

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

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

OCTOBER 2006 UPDATED 25.SEPTEMBER.2007

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	00:04:14.2	45.982N	154.541E	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 00:16:16.2	79.2	25.0	1.2	27	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	01:28:29.0	46.353N	151.980E	33.0N	4.8			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:40:25.2	78.1	26.5	0.8	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	02:08: 5.8	48.005N	154.040E	33.0N	4.4			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:19:56.7	77.2	24.5	1.1	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	02:24: 9.1	46.675N	151.607E	33.0N	5.3			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:36:03.0	77.7	26.6	0.9	24	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	03:25:44.8	12.054N	95.537E	33.0N	4.8			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:37:35.8	77.2	86.4	1.3	11	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	03:27:46.4	9.389N	97.505E	33.0N	4.5			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:39:55.3	80.5	86.7	1.1	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	04:28:43.2	47.141N	155.064E	33.0N	5.2			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:40:40.1	78.2	24.2	1.1	26	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	04:52:44.9	47.041N	152.303E	32.5	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:04:38.0	77.6	26.0	0.9	14	5.1		
	e pP	Z 05:04:47.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	05:15:54.4	46.064N	153.874E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:27:55.0	78.9	25.4	0.9	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	05:42:51.3	18.613N	120.697E	33.0N	5.1			SZGRF
Luzon, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:55:37.4	87.8	63.4	1.9	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	09:06:18.4	48.271N	151.133E	33.0N	6.4	6.6		SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 09:17:42.8	72.6	26.2	2.1	1237	6.7		
RUE	e P	Z 09:17:44.7	72.9	28.1	1.9	1636	6.8		
NRDL	e P	Z 09:17:50.5	73.9	25.8	1.0	247	6.2		
CLL	e P	Z 09:17:51.7	74.2	27.5	0.9	582	6.7		
	e PP	Z 09:20:43.0							
	e PPP	Z 09:22:34.9							
	e S	E 09:27:37.7							
	e SS	N 09:32:46.4							
	e SSS	N 09:36:09.2							
	e LR	Z 09:42:47.6							
	e L	Z 09:54:06.7			20.0	28248		6.6	
BRG	e P	Z 09:17:52.5	74.3	28.0					
FBE	e P	Z 09:17:52.9	74.4	27.7	1.0	379	6.4		
CLZ	e P	Z 09:17:53.7	74.4	25.9	1.0	443	6.4		
IBBN	e P	Z 09:17:54.8	74.7	24.3	1.0	421	6.4		
GTTG	e P	Z 09:17:56.6	74.8	25.6	1.0	269	6.2		
TANN	e P	Z 09:17:57.6	75.1	27.1	1.5	304	6.1		
WERD	e P	Z 09:17:57.2	75.1	27.0	1.1	246	6.1		
MOX	e P	Z 09:17:57.6	75.2	26.6	1.1	334	6.4		
GUNZ	e P	Z 09:17:57.7	75.2	27.0	1.7	604	6.4		
WERN	e P	Z 09:17:58.1	75.3	27.0	1.0	267	6.3		
UBBA	e P	Z 09:17:59.1	75.5	25.6	1.6	447	6.3		
BUG	e P	Z 09:17:59.8	75.6	23.9	1.0	395	6.5		
MANZ	e P	Z 09:18:00.4	75.6	26.8	1.0	214	6.2		
ROTZ	e P	Z 09:18:01.5	75.8	26.8	1.1	354	6.4		
GRA1	e P	Z 09:18:03.5	76.1	26.2	1.0	632	6.7		
	e L	Z 09:56:22.2			18.7	27558		6.6	
WET	e P	Z 09:18:03.5	76.1	27.2	1.0	386	6.5		
GEC2	e P	Z 09:18:03.3	76.2	27.6	0.9	168	6.2		
TNS	e P	Z 09:18:04.7	76.4	24.5	1.4	544	6.5		
FUR	e P	Z 09:18:10.8	77.5	26.1	1.1	685	6.7		
WLF	e P	Z 09:18:11.0	77.5	23.0	2.0	580	6.4		
BFO	e P	Z 09:18:14.2	78.2	24.3	1.2	402	6.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	09:10: 5.7	46.987N	154.535E	33.0N	5.6			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:22:02.6	78.2	24.6	0.9	51	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	09:12:53.9	46.030N	152.349E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:24:52.2	78.5	26.4	0.9	15	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	09:38:30.6	46.918N	153.328E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:50:26.1	78.0	25.4	0.9	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	09:44: 0.0	46.637N	152.885E	33.0N	4.5			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:55:56.1	78.1	25.8	0.9	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	09:50:25.0	47.240N	151.535E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:02:15.9	77.2	26.4	0.8	12	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/10/01 11:04:58.6 46.022N 154.209E 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 11:16:59.9	79.0	25.2	1.1	18	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	11:01:42.1	23.470S	178.640W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 11:21:26.0	148.8	16.0					
	e PKPab	Z 11:21:30.1							
RUE	e PKPbc	Z 11:21:28.0	149.5	22.9					
NRDL	e PKPbc	Z 11:21:30.0	150.2	16.3					
CLL	e PKPbc	Z 11:21:31.2	150.7	22.3					
	e PKPab	Z 11:21:37.8							
IBBN	e PKPbc	Z 11:21:31.2	150.8	12.1					
BRG	e PKPab	Z 11:21:38.8	150.9	24.3					
FBE	e PKPbc	Z 11:21:32.3	151.0	23.2					
	e PKPab	Z 11:21:39.4							
BUG	e PKPbc	Z 11:21:33.2	151.7	11.5					
MOX	e PKPbc	Z 11:21:33.2	151.7	20.1					
WERD	e PKPbc	Z 11:21:33.6	151.7	21.6					
	e PKPab	Z 11:21:41.9							
GUNZ	e PKPbc	Z 11:21:33.9	151.8	21.7					
	e PKPab	Z 11:21:42.5							
WERN	e PKPbc	Z 11:21:33.8	151.8	21.8					
	e PKPab	Z 11:21:42.9							
MANZ	e PKPbc	Z 11:21:34.7	152.2	21.5					
ROTZ	e PKPbc	Z 11:21:35.2	152.4	21.8					
GRA1	e PKPab	Z 11:21:46.4	152.7	20.0					
GRFO	e PKPbc	Z 11:21:35.8	152.7	20.0					
	e PKPab	Z 11:21:46.5							
TNS	e PKPbc	Z 11:21:35.8	152.7	14.3					
GEC2	e PKPbc	Z 11:21:35.9	152.8	25.4					
FUR	e PKPbc	Z 11:21:38.3	154.1	21.2					
	e PKPab	Z 11:21:52.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	12:40:16.7	47.359N	153.826E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:52:10.6	77.7	24.9	3.0	38	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	12:53:44.4	46.555N	153.095E	33.0N	4.9			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:05:41.3	78.2	25.7	1.0	12	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	13:07:11.1	46.592N	153.694E	33.0N	5.0			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:19:08.8	78.4	25.3	1.0	16	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	15:01:25.1	46.554N	151.688E	33.0N	4.8			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:13:19.8	77.8	26.6	0.9	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	15:58:57.1	26.700S	114.900W	10.0N				NEIC
Easter Island region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 16:18:12.8	133.1	278.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/01	16:35:31.1	45.826N	154.023E	33.0N	4.6			SZGRF
East of Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:47:33.1	79.2	25.4	1.3	12	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/10/01 16:52: 4.1 46.633N 151.478E 33.0N 4.7 SZGRF
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:03:58.0	77.7	26.7	0.8	5	4.7		

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/01 17:07:30.6 39.617N 143.513E 68.3 5.0 SZGRF
Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:19:39.5	81.3	35.2	1.0	13	5.0		
	e pP	Z 17:19:58.2							

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/01 19:18: 3.7 44.581N 9.433E 10.0G 3.1 SZGRF
Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 19:18:49.2	2.7	186.7					3.1
WTTA	e Pn	Z 19:18:53.6	3.1	210.5					3.0
	e Sn	N 19:19:30.8							
KBA	e Pn	Z 19:19:00.6	3.7	228.9					
BFO	e Pn	Z 19:19:02.5	3.8	168.1					3.2
	e Sn	N 19:19:46.1							
MOA	e Pn	Z 19:19:13.6	4.7	227.4					
WET	e Pn	Z 19:19:19.5	5.1	208.6					
	e Sn	N 19:20:16.9							
GEC2	e Pn	Z 19:19:19.7	5.2	216.0					
	e Sn	N 19:20:18.7							
MOX	e Sn	E 19:20:43.6	6.2	194.5					

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/02

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:26:08.3			1.0	8			

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/02 01:23:31.2 55.246N 161.143W 33.0N 4.8 SZGRF
Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:35:08.9	74.9	355.5	0.8	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02	02:02:40.8	22.239S	174.753W	33.0N				SZGRF

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 02:22:23.4	148.1	8.9					
NRDL	e PKPbc	Z 02:22:26.9	149.5	8.9					
IBBN	e PKPbc	Z 02:22:27.9	149.9	4.6					
CLZ	e PKPbc	Z 02:22:28.6	150.1	9.6					
CLL	e PKPbc	Z 02:22:28.8	150.3	14.6					
BRG	e PKPbc	Z 02:22:29.4	150.6	16.5					
MOX	e PKPbc	Z 02:22:30.6	151.2	12.3					
TANN	e PKPbc	Z 02:22:30.9	151.3	14.0					
MANZ	e PKPbc	Z 02:22:32.2	151.7	13.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02	02:18:36.5	47.393N	154.434E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:30:31.1	77.8	24.5	0.9	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:20:28.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02	04:19: 2.8	57.338N	148.254W	33.0N	5.0			SZGRF

Gulf of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:30:21.5	71.6	348.5	0.5	6	5.0		

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02	07:09:10.0	46.677N	153.016E	33.0N	5.2			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:21:06.2	78.1	25.7	1.2	23	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02	15:10:22.4	46.716N	151.736E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:22:16.3	77.7	26.5	1.0	17	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/02	17:25:54.3	45.318N	154.184E	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 17:37:59.0	79.7	25.5	0.9	19	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/03	03:29: 7.7	25.622S	175.045W	33.0N				SZGRF

