2	27.9	302.1	2.5	54	4.9		
FUR	e P	Z	16:40:36.7	28.0	306.1	1.7	70	5.2		
WET	e P	Z	16:40:39.2	28.3	304.7	1.8	27	4.8		
GEC2	e P	Z	16:40:44.7	28.9	305.2	2.0	36	4.8		
RJOB	e P	Z	16:40:46.5	29.1	306.8	2.2	41	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	16:48:16.2	58.479N	33.235W	33.0N	4.2			SZGRF
Reykjanes Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:53:55.0	26.9	306.1	1.5	8	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	18:00: 8.7	54.830N	161.010W	46.5	6.5	5.9		SZGRF

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 18:11:23.1	70.5	356.5	1.1	1003	6.9		
HLG	e P	Z 18:11:23.7	70.6	353.2	1.1	1032	6.9		
BSEG	e P	Z 18:11:26.0	71.0	354.7	1.2	589	6.6		
NRDL	e P	Z 18:11:34.3	72.4	354.6	1.2	442	6.5		
IBBN	e P	Z 18:11:34.7	72.5	353.2	1.1	610	6.6		
	e S	T 18:20:59.0							
RUE	e P	Z 18:11:35.3	72.6	356.9	1.2	893	6.8		
CLZ	e P	Z 18:11:38.6	73.1	354.8	1.2	730	6.7		
	e pP	Z 18:11:51.9							
	e S	T 18:21:04.0							
BUG	e P	Z 18:11:39.1	73.3	353.0	1.1	547	6.5		
	e S	T 18:21:05.3							
CLL	e P	Z 18:11:41.6	73.7	356.4	1.6	712	6.4		
	e S	T 18:21:09.8							
UBBA	e P	Z 18:11:43.9	74.1	354.6	1.8	508	6.2		
	e S	T 18:21:12.0							
FBE	e P	Z 18:11:44.3	74.1	356.6	1.3	813	6.6		
BRG	e P	Z 18:11:44.5	74.2	357.0	1.2	405	6.3		
MOX	e P	Z 18:11:45.5	74.3	355.6	1.1	534	6.5		
	e S	T 18:21:20.8							
WERD	e P	Z 18:11:46.9	74.6	356.0	2.3	1295	6.6		
TNS	e P	Z 18:11:47.0	74.6	353.7	1.6	638	6.4		
	e S	T 18:21:23.1							
TANN	e P	Z 18:11:47.2	74.6	356.1	1.6	618	6.4		
	e S	T 18:21:24.5							
GUNZ	e P	Z 18:11:47.5	74.7	356.0	1.9	1048	6.5		
WERN	e P	Z 18:11:48.0	74.7	356.1	1.6	826	6.5		
WLF	e P	Z 18:11:49.5	75.0	352.4	1.2	489	6.4		
	e S	T 18:21:29.1							
MANZ	e P	Z 18:11:49.4	75.0	355.9	1.7	561	6.3		
ROTZ	e P	Z 18:11:51.1	75.2	356.0	1.6	711	6.5		
	e S	T 18:21:33.0							
GRA1	e P	Z 18:11:51.2	75.3	355.4	1.7	989	6.7		
	e PP	Z 18:14:45.6							
	e S	T 18:21:33.4							
	e SS	T 18:26:22.2							
	e PKPPKpdf	Z 18:39:23.5							
	e L	Z 18:47:39.5			21.2	7093		5.9	

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WET	e P	Z	18:11:54.7	75.9	356.4	1.6	634	6.5
	e S	T	18:21:39.4					
STU	e P	Z	18:11:55.4	76.1	354.2	1.6	603	6.5
	e S	T	18:21:41.2					
GEC2	e P	Z	18:11:56.3	76.2	356.9	1.6	537	6.4
BFO	e P	Z	18:11:57.5	76.5	353.7	1.6	513	6.4
	e S	T	18:21:44.0					
FUR	e P	Z	18:11:59.7	76.8	355.4	1.9	1536	6.8
	e S	T	18:21:48.2					
RJOB	e P	Z	18:12:02.3	77.3	356.3	1.1	243	6.3
	e S	T	18:21:54.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	18:03:55.8	54.810N	160.620W	33.0N	5.8			SZGRF
Alaska Peninsula, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	18:15:10.0	70.5	356.3	1.1	234	6.2		
HLG	e P	Z	18:15:10.6	70.6	353.0	0.9	227	6.3		
BSEG	e P	Z	18:15:12.8	71.0	354.5	1.0	118	6.0		
IBBN	e P	Z	18:15:21.5	72.5	353.0	1.2	166	6.0		
RUE	e P	Z	18:15:22.1	72.6	356.6	1.1	178	6.1		
CLZ	e P	Z	18:15:25.5	73.1	354.6	0.9	102	5.9		
BUG	e P	Z	18:15:26.0	73.3	352.7	1.0	126	5.9		
CLL	e P	Z	18:15:28.4	73.7	356.2	1.1	84	5.7		
UBBA	e P	Z	18:15:30.1	74.1	354.4	0.9	14	5.0		
FBE	e P	Z	18:15:31.2	74.1	356.4	1.0	135	5.9		
BRG	e P	Z	18:15:31.4	74.2	356.7	1.0	76	5.7		
MOX	e P	Z	18:15:32.3	74.3	355.4	1.3	153	5.9		
TNS	e P	Z	18:15:33.8	74.6	353.5	1.0	82	5.7		
WERD	e P	Z	18:15:33.6	74.6	355.8	0.9	25	5.3		
TANN	e P	Z	18:15:33.8	74.6	355.9	1.5	56	5.4		
GUNZ	e P	Z	18:15:34.1	74.7	355.8	0.9	37	5.4		
WERN	e P	Z	18:15:34.8	74.7	355.8	1.4	113	5.7		
WLF	e P	Z	18:15:36.4	74.9	352.2	1.0	94	5.8		
MANZ	e P	Z	18:15:36.3	75.0	355.7	1.5	83	5.5		
ROTZ	e P	Z	18:15:37.9	75.3	355.7	0.9	49	5.6		
GRA1	e P	Z	18:15:38.0	75.3	355.1	1.2	118	5.9		
WET	e P	Z	18:15:41.6	75.9	356.1	1.4	77	5.7		
GEC2	e P	Z	18:15:43.1	76.2	356.6	0.9	45	5.6		
BFO	e P	Z	18:15:44.3	76.4	353.5	1.0	42	5.5		
FUR	e P	Z	18:15:46.5	76.8	355.2	1.0	92	5.9		
RJOB	e P	Z	18:15:49.2	77.3	356.1	0.8	97	6.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:58:59.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	20:57:32.7	54.490N	161.560W	27.4	5.6			SZGRF

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 21:08:50.0	70.9	356.9	1.2	199	6.1		
BSEG	e P	Z 21:08:52.8	71.4	355.0	1.1	87	5.8		
NRDL	e P	Z 21:09:01.1	72.8	354.9	1.0	63	5.7		
IBBN	e P	Z 21:09:01.5	72.8	353.5	1.3	138	5.9		
RUE	e P	Z 21:09:02.2	73.0	357.2	1.2	110	5.9		
CLZ	e P	Z 21:09:05.5	73.5	355.1	0.9	64	5.7		
BUG	e P	Z 21:09:06.0	73.7	353.3	0.9	81	5.7		
CLL	e P	Z 21:09:08.4	74.1	356.7	1.1	59	5.5		
UBBA	e P	Z 21:09:10.6	74.5	354.9	1.1	19	5.0		
FBE	e P	Z 21:09:11.2	74.5	356.9	1.0	79	5.7		
BRG	e P	Z 21:09:11.4	74.6	357.3	1.0	53	5.5		
MOX	e P	Z 21:09:12.4	74.7	355.9	1.2	99	5.7		
WERD	e P	Z 21:09:13.6	74.9	356.3	1.5	53	5.3		
TNS	e P	Z 21:09:13.9	75.0	354.0	1.2	65	5.5		
TANN	e P	Z 21:09:14.1	75.0	356.4	2.0	90	5.4		
GUNZ	e P	Z 21:09:14.3	75.0	356.3	0.7	21	5.3		
WERN	e P	Z 21:09:14.8	75.1	356.4	0.5	30	5.5		
WLF	e P	Z 21:09:16.4	75.3	352.7	1.2	73	5.7		
MANZ	e P	Z 21:09:16.2	75.4	356.2	1.3	30	5.3		
ROTZ	e P	Z 21:09:17.9	75.6	356.3	1.1	42	5.5		
GRA1	e P	Z 21:09:18.0	75.6	355.7	1.3	81	5.7		
	e pP	Z 21:09:25.9							
WET	e P	Z 21:09:21.6	76.3	356.7	1.4	61	5.5		
STU	e P	Z 21:09:22.2	76.4	354.5	1.3	66	5.6		
GEC2	e P	Z 21:09:23.1	76.6	357.2	0.8	32	5.5		
BFO	e P	Z 21:09:24.3	76.8	354.0	0.9	22	5.3		
FUR	e P	Z 21:09:26.5	77.2	355.7	0.8	49	5.7		
RJOB	e P	Z 21:09:29.2	77.7	356.6	0.7	79	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	21:59:33.0	54.586N	161.179W	33.0N	4.7			SZGRF

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:11:14.6	75.5	355.5	1.1	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/02	21:54:32.6	22.210S	170.680E	33.0G				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	22:14:08.5	146.1	41.0					
CLL	e PKPbc	Z	22:14:08.5	146.1	39.1					
CLZ	e PKPbc	Z	22:14:10.9	146.7	34.6					
TANN	e PKPbc	Z	22:14:11.5	147.0	39.2					
IBBN	e PKPbc	Z	22:14:12.0	147.2	30.1					
MANZ	e PKPbc	Z	22:14:13.3	147.5	39.0					
ROTZ	e PKPbc	Z	22:14:13.8	147.7	39.4					
UBBA	e PKPbc	Z	22:14:13.2	147.7	34.9					
GEC2	e PKPbc	Z	22:14:13.7	147.7	42.7					
WET	e PKPbc	Z	22:14:14.0	147.8	41.1					
GRA1	e PKPbc	Z	22:14:15.0	148.1	37.9					
TNS	e PKPbc	Z	22:14:15.9	148.7	33.0					
RJOB	e PKPbc	Z	22:14:16.6	148.9	42.5					
WLF	e PKPbc	Z	22:14:20.5	150.0	29.6					
BFO	e PKPbc	Z	22:14:20.5	150.3	34.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	02:07:37.1	25.385N	124.756E	33.0N	5.0			SZGRF

Northeast of Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:19:57.7	82.5	58.4	1.0	5	4.7		
BSEG	e P	Z	02:19:58.4	82.7	56.0	1.5	15	5.0		
CLL	e P	Z	02:19:58.6	82.8	57.8	1.0	7	4.9		
GEC2	e P	Z	02:20:01.7	83.7	58.0	1.6	8	4.7		
CLZ	e P	Z	02:20:04.1	83.9	55.9	1.4	25	5.3		
MANZ	e P	Z	02:20:05.2	84.0	57.0	2.0	15	4.9		
WET	e P	Z	02:20:06.0	84.0	57.5	2.7	23	4.9		
ROTZ	e P	Z	02:20:06.0	84.1	57.0	1.4	7	4.7		
GRA1	e P	Z	02:20:07.8	84.6	56.3	1.4	18	5.1		
UBBA	e P	Z	02:20:06.9	84.6	55.5	1.4	12	4.9		
IBBN	e P	Z	02:20:08.8	84.9	53.9	1.2	20	5.2		
FUR	e P	Z	02:20:11.6	85.5	56.2	2.2	86	5.5		
BUG	e P	Z	02:20:12.4	85.7	53.5	2.8	142	5.6		
STU	e P	Z	02:20:16.1	86.2	54.8	0.7	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	02:25:46.3	51.590N	178.600W	33.0N	4.9			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:37:22.8	74.2	5.7	0.8	16	5.1		
IBBN	e P	Z	02:37:32.3	76.0	4.1	0.6	21	5.5		
CLZ	e P	Z	02:37:34.7	76.3	5.7	0.7	16	5.3		
CLL	e P	Z	02:37:36.4	76.6	7.4	1.0	7	4.8		
BUG	e P	Z	02:37:37.7	76.8	3.7	0.7	12	5.1		
BRG	e P	Z	02:37:38.4	77.0	8.0	0.8	8	4.9		
UBBA	e P	Z	02:37:40.0	77.3	5.5	0.8	4	4.6		
MOX	e P	Z	02:37:40.2	77.4	6.5	1.0	9	4.9		
TANN	e P	Z	02:37:41.7	77.6	7.0	1.2	7	4.7		
TNS	e P	Z	02:37:43.8	78.0	4.5	0.7	12	5.2		
MANZ	e P	Z	02:37:43.9	78.0	6.8	0.8	4	4.5		
ROTZ	e P	Z	02:37:45.1	78.2	6.8	1.0	6	4.6		
GRA1	e P	Z	02:37:45.9	78.4	6.2	0.9	18	5.1		
WET	e P	Z	02:37:48.0	78.8	7.2	1.1	6	4.6		
GEC2	e P	Z	02:37:49.7	79.0	7.7	0.7	7	4.8		
STU	e P	Z	02:37:51.9	79.4	4.9	3.2	157	5.4		
FUR	e P	Z	02:37:54.5	79.9	6.2	0.9	10	4.8		
BFO	e P	Z	02:37:54.5	79.9	4.4	0.9	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	03:36:48.5	17.480S	172.360W	33.0G				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	03:56:20.8	144.9	4.1					
IBBN	e PKPbc	Z	03:56:21.9	145.2	0.2					
CLZ	e PKPbc	Z	03:56:23.2	145.6	4.6					
CLL	e PKPbc	Z	03:56:23.9	145.9	9.2					
BUG	e PKPbc	Z	03:56:24.4	146.0	359.4					
BRG	e PKPbc	Z	03:56:25.0	146.2	10.9					
FBE	e PKPbc	Z	03:56:25.3	146.2	9.8					
UBBA	e PKPbc	Z	03:56:26.3	146.6	4.1					
MOX	e PKPbc	Z	03:56:26.3	146.7	6.9					
WERD	e PKPbc	Z	03:56:27.1	146.8	8.2					
TANN	e PKPbc	Z	03:56:27.3	146.8	8.4					
GUNZ	e PKPbc	Z	03:56:27.4	146.9	8.2					
WERN	e PKPbc	Z	03:56:27.8	147.0	8.3					
MANZ	e PKPbc	Z	03:56:28.4	147.3	7.9					
ROTZ	e PKPbc	Z	03:56:29.1	147.5	8.1					
GRA1	e PKPbc	Z	03:56:29.8	147.7	6.4					
WLF	e PKPbc	Z	03:56:30.2	147.8	357.3					
WET	e PKPbc	Z	03:56:30.9	148.1	9.5					

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GEC2	e	PKPbc	Z	03:56:30.9	148.3	11.0
STU	e	PKPbc	Z	03:56:32.1	148.7	2.9
BFO	e	PKPbc	Z	03:56:33.4	149.1	1.3
FUR	e	PKPbc	Z	03:56:33.6	149.2	6.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	06:05:21.1	22.880S	177.140W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	PKPbc	Z	06:25:09.5	150.5	19.2			
	e	PKPab	Z	06:25:16.1					
BRG	e	PKPbc	Z	06:25:10.3	150.7	21.2			
	e	PKPab	Z	06:25:16.9					
NEUB	e	PKPbc	Z	06:25:10.5	150.8	17.0			
	e	PKPab	Z	06:25:17.5					
MOX	e	PKPbc	Z	06:25:11.9	151.4	17.0			
	e	PKPab	Z	06:25:19.7					
TANN	e	PKPbc	Z	06:25:11.9	151.5	18.8			
MANZ	e	PKPbc	Z	06:25:13.1	151.9	18.3			
ROTZ	e	PKPbc	Z	06:25:13.6	152.1	18.7			
GRA1	e	PKPbc	Z	06:25:13.8	152.4	16.8			
WET	e	PKPbc	Z	06:25:14.2	152.6	20.4			
	e	PKPab	Z	06:25:25.2					
GEC2	e	PKPbc	Z	06:25:14.4	152.7	22.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	09:15: 7.9	51.394N	175.427W	33.0N	5.0			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z	09:27:07.6	78.8	4.2	1.0	15	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	14:06: 5.4	57.280N	151.760W	40.8	5.1	4.1		SZGRF

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e	P	Z	14:17:01.3	67.5	351.3	0.9	42	5.6
BSEG	e	P	Z	14:17:02.4	67.8	349.7	1.1	21	5.3
	e	pP	Z	14:17:14.1					
IBBN	e	P	Z	14:17:10.7	69.1	348.3	1.0	14	5.1
	e	pP	Z	14:17:22.1					

RUE	e P	Z	14:17:13.8	69.6	351.7	1.2	45	5.5		
	e pP	Z	14:17:25.3							
CLZ	e P	Z	14:17:15.6	69.9	349.8	0.9	24	5.3		
BUG	e P	Z	14:17:15.3	69.9	348.1	0.9	28	5.4		
	e pP	Z	14:17:26.8							
CLL	e P	Z	14:17:19.5	70.7	351.3	1.1	14	5.0		
UBBA	e P	Z	14:17:21.2	70.9	349.7	1.6	14	4.8		
FBE	e P	Z	14:17:22.6	71.1	351.6	1.2	28	5.3		
BRG	e P	Z	14:17:23.2	71.2	351.9	1.1	18	5.1		
MOX	e P	Z	14:17:23.4	71.2	350.6	1.1	23	5.2		
	e pP	Z	14:17:35.0							
TNS	e P	Z	14:17:23.5	71.3	348.9	1.2	11	4.9		
	e pP	Z	14:17:35.1							
WERD	e P	Z	14:17:24.7	71.5	351.0	1.2	14	4.9		
WLF	e P	Z	14:17:25.2	71.5	347.6	1.3	18	5.0		
TANN	e P	Z	14:17:25.3	71.5	351.1	1.2	12	4.9		
GUNZ	e P	Z	14:17:25.4	71.6	351.0	1.3	14	4.9		
WERN	e P	Z	14:17:26.2	71.6	351.0	1.6	28	5.2		
	e pP	Z	14:17:37.8							
MANZ	e P	Z	14:17:27.5	71.9	350.9	1.2	10	4.8		
GRA1	e P	Z	14:17:29.0	72.1	350.4	1.1	18	5.1		
	e pP	Z	14:17:40.5							
	e L	Z	14:47:23.3			21.8	116		4.1	
ROTZ	e P	Z	14:17:29.1	72.1	351.0	1.1	17	5.1		
	e pP	Z	14:17:40.8							
STU	e P	Z	14:17:33.3	72.8	349.4	1.0	11	4.9		
WET	e P	Z	14:17:33.4	72.8	351.4	1.3	14	5.0		
BFO	e P	Z	14:17:34.5	73.1	348.9	1.1	12	4.9		
	e pP	Z	14:17:46.6							
GEC2	e P	Z	14:17:35.0	73.2	351.9	1.8	24	4.9		
	e pP	Z	14:17:46.7							
FUR	e P	Z	14:17:37.9	73.6	350.5	1.1	28	5.2		

Date 2007/10/03
Origin Time 14:51: 3.6
Colombia Lat 4.715N Long 76.576W Depth 33.0N mb 4.5 Ms ML Source SZGRF

Sta GRA1 Phase e P Time 15:03:36.0 Dist 85.0 BAz 271.4 T[s] 1.2 A[nm] 4 mb 4.5 MS ML

Date 2007/10/03
Origin Time 15:40:10.0
Southeast of Loyalty Islands Lat 21.500S Long 169.300E Depth 39.0 mb Ms ML Source NEIC

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

GRA1	e PKPbc	Z	15:59:48.1	146.9	39.5
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:23:06.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	19:15:12.6	42.011S	172.961E	68.0G				NEIC
South Island, New Zealand								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKP	Z	19:35:49.8	161.7	55.3					
	e pPKPab	Z	19:36:06.6							
RUE	e PKP	Z	19:35:54.3	162.5	61.5					
BRG	e PKP	Z	19:35:56.1	163.1	66.5					
	e pPKPab	Z	19:36:13.5							
BSEG	e PKP	Z	19:35:56.9	163.4	51.0					
FBE	e PKP	Z	19:35:57.7	163.5	65.4					
	e pPKPab	Z	19:36:14.2							
CLL	e PKP	Z	19:35:57.3	163.5	63.6					
	e pPKPab	Z	19:36:13.7							
GEC2	e PKP	Z	19:36:01.2	164.0	72.5					
TANN	e PKP	Z	19:36:01.3	164.2	65.4					
	e pPKPab	Z	19:36:18.0							
WERD	e PKP	Z	19:36:01.2	164.3	65.1					
	e pPKPab	Z	19:36:17.6							
GUNZ	e PKP	Z	19:36:01.4	164.3	65.4					
	e pPKPab	Z	19:36:18.6							
WERN	e PKP	Z	19:36:01.6	164.3	65.7					
	e pPKPab	Z	19:36:18.3							
WET	e PKP	Z	19:36:02.8	164.4	70.3					
	e pPKPab	Z	19:36:19.4							
NRDL	e PKP	Z	19:36:01.4	164.4	54.6					
MANZ	e PKP	Z	19:36:03.0	164.6	66.2					
	e pPKPab	Z	19:36:20.2							
MOX	e PKP	Z	19:36:02.4	164.6	63.2					
	e pPKPab	Z	19:36:19.3							
ROTZ	e PKP	Z	19:36:03.6	164.6	67.1					
	e pPKPab	Z	19:36:20.3							
CLZ	e PKP	Z	19:36:02.7	164.6	57.1					
GRA1	e PKP	Z	19:36:06.1	165.2	65.7					
	e pPKPab	Z	19:36:22.7							
IBBN	e PKP	Z	19:36:06.7	165.7	50.0					

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FUR	e PKP	Z	19:36:09.3	165.7	71.3
BUG	e PKP	Z	19:36:10.3	166.4	51.5
STU	e PKP	Z	19:36:13.3	166.8	65.3
BFO	e PKP	Z	19:36:15.9	167.5	65.4
	e pPKPab	Z	19:36:32.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	19:35:21.5	50.670N	154.400E	33.0N	4.9	4.2		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 19:46:39.7	71.1	23.1	0.9	10	4.9		
NRDL	e P	Z 19:46:47.1	72.5	22.8	1.1	8	4.7		
CLL	e P	Z 19:46:49.3	72.9	24.4	1.0	19	5.2		
BRG	e P	Z 19:46:50.3	73.0	25.0	1.1	9	4.8		
CLZ	e P	Z 19:46:51.1	73.1	22.9	1.0	23	5.3		
IBBN	e P	Z 19:46:51.6	73.2	21.3	0.9	12	5.0		
TANN	e P	Z 19:46:55.2	73.9	24.0	1.0	5	4.5		
MOX	e P	Z 19:46:55.3	73.9	23.5	1.0	12	4.8		
UBBA	e P	Z 19:46:56.6	74.1	22.6	1.9	29	5.0		
BUG	e P	Z 19:46:56.7	74.2	21.0	0.9	10	4.9		
MANZ	e P	Z 19:46:58.1	74.3	23.7	0.9	7	4.7		
ROTZ	e P	Z 19:46:59.5	74.5	23.8	0.9	11	4.9		
GRA1	e P	Z 19:47:01.3	74.8	23.2	1.0	26	5.2		
	e L	Z 20:56:11.9			21.8	138		4.2	
WET	e P	Z 19:47:01.8	74.9	24.1	1.0	15	5.0		
GEC2	e P	Z 19:47:01.7	75.0	24.6	1.9	26	4.9		
TNS	e P	Z 19:47:02.0	75.0	21.6	0.7	17	5.2		
WLF	e P	Z 19:47:08.7	76.1	20.1	1.4	12	4.8		
STU	e P	Z 19:47:08.6	76.2	21.9	1.1	14	5.0		
FUR	e P	Z 19:47:09.0	76.2	23.1	1.1	16	5.1		
BFO	e P	Z 19:47:11.9	76.8	21.3	0.8	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	21:03:48.3	15.818S	172.377W	43.3				SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 21:23:17.1	143.9	4.5					
CLL	e PKPbc	Z 21:23:17.2	144.2	8.9					
BUG	e PKPbc	Z 21:23:17.9	144.4	359.4					
BRG	e PKPbc	Z 21:23:18.8	144.6	10.5					
UBBA	e PKPbc	Z 21:23:19.9	144.9	4.0					
MOX	e PKPbc	Z 21:23:20.3	145.0	6.7					
	e pPKPbc	Z 21:23:33.1							

TANN	e	PKPbc	Z	21:23:20.9	145.2	8.2
	e	pPKPbc	Z	21:23:33.6		
TNS	e	PKPbc	Z	21:23:22.7	145.6	1.4
MANZ	e	PKPbc	Z	21:23:22.5	145.6	7.7
	e	pPKPbc	Z	21:23:35.1		
ROTZ	e	PKPbc	Z	21:23:23.4	145.8	7.9
	e	pPKPbc	Z	21:23:36.7		
GRA1	e	PKPbc	Z	21:23:24.1	146.0	6.2
	e	pPKPbc	Z	21:23:37.5		
WLF	e	PKPbc	Z	21:23:24.7	146.1	357.5
WET	e	PKPbc	Z	21:23:25.1	146.4	9.2
GEC2	e	PKPbc	Z	21:23:25.2	146.6	10.7
STU	e	PKPbc	Z	21:23:26.6	147.0	2.8
BFO	e	PKPbc	Z	21:23:28.0	147.5	1.3
FUR	e	PKPbc	Z	21:23:28.1	147.5	6.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/03	23:36: 7.9	22.620S	169.550E	33.0N		4.7		SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 23:55:40.0	145.0	34.8					
BRG	e	PKPbc	Z 23:55:43.0	146.0	43.0					
CLL	e	PKPbc	Z 23:55:43.0	146.1	41.1					
TANN	e	PKPbc	Z 23:55:46.6	147.0	41.2					
MOX	e	PKPbc	Z 23:55:47.0	147.1	39.7					
IBBN	e	PKPbc	Z 23:55:47.3	147.2	32.2					
WET	e	PKPbc	Z 23:55:49.1	147.7	43.2					
GRA1	e	PKPbc	Z 23:55:50.0	148.0	40.1					
BUG	e	PKPbc	Z 23:55:49.8	148.1	32.1					
TNS	e	PKPbc	Z 23:55:52.0	148.7	35.1					
FUR	e	PKPbc	Z 23:55:53.6	149.2	41.8					
STU	e	PKPbc	Z 23:55:54.1	149.6	37.8					
WLF	e	PKPbc	Z 23:55:55.8	150.0	31.8					
BFO	e	PKPbc	Z 23:55:55.6	150.3	36.8					
GRA1	e	L	Z 01:21:11.9	148.0	40.1	20.5	143		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/04	00:19:55.1	21.490S	169.540E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	PKPbc	Z 00:39:27.6	145.0	42.1					
CLL	e	PKPbc	Z 00:39:27.3	145.0	40.3					
NEUB	e	PKPbc	Z 00:39:29.7	145.6	38.6					

CLZ	e	PKPbc	Z	00:39:30.2	145.6	35.9
TANN	e	PKPbc	Z	00:39:30.7	145.9	40.3
WERD	e	PKPbc	Z	00:39:30.7	146.0	40.1
GUNZ	e	PKPbc	Z	00:39:31.4	146.0	40.2
WERN	e	PKPbc	Z	00:39:31.5	146.1	40.3
IBBN	e	PKPbc	Z	00:39:31.4	146.1	31.5
MANZ	e	PKPbc	Z	00:39:32.4	146.4	40.2
ROTZ	e	PKPbc	Z	00:39:33.2	146.5	40.6
GEC2	e	PKPbc	Z	00:39:32.4	146.6	43.7
WET	e	PKPbc	Z	00:39:33.5	146.7	42.2
GRA1	e	PKPbc	Z	00:39:34.4	147.0	39.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/04	08:42:3.6	20.370S	178.960W	33.0G				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 09:01:38.7	145.7	15.6					
CLL	e	PKPbc	Z 09:01:44.3	147.7	21.3					
CLZ	e	PKPbc	Z 09:01:44.5	147.7	16.5					
FBE	e	PKPbc	Z 09:01:45.6	147.9	22.1					
TANN	e	PKPbc	Z 09:01:47.0	148.6	20.9					
WERD	e	PKPbc	Z 09:01:47.1	148.6	20.6					
GUNZ	e	PKPbc	Z 09:01:47.6	148.7	20.7					
WERN	e	PKPbc	Z 09:01:47.6	148.8	20.8					
MANZ	e	PKPbc	Z 09:01:48.5	149.1	20.5					
ROTZ	e	PKPbc	Z 09:01:48.9	149.3	20.8					
GRA1	e	PKPbc	Z 09:01:49.7	149.6	19.1					
GEC2	e	PKPbc	Z 09:01:49.8	149.8	24.1					
WLF	e	PKPbc	Z 09:01:51.8	150.4	9.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/04	12:40:27.4	1.980N	93.440E	39.0	5.9	5.9		SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z 12:52:42.6	81.8	96.5	1.1	240	6.2		
	e	S	R 13:02:48.5							
BRG	e	P	Z 12:52:42.9	81.9	96.9	1.1	118	5.9		
	e	S	R 13:02:50.0							
RUE	e	P	Z 12:52:44.1	82.1	97.0	1.0	226	6.3		
FBE	e	P	Z 12:52:44.9	82.2	96.5	1.1	162	6.1		
RJOB	e	P	Z 12:52:44.3	82.3	95.6	1.2	105	5.8		
	e	S	R 13:02:50.6							
WET	e	P	Z 12:52:45.5	82.3	95.9	1.2	128	5.9		

	e S	R	13:02:54.9								
CLL	e P	Z	12:52:45.7	82.5	96.3	1.2	90	5.8			
	e S	R	13:02:56.1								
RGN	e P	Z	12:52:46.9	82.7	96.9	1.2	156	6.1			
TANN	e P	Z	12:52:47.4	82.7	95.7	1.3	73	5.8			
	e S	R	13:02:58.9								
WERN	e P	Z	12:52:47.8	82.8	95.6	1.0	57	5.7			
GUNZ	e P	Z	12:52:47.9	82.8	95.6	1.1	78	5.9			
ROTZ	e P	Z	12:52:48.5	82.8	95.4	1.2	91	5.9			
	e S	R	13:03:01.1								
WERD	e P	Z	12:52:47.9	82.8	95.6	1.0	67	5.8			
MANZ	e P	Z	12:52:48.9	82.9	95.4	1.1	141	6.1			
	e S	R	13:03:02.7								
MOX	e P	Z	12:52:50.3	83.3	95.1	1.2	96	5.9			
	e S	R	13:03:04.1								
FUR	e P	Z	12:52:50.0	83.3	94.5	1.1	117	6.0			
	e S	R	13:03:03.2								
GRA1	e P	Z	12:52:51.6	83.5	94.7	1.1	121	6.0			
	e pP	Z	12:53:02.9								
	e S	R	13:03:06.9								
	e SS	T	13:08:43.1								
	e SSS	T	13:12:12.0								
	e L	Z	13:38:23.9			18.4	4727	5.9			
CLZ	e P	Z	12:52:54.7	84.2	94.2	1.0	108	6.0			
	e S	R	13:03:13.2								
UBBA	e P	Z	12:52:55.4	84.3	93.8	1.8	136	5.9			
	e S	R	13:03:15.3								
BSEG	e P	Z	12:52:55.7	84.4	94.4	1.1	102	6.0			
	e S	R	13:03:16.0								
STU	e P	Z	12:52:57.4	84.7	93.0	1.4	84	5.8			
	e S	R	13:03:16.9								
BFO	e P	Z	12:53:00.0	85.3	92.3	1.1	47	5.6			
	e S	R	13:03:22.4								
TNS	e P	Z	12:53:00.6	85.3	92.6	1.0	93	6.0			
	e S	R	13:03:22.6								
IBBN	e P	Z	12:53:03.1	85.8	92.2	1.3	134	5.9			
	e S	R	13:03:30.0								
BUG	e P	Z	12:53:04.3	86.1	91.8	1.0	95	5.9			
	e S	R	13:03:32.9								
WLF	e P	Z	12:53:08.0	86.7	90.8	1.3	98	5.8			
	e S	R	13:03:41.1								

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/04 14:06:18.7 61.862N 171.270E 33.0N 4.8 SZGRF
 Eastern Siberia, Russia

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

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CLL	e P	Z	14:16:58.1	65.5	11.1	1.2	6	4.7
FBE	e P	Z	14:17:01.1	65.9	11.2	1.1	9	4.9
MOX	e P	Z	14:17:03.8	66.3	10.3	1.5	14	5.0
WERD	e P	Z	14:17:04.3	66.4	10.6	1.2	6	4.7
GUNZ	e P	Z	14:17:05.2	66.5	10.6	1.5	12	4.9
WERN	e P	Z	14:17:05.2	66.6	10.7	1.1	5	4.7
GRA1	e P	Z	14:17:10.7	67.3	10.0	0.9	9	5.0
WET	e P	Z	14:17:12.5	67.7	10.8	1.3	7	4.8
GEC2	e P	Z	14:17:13.0	67.8	11.2	1.6	9	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/04	18:22:45.7	22.927S	177.538W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:42:28.8	148.4	13.9					
RUE	e PKPbc	Z	18:42:30.5	149.2	20.7					
NRDL	e PKPbc	Z	18:42:32.5	149.9	14.1					
	e PKPab	Z	18:42:37.7							
CLZ	e PKPbc	Z	18:42:34.3	150.5	14.9					
	e PKPbc	Z	18:42:33.9	150.5	20.0					
BRG	e PKPab	Z	18:42:39.9							
	e PKPbc	Z	18:42:34.5	150.7	22.0					
FBE	e PKPab	Z	18:42:40.7							
	e PKPbc	Z	18:42:35.0	150.8	20.9					
BUG	e PKPbc	Z	18:42:35.8	151.2	9.2					
	e PKPbc	Z	18:42:36.2	151.4	17.8					
MOX	e PKPab	Z	18:42:43.9							
	e PKPbc	Z	18:42:36.3	151.4	19.5					
TANN	e PKPab	Z	18:42:44.2							
	e PKPbc	Z	18:42:36.3	151.4	19.2					
WERD	e PKPab	Z	18:42:44.5							
	e PKPbc	Z	18:42:36.1	151.5	14.7					
UBBA	e PKPab	Z	18:42:44.9							
	e PKPbc	Z	18:42:36.7	151.5	19.3					
GUNZ	e PKPab	Z	18:42:44.6							
	e PKPbc	Z	18:42:37.0	151.6	19.5					
WERN	e PKPab	Z	18:42:45.0							
	e PKPbc	Z	18:42:37.5	151.9	19.1					
MANZ	e PKPbc	Z	18:42:37.9	152.1	19.5					
	e PKPab	Z	18:42:47.4							
ROTZ	e PKPbc	Z	18:42:38.4	152.3	11.9					
	e PKPab	Z	18:42:48.2							
TNS	e PKPbc	Z	18:42:38.5	152.4	17.6					
	e PKPab	Z	18:42:48.7							
GRA1	e PKPbc	Z	18:42:38.7	152.5	21.2					
	e PKPab	Z	18:42:49.3							
WET	e PKPbc	Z	18:42:38.7	152.5	21.2					
	e PKPab	Z	18:42:49.3							

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GEC2	e	PKPbc	Z	18:42:38.8	152.6	23.0
	e	PKPab	Z	18:42:49.5		
WLF	e	PKPbc	Z	18:42:41.0	153.1	7.5
STU	e	PKPbc	Z	18:42:41.0	153.6	14.1
RJOB	e	PKPbc	Z	18:42:41.2	153.9	22.0
	e	PKPab	Z	18:42:54.9		
BFO	e	PKPbc	Z	18:42:42.5	154.2	12.5
	e	PKPab	Z	18:42:56.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/04	20:37:49.3	2.091S	68.578E	33.0N	4.8			SZGRF
Carlsberg Ridge								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FBE	e P	Z 20:49:02.8	70.7	119.6	1.6	17	4.9		
ROTZ	e P	Z 20:49:03.2	70.8	118.2	1.2	4	4.4		
WERN	e P	Z 20:49:04.5	70.9	118.5	1.3	14	4.9		
MANZ	e P	Z 20:49:02.9	70.9	118.2	1.7	6	4.5		
CLL	e P	Z 20:49:04.9	71.1	119.4	1.2	10	4.8		
GRA1	e P	Z 20:49:05.8	71.3	117.3	1.2	17	5.0		
MOX	e P	Z 20:49:07.8	71.5	117.9	2.2	23	4.9		
BFO	e P	Z 20:49:12.5	72.4	114.5	1.7	18	4.9		
UBBA	e P	Z 20:49:14.0	72.5	116.6	1.7	13	4.8		
CLZ	e P	Z 20:49:16.0	72.7	117.2	1.0	5	4.6		
TNS	e P	Z 20:49:17.9	73.1	115.1	0.8	5	4.7		
NRDL	e P	Z 20:49:19.1	73.2	117.1	1.4	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/05	04:17:15.9	17.110S	176.530W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z 04:36:52.3	145.9	15.2					
GUNZ	e PKPbc	Z 04:36:51.5	146.0	15.3					
WERN	e PKPbc	Z 04:36:51.8	146.1	15.4					
MANZ	e PKPbc	Z 04:36:53.0	146.4	15.0					
ROTZ	e PKPbc	Z 04:36:53.6	146.6	15.3					
TNS	e PKPbc	Z 04:36:53.8	146.6	8.7					
GRA1	e PKPbc	Z 04:36:54.6	146.8	13.6					
WET	e PKPbc	Z 04:36:55.2	147.1	16.7					
GEC2	e PKPbc	Z 04:36:55.4	147.2	18.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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23

2007/10/05 07:33: 0.1
North Sea

53.053N 2.254E 10.0G

3.6 SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e Pn	Z	07:33:52.6	3.4	284.8					3.6
	e Sn	E	07:34:31.5							
HLG	e Sn	N	07:34:33.6	3.5	253.6					4.0
NRDL	e Sn	N	07:35:03.2	4.8	279.8					3.2
BSEG	e Pn	Z	07:34:12.4	4.9	262.8					3.6
	e Sn	N	07:35:05.2							
CLZ	e Pn	Z	07:34:15.3	5.1	287.0					3.8
	e Sn	E	07:35:09.8							
UBBA	e Sn	N	07:35:15.0	5.3	298.1					3.2

Date Origin Time
2007/10/05 07:17:55.0
South of Fiji Islands

Lat Long Depth
25.190S 179.820W 537.2

mb Ms ML Source
SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:36:47.2	150.3	18.7					
	e pPKPab	Z	07:38:53.7							
HLG	e PKPbc	Z	07:36:48.0	150.4	14.2					
NRDL	e PKPpdf	Z	07:36:42.8	151.7	19.2					
	e PKPbc	Z	07:36:50.3							
CLL	e pPKPab	Z	07:38:59.3							
	e PKPpdf	Z	07:36:43.1	152.1	25.4					
BRG	e PKPbc	Z	07:36:51.2							
	e PKPpdf	Z	07:36:43.6	152.2	27.5					
	e PKPbc	Z	07:36:51.6							
	e pPKPab	Z	07:39:01.9							
CLZ	e PKPpdf	Z	07:36:43.7	152.2	20.1					
	e PKPbc	Z	07:36:52.1							
IBBN	e PKPpdf	Z	07:36:43.8	152.3	14.9					
	e pPKPab	Z	07:39:01.3							
TANN	e PKPpdf	Z	07:36:44.7	153.1	25.1					
	e PKPbc	Z	07:36:53.2							
MOX	e PKPpdf	Z	07:36:44.8	153.1	23.3					
	e PKPbc	Z	07:36:53.1							
BUG	e PKPab	Z	07:37:05.2							
	e PKPpdf	Z	07:36:45.2	153.2	14.3					
	e PKPbc	Z	07:36:53.6							
	e PKPab	Z	07:37:05.7							
UBBA	e PKPpdf	Z	07:36:45.0	153.3	20.1					
	e PKPbc	Z	07:36:53.9							
MANZ	e PKPpdf	Z	07:36:45.5	153.5	24.8					
	e PKPbc	Z	07:36:54.5							
ROTZ	e PKPpdf	Z	07:36:45.7	153.7	25.2					

	e	PKPbc	Z	07:36:54.7					
	e	PKPab	Z	07:37:08.4					
	e	pPKPab	Z	07:39:08.5					
GRA1	e	PKPdf	Z	07:36:46.2	154.0	23.3			
	e	PKPab	Z	07:37:10.2					
	e	SKKSac	N	07:46:48.6					
	e	SS	E	07:59:42.6					
WET	e	PKPdf	Z	07:36:46.2	154.1	27.1			
	e	PKPab	Z	07:37:10.0					
GEC2	e	PKPdf	Z	07:36:46.0	154.1	29.0			
	e	PKPbc	Z	07:36:55.6					
	e	PKPab	Z	07:37:09.4					
TNS	e	PKPdf	Z	07:36:46.1	154.2	17.4			
	e	PKPab	Z	07:37:11.0					
WLF	e	PKPdf	Z	07:36:47.6	155.1	12.9			
RJOB	e	PKPdf	Z	07:36:47.3	155.3	28.3			
	e	pPKPab	Z	07:39:15.1					
STU	e	PKPdf	Z	07:36:47.6	155.4	19.9			
FUR	e	PKPdf	Z	07:36:47.9	155.4	24.8			
	e	PKPab	Z	07:37:15.9					
	e	pPKPab	Z	07:39:16.3					
BFO	e	PKPdf	Z	07:36:48.7	156.0	18.4			
	e	PKPab	Z	07:37:18.3					
	e	pPKPab	Z	07:39:16.6					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/05 09:23: 1.3 2.620N 101.150E 27.9 4.8 4.8 ML SZGRF
 Malay Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	09:35:40.7	86.2	90.5	1.1	8	4.8		
	e pP	Z	09:35:49.1							
GEC2	e P	Z	09:35:41.3	86.3	90.2	1.1	8	4.8		
FBE	e P	Z	09:35:42.6	86.6	90.1	1.1	7	4.7		
	e pP	Z	09:35:50.7							
CLL	e P	Z	09:35:43.5	86.8	89.8					
WET	e P	Z	09:35:43.9	86.9	89.6	1.0	8	4.8		
	e pP	Z	09:35:51.9							
WERN	e P	Z	09:35:45.0	87.2	89.3					
WERD	e P	Z	09:35:45.6	87.2	89.2	1.1	6	4.6		
	e pP	Z	09:35:53.8							
MOX	e pP	Z	09:35:55.0	87.7	88.7					
GRA1	e P	Z	09:35:49.4	88.0	88.4	0.7	11	5.3		
	e pP	Z	09:35:57.2							
	e PKKP	Z	09:53:05.9							
	e L	Z	10:32:20.8			19.9	350		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/05	10:15:45.5	45.868N	11.120E	10.0G			3.0	SZGRF

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WTTA	e Pn	Z 10:16:09.3	1.4	194.5					2.9
	e Sg	N 10:16:30.6							
DAVA	e Pn	Z 10:16:12.5	1.7	148.6					2.7
KBA	e Pn	Z 10:16:18.9	2.0	232.5					2.6
	e Sg	N 10:16:46.9							
RJOB	e Pn	Z 10:16:21.7	2.2	212.1					3.1
	e Sg	N 10:16:55.5							
FUR	e Sg	N 10:16:58.2	2.3	182.7					3.3
BFO	e Pn	Z 10:16:31.6	3.1	141.3					2.8
	e Sn	N 10:17:10.4							
WET	e Sn	N 10:17:19.0	3.5	200.6					3.0
GRA1	e Sg	N 10:17:46.3	3.8	181.1					3.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/05	13:31:31.3	22.910S	176.770W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 13:51:19.6	150.6	18.6					
	e PKPab	Z 13:51:23.4							
BRG	e PKPbc	Z 13:51:20.3	150.8	20.6					
FBE	e PKPbc	Z 13:51:20.7	150.9	19.4					
MOX	e PKPbc	Z 13:51:21.8	151.5	16.4					
	e PKPab	Z 13:51:27.1							
WERD	e PKPbc	Z 13:51:22.2	151.6	17.8					
	e PKPab	Z 13:51:27.7							
TANN	e PKPbc	Z 13:51:22.1	151.6	18.1					
	e PKPab	Z 13:51:27.7							
GUNZ	e PKPbc	Z 13:51:22.5	151.6	17.9					
	e PKPab	Z 13:51:28.3							
WERN	e PKPbc	Z 13:51:22.7	151.7	18.0					
	e PKPab	Z 13:51:28.9							
MANZ	e PKPbc	Z 13:51:23.4	152.0	17.7					
ROTZ	e PKPab	Z 13:51:30.9	152.2	18.0					
GRA1	e PKPbc	Z 13:51:25.5	152.5	16.1					
GEC2	e PKPbc	Z 13:51:24.9	152.8	21.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/10/05 14:23:46.3 42.940N 131.500E 33.0N 4.7 SZGRF
 Priamurye-Northeastern China border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:35:02.4	70.9	41.5	1.0	10	4.9		
BRG	e P	Z	14:35:06.7	71.7	43.1	0.7	4	4.7		
CLL	e P	Z	14:35:07.0	71.7	42.6	1.1	11	4.9		
FBE	e P	Z	14:35:08.1	71.9	42.8					
CLZ	e P	Z	14:35:11.4	72.4	41.1	1.2	13	5.0		
TANN	e P	Z	14:35:12.7	72.6	42.1	1.1	3	4.4		
WERD	e P	Z	14:35:13.0	72.7	42.0					
GUNZ	e P	Z	14:35:13.2	72.7	42.0					
WERN	e P	Z	14:35:13.6	72.8	42.0					
MOX	e P	Z	14:35:13.7	72.8	41.6	0.7	4	4.6		
MANZ	e P	Z	14:35:15.4	73.1	41.8	0.8	3	4.5		
ROTZ	e P	Z	14:35:16.4	73.2	41.8	0.9	6	4.6		
GEC2	e P	Z	14:35:15.9	73.2	42.6	1.0	3	4.2		
WET	e P	Z	14:35:17.2	73.4	42.1	1.0	6	4.6		
GRA1	e P	Z	14:35:19.2	73.7	41.2	1.1	19	5.0		
GRFO	e P	Z	14:35:19.5	73.7	41.2					
RJOB	e P	Z	14:35:23.7	74.5	41.8	0.8	6	4.7		
BFO	e P	Z	14:35:31.5	76.0	39.2	0.9	9	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/05 23:17:58.4 45.481N 37.160E 10.0G 4.2
 Ukraine - Moldova - Southwestern Russia region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	23:21:45.3	16.2	93.1	1.1	14	4.0		
BRG	e P	Z	23:21:47.1	16.3	100.2	0.9	12	4.0		
WET	e P	Z	23:21:51.9	16.8	93.4	1.1	13	4.0		
RJOB	e P	Z	23:21:53.5	16.8	88.6	0.8	6	3.8		
CLL	e P	Z	23:21:54.8	17.0	100.6	1.4	42	4.4		
TANN	e P	Z	23:21:56.2	17.2	97.1	1.0	18	4.1		
ROTZ	e P	Z	23:21:59.3	17.3	94.8	0.9	2	3.3		
MOX	e P	Z	23:22:04.3	17.7	97.0	0.8	8	3.9		
FUR	e P	Z	23:22:05.4	17.8	88.9	0.8	13	4.1		
GRA1	e P	Z	23:22:05.8	17.9	93.7	0.8	8	3.9		
CLZ	e P	Z	23:22:14.9	18.7	99.3	0.8	20	4.4		
UBBA	e P	Z	23:22:17.9	18.8	95.9	0.7	5	3.9		
BSEG	e P	Z	23:22:20.6	19.2	105.2	0.8	36	4.7		
TNS	e P	Z	23:22:27.0	19.7	92.8	0.8	8	4.0		
BFO	e P	Z	23:22:27.6	19.8	87.4	0.8	40	4.7		
IBBN	e P	Z	23:22:36.0	20.3	97.8	0.7	39	4.8		
BUG	e P	Z	23:22:36.9	20.5	95.1	0.9	30	4.6		
WLF	e P	Z	23:22:44.4	21.2	89.5	1.0	17	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	02:35:54.4	45.195N	154.584W	33.0N	4.5			SZGRF

South of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:48:23.4	84.3	350.0	0.9	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	02:37:13.9	12.000S	165.900E	28.0				NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 02:56:32.0	135.0	39.0					
GRA1	e PKPdf	Z 02:56:36.2	136.9	37.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	03:03:41.1	23.130S	177.490W	176.1				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 03:23:07.1	148.6	13.9					
NRDL	e PKPbc	Z 03:23:10.7	150.1	14.1					
IBBN	e PKPbc	Z 03:23:12.0	150.5	9.9					
	e pPKPbc	Z 03:23:57.8							
CLZ	e PKPbc	Z 03:23:12.3	150.7	14.9					
CLL	e PKPbc	Z 03:23:12.0	150.7	20.0					
BRG	e PKPbc	Z 03:23:12.6	150.9	22.0					
BUG	e PKPbc	Z 03:23:13.9	151.5	9.2					
	e pPKPbc	Z 03:23:59.8							
MOX	e PKPbc	Z 03:23:13.4	151.6	17.8					
TANN	e PKPbc	Z 03:23:14.4	151.6	19.5					
UBBA	e PKPab	Z 03:23:23.5	151.7	14.7					
ROTZ	e PKPab	Z 03:23:26.3	152.3	19.5					
	e pPKPbc	Z 03:24:01.8							
TNS	e PKPbc	Z 03:23:16.4	152.5	11.9					
	e PKPab	Z 03:23:27.2							
GRA1	e PKPab	Z 03:23:27.8	152.6	17.6					
WET	e PKPbc	Z 03:23:17.2	152.7	21.2					
	e PKPab	Z 03:23:28.7							
	e pPKPbc	Z 03:24:02.6							
GEC2	e PKPbc	Z 03:23:17.0	152.8	23.0					
WLF	e PKPbc	Z 03:23:18.8	153.3	7.5					
	e PKPab	Z 03:23:30.7							

	e pPKPbc	Z	03:24:04.8						
STU	e PKPbc	Z	03:23:17.8	153.8	14.0				
FUR	e PKPab	Z	03:23:33.9	154.0	18.7				
BFO	e PKPab	Z	03:23:34.9	154.4	12.5				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	03:34:24.0	36.818N	21.882E	10.0G	4.0			SZGRF

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 03:37:25.1	12.8	145.2	1.1	14			
GEC2	e P	Z 03:37:33.8	13.4	150.6					
WET	e P	Z 03:37:41.5	14.0	148.7					
GRA1	e P	Z 03:38:01.8	15.0	145.1					
BRG	e P	Z 03:38:02.4	15.2	155.0					
TANN	e P	Z 03:37:58.9	15.2	150.0					
CLL	e P	Z 03:38:10.0	15.8	153.0	1.2	14	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	04:30:19.9	34.731N	26.993E	70.0G	3.8			GSRC

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:34:17.7	17.2	140.3	1.3	5	3.5		
WET	e P	Z 04:34:24.7	17.8	138.9	1.6	10	3.7		
TANN	e P	Z 04:34:38.4	18.9	140.5	1.1	6	3.7		
BFO	e P	Z 04:34:50.4	19.4	127.6	0.7	4	3.8		
CLL	e P	Z 04:34:44.1	19.4	143.3	0.6	6	3.9		
MOX	e P	Z 04:34:45.9	19.4	139.1	1.0	6	3.7		
TNS	e P	Z 04:34:56.0	20.6	131.9	1.4	14	4.1		
CLZ	e P	Z 04:34:57.8	20.8	138.7	2.0	23	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	04:36:46.8	38.541N	41.938E	33.0N	4.2			SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:41:46.5	22.7	106.4	1.3	6	4.0		
GRA1	e P	Z 04:42:03.3	24.5	105.4	1.2	10	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2007/10/06

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:48:53.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	12:38:46.3	18.280N	147.680E	33.0G		5.9		SZGRF

Mariana Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e Pdiff	Z 12:52:26.1	99.1	40.6					
	e PP	Z 12:56:27.6							
	e SP	Z 13:05:25.1							
BRG	e Pdiff	Z 12:52:29.5	99.8	44.1					
	e PP	Z 12:56:33.7							
	e SP	Z 13:05:32.7							
CLL	e Pdiff	Z 12:52:29.7	99.9	43.3					
	e SP	Z 13:05:33.8							
NRDL	e Pdiff	Z 12:52:31.7	100.2	40.6					
	e PP	Z 12:56:36.8							
	e SP	Z 13:05:37.1							
CLZ	e Pdiff	Z 12:52:33.1	100.6	40.9					
	e PP	Z 12:56:40.1							
	e SP	Z 13:05:42.3							
TANN	e Pdiff	Z 12:52:34.0	100.8	42.9					
	e PP	Z 12:56:41.3							
	e SP	Z 13:05:43.8							
MOX	e Pdiff	Z 12:52:34.9	101.0	42.2					
	e SP	Z 13:05:46.7							
MANZ	e Pdiff	Z 12:52:36.4	101.3	42.7					
	e SP	Z 13:05:48.3							
IBBN	e Pdiff	Z 12:52:36.4	101.3	38.6					
	e SP	Z 13:05:48.6							
GEC2	e Pdiff	Z 12:52:36.6	101.4	44.2					
	e PP	Z 12:56:46.1							
	e SP	Z 13:05:54.0							
ROTZ	e Pdiff	Z 12:52:37.2	101.4	42.8					
	e PP	Z 12:56:45.7							
	e SP	Z 13:05:49.7							
UBBA	e Pdiff	Z 12:52:37.0	101.6	40.7					
	e PP	Z 12:56:46.5							
	e SP	Z 13:05:51.5							
WET	e Pdiff	Z 12:52:37.6	101.6	43.4					
	e SP	Z 13:05:55.6							
GRA1	e Pdiff	Z 12:52:39.3	101.9	41.9					
	e Sdiff	R 13:03:47.1							
	e SP	Z 13:05:38.9							

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	e SS	R	13:11:17.9							
	e L	T	13:36:50.6			20.4	3525	5.9		
BUG	e Pdiff	Z	12:52:40.6	102.2	38.2					
	e PP	Z	12:56:51.2							
	e SP	Z	13:05:58.0							
RJOB	e Pdiff	Z	12:52:42.1	102.6	43.6					
	e PP	Z	12:56:55.4							
	e SP	Z	13:05:47.1							
TNS	e Pdiff	Z	12:52:42.2	102.7	39.5					
	e SP	Z	13:06:03.8							
FUR	e Pdiff	Z	12:52:44.2	103.0	42.2					
	e SP	Z	13:05:50.6							
STU	e Pdiff	Z	12:52:46.0	103.5	40.3					
	e SP	Z	13:06:11.1							
WLF	e Pdiff	Z	12:52:49.0	104.0	37.5					
	e SP	Z	13:06:02.0							
BFO	e Pdiff	Z	12:52:49.0	104.2	39.6					
	e SP	Z	13:06:02.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/06	12:56:51.0	45.035N	145.660E	148.1	4.7			SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e pP	Z 13:09:07.9	75.4	32.5					
ROTZ	e pP	Z 13:09:17.2	76.9	31.8					
WET	e pP	Z 13:09:19.2	77.2	32.1					
GRA1	e P	Z 13:08:42.7	77.3	31.1	0.9	6	4.7		
	e pP	Z 13:09:19.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/07	00:13:26.3	18.319N	69.558W	33.0G	4.5			SZGRF

Dominican Republic region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:24:41.6	70.2	275.3	1.3	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/07	06:36:25.4	43.555N	13.148E	10.0G			3.2	SZGRF

Central Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
KBA	e Sn	N 06:38:03.1	3.5	182.3					3.0

WTTA	e Pn	Z	06:37:25.6	3.9	163.5							3.3
ARSA	e Pn	Z	06:37:26.8	4.1	205.1							2.9
	e Sn	N	06:38:13.9									
MOA	e Pn	Z	06:37:31.8	4.4	190.7							3.2
DAVA	e Pn	Z	06:37:32.2	4.4	147.2							3.2
GEC2	e Pn	Z	06:37:43.3	5.3	184.3							
	e Sn	N	06:38:44.7									
WET	e Pn	Z	06:37:47.9	5.6	178.0							
	e Sn	N	06:38:49.8									
ROTZ	e Sn	E	06:39:05.1	6.2	173.7							
GRA1	e Sn	N	06:39:07.0	6.3	167.1							
MANZ	e Sn	N	06:39:10.6	6.5	173.3							
TANN	e Sn	N	06:39:20.8	6.9	175.8							
MOX	e Sn	N	06:39:26.6	7.2	171.1							

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/07

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 10:52:10.8

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/07 13:36: 4.1 36.180N 140.360E 48.3 4.8
Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	13:48:14.4	80.1	38.8	0.9	8	4.6		
BRG	e P	Z	13:48:19.4	81.1	41.1	0.9	6	4.6		
CLL	e P	Z	13:48:19.4	81.1	40.5	0.9	12	4.9		
CLZ	e P	Z	13:48:23.3	81.7	38.7	1.0	9	4.9		
	e pP	Z	13:48:37.4							
TANN	e P	Z	13:48:24.7	82.0	40.0	1.0	2	4.2		
MOX	e P	Z	13:48:25.3	82.2	39.5	1.3	8	4.7		
	e pP	Z	13:48:39.3							
IBBN	e P	Z	13:48:26.2	82.4	36.8	0.7	9	5.1		
MANZ	e P	Z	13:48:27.1	82.5	39.7	0.7	4	4.7		
ROTZ	e P	Z	13:48:27.6	82.6	39.8	0.9	5	4.8		
UBBA	e P	Z	13:48:28.9	82.7	38.3	0.8	2	4.5		
GEC2	e P	Z	13:48:28.4	82.7	40.8	1.2	6	4.7		
	e pP	Z	13:48:42.0							
WET	e P	Z	13:48:29.0	82.8	40.2	1.5	10	4.9		
GRA1	e P	Z	13:48:30.4	83.1	39.1	1.2	21	5.3		
	e pP	Z	13:48:43.9							
TNS	e P	Z	13:48:33.7	83.8	37.2	1.1	6	4.7		
RJOB	e P	Z	13:48:34.1	83.9	40.0	1.4	7	4.7		