South of Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:48:59.1	155.4	13.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/03	09:42: 8.0	9.123N	93.618E	33.0N	4.7			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:54:04.4	78.1	89.8	1.0	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/03	17:10:37.4	46.188N	153.399E	33.0G	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	17:22:24.5	76.7	27.0	0.7	14	5.2		
BRG	e P	Z	17:22:25.7	76.8	27.5					
TANN	e P	Z	17:22:29.9	77.7	26.5	1.5	9	4.7		
MOX	e P	Z	17:22:30.7	77.7	26.0	1.1	10	4.8		
UBBA	e P	Z	17:22:31.6	78.0	25.0	0.8	4	4.6		
MANZ	e P	Z	17:22:33.4	78.2	26.3	0.9	5	4.6		
ROTZ	e P	Z	17:22:34.4	78.3	26.3	0.9	7	4.7		
GRA1	e P	Z	17:22:36.6	78.7	25.7	1.0	18	5.1		
WET	e P	Z	17:22:36.5	78.7	26.7	1.1	12	4.8		
GEC2	e P	Z	17:22:36.6	78.7	27.2	0.8	4	4.5		
TNS	e P	Z	17:22:36.5	78.9	23.9	0.7	8	4.8		
BFO	e P	Z	17:22:47.2	80.7	23.7	1.0	12	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/03 18:02:51.4 19.867S 171.871E 33.0N
 Vanuatu Islands region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:22:19.2	143.1	29.7					
	e SKP	Z	18:25:46.6							
NRDL	e PKPbc	Z	18:22:23.4	144.4	30.4					
BRG	e PKPbc	Z	18:22:23.7	144.5	37.4					
	e SKP	Z	18:25:49.0							
CLL	e PKPbc	Z	18:22:22.8	144.5	35.7					
	e SKP	Z	18:25:49.1							
CLZ	e PKPbc	Z	18:22:25.2	144.9	31.3					
IBBN	e PKPbc	Z	18:22:26.7	145.3	26.9					
	e SKP	Z	18:25:51.9							
TANN	e PKPbc	Z	18:22:25.9	145.4	35.6					
MOX	e PKPbc	Z	18:22:26.2	145.5	34.1					
MANZ	e PKPbc	Z	18:22:27.8	145.9	35.4					
	e SKP	Z	18:25:54.2							
UBBA	e PKPbc	Z	18:22:27.9	145.9	31.5					
ROTZ	e PKPbc	Z	18:22:28.5	146.0	35.8					
GEC2	e PKPbc	Z	18:22:28.1	146.1	38.9					
	e SKP	Z	18:25:53.4							
BUG	e PKPbc	Z	18:22:28.8	146.2	26.7					
	e SKP	Z	18:25:53.3							
WET	e PKPbc	Z	18:22:28.8	146.2	37.4					
GRA1	e PKP	Z	18:22:29.7	146.4	34.3					
	e SS	T	18:44:29.7							
TNS	e PKPbc	Z	18:22:31.7	146.9	29.4					
FUR	e PKPbc	Z	18:22:33.5	147.7	35.7					
	e SKP	Z	18:25:56.5							
STU	e PKPbc	Z	18:22:33.7	147.9	31.8					
	e SKP	Z	18:25:56.6							

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WLF	e PKPbc	Z	18:22:34.3	148.1	26.0
	e SKP	Z	18:25:58.7		
BFO	e PKPbc	Z	18:22:35.1	148.6	30.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/03	18:37:54.0	22.990S	178.872W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	18:57:37.6	148.3	16.2					
NRDL	e PKPbc	Z	18:57:40.7	149.7	16.5					
CLL	e PKPbc	Z	18:57:42.1	150.2	22.4					
CLZ	e PKPbc	Z	18:57:42.7	150.3	17.4					
BRG	e PKPbc	Z	18:57:42.8	150.4	24.4					
MOX	e PKPbc	Z	18:57:44.4	151.2	20.3					
TANN	e PKPbc	Z	18:57:44.2	151.2	22.0					
UBBA	e PKPbc	Z	18:57:44.6	151.3	17.2					
MANZ	e PKPbc	Z	18:57:45.9	151.7	21.7					
ROTZ	e PKPbc	Z	18:57:46.2	151.8	22.0					
GRA1	e PKPbc	Z	18:57:46.3	152.1	20.2					
TNS	e PKPbc	Z	18:57:46.9	152.2	14.6					
GEC2	e PKPbc	Z	18:57:46.9	152.3	25.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/04	01:16:42.7	23.654S	179.623W	33.0N	4.3			NEIC
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	01:35:45.1	152.1	19.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/04	03:53:37.1	4.075N	126.687E	33.0N		5.2		GSRC
Talau Islands, Indonesia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z	04:07:34.3	102.9	67.5					
	e L	Z	04:57:46.9			20.3	765		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/04	07:40:58.1	46.500N	152.500E	33.0N	5.2	4.4		SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 07:52:38.4	74.6	26.0	1.0	33	5.3		
NRDL	e P	Z 07:52:45.4	75.9	25.7	0.9	19	5.2		
CLL	e P	Z 07:52:46.8	76.2	27.4	0.7	40	5.7		
BRG	e P	Z 07:52:47.6	76.3	28.0	1.0	8	4.8		
CLZ	e P	Z 07:52:48.8	76.4	25.8	0.8	38	5.6		
IBBN	e P	Z 07:52:50.5	76.7	24.1	0.9	42	5.6		
TANN	e P	Z 07:52:52.3	77.1	27.0	0.8	5	4.7		
MOX	e P	Z 07:52:52.6	77.2	26.4	1.0	20	5.2		
UBBA	e P	Z 07:52:54.1	77.5	25.4	0.9	12	5.0		
ROTZ	e P	Z 07:52:56.5	77.8	26.7	0.9	17	5.2		
GRA1	e P	Z 07:52:58.6	78.1	26.1	0.8	41	5.6		
	e L	Z 08:30:30.7			19.4	159		4.4	
GEC2	e P	Z 07:52:58.8	78.2	27.6	0.7	10	5.0		
TNS	e P	Z 07:52:59.6	78.4	24.4	1.0	22	5.1		
STU	e P	Z 07:53:05.6	79.5	24.7	0.6	16	5.1		
BFO	e P	Z 07:53:09.0	80.2	24.1	1.1	24	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/04 08:28:26.6 60.586N 166.509E 33.0N 4.9 4.4
 Eastern Siberia, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e P	Z 08:39:10.4	66.0	12.6	1.5	28	5.3		
CLL	e P	Z 08:39:11.0	66.1	13.9	1.0	8	4.9		
MOX	e P	Z 08:39:18.2	66.9	13.1	1.0	7	4.9		
GRA1	e P	Z 08:39:22.5	67.9	12.8	0.8	6	4.9		
	e L	Z 09:08:35.6			22.0	265		4.4	
WET	e P	Z 08:39:24.5	68.2	13.6	0.9	4	4.6		
GEC2	e P	Z 08:39:26.0	68.4	14.0	1.3	7	4.7		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/04 13:33:45.0 1.580N 96.860E 33.0G 5.2 4.3
 Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 13:46:10.3	84.3	94.5	0.9	10	5.1		
GEC2	e P	Z 13:46:10.4	84.3	94.1	1.1	20	5.3		
WET	e P	Z 13:46:13.2	84.9	93.5	1.0	15	5.2		
ROTZ	e P	Z 13:46:15.6	85.3	93.1	0.9	10	5.1		
MANZ	e P	Z 13:46:15.9	85.4	93.0	0.9	18	5.3		
GRA1	e P	Z 13:46:18.7	86.0	92.3	0.7	13	5.1		
	e L	Z 14:32:06.9			20.8	141		4.3	
CLZ	e P	Z 13:46:21.5	86.6	91.8	0.9	9	4.9		

BSEG	e P	Z	13:46:22.2	86.7	91.9	0.9	23	5.3
NRDL	e P	Z	13:46:22.7	86.8	91.6	1.1	20	5.1
TNS	e P	Z	13:46:27.3	87.8	90.2	0.9	9	5.1
IBBN	e P	Z	13:46:29.6	88.2	89.7	1.0	33	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/04	17:34:22.3	42.434N	15.621E	10.0G				SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	17:35:58.3	6.5	167.5					
	e Sn	E	17:37:11.5							
WET	e Pn	Z	17:36:03.7	7.0	163.1					
	e Sn	E	17:37:20.2							
ROTZ	e Pn	Z	17:36:13.1	7.7	160.9					
	e Sn	E	17:37:36.9							
BFO	e Pn	Z	17:36:14.4	7.8	136.4					
	e Sn	N	17:37:40.6							
GRA1	e Sn	N	17:37:42.0	7.9	155.6					
MANZ	e Pn	Z	17:36:16.1	7.9	160.9					
	e Sn	E	17:37:42.9							
WERN	e Pn	Z	17:36:20.1	8.2	162.9					
	e Sn	E	17:37:48.0							
GUNZ	e Pn	Z	17:36:21.2	8.2	162.8					
TANN	e Sn	N	17:37:51.2	8.3	163.6					
WERD	e Pn	Z	17:36:22.6	8.3	162.9					
FBE	e Pn	Z	17:36:26.6	8.6	168.8					
	e Sn	N	17:37:59.6							
TNS	e Pn	Z	17:36:33.8	9.2	144.9					
	e Sn	N	17:38:13.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/04	19:44:29.3	47.650N	152.070E	33.0N	5.0	4.0		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	19:56:09.3	75.0	27.2	1.0	21	5.1		
BRG	e P	Z	19:56:10.0	75.1	27.7	1.0	8	4.7		
CLZ	e P	Z	19:56:11.5	75.3	25.6	1.0	21	5.2		
TANN	e P	Z	19:56:15.6	76.0	26.7	1.4	10	4.7		
MOX	e P	Z	19:56:15.3	76.0	26.2	1.3	19	5.1		
UBBA	e P	Z	19:56:17.6	76.3	25.2	1.1	9	4.8		
BUG	e P	Z	19:56:17.6	76.4	23.5	1.3	33	5.3		
MANZ	e P	Z	19:56:18.2	76.4	26.5	1.2	13	5.0		

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ROTZ	e P	Z	19:56:19.7	76.6	26.5	1.2	16	5.0	
GRA1	e P	Z	19:56:20.9	77.0	25.9	1.1	22	5.2	
	e L	Z	20:42:20.1			18.7	67		4.0
WET	e P	Z	19:56:20.8	77.0	26.9	1.3	25	5.2	
GEC2	e P	Z	19:56:21.2	77.0	27.3				
TNS	e P	Z	19:56:22.6	77.2	24.2	1.2	21	5.1	
BFO	e P	Z	19:56:31.7	79.0	23.9	1.5	31	5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/05	04:53:1.4	13.110N	92.452E	32.8	4.8			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:04:25.6	72.6	90.4	1.1	9	4.8		
GEC2	e P	Z 05:04:26.5	72.8	89.6	1.2	9	4.8		
CLL	e P	Z 05:04:28.7	73.2	89.8	0.8	6	4.7		
WET	e P	Z 05:04:29.6	73.3	89.1	1.3	10	4.8		
TANN	e P	Z 05:04:31.2	73.6	89.2	1.2	8	4.6		
ROTZ	e P	Z 05:04:32.8	73.8	88.8	1.4	13	4.8		
MANZ	e P	Z 05:04:33.1	73.8	88.8	1.2	13	4.8		
MOX	e P	Z 05:04:34.3	74.1	88.6	0.9	6	4.6		
GRA1	e P	Z 05:04:36.4	74.4	88.0	0.9	8	4.8		
	e pP	Z 05:04:45.8							
BSEG	e P	Z 05:04:38.7	74.8	88.5	0.8	13	5.0		
CLZ	e P	Z 05:04:38.7	74.9	87.9	1.2	13	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	04:23:11.9	9.750N	92.000E	33.0N	4.9			SZGRF