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WLF	e P	Z	13:48:40.3	85.1	35.5	1.0	8	4.9
BFO	e P	Z	13:48:41.1	85.3	37.0	0.9	9	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/07	18:30:43.2	12.200N	125.600E	99.0				NEIC
Samar, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 18:43:49.1	93.7	65.5					
CLL	e P	Z 18:43:50.7	94.0	64.8					
GEC2	e P	Z 18:43:54.3	94.6	65.5					
TANN	e P	Z 18:43:54.7	94.7	64.4					
NEUB	e P	Z 18:43:54.4	94.7	63.8					
WERD	e P	Z 18:43:54.8	94.8	64.3					
NKC	e P	Z 18:43:54.6	94.8	64.4					
GUNZ	e P	Z 18:43:54.9	94.8	64.3					
WET	e P	Z 18:43:55.8	95.0	64.8					
MOX	e P	Z 18:43:55.9	95.1	63.7					
MANZ	e P	Z 18:43:56.5	95.1	64.2					
ROTZ	e P	Z 18:43:56.7	95.1	64.2					
GRA1	e P	Z 18:43:59.8	95.7	63.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/08	01:13:42.7	29.472N	65.261E	33.0N	4.4			SZGRF
Pakistan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:21:56.0	45.1	95.8	0.9	5	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/08	08:18:47.0	41.255S	15.640W	33.0N	4.8			SZGRF
Tristan da Cunha region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:32:01.8	94.0	199.9	1.0	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/08	13:22:14.3	37.726N	24.190W	33.0N	4.3	3.4		SZGRF
Azores Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	13:28:01.8	27.9	258.2	1.0	5	4.3	
	e L	Z	13:37:03.5			20.9	115		3.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/08	17:10:39.0	43.730N	146.550E	64.2	5.7			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	17:22:10.4	74.0	33.2	1.1	198	6.1		
BSEG	e P	Z	17:22:18.1	75.4	31.1	0.9	108	6.0		
RUE	e P	Z	17:22:18.7	75.6	33.2	0.9	92	5.9		
	e pP	Z	17:22:36.3							
CLL	e P	Z	17:22:25.2	76.8	32.5	0.8	140	6.1		
BRG	e P	Z	17:22:25.7	76.8	33.1	0.8	31	5.5		
FBE	e P	Z	17:22:26.8	77.0	32.7	0.8	85	5.9		
CLZ	e P	Z	17:22:28.3	77.2	30.9	0.9	98	5.9		
	e pP	Z	17:22:45.7							
IBBN	e P	Z	17:22:30.0	77.6	29.2	0.8	119	6.1		
TANN	e P	Z	17:22:30.8	77.7	32.1					
WERD	e P	Z	17:22:30.9	77.8	32.0	0.9	30	5.4		
GUNZ	e P	Z	17:22:31.3	77.8	32.0	0.8	38	5.6		
	e pP	Z	17:22:48.8							
MOX	e P	Z	17:22:31.2	77.8	31.6	1.0	42	5.5		
	e pP	Z	17:22:48.8							
WERN	e P	Z	17:22:31.7	77.9	32.0	0.7	40	5.6		
UBBA	e P	Z	17:22:33.4	78.2	30.5	1.0	22	5.3		
MANZ	e P	Z	17:22:33.5	78.2	31.8	0.7	22	5.4		
ROTZ	e P	Z	17:22:34.8	78.4	31.8	1.0	38	5.5		
BUG	e P	Z	17:22:34.9	78.5	28.8	0.9	77	5.8		
GEC2	e P	Z	17:22:35.7	78.6	32.7	0.9	26	5.3		
	e pP	Z	17:22:53.3							
WET	e P	Z	17:22:36.4	78.7	32.2	0.9	61	5.6		
	e pP	Z	17:22:54.1							
GRA1	e P	Z	17:22:36.9	78.8	31.2	0.9	115	5.9		
	e pP	Z	17:22:54.4							
	e S	R	17:32:31.7							
TNS	e P	Z	17:22:39.0	79.2	29.4	0.9	41	5.5		
RJOB	e P	Z	17:22:43.1	79.9	32.0	0.9	45	5.4		
FUR	e P	Z	17:22:43.7	80.1	31.1	0.8	89	5.7		
	e pP	Z	17:23:01.3							
STU	e P	Z	17:22:44.4	80.2	29.8	0.8	76	5.7		
	e pP	Z	17:23:02.1							
WLF	e P	Z	17:22:46.1	80.4	27.8	0.9	28	5.2		
	e pP	Z	17:23:03.9							
BFO	e P	Z	17:22:47.8	80.9	29.2	0.9	47	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/08	18:12:18.8	26.696N	84.071E	33.0N	4.6			SZGRF

Nepal-India border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	18:22:05.8	57.6	85.3	0.7	3	4.4		
TANN	e P	Z	18:22:10.7	58.3	85.3	1.1	4	4.3		
WERN	e P	Z	18:22:11.0	58.3	85.2	0.7	3	4.4		
GUNZ	e P	Z	18:22:11.2	58.4	85.2	2.2	30	4.9		
WERD	e P	Z	18:22:11.0	58.4	85.2	2.2	22	4.8		
ROTZ	e P	Z	18:22:12.1	58.5	84.8	1.0	4	4.4		
MANZ	e P	Z	18:22:12.3	58.5	84.8	1.5	8	4.6		
GRA1	e P	Z	18:22:17.2	59.1	84.0	0.8	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/08	18:37:17.6	20.563S	176.405W	330.3				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPbc	Z	18:56:51.6	145.2	16.1					
HLG	e PKPbc	Z	18:56:55.2	146.2	7.2					
BSEG	e PKPbc	Z	18:56:54.9	146.2	11.4					
RUE	e PKPdf	Z	18:56:54.7	147.1	17.8					
IBBN	e PKPbc	Z	18:56:57.2							
	e PKPdf	Z	18:56:56.8	148.1	7.4					
	e PKPbc	Z	18:56:59.9							
CLZ	e PKPab	Z	18:57:03.6							
	e PKPdf	Z	18:56:56.4	148.3	12.1					
	e PKPbc	Z	18:57:00.8							
CLL	e PKPdf	Z	18:56:56.2	148.4	17.0					
	e PKPbc	Z	18:57:00.5							
	e PKPab	Z	18:57:04.2							
BRG	e PKPdf	Z	18:56:57.0	148.6	18.8					
	e PKPbc	Z	18:57:01.3							
FBE	e PKPdf	Z	18:56:57.0	148.7	17.8					
	e PKPbc	Z	18:57:01.7							
	e PKPab	Z	18:57:05.8							
BUG	e PKPdf	Z	18:56:57.8	149.0	6.7					
	e PKPbc	Z	18:57:02.3							
MOX	e PKPdf	Z	18:56:57.9	149.3	14.8					
	e PKPbc	Z	18:57:02.9							
UBBA	e PKPdf	Z	18:56:58.0	149.3	11.8					
	e PKPbc	Z	18:57:03.1							
WERD	e PKPdf	Z	18:56:58.1	149.3	16.1					
	e PKPbc	Z	18:57:03.1							
TANN	e PKPdf	Z	18:56:58.2	149.3	16.4					

	e	PKPbc	Z	18:57:03.2		
	e	PKPab	Z	18:57:08.3		
	e	pPKPbc	Z	18:58:24.3		
GUNZ	e	PKPdf	Z	18:56:58.4	149.4	16.2
	e	PKPbc	Z	18:57:03.5		
	e	PKPab	Z	18:57:08.6		
WERN	e	PKPdf	Z	18:56:58.3	149.5	16.3
	e	PKPbc	Z	18:57:03.8		
	e	PKPab	Z	18:57:09.1		
MANZ	e	PKPdf	Z	18:56:59.0	149.8	16.0
	e	PKPbc	Z	18:57:04.4		
ROTZ	e	PKPdf	Z	18:56:59.1	150.0	16.3
	e	PKPbc	Z	18:57:04.9		
TNS	e	PKPdf	Z	18:56:59.6	150.1	9.1
	e	PKPbc	Z	18:57:05.1		
	e	PKPab	Z	18:57:12.0		
GRA1	e	PKPdf	Z	18:56:59.5	150.2	14.5
	e	PKPbc	Z	18:57:05.3		
WET	e	PKPdf	Z	18:56:59.6	150.5	17.8
	e	PKPbc	Z	18:57:06.0		
	e	PKPab	Z	18:57:13.2		
GEC2	e	PKPdf	Z	18:56:59.9	150.6	19.5
	e	PKPbc	Z	18:57:06.0		
	e	PKPab	Z	18:57:13.5		
	e	pPKPbc	Z	18:58:27.7		
WLF	e	PKPdf	Z	18:57:01.0	150.8	4.9
	e	PKPbc	Z	18:57:07.5		
	e	PKPab	Z	18:57:15.3		
STU	e	PKPdf	Z	18:57:01.7	151.4	11.0
	e	PKPbc	Z	18:57:08.1		
	e	PKPab	Z	18:57:17.3		
FUR	e	PKPdf	Z	18:57:02.0	151.7	15.3
	e	PKPbc	Z	18:57:08.5		
	e	PKPab	Z	18:57:18.4		
RJOB	e	PKPbc	Z	18:57:08.4	151.8	18.5
BFO	e	PKPdf	Z	18:57:02.3	152.0	9.5
	e	PKPbc	Z	18:57:09.2		
	e	PKPab	Z	18:57:19.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/08 19:06:35.9 20.274S 176.459W 33.0N
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 19:26:12.0	145.9	11.4					
CLZ	e	PKPbc	Z 19:26:17.9	148.0	12.1					
CLL	e	PKPbc	Z 19:26:18.0	148.1	17.0					

BRG	e	PKPbc	Z	19:26:18.7	148.3	18.8
FBE	e	PKPbc	Z	19:26:19.0	148.4	17.8
MOX	e	PKPbc	Z	19:26:20.4	149.0	14.8
WERD	e	PKPbc	Z	19:26:20.6	149.0	16.1
TANN	e	PKPbc	Z	19:26:20.4	149.0	16.4
GUNZ	e	PKPbc	Z	19:26:20.8	149.1	16.2
WERN	e	PKPbc	Z	19:26:21.1	149.2	16.3
MANZ	e	PKPbc	Z	19:26:21.7	149.5	16.0
ROTZ	e	PKPbc	Z	19:26:22.1	149.7	16.3
TNS	e	PKPbc	Z	19:26:22.5	149.8	9.2
GRA1	e	PKPbc	Z	19:26:22.8	150.0	14.5
GEC2	e	PKPbc	Z	19:26:23.1	150.3	19.5
WLF	e	PKPbc	Z	19:26:25.0	150.5	5.0
BFO	e	PKPbc	Z	19:26:26.9	151.7	9.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/09	02:35:34.8	8.770N	93.780E	33.0N	4.6			SZGRF
Nicobar Islands, India, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 02:47:23.2	76.8	92.3	0.8	4	4.5		
GEC2	e P	Z 02:47:23.7	76.9	91.6	0.6	6	4.8		
CLL	e P	Z 02:47:26.1	77.4	91.7	0.9	3	4.4		
WET	e P	Z 02:47:26.8	77.4	91.1	0.9	6	4.7		
RJOB	e P	Z 02:47:26.9	77.5	90.7	0.8	4	4.6		
ROTZ	e P	Z 02:47:29.8	77.9	90.7	0.9	5	4.7		
MANZ	e P	Z 02:47:30.2	77.9	90.7	0.7	3	4.5		
GRA1	e P	Z 02:47:33.4	78.5	89.9	1.0	4	4.6		
CLZ	e P	Z 02:47:35.9	79.0	89.7	0.6	6	4.8		
BSEG	e P	Z 02:47:36.1	79.1	90.1	1.2	12	4.8		
STU	e P	Z 02:47:40.4	79.9	88.2	0.6	16	5.1		
BFO	e P	Z 02:47:43.0	80.4	87.5	0.9	4	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/09	03:22:40.0	6.462S	71.749E	33.0N	5.1	4.4		SZGRF
Chagos Archipelago region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 03:34:16.8	74.8	118.1	0.8	10	4.9		
WET	e P	Z 03:34:20.1	75.5	118.5	1.5	21	4.9		
BRG	e P	Z 03:34:22.6	75.7	119.8	1.2	21	5.1		
FUR	e P	Z 03:34:23.5	75.9	117.0	1.3	64	5.6		
ROTZ	e P	Z 03:34:25.1	76.1	118.1	1.4	13	4.9		
MANZ	e P	Z 03:34:25.8	76.3	118.1	1.2	23	5.2		
CLL	e P	Z 03:34:27.0	76.4	119.1	1.1	31	5.3		

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GRA1	e P	Z	03:34:29.4	76.7	117.3					
	e L	Z	04:06:26.1			20.7	176		4.4	
MOX	e P	Z	03:34:29.5	76.9	117.8	1.2	20	5.1		
STU	e P	Z	03:34:32.3	77.5	115.4	1.3	41	5.4		
BFO	e P	Z	03:34:34.1	77.8	114.6	1.2	15	5.0		
UBBA	e P	Z	03:34:35.0	77.9	116.5	1.4	25	5.2		
CLZ	e P	Z	03:34:36.9	78.1	117.0	1.6	31	5.2		
TNS	e P	Z	03:34:38.7	78.5	115.1	1.2	24	5.2		
WLF	e P	Z	03:34:44.7	79.6	113.1	1.2	25	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/09 06:41:0.2 37.210N 31.580W 33.0N 4.8 3.9
 Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	06:47:04.6	29.7	259.7	1.3	29	5.0		
BFO	e P	Z	06:47:14.7	30.9	263.9	1.5	24	4.9		
TNS	e P	Z	06:47:18.5	31.2	260.9	0.9	6	4.6		
UBBA	e P	Z	06:47:27.7	32.3	261.4	1.8	20	4.8		
CLZ	e P	Z	06:47:31.1	32.7	260.2	0.7	6	4.6		
GRA1	e P	Z	06:47:33.2	32.9	264.3	0.7	14	5.0		
	e L	Z	06:58:48.7			18.4	229		3.9	
BSEG	e P	Z	06:47:34.4	33.1	257.0	1.3	40	5.2		
MOX	e P	Z	06:47:36.2	33.3	263.2	0.3	14	5.4		
MANZ	e P	Z	06:47:37.9	33.5	264.6	0.8	5	4.5		
ROTZ	e P	Z	06:47:38.6	33.6	265.0	0.5	4	4.6		
TANN	e P	Z	06:47:40.5	33.8	264.2	1.5	18	4.8		
RJOB	e P	Z	06:47:41.5	33.9	268.5	1.0	12	4.8		
WET	e P	Z	06:47:42.0	34.0	266.5	1.4	17	4.8		
CLL	e P	Z	06:47:43.8	34.2	263.4	0.7	6	4.7		
GEC2	e P	Z	06:47:46.9	34.5	267.6	1.7	15	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/09 07:25:19.8 19.000N 120.250E 42.4 5.0 4.8
 Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	07:37:51.9	85.1	65.6	1.2	32	5.4		
	e pP	Z	07:38:04.3							
CLL	e P	Z	07:37:53.3	85.5	64.9	1.1	22	5.2		
BSEG	e P	Z	07:37:55.3	85.8	63.0	1.1	33	5.4		
GEC2	e P	Z	07:37:56.8	86.1	65.3	1.1	17	5.1		
TANN	e P	Z	07:37:56.6	86.2	64.5	1.4	9	4.7		
	e pP	Z	07:38:09.4							
WET	e P	Z	07:37:59.3	86.5	64.7	1.4	14	4.9		

MOX	e P	Z	07:37:58.9	86.6	63.8	0.9	4	4.6
	e pP	Z	07:38:11.2					
MANZ	e P	Z	07:37:59.2	86.6	64.2	1.4	11	4.8
ROTZ	e P	Z	07:37:59.7	86.6	64.2	1.1	11	4.9
CLZ	e P	Z	07:37:59.6	86.7	63.0	1.2	15	5.0
	e pP	Z	07:38:12.0					
RJOB	e P	Z	07:38:01.5	87.1	64.6	0.6	5	4.8
GRA1	e P	Z	07:38:02.1	87.2	63.5	0.7	11	5.1
	e S	R	07:48:36.7					
	e L	Z	08:23:26.2			21.3	385	4.8
UBBA	e P	Z	07:38:02.6	87.4	62.6	1.7	20	5.2
TNS	e P	Z	07:38:08.4	88.5	61.4	0.9	11	5.1
BFO	e P	Z	07:38:12.5	89.5	61.3	1.8	18	5.0
WLF	e P	Z	07:38:16.5	90.1	59.7	1.0	27	5.4
	e pP	Z	07:38:28.7					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/09 15:03:44.6 5.070S 151.110E 48.4 5.6 ML SZGRF
 New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	15:22:33.1	121.7	47.8					
	e pPKPdf	Z	15:22:47.8							
BRG	e PKPdf	Z	15:22:33.8	122.0	53.0					
CLL	e PKPdf	Z	15:22:33.8	122.2	51.8					
	e pPKPdf	Z	15:22:48.5							
TANN	e PKPdf	Z	15:22:35.7	123.0	51.7					
CLZ	e PKPdf	Z	15:22:36.1	123.1	48.8					
	e pPKPdf	Z	15:22:50.7							
MOX	e PKPdf	Z	15:22:36.1	123.3	50.7					
	e pPKPdf	Z	15:22:50.5							
GEC2	e PKPdf	Z	15:22:36.4	123.3	53.8					
	e pPKPdf	Z	15:22:51.1							
MANZ	e PKPdf	Z	15:22:36.7	123.4	51.5					
	e pPKPdf	Z	15:22:51.3							
ROTZ	e PKPdf	Z	15:22:36.8	123.5	51.8					
	e pPKPdf	Z	15:22:51.5							
WET	e PKPdf	Z	15:22:37.0	123.6	52.8					
	e pPKPdf	Z	15:22:51.7							
UBBA	e PKPdf	Z	15:22:37.3	123.9	48.9					
	e pPKPdf	Z	15:22:52.2							
IBBN	e PKPdf	Z	15:22:37.4	124.0	45.8					
	e pPKPdf	Z	15:22:52.4							
GRA1	e PKPdf	Z	15:22:37.7	124.1	50.8					
	e PP	Z	15:24:44.7							
	e PKKPab	Z	15:32:18.7							
	e SP	Z	15:34:19.2							

	e SKKPbc	Z	15:36:02.0							
	e SS	T	15:41:11.6							
	e L	Z	16:24:06.8			21.2	1537		5.6	
RJOB	e PKPpdf	Z	15:22:38.1	124.4	53.4					
BUG	e PKPpdf	Z	15:22:38.8	124.8	45.7					
	e pPKPpdf	Z	15:22:54.0							
FUR	e PKPpdf	Z	15:22:39.5	125.0	51.7					
TNS	e PKPpdf	Z	15:22:39.8	125.1	47.6					
	e pPKPpdf	Z	15:22:53.8							
STU	e PKPpdf	Z	15:22:40.9	125.7	49.1					
	e pPKPpdf	Z	15:22:55.7							
BFO	e PKPpdf	Z	15:22:41.8	126.4	48.5					
	e pPKPpdf	Z	15:22:56.3							
WLF	e PKPpdf	Z	15:22:43.1	126.5	45.4					
	e pPKPpdf	Z	15:22:57.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/09	15:51:27.4	41.987N	143.665E	33.0N	4.7			SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 16:03:18.3	77.3	35.3	1.1	14	5.0		
BRG	e P	Z 16:03:18.5	77.3	35.9	1.5	8	4.6		
FBE	e P	Z 16:03:19.7	77.5	35.5	0.7	8	5.0		
NEUB	e P	Z 16:03:21.4	77.8	34.5	0.7	10	5.1		
TANN	e P	Z 16:03:23.2	78.3	34.8	1.1	4	4.3		
WERD	e P	Z 16:03:24.0	78.3	34.7	1.5	12	4.7		
GUNZ	e P	Z 16:03:24.2	78.3	34.7	0.7	5	4.6		
MOX	e P	Z 16:03:24.0	78.4	34.3	1.1	8	4.7		
WERN	e P	Z 16:03:24.8	78.4	34.8	0.6	4	4.5		
MANZ	e P	Z 16:03:26.4	78.7	34.6	1.1	5	4.4		
ROTZ	e P	Z 16:03:27.7	78.9	34.6	1.0	5	4.5		
GEC2	e P	Z 16:03:27.8	79.1	35.5	0.6	3	4.5		
WET	e P	Z 16:03:28.8	79.1	35.0	0.9	5	4.6		
GRA1	e P	Z 16:03:30.1	79.3	33.9	1.4	23	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/09	16:00:46.5	43.450N	77.920E	20.9	4.8			SZGRF

Lake Issyk-Kul, Kyrgyzstan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:08:42.1	42.7	74.0	2.0	48	4.9		
	e pP	Z 16:08:48.0							
CLL	e P	Z 16:08:45.4	43.2	73.9	1.0	15	4.7		
	e pP	Z 16:08:51.4							

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GEC2	e P	Z	16:08:48.3	43.5	71.8	0.9	6	4.3
TANN	e P	Z	16:08:50.5	43.8	72.7	1.0	11	4.5
	e pP	Z	16:08:56.0					
WET	e P	Z	16:08:51.6	43.9	71.7	1.1	13	4.6
	e pP	Z	16:08:57.3					
BSEG	e P	Z	16:08:53.1	44.0	74.9	1.2	20	4.7
MANZ	e P	Z	16:08:53.4	44.1	72.1	1.2	8	4.3
	e pP	Z	16:08:58.7					
ROTZ	e P	Z	16:08:53.6	44.1	71.9	1.2	10	4.4
	e pP	Z	16:08:59.3					
MOX	e P	Z	16:08:54.0	44.2	72.4	1.0	11	4.5
RJOB	e P	Z	16:08:55.5	44.4	70.2	0.7	4	4.5
CLZ	e P	Z	16:08:57.3	44.6	72.9	1.0	11	4.8
GRA1	e P	Z	16:08:58.9	44.7	71.3	0.9	28	5.2
	e pP	Z	16:09:03.9					
FUR	e P	Z	16:09:02.6	45.2	69.9	0.6	26	5.3
IBBN	e P	Z	16:09:08.2	46.0	71.7	1.1	15	4.9
TNS	e P	Z	16:09:10.3	46.3	70.2	0.9	7	4.7
	e pP	Z	16:09:15.8					
STU	e P	Z	16:09:10.6	46.3	69.3	1.0	18	5.1
BUG	e P	Z	16:09:12.7	46.6	70.6	1.5	31	5.2
BFO	e P	Z	16:09:15.8	47.0	68.5	1.1	16	5.1
	e pP	Z	16:09:21.3					
WLF	e P	Z	16:09:22.9	47.8	68.5	1.1	22	5.2
	e pP	Z	16:09:28.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	00:15:16.5	43.800N	127.800W	10.0	4.6			NEIC
Off coast of Oregon, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 00:27:21.9	79.0	332.3	0.9	6	4.6		
BRG	e P	Z 00:27:25.4	79.7	333.0	0.9	5	4.4		
GRA1	e P	Z 00:27:25.4	79.9	331.3	0.9	4	4.3		
GEC2	e P	Z 00:27:34.1	81.4	333.0	2.3	30	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	00:19:17.8	2.610S	98.900E	44.2	5.7	5.7		SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 00:32:06.2	88.8	95.3	1.8	148	6.0		
	e S	T 00:42:52.8							
BRG	e P	Z 00:32:07.2	88.8	95.6	1.7	98	5.9		
	e S	T 00:42:51.0							

RUE	e P	Z	00:32:08.1	89.1	95.5	1.3	139	6.1
FBE	e P	Z	00:32:09.0	89.2	95.1	1.5	100	5.9
RJOB	e P	Z	00:32:08.8	89.3	94.6	2.2	116	5.7
	e S	T	00:42:54.9					
WET	e P	Z	00:32:09.7	89.4	94.7	1.8	100	5.8
	e S	T	00:42:56.3					
CLL	e P	Z	00:32:09.6	89.5	94.8	1.5	57	5.6
	e S	T	00:42:56.6					
RGN	e P	Z	00:32:10.5	89.6	95.1	1.2	103	5.9
TANN	e P	Z	00:32:11.4	89.7	94.4	2.1	89	5.6
	e S	T	00:42:59.9					
WERN	e P	Z	00:32:11.8	89.8	94.3	2.6	168	5.8
GUNZ	e P	Z	00:32:11.8	89.8	94.3	1.6	63	5.6
WERD	e P	Z	00:32:11.8	89.8	94.3	1.6	52	5.5
ROTZ	e P	Z	00:32:12.4	89.9	94.2	1.8	86	5.7
	e S	T	00:43:02.4					
MANZ	e P	Z	00:32:12.8	89.9	94.1	1.6	112	5.8
	e S	T	00:43:01.9					
MOX	e P	Z	00:32:14.0	90.3	93.8	2.3	159	5.8
	e S	T	00:43:04.1					
FUR	e P	Z	00:32:13.9	90.4	93.5	1.6	56	5.6
	e S	T	00:43:05.0					
GRA1	e P	Z	00:32:15.2	90.5	93.5	1.8	126	5.9
	e pP	Z	00:32:28.1					
	e PP	Z	00:35:55.0					
	e S	T	00:43:06.9					
	e SS	T	00:49:12.9					
	e L	Z	01:20:34.6			20.3	2918	5.7
CLZ	e P	Z	00:32:17.9	91.1	92.8	1.7	88	5.7
	e S	T	00:43:11.3					
BSEG	e P	Z	00:32:18.4	91.3	92.7	1.9	90	5.8
	e S	T	00:43:15.2					
UBBA	e P	Z	00:32:18.6	91.3	92.5	1.4	10	4.9
	e S	T	00:43:13.9					
STU	e P	Z	00:32:20.7	91.8	91.9			
	e S	T	00:43:18.1					
TNS	e P	Z	00:32:23.4	92.3	91.3	1.1	24	5.4
	e S	T	00:43:23.5					
BFO	e P	Z	00:32:23.0	92.3	91.3	5.3	879	6.3
	e S	T	00:43:23.9					
IBBN	e P	Z	00:32:25.4	92.8	90.7			
	e S	T	00:43:26.7					
BUG	e P	Z	00:32:26.7	93.1	90.4	1.6	34	5.4
	e S	T	00:43:29.0					
WLF	e P	Z	00:32:30.3	93.8	89.6	1.5	21	5.3
	e S	T	00:43:34.6					

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	01:51: 0.3	15.160S	172.910W	14.0				SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e PKPbc	Z 02:10:35.6	144.9	2.3					
MANZ	e PKPbc	Z 02:10:35.7	144.9	8.4					
ROTZ	e PKPbc	Z 02:10:36.5	145.1	8.7					
GRA1	e PKPbc	Z 02:10:37.0	145.3	7.0					
WLF	e PKPbc	Z 02:10:37.9	145.5	358.4					
WET	e PKPbc	Z 02:10:38.2	145.7	9.9					
GEC2	e PKPbc	Z 02:10:38.6	145.9	11.4					
STU	e PKPbc	Z 02:10:40.7	146.3	3.7					
BFO	e PKPbc	Z 02:10:41.1	146.8	2.2					
FUR	e PKPbc	Z 02:10:42.0	146.8	7.4					
RJOB	e PKPbc	Z 02:10:42.9	147.1	10.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	05:18: 3.0	25.000S	179.250E	550.2				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z 05:37:50.3	149.9	20.3					
CLL	e PKPbc	Z 05:37:54.5	151.7	27.0					
BRG	e PKPab	Z 05:38:06.1							
	e PKPpdf	Z 05:37:47.9	151.8	29.1					
	e PKPbc	Z 05:37:54.9							
CLZ	e PKPab	Z 05:38:06.7							
	e PKPpdf	Z 05:37:47.8	151.9	21.8					
	e PKPbc	Z 05:37:55.1							
IBBN	e pPKPpdf	Z 05:39:56.9							
	e PKPbc	Z 05:37:55.5	151.9	16.6					
	e PKPab	Z 05:38:07.1							
TANN	e PKPpdf	Z 05:37:49.4	152.6	26.8					
	e PKPbc	Z 05:37:56.6							
MOX	e PKPbc	Z 05:37:56.3	152.6	25.0					
UBBA	e PKPbc	Z 05:37:56.0	152.9	21.8					
MANZ	e PKPpdf	Z 05:37:49.3	153.1	26.5					
	e PKPbc	Z 05:37:57.7							
ROTZ	e PKPbc	Z 05:37:57.6	153.3	26.9					
	e PKPab	Z 05:38:13.5							
GEC2	e PKPpdf	Z 05:37:49.9	153.6	30.6					
	e PKPbc	Z 05:37:58.3							
	e PKPab	Z 05:38:14.5							
GRA1	e PKPbc	Z 05:37:58.6	153.6	25.0					
	e PKPab	Z 05:38:14.8							
WET	e PKPab	Z 05:38:15.1	153.6	28.7					

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TNS	e	PKPbc	Z	05:37:58.0	153.8	19.1
	e	PKPab	Z	05:38:14.9		
WLF	e	PKPdf	Z	05:37:52.8	154.8	14.8
	e	PKPbc	Z	05:38:01.5		
RJOB	e	PKPab	Z	05:38:20.9	154.9	30.0
FUR	e	PKPab	Z	05:38:21.1	155.0	26.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	06:23:14.0	56.300N	152.900W	12.0	4.9			NEIC
Kodiak Island, Alaska, United States, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 06:34:42.0	72.3	352.4	2.0	38	5.2		
WERD	e P	Z 06:34:42.3	72.6	351.5	2.3	38	5.1		
TANN	e P	Z 06:34:42.3	72.6	351.6	1.3	7	4.6		
GUNZ	e P	Z 06:34:44.4	72.6	351.5	1.9	20	4.9		
WERN	e P	Z 06:34:44.4	72.7	351.5	1.6	19	5.0		
GRA1	e P	Z 06:34:47.4	73.2	350.9	0.8	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	11:21:29.7	25.920S	179.710W	527.2				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 11:40:22.9	151.0	18.9					
	e PKPab	Z 11:40:32.5							
RUE	e PKPbc	Z 11:40:24.1	151.6	26.1					
CLL	e PKPbc	Z 11:40:26.8	152.8	25.7					
	e PKPab	Z 11:40:39.9							
	e pPKPbc	Z 11:42:30.1							
BRG	e PKPbc	Z 11:40:27.1	153.0	27.8					
	e PKPab	Z 11:40:40.7							
CLZ	e PKPbc	Z 11:40:27.3	153.0	20.3					
	e PKPab	Z 11:40:40.9							
IBBN	e PKPab	Z 11:40:40.9	153.0	14.9					
FBE	e PKPbc	Z 11:40:27.4	153.1	26.7					
	e PKPab	Z 11:40:41.5							
TANN	e PKPab	Z 11:40:44.4	153.8	25.4					
MOX	e PKPbc	Z 11:40:28.9	153.8	23.6					
	e PKPab	Z 11:40:44.2							
GUNZ	e PKPab	Z 11:40:45.0	153.9	25.2					
WERN	e PKPab	Z 11:40:45.2	153.9	25.4					
MANZ	e PKPab	Z 11:40:46.4	154.3	25.1					
ROTZ	e PKPab	Z 11:40:47.4	154.4	25.5					
GRA1	e PKPab	Z 11:40:48.9	154.8	23.6					

	e pPKPab	Z	11:42:50.0					
WET	e PKPab	Z	11:40:49.0	154.8	27.4			
GEC2	e PKPab	Z	11:40:47.8	154.8	29.3			
TNS	e PKPab	Z	11:40:48.9	154.9	17.5			
RJOB	e PKPab	Z	11:40:54.6	156.1	28.7			
FUR	e PKPab	Z	11:40:54.6	156.1	25.1			
BFO	e PKPab	Z	11:40:56.7	156.7	18.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	12:25:33.0	9.076N	91.805E	33.0N	4.9	5.0		SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 12:37:13.1	75.3	93.6	1.2	12	4.8		
GEC2	e P	Z 12:37:15.2	75.4	92.9	1.7	19	4.9		
FBE	e P	Z 12:37:15.4	75.7	93.2	1.3	21	5.1		
CLL	e P	Z 12:37:17.1	75.9	93.0	1.1	8	4.7		
TANN	e P	Z 12:37:18.0	76.2	92.4	1.4	9	4.7		
GUNZ	e P	Z 12:37:17.5	76.3	92.3	1.2	11	4.9		
WERD	e P	Z 12:37:19.8	76.3	92.3	1.6	16	4.9		
ROTZ	e P	Z 12:37:19.2	76.4	92.0	2.1	37	5.1		
MANZ	e P	Z 12:37:20.8	76.4	92.0	1.8	25	5.0		
GRA1	e P	Z 12:37:23.0	77.0	91.2	0.9	12	5.0		
	e L	Z 13:15:59.7			18.3	610		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	15:39: 6.3	44.400N	149.100E	33.0	4.5			GSRC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:51:10.2	79.0	29.2	1.1	6	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/10	21:27:33.2	36.390N	28.950E	33.0G	4.3	3.4		SZGRF

Dodecanese Islands, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z 21:31:29.7	16.4	127.7	1.9	30			
GEC2	e P	Z 21:31:32.1	16.7	132.5	1.0	16	4.1		
WET	e P	Z 21:31:38.4	17.3	131.5	0.9	16	4.1		
FUR	e P	Z 21:31:40.7	17.5	125.7	0.7	39	4.6		
BRG	e P	Z 21:31:47.6	18.0	137.7	1.2	15	4.0		

ROTZ	e P	Z	21:31:47.9	18.0	131.5	0.8	11	4.0	
MANZ	e P	Z	21:31:49.7	18.2	131.8	1.5	49	4.4	
TANN	e P	Z	21:31:51.2	18.4	133.5	1.0	27	4.3	
GRA1	e P	Z	21:31:52.8	18.5	129.3	1.0	14	4.2	
	e L	Z	22:09:48.7			18.7	183		3.4
CLL	e P	Z	21:31:55.9	18.8	136.5	0.8	27	4.5	
MOX	e P	Z	21:31:57.7	18.9	132.3	0.8	37	4.7	
STU	e P	Z	21:31:59.7	19.0	123.3	0.7	19	4.4	
BFO	e P	Z	21:32:02.0	19.3	120.7	0.8	13	4.2	
UBBA	e P	Z	21:32:06.8	19.8	129.5	1.4	8	3.7	
TNS	e P	Z	21:32:10.9	20.2	125.3	0.8	14	4.2	
CLZ	e P	Z	21:32:11.8	20.3	132.3	0.9	22	4.4	
WLF	e P	Z	21:32:21.0	21.2	120.2	1.1	12	4.2	
BSEG	e P	Z	21:32:27.7	21.8	136.1	1.1	18	4.4	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/10 23:11:39.9 22.449S 170.833E 33.0N 5.1
 Southeast of Loyalty Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	23:31:17.4	146.4	40.9					
CLL	e PKPbc	Z	23:31:17.3	146.4	39.1					
FBE	e PKPbc	Z	23:31:18.3	146.6	40.0					
CLZ	e PKPbc	Z	23:31:19.6	147.0	34.5					
WERD	e PKPbc	Z	23:31:21.0	147.4	38.9					
GUNZ	e PKPbc	Z	23:31:19.0	147.4	39.0					
WERN	e PKPbc	Z	23:31:21.5	147.5	39.1					
MOX	e PKPbc	Z	23:31:19.2	147.5	37.6					
MANZ	e PKPbc	Z	23:31:22.8	147.8	39.0					
ROTZ	e PKPbc	Z	23:31:20.8	147.9	39.4					
UBBA	e PKPbc	Z	23:31:20.4	147.9	34.9					
GEC2	e PKPbc	Z	23:31:20.6	148.0	42.7					
WET	e PKPbc	Z	23:31:23.0	148.1	41.1					
GRA1	e PKPbc	Z	23:31:23.0	148.4	37.9					
BFO	e PKPbc	Z	23:31:29.4	150.6	34.5					
GRA1	e L	Z	00:36:25.6	148.4	37.9	20.0	312		5.1	

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/11

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z	01:55:40.9							
CLL	e PKP	Z	01:55:40.6							
FBE	e PKP	Z	01:55:41.4							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/11	05:31:28.4	19.895S	170.660E	33.0N				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 05:50:54.0	142.8	31.5					
BRG	e PKPbc	Z 05:50:57.1	144.0	39.2					
CLL	e PKPbc	Z 05:50:57.4	144.0	37.5					
	e PP	Z 05:54:16.2							
FBE	e PKPbc	Z 05:50:58.8	144.2	38.3					
CLZ	e PKPbc	Z 05:50:59.9	144.5	33.1					
TANN	e PKPbc	Z 05:51:00.3	144.9	37.4					
IBBN	e PKPbc	Z 05:51:00.9	145.0	28.8					
WERD	e PKPbc	Z 05:51:00.4	145.0	37.2					
GUNZ	e PKPbc	Z 05:51:00.9	145.0	37.3					
WERN	e PKPbc	Z 05:51:01.0	145.1	37.4					
MOX	e PKPbc	Z 05:51:00.7	145.1	36.0					
	e PP	Z 05:54:22.2							
MANZ	e PKPbc	Z 05:51:02.0	145.4	37.3					
	e PP	Z 05:54:23.2							
UBBA	e PKPbc	Z 05:51:02.2	145.5	33.4					
ROTZ	e PKPbc	Z 05:51:02.7	145.6	37.6					
GEC2	e PKPbc	Z 05:51:02.5	145.7	40.7					
	e PP	Z 05:54:23.4							
WET	e PKPbc	Z 05:51:03.1	145.8	39.2					
BUG	e PKPbc	Z 05:51:03.2	145.9	28.6					
GRA1	e PKPbc	Z 05:51:04.3	146.0	36.2					
TNS	e PKPbc	Z 05:51:06.1	146.6	31.4					
RJOB	e PKPbc	Z 05:51:06.7	146.9	40.4					
FUR	e PKPbc	Z 05:51:07.9	147.2	37.7					
STU	e PKPbc	Z 05:51:08.3	147.5	33.8					
WLF	e PKPbc	Z 05:51:09.7	147.8	28.1					
BFO	e PKPbc	Z 05:51:10.2	148.2	32.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/11	16:25: 5.4	49.200S	164.000E	8.0		5.0		NEIC

Auckland Islands, New Zealand, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e PKPab	Z 16:45:50.1	161.0	105.2					
WET	e PKPab	Z 16:45:51.0	161.2	101.2					
ROTZ	e PKPab	Z 16:45:53.7	161.8	99.1					
MANZ	e PKPab	Z 16:45:54.1	161.9	98.4					
GRA1	e PKPab	Z 16:45:56.2	162.4	98.9					
	e PP	Z 16:49:36.9							
	e L	Z 18:05:04.4			21.3	231		5.0	
CLZ	e PKPab	Z 16:46:00.3	163.1	91.5					

BFO	e	PKPab	Z	16:46:02.9	164.0	102.3
TNS	e	PKPab	Z	16:46:04.3	164.2	95.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/11	20:38:30.8	4.250S	101.640E	27.0	5.3	5.0		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:51:36.9	91.8	94.5	1.2	14	5.2		
	e pP	Z	20:51:44.8							
RUE	e P	Z	20:51:38.0	92.1	94.3	1.2	31	5.5		
FBE	e P	Z	20:51:38.9	92.2	94.0	2.7	178	5.9		
RJOB	e S	T	21:02:36.6	92.4	93.7					
WET	e P	Z	20:51:39.3	92.4	93.7	1.1	12	5.1		
	e pP	Z	20:51:47.3							
	e S	T	21:02:39.9							
CLL	e P	Z	20:51:39.5	92.5	93.7	1.4	13	5.1		
	e S	T	21:02:39.9							
TANN	e P	Z	20:51:41.0	92.8	93.3	1.6	12	5.1		
	e S	T	21:02:45.4							
WERN	e P	Z	20:51:41.4	92.8	93.3	1.4	11	5.1		
GUNZ	e P	Z	20:51:41.4	92.8	93.2	1.1	10	5.2		
	e pP	Z	20:51:49.2							
WERD	e P	Z	20:51:41.6	92.9	93.2	1.5	15	5.2		
ROTZ	e P	Z	20:51:42.0	92.9	93.2	1.2	12	5.2		
	e S	T	21:02:46.5							
MANZ	e P	Z	20:51:42.5	93.0	93.1	1.1	16	5.4		
	e pP	Z	20:51:50.2							
	e S	T	21:02:48.7							
MOX	e P	Z	20:51:43.1	93.3	92.7	1.0	6	5.0		
	e S	T	21:02:49.8							
FUR	e S	T	21:02:48.7	93.4	92.6					
GRA1	e P	Z	20:51:44.4	93.5	92.4	1.0	10	5.2		
	e pP	Z	20:51:52.4							
	e S	T	21:02:53.1							
	e SS	T	21:09:07.1							
	e L	Z	21:43:03.0			20.4	500		5.0	
BSEG	e P	Z	20:51:46.6	94.2	91.4	1.8	57	5.6		
	e S	T	21:02:56.5							
UBBA	e S	T	21:02:57.6	94.3	91.4					
STU	e S	T	21:03:04.2	94.8	91.0					
TNS	e P	Z	20:51:52.4	95.3	90.3	1.2	9	5.1		
	e S	T	21:03:07.5							
BFO	e S	T	21:03:07.5	95.4	90.4					
BUG	e P	Z	20:51:55.6	96.0	89.2	0.7	6	5.2		
	e S	T	21:03:14.2							
WLF	e S	T	21:03:19.7	96.8	88.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/11	22:42:10.2	17.030N	46.750W	33.0N	5.1			SZGRF
Northern Mid-Atlantic Ridge								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	22:51:27.1	53.4	251.8	2.0	49	5.1		
BFO	e P	Z	22:51:34.2	54.4	254.7	1.8	43	5.2		
TNS	e P	Z	22:51:38.6	55.0	253.5	1.0	12	4.9		
STU	e P	Z	22:51:38.6	55.0	255.2	0.9	18	5.1		
FUR	e P	Z	22:51:48.2	56.2	257.4	0.5	24	5.5		
GRA1	e P	Z	22:51:49.7	56.5	256.3	1.7	39	5.2		
CLZ	e P	Z	22:51:50.0	56.6	254.2	1.8	42	5.2		
MOX	e P	Z	22:51:53.4	57.0	256.1	1.1	6	4.6		
BSEG	e P	Z	22:51:53.9	57.1	252.8	1.4	43	5.3		
RJOB	e P	Z	22:51:54.0	57.1	258.9	0.9	8	4.8		
MANZ	e P	Z	22:51:53.9	57.2	256.9	1.9	25	4.9		
ROTZ	e P	Z	22:51:54.5	57.2	257.1	1.5	16	4.8		
WET	e P	Z	22:51:56.5	57.5	258.1	1.8	42	5.2		
TANN	e P	Z	22:51:56.6	57.5	256.9	2.0	79	5.4		
CLL	e P	Z	22:52:00.3	58.0	256.9	1.7	40	5.2		
BRG	e P	Z	22:52:04.0	58.5	257.9	2.0	53	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/12	00:31:27.3	4.490S	100.290E	26.5	5.7	5.3		SZGRF
Southwest of Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	00:44:30.3	91.1	95.5	1.4	103	6.0		
	e PP	Z	00:48:06.1							
	e S	T	00:55:24.1							
BRG	e P	Z	00:44:29.9	91.2	95.7	1.3	55	5.7		
	e S	T	00:55:23.6							
RJOB	e P	Z	00:44:31.8	91.6	94.9	1.6	46	5.5		
	e PP	Z	00:48:14.3							
	e S	T	00:55:26.3							
WET	e P	Z	00:44:32.8	91.7	94.9	1.3	54	5.7		
	e pP	Z	00:44:40.3							
	e S	T	00:55:29.9							
CLL	e P	Z	00:44:32.7	91.8	94.9	1.5	41	5.5		
	e S	T	00:55:29.5							
TANN	e P	Z	00:44:33.8	92.1	94.5	1.6	45	5.6		
	e pP	Z	00:44:41.8							
	e S	T	00:55:31.8							
ROTZ	e P	Z	00:44:35.0	92.2	94.4	1.4	44	5.6		

	e PP	Z	00:48:24.6								
	e S	T	00:55:34.4								
MANZ	e P	Z	00:44:35.8	92.3	94.3	1.4		75	5.8		
	e PP	Z	00:48:18.8								
	e S	T	00:55:35.9								
MOX	e P	Z	00:44:36.4	92.6	93.9	1.4		33	5.6		
	e PP	Z	00:48:21.7								
	e S	T	00:55:36.9								
FUR	e P	Z	00:44:36.8	92.7	93.7	1.4		42	5.7		
	e pP	Z	00:44:44.5								
	e S	T	00:55:35.7								
GRA1	e P	Z	00:44:38.2	92.8	93.6	1.4		58	5.8		
	e pP	Z	00:44:45.8								
	e PP	Z	00:48:29.8								
	e S	T	00:55:41.1								
	e L	Z	01:34:18.0			18.6		1113		5.3	
CLZ	e P	Z	00:44:41.2	93.5	92.8	1.4		38	5.6		
	e S	T	00:55:42.4								
BSEG	e S	T	00:55:44.6	93.6	92.7						
UBBA	e P	Z	00:44:40.9	93.7	92.6	1.8		52	5.6		
	e PP	Z	00:48:35.3								
	e S	T	00:55:45.9								
STU	e P	Z	00:44:43.5	94.1	92.1	1.8		46	5.5		
	e PP	Z	00:48:36.9								
	e S	T	00:55:50.1								
TNS	e P	Z	00:44:45.8	94.6	91.5	1.6		47	5.7		
	e S	T	00:55:54.4								
BFO	e S	T	00:55:56.3	94.7	91.5						
BUG	e S	T	00:56:02.3	95.4	90.4						
WLF	e P	Z	00:44:52.9	96.1	89.8	2.0		49	5.7		
	e PP	Z	00:48:52.4								
	e S	T	00:56:08.8								

Date 2007/10/12
 Origin Time 01:43:25.8
 Lat 15.300S
 Long 173.400W
 Depth 10.0
 mb
 Ms
 ML
 Source NEIC
 Tonga Islands

Sta GRA1
 Phase e PKP
 Time Z 02:03:22.0
 Dist 145.4
 BAz 7.9
 T[s]
 A[nm]
 mb
 MS
 ML

Date 2007/10/12
 Origin Time 08:23:17.5
 Lat 17.400S
 Long 171.500W
 Depth 35.0
 mb
 Ms
 ML
 Source SZGRF
 Tonga Islands region

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

CLZ	e	PKPbc	Z	08:42:51.7	145.5	3.2
CLL	e	PKPbc	Z	08:42:53.4	145.9	7.7
BRG	e	PKPbc	Z	08:42:53.9	146.2	9.4
FBE	e	PKPbc	Z	08:42:54.2	146.3	8.4
MOX	e	PKPbc	Z	08:42:54.7	146.7	5.4
WERD	e	PKPbc	Z	08:42:55.7	146.8	6.6
TANN	e	PKPbc	Z	08:42:55.7	146.8	6.9
GUNZ	e	PKPbc	Z	08:42:56.3	146.9	6.7
WERN	e	PKPbc	Z	08:42:55.9	147.0	6.8
MANZ	e	PKPbc	Z	08:42:57.3	147.3	6.4
GRA1	e	PKPbc	Z	08:42:58.0	147.6	4.9
GEC2	e	PKPbc	Z	08:42:59.7	148.3	9.5
BFO	e	PKPbc	Z	08:43:02.2	149.1	359.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/12	11:33:33.6	5.700S	146.000E	56.0				NEIC
Eastern New Guinea, Papua New Guinea, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SKPdf	Z 11:55:33.8	121.9	56.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 13:04:50.9							
	e Sn	N 13:05:22.2							
DAVA	e Pn	Z 13:04:57.2							
	e Sn	E 13:05:25.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/12	14:43:10.2	33.400S	178.900W	33.0				GSRC
South of Kermadec Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPab	Z 15:03:44.1	160.1	30.4					
BRG	e PKPab	Z 15:03:45.7	160.2	33.2					
FBE	e PKPab	Z 15:03:45.4	160.3	31.8					
IBBN	e PKPab	Z 15:03:45.8	160.5	16.9					
NEUB	e PKPab	Z 15:03:47.2	160.6	27.7					
TANN	e PKPab	Z 15:03:49.9	161.1	30.4					
WERD	e PKPab	Z 15:03:48.8	161.1	30.0					
MOX	e PKPab	Z 15:03:49.0	161.1	28.1					

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GUNZ	e	PKPab	Z	15:03:49.2	161.1	30.2
WERN	e	PKPab	Z	15:03:49.5	161.2	30.4
NKC	e	PKPab	Z	15:03:50.6	161.2	30.7
MANZ	e	PKPab	Z	15:03:51.3	161.5	30.2
ROTZ	e	PKPab	Z	15:03:51.1	161.7	30.8
GEC2	e	PKPab	Z	15:03:52.5	161.9	35.9
WET	e	PKPab	Z	15:03:53.5	162.0	33.4
GRA1	e	PKPab	Z	15:03:53.2	162.1	28.5
TNS	e	PKPab	Z	15:03:53.9	162.3	20.6
RJOB	e	PKPab	Z	15:03:58.7	163.2	35.8
BFO	e	PKPab	Z	15:04:01.7	164.1	22.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/13	02:22:43.1	54.300S	159.100E	26.1		5.4		NEIC

Macquarie Island, Australia, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e	PKPab	Z 02:43:11.7	158.7	116.9					
BRG	e	PKPab	Z 02:43:13.1	158.8	112.9					
ROTZ	e	PKPab	Z 02:43:15.3	159.3	115.4					
	e	pPKPab	Z 02:43:23.0							
MANZ	e	PKPab	Z 02:43:16.6	159.5	114.9					
CLL	e	PKPab	Z 02:43:15.3	159.5	111.7					
GRA1	e	PKPdf	Z 02:42:34.8	159.9	115.6					
	e	PKPab	Z 02:43:17.3							
	e	PP	Z 02:46:57.7							
	e	L	Z 04:05:08.5			18.9	506		5.4	
MOX	e	PKPab	Z 02:43:18.1	160.0	113.2					
STU	e	PKPab	Z 02:43:20.6	160.6	118.0					
	e	pPKPab	Z 02:43:28.3							
BFO	e	PKPab	Z 02:43:21.7	160.9	119.2					
UBBA	e	PKPab	Z 02:43:23.0	161.1	112.6					
CLZ	e	PKPab	Z 02:43:23.0	161.2	109.9					
TNS	e	PKPab	Z 02:43:25.5	161.7	114.2					
	e	pPKPab	Z 02:43:33.2							
WLF	e	PKPab	Z 02:43:29.3	162.8	116.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/13	03:58:35.3	7.360N	82.580W	33.0N	5.1	4.7		SZGRF

South of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e	P	Z 04:11:00.4	83.6	273.8	1.6	46	5.5		
BUG	e	P	Z 04:11:03.5	84.2	274.5	1.1	28	5.4		
IBBN	e	P	Z 04:11:05.3	84.4	274.8	1.3	24	5.3		

TNS	e P	Z	04:11:08.0	85.0	275.5	1.3	15	5.1		
STU	e P	Z	04:11:11.6	85.6	276.2	1.6	37	5.3		
BSEG	e P	Z	04:11:11.8	85.8	276.7	1.8	48	5.3		
UBBA	e P	Z	04:11:13.2	85.9	276.7	2.1	32	5.1		
CLZ	e P	Z	04:11:13.1	86.0	276.9	1.2	15	5.0		
GRA1	e P	Z	04:11:17.2	86.8	277.7	1.4	17	5.0		
	e L	Z	04:44:35.9			21.8	299		4.7	
MOX	e P	Z	04:11:17.8	87.0	277.9	1.1	6	4.6		
TANN	e P	Z	04:11:20.7	87.5	278.6	1.3	10	5.0		
CLL	e P	Z	04:11:21.2	87.7	278.9	1.2	8	4.9		
WET	e P	Z	04:11:22.4	88.0	278.9	1.2	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/13	11:06:39.5	50.585N	177.239W	22.2	4.7			SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:18:21.8	75.3	5.0	1.1	22	5.2		
IBBN	e P	Z	11:18:31.2	77.0	3.3					
CLZ	e P	Z	11:18:33.4	77.4	4.9	0.7	6	4.7		
NEUB	e P	Z	11:18:36.1	77.9	5.8					
FBE	e P	Z	11:18:37.4	78.1	6.9					
BRG	e P	Z	11:18:36.4	78.1	7.2	1.6	9	4.5		
MOX	e P	Z	11:18:39.2	78.5	5.7	1.9	21	4.8		
WERD	e P	Z	11:18:39.3	78.6	6.2					
TANN	e P	Z	11:18:39.2	78.7	6.3	1.2	5	4.5		
WERN	e P	Z	11:18:40.6	78.8	6.2					
NKC	e P	Z	11:18:41.3	78.8	6.3					
MANZ	e P	Z	11:18:42.4	79.1	6.0					
GRA1	e P	Z	11:18:44.6	79.5	5.5	0.7	7	4.9		
	e pP	Z	11:18:51.0							
WET	e P	Z	11:18:46.1	79.9	6.5	0.9	2	4.3		
GEC2	e P	Z	11:18:47.8	80.1	7.0	0.9	4	4.5		
BFO	e P	Z	11:18:52.4	81.0	3.6	1.2	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/13	17:45:48.7	22.790S	169.080E	33.0		6.0		SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:05:21.0	145.0	35.6					
	e PP	Z	18:08:39.3							
BRG	e PKPbc	Z	18:05:24.3	145.9	43.8					
CLL	e PKPbc	Z	18:05:24.2	146.0	42.0					
FBE	e PKPbc	Z	18:05:25.8	146.1	42.9					

CLZ	e PKPbc	Z	18:05:26.7	146.6	37.5						
TANN	e PKPbc	Z	18:05:27.8	146.9	42.1						
	e PP	Z	18:08:50.0								
WERD	e PKPbc	Z	18:05:28.2	146.9	41.8						
GUNZ	e PKPbc	Z	18:05:27.7	147.0	41.9						
WERN	e PKPbc	Z	18:05:28.4	147.0	42.1						
MOX	e PKPbc	Z	18:05:28.2	147.1	40.6						
	e PP	Z	18:08:54.2								
IBBN	e PKPbc	Z	18:05:28.0	147.2	33.0						
MANZ	e PKPbc	Z	18:05:29.4	147.4	42.0						
GEC2	e PKPbc	Z	18:05:29.7	147.5	45.6						
ROTZ	e PKPbc	Z	18:05:29.5	147.5	42.4						
	e PP	Z	18:08:54.7								
UBBA	e PKPbc	Z	18:05:29.5	147.6	37.9						
WET	e PKPbc	Z	18:05:29.7	147.6	44.0						
	e PP	Z	18:08:55.8								
GRA1	e PKPbc	Z	18:05:31.0	148.0	40.9						
	e PP	Z	18:08:58.3								
	e SS	T	18:28:04.9								
	e L	Z	19:19:42.4			19.3	2346		6.0		
BUG	e PKPbc	Z	18:05:30.4	148.1	33.0						
	e PP	Z	18:08:58.6								
TNS	e PKPbc	Z	18:05:31.9	148.7	36.0						
RJOB	e PKPbc	Z	18:05:30.3	148.7	45.5						
	e PP	Z	18:09:03.3								
FUR	e PKPbc	Z	18:05:33.7	149.1	42.7						
STU	e PKPbc	Z	18:05:35.1	149.5	38.7						
WLF	e PKPbc	Z	18:05:36.4	150.0	32.7						
	e PP	Z	18:09:09.5								
BFO	e PKPbc	Z	18:05:36.1	150.2	37.7						
	e PP	Z	18:09:10.2								

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/13 19:40:4.0 21.400S 169.200E 78.0 NEIC
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 19:59:37.4	146.8	39.6					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/13 20:20:24.3 4.600S 144.200E 98.0 NEIC
 Near north coast of New Guinea, Papua New Guinea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SKS	Z 20:46:11.6	120.0	57.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:14:16.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	00:47:2.5	22.630N	92.530E	33.0N	4.8			SZGRF
India-Bangladesh border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:57:43.6	65.6	83.6	1.1	6	4.7		
FBE	e P	Z 00:57:46.2	65.9	83.2	1.2	13	5.0		
GEC2	e P	Z 00:57:46.3	66.0	82.5	0.7	6	5.0		
WET	e P	Z 00:57:49.3	66.5	82.1	0.9	4	4.7		
TANN	e P	Z 00:57:50.0	66.5	82.3	0.7	2	4.5		
WERN	e P	Z 00:57:50.3	66.6	82.2	1.2	6	4.7		
GUNZ	e P	Z 00:57:50.4	66.6	82.2	3.0	53	5.2		
WERD	e P	Z 00:57:50.3	66.6	82.2	1.0	6	4.8		
ROTZ	e P	Z 00:57:52.2	66.8	81.9	0.8	6	4.9		
MANZ	e P	Z 00:57:51.8	66.8	81.9	1.4	3	4.4		
MOX	e P	Z 00:57:52.9	67.0	81.8	0.8	2	4.4		
BSEG	e P	Z 00:57:55.2	67.4	82.2	0.8	9			
GRA1	e P	Z 00:57:56.0	67.4	81.1	0.8	4	4.7		
CLZ	e P	Z 00:57:56.7	67.6	81.4	1.0	8	4.9		
STU	e P	Z 00:58:04.7	68.9	79.3	0.9	8	4.8		
TNS	e P	Z 00:58:05.9	69.1	79.3	1.0	5			
IBBN	e P	Z 00:58:07.0	69.2	79.6	1.4	17	5.0		
WLF	e P	Z 00:58:15.8	70.7	77.5	1.0	14	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:14:28.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	01:05:34.5	23.950S	165.100E	33.0N				SZGRF
New Caledonia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	01:25:07.6	145.1	50.4					
CLL	e PKPbc	Z	01:25:07.5	145.3	48.6					
FBE	e PKPbc	Z	01:25:08.0	145.3	49.5					
NEUB	e PKPbc	Z	01:25:10.0	145.9	47.0					
CLZ	e PKPbc	Z	01:25:10.1	146.1	44.4					
TANN	e PKPbc	Z	01:25:10.4	146.1	48.9					
WERD	e PKPbc	Z	01:25:10.8	146.2	48.6					
GUNZ	e PKPbc	Z	01:25:11.6	146.2	48.7					
WERN	e PKPbc	Z	01:25:11.2	146.2	48.9					
MOX	e PKPbc	Z	01:25:12.3	146.4	47.4					
GEC2	e PKPbc	Z	01:25:11.4	146.5	52.4					
MANZ	e PKPbc	Z	01:25:12.5	146.6	48.9					
ROTZ	e PKPbc	Z	01:25:13.2	146.7	49.2					
GRA1	e PKPbc	Z	01:25:14.5	147.2	47.9					
BUG	e PKPbc	Z	01:25:15.7	147.7	40.2					
TNS	e PKPbc	Z	01:25:16.1	148.1	43.2					
BFO	e PKPbc	Z	01:25:20.0	149.5	45.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	03:27:56.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	03:36:13.8	22.170S	178.280W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	03:55:54.5	147.6	15.0					
IBBN	e PKPab	Z	03:56:04.3	149.5	11.1					
CLL	e PKPbc	Z	03:55:59.9	149.6	21.0					
	e PKPab	Z	03:56:04.4							
CLZ	e PKPbc	Z	03:56:00.2	149.6	16.0					
	e PKPab	Z	03:56:04.8							
BRG	e PKPbc	Z	03:56:00.4	149.8	22.9					
	e PKPab	Z	03:56:05.5							
FBE	e PKPbc	Z	03:56:00.9	149.9	21.8					
NEUB	e PKPbc	Z	03:56:01.0	149.9	18.8					
MOX	e PKPbc	Z	03:56:02.2	150.5	18.9					
	e PKPab	Z	03:56:08.3							
TANN	e PKPbc	Z	03:56:02.5	150.5	20.5					
	e PKPab	Z	03:56:08.6							
WERD	e PKPbc	Z	03:56:02.3	150.5	20.2					