Nicobar Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 04:34:48.8	74.9	93.0	1.9	32	5.0		
GEC2	e P	Z 04:34:49.5	75.0	92.3	1.3	9	4.6		
FBE	e P	Z 04:34:51.4	75.3	92.6	1.2	12	4.8		
WET	e P	Z 04:34:53.7	75.5	91.8	1.0	6	4.7		
GUNZ	e P	Z 04:34:56.0	75.9	91.7	1.5	20	5.0		
ROTZ	e P	Z 04:34:55.8	76.0	91.4	1.3	12	4.9		
MANZ	e P	Z 04:34:56.3	76.1	91.4	1.2	9	4.8		
GRA1	e P	Z 04:34:58.9	76.6	90.6	0.5	7	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	04:42:23.8	25.536S	12.418W	33.0N	4.9			SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:54:19.9	78.1	201.7	1.3	13	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	05:08:53.0	40.948S	80.541E	10.0G		5.1		NEIC

Mid-Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e SS	E 05:43:06.8	109.1	131.6					
	e L	Z 06:22:49.4			19.8	563		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	07:18:20.1	14.555N	55.828E	10.0G	4.9			NEIC

Owen Fracture Zone region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 07:27:02.5	48.6	120.0	2.0	36	5.0		
WET	e P	Z 07:27:07.9	49.2	119.4	1.8	22	4.9		
BRG	e P	Z 07:27:12.9	49.5	121.8	1.5	11	4.7		
FUR	e P	Z 07:27:10.8	49.7	117.0					
FBE	e P	Z 07:27:14.7	49.8	121.2	1.3	16	4.8		
ROTZ	e P	Z 07:27:14.0	49.9	119.2	1.4	11	4.6		
WERN	e P	Z 07:27:15.7	50.0	119.7	1.7	35	5.0		
MANZ	e P	Z 07:27:15.2	50.0	119.2	1.4	15	4.7		
TANN	e P	Z 07:27:16.3	50.1	119.9	2.3	63	5.1		
GUNZ	e P	Z 07:27:16.0	50.1	119.7	2.3	89	5.3		
WERD	e P	Z 07:27:16.3	50.2	119.8	1.3	12	4.7		
CLL	e P	Z 07:27:18.1	50.2	121.1	1.9	47	5.1		
GRA1	e P	Z 07:27:18.4	50.4	118.1	0.9	26	5.1		
MOX	e P	Z 07:27:19.6	50.6	119.2	1.7	24	4.9		
TNS	e P	Z 07:27:30.2	52.2	115.7	2.0	48	5.1		
NRDL	e P	Z 07:27:33.3	52.4	118.9	1.2	22	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	14:49: 5.3	1.400N	97.151E	43.0G	5.0	4.9		NEIC

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:01:34.6	84.6	94.4	0.8	5	4.8		
GEC2	e P	Z 15:01:35.5	84.6	94.0	1.3	14	5.0		
FBE	e P	Z 15:01:37.5	85.0	93.9	0.8	5	4.8		
WET	e P	Z 15:01:38.4	85.2	93.4	0.9	6	4.8		

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MANZ	e P	Z	15:01:41.1	85.7	92.9	0.9	6	4.7
MOX	e P	Z	15:01:41.7	86.1	92.6	2.0	46	5.3
GRA1	e P	Z	15:01:44.6	86.3	92.2	1.8	47	5.3
	e S	T	15:12:20.6					
	e SS	T	15:18:01.2					
	e L	Z	15:46:49.5			21.2	473	4.9
BSEG	e P	Z	15:01:47.7	87.0	91.7	1.2	21	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	16:25:29.5	49.418S	115.203W	33.0G		5.5		SZGRF
Southern East Pacific Rise								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
STU	e PKPbc	Z 16:44:59.3	144.4	247.3					
TNS	e PKPbc	Z 16:44:59.9	144.5	248.9					
IBBN	e PKPbc	Z 16:45:00.8	144.8	251.3					
FUR	e PKPbc	Z 16:45:02.8	145.5	247.3					
UBBA	e PKPbc	Z 16:45:03.8	145.7	250.4					
GRA1	e PKPbc	Z 16:45:05.4	146.0	249.4					
	e PP	Z 16:48:32.3							
	e SS	T 17:07:26.3							
	e L	Z 17:42:30.6			21.1	868		5.5	
CLZ	e PKPbc	Z 16:45:05.9	146.2	252.0					
NRDL	e PKPbc	Z 16:45:06.0	146.2	252.8					
MOX	e PKPbc	Z 16:45:07.1	146.6	250.9					
	e	16:45:18.0							
ROTZ	e PKPbc	Z 16:45:07.1	146.6	249.9					
	e	16:45:18.0							
MANZ	e PKPbc	Z 16:45:06.8	146.6	250.2					
BSEG	e PKPbc	Z 16:45:07.1	146.8	255.0					
WET	e PKPbc	Z 16:45:07.7	146.8	249.3					
GUNZ	e PKPbc	Z 16:45:07.7	146.9	250.8					
	e	16:45:19.5							
WERN	e PKPbc	Z 16:45:07.7	146.9	250.7					
WERD	e PKPbc	Z 16:45:07.5	146.9	250.9					
TANN	e PKPbc	Z 16:45:07.9	147.0	251.0					
GEC2	e PKPbc	Z 16:45:07.9	147.2	249.2					
CLL	e PKPbc	Z 16:45:09.4	147.6	252.5					
FBE	e PKPbc	Z 16:45:09.8	147.7	252.1					
BRG	e PKPbc	Z 16:45:10.6	148.0	252.3					
	e	16:45:22.1							
RUE	e PKPbc	Z 16:45:13.8	148.4	254.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/06	21:39:37.5	24.009S	179.360W	33.0G				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	21:59:23.0	149.2	17.5					
RUE	e PKPbc	Z	21:59:24.4	149.8	24.4					
NRDL	e PKPbc	Z	21:59:26.4	150.6	17.8					
CLL	e PKPbc	Z	21:59:27.3	151.1	23.9					
CLZ	e PKPbc	Z	21:59:27.9	151.2	18.7					
BRG	e PKPbc	Z	21:59:27.8	151.2	25.9					
FBE	e PKPbc	Z	21:59:28.0	151.4	24.8					
MOX	e PKPbc	Z	21:59:29.5	152.0	21.8					
TANN	e PKPbc	Z	21:59:29.6	152.0	23.5					
WERD	e PKPbc	Z	21:59:29.5	152.1	23.2					
GUNZ	e PKPbc	Z	21:59:29.9	152.1	23.3					
WERN	e PKPbc	Z	21:59:30.5	152.2	23.5					
MANZ	e PKPbc	Z	21:59:30.8	152.5	23.2					
ROTZ	e PKPbc	Z	21:59:30.9	152.7	23.5					
GRA1	e PKPbc	Z	21:59:31.4	153.0	21.7					
TNS	e PKPbc	Z	21:59:31.9	153.1	15.9					
GEC2	e PKPbc	Z	21:59:31.7	153.1	27.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/07	02:23: 8.0	6.669N	60.869E	33.0N	4.4			SZGRF

Carlsberg Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:33:09.6	59.7	118.8	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/07	03:21: 9.6	5.930N	60.320E	33.0N	4.7			SZGRF

Carlsberg Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:31:13.3	60.0	119.8	1.4	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/07	08:20:45.8	24.200S	68.920W	33.0N				SZGRF

Chile-Argentina border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e SKSac	R	08:44:57.6	99.2	243.2					
	e SP	Z	08:47:17.7							
BFO	e SKSac	R	08:45:02.0	99.9	244.6					

	e	SP	Z	08:47:25.8					
STU	e	SP	Z	08:47:33.1	100.6	245.3			
BUG	e	SKSac	R	08:45:06.0	100.7	244.3			
	e	SP	Z	08:47:34.0					
TNS	e	SKSac	R	08:45:09.2	100.8	245.0			
	e	SP	Z	08:47:36.0					
IBBN	e	SP	Z	08:47:40.6	101.3	244.8			
FUR	e	SP	Z	08:47:43.5	101.6	246.6			
UBBA	e	SKSac	R	08:45:13.7	101.9	246.2			
	e	SP	Z	08:47:48.2					
HLG	e	SP	Z	08:47:49.1	102.2	245.3			
GRFO	e	SKSac	R	08:45:14.5	102.2	246.8			
	e	SP	Z	08:47:51.1					
GRA1	e	SP	Z	08:47:51.0	102.2	246.8			
CLZ	e	SP	Z	08:47:55.3	102.6	246.7			
NRDL	e	SKSac	R	08:45:17.1	102.7	246.6			
	e	SP	Z	08:47:55.2					
MOX	e	SKSac	R	08:45:18.1	102.8	247.3			
	e	SP	Z	08:47:57.7					
ROTZ	e	SKSac	R	08:45:16.7	102.8	247.6			
	e	SP	Z	08:47:57.8					
MANZ	e	SKSac	R	08:45:15.6	102.9	247.5			
	e	SP	Z	08:47:58.2					
WET	e	SKSac	R	08:45:17.1	103.0	247.9			
	e	SP	Z	08:47:58.7					
TANN	e	SKSac	R	08:45:16.4	103.2	247.9			
	e	SP	Z	08:48:02.3					
BSEG	e	SP	Z	08:48:01.8	103.4	247.1			
GEC2	e	SKSac	R	08:45:17.3	103.4	248.4			
	e	SP	Z	08:48:01.8					
CLL	e	SKSac	R	08:45:22.5	103.9	248.5			
	e	SP	Z	08:48:09.0					
BRG	e	SKSac	R	08:45:23.8	104.3	249.0			
	e	SP	Z	08:48:13.1					
RUE	e	SP	Z	08:48:17.3	104.7	249.3			
RGN	e	SP	Z	08:48:21.4	105.2	249.5			