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GUNZ	e	PKPbc	Z	03:56:02.6	150.6	20.3
WERN	e	PKPbc	Z	03:56:02.6	150.7	20.5
MANZ	e	PKPbc	Z	03:56:03.5	151.0	20.2
ROTZ	e	PKPbc	Z	03:56:03.4	151.2	20.5
TNS	e	PKPbc	Z	03:56:04.5	151.5	13.1
	e	PKPab	Z	03:56:12.9		
GRA1	e	PKPbc	Z	03:56:04.0	151.5	18.7
	e	PKPab	Z	03:56:13.2		
WET	e	PKPbc	Z	03:56:04.7	151.6	22.1
	e	PKPab	Z	03:56:14.0		
GEC2	e	PKPbc	Z	03:56:04.9	151.7	23.9
STU	e	PKPbc	Z	03:56:07.5	152.7	15.2
FUR	e	PKPab	Z	03:56:19.0	152.9	19.7
RJOB	e	PKPab	Z	03:56:19.5	152.9	23.0
BFO	e	PKPbc	Z	03:56:08.5	153.3	13.7
	e	PKPab	Z	03:56:20.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	03:48:41.4	22.540S	169.740E	33.0G				SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 04:08:03.2	145.0	34.4					
BRG	e	PKPbc	Z 04:08:07.3	146.0	42.6					
CLL	e	PKPbc	Z 04:08:07.2	146.1	40.8					
CLZ	e	PKPbc	Z 04:08:09.7	146.7	36.3					
TANN	e	PKPbc	Z 04:08:10.4	147.0	40.9					
MOX	e	PKPbc	Z 04:08:10.9	147.1	39.4					
IBBN	e	PKPbc	Z 04:08:10.9	147.2	31.8					
MANZ	e	PKPbc	Z 04:08:10.7	147.4	40.8					
ROTZ	e	PKPbc	Z 04:08:12.7	147.6	41.1					
GEC2	e	PKPbc	Z 04:08:11.4	147.6	44.4					
UBBA	e	PKPbc	Z 04:08:12.1	147.6	36.7					
WET	e	PKPbc	Z 04:08:11.8	147.7	42.8					
GRA1	e	PKPbc	Z 04:08:13.4	148.0	39.7					
BUG	e	PKPbc	Z 04:08:13.5	148.1	31.7					
TNS	e	PKPbc	Z 04:08:15.3	148.7	34.7					
RJOB	e	PKPbc	Z 04:08:15.9	148.8	44.3					
FUR	e	PKPbc	Z 04:08:17.1	149.2	41.4					
STU	e	PKPbc	Z 04:08:17.8	149.6	37.4					
WLF	e	PKPbc	Z 04:08:19.3	150.0	31.4					
BFO	e	PKPbc	Z 04:08:19.4	150.3	36.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	04:16:52.6	22.440S	167.650E	33.0N				SZGRF

New Caledonia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	04:36:25.4	145.0	45.5					
CLL	e PKPbc	Z	04:36:25.0	145.1	43.8					
FBE	e PKPbc	Z	04:36:26.0	145.2	44.6					
NEUB	e PKPbc	Z	04:36:27.0	145.7	42.1					
TANN	e PKPbc	Z	04:36:29.0	146.0	43.9					
WERD	e PKPbc	Z	04:36:28.8	146.0	43.6					
GUNZ	e PKPbc	Z	04:36:28.5	146.1	43.7					
WERN	e PKPbc	Z	04:36:29.8	146.1	43.9					
MOX	e PKPbc	Z	04:36:29.6	146.2	42.4					
MANZ	e PKPbc	Z	04:36:29.5	146.4	43.8					
GEC2	e PKPbc	Z	04:36:29.9	146.5	47.3					
GRA1	e PKPbc	Z	04:36:31.7	147.0	42.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	04:58:27.0	23.110S	169.640E	33.0G				SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:17:56.7	145.5	35.0					
BRG	e PKPbc	Z	05:17:58.2	146.5	43.2					
CLL	e PKPbc	Z	05:17:57.8	146.5	41.4					
CLZ	e PKPbc	Z	05:18:00.1	147.1	36.9					
TANN	e PKPbc	Z	05:18:01.5	147.4	41.5					
MOX	e PKPbc	Z	05:18:01.6	147.6	40.0					
IBBN	e PKPbc	Z	05:18:01.8	147.7	32.3					
MANZ	e PKPbc	Z	05:18:02.9	147.9	41.4					
GEC2	e PKPbc	Z	05:18:03.6	148.0	45.1					
ROTZ	e PKPbc	Z	05:18:02.9	148.0	41.8					
UBBA	e PKPbc	Z	05:18:04.4	148.1	37.3					
WET	e PKPbc	Z	05:18:04.0	148.2	43.5					
GRA1	e PKPbc	Z	05:18:04.2	148.5	40.3					
BUG	e PKPbc	Z	05:18:04.5	148.6	32.3					
TNS	e PKPbc	Z	05:18:06.7	149.2	35.4					
RJOB	e PKPbc	Z	05:18:06.8	149.2	45.0					
FUR	e PKPbc	Z	05:18:08.2	149.6	42.1					
STU	e PKPbc	Z	05:18:09.4	150.0	38.1					
BFO	e PKPbc	Z	05:18:08.6	150.7	37.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	05:49: 9.1	37.380N	69.944E	33.0N	4.0			SZGRF
Afghanistan-Tajikistan border region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:57:06.6	43.1	83.4	1.0	4	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	07:28:35.8	21.540S	169.710E	33.0G				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPab	Z	07:48:08.8	145.1	41.8					
CLL	e PKPab	Z	07:48:08.9	145.2	40.1					
CLZ	e PKPab	Z	07:48:11.1	145.7	35.7					
TANN	e PKPab	Z	07:48:11.6	146.1	40.1					
MOX	e PKPab	Z	07:48:12.5	146.2	38.6					
IBBN	e PKPab	Z	07:48:13.0	146.2	31.2					
MANZ	e PKPab	Z	07:48:14.2	146.5	40.0					
ROTZ	e PKPab	Z	07:48:14.4	146.7	40.4					
GEC2	e PKPab	Z	07:48:14.1	146.7	43.5					
UBBA	e PKPab	Z	07:48:15.8	146.7	36.0					
WET	e PKPab	Z	07:48:16.4	146.8	42.0					
GRA1	e PKPab	Z	07:48:15.5	147.1	38.9					
BUG	e PKPab	Z	07:48:15.9	147.1	31.1					
RJOB	e PKPab	Z	07:48:19.7	147.9	43.4					
WLF	e PKPbc	Z	07:48:19.5	149.0	30.8					
	e PKPab	Z	07:48:24.4							
BFO	e PKPbc	Z	07:48:20.9	149.3	35.6					
	e PKPab	Z	07:48:25.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/14	09:18: 5.3	33.933N	26.987E	33.0G	4.3	3.6		SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e P	Z	09:22:05.1	17.4	137.2	0.8	8	3.9		
GEC2	e P	Z	09:22:11.0	17.9	141.6	0.7	9	4.0		
WET	e P	Z	09:22:16.5	18.5	140.3	0.9	9	3.9		
BRG	e P	Z	09:22:28.7	19.4	145.7	1.2	16	4.1		
GRA1	e P	Z	09:22:28.9	19.6	137.7	0.9	15	4.2		
	e L	Z	09:31:08.5			21.0	317		3.6	
TANN	e P	Z	09:22:29.0	19.6	141.7	1.1	15	4.2		
STU	e P	Z	09:22:32.2	19.9	131.7	0.9	44	4.7		
BFO	e P	Z	09:22:34.5	20.0	129.1	0.8	17	4.3		
CLL	e P	Z	09:22:35.8	20.1	144.3	0.9	10	4.1		
MOX	e P	Z	09:22:36.2	20.1	140.3	1.2	18	4.2		
TNS	e P	Z	09:22:48.3	21.2	133.2	0.9	23	4.5		
CLZ	e P	Z	09:22:51.3	21.5	139.8	1.1	15	4.3		

WLF e P Z 09:22:57.0 22.0 127.9 0.9 65 5.1

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/14 11:03:5.7 0.800N 96.880E 33.0G 5.0
 Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 11:15:32.5	84.9	94.6	1.3	16	5.1		
BRG	e P	Z 11:15:32.2	84.9	95.0	1.0	8	4.9		
RUE	e P	Z 11:15:33.6	85.2	95.0	1.1	29	5.4		
RJOB	e P	Z 11:15:34.1	85.4	93.8	1.1	6	4.8		
WET	e P	Z 11:15:35.1	85.5	94.0	1.0	9	4.9		
CLL	e P	Z 11:15:34.9	85.6	94.3	1.2	8	4.7		
TANN	e P	Z 11:15:36.9	85.8	93.8	0.9	3	4.4		
WERN	e P	Z 11:15:37.0	85.9	93.7	1.0	4	4.4		
ROTZ	e P	Z 11:15:37.7	86.0	93.6	1.0	8	4.8		
MANZ	e P	Z 11:15:38.2	86.0	93.5	1.1	12	5.0		
MOX	e P	Z 11:15:39.4	86.4	93.2	1.4	12	4.8		
GRA1	e P	Z 11:15:40.7	86.6	92.8	0.9	9	4.9		
CLZ	e P	Z 11:15:43.4	87.2	92.3	1.1	23	5.2		
BSEG	e P	Z 11:15:43.7	87.3	92.3	1.2	24	5.2		
TNS	e P	Z 11:15:49.5	88.4	90.7	1.1	23	5.4		
BFO	e P	Z 11:15:48.6	88.4	90.6	1.0	7	4.9		
IBBN	e P	Z 11:15:51.1	88.8	90.2	1.1	18	5.2		
BUG	e P	Z 11:15:52.7	89.1	89.8	1.0	11	5.1		
WLF	e P	Z 11:15:56.7	89.9	88.9	1.0	10	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/14 12:28:23.6 21.100S 169.300E 42.0
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 12:47:55.4	144.5	42.1					
CLZ	e PKPbc	Z 12:47:58.3	145.2	36.0					
TANN	e PKPbc	Z 12:48:01.4	145.5	40.4					
MOX	e PKPbc	Z 12:48:00.3	145.7	38.9					
IBBN	e PKPbc	Z 12:47:59.3	145.7	31.6					
ROTZ	e PKPbc	Z 12:48:00.2	146.1	40.6					
GEC2	e PKPbc	Z 12:48:01.6	146.1	43.7					
GRA1	e PKPbc	Z 12:48:02.9	146.6	39.2					
WLF	e PKPbc	Z 12:48:10.1	148.5	31.1					

Date Origin Time Lat Long Depth mb Ms ML Source

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2007/10/14 15:06:51.6 46.550N 152.220E 33.0N 4.6 SZGRF
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 15:18:37.3	76.0	27.6	0.8	8	4.9		
CLZ	e P	Z 15:18:39.8	76.3	25.9	1.6	14	4.8		
UBBA	e P	Z 15:18:44.8	77.3	25.6	0.6	2	4.4		
MANZ	e P	Z 15:18:46.1	77.5	26.9	1.2	4	4.4		
ROTZ	e P	Z 15:18:47.4	77.6	26.9	1.0	5	4.6		
GRA1	e P	Z 15:18:48.9	78.0	26.3	0.7	7	4.9		
WET	e P	Z 15:18:48.8	78.0	27.3	0.9	6	4.8		
GEC2	e P	Z 15:18:48.3	78.0	27.8	0.7	3	4.5		
RJOB	e P	Z 15:18:56.2	79.3	27.1	0.8	5	4.5		
BFO	e P	Z 15:18:59.6	80.0	24.3	0.9	5	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/14 17:09:22.2 23.500S 162.500E 33.0N SZGRF
New Caledonia region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 17:09:19.2	143.4	53.4					
CLL	e PKPbc	Z 17:09:18.9	143.6	51.7					
FBE	e PKPbc	Z 17:09:20.0	143.7	52.6					
WERD	e PKPbc	Z 17:09:22.2	144.5	51.7					
GUNZ	e PKPbc	Z 17:09:23.6	144.5	51.9					
NKC	e PKPbc	Z 17:09:22.8	144.6	52.2					
WERN	e PKPbc	Z 17:09:23.8	144.6	52.0					
MOX	e PKPbc	Z 17:09:22.8	144.7	50.6					
GEC2	e PKPbc	Z 17:09:23.2	144.7	55.4					
ROTZ	e PKPbc	Z 17:09:25.1	145.0	52.4					

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/14 18:46:36.2 25.449S 67.000E 33.0N 4.8 SZGRF
Indian Ocean Triple Junction

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:59:32.5	90.0	131.7	0.9	6	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/15 12:29:30.4 45.890S 169.020E 33.0G 7.2 SZGRF
South Island, New Zealand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e PKPdf	Z	12:49:32.0	162.8	82.9				
	e PKPab	Z	12:50:18.6						
	e PP	Z	12:54:04.9						
CLL	e PKPdf	Z	12:49:32.4	163.3	80.5				
	e PP	Z	12:54:08.4						
WET	e PKPdf	Z	12:49:32.8	163.6	87.6				
	e PKPab	Z	12:50:22.6						
TANN	e PKPdf	Z	12:49:32.8	163.8	82.9				
ROTZ	e PKPdf	Z	12:49:33.9	164.0	84.9				
	e PKPab	Z	12:50:24.6						
	e PP	Z	12:54:10.7						
BSEG	e PKPdf	Z	12:49:33.6	164.2	68.1				
	e PKPab	Z	12:50:24.9						
	e PP	Z	12:54:10.0						
MOX	e PKPdf	Z	12:49:32.4	164.3	81.2				
	e PKPab	Z	12:50:26.5						
GRA1	e PKPdf	Z	12:49:33.5	164.7	84.1				
	e PP	Z	12:54:15.1						
	e L	Z	14:11:53.6			21.2	33240		7.2
CLZ	e PKPdf	Z	12:49:34.7	164.8	75.4				
	e PKPab	Z	12:50:28.3						
UBBA	e PKPdf	Z	12:49:34.6	165.3	78.6				
	e PP	Z	12:54:17.4						
STU	e PKPab	Z	12:50:33.0	166.1	85.7				
IBBN	e PKPab	Z	12:50:34.5	166.2	69.7				
TNS	e PKPab	Z	12:50:34.8	166.4	79.0				
BFO	e PP	Z	12:54:26.9	166.7	86.7				
BUG	e PKPab	Z	12:50:36.0	166.8	72.4				
WLF	e PKPdf	Z	12:49:41.0	167.9	78.3				
	e PP	Z	12:54:35.0						

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/15 18:15:56.3 18.415S 176.463W 33.0N
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:35:26.0	144.1	11.0					
RUE	e PKPbc	Z	18:35:28.9	145.0	17.1					
IBBN	e PKPbc	Z	18:35:32.3	145.9	7.2					
CLZ	e PKPbc	Z	18:35:33.0	146.1	11.7					
CLL	e PKPbc	Z	18:35:32.8	146.3	16.3					
BRG	e PKPbc	Z	18:35:33.5	146.5	18.1					
FBE	e PKPbc	Z	18:35:34.0	146.6	17.1					
BUG	e PKPbc	Z	18:35:34.6	146.8	6.5					
MOX	e PKPbc	Z	18:35:35.3	147.1	14.2					
WERD	e PKPbc	Z	18:35:35.7	147.2	15.5					
TANN	e PKPbc	Z	18:35:35.7	147.2	15.8					

GUNZ	e	PKPbc	Z	18:35:36.1	147.3	15.6
WERN	e	PKPbc	Z	18:35:36.2	147.4	15.7
MANZ	e	PKPbc	Z	18:35:37.0	147.7	15.3
ROTZ	e	PKPbc	Z	18:35:37.7	147.9	15.6
TNS	e	PKPbc	Z	18:35:38.0	148.0	8.8
GRA1	e	PKPbc	Z	18:35:38.3	148.1	13.9
	e	PKPab	Z	18:35:42.0		
WET	e	PKPbc	Z	18:35:38.6	148.4	17.1
	e	PKPab	Z	18:35:42.8		
GEC2	e	PKPbc	Z	18:35:38.9	148.5	18.7
	e	PKPab	Z	18:35:43.0		
STU	e	PKPbc	Z	18:35:41.4	149.3	10.6
	e	PKPab	Z	18:35:46.5		
FUR	e	PKPbc	Z	18:35:41.7	149.6	14.6
	e	PKPab	Z	18:35:47.8		
RJOB	e	PKPbc	Z	18:35:41.7	149.7	17.6
	e	PKPab	Z	18:35:48.7		
BFO	e	PKPbc	Z	18:35:42.4	149.8	9.1

Date 2007/10/15
 Origin Time 21:28:20.5
 Lat 45.990S
 Long 168.960E
 Depth 33.0N
 mb
 Ms 6.1
 ML
 Source SZGRF
 South Island, New Zealand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e L	Z 23:11:21.9	162.4	71.0	19.7	2137		6.0	
RUE	e PKPab	Z 21:49:07.5	162.7	78.0					
	e L	Z 23:10:27.0			22.0	2681		6.1	
BRG	e PKPdf	Z 21:48:20.9	162.8	83.3					
	e PKPab	Z 21:49:08.0							
	e L	Z 23:14:38.5			19.6	3473		6.2	
FBE	e PKPdf	Z 21:48:21.6	163.2	82.5					
	e PKPab	Z 21:49:09.5							
CLL	e PKPdf	Z 21:48:21.2	163.3	80.8					
	e PKPab	Z 21:49:09.6							
	e L	Z 23:14:36.3			18.5	2420		6.1	
WET	e PKPdf	Z 21:48:22.0	163.6	88.0					
	e PKPab	Z 21:49:11.8							
	e L	Z 23:13:23.6			19.4	2786		6.1	
RJOB	e PKPdf	Z 21:48:21.8	163.7	92.7					
	e L	Z 23:10:48.5			21.3	3259		6.2	
TANN	e PKPdf	Z 21:48:21.8	163.8	83.3					
	e PKPab	Z 21:49:12.1							
	e L	Z 23:09:51.3			21.9	1976		5.9	
WERN	e PKPdf	Z 21:48:22.0	163.9	83.6					
	e PKPab	Z 21:49:12.6							
GUNZ	e PKPab	Z 21:49:12.6	163.9	83.3					
WERD	e PKPdf	Z 21:48:22.1	163.9	83.0					

	e PKPab	Z	21:49:12.5								
ROTZ	e PKPab	Z	21:49:13.7	164.0	85.2						
	e L	Z	23:11:15.9			20.7	2405	6.0			
MANZ	e PKPdf	Z	21:48:22.3	164.1	84.4						
	e L	Z	23:12:15.9			20.5	2975	6.1			
BSEG	e PKPdf	Z	21:48:22.3	164.2	68.5						
	e PKPab	Z	21:49:14.0								
	e L	Z	23:14:15.8			20.3	2188	6.0			
MOX	e PKPdf	Z	21:48:22.3	164.3	81.6						
	e PKPab	Z	21:49:14.3								
	e L	Z	23:14:23.3			18.7	2310	6.1			
GRA1	e PKPdf	Z	21:48:22.1	164.7	84.6						
	e PKPab	Z	21:49:16.2								
	e L	Z	23:09:12.8			21.9	2750	6.1			
GRFO	e PKPdf	Z	21:48:21.9	164.7	84.6						
	e PKPab	Z	21:49:16.3								
	e L	Z	23:09:12.7			22.0	2634	6.1			
FUR	e PKPab	Z	21:49:16.0	164.7	90.2						
	e L	Z	23:14:25.0			19.2	4791	6.4			
CLZ	e PKPdf	Z	21:48:22.7	164.8	75.8						
	e PKPab	Z	21:49:17.0								
	e L	Z	23:13:25.1			20.7	2543	6.1			
UBBA	e PKPdf	Z	21:48:22.6	165.3	79.0						
	e L	Z	23:09:33.9			20.4	1749	5.9			
HLG	e L	Z	23:09:43.2	165.4	63.6	21.2	2464	6.0			
STU	e PKPab	Z	21:49:22.2	166.1	86.1						
	e L	Z	23:13:02.7			18.7	3331	6.2			
IBBN	e PKPab	Z	21:49:23.5	166.2	70.2						
	e L	Z	23:09:39.8			21.7	3150	6.1			
TNS	e PKPab	Z	21:49:23.6	166.4	79.4						
	e L	Z	23:11:28.4			21.2	2264	6.0			
BFO	e PKPab	Z	21:49:24.5	166.7	87.2						
	e L	Z	23:07:51.8			22.0	2908	6.1			
BUG	e PKPab	Z	21:49:25.3	166.8	72.8						
	e L	Z	23:10:51.1			20.3	2345	6.1			

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/15

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKPab Z 21:53:08.9

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/16 01:15:36.4 34.160N 138.140E 33.0G 5.1 SZGRF
Near south coast of eastern Honshu, Japan

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2007/10/16 06:46:56.8 19.903N 101.524E 33.0N 4.5 SZGRF
Laos

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:58:36.2	75.1	76.6	1.4	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/16	08:41:41.5	33.720S	177.730W	40.6		5.6		SZGRF

South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e pPKPdf	Z 09:01:50.3	160.8	28.0					
	e PKPab	Z 09:02:18.3							
BRG	e PKPdf	Z 09:01:38.3	160.9	30.9					
	e pPKPdf	Z 09:01:50.8							
	e PKPab	Z 09:02:19.0							
FBE	e PKPab	Z 09:02:19.4	161.0	29.4					
IBBN	e PKPab	Z 09:02:20.3	161.0	14.1					
TANN	e pPKPdf	Z 09:01:51.3	161.7	28.0					
	e PKPab	Z 09:02:23.2							
WERD	e PKPab	Z 09:02:23.1	161.7	27.5					
	e pPKPab	Z 09:02:35.3							
MOX	e PKPab	Z 09:02:23.0	161.7	25.5					
GUNZ	e PKPab	Z 09:02:23.6	161.8	27.7					
	e pPKPab	Z 09:02:35.8							
WERN	e PKPab	Z 09:02:23.8	161.8	27.9					
MANZ	e PKPab	Z 09:02:25.3	162.2	27.7					
ROTZ	e PKPab	Z 09:02:26.6	162.4	28.3					
	e pPKPab	Z 09:02:38.3							
WET	e PKPab	Z 09:02:27.7	162.7	31.0					
GRA1	e PKPab	Z 09:02:28.6	162.7	25.8					
	e L	Z 10:18:08.9			19.7	776		5.6	
RJOB	e PKPab	Z 09:02:32.9	163.9	33.2					
BFO	e PKPab	Z 09:02:36.0	164.7	19.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/16	10:18: 2.4	56.200N	162.100W	188.0	4.6			NEIC

Bristol Bay, Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z 10:29:08.0	71.8	355.6	1.2	12	4.9		
MOX	e P	Z 10:29:14.1	73.0	356.3	0.7	3	4.5		
WERD	e P	Z 10:29:15.5	73.3	356.8					
GUNZ	e P	Z 10:29:16.0	73.3	356.8					
WERN	e P	Z 10:29:16.6	73.4	356.8					

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ROTZ	e P	Z	10:29:19.4	73.9	356.7	1.3	5	4.4
GRA1	e P	Z	10:29:20.6	74.0	356.1	0.4	8	5.1
	e pP	Z	10:30:05.6					
WET	e P	Z	10:29:22.2	74.6	357.1	1.2	4	4.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z 16:43:37.2							
GEC2	e PKP	Z 16:43:42.0							
GUNZ	e PKP	Z 16:43:37.3							
MANZ	e PKP	Z 16:43:40.7							
WERD	e PKP	Z 16:43:39.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/16	18:53:36.2	19.560S	171.477E	33.0N				SZGRF
Vanuatu Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WERD	e PKPbc	Z 19:13:08.7	145.0	35.7					
GUNZ	e PKPbc	Z 19:13:08.8	145.0	35.8					
MOX	e PKPbc	Z 19:13:09.1	145.1	34.5					
WERN	e PKPbc	Z 19:13:09.2	145.1	36.0					
MANZ	e PKPbc	Z 19:13:10.2	145.4	35.8					
ROTZ	e PKPbc	Z 19:13:10.8	145.6	36.2					
WET	e PKPbc	Z 19:13:10.8	145.8	37.7					
GRA1	e PKPbc	Z 19:13:12.0	146.0	34.7					
TNS	e PKPbc	Z 19:13:13.3	146.5	29.9					
FUR	e PKPbc	Z 19:13:16.1	147.2	36.1					
STU	e PKPbc	Z 19:13:17.3	147.5	32.3					
BFO	e PKPbc	Z 19:13:19.0	148.2	31.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/16	21:05:39.7	25.440S	179.770W	471.6				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 21:24:31.2	150.5	18.8					
	e PKPbc	Z 21:24:37.6							
	e PKPab	Z 21:24:46.6							
CLL	e PKPdf	Z 21:24:33.4	152.4	25.5					
	e PKPbc	Z 21:24:41.3							

	e PKPab	Z	21:24:54.6		
BRG	e PKPdf	Z	21:24:33.6	152.5	27.6
	e PKPbc	Z	21:24:41.9		
	e PKPab	Z	21:24:55.0		
	e pPKPbc	Z	21:26:34.3		
CLZ	e PKPdf	Z	21:24:34.3	152.5	20.1
	e PKPbc	Z	21:24:42.2		
	e PKPab	Z	21:24:55.4		
	e pPKPbc	Z	21:26:34.3		
IBBN	e PKPdf	Z	21:24:34.3	152.5	14.9
	e PKPbc	Z	21:24:41.9		
	e PKPab	Z	21:24:55.7		
TANN	e PKPdf	Z	21:24:34.8	153.3	25.2
	e PKPbc	Z	21:24:43.5		
	e PKPab	Z	21:24:58.6		
	e pPKPbc	Z	21:26:35.0		
MOX	e PKPdf	Z	21:24:35.0	153.3	23.4
	e PKPbc	Z	21:24:43.3		
	e PKPab	Z	21:24:58.8		
	e pPKPbc	Z	21:26:34.7		
BUG	e PKPdf	Z	21:24:35.3	153.5	14.3
	e PKPbc	Z	21:24:43.6		
	e PKPab	Z	21:25:00.1		
UBBA	e PKPdf	Z	21:24:34.9	153.5	20.1
	e PKPbc	Z	21:24:43.6		
	e PKPab	Z	21:24:59.5		
MANZ	e PKPdf	Z	21:24:35.6	153.8	24.9
	e PKPbc	Z	21:24:44.8		
	e PKPab	Z	21:25:01.1		
	e pPKPbc	Z	21:26:36.0		
ROTZ	e PKPdf	Z	21:24:35.8	154.0	25.3
	e PKPbc	Z	21:24:45.1		
	e PKPab	Z	21:25:02.3		
	e pPKPbc	Z	21:26:35.6		
GRA1	e PKPdf	Z	21:24:36.4	154.3	23.4
	e PKPab	Z	21:25:03.6		
	e pPKPbc	Z	21:26:35.7		
	e SKKSac	N	21:34:43.3		
	e SS	E	21:47:44.0		
WET	e PKPdf	Z	21:24:36.3	154.3	27.2
	e PKPab	Z	21:25:03.6		
	e pPKPbc	Z	21:26:37.0		
GEC2	e PKPdf	Z	21:24:36.3	154.3	29.1
	e PKPab	Z	21:25:05.5		
TNS	e PKPdf	Z	21:24:36.8	154.4	17.4
	e PKPab	Z	21:25:03.6		
STU	e PKPdf	Z	21:24:38.3	155.6	19.9
	e PKPab	Z	21:25:08.9		
	e pPKPbc	Z	21:26:39.8		

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FUR	e PKPdf	Z	21:24:38.1	155.7	24.8
	e PKPab	Z	21:25:09.2		
BFO	e PKPdf	Z	21:24:38.3	156.2	18.4
	e PKPab	Z	21:25:11.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 00:25:32.4							
CLL	e PKPdf	Z 00:25:31.7							
CLZ	e PKPdf	Z 00:25:31.8							
FBE	e PKPdf	Z 00:25:32.6							
GEC2	e PKPdf	Z 00:25:36.3							
MANZ	e PKPdf	Z 00:25:35.3							
NEUB	e PKPdf	Z 00:25:32.0							
TANN	e PKPdf	Z 00:25:33.9							
TNS	e PKPdf	Z 00:25:35.4							
WERD	e PKPdf	Z 00:25:33.9							
WERN	e PKPdf	Z 00:25:34.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/17	01:16:45.3	16.860S	172.170W	33.0N				SZGRF
Samoa Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPbc	Z 01:36:18.0	145.0	4.2					
CLL	e PKPbc	Z 01:36:18.6	145.3	8.7					
NEUB	e PKPbc	Z 01:36:20.0	145.5	6.7					
BRG	e PKPbc	Z 01:36:20.0	145.6	10.4					
FBE	e PKPbc	Z 01:36:20.2	145.7	9.4					
MOX	e PKPbc	Z 01:36:21.3	146.1	6.5					
WERD	e PKPbc	Z 01:36:22.1	146.2	7.7					
TANN	e PKPbc	Z 01:36:22.5	146.2	8.0					
GUNZ	e PKPbc	Z 01:36:22.2	146.3	7.8					
WERN	e PKPbc	Z 01:36:22.6	146.4	7.9					
MANZ	e PKPbc	Z 01:36:23.7	146.7	7.5					
BFO	e PKPbc	Z 01:36:28.5	148.5	0.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/17	02:55:21.1	0.748N	96.563E	33.0N	4.6			SZGRF
Off west coast of northern Sumatera, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:08:00.6	86.4	93.1	0.9	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/17	10:58:44.1	27.740N	129.760E	33.0N	5.4	5.5		SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	11:11:05.1	82.4	53.4	0.6	26	5.7		
BSEG	e P	Z	11:11:08.6	83.1	50.9	0.8	20	5.4		
BRG	e P	Z	11:11:09.5	83.2	53.4	0.9	17	5.3		
CLL	e P	Z	11:11:10.0	83.4	52.7	1.0	28	5.4		
FBE	e P	Z	11:11:10.5	83.5	52.9	1.2	35	5.5		
TANN	e P	Z	11:11:13.7	84.3	52.2	1.2	17	5.2		
WERD	e P	Z	11:11:14.1	84.3	52.1	1.1	18	5.2		
GUNZ	e P	Z	11:11:15.1	84.4	52.1	0.9	26	5.5		
CLZ	e P	Z	11:11:16.0	84.4	50.8	0.9	47	5.7		
MOX	e P	Z	11:11:16.3	84.5	51.6	0.8	13	5.2		
GEC2	e P	Z	11:11:15.5	84.6	53.0	0.8	9	5.0		
MANZ	e P	Z	11:11:17.0	84.7	51.9	1.2	25	5.3		
ROTZ	e P	Z	11:11:17.4	84.8	52.0	1.0	40	5.6		
UBBA	e P	Z	11:11:19.6	85.2	50.4	0.9	20	5.3		
IBBN	e P	Z	11:11:19.9	85.3	48.9	0.9	44	5.6		
GRA1	e P	Z	11:11:20.5	85.3	51.3	0.9	52	5.6		
	e L	Z	11:53:58.1			18.1	1789		5.5	
RJOB	e P	Z	11:11:22.5	85.7	52.3	0.8	59	5.8		
FUR	e P	Z	11:11:25.3	86.3	51.2	0.8	89	5.9		
STU	e P	Z	11:11:27.3	86.9	49.7	0.5	19	5.4		
BFO	e P	Z	11:11:30.9	87.7	49.1	1.0	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/17	14:39:57.5	23.578N	122.330E	33.0N	5.0			SZGRF

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:52:17.8	82.7	61.3	1.0	8	4.7		
FBE	e P	Z	14:52:19.5	83.0	60.8	1.0	22	5.0		
CLL	e P	Z	14:52:19.1	83.0	60.6	1.0	19	5.0		
BSEG	e P	Z	14:52:19.5	83.0	58.9	1.0	12	4.8		
TANN	e P	Z	14:52:23.0	83.7	60.1	0.9	7	4.7		
WERD	e P	Z	14:52:23.6	83.8	60.0	1.1	14	4.9		
GUNZ	e P	Z	14:52:23.7	83.8	60.0	1.0	19	5.1		
WERN	e P	Z	14:52:23.8	83.8	60.1	0.9	14	5.0		
MOX	e P	Z	14:52:25.0	84.0	59.5	0.9	12	4.9		
WET	e P	Z	14:52:25.7	84.1	60.3					

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CLZ	e P	Z	14:52:25.7	84.1	58.7	0.9	23	5.2
MANZ	e P	Z	14:52:25.5	84.1	59.8	0.9	8	4.7
ROTZ	e P	Z	14:52:26.0	84.2	59.9	1.0	16	5.0
GRA1	e P	Z	14:52:28.7	84.7	59.2	0.7	17	5.3
UBBA	e P	Z	14:52:29.1	84.8	58.3	0.8	4	4.6
RJOB	e P	Z	14:52:29.4	84.8	60.1	0.9	14	5.1
IBBN	e P	Z	14:52:31.2	85.2	56.8	0.4	22	5.6
FUR	e P	Z	14:52:33.1	85.5	59.1	0.5	22	5.5
BUG	e P	Z	14:52:35.1	85.9	56.3	0.7	20	5.4
TNS	e P	Z	14:52:35.0	86.0	57.2	1.2	13	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/18	10:00:55.6	3.520S	106.720E	33.0N	5.3			SZGRF
Southern Sumatera, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 10:14:13.0	94.5	90.1	0.8	9	5.1		
FBE	e P	Z 10:14:14.8	94.9	89.6	0.8	9	5.3		
WET	e P	Z 10:14:15.3	95.2	89.4	1.1	9	5.1		
WERN	e P	Z 10:14:17.9	95.5	88.9	1.1	11	5.2		
ROTZ	e P	Z 10:14:17.6	95.6	88.8	1.0	7	5.1		
MANZ	e P	Z 10:14:18.1	95.7	88.7	1.1	8	5.2		
MOX	e P	Z 10:14:19.9	96.0	88.3	2.5	54	5.6		
GRA1	e P	Z 10:14:20.3	96.2	88.1	0.6	7	5.3		
CLZ	e P	Z 10:14:21.9	96.7	87.2	1.0	8	5.3		
TNS	e P	Z 10:14:28.0	98.0	85.9	1.0	12	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/18	11:29:55.4	20.900S	174.500W	33.0				GSRC
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 11:49:54.8	150.9	11.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/18	15:41:16.3	42.771N	18.122E	10.0G				SZGRF
Northwestern Balkan Peninsula								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 15:42:55.0	6.8	151.5	0.5	25			
FUR	e Pn	Z 15:43:00.7	7.2	135.8	0.4	32			
WET	e Pn	Z 15:43:02.3	7.3	148.3	0.7	23			
ROTZ	e Pn	Z 15:43:12.2	8.1	147.5	0.7	17			

MANZ	e Pn	Z	15:43:15.1	8.3	147.9	0.8	27
GRA1	e Pn	Z	15:43:16.4	8.4	142.9	1.1	70
TANN	e Pn	Z	15:43:19.5	8.6	150.9	1.0	13
BRG	e Pn	Z	15:43:20.1	8.6	159.0	0.6	6
STU	e Pn	Z	15:43:20.7	8.6	130.7	1.0	58
BFO	e Pn	Z	15:43:22.4	8.8	125.4	0.5	35
MOX	e Pn	Z	15:43:25.0	9.0	148.0	0.7	31
CLL	e Pn	Z	15:43:29.1	9.2	155.9	0.6	6
UBBA	e Pn	Z	15:43:35.5	9.8	142.3	0.6	10
TNS	e Pn	Z	15:43:39.3	10.0	134.6	0.6	32
BUG	e Pn	Z	15:43:58.7	11.4	135.5	0.8	19

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/18 16:13:19.0 30.440N 42.200W 33.0N 5.3 5.4
 Northern Mid-Atlantic Ridge SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	16:20:59.9	40.8	260.4	1.5	69	5.2		
	e S	R	16:27:09.0							
BUG	e S	R	16:27:29.1	41.8	259.4					
BFO	e P	Z	16:21:09.7	42.0	263.8	1.5	103	5.3		
	e S	R	16:27:27.7							
IBBN	e P	Z	16:21:12.0	42.3	258.9	0.9	50	5.3		
TNS	e P	Z	16:21:13.1	42.3	261.8	1.5	100	5.3		
	e S	R	16:27:34.4							
STU	e P	Z	16:21:14.8	42.6	264.0	1.0	59	5.3		
	e S	R	16:27:37.4							
UBBA	e P	Z	16:21:20.1	43.4	262.5	1.5	45	5.0		
CLZ	e P	Z	16:21:24.5	43.8	261.8	0.9	50	5.2		
	e S	R	16:27:58.5							
FUR	e S	R	16:27:57.7	44.0	266.3					
GRA1	e P	Z	16:21:26.5	44.1	264.7	1.0	33	5.0		
	e S	R	16:28:00.8							
	e L	Z	16:37:30.2			18.0	4412		5.4	
BSEG	e P	Z	16:21:26.2	44.1	259.6	0.8	114	5.7		
	e S	R	16:28:03.4							
MOX	e P	Z	16:21:29.2	44.4	264.1	1.3	37	5.2		
	e S	R	16:28:06.6							
MANZ	e P	Z	16:21:31.4	44.6	265.1	1.4	72	5.4		
	e S	R	16:28:10.5							
ROTZ	e P	Z	16:21:31.6	44.7	265.4	1.6	48	5.2		
	e S	R	16:28:10.8							
TANN	e P	Z	16:21:33.0	44.9	265.0	1.3	25	5.0		
	e S	R	16:28:13.3							
WET	e P	Z	16:21:34.5	45.1	266.6	1.6	77	5.4		
	e S	R	16:28:13.5							
CLL	e P	Z	16:21:36.5	45.3	264.6	0.8	28	5.2		

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	e S	R	16:28:23.8						
GEC2	e P	Z	16:21:38.8	45.6	267.6	1.7	98	5.6	
	e S	R	16:28:23.6						
BRG	e P	Z	16:21:41.0	45.9	265.8	1.5	51	5.3	
	e S	R	16:28:31.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/19	07:19:55.1	27.780N	65.190E	33.0N	4.9	5.0		SZGRF
Pakistan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:28:04.0	44.5	98.9	1.6	43	4.9		
	e S	T 07:34:40.4							
BRG	e P	Z 07:28:05.1	44.7	101.1	1.5	43	5.0		
RJOB	e P	Z 07:28:06.7	44.9	97.0	1.0	9	4.5		
WET	e S	T 07:34:48.7	45.1	98.5					
CLL	e S	T 07:34:53.9	45.3	100.7					
TANN	e S	T 07:34:56.6	45.5	99.4					
ROTZ	e P	Z 07:28:12.9	45.6	98.5	1.1	10	4.6		
	e S	T 07:34:57.3							
MANZ	e P	Z 07:28:14.6	45.7	98.6	1.2	12	4.7		
FUR	e S	T 07:35:01.1	46.0	96.2					
MOX	e P	Z 07:28:17.0	46.1	98.8	1.3	33	5.1		
	e S	T 07:35:01.3							
GRA1	e P	Z 07:28:17.9	46.2	97.6	0.9	20	5.1		
	e S	T 07:35:03.1							
	e L	Z 07:52:12.2			18.8	1519		5.0	
CLZ	e P	Z 07:28:24.5	47.0	98.9	1.3	15	4.9		
UBBA	e P	Z 07:28:25.0	47.1	97.6	1.0	7	4.6		
	e S	T 07:35:16.2							
BSEG	e S	T 07:35:19.4	47.4	100.7					
BFO	e S	T 07:35:27.1	48.0	94.0					
TNS	e P	Z 07:28:33.1	48.0	95.8	1.3	25	5.2		
	e S	T 07:35:27.0							
BUG	e S	T 07:35:44.1	48.9	95.9					
WLF	e S	T 07:35:45.7	49.5	93.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/19	17:33:33.1	16.870S	178.820W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GUNZ	e PKPbc	Z 17:53:06.9	145.3	19.0					
WERN	e PKPbc	Z 17:53:07.0	145.4	19.1					
ROTZ	e PKPbc	Z 17:53:09.3	145.9	19.1					

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 03:17:56.7							
	e Sn	N 03:18:15.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/20	03:14:59.8	42.820N	141.460E	33.0G	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 03:26:38.0	74.6	35.0	1.1	17	5.0		
BRG	e P	Z 03:26:44.5	75.8	36.9	1.5	14	4.9		
CLL	e P	Z 03:26:44.1	75.8	36.3	0.9	9	4.9		
FBE	e P	Z 03:26:45.6	76.0	36.5	0.9	7	4.8		
CLZ	e P	Z 03:26:47.4	76.3	34.7	0.8	12	5.1		
TANN	e P	Z 03:26:49.8	76.7	35.9	2.2	20	4.8		
GUNZ	e P	Z 03:26:50.3	76.8	35.8	1.5	13	4.8		
MOX	e P	Z 03:26:50.4	76.8	35.3	1.3	6	4.6		
WERN	e P	Z 03:26:50.7	76.9	35.8	0.8	4	4.6		
MANZ	e P	Z 03:26:52.3	77.2	35.6	0.9	4	4.6		
ROTZ	e P	Z 03:26:53.6	77.3	35.6	1.0	5	4.6		
GEC2	e P	Z 03:26:54.3	77.5	36.4	1.2	5	4.5		
WET	e P	Z 03:26:54.8	77.6	36.0	1.0	7	4.7		
GRA1	e P	Z 03:26:56.0	77.8	35.0	1.0	13	5.0		
RJOB	e P	Z 03:27:01.1	78.8	35.7	0.8	7	4.8		
FUR	e P	Z 03:27:02.5	79.0	34.8	1.5	35	5.2		
STU	e P	Z 03:27:03.8	79.3	33.5	1.0	12	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/20	11:57:17.2	22.510S	177.980W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 12:16:58.8	148.0	14.6					
IBBN	e PKPbc	Z 12:17:04.0	149.9	10.6					
CLZ	e PKPbc	Z 12:17:04.4	150.0	15.6					
CLL	e PKPbc	Z 12:17:04.1	150.0	20.6					
	e PKPab	Z 12:17:09.5							
BRG	e PKPbc	Z 12:17:04.8	150.2	22.6					
	e PKPab	Z 12:17:10.3							
BUG	e PKPbc	Z 12:17:06.1	150.8	10.0					
MOX	e PKPbc	Z 12:17:06.4	150.9	18.5					
TANN	e PKPbc	Z 12:17:06.6	150.9	20.2					
	e PKPab	Z 12:17:13.9							
UBBA	e PKPbc	Z 12:17:06.4	151.0	15.3					

	e	PKPab	Z	12:17:14.8					
MANZ	e	PKPbc	Z	12:17:07.7	151.4	19.8			
ROTZ	e	PKPbc	Z	12:17:08.3	151.6	20.1			
TNS	e	PKPbc	Z	12:17:08.6	151.8	12.7			
GRA1	e	PKPbc	Z	12:17:09.1	151.9	18.3			
WET	e	PKPbc	Z	12:17:09.3	152.0	21.8			
	e	PKPab	Z	12:17:18.5					
GEC2	e	PKPbc	Z	12:17:09.3	152.1	23.5			
	e	PKPab	Z	12:17:18.5					
WLF	e	PKPbc	Z	12:17:11.0	152.7	8.3			
STU	e	PKPbc	Z	12:17:11.6	153.1	14.8			
FUR	e	PKPbc	Z	12:17:12.3	153.3	19.3			
RJOB	e	PKPbc	Z	12:17:12.7	153.3	22.6			
	e	PKPab	Z	12:17:24.3					
BFO	e	PKPbc	Z	12:17:12.5	153.7	13.2			
	e	PKPab	Z	12:17:25.2					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/20 20:30:18.3 1.552S 99.391E 10.0G 4.9
 Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FBE	e P	Z 20:43:13.2	88.7	94.1	1.2	9	4.9		
WET	e P	Z 20:43:13.8	88.9	93.7	0.7	5	4.9		
GUNZ	e P	Z 20:43:15.6	89.3	93.3	1.2	6	4.7		
WERD	e P	Z 20:43:15.8	89.3	93.2	1.5	6	4.6		
ROTZ	e P	Z 20:43:16.1	89.4	93.2	1.1	5	4.7		
MANZ	e P	Z 20:43:16.4	89.4	93.1	1.0	8	4.9		
NEUB	e P	Z 20:43:17.4	89.7	92.8	0.9	13	5.2		
MOX	e P	Z 20:43:17.7	89.8	92.7	1.6	15	5.0		
GRA1	e P	Z 20:43:18.7	90.0	92.4	1.0	9	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/20 21:40: 2.6 16.728S 174.201W 33.0N
 Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 21:59:32.8	144.4	3.2					
CLZ	e PKPbc	Z 21:59:33.7	144.7	7.6					
CLL	e PKPbc	Z 21:59:34.2	144.9	12.1					
BRG	e PKPbc	Z 21:59:36.1	145.2	13.8					
BUG	e PKPbc	Z 21:59:36.3	145.3	2.5					
UBBA	e PKPbc	Z 21:59:37.3	145.7	7.2					
MOX	e PKPbc	Z 21:59:37.1	145.8	9.9					
TANN	e PKPbc	Z 21:59:37.5	145.9	11.4					

MANZ	e	PKPbc	Z	21:59:38.5	146.4	10.9
TNS	e	PKPbc	Z	21:59:39.1	146.4	4.6
ROTZ	e	PKPbc	Z	21:59:39.0	146.6	11.2
GRA1	e	PKPbc	Z	21:59:40.7	146.7	9.5
WLF	e	PKPbc	Z	21:59:41.4	147.1	0.6
WET	e	PKPbc	Z	21:59:41.2	147.1	12.5
GEC2	e	PKPbc	Z	21:59:41.8	147.2	14.1
STU	e	PKPbc	Z	21:59:43.7	147.8	6.1
FUR	e	PKPbc	Z	21:59:44.5	148.2	10.0
BFO	e	PKPbc	Z	21:59:44.2	148.3	4.6
RJOB	e	PKPbc	Z	21:59:44.6	148.5	12.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/21	03:55:39.7	42.400N	13.092E	10.0G		3.2		SZGRF
Central Italy								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	03:57:06.7	5.9	166.8					
GEC2	e Pn	Z	03:57:12.3	6.5	184.0					
	e Sn	Z	03:58:24.8							
WET	e Pn	Z	03:57:15.3	6.7	178.7					
	e Sn	Z	03:58:32.2							
BFO	e Pn	Z	03:57:19.6	6.8	148.8					
ROTZ	e Pn	Z	03:57:24.5	7.4	174.9					
GRA1	e L	Z	04:00:59.3	7.4	169.2	14.1	530		3.3	
TANN	e Pn	Z	03:57:33.7	8.0	176.7					
MOX	e Pn	Z	03:57:37.3	8.3	172.4					
TNS	e Pn	Z	03:57:43.6	8.5	156.0					
BRG	e Sn	Z	03:59:16.0	8.5	184.3					
WLF	e Pn	Z	03:57:46.6	8.7	143.9					
CLL	e Pn	Z	03:57:46.5	8.9	179.6					
CLZ	e Pn	Z	03:57:57.1	9.6	167.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/21	10:24:52.0	6.300S	154.800E	33.0N		5.7		NEIC
Off south coast of northwest Africa								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	10:43:59.4	124.4	44.4					
BRG	e PKPdf	Z	10:44:00.2	124.9	49.9					
CLL	e PKPdf	Z	10:44:00.1	125.0	48.6					
CLZ	e PKPdf	Z	10:44:02.4	125.9	45.5					
TANN	e PKPdf	Z	10:44:02.2	125.9	48.5					
MOX	e PKPdf	Z	10:44:02.6	126.1	47.5					
GEC2	e PKPdf	Z	10:44:02.9	126.3	50.7					

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ROTZ	e	PKPdf	Z	10:44:03.5	126.4	48.6				
WET	e	PKPdf	Z	10:44:03.5	126.5	49.7				
IBBN	e	PKPdf	Z	10:44:03.7	126.6	42.4				
UBBA	e	PKPdf	Z	10:44:03.8	126.7	45.6				
GRA1	e	Pdiff	Z	10:40:35.1	126.9	47.6				
	e	PKPdf	Z	10:44:04.2						
	e			10:44:21.0						
	e	PP	Z	10:45:53.2						
	e	SKSac	N	10:50:59.8						
	e	PS	E	10:55:47.4						
	e	SS	E	11:03:01.5						
	e	L	Z	11:45:38.8			20.2	1470		5.7
BUG	e	PKPdf	Z	10:44:05.1	127.5	42.3				
TNS	e	PKPdf	Z	10:44:06.1	127.9	44.2				
FUR	e	PKPdf	Z	10:44:06.1	127.9	48.5				
STU	e	PKPdf	Z	10:44:07.3	128.5	45.9				
BFO	e	PKPdf	Z	10:44:08.7	129.3	45.2				
WLF	e	PKPdf	Z	10:44:09.3	129.3	41.9				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/21	12:40:12.2	3.281S	99.284E	24.9	5.3	4.8		SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 12:53:06.8	89.6	95.5	1.8	31	5.2		
	e pP	Z 12:53:13.9							
BRG	e P	Z 12:53:06.7	89.6	95.7					
	e pP	Z 12:53:13.8							
WET	e P	Z 12:53:08.9	90.1	94.9	2.2	54	5.4		
	e pP	Z 12:53:16.5							
CLL	e P	Z 12:53:09.1	90.2	95.0					
TANN	e P	Z 12:53:10.7	90.5	94.5					
ROTZ	e P	Z 12:53:11.5	90.6	94.3	2.0	29	5.3		
MOX	e P	Z 12:53:14.0	91.1	93.9	1.3	8	4.9		
GRA1	e P	Z 12:53:14.4	91.2	93.6	2.0	58	5.6		
	e pP	Z 12:53:22.0							
	e L	Z 13:42:53.3			19.3	304			4.8
STU	e P	Z 12:53:20.0	92.5	92.1					
TNS	e P	Z 12:53:22.8	93.1	91.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/21	14:24: 6.3	5.504S	103.283E	27.4	5.7			SZGRF

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	14:37:20.4	93.9	94.0						
	e pP	Z	14:37:28.7								
GEC2	e P	Z	14:37:20.3	93.9	93.9	1.7	79	5.8			
WET	e P	Z	14:37:22.8	94.4	93.3	1.9	81	5.7			
CLL	e P	Z	14:37:22.8	94.5	93.2	1.3	20	5.3			
TANN	e P	Z	14:37:24.4	94.8	92.9						
ROTZ	e P	Z	14:37:25.5	94.9	92.7						
MOX	e P	Z	14:37:26.9	95.3	92.2	1.5	28	5.5			
	e pP	Z	14:37:35.0								
GRA1	e P	Z	14:37:28.2	95.5	92.0	2.1	123	6.0			
	e pP	Z	14:37:36.0								
CLZ	e P	Z	14:37:30.8	96.1	91.1						
BSEG	e P	Z	14:37:31.2	96.2	90.9						
TNS	e P	Z	14:37:36.1	97.3	89.8	1.0	15	5.6			
IBBN	e P	Z	14:37:37.9	97.7	89.0						
BUG	e P	Z	14:37:39.3	98.0	88.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/21	16:25:54.1	0.621N	99.909E	30.5	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:38:36.6	87.0	92.7					
	e pP	Z 16:38:45.6							
GEC2	e P	Z 16:38:36.8	87.0	92.4	1.2	21	5.1		
CLL	e P	Z 16:38:39.4	87.6	92.0					
WET	e P	Z 16:38:39.2	87.6	91.8					
TANN	e P	Z 16:38:40.7	87.9	91.6					
ROTZ	e P	Z 16:38:41.5	88.0	91.4					
MOX	e P	Z 16:38:43.8	88.4	90.9	1.2	13	5.1		
	e pP	Z 16:38:52.2							
GRA1	e P	Z 16:38:44.5	88.7	90.6	1.3	26	5.3		
	e pP	Z 16:38:54.3							
CLZ	e P	Z 16:38:47.1	89.2	90.0					
	e pP	Z 16:38:55.5							
BSEG	e P	Z 16:38:47.4	89.3	90.0					
TNS	e P	Z 16:38:52.9	90.5	88.5					
IBBN	e P	Z 16:38:54.2	90.8	87.9					
WLF	e P	Z 16:39:00.3	92.0	86.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/22	04:28: 8.5	22.290S	168.890E	33.0				SZGRF

New Caledonia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e	PKPbc	Z	04:47:45.8	145.4	43.6
FBE	e	PKPbc	Z	04:47:46.5	145.6	42.7
CLZ	e	PKPbc	Z	04:47:48.3	146.1	37.4
TANN	e	PKPbc	Z	04:47:49.0	146.4	41.9
WERD	e	PKPbc	Z	04:47:49.0	146.4	41.7
GUNZ	e	PKPbc	Z	04:47:49.4	146.5	41.8
WERN	e	PKPbc	Z	04:47:49.5	146.5	41.9
MOX	e	PKPbc	Z	04:47:49.1	146.6	40.4
IBBN	e	PKPbc	Z	04:47:49.8	146.7	33.0
MANZ	e	PKPbc	Z	04:47:50.5	146.9	41.8
GEC2	e	PKPbc	Z	04:47:50.5	147.0	45.4
ROTZ	e	PKPbc	Z	04:47:51.0	147.0	42.2
UBBA	e	PKPbc	Z	04:47:50.8	147.1	37.8
WET	e	PKPbc	Z	04:47:51.5	147.1	43.9
GRA1	e	PKPbc	Z	04:47:52.3	147.4	40.8
TNS	e	PKPbc	Z	04:47:54.1	148.1	35.9
STU	e	PKPbc	Z	04:47:56.5	149.0	38.6
WLF	e	PKPbc	Z	04:47:57.8	149.4	32.7
BFO	e	PKPbc	Z	04:47:57.6	149.7	37.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/22	06:11:13.8	3.000S	141.400E	63.0	4.8			NEIC
New Guinea, Papua New Guinea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 06:30:58.0	117.2	59.1	1.9	18	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/22	14:47:24.7	4.800S	152.656E	35.0G				NEIC
New Britain, Papua New Guinea, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 15:06:17.6	122.5	51.2					
CLL	e PKPdf	Z 15:06:17.8	122.7	50.0					
GEC2	e PKPdf	Z 15:06:19.6	123.9	52.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/22	20:10:15.1	43.381N	45.638E	33.0N	4.3			SZGRF
Eastern Caucasus								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 20:15:13.9	22.6	91.8	1.0	7	4.1		
RJOB	e P	Z 20:15:21.3	23.2	88.5	1.2	13	4.3		

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CLL	e P	Z	20:15:21.0	23.3	97.0	0.8	5	4.2
TANN	e P	Z	20:15:23.9	23.5	94.5	0.9	8	4.3
ROTZ	e P	Z	20:15:24.8	23.6	92.8	1.1	8	4.1
MANZ	e P	Z	20:15:25.0	23.7	93.2	0.9	3	3.8
MOX	e P	Z	20:15:27.7	24.1	94.3	0.9	8	4.3
GRA1	e P	Z	20:15:29.7	24.3	91.8	1.5	19	4.4
BSEG	e P	Z	20:15:38.6	25.3	100.1	1.3	12	4.5
WLF	e P	Z	20:15:58.9	27.5	87.9	1.4	18	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/22	21:41: 6.5	9.100N	83.900W	55.0	5.0			NEIC

Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
TNS	e P	Z	21:53:33.7	84.5	277.6	1.5	20	5.1		
BFO	e P	Z	21:53:34.3	84.7	277.7	1.9	32	5.2		
GRA1	e P	Z	21:53:43.6	86.4	279.8	1.6	29	5.1		
MOX	e P	Z	21:53:44.3	86.4	280.0	1.9	30	5.1		
NEUB	e P	Z	21:53:44.4	86.4	280.1					
MANZ	e P	Z	21:53:46.2	86.9	280.4	2.1	24	5.0		
WERD	e P	Z	21:53:45.6	86.9	280.6					
WERN	e P	Z	21:53:46.9	87.0	280.6					
NKC	e P	Z	21:53:46.8	87.0	280.7					
CLL	e P	Z	21:53:47.7	87.2	281.1	1.0	6	4.7		
FBE	e P	Z	21:53:49.4	87.5	281.3					
WET	e P	Z	21:53:48.8	87.5	281.1	1.4	10	4.9		
GEC2	e P	Z	21:53:51.4	88.1	281.7	1.5	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/23	05:47:31.7	46.125N	152.003E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:59:08.2	74.8	26.4	2.9	98	5.4		
CLL	e P	Z	05:59:17.4	76.4	27.9	0.7	17	5.2		
BRG	e P	Z	05:59:18.0	76.5	28.5	1.1	8	4.6		
FBE	e P	Z	05:59:18.9	76.6	28.1	1.0	13	4.9		
CLZ	e P	Z	05:59:19.4	76.6	26.2	0.9	14	5.0		
MOX	e P	Z	05:59:23.0	77.4	26.9	0.9	9	4.8		
GUNZ	e P	Z	05:59:22.6	77.4	27.4	1.0	10	4.8		
WERN	e P	Z	05:59:23.2	77.5	27.4	0.6	8	4.9		
MANZ	e P	Z	05:59:25.8	77.8	27.2	2.0	22	5.0		
WET	e P	Z	05:59:28.6	78.3	27.6	0.9	9	4.9		
GRA1	e P	Z	05:59:29.1	78.3	26.6	0.8	18	5.3		
GEC2	e P	Z	05:59:28.6	78.3	28.1	0.9	5	4.7		