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/07 17:16:57.1 18.079S 167.752E 10.0G
 Vanuatu Islands NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	PKPbc	Z	17:36:30.2	142.8	43.4			
GRA1	e	PKPbc	Z	17:36:31.2	143.2	39.2			
STU	e	PKPbc	Z	17:36:33.3	144.7	37.0			
WLF	e	PKPbc	Z	17:36:35.4	145.1	31.7			
BFO	e	PKPbc	Z	17:36:35.1	145.4	36.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/08											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GEC2	e Pn	Z 02:18:01.5								
		e Sn	N 02:19:14.0								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/08	02:48:36.3	47.465N	121.036W	33.0N	4.7			SZGRF			
Washington, United States											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GRA1	e P	Z 03:00:11.8	74.5	328.7	1.0	7	4.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/08											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GEC2	e Pn	Z 04:24:03.1								
		e Sn	N 04:25:15.2								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/08											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	GEC2	e Pn	Z 09:02:01.7								
		e Sn	N 09:03:14.8								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/08	10:06:33.1	13.170N	59.720W	33.0N	5.1			SZGRF			
Windward Islands											
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
	TNS	e P	Z 10:17:17.3	66.0	261.7	1.0	16	5.2			
	STU	e P	Z 10:17:18.3	66.3	262.9	1.0	18	5.2			
	NRDL	e P	Z 10:17:25.6	67.3	262.0	0.9	10	5.1			
	CLZ	e P	Z 10:17:25.9	67.4	262.5	1.2	12	5.0			
	BSEG	e P	Z 10:17:27.5	67.7	261.6	1.0	16	5.2			

GRA1	e P	Z	10:17:28.0	67.7	264.1	1.1	18	5.2
MOX	e P	Z	10:17:29.6	68.1	264.0	1.1	10	4.9
MANZ	e P	Z	10:17:32.1	68.3	264.7	1.1	17	5.2
ROTZ	e P	Z	10:17:31.8	68.3	264.8	1.1	6	4.8
WERD	e P	Z	10:17:32.5	68.5	264.7	0.8	4	4.7
WERN	e P	Z	10:17:33.2	68.5	264.8	1.3	15	5.1
WET	e P	Z	10:17:34.1	68.7	265.6	1.1	14	5.1
CLL	e P	Z	10:17:35.8	69.0	264.9	1.0	17	5.2
FBE	e P	Z	10:17:37.1	69.2	265.3	1.2	13	5.0
GEC2	e P	Z	10:17:37.5	69.2	266.4	0.9	14	5.2
BRG	e P	Z	10:17:39.4	69.5	265.8	2.7	123	5.6

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/08 13:50:21.3 23.518S 174.353W 22.0 5.9
 Tonga Islands region SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:10:07.7	149.4	8.4					
	e pPKPbc	Z	14:10:14.1							
RUE	e PKPbc	Z	14:10:09.9	150.4	15.2					
	e pPKPbc	Z	14:10:16.6							
NRDL	e PKPbc	Z	14:10:11.1	150.8	8.4					
	e pPKPbc	Z	14:10:17.6							
IBBN	e PKPbc	Z	14:10:12.1	151.2	4.0					
	e pPKPbc	Z	14:10:18.5							
CLZ	e PKPbc	Z	14:10:12.8	151.4	9.1					
	e pPKPbc	Z	14:10:19.1							
CLL	e PKPbc	Z	14:10:13.1	151.6	14.3	2.3	118			
	e PKPbc	Z	14:10:19.6			1.1	156			
	e pPKPbc	Z	14:10:33.5							
	e PP	Z	14:13:54.2							
	e (SKSP)	N	14:24:15.3							
	e SS	Z	14:33:18.1							
	e SS	E	14:33:23.5							
	e SSS	N	14:39:22.1							
	e LR	Z	15:02:03.6							
	e L	Z	15:23:19.3			20.0	1546		5.8	
BRG	e PKPbc	Z	14:10:13.4	151.9	16.3					
	e pPKPbc	Z	14:10:19.9							
FBE	e PKPbc	Z	14:10:13.8	152.0	15.2					
	e pPKPbc	Z	14:10:20.3							
BUG	e PKPbc	Z	14:10:13.8	152.0	3.2					
	e pPKPbc	Z	14:10:20.0							
MOX	e PKPbc	Z	14:10:14.8	152.5	11.9					
	e pPKPbc	Z	14:10:20.7							
UBBA	e PKPbc	Z	14:10:14.6	152.5	8.7					
	e pPKPbc	Z	14:10:20.7							

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WERD	e PKPbc	Z	14:10:15.1	152.6	13.3						
	e pPKPbc	Z	14:10:21.2								
TANN	e PKPbc	Z	14:10:15.2	152.6	13.7						
	e pPKPbc	Z	14:10:21.3								
GUNZ	e PKPbc	Z	14:10:15.5	152.7	13.4						
	e pPKPbc	Z	14:10:21.8								
WERN	e PKPbc	Z	14:10:15.3	152.7	13.6						
	e pPKPbc	Z	14:10:21.7								
MANZ	e PKPbc	Z	14:10:15.6	153.1	13.2						
	e pPKPbc	Z	14:10:22.7								
TNS	e PKPbc	Z	14:10:16.5	153.2	5.7						
	e pPKPbc	Z	14:10:23.2								
ROTZ	e PKPbc	Z	14:10:16.7	153.3	13.5						
	e pPKPbc	Z	14:10:22.9								
GRA1	e PKPbc	Z	14:10:16.6	153.5	11.5						
	e pPKPbc	Z	14:10:23.4								
	e		14:10:37.3								
	e SS	E	14:33:42.0								
	e L	Z	15:29:27.7			18.1	1862		5.9		
WET	e PKPbc	Z	14:10:16.0	153.7	15.1						
	e pPKPbc	Z	14:10:24.1								
WLF	e PKPbc	Z	14:10:17.2	153.9	1.1						
	e pPKPbc	Z	14:10:25.0								
GEC2	e PKPbc	Z	14:10:17.7	153.9	17.0						
	e pPKPbc	Z	14:10:24.2								
STU	e PKPbc	Z	14:10:17.5	154.6	7.6						
	e pPKPbc	Z	14:10:25.9								
FUR	e PKPbc	Z	14:10:17.5	155.0	12.3						
BFO	e PKPbc	Z	14:10:17.2	155.1	5.8						

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/08 14:10:11.9 23.214S 174.152W 19.2 mb MS ML SZGRF
 Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:29:59.2	149.1	8.0					
	e pPKPbc	Z	14:30:04.9							
RUE	e PKPbc	Z	14:30:01.4	150.1	14.7					
	e pPKPbc	Z	14:30:07.1							
NRDL	e PKPbc	Z	14:30:02.6	150.5	8.0					
	e pPKPbc	Z	14:30:08.2							
IBBN	e PKPbc	Z	14:30:03.6	150.9	3.6					
	e pPKPbc	Z	14:30:09.3							
CLZ	e PKPbc	Z	14:30:04.3	151.2	8.6					
	e pPKPbc	Z	14:30:10.0							
CLL	e PKPbc	Z	14:30:04.3	151.4	13.8					
	e pPKPbc	Z	14:30:09.9							

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BRG	e	PKPbc	Z	14:30:05.0	151.6	15.8
	e	pPKPbc	Z	14:30:10.7		
FBE	e	PKPbc	Z	14:30:05.3	151.7	14.7
	e	pPKPbc	Z	14:30:11.1		
BUG	e	PKPbc	Z	14:30:05.4	151.8	2.8
	e	pPKPbc	Z	14:30:11.0		
MOX	e	PKPbc	Z	14:30:06.3	152.2	11.4
	e	pPKPbc	Z	14:30:12.0		
UBBA	e	PKPbc	Z	14:30:06.1	152.2	8.2
	e	pPKPbc	Z	14:30:11.8		
WERD	e	PKPbc	Z	14:30:06.6	152.3	12.9
	e	pPKPbc	Z	14:30:12.3		
TANN	e	PKPbc	Z	14:30:06.7	152.3	13.2
	e	pPKPbc	Z	14:30:12.4		
GUNZ	e	PKPbc	Z	14:30:07.0	152.4	12.9
	e	pPKPbc	Z	14:30:12.7		
WERN	e	PKPbc	Z	14:30:07.2	152.5	13.1
	e	pPKPbc	Z	14:30:12.9		
MANZ	e	PKPbc	Z	14:30:07.9	152.8	12.7
	e	pPKPbc	Z	14:30:13.6		
TNS	e	PKPbc	Z	14:30:08.0	152.9	5.3
	e	pPKPbc	Z	14:30:13.7		
ROTZ	e	PKPbc	Z	14:30:08.2	153.0	12.9
	e	pPKPbc	Z	14:30:13.9		
GRA1	e	PKPbc	Z	14:30:08.1	153.2	11.0
	e	pPKPbc	Z	14:30:14.4		
WET	e	PKPbc	Z	14:30:08.4	153.5	14.6
	e	pPKPbc	Z	14:30:14.9		
WLF	e	pPKPbc	Z	14:30:15.7	153.5	0.6
GEC2	e	PKPbc	Z	14:30:09.3	153.6	16.4
	e	pPKPbc	Z	14:30:14.9		
STU	e	pPKPbc	Z	14:30:16.7	154.3	7.1
BFO	e	pPKPbc	Z	14:30:17.7	154.8	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/08	14:46:59.3	22.940S	174.000W	33.0N				SZGRF
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z	15:06:43.1	148.8	7.7				
RUE	e	PKPbc	Z	15:06:45.9	149.9	14.4				
NRDL	e	PKPbc	Z	15:06:47.2	150.3	7.6				
IBBN	e	PKPbc	Z	15:06:47.9	150.6	3.3				
CLZ	e	PKPbc	Z	15:06:48.3	150.9	8.3				
CLL	e	PKPbc	Z	15:06:48.9	151.1	13.4				
BRG	e	PKPbc	Z	15:06:49.4	151.4	15.4				
FBE	e	PKPbc	Z	15:06:49.8	151.4	14.3				