TNS	e P	Z	05:59:30.5	78.6	24.8	0.8	14	5.1
RJOB	e P	Z	05:59:36.9	79.6	27.4	0.3	11	5.5
STU	e P	Z	05:59:36.3	79.7	25.2	0.7	12	5.1
BFO	e P	Z	05:59:39.9	80.4	24.6	0.9	11	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/23	06:41:48.4	6.300S	154.700E	64.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	07:00:40.3	124.8	50.0					
CLL	e PKPdf	Z	07:00:40.4	125.0	48.8					
FBE	e PKPdf	Z	07:00:41.1	125.1	49.3					
WERD	e PKPdf	Z	07:00:42.3	125.9	48.5					
GUNZ	e PKPdf	Z	07:00:42.6	125.9	48.5					
WERN	e PKPdf	Z	07:00:43.1	125.9	48.6					
GEC2	e PKPdf	Z	07:00:43.2	126.2	50.8					
MANZ	e PKPdf	Z	07:00:43.4	126.3	48.5					
ROTZ	e PKPdf	Z	07:00:43.7	126.4	48.7					
WET	e PKPdf	Z	07:00:44.3	126.5	49.8					
GRA1	e PKPdf	Z	07:00:44.3	126.9	47.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/23	19:56:50.8	1.140S	99.940E	33.5	5.8	5.4		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	20:09:39.9	88.4	93.8	2.5	222	6.1		
	e S	T	20:20:22.8							
GEC2	e P	Z	20:09:39.9	88.4	93.6	2.3	238	6.1		
	e pP	Z	20:09:49.6							
	e S	T	20:20:23.9							
RUE	e S	T	20:20:24.4	88.6	93.7					
RJOB	e S	T	20:20:25.9	88.9	92.9					
WET	e P	Z	20:09:42.3	88.9	93.0	2.5	230	6.0		
	e pP	Z	20:09:52.3							
	e S	T	20:20:29.2							
RGN	e S	T	20:20:29.8	89.0	93.4					
CLL	e P	Z	20:09:42.4	89.0	93.1	2.6	233	6.0		
TANN	e P	Z	20:09:43.8	89.3	92.7	2.4	95	5.6		
	e pP	Z	20:09:53.7							
ROTZ	e P	Z	20:09:45.0	89.4	92.5	2.5	158	5.8		
	e pP	Z	20:09:54.7							
	e S	T	20:20:32.8							
MANZ	e P	Z	20:09:45.5	89.5	92.4	2.3	229	6.0		

	e pP	Z	20:09:54.9							
	e S	T	20:20:30.0							
MOX	e P	Z	20:09:46.6	89.8	92.0	2.6	195	5.9		
	e S	T	20:20:34.4							
GRA1	e P	Z	20:09:48.0	90.0	91.7	1.8	112	5.8		
	e S	T	20:20:41.4							
	e L	Z	20:59:44.1			19.8	1334		5.4	
GRFO	e S	T	20:20:41.4	90.0	91.7					
CLZ	e P	Z	20:09:50.1	90.6	91.0	1.5	44	5.6		
	e S	T	20:20:44.6							
BSEG	e P	Z	20:09:50.8	90.7	91.0	1.8	68	5.7		
	e pP	Z	20:10:00.2							
	e S	T	20:20:46.1							
UBBA	e P	Z	20:09:51.1	90.8	90.8	2.0	74	5.7		
	e S	T	20:20:47.7							
STU	e P	Z	20:09:53.6	91.3	90.2	1.2	32	5.5		
	e S	T	20:20:49.0							
TNS	e P	Z	20:09:55.9	91.8	89.6	1.7	53	5.6		
	e S	T	20:20:51.8							
BFO	e P	Z	20:09:55.4	91.9	89.6	1.8	45	5.5		
	e S	T	20:20:57.9							
HLG	e S	T	20:21:02.0	92.1	89.0					
IBBN	e P	Z	20:09:57.2	92.2	89.0					
BUG	e S	T	20:21:03.0	92.6	88.6					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/23 21:47:15.8 34.277N 25.145E 8.0G 3.9 THE
 Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:51:13.6	16.9	145.6	1.1	5	3.6		
WET	e P	Z 21:51:19.7	17.4	144.1					
GRA1	e P	Z 21:51:30.8	18.5	141.2	1.0	7	3.9		
TANN	e P	Z 21:51:31.8	18.6	145.3	0.9	5	3.8		
NEUB	e P	Z 21:51:43.8	19.5	145.1	0.8	9	4.1		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/23 22:59:26.6 21.300S 178.950W 33.0N SZGRF
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 23:19:09.8	148.6	21.7					
BRG	e PKPbc	Z 23:19:10.6	148.7	23.6					
MOX	e PKPbc	Z 23:19:12.2	149.5	19.7					
TANN	e PKPbc	Z 23:19:12.7	149.5	21.3					

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MANZ	e	PKPbc	Z	23:19:13.6	150.0	20.9
ROTZ	e	PKPbc	Z	23:19:13.8	150.2	21.3
GRA1	e	PKPbc	Z	23:19:14.3	150.5	19.5
TNS	e	PKPbc	Z	23:19:14.9	150.5	14.1
GEC2	e	PKPbc	Z	23:19:15.4	150.7	24.6
WLF	e	PKPbc	Z	23:19:17.4	151.3	10.0
STU	e	PKPbc	Z	23:19:18.0	151.8	16.2
FUR	e	PKPbc	Z	23:19:18.4	151.9	20.6
RJOB	e	PKPbc	Z	23:19:18.6	151.9	23.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/24	01:42:29.3	16.420S	178.260W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FBE	e	PKPdf	Z	02:02:01.2	144.3	19.3			
WERD	e	PKPbc	Z	02:02:01.6	144.9	17.8			
TANN	e	PKPbc	Z	02:02:01.4	144.9	18.1			
GUNZ	e	PKPbc	Z	02:02:02.2	145.0	17.9			
WERN	e	PKPbc	Z	02:02:02.3	145.1	18.0			
MANZ	e	PKPbc	Z	02:02:03.3	145.4	17.7			
ROTZ	e	PKPbc	Z	02:02:04.3	145.6	18.0			
TNS	e	PKPbc	Z	02:02:04.5	145.8	11.5			
GRA1	e	PKPbc	Z	02:02:05.3	145.9	16.4			
WET	e	PKPbc	Z	02:02:05.9	146.0	19.4			
GEC2	e	PKPbc	Z	02:02:05.8	146.1	20.9			
WLF	e	PKPbc	Z	02:02:07.4	146.6	7.7			
FUR	e	PKPbc	Z	02:02:09.3	147.3	17.1			
RJOB	e	PKPbc	Z	02:02:09.8	147.4	20.0			
BFO	e	PKPbc	Z	02:02:10.1	147.6	11.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/24	11:04:43.7	35.100N	23.500E	63.0	4.4			THE

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z	11:08:40.3	17.1	143.8	1.5	41	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/24	21:02:51.5	4.410S	100.860E	33.0N	6.3	6.6		SZGRF

Southwest of Sumatera, Indonesia

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

GEC2	e P	Z	21:15:54.5	91.5	95.0	1.9	327	6.3	
	e PP	Z	21:19:41.6						
	e S	T	21:26:50.3						
	e L	Z	22:15:35.9			20.7	20359		6.5
BRG	e P	Z	21:15:54.2	91.5	95.2	2.5	560	6.4	
	e PP	Z	21:19:41.7						
	e S	T	21:26:51.8						
	e L	Z	22:09:33.0			21.8	27359		6.7
RUE	e P	Z	21:15:55.8	91.7	95.0	1.8	386	6.4	
	e PP	Z	21:19:42.7						
	e S	T	21:26:50.3						
	e L	Z	22:09:34.9			20.9	22076		6.6
FBE	e P	Z	21:15:56.3	91.9	94.7	2.5	639	6.5	
RJOB	e P	Z	21:15:56.6	92.0	94.4	2.0	185	6.1	
	e PP	Z	21:19:46.0						
	e S	T	21:26:53.7						
	e L	Z	22:10:52.6			20.4	17373		6.5
WET	e P	Z	21:15:57.3	92.0	94.4	2.2	324	6.3	
	e PP	Z	21:19:46.4						
	e S	T	21:26:57.0						
	e L	Z	22:04:29.3			21.4	21614		6.6
CLL	e P	Z	21:15:57.1	92.1	94.4	1.5	84	5.9	
	e PP	Z	21:19:46.1						
	e S	T	21:26:56.0						
	e L	Z	22:13:35.4			20.2	26482		6.7
RGN	e S	T	21:26:56.2	92.2	94.6				
	e L	Z	22:05:57.8			21.5	26752		6.7
TANN	e P	Z	21:15:58.4	92.4	94.0	2.3	204	6.1	
	e PP	Z	21:19:48.9						
	e S	T	21:27:00.8						
	e L	Z	22:10:04.4			21.5	18345		6.5
WERN	e P	Z	21:15:59.5	92.4	94.0	3.2	526	6.3	
WERD	e P	Z	21:15:59.3	92.5	93.9	2.0	145	6.0	
ROTZ	e P	Z	21:15:59.5	92.5	93.9	2.5	375	6.3	
	e PP	Z	21:19:50.0						
	e S	T	21:27:02.1						
	e L	Z	22:07:28.2			21.6	17458		6.5
MANZ	e P	Z	21:15:59.7	92.6	93.8	1.8	209	6.3	
	e PP	Z	21:19:50.1						
	e S	T	21:27:02.7						
	e L	Z	22:07:50.8			21.0	23004		6.6
MOX	e P	Z	21:16:00.9	92.9	93.4	2.7	400	6.4	
	e PP	Z	21:19:53.1						
	e S	T	21:27:04.9						
	e L	Z	22:13:49.1			18.6	26476		6.7
FUR	e P	Z	21:16:01.6	93.0	93.3	2.7	504	6.5	
	e PP	Z	21:19:53.3						
	e S	T	21:27:03.9						
	e L	Z	22:16:08.5			20.4	20837		6.6

GRA1	e P	Z	21:16:02.8	93.1	93.1	1.9	187	6.2
	e PP	Z	21:19:54.2					
	e S	T	21:27:07.2					
	e L	Z	22:06:13.4			21.8	19688	6.5
GRFO	e PP	Z	21:19:54.3	93.1	93.1			
	e S	T	21:27:07.2					
CLZ	e P	Z	21:16:04.7	93.8	92.3	1.8	135	6.0
	e PP	Z	21:19:59.3					
	e S	T	21:27:10.3					
	e L	Z	22:18:23.6			19.8	22093	6.6
BSEG	e P	Z	21:16:05.9	93.9	92.2	1.5	74	5.8
	e S	T	21:27:11.3					
UBBA	e L	Z	22:02:13.4			21.9	24956	6.6
	e P	Z	21:16:05.6	94.0	92.1	2.7	322	6.2
	e PP	Z	21:20:00.6					
	e S	T	21:27:13.0					
STU	e L	Z	22:15:49.1			20.6	17251	6.5
	e P	Z	21:16:07.7	94.4	91.7	2.8	443	6.3
	e PP	Z	21:20:03.9					
	e S	T	21:27:17.5					
TNS	e L	Z	22:21:26.7			18.9	22600	6.7
	e P	Z	21:16:10.9	94.9	91.0	1.0	76	6.1
	e PP	Z	21:20:09.4					
	e S	T	21:27:22.7					
BFO	e L	Z	22:06:41.7			22.0	21293	6.6
	e P	Z	21:16:10.0	95.0	91.0	3.1	290	6.2
	e PP	Z	21:20:09.0					
	e S	T	21:27:22.3					
HLG	e L	Z	22:22:06.2			19.2	21191	6.6
	e S	T	21:27:23.7	95.3	90.2			
	e L	Z	22:08:57.4			21.3	18914	6.5
IBBN	e P	Z	21:16:12.0	95.4	90.2	2.3	259	6.3
	e S	T	21:27:24.2					
BUG	e L	Z	22:14:34.5			19.6	24807	6.7
	e P	Z	21:16:13.8	95.7	89.9	2.3	157	6.1
	e PP	Z	21:20:15.1					
WLF	e S	T	21:27:28.0					
	e L	Z	22:15:27.9			20.6	21470	6.6
	e P	Z	21:16:17.3	96.4	89.3	2.2	155	6.1
	e PP	Z	21:20:20.9					
	e S	T	21:27:35.3					
	e L	Z	22:07:53.5			20.8	24072	6.7

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/25 01:01: 1.7 15.821S 172.435W 33.0N SZGRF
 Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z	01:20:33.4	145.0	6.8					
TANN	e PKPbc	Z	01:20:33.8	145.2	8.3					
TNS	e PKPbc	Z	01:20:36.0	145.6	1.5					
MANZ	e PKPbc	Z	01:20:35.2	145.6	7.8					
GRA1	e PKPbc	Z	01:20:37.6	146.0	6.3					
WLF	e PKPbc	Z	01:20:37.9	146.1	357.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/25	03:44:43.2	6.400S	154.800E	69.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	04:03:36.8	125.1	48.7					
CLZ	e PKPdf	Z	04:03:38.2	125.9	45.6					
MANZ	e PKPdf	Z	04:03:38.6	126.4	48.5					
GRA1	e PKPdf	Z	04:03:37.5	127.0	47.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/25	05:25:34.8	3.400S	100.440E	30.6	5.7	4.9		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:38:33.7	90.4	94.7	1.9	106	6.0		
	e pP	Z	05:38:42.6			1.9	106			
	e S	T	05:49:24.9							
BRG	e P	Z	05:38:33.7	90.4	94.9	2.2	129	6.0		
	e pP	Z	05:38:42.3			2.2	129			
	e S	T	05:49:27.1							
RJOB	e P	Z	05:38:35.6	90.9	94.0	0.9	14	5.4		
	e S	T	05:49:28.8							
WET	e P	Z	05:38:36.1	91.0	94.1	1.9	88	5.8		
	e pP	Z	05:38:45.5							
	e S	T	05:49:31.7							
CLL	e P	Z	05:38:36.3	91.1	94.1	2.1	59	5.5		
	e S	T	05:49:31.2							
TANN	e P	Z	05:38:37.7	91.3	93.7	2.4	112	5.8		
	e pP	Z	05:38:47.0							
	e S	T	05:49:35.7							
ROTZ	e P	Z	05:38:39.0	91.5	93.5	2.4	132	5.8		
	e S	T	05:49:37.1							
MANZ	e P	Z	05:38:39.1	91.5	93.5	1.7	78	5.8		
	e pP	Z	05:38:47.8							
	e S	T	05:49:37.8							
MOX	e P	Z	05:38:39.9	91.9	93.1	2.5	93	5.7		

	e S	T	05:49:40.0							
FUR	e S	T	05:49:39.1	92.0	92.9					
GRA1	e P	Z	05:38:41.5	92.1	92.8	1.9		88	5.9	
	e pP	Z	05:38:50.2							
	e S	T	05:49:42.3							
	e L	Z	06:24:45.4			21.0		451		4.9
CLZ	e P	Z	05:38:44.1	92.7	92.0	2.2		77	5.7	
	e pP	Z	05:38:53.2							
BSEG	e P	Z	05:38:44.4	92.8	91.9	2.2		94	5.8	
	e S	T	05:49:46.2							
UBBA	e P	Z	05:38:44.9	92.9	91.8	1.9		38	5.5	
	e pP	Z	05:38:54.0							
	e S	T	05:49:48.3							
STU	e P	Z	05:38:46.9	93.4	91.3	0.5		15	5.8	
	e S	T	05:49:52.3							
TNS	e P	Z	05:38:49.3	93.9	90.6	1.0		16	5.5	
	e S	T	05:49:58.3							
BFO	e P	Z	05:38:49.2	93.9	90.7	1.2		8	5.1	
	e S	T	05:49:57.7							
IBBN	e S	T	05:49:56.9	94.3	90.0					
BUG	e S	T	05:50:03.6	94.6	89.6					
WLF	e P	Z	05:38:56.1	95.4	88.9	1.5		24	5.7	
	e S	T	05:50:10.4							

Date 2007/10/25 Origin Time 08:35:17.6 Lat 20.600S Long 68.700W Depth 100.0 mb Ms ML Source NEIC
Chile-Bolivia border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 08:52:47.9	99.3	249.1					
CLZ	e PP	Z 08:52:50.8	99.6	248.8					
MOX	e PP	Z 08:52:50.9	99.9	249.5					
ROTZ	e PP	Z 08:52:52.6	100.0	249.8					
WET	e PP	Z 08:52:54.5	100.2	250.2					
WERN	e PP	Z 08:52:55.8	100.2	250.0					
BSEG	e PP	Z 08:52:56.8	100.3	249.1					
TANN	e PP	Z 08:52:54.0	100.3	250.1					
CLL	e PP	Z 08:52:58.8	101.0	250.6					
FBE	e PP	Z 08:52:59.6	101.0	250.8					
BRG	e PP	Z 08:53:02.4	101.4	251.3					

Date 2007/10/25 Origin Time 11:38:35.9 Lat 39.777N Long 20.536E Depth 40.0G mb Ms ML Source GSRC
Greece-Albania border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z	11:40:57.1	9.7	142.2					
GRA1	e Pn	Z	11:41:40.8	11.9	142.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/25	13:50: 6.9	46.380N	154.610E	33.0N	6.5	5.7		SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	14:01:41.1	73.9	26.7	1.8	1534	6.8		
	e PP	Z	14:04:26.5							
	e S	T	14:11:13.3							
BSEG	e P	Z	14:01:48.7	75.2	24.6	1.8	788	6.4		
	e S	T	14:11:27.6							
HLG	e S	T	14:11:31.5	75.6	23.0					
RUE	e P	Z	14:01:50.7	75.6	26.7	1.8	1465	6.7		
	e S	T	14:11:30.5							
CLL	e P	Z	14:01:57.4	76.9	26.1	1.7	1185	6.7		
	e S	T	14:11:43.6							
BRG	e P	Z	14:01:58.3	77.0	26.7	1.5	416	6.3		
	e S	T	14:11:45.7							
CLZ	e P	Z	14:01:59.6	77.1	24.4	1.6	1262	6.8		
	e PP	Z	14:04:53.3							
	e S	T	14:11:48.0							
FBE	e P	Z	14:01:59.1	77.1	26.3	1.6	949	6.7		
IBBN	e P	Z	14:02:00.5	77.3	22.7	1.8	1112	6.7		
	e S	T	14:11:50.0							
TANN	e P	Z	14:02:03.3	77.8	25.7	1.6	381	6.3		
	e S	T	14:11:55.4							
WERD	e P	Z	14:02:03.3	77.8	25.6	1.7	649	6.5		
MOX	e P	Z	14:02:03.3	77.9	25.1	1.6	705	6.5		
	e S	T	14:11:55.6							
WERN	e P	Z	14:02:04.1	78.0	25.6	1.8	713	6.5		
UBBA	e P	Z	14:02:04.7	78.1	24.1	1.4	393	6.4		
	e S	T	14:11:58.6							
BUG	e P	Z	14:02:05.4	78.2	22.4	1.6	769	6.6		
	e S	T	14:12:00.8							
MANZ	e P	Z	14:02:05.9	78.3	25.4	1.5	368	6.3		
	e PP	Z	14:05:04.2							
	e S	T	14:12:00.7							
ROTZ	e P	Z	14:02:07.2	78.5	25.4	1.6	668	6.5		
	e PP	Z	14:05:05.3							
	e S	T	14:12:03.7							
GRA1	e P	Z	14:02:09.1	78.8	24.8	1.7	1372	6.8		
	e PP	Z	14:05:08.3							
	e S	T	14:12:06.7							
	e L	Z	14:37:43.7			21.8	4242		5.7	

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GRFO	e P	Z	14:02:09.2	78.8	24.8	1.7	1257	6.8
	e PP	Z	14:05:08.7					
WET	e P	Z	14:02:09.2	78.9	25.8	1.6	784	6.6
	e PP	Z	14:05:08.8					
	e S	T	14:12:07.6					
GEC2	e P	Z	14:02:09.0	78.9	26.3	1.8	421	6.3
	e PP	Z	14:05:09.2					
	e S	T	14:12:07.2					
TNS	e P	Z	14:02:10.3	79.1	23.0	1.8	865	6.5
	e PP	Z	14:05:09.9					
	e S	T	14:12:09.1					
WLF	e P	Z	14:02:16.6	80.1	21.5	2.0	839	6.3
	e S	T	14:12:22.2					
RJOB	e P	Z	14:02:16.5	80.1	25.6	2.0	650	6.2
	e S	T	14:12:22.5					
FUR	e P	Z	14:02:16.4	80.2	24.7	1.6	940	6.5
	e S	T	14:12:20.5					
STU	e P	Z	14:02:16.2	80.2	23.4	1.6	694	6.3
	e S	T	14:12:21.6					
BFO	e P	Z	14:02:19.5	80.8	22.8	1.4	405	6.2
	e PP	Z	14:05:25.0					
	e S	T	14:12:28.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/25	20:44:57.2	20.412S	176.703W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:04:33.5	146.1	11.8					
IBBN	e PKPbc	Z	21:04:39.1	147.9	7.9					
CLZ	e PKPbc	Z	21:04:39.1	148.1	12.6					
CLL	e PKPbc	Z	21:04:39.1	148.2	17.4					
BRG	e PKPbc	Z	21:04:39.7	148.4	19.3					
BUG	e PKPbc	Z	21:04:41.0	148.8	7.2					
MOX	e PKPbc	Z	21:04:41.2	149.1	15.3					
TANN	e PKPbc	Z	21:04:41.9	149.1	16.9					
UBBA	e PKPbc	Z	21:04:41.6	149.1	12.3					
MANZ	e PKPbc	Z	21:04:43.0	149.6	16.5					
ROTZ	e PKPbc	Z	21:04:43.9	149.8	16.8					
TNS	e PKPbc	Z	21:04:44.1	149.9	9.7					
GRA1	e PKPbc	Z	21:04:44.3	150.0	15.0					
WET	e PKPbc	Z	21:04:45.0	150.3	18.3					
GEC2	e PKPbc	Z	21:04:44.7	150.4	20.0					
WLF	e PKPbc	Z	21:04:46.1	150.7	5.5					
STU	e PKPbc	Z	21:04:47.2	151.2	11.5					
FUR	e PKPbc	Z	21:04:47.9	151.5	15.8					
RJOB	e PKPbc	Z	21:04:47.9	151.6	19.0					

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BFO e PKPbc Z 21:04:47.9 151.8 10.0

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/26 06:50:14.0 34.981N 75.975E 33.0G 4.9 4.7
Eastern Kashmir

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 06:58:38.3	46.6	85.0	1.0	25	4.9		
GEC2	e P	Z 06:58:42.7	47.0	82.9	1.8	43	4.9		
	e PP	Z 07:00:16.5							
CLL	e P	Z 06:58:43.0	47.1	84.7	0.9	18	4.8		
	e PP	Z 07:00:19.4							
WET	e P	Z 06:58:45.7	47.5	82.6	2.0	54	4.9		
	e PP	Z 07:00:23.3							
TANN	e P	Z 06:58:46.1	47.6	83.5	1.8	35	4.8		
WERD	e P	Z 06:58:45.8	47.7	83.4	1.1	14	4.6		
RJOB	e P	Z 06:58:46.5	47.7	81.3	0.9	14	4.7		
ROTZ	e P	Z 06:58:48.5	47.8	82.7	1.2	21	4.8		
	e PP	Z 07:00:26.8							
MANZ	e P	Z 06:58:48.5	47.8	82.9	1.0	14	4.6		
MOX	e P	Z 06:58:49.4	48.1	83.1	0.9	16	4.7		
GRA1	e P	Z 06:58:53.6	48.5	82.0	1.4	47	5.0		
	e PP	Z 07:00:31.3							
	e L	Z 07:22:11.6			18.2	889		4.7	
BSEG	e P	Z 06:58:53.3	48.5	85.1	1.1	37	5.0		
FUR	e P	Z 06:58:56.2	48.6	80.7	1.1	68	5.3		
CLZ	e P	Z 06:58:54.6	48.7	83.3	1.3	44	5.0		
UBBA	e P	Z 06:58:56.8	49.1	82.1	1.0	13	4.6		
STU	e P	Z 06:59:05.9	49.9	79.8	1.0	31	5.0		
TNS	e P	Z 06:59:07.7	50.1	80.5	0.9	14	4.7		
IBBN	e P	Z 06:59:08.2	50.2	81.8					
BFO	e P	Z 06:59:10.3	50.5	78.9	1.8	34	5.0		
BUG	e P	Z 06:59:10.7	50.7	80.7	1.0	24	5.1		
WLF	e P	Z 06:59:17.8	51.7	78.6	1.1	35	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
2007/10/26 15:23:28.3 54.410N 161.890W 33.0N 6.0 4.6
Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 15:34:44.5	71.0	357.1	1.4	528	6.5		
HLG	e P	Z 15:34:45.1	71.1	353.7	1.4	371	6.3		
BSEG	e P	Z 15:34:47.3	71.5	355.2	1.2	167	6.1		
IBBN	e P	Z 15:34:56.1	72.9	353.7	1.3	232	6.1		
RUE	e P	Z 15:34:56.6	73.1	357.4	1.5	421	6.3		

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CLZ	e P	Z	15:35:00.0	73.6	355.3	1.6	354	6.2
BUG	e P	Z	15:35:00.5	73.8	353.5	0.9	126	5.9
CLL	e P	Z	15:35:03.0	74.2	356.9	1.2	115	5.8
UBBA	e P	Z	15:35:05.2	74.6	355.1	1.8	154	5.7
FBE	e P	Z	15:35:05.7	74.6	357.1	1.5	338	6.1
BRG	e P	Z	15:35:05.9	74.7	357.5	1.6	220	5.9
MOX	e P	Z	15:35:06.8	74.8	356.1	0.8	104	5.9
WERD	e P	Z	15:35:08.3	75.0	356.5	1.9	244	5.9
TNS	e P	Z	15:35:08.4	75.1	354.2	0.8	84	5.8
TANN	e P	Z	15:35:08.6	75.1	356.6	1.9	247	5.9
WERN	e P	Z	15:35:09.4	75.2	356.6	0.9	76	5.8
WLF	e P	Z	15:35:10.9	75.4	352.8	1.1	132	6.0
MANZ	e P	Z	15:35:10.8	75.5	356.4	1.6	156	5.9
ROTZ	e P	Z	15:35:12.5	75.7	356.5	1.8	260	6.1
GRA1	e P	Z	15:35:12.6	75.7	355.9	1.2	136	6.0
	e L	Z	16:06:03.4			21.8	333	4.6
WET	e P	Z	15:35:16.1	76.4	356.9	1.4	142	5.9
STU	e P	Z	15:35:16.7	76.5	354.7	1.4	123	5.9
GEC2	e P	Z	15:35:17.7	76.7	357.4	1.6	167	5.9
BFO	e P	Z	15:35:18.9	76.9	354.2	0.9	51	5.7
FUR	e P	Z	15:35:21.0	77.3	355.9	1.0	135	6.0
RJOB	e P	Z	15:35:23.8	77.8	356.8	0.8	100	6.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/27 02:48:17.6 20.040S 177.130W 498.1 mb MS ML SZGRF
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e pPKPbc	Z	03:08:58.4	145.6	12.5					
IBBN	e PKPbc	Z	03:07:05.1	147.5	8.6					
	e pPKPbc	Z	03:09:02.4							
CLL	e PKPbc	Z	03:07:05.5	147.7	18.0					
	e pPKPbc	Z	03:09:02.0							
BRG	e PKPbc	Z	03:07:06.2	148.0	19.9					
BUG	e PKPbc	Z	03:07:07.1	148.4	7.9					
MOX	e PKPbc	Z	03:07:07.9	148.6	15.9					
TANN	e PKPbc	Z	03:07:08.2	148.7	17.5					
	e PKPab	Z	03:07:13.4							
UBBA	e PKPbc	Z	03:07:07.7	148.7	13.0					
MANZ	e PKPbc	Z	03:07:09.3	149.2	17.1					
ROTZ	e PKPbc	Z	03:07:09.7	149.4	17.4					
	e PKPab	Z	03:07:16.6							
TNS	e PKPbc	Z	03:07:10.0	149.5	10.4					
	e PKPab	Z	03:07:16.2							
GRA1	e PKPbc	Z	03:07:10.3	149.6	15.6					
	e PKPab	Z	03:07:17.2							
WET	e PKPbc	Z	03:07:10.4	149.8	18.9					

	e	PKPab	Z	03:07:18.6					
GEC2	e	PKPbc	Z	03:07:10.8	149.9	20.6			
WLF	e	PKPbc	Z	03:07:12.4	150.3	6.2			
STU	e	PKPbc	Z	03:07:13.2	150.8	12.3			
FUR	e	PKPbc	Z	03:07:13.7	151.1	16.5			
	e	PKPab	Z	03:07:23.8					
BFO	e	PKPbc	Z	03:07:14.1	151.4	10.8			