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UBBA	e	PKPbc	Z	15:06:51.4	151.9	7.9
MOX	e	PKPbc	Z	15:06:50.9	152.0	11.0
WERD	e	PKPbc	Z	15:06:50.9	152.1	12.5
GUNZ	e	PKPbc	Z	15:06:51.9	152.1	12.5
WERN	e	PKPbc	Z	15:06:52.0	152.2	12.7
MANZ	e	PKPbc	Z	15:06:52.0	152.5	12.3
TNS	e	PKPbc	Z	15:06:52.7	152.7	4.9
GRA1	e	PKPbc	Z	15:06:53.5	152.9	10.6
WET	e	PKPbc	Z	15:06:54.4	153.2	14.2
WLF	e	PKPbc	Z	15:06:53.8	153.3	0.3
GEC2	e	PKPbc	Z	15:06:54.3	153.4	16.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/08	14:50:18.0	22.726S	175.079W	33.0N				SZGRF
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	PKPbc	Z 15:10:04.4	149.5	16.2					
NRDL	e	PKPbc	Z 15:10:05.3	150.0	9.6					
CLZ	e	PKPbc	Z 15:10:07.1	150.6	10.3					
CLL	e	PKPbc	Z 15:10:07.2	150.7	15.4					
BRG	e	PKPbc	Z 15:10:07.7	151.0	17.4					
FBE	e	PKPbc	Z 15:10:08.2	151.1	16.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/08	18:54:59.0	23.200S	175.299W	33.0N		5.0		SZGRF
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 19:14:45.0	149.0	10.1					
RUE	e	PKPbc	Z 19:14:47.2	149.9	16.8					
NRDL	e	PKPbc	Z 19:14:48.2	150.4	10.1					
IBBN	e	PKPbc	Z 19:14:49.5	150.8	5.8					
CLZ	e	PKPbc	Z 19:14:50.1	151.0	10.8					
CLL	e	PKPbc	Z 19:14:50.1	151.2	16.0					
BRG	e	PKPbc	Z 19:14:50.8	151.4	18.0					
FBE	e	PKPbc	Z 19:14:51.2	151.5	16.8					
BUG	e	PKPbc	Z 19:14:51.2	151.7	5.0					
MOX	e	PKPbc	Z 19:14:52.1	152.0	13.6					
WERD	e	PKPbc	Z 19:14:52.4	152.1	15.1					
TANN	e	PKPbc	Z 19:14:52.5	152.1	15.4					
GUNZ	e	PKPbc	Z 19:14:52.8	152.2	15.2					
WERN	e	PKPbc	Z 19:14:53.0	152.3	15.3					
MANZ	e	PKPbc	Z 19:14:53.7	152.6	14.9					
ROTZ	e	PKPbc	Z 19:14:54.1	152.8	15.2					

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GRA1	e PKPbc	Z	19:14:53.3	153.0	13.3							
	e L	Z	20:20:45.6			21.7		272		5.0		
GRFO	e PKPbc	Z	19:14:53.3	153.0	13.3							
GEC2	e PKPbc	Z	19:14:55.1	153.4	18.7							
WLF	e PKPbc	Z	19:14:56.6	153.5	3.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 00:29:53.9							
CLL	e PKP	Z 00:29:52.9							
CLZ	e PKP	Z 00:29:53.2							
NRDL	e PKP	Z 00:29:51.5							
TNS	e PKP	Z 00:29:51.7							
WET	e PKP	Z 00:29:48.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:06:13.0							
GUNZ	e P	Z 05:06:30.3							
TANN	e P	Z 05:06:30.0							
WET	e P	Z 05:06:19.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	07:43:50.6	30.064N	57.206E	33.0N	4.3			SZGRF
Northern and central Iran								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:51:18.8	39.6	102.2	0.9	6	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	10:01:48.9	20.740N	120.670E	33.0N	6.4	6.2		SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 10:14:10.7	82.7	64.1	1.2	524	6.6		
RUE	e P	Z 10:14:14.0	83.4	64.3	1.4	815	6.8		
	e S	T 10:24:31.1							

BRG	e P	Z	10:14:17.0	84.0	64.2	1.4	373	6.4	
	e PP	Z	10:17:42.6						
	e S	T	10:24:38.6						
FBE	e P	Z	10:14:18.7	84.3	63.8	1.4	761	6.7	
CLL	e P	Z	10:14:18.5	84.3	63.6	1.0	343	6.5	
	e PP	Z	10:17:36.1						
	e S	E	10:24:43.9						
	e SP	Z	10:25:30.7						
	e SS	N	10:30:16.4						
	e PKKPbc	Z	10:32:31.7						
	e SSS	N	10:33:48.9						
	e SSSS	E	10:36:28.4						
	e L	Z	10:55:41.1			18.0	12434		6.3
BSEG	e P	Z	10:14:20.1	84.6	61.7	1.2	391	6.5	
	e PP	Z	10:17:37.2						
GEC2	e P	Z	10:14:22.2	85.0	63.9	0.9	114	6.1	
	e PP	Z	10:17:38.6						
	e S	T	10:24:47.0						
TANN	e P	Z	10:14:22.3	85.0	63.1	1.0	125	6.1	
	e PP	Z	10:17:41.3						
	e S	T	10:24:48.5						
WERD	e P	Z	10:14:22.6	85.1	63.0	0.9	134	6.2	
GUNZ	e P	Z	10:14:22.9	85.1	63.0	0.9	268	6.5	
WERN	e P	Z	10:14:22.9	85.1	63.0	0.9	201	6.3	
NRDL	e P	Z	10:14:24.4	85.4	61.5	1.5	493	6.4	
	e PP	Z	10:17:46.6						
WET	e P	Z	10:14:24.2	85.4	63.3	1.6	396	6.3	
	e PP	Z	10:17:43.9						
MOX	e P	Z	10:14:24.1	85.4	62.5	1.6	391	6.3	
	e S	T	10:24:52.9						
MANZ	e P	Z	10:14:24.6	85.4	62.8	1.4	288	6.2	
	e PP	Z	10:17:43.9						
ROTZ	e P	Z	10:14:24.9	85.5	62.9	1.5	493	6.4	
	e S	T	10:24:55.2						
CLZ	e P	Z	10:14:25.2	85.5	61.6	1.5	513	6.4	
	e PP	Z	10:17:47.6						
	e S	T	10:24:55.5						
GTTG	e P	Z	10:14:26.7	85.9	61.3	0.9	150	6.1	
	e S	T	10:24:57.1						
GRA1	e P	Z	10:14:27.9	86.1	62.1	2.0	921	6.6	
	e PP	Z	10:17:49.1						
	e S	T	10:24:59.7						
	e S	E	10:25:01.3						
	e L	Z	10:57:49.9			21.7	10895		6.2
UBBA	e P	Z	10:14:28.2	86.2	61.3	1.7	439	6.3	
IBBN	e P	Z	10:14:30.7	86.7	59.6	1.1	327	6.4	
	e S	T	10:25:03.8						
FUR	e P	Z	10:14:31.2	86.7	62.1	1.5	633	6.5	
	e S	T	10:25:07.7						

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TNS	e P	Z	10:14:34.0	87.4	60.1	1.4	150	6.1
	e S	T	10:25:11.4					
BUG	e P	Z	10:14:33.9	87.4	59.2	1.4	249	6.3
	e PP	Z	10:17:57.4	87.7	60.6			
STU	e S	T	10:25:15.2					
	e P	Z	10:14:38.4	88.4	59.9	1.7	183	6.0
BFO	e PP	Z	10:18:06.2					
	e S	T	10:25:21.3					
WLF	e P	Z	10:14:41.6	88.9	58.3	1.0	236	6.4
	e PP	Z	10:18:09.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	10:28:37.9	20.846N	120.185E	33.0N	5.0			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:41:13.9	85.7	62.4	1.1	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	10:57:1.9	19.340N	120.500E	33.0N	5.1			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 11:09:35.1	85.0	65.2	1.2	16	5.1		
FBE	e P	Z 11:09:36.8	85.3	64.8	1.4	44	5.5		
CLL	e P	Z 11:09:36.5	85.3	64.5	1.4	33	5.3		
GEC2	e P	Z 11:09:40.3	86.0	64.9	1.5	25	5.1		
TANN	e P	Z 11:09:40.0	86.0	64.1	1.4	14	4.9		
WERD	e P	Z 11:09:40.4	86.1	64.0	1.0	11	4.9		
GUNZ	e P	Z 11:09:41.1	86.1	64.0	0.8	12	5.1		
WERN	e P	Z 11:09:41.0	86.1	64.0	1.4	24	5.2		
WET	e P	Z 11:09:42.0	86.4	64.3					
NRDL	e P	Z 11:09:42.5	86.4	62.4	1.5	36	5.3		
MOX	e P	Z 11:09:42.2	86.4	63.4	1.0	10	4.9		
MANZ	e P	Z 11:09:43.0	86.4	63.8					
ROTZ	e P	Z 11:09:43.0	86.5	63.8	1.5	33	5.2		
CLZ	e P	Z 11:09:43.3	86.6	62.6	0.9	14	5.1		
GRA1	e P	Z 11:09:45.9	87.1	63.1	0.6	5	4.8		
UBBA	e P	Z 11:09:46.5	87.3	62.2					
BFO	e P	Z 11:09:55.9	89.4	60.9	1.7	20	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/10/09 11:00:22.9 20.352N 121.296E 33.0N 5.0 SZGRF
Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:13:03.9	86.7	61.9	1.1	14	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	11:02:24.2	23.860N	118.520E	33.0N	5.1			SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 11:14:34.1	80.3	63.9					
FBE	e P	Z 11:14:35.7	80.6	63.5	1.2	33	5.2		
CLL	e P	Z 11:14:35.6	80.6	63.3	1.2	24	5.1		
GEC2	e P	Z 11:14:39.3	81.3	63.4	1.2	11	4.9		
TANN	e P	Z 11:14:39.5	81.3	62.7	1.4	16	5.0		
WERD	e P	Z 11:14:39.7	81.4	62.6	1.6	28	5.1		
GUNZ	e P	Z 11:14:40.0	81.4	62.6	1.1	16	5.0		
WERN	e P	Z 11:14:40.0	81.4	62.7	0.9	10	4.9		
NRDL	e P	Z 11:14:41.4	81.7	61.3	1.5	30	5.2		
WET	e P	Z 11:14:41.7	81.7	62.9					
MOX	e P	Z 11:14:41.1	81.7	62.2	1.6	34	5.2		
MANZ	e P	Z 11:14:41.7	81.7	62.4	1.5	22	5.1		
CLZ	e P	Z 11:14:42.4	81.8	61.4	1.3	29	5.3		
GTTG	e P	Z 11:14:43.9	82.2	61.1					
GRA1	e P	Z 11:14:45.0	82.4	61.8	1.2	15	5.1		
UBBA	e P	Z 11:14:45.7	82.5	61.0					
BUG	e P	Z 11:14:51.8	83.7	59.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	11:04:24.7	19.783N	120.858E	33.0N	5.3			SZGRF

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:17:06.7	86.9	62.6	1.3	31	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	11:08:29.9	20.500N	120.500E	33.0N	6.1			SZGRF

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 11:20:51.4	82.8	64.4	1.1	209	6.3		
RUE	e P	Z 11:20:54.8	83.5	64.5	1.1	331	6.5		

BRG	e P	Z	11:20:57.7	84.1	64.5	1.1	157	6.2
	e S	T	11:31:22.6					
FBE	e P	Z	11:20:59.4	84.4	64.1	1.1	324	6.5
CLL	e P	Z	11:20:59.0	84.4	63.8	0.9	190	6.3
	e S	T	11:31:22.6					
BSEG	e P	Z	11:21:00.8	84.7	62.0	1.0	225	6.4
GEC2	e P	Z	11:21:02.8	85.1	64.2	1.0	114	6.1
	e S	T	11:31:35.3					
TANN	e P	Z	11:21:03.0	85.1	63.4	1.0	91	5.9
	e S	T	11:31:32.4					
WERD	e P	Z	11:21:03.2	85.2	63.3	0.9	83	6.0
GUNZ	e P	Z	11:21:03.5	85.2	63.3	0.9	156	6.3
WERN	e P	Z	11:21:03.6	85.2	63.3	0.9	136	6.2
WET	e P	Z	11:21:04.9	85.4	63.6	1.3	111	5.8
	e S	T	11:31:37.0					
NRDL	e P	Z	11:21:05.1	85.5	61.7	1.0	147	6.1
MOX	e P	Z	11:21:04.8	85.5	62.7	1.5	180	6.0
MANZ	e P	Z	11:21:05.3	85.5	63.1	1.2	110	5.9
	e S	T	11:31:37.6					
ROTZ	e P	Z	11:21:05.6	85.6	63.1	1.0	160	6.1
	e S	T	11:31:36.2					
CLZ	e P	Z	11:21:05.9	85.6	61.9	1.2	241	6.2
	e S	R	11:31:41.9					
GTTG	e P	Z	11:21:07.3	86.0	61.6	0.9	126	6.0
GRA1	e P	Z	11:21:08.5	86.2	62.4	1.5	188	6.0
	e PP	Z	11:24:28.5					
	e S	T	11:31:41.0					
UBBA	e P	Z	11:21:08.9	86.3	61.5	1.4	99	5.8
IBBN	e P	Z	11:21:11.4	86.8	59.9	1.1	186	6.1
	e S	T	11:31:46.2					
FUR	e P	Z	11:21:11.8	86.8	62.3	1.1	194	6.2
TNS	e P	Z	11:21:14.7	87.5	60.3	1.3	45	5.6
	e S	T	11:31:55.2					
BUG	e P	Z	11:21:14.9	87.5	59.5	2.3	272	6.2
	e S	T	11:31:55.8					
STU	e P	Z	11:21:15.8	87.8	60.8	1.0	41	5.7
	e S	T	11:32:00.2					
BFO	e P	Z	11:21:19.0	88.5	60.2	1.0	25	5.4
	e S	T	11:32:07.4					
WLF	e P	Z	11:21:22.2	89.0	58.6	0.9	148	6.2
	e S	T	11:32:21.4					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/09 11:29:45.9 19.602N 121.349E 33.0N 5.3 SZGRF
 Philippine Islands region

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

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GRA1 e P Z 11:42:29.9 87.4 62.3 1.1 17 5.3

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/09 11:43:29.4 19.399N 122.543E 33.0N 5.4
Philippine Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 11:56:17.5 88.2 61.5 2.0 38 5.4

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/09 11:44: 7.6 19.235N 121.336E 24.4 5.6
Philippine Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 11:56:53.0 87.6 62.5 1.9 63 5.6
e pP Z 11:57:00.1

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/09 14:12:17.5 19.318N 122.094E 33.0N 5.0
Philippine Islands region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 14:25:04.7 88.0 61.9 1.1 8 5.0

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/09 18:19:34.4 51.280S 28.790E 33.0N 5.3
South of Africa

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
FUR e PP Z 18:37:22.5 100.6 169.0
e PS R 18:46:33.9
e SS R 18:51:44.7
GEC2 e PP Z 18:37:23.4 101.0 170.5
e PS R 18:46:32.2
e SS R 18:51:47.6
BFO e PP Z 18:37:28.0 101.1 167.1
e PS R 18:46:35.2
e SS R 18:51:52.5
WET e PP Z 18:37:28.0 101.3 169.9
e PS R 18:46:36.3
e SS R 18:51:55.2

STU	e PP	Z	18:37:28.0	101.4	167.6			
	e SS	R	18:51:58.6					
ROTZ	e PP	Z	18:37:33.6	102.0	169.5			
	e PS	R	18:46:43.7					
	e SS	R	18:52:02.9					
GRFO	e PP	Z	18:37:35.5	102.1	168.9			
GRA1	e PP	Z	18:37:34.8	102.1	168.9			
	e PS	R	18:46:46.8					
	e SS	R	18:52:07.1					
	e L	Z	19:22:59.6			20.9	919	5.3
MANZ	e PP	Z	18:37:35.5	102.3	169.4			
	e PS	R	18:46:46.1					
	e SS	R	18:52:08.6					
TANN	e PP	Z	18:37:40.1	102.6	169.6			
	e PS	R	18:46:52.0					
	e SS	R	18:52:16.1					
WLF	e PP	Z	18:37:40.1	102.8	165.7			
	e PS	R	18:46:51.5					
	e SS	R	18:52:16.2					
BRG	e PP	Z	18:37:40.1	102.9	170.5			
	e PS	R	18:46:53.2					
	e SS	R	18:52:21.6					
MOX	e PP	Z	18:37:41.1	103.0	169.1			
	e PS	R	18:46:53.5					
	e SS	R	18:52:20.8					
TNS	e PP	Z	18:37:42.0	103.0	167.1			
	e PS	R	18:46:53.6					
	e SS	R	18:52:21.2					
UBBA	e PS	R	18:46:57.4	103.3	168.1			
	e SS	R	18:52:27.7					
CLL	e PP	Z	18:37:45.7	103.5	169.9			
	e PS	R	18:46:58.7					
	e SS	R	18:52:25.6					
GTTG	e PP	Z	18:37:50.4	104.1	168.0			
	e SS	R	18:52:37.5					
CLZ	e PP	Z	18:37:51.3	104.3	168.2			
	e PS	R	18:47:07.4					
	e SS	R	18:52:41.8					
BUG	e PP	Z	18:37:53.2	104.3	166.3			
	e PS	R	18:47:07.8					
	e SS	R	18:52:40.3					
RUE	e PP	Z	18:37:53.2	104.5	170.4			
	e PS	R	18:47:09.9					
	e SS	R	18:52:44.3					
NRDL	e PP	Z	18:37:56.9	105.0	168.0			
	e PS	R	18:47:14.4					
	e SS	R	18:52:54.4					
IBBN	e PP	Z	18:37:56.9	105.1	166.6			
	e SS	R	18:52:52.1					

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BSEG	e PP	Z	18:38:06.2	106.3	168.1
	e PS	R	18:47:28.8		
	e SS	R	18:53:09.7		
RGN	e PP	Z	18:38:08.1	106.6	170.0
	e PS	R	18:47:31.5		
	e SS	R	18:53:11.8		
HLG	e PP	Z	18:38:11.7	106.9	166.5
	e PS	R	18:47:34.5		
	e SS	R	18:53:16.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/09	19:45:44.6	45.557N	137.123E	33.0N	4.9			SZGRF
Primorye, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 19:57:04.1	71.8	38.1	0.5	4	4.8		
CLL	e P	Z 19:57:04.0	71.8	37.6	0.5	12	5.3		
FBE	e P	Z 19:57:05.3	72.0	37.7	0.5	6	4.9		
CLZ	e P	Z 19:57:07.8	72.4	36.1	0.6	10	5.1		
GTTG	e P	Z 19:57:09.9	72.8	35.7	0.4	6	5.0		
GUNZ	e P	Z 19:57:10.5	72.8	37.0	0.6	6	4.9		
WERN	e P	Z 19:57:10.5	72.9	37.0	0.5	6	5.0		
MOX	e P	Z 19:57:10.5	72.9	36.6	0.7	4	4.6		
ROTZ	e P	Z 19:57:13.8	73.4	36.8	1.0	5	4.5		
GEC2	e P	Z 19:57:14.1	73.5	37.6	1.1	5	4.4		
WET	e P	Z 19:57:14.9	73.6	37.1	1.1	10	4.8		
GRA1	e P	Z 19:57:16.2	73.8	36.2	0.6	13	5.1		
STU	e P	Z 19:57:25.1	75.3	34.8	0.6	14	5.3		
WLF	e P	Z 19:57:26.9	75.7	33.1	1.6	22	5.0		
BFO	e P	Z 19:57:28.5	76.0	34.2	0.7	5	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	00:00:53.3	20.929N	120.323E	27.5	5.0			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 00:13:19.2	83.6	64.4	1.1	12	4.9		
CLL	e P	Z 00:13:21.0	84.0	63.7	1.2	20	5.1		
BSEG	e P	Z 00:13:22.4	84.2	61.9	0.9	14	5.1		
GEC2	e P	Z 00:13:24.4	84.7	64.0	1.2	10	4.9		
TANN	e P	Z 00:13:24.3	84.7	63.2	1.2	9	4.9		
WET	e P	Z 00:13:26.0	85.0	63.4	1.1	6	4.7		
NRDL	e P	Z 00:13:26.6	85.0	61.6	1.0	12	5.1		
MOX	e P	Z 00:13:26.3	85.1	62.6	1.1	9	4.9		
MANZ	e P	Z 00:13:26.6	85.1	62.9	1.4	11	4.9		

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ROTZ	e P	Z	00:13:27.0	85.1	63.0	1.0	13	5.1
CLZ	e P	Z	00:13:27.6	85.2	61.8	1.1	17	5.2
GRA1	e P	Z	00:13:30.2	85.7	62.3	2.0	36	5.3
	e pP	Z	00:13:38.2					
TNS	e P	Z	00:13:36.6	87.0	60.2	1.1	5	4.6
WLF	e P	Z	00:13:44.3	88.6	58.5	1.0	17	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	01:04:30.2	20.810N	119.560E	26.9	4.7			SZGRF