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/27 04:02:21.9 39.400N 40.700E 5.0 4.5
 Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:07:33.5	23.2	105.1	1.6	26	4.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/27 05:29:22.8 36.806N 21.853E 33.0G 4.5
 Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:32:34.0	13.4	150.7	0.9	16			
FUR	e P	Z 05:32:39.7	13.7	141.8					
WET	e P	Z 05:32:42.0	14.0	148.8	1.6	53			
MANZ	e P	Z 05:32:56.4	14.9	148.3					
GRA1	e P	Z 05:32:58.0	15.0	145.2	1.3	125			
	e L	Z 05:39:23.1			19.8	3570		4.5	
STU	e P	Z 05:32:59.4	15.1	137.7	0.7	50			
BRG	e P	Z 05:33:00.8	15.2	155.1	1.3	21			
TANN	e P	Z 05:33:00.8	15.2	150.1	1.1	26			
BFO	e P	Z 05:33:00.9	15.2	134.4	1.2	43			
MOX	e P	Z 05:33:06.1	15.7	148.2	0.8	18			
CLL	e P	Z 05:33:09.7	15.8	153.1	1.2	44			
UBBA	e P	Z 05:33:19.5	16.4	144.3	1.2	20			
TNS	e P	Z 05:33:19.0	16.5	139.2					
WLF	e P	Z 05:33:29.7	17.1	132.7	1.2	131			
BUG	e P	Z 05:33:40.8	17.9	139.1					
IBBN	e P	Z 05:33:44.6	18.4	141.8					
BSEG	e P	Z 05:33:47.4	18.9	150.4					

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/27 08:48: 2.1 5.400S 147.100E 202.0
 Eastern New Guinea, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	09:06:28.4	120.2	57.2					
CLL	e PKPdf	Z	09:06:28.9	120.4	56.0					
FBE	e PKPdf	Z	09:06:29.3	120.5	56.6					
TANN	e PKPdf	Z	09:06:30.4	121.2	55.9					
WERD	e PKPdf	Z	09:06:30.5	121.3	55.8					
WERN	e PKPdf	Z	09:06:30.9	121.3	55.9					
GEC2	e PKPdf	Z	09:06:30.7	121.4	57.9					
MANZ	e PKPdf	Z	09:06:31.3	121.6	55.8					
WET	e PKPdf	Z	09:06:31.5	121.7	57.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/27	18:36:36.7	21.440S	177.610W	624.2				SZGRF
Fiji Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:55:10.3	147.0	13.6					
	e pPKPbc	Z	18:57:32.2							
IBBN	e PKPbc	Z	18:55:15.3	148.9	9.7					
CLL	e PKPdf	Z	18:55:11.0	149.0	19.4					
	e PKPbc	Z	18:55:15.4							
BRG	e PKPdf	Z	18:55:11.4	149.2	21.4					
	e PKPbc	Z	18:55:16.0							
	e pPKPbc	Z	18:57:36.1							
BUG	e PKPbc	Z	18:55:17.4	149.8	9.0					
MOX	e PKPbc	Z	18:55:17.7	149.9	17.3					
TANN	e PKPdf	Z	18:55:12.2	150.0	19.0					
	e PKPbc	Z	18:55:17.9							
UBBA	e PKPbc	Z	18:55:17.6	150.0	14.3					
MANZ	e PKPdf	Z	18:55:13.3	150.4	18.6					
	e PKPbc	Z	18:55:19.1							
ROTZ	e PKPbc	Z	18:55:19.5	150.6	18.9					
	e pPKPbc	Z	18:57:42.0							
TNS	e PKPbc	Z	18:55:20.1	150.8	11.6					
	e PKPab	Z	18:55:28.8							
GRA1	e PKPbc	Z	18:55:19.6	150.9	17.1					
	e PKPab	Z	18:55:29.3							
	e pPKPbc	Z	18:57:44.5							
WET	e PKPdf	Z	18:55:13.6	151.1	20.5					
	e PKPbc	Z	18:55:20.3							
	e PKPab	Z	18:55:30.0							
GEC2	e PKPdf	Z	18:55:14.3	151.1	22.2					
	e PKPbc	Z	18:55:20.4							
	e PKPab	Z	18:55:29.8							
WLF	e PKPbc	Z	18:55:22.4	151.6	7.4					
	e PKPab	Z	18:55:32.5							
STU	e PKPdf	Z	18:55:15.9	152.1	13.6					

	e	PKPbc	Z	18:55:23.0							
	e	PKPab	Z	18:55:33.9							
FUR	e	PKPdf	Z	18:55:15.5	152.3	18.0					
	e	PKPbc	Z	18:55:23.2							
	e	PKPab	Z	18:55:35.1							
BFO	e	PKPdf	Z	18:55:16.5	152.7	12.1					
	e	PKPbc	Z	18:55:24.0							
	e	PKPab	Z	18:55:36.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/27	19:01:1.8	46.128N	153.417E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:13:01.4	78.7	25.7	1.2	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/27	20:15:16.9	21.970S	168.590E	33.0N				SZGRF

Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 20:34:49.3	145.0	43.8					
CLL	e PKPbc	Z 20:34:49.3	145.1	42.0					
FBE	e PKPbc	Z 20:34:50.2	145.2	42.9					
NEUB	e PKPbc	Z 20:34:51.6	145.7	40.3					
TANN	e PKPbc	Z 20:34:52.7	146.0	42.1					
WERD	e PKPbc	Z 20:34:52.9	146.0	41.9					
WERN	e PKPbc	Z 20:34:53.7	146.1	42.1					
IBBN	e PKPbc	Z 20:34:52.9	146.3	33.3					
GEC2	e PKPbc	Z 20:34:54.7	146.5	45.6					
ROTZ	e PKPbc	Z 20:34:54.6	146.6	42.4					
GRA1	e PKPbc	Z 20:34:55.9	147.0	41.0					
BUG	e PKPbc	Z 20:34:57.4	147.2	33.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/28	00:59:31.9	57.805N	120.005E	33.0N	4.5			SZGRF

Southeastern Siberia, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:09:19.6	57.7	36.6	1.0	5	4.5		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/28	03:12:28.1	39.602N	144.442E	33.0N	5.1			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:24:43.5	81.7	34.6	1.1	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/28	12:03:22.9	35.414N	26.311E	10.0G		4.1		SZGRF

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RJOB	e Pn	Z 12:07:06.9	15.9	135.9					
GEC2	e Pn	Z 12:07:11.4	16.3	140.7					
WET	e Pn	Z 12:07:19.2	16.9	139.3					
ROTZ	e Pn	Z 12:07:27.7	17.7	139.1					
BRG	e Pn	Z 12:07:30.8	17.8	145.3					
GRA1	e Pn	Z 12:07:31.8	18.0	136.7					
	e L	Z 12:15:23.7			11.4	578		4.1	
TANN	e Pn	Z 12:07:32.7	18.0	141.0					
BFO	e Pn	Z 12:07:37.8	18.5	127.6					
CLL	e Pn	Z 12:07:38.2	18.5	143.8					
MOX	e Pn	Z 12:07:38.3	18.6	139.5					
TNS	e P	Z 12:07:50.5	19.7	132.0					
WLF	e P	Z 12:08:00.0	20.5	126.5					
BUG	e P	Z 12:08:09.3	21.0	132.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 15:43:27.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/28								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:06:05.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/29	00:00:33.1	16.840S	175.110W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	00:20:05.3	144.9	13.6					
BUG	e PKPbc	Z	00:20:07.3	145.3	4.0					
MOX	e PKPbc	Z	00:20:08.1	145.8	11.5					
UBBA	e PKPbc	Z	00:20:08.1	145.8	8.7					
TANN	e PKPbc	Z	00:20:08.8	145.9	13.0					
MANZ	e PKPbc	Z	00:20:10.3	146.3	12.5					
ROTZ	e PKPbc	Z	00:20:11.3	146.5	12.8					
GRA1	e PKPbc	Z	00:20:12.0	146.8	11.1					
GEC2	e PKPbc	Z	00:20:12.8	147.2	15.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/29	04:45:51.6	67.840N	17.150W	33.0N	4.6	3.8		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:50:11.9	19.0	327.7	1.6	49	4.5		
BUG	e P	Z	04:50:25.6	20.2	333.2	1.3	59	4.7		
CLZ	e P	Z	04:50:31.9	20.8	330.6	1.4	58	4.7		
RUE	e P	Z	04:50:37.6	21.3	327.8	0.5	42	5.0		
UBBA	e P	Z	04:50:39.4	21.6	332.1	1.7	33	4.5		
TNS	e P	Z	04:50:40.9	21.7	333.8	1.7	68	4.8		
CLL	e P	Z	04:50:44.8	22.1	329.7	1.3	45	4.7		
MOX	e P	Z	04:50:46.3	22.2	331.3	1.3	15	4.3		
FBE	e P	Z	04:50:49.6	22.5	330.0	1.9	63	4.8		
WERD	e P	Z	04:50:50.3	22.6	331.1	1.7	31	4.5		
TANN	e P	Z	04:50:51.5	22.7	331.1	1.6	19	4.4		
BRG	e P	Z	04:50:52.1	22.7	329.7	2.0	62	4.8		
GRA1	e P	Z	04:50:54.4	22.9	332.6	0.9	15	4.5		
	e L	Z	05:00:33.1			19.0	348		3.8	
ROTZ	e P	Z	04:50:56.2	23.2	332.0	1.9	42	4.6		
BFO	e P	Z	04:50:58.1	23.3	335.8	1.3	21	4.5		
WET	e P	Z	04:51:03.9	23.9	332.3	2.6	84	4.8		
GEC2	e P	Z	04:51:08.9	24.4	332.1	1.5	38	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/29	09:23:43.3	38.769N	27.765E	33.0G	4.5	4.5		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	09:27:08.2	14.3	129.7	1.4	47	4.4		
WET	e P	Z	09:27:16.0	14.9	128.7	1.2	53	4.5		
	e S	T	09:30:29.7							

BRG	e P	Z	09:27:24.1	15.5	135.9	1.2	31	4.3	
ROTZ	e P	Z	09:27:24.6	15.6	128.9	1.4	49	4.4	
	e S	T	09:30:42.3						
MANZ	e P	Z	09:27:27.3	15.8	129.3	2.0	101	4.6	
	e S	T	09:30:46.7						
FBE	e P	Z	09:27:27.8	15.8	134.6	1.1	34	4.4	
WERN	e P	Z	09:27:28.9	15.8	130.7	1.4	37	4.3	
TANN	e P	Z	09:27:28.1	15.9	131.3	1.6	64	4.5	
WERD	e P	Z	09:27:29.9	16.0	131.0	1.2	21	4.2	
GRA1	e P	Z	09:27:30.2	16.1	126.6	1.6	66	4.5	
	e S	Z	09:31:00.7						
	e L	Z	09:35:00.7			20.1	2368		4.5
GRFO	e P	Z	09:27:30.2	16.1	126.6	1.6	57	4.5	
CLL	e P	Z	09:27:32.3	16.2	134.8	1.0	20	4.3	
	e S	T	09:30:55.4						
MOX	e P	Z	09:27:35.2	16.4	130.0	1.1	38	4.5	
STU	e P	Z	09:27:37.2	16.7	120.0	0.9	76	4.9	
NEUB	e P	Z	09:27:38.8	16.7	131.8	1.3	44	4.5	
BFO	e P	Z	09:27:40.0	16.9	117.1	1.4	79	4.8	
	e S	T	09:31:04.6						
UBBA	e P	Z	09:27:44.1	17.4	127.1	1.3	28	4.3	
	e S	T	09:31:15.0						
CLZ	e P	Z	09:27:49.1	17.8	130.4	1.2	35	4.5	
TNS	e P	Z	09:27:48.8	17.8	122.6	1.2	42	4.6	
	e S	T	09:31:22.8						
WLF	e P	Z	09:28:01.0	18.8	117.1	1.0	74	4.9	
BUG	e P	Z	09:28:02.4	19.1	123.5	1.1	33	4.6	
BSEG	e P	Z	09:28:03.9	19.3	134.9	1.5	51	4.7	
	e S	T	09:31:47.0						
IBBN	e P	Z	09:28:05.8	19.4	126.4	0.9	21	4.6	

Date 2007/10/29
 Origin Time 19:41:56.4
 Turkey
 Lat 37.251N
 Long 28.582E
 Depth 33.0G
 mb 4.0
 Ms 3.6
 ML
 Source SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 19:45:38.2	15.8	131.5	1.2	13	3.9		
WET	e P	Z 19:45:44.3	16.4	130.4	1.5	31	4.2		
BRG	e P	Z 19:45:51.2	17.1	137.0	1.2	10	3.8		
ROTZ	e P	Z 19:45:53.4	17.2	130.6	1.3	17	4.0		
MANZ	e P	Z 19:45:55.7	17.4	130.9	1.1	12	3.9		
WERD	e P	Z 19:45:58.0	17.6	132.4	1.0	7	3.7		
GRA1	e P	Z 19:45:57.8	17.6	128.3	1.4	18	4.0		
	e S	T 19:49:14.3							
	e L	Z 19:53:26.6			19.7	406		3.6	
CLL	e P	Z 19:45:59.1	17.9	135.8	1.5	10	3.7		
MOX	e P	Z 19:46:03.0	18.0	131.4	1.3	21	4.1		

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STU	e P	Z	19:46:04.2	18.2	122.1	0.8	18	4.3
BFO	e P	Z	19:46:07.2	18.4	119.4	1.2	18	4.1
TNS	e P	Z	19:46:18.4	19.4	124.3	1.7	54	4.5
CLZ	e P	Z	19:46:16.8	19.4	131.6	1.3	15	4.1
WLF	e P	Z	19:46:28.5	20.3	119.1			
BSEG	e P	Z	19:46:34.0	20.9	135.6	1.1	21	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/30	02:29:55.1	21.890S	169.880E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	02:49:30.4	145.5	41.9					
CLZ	e PKPbc	Z	02:49:31.2	146.1	35.6					
WERD	e PKPbc	Z	02:49:31.4	146.5	39.9					
WERN	e PKPbc	Z	02:49:32.4	146.6	40.1					
MANZ	e PKPbc	Z	02:49:33.7	146.9	40.0					
ROTZ	e PKPbc	Z	02:49:33.9	147.0	40.4					
GEC2	e PKPbc	Z	02:49:34.7	147.1	43.6					
GRA1	e PKPbc	Z	02:49:34.8	147.5	38.9					
TNS	e PKPbc	Z	02:49:38.2	148.1	34.0					
BFO	e PKPbc	Z	02:49:41.5	149.7	35.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/30	02:49:56.6	4.800S	154.100E	401.0				NEIC

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	03:08:06.2	122.7	44.4					
BRG	e PKPdf	Z	03:08:07.3	123.2	49.7					
	e pPKPdf	Z	03:09:40.5							
CLL	e PKPdf	Z	03:08:07.3	123.4	48.5					
FBE	e PKPdf	Z	03:08:07.4	123.5	49.1					
CLZ	e PKPdf	Z	03:08:09.3	124.2	45.5					
	e pPKPdf	Z	03:09:44.0							
TANN	e PKPdf	Z	03:08:09.1	124.2	48.4					
WERD	e PKPdf	Z	03:08:09.0	124.3	48.2					
WERN	e PKPdf	Z	03:08:09.4	124.3	48.4					
MOX	e PKPdf	Z	03:08:09.2	124.5	47.4					
GEC2	e PKPdf	Z	03:08:09.7	124.6	50.5					
	e pPKPdf	Z	03:09:48.0							
MANZ	e PKPdf	Z	03:08:10.0	124.7	48.3					
ROTZ	e PKPdf	Z	03:08:10.0	124.8	48.5					
WET	e PKPdf	Z	03:08:10.5	124.9	49.5					
GRA1	e PKPdf	Z	03:08:11.1	125.3	47.5					

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RJOB	e	PKPdf	Z	03:08:11.6	125.8	50.2
TNS	e	PKPdf	Z	03:08:12.9	126.2	44.2
FUR	e	PKPdf	Z	03:08:13.1	126.3	48.3
STU	e	PKPdf	Z	03:08:14.5	126.9	45.8
BFO	e	PKPdf	Z	03:08:15.1	127.6	45.0

Date	Origin	Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/30									

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKP	Z	05:17:34.0					

Date	Origin	Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/30	08:32:46.2		22.060S	171.260E	33.0N				SZGRF
Southeast of Loyalty Islands									

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	08:52:18.6	145.0	31.9			
BRG	e	PKPbc	Z	08:52:22.1	146.2	40.0			
CLL	e	PKPbc	Z	08:52:22.4	146.2	38.1			
FBE	e	PKPbc	Z	08:52:22.9	146.4	39.0			
CLZ	e	PKPbc	Z	08:52:24.7	146.8	33.6			
NEUB	e	PKPbc	Z	08:52:24.7	146.8	36.4			
TANN	e	PKPbc	Z	08:52:25.8	147.1	38.2			
WERD	e	PKPbc	Z	08:52:25.7	147.2	37.9			
WERN	e	PKPbc	Z	08:52:26.2	147.3	38.1			
MOX	e	PKPbc	Z	08:52:25.9	147.3	36.6			
MANZ	e	PKPbc	Z	08:52:27.1	147.6	38.0			
UBBA	e	PKPbc	Z	08:52:26.9	147.7	33.9			
ROTZ	e	PKPbc	Z	08:52:26.8	147.8	38.4			
GEC2	e	PKPbc	Z	08:52:27.5	147.8	41.6			
WET	e	PKPbc	Z	08:52:28.1	148.0	40.1			
GRA1	e	PKPbc	Z	08:52:28.5	148.2	36.9			
TNS	e	PKPbc	Z	08:52:30.2	148.8	31.9			
STU	e	PKPbc	Z	08:52:32.5	149.7	34.5			
WLF	e	PKPbc	Z	08:52:33.7	150.0	28.4			
BFO	e	PKPbc	Z	08:52:33.5	150.4	33.4			

Date	Origin	Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/31	03:05:0.8		37.687N	122.841W	33.0N	5.5			SZGRF
Central California, United States									

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 03:17:26.5 83.7 325.1 1.5 45 5.5

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/31 03:30:20.2 18.900N 145.300E 248.0 NEIC
 Mariana Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e pPP	Z 03:48:00.4	95.9	45.0					
	e SKS	R 03:53:31.6							
RUE	e Pdiff	Z 03:43:25.4	97.2	45.6					
	e pPdiff	Z 03:44:16.2							
	e pPP	Z 03:48:11.9							
	e SKS	R 03:53:35.5							
BSEG	e Pdiff	Z 03:43:26.6	97.6	42.5					
	e pPdiff	Z 03:44:17.1							
	e pPP	Z 03:48:12.9							
	e SKS	R 03:53:41.1							
BRG	e Pdiff	Z 03:43:29.8	98.2	45.9					
	e pPdiff	Z 03:44:20.3							
	e pPP	Z 03:48:18.3							
	e SKS	R 03:53:42.6							
HLG	e pPP	Z 03:48:18.3	98.3	40.3					
	e SKS	R 03:53:43.4							
CLL	e Pdiff	Z 03:43:30.1	98.3	45.0					
	e pPdiff	Z 03:44:20.6							
	e pPP	Z 03:48:18.0							
	e SKS	R 03:53:43.7							
CLZ	e Pdiff	Z 03:43:33.9	99.1	42.7					
	e pPdiff	Z 03:44:24.6							
	e pPP	Z 03:48:23.0							
	e SKS	R 03:53:47.2							
TANN	e Pdiff	Z 03:43:34.7	99.2	44.7					
	e pPdiff	Z 03:44:25.9							
	e pPP	Z 03:48:24.8							
	e SKS	R 03:53:47.2							
MOX	e Pdiff	Z 03:43:35.3	99.4	43.9					
	e pPdiff	Z 03:44:25.9							
	e pPP	Z 03:48:25.8							
	e SKS	R 03:53:47.5							
MANZ	e Pdiff	Z 03:43:36.7	99.7	44.4					
	e pPdiff	Z 03:44:26.5							
	e pPP	Z 03:48:27.3							
	e SKS	R 03:53:50.0							
GEC2	e Pdiff	Z 03:43:36.6	99.8	45.9					
	e pPdiff	Z 03:44:26.8							
	e pPP	Z 03:48:28.7							
	e SKS	R 03:53:50.0							

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ROTZ	e Pdiff	Z	03:43:37.4	99.8	44.5
	e pPdiff	Z	03:44:27.8		
	e pPP	Z	03:48:27.3		
	e SKS	R	03:53:49.8		
WET	e pPdiff	Z	03:44:28.4	99.9	45.2
	e pPP	Z	03:48:26.9		
	e SKS	R	03:53:49.0		
UBBA	e pPdiff	Z	03:44:28.1	100.0	42.5
	e pPP	Z	03:48:26.6		
	e SKS	R	03:53:51.4		
GRA3	e PKKPbc	Z	03:59:53.4	100.2	43.8
GRA1	e Pdiff	Z	03:43:39.6	100.3	43.7
	e pPdiff	Z	03:44:29.6		
	e pPP	Z	03:48:31.2		
	e SKS	R	03:53:53.4		
GRFO	e pPP	Z	03:48:31.6	100.3	43.7
	e SKS	R	03:53:53.4		
BUG	e pPdiff	Z	03:44:30.9	100.7	40.1
	e pPP	Z	03:48:32.7		
	e SKS	R	03:53:54.4		
RJOB	e Pdiff	Z	03:43:43.0	101.0	45.3
	e pPdiff	Z	03:44:33.1		
	e pPP	Z	03:48:38.4		
	e SKS	R	03:53:50.3		
TNS	e Pdiff	Z	03:43:43.1	101.1	41.3
	e pPdiff	Z	03:44:33.7		
	e pPP	Z	03:48:35.9		
	e SKS	R	03:53:58.2		
FUR	e Pdiff	Z	03:43:44.4	101.4	43.9
	e pPdiff	Z	03:44:34.3		
	e pPP	Z	03:48:42.0		
	e SKS	R	03:53:57.4		
STU	e Pdiff	Z	03:43:46.4	101.9	42.1
	e pPdiff	Z	03:44:36.5		
	e pPP	Z	03:48:44.5		
	e SKS	R	03:54:00.3		
BFO	e Pdiff	Z	03:43:49.5	102.6	41.4
	e pPdiff	Z	03:44:39.7		
	e pPP	Z	03:48:49.9		
	e SKS	R	03:54:00.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/31	09:06:31.5	50.490N	90.350E	15.3	5.4			SZGRF
Tuva-Buryatia-Mongolia border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 09:14:55.9	46.1	59.0					

CLL	e P	Z	09:14:58.1	46.4	59.0	0.9	45	5.6
	e pP	Z	09:15:02.0					
FBE	e P	Z	09:14:58.4	46.4	58.8	1.1	44	5.5
	e pP	Z	09:15:02.7					
BSEG	e P	Z	09:14:59.6	46.5	59.8	1.0	48	5.6
TANN	e P	Z	09:15:04.4	47.2	58.0	1.1	29	5.3
	e pP	Z	09:15:08.6					
WERD	e P	Z	09:15:04.8	47.3	58.0	1.1	26	5.3
	e pP	Z	09:15:09.0					
GUNZ	e P	Z	09:15:05.1	47.3	57.9	1.0	35	5.5
	e pP	Z	09:15:09.0					
WERN	e P	Z	09:15:05.3	47.3	57.9	1.0	37	5.5
	e pP	Z	09:15:09.2					
GEC2	e P	Z	09:15:05.6	47.3	57.3	1.2	19	5.1
	e pP	Z	09:15:09.6					
MOX	e P	Z	09:15:07.0	47.5	57.8	1.1	40	5.5
CLZ	e P	Z	09:15:07.6	47.5	58.1	1.1	33	5.4
	e pP	Z	09:15:11.5					
MANZ	e P	Z	09:15:07.6	47.6	57.5	1.3	23	5.1
WET	e P	Z	09:15:07.9	47.6	57.2	1.1	28	5.3
	e pP	Z	09:15:12.2					
ROTZ	e P	Z	09:15:08.4	47.7	57.4	1.0	27	5.3
	e pP	Z	09:15:12.7					
GRA1	e P	Z	09:15:12.8	48.2	56.9	1.2	77	5.7
	e pP	Z	09:15:17.0					
UBBA	e P	Z	09:15:12.6	48.3	57.2	1.3	24	5.2
RJOB	e P	Z	09:15:14.5	48.5	56.1	1.0	21	5.1
FUR	e P	Z	09:15:19.1	49.1	55.8	1.3	77	5.6
BUG	e P	Z	09:15:21.1	49.4	56.3	1.0	56	5.4
TNS	e P	Z	09:15:21.7	49.4	56.0	1.1	25	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/31	13:44:18.3	51.120N	179.220W	33.0N	6.0	5.8		SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	13:55:52.5	73.8	8.2	1.8	808	6.5		
BSEG	e P	Z	13:55:57.2	74.6	6.2	1.9	530	6.3		
RUE	e P	Z	13:56:03.5	75.8	8.4	1.8	404	6.3		
IBBN	e P	Z	13:56:07.1	76.4	4.5	1.8	907	6.6		
	e S	T	14:05:49.4							
CLZ	e P	Z	13:56:09.1	76.7	6.2	1.8	510	6.4		
	e S	T	14:05:52.0							
CLL	e P	Z	13:56:10.1	77.0	7.8	1.2	103	5.8		
BUG	e P	Z	13:56:11.6	77.3	4.2	1.7	308	6.2		
	e S	T	14:05:58.6							
BRG	e P	Z	13:56:12.2	77.4	8.4	1.6	167	5.9		

	e S	T	14:05:59.3							
FBE	e P	Z	13:56:12.5	77.4	8.0	1.7	378	6.3		
UBBA	e P	Z	13:56:14.4	77.8	5.9	1.8	282	6.1		
	e S	T	14:06:02.6							
MOX	e P	Z	13:56:14.8	77.8	6.9	1.2	118	5.9		
WERD	e P	Z	13:56:15.7	78.0	7.4	1.6	187	6.0		
TANN	e P	Z	13:56:15.9	78.0	7.5	1.6	174	5.9		
GUNZ	e P	Z	13:56:16.2	78.0	7.4	1.5	188	6.0		
WERN	e P	Z	13:56:16.6	78.1	7.4	1.6	280	6.1		
MANZ	e P	Z	13:56:18.2	78.4	7.2	1.4	82	5.6		
TNS	e P	Z	13:56:18.3	78.4	4.9	1.7	250	6.0		
ROTZ	e P	Z	13:56:19.8	78.6	7.3	1.5	161	5.8		
GRA1	e P	Z	13:56:20.6	78.8	6.7	1.6	440	6.2		
	e S	T	14:06:14.3							
	e L	Z	14:35:23.7			21.3	4942		5.8	
GRFO	e S	T	14:06:14.4	78.8	6.7					
WLF	e P	Z	13:56:22.3	79.1	3.4	1.6	234	6.0		
	e S	T	14:06:19.0							
WET	e P	Z	13:56:22.7	79.2	7.7	1.5	131	5.6		
	e S	T	14:06:17.4							
GEC2	e P	Z	13:56:23.8	79.4	8.2	1.0	74	5.6		
STU	e P	Z	13:56:25.8	79.9	5.4	1.3	123	5.7		
FUR	e P	Z	13:56:28.5	80.3	6.7	1.4	189	5.9		
BFO	e P	Z	13:56:28.4	80.3	4.8	1.3	115	5.7		
RJOB	e P	Z	13:56:30.2	80.6	7.6	0.9	45	5.5		

Date Origin Time Lat Long Depth mb Ms ML Source
 2007/10/31 15:54:34.0 4.580S 102.590E 49.7 5.6 4.5
 Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 16:07:41.0	92.7	93.9	1.0	35	5.7		
GEC2	e P	Z 16:07:41.0	92.7	93.9	1.4	70	5.9		
RUE	e P	Z 16:07:42.0	92.9	93.7	1.1	95	6.1		
FBE	e P	Z 16:07:42.7	93.1	93.5	1.0	34	5.7		
	e pP	Z 16:07:56.6							
RJOB	e P	Z 16:07:42.7	93.2	93.2	1.1	22	5.5		
	e pP	Z 16:07:58.2							
WET	e P	Z 16:07:43.7	93.3	93.2	1.2	47	5.8		
CLL	e P	Z 16:07:43.2	93.3	93.2	1.2	25	5.5		
GUNZ	e P	Z 16:07:45.5	93.7	92.7	1.1	27	5.5		
MANZ	e P	Z 16:07:46.3	93.8	92.6	1.3	52	5.7		
	e pP	Z 16:08:00.3							
MOX	e P	Z 16:07:47.5	94.2	92.2	1.4	27	5.4		
GRA1	e P	Z 16:07:48.8	94.4	91.9	1.1	35	5.6		
	e L	Z 16:54:35.6			21.0	163		4.5	
CLZ	e P	Z 16:07:51.2	95.0	91.1	1.1	21	5.5		

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BSEG	e P	Z	16:07:51.2	95.0	90.9	1.0	17	5.4
TNS	e P	Z	16:07:56.9	96.2	89.8	1.0	33	5.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/31	17:58: 0.6	37.000N	29.300E	5.0G	4.0			KAN

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:02:16.6	18.2	127.4	1.5	19	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/31	21:16: 8.3	4.384N	46.419W	33.0N	5.1			SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:26:53.2	66.2	247.0	1.1	14	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2007/10/31	22:06:45.8	32.900S	178.300W	35.0	5.4	5.3		NEIC

South of Kermadec Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:27:28.8	161.8	26.4	1.0	34	5.4		
	e L	Z 23:45:54.7			18.5	373		5.3	

Format description

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

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

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

EPICENTER LINES:

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

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

COMMENT LINE:

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

REGION LINE:

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

PHASE LINE:

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