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 01:16:55.5	83.3	65.0	1.1	6	4.8		
CLL	e P	Z 01:16:56.9	83.6	64.4					
BSEG	e P	Z 01:16:58.6	83.9	62.6	1.0	11	4.9		
GEC2	e P	Z 01:17:00.4	84.3	64.6	1.1	6	4.6		
WET	e P	Z 01:17:02.1	84.7	64.1	1.6	7	4.6		
NRDL	e P	Z 01:17:02.5	84.7	62.3	1.0	7	4.7		
MANZ	e P	Z 01:17:03.1	84.7	63.6	1.2	4	4.5		
ROTZ	e P	Z 01:17:03.0	84.8	63.6	1.0	5	4.6		
CLZ	e P	Z 01:17:03.5	84.9	62.4	1.2	10	4.8		
GRA1	e P	Z 01:17:05.6	85.4	62.9	1.1	7	4.9		
	e pP	Z 01:17:13.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	08:02:52.6	56.810S	124.130W	39.9		5.7		SZGRF

Southern East Pacific Rise

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PKPbc	Z 08:22:38.8	150.1	236.9					
	e pPKPbc	Z 08:22:50.1							
BFO	e PKPbc	Z 08:22:39.3	150.6	235.2					
BUG	e PKPbc	Z 08:22:41.8	151.6	239.8					
TNS	e PKPbc	Z 08:22:42.5	151.7	238.1					
UBBA	e PKPbc	Z 08:22:45.4	152.8	239.3					
GRA1	e PKPbc	Z 08:22:45.3	152.9	237.6					
	e PP	Z 08:26:25.5							
	e L	Z 09:39:41.0			21.5	1386		5.7	
CLZ	e PKPbc	Z 08:22:46.7	153.5	241.1					
MOX	e PKPbc	Z 08:22:46.8	153.6	239.2					
	e pPKPbc	Z 08:22:58.7							
GEC2	e PKPbc	Z 08:22:46.8	153.8	236.3					
WERN	e PKPbc	Z 08:22:47.6	153.8	238.7					
GUNZ	e PKPbc	Z 08:22:47.7	153.8	238.8					
WERD	e PKPbc	Z 08:22:47.4	153.9	239.0					

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TANN	e PKPbc	Z	08:22:47.8	153.9	238.9
	e pPKPbc	Z	08:23:00.8		
BSEG	e PKPbc	Z	08:22:48.6	154.4	244.9
CLL	e PKPbc	Z	08:22:49.0	154.7	240.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	15:05:59.0	20.460N	120.590E	30.9	5.2			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 15:18:22.2	82.9	64.4					
RUE	e P	Z 15:18:25.6	83.6	64.5					
BRG	e P	Z 15:18:28.3	84.2	64.5	1.2	28	5.4		
CLL	e P	Z 15:18:29.6	84.5	63.8	1.1	31	5.4		
BSEG	e P	Z 15:18:31.5	84.8	62.0	1.1	35	5.5		
GEC2	e P	Z 15:18:33.5	85.2	64.1	1.2	17	5.1		
TANN	e P	Z 15:18:33.5	85.2	63.3	1.1	14	5.1		
GUNZ	e P	Z 15:18:34.4	85.3	63.2					
WET	e P	Z 15:18:35.5	85.5	63.5	1.0	12	4.9		
NRDL	e P	Z 15:18:35.6	85.5	61.7	1.2	29	5.3		
MOX	e P	Z 15:18:35.3	85.6	62.7	1.3	23	5.1		
MANZ	e P	Z 15:18:35.9	85.6	63.0	1.2	16	5.0		
ROTZ	e P	Z 15:18:36.2	85.6	63.1	1.2	25	5.2		
CLZ	e P	Z 15:18:36.2	85.7	61.8	1.1	36	5.4		
GTTG	e P	Z 15:18:38.3	86.1	61.5					
GRA1	e P	Z 15:18:39.1	86.2	62.4	1.7	56	5.4		
	e pP	Z 15:18:48.2							
UBBA	e P	Z 15:18:39.4	86.4	61.5	1.6	21	5.0		
IBBN	e P	Z 15:18:42.4	86.9	59.9	1.1	36	5.4		
BUG	e P	Z 15:18:45.0	87.6	59.4	1.3	20	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	23:17:14.8	20.374N	120.925E	24.5	5.0			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:29:54.7	86.5	62.2	1.3	16	5.0		
	e pP	Z 23:30:01.9			1.3	16			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	23:17:48.0	20.337N	120.624E	33.0N	5.2			SZGRF
Philippine Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:30:27.3	86.4	62.4	1.3	25	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/10	23:58: 7.3	37.460N	143.480E	36.7	6.1	5.8		SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 00:10:07.3	78.5	38.2	1.2	312	6.2		
	e pP	Z 00:10:18.3							
RUE	e P	Z 00:10:15.0	80.0	38.3	1.4	235	5.9		
BSEG	e P	Z 00:10:15.6	80.1	36.0	1.2	216	5.9		
HLG	e S	T 00:20:28.5	80.7	34.2					
BRG	e P	Z 00:10:21.3	81.2	38.3	1.3	113	5.8		
	e S	T 00:20:30.4							
CLL	e P	Z 00:10:21.1	81.2	37.7	1.3	90	5.7		
	e pP	Z 00:10:31.4							
	e PP	Z 00:13:26.9							
	e PPP	Z 00:15:13.6							
	e PPPP	Z 00:16:35.0							
	e S	E 00:20:31.6							
	e SP	Z 00:21:20.0							
	e SS	N 00:25:47.7							
	e SSS	N 00:29:29.3							
	e L	Z 00:50:01.9			18.0	8146		6.1	
NRDL	e P	Z 00:10:22.1	81.3	35.7	1.5	155	5.9		
FBE	e P	Z 00:10:22.4	81.4	37.9	1.4	270	6.2		
CLZ	e P	Z 00:10:24.6	81.8	35.8	1.3	244	6.2		
TANN	e P	Z 00:10:26.1	82.1	37.2	1.9	161	5.8		
	e S	T 00:20:39.9							
GTTG	e P	Z 00:10:26.3	82.2	35.5	1.2	147	6.1		
	e S	T 00:20:41.5							
WERD	e P	Z 00:10:26.5	82.2	37.1	1.8	167	6.0		
GUNZ	e P	Z 00:10:27.0	82.2	37.1	1.9	255	6.1		
WERN	e P	Z 00:10:27.2	82.3	37.1	2.0	308	6.2		
MOX	e P	Z 00:10:27.0	82.3	36.6	1.6	195	6.1		
	e S	T 00:20:41.5							
IBBN	e P	Z 00:10:27.1	82.3	34.0	1.3	232	6.3		
	e S	T 00:20:40.9							
MANZ	e P	Z 00:10:28.7	82.6	36.9					
	e S	T 00:20:46.7							
UBBA	e P	Z 00:10:28.9	82.7	35.5	1.6	83	5.7		
	e S	T 00:20:46.6							
ROTZ	e P	Z 00:10:30.0	82.8	37.0	1.7	276	6.2		
	e S	T 00:20:46.9							
GEC2	e P	Z 00:10:29.8	82.9	37.9	1.4	97	5.8		
	e S	T 00:20:48.6							

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WET	e P	Z	00:10:30.3	83.0	37.4	1.5	164	6.0		
	e S	T	00:20:50.3							
GRA1	e P	Z	00:10:32.2	83.2	36.3	1.5	426	6.4		
	e pP	Z	00:10:42.6							
	e S	T	00:20:52.7							
	e L	Z	00:53:16.2			18.9	3726		5.8	
BUG	e P	Z	00:10:31.7	83.2	33.6	1.8	219	6.1		
	e S	T	00:20:52.9							
TNS	e P	Z	00:10:34.8	83.8	34.4	1.9	206	6.0		
FUR	e P	Z	00:10:38.0	84.4	36.2	1.1	203	6.3		
	e S	T	00:21:04.0							
STU	e P	Z	00:10:39.4	84.7	34.8					
	e S	T	00:21:04.8							
WLF	e P	Z	00:10:41.8	85.1	32.7	1.6	311	6.3		
BFO	e P	Z	00:10:42.7	85.4	34.2	1.1	218	6.2		
	e pP	Z	00:10:53.6							
	e S	R	00:21:12.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	01:24:24.3	21.163N	120.074E	28.9	5.6	4.9		SZGRF
Taiwan region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	01:36:46.0	82.7	64.5	1.4	109	5.9		
	e pP	Z	01:36:53.8							
BRG	e P	Z	01:36:48.4	83.3	64.4	1.7	80	5.7		
FBE	e P	Z	01:36:50.1	83.6	64.0	1.5	102	5.8		
CLL	e P	Z	01:36:50.1	83.6	63.8	1.6	68	5.6		
BSEG	e P	Z	01:36:51.5	83.9	62.0	1.5	61	5.6		
	e pP	Z	01:36:59.8							
GEC2	e P	Z	01:36:53.6	84.3	64.0	1.7	51	5.5		
TANN	e P	Z	01:36:53.7	84.4	63.3	1.7	55	5.5		
WERD	e P	Z	01:36:54.1	84.4	63.2	1.6	54	5.5		
GUNZ	e P	Z	01:36:54.2	84.4	63.2	1.5	61	5.6		
WERN	e P	Z	01:36:54.3	84.5	63.2	1.5	40	5.4		
	e pP	Z	01:37:02.7							
WET	e P	Z	01:36:55.6	84.7	63.5	1.8	66	5.6		
NRDL	e P	Z	01:36:55.8	84.7	61.7	1.6	92	5.7		
MOX	e P	Z	01:36:55.5	84.7	62.7	1.6	75	5.7		
MANZ	e P	Z	01:36:56.1	84.7	63.0	1.7	60	5.5		
ROTZ	e P	Z	01:36:56.5	84.8	63.0	1.6	64	5.6		
CLZ	e P	Z	01:36:56.7	84.9	61.8	1.5	65	5.6		
GTTG	e P	Z	01:36:58.1	85.2	61.5	1.8	90	5.7		
GRA1	e P	Z	01:36:59.3	85.4	62.3	1.8	89	5.6		
	e pP	Z	01:37:07.7							
	e L	Z	02:17:58.0			18.3	405		4.9	
UBBA	e P	Z	01:37:00.0	85.5	61.5	1.7	59	5.5		

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IBBN	e P	Z	01:37:02.6	86.0	59.9	1.5	78	5.6
FUR	e P	Z	01:37:02.6	86.1	62.2	2.2	190	5.8
	e pP	Z	01:37:10.9					
TNS	e P	Z	01:37:05.6	86.7	60.3	2.1	73	5.4
BUG	e P	Z	01:37:05.3	86.7	59.4	1.9	85	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	01:26:12.7	20.642N	120.538E	42.5	5.3			SZGRF

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:38:38.2	84.0	64.4	1.4	25	5.1		
FBE	e P	Z	01:38:39.9	84.3	64.0	1.4	50	5.3		
	e pP	Z	01:38:52.0							
CLL	e P	Z	01:38:39.6	84.3	63.7	1.5	45	5.2		
BSEG	e P	Z	01:38:41.5	84.6	61.9	1.6	40	5.1		
GEC2	e P	Z	01:38:43.4	85.0	64.0	1.6	32	5.0		
TANN	e P	Z	01:38:43.5	85.0	63.2	1.6	30	5.1		
WERD	e P	Z	01:38:43.5	85.1	63.1	1.6	38	5.2		
GUNZ	e P	Z	01:38:44.2	85.1	63.1	1.5	48	5.3		
WERN	e P	Z	01:38:43.8	85.1	63.2	1.6	35	5.2		
	e pP	Z	01:38:56.3							
WET	e P	Z	01:38:45.5	85.4	63.5	1.8	44	5.2		
NRDL	e P	Z	01:38:45.6	85.4	61.6	1.7	62	5.4		
MOX	e P	Z	01:38:45.3	85.4	62.6	1.6	37	5.2		
MANZ	e P	Z	01:38:45.9	85.4	63.0	1.8	49	5.2		
ROTZ	e P	Z	01:38:46.2	85.5	63.0	1.5	37	5.2		
CLZ	e P	Z	01:38:46.4	85.5	61.8	1.6	76	5.5		
GRA1	e P	Z	01:38:49.1	86.1	62.3	1.6	46	5.4		
	e pP	Z	01:39:01.4							
UBBA	e P	Z	01:38:49.8	86.2	61.4	1.8	48	5.3		
FUR	e P	Z	01:38:52.5	86.7	62.2	1.6	78	5.6		
TNS	e P	Z	01:38:56.0	87.4	60.2	2.2	63	5.5		
WLF	e P	Z	01:39:04.2	88.9	58.5	0.6	12	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	01:39:32.7	22.393N	123.437E	33.0N	4.5			SZGRF

Southeast of Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:52:11.7	86.3	59.1	0.8	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/10/11 01:51:46.4 22.620N 118.440E 33.0N 5.1 SZGRF
Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	02:03:54.2	80.0	64.8					
BRG	e P	Z	02:04:00.4	81.2	64.7	1.4	22	5.0		
FBE	e P	Z	02:04:02.2	81.5	64.3	1.1	26	5.3		
CLL	e P	Z	02:04:01.9	81.6	64.1	1.6	29	5.2		
BSEG	e P	Z	02:04:03.5	81.8	62.4	1.0	12	5.0		
GEC2	e P	Z	02:04:05.6	82.2	64.3	1.5	18	5.0		
TANN	e P	Z	02:04:05.8	82.3	63.6	1.3	9	4.7		
WERD	e P	Z	02:04:06.1	82.3	63.5	1.5	16	5.0		
GUNZ	e P	Z	02:04:06.3	82.4	63.5	1.2	15	5.1		
WERN	e P	Z	02:04:06.2	82.4	63.5	1.2	15	5.1		
WET	e P	Z	02:04:07.7	82.6	63.7	1.7	28	5.2		
NRDL	e P	Z	02:04:07.8	82.6	62.1	1.4	19	5.2		
MOX	e P	Z	02:04:07.5	82.6	63.0	1.6	24	5.2		
MANZ	e P	Z	02:04:08.2	82.7	63.3	1.4	12	5.0		
ROTZ	e P	Z	02:04:08.4	82.7	63.3	1.1	14	5.1		
CLZ	e P	Z	02:04:08.7	82.8	62.2	1.1	13	5.1		
GRA1	e P	Z	02:04:11.4	83.3	62.6	1.3	13	5.0		
FUR	e P	Z	02:04:14.7	84.0	62.5	1.1	24	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/11 05:12:41.3 20.119N 121.071E 33.0N 4.9
Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:25:22.6	86.8	62.2	1.1	11	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/11 06:00:49.7 8.600N 103.200W 10.0N 5.5
Northern East Pacific Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z	06:55:35.5	98.7	294.4	21.0	1700		5.5	

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/11 06:43:59.1 21.130N 119.860E 29.1 5.9 5.5
Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	06:56:21.4	82.6	64.7	1.1	234	6.3		

	e pP	Z	06:56:29.9								
BRG	e P	Z	06:56:23.9	83.2	64.6	1.1	118	6.0			
FBE	e P	Z	06:56:25.7	83.5	64.2	1.0	230	6.4			
	e pP	Z	06:56:34.2								
CLL	e P	Z	06:56:25.6	83.6	63.9	1.1	174	6.2			
BSEG	e P	Z	06:56:27.2	83.8	62.1	0.9	183	6.3			
	e pP	Z	06:56:35.5								
GEC2	e P	Z	06:56:29.4	84.2	64.2	1.0	89	5.9			
TANN	e P	Z	06:56:29.4	84.3	63.5	1.1	71	5.8			
WERD	e P	Z	06:56:29.4	84.3	63.3	0.8	51	5.8			
GUNZ	e P	Z	06:56:29.9	84.4	63.4	1.0	132	6.1			
WERN	e P	Z	06:56:29.7	84.4	63.4	1.0	129	6.1			
	e pP	Z	06:56:38.4								
WET	e P	Z	06:56:31.2	84.6	63.7	1.3	65	5.7			
NRDL	e P	Z	06:56:31.2	84.6	61.9	1.0	126	6.1			
MOX	e P	Z	06:56:31.0	84.6	62.8	1.3	103	5.9			
MANZ	e P	Z	06:56:31.6	84.7	63.2	1.1	74	5.8			
ROTZ	e P	Z	06:56:31.8	84.7	63.2	1.0	135	6.1			
CLZ	e P	Z	06:56:32.1	84.8	62.0	1.1	166	6.2			
GTTG	e P	Z	06:56:33.7	85.1	61.7	1.0	106	6.0			
GRA1	e P	Z	06:56:34.8	85.3	62.5	1.6	151	6.0			
	e L	Z	07:37:47.8			19.5	1810	5.5			
GRFO	e P	Z	06:56:34.8	85.3	62.5	1.6	143	6.0			
UBBA	e P	Z	06:56:35.2	85.5	61.6	1.2	41	5.4			
IBBN	e P	Z	06:56:38.0	85.9	60.0	1.0	125	6.0			
	e pP	Z	06:56:46.4								
TNS	e P	Z	06:56:41.4	86.6	60.4	1.2	38	5.4			
BUG	e P	Z	06:56:41.1	86.6	59.6	1.0	34	5.4			
BFO	e P	Z	06:56:45.5	87.6	60.3	1.1	29	5.5			
WLF	e P	Z	06:56:48.6	88.2	58.7	0.9	149	6.3			

Date 2006/10/11
 Origin Time 07:32:29.0
 Lat 21.950N
 Long 119.760E
 Depth 28.8
 mb 5.2
 Ms
 ML
 Source SZGRF
 Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:44:50.6	82.5	64.2	1.3	22	5.0		
FBE	e P	Z 07:44:52.2	82.8	63.7	1.1	38	5.4		
	e pP	Z 07:45:00.9							
CLL	e P	Z 07:44:51.9	82.8	63.5	1.2	30	5.3		
BSEG	e P	Z 07:44:53.7	83.1	61.8	1.0	29	5.4		
GEC2	e P	Z 07:44:55.6	83.5	63.8	1.2	14	5.0		
TANN	e P	Z 07:44:55.7	83.6	63.0	1.4	22	5.1		
WERD	e P	Z 07:44:56.1	83.6	62.9	1.5	26	5.2		
GUNZ	e P	Z 07:44:56.4	83.6	62.9	1.2	27	5.4		
	e pP	Z 07:45:04.7							
WERN	e P	Z 07:44:56.4	83.7	62.9	1.2	23	5.3		

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WET	e P	Z	07:44:57.7	83.9	63.2	1.5	21	5.1
MOX	e P	Z	07:44:57.6	83.9	62.4	1.1	11	5.0
MANZ	e P	Z	07:44:58.2	83.9	62.7	1.2	12	5.0
ROTZ	e P	Z	07:44:58.3	84.0	62.8	1.1	21	5.3
CLZ	e P	Z	07:44:58.7	84.0	61.6	1.2	30	5.4
	e pP	Z	07:45:06.9					
GTTG	e P	Z	07:45:00.2	84.4	61.3	1.1	23	5.3
GRA1	e P	Z	07:45:01.3	84.6	62.0	1.5	24	5.2
	e pP	Z	07:45:09.7					
UBBA	e P	Z	07:45:01.9	84.7	61.2			
IBBN	e P	Z	07:45:04.2	85.2	59.7	1.8	29	5.2
FUR	e P	Z	07:45:04.5	85.3	62.0			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	17:02:15.2	39.074N	14.823E	10.0G				SZGRF

Tyrrhenian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
KBA	e Pn	Z	17:04:13.7	8.1	171.8					
WTTA	e Pn	Z	17:04:20.8	8.5	163.0					
	e Sn	E	17:05:51.3							
MOA	e Pn	Z	17:04:22.0	8.8	177.2					
DAVA	e Pn	Z	17:04:26.2	9.0	154.6					
FUR	e Pn	Z	17:04:30.8	9.4	163.0					
GEC2	e Pn	Z	17:04:34.1	9.8	174.9					
WET	e Pn	Z	17:04:38.3	10.2	171.4					
BFO	e Pn	Z	17:04:42.4	10.4	150.8					
	e Sn	N	17:06:31.6							
ROTZ	e Pn	Z	17:04:49.3	10.9	169.2					
GRA1	e Pn	Z	17:04:49.1	10.9	165.1					
MANZ	e Pn	Z	17:04:52.4	11.1	169.0					
WERN	e Pn	Z	17:04:53.9	11.3	170.3					
GUNZ	e Pn	Z	17:04:54.9	11.4	170.2					
TANN	e Pn	Z	17:04:58.7	11.5	170.7					
WERD	e Pn	Z	17:04:55.5	11.5	170.2					
MOX	e Pn	Z	17:05:00.6	11.8	167.7					
UBBA	e Pn	Z	17:05:06.1	12.2	162.0					
GTTG	e Pn	Z	17:05:14.0	12.9	162.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	17:00:30.9	12.790N	91.250W	37.4	5.3	4.6		SZGRF

Off coast of central America

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	17:13:03.5	85.0	283.9	1.6	54	5.5		

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BUG	e P	Z	17:13:04.2	85.2	284.6	0.9	16	5.3			
TNS	e P	Z	17:13:09.5	86.3	285.6	1.1	24	5.2			
BSEG	e P	Z	17:13:09.5	86.3	286.8	0.9	22	5.3			
NRDL	e P	Z	17:13:11.7	86.6	286.7	1.2	23	5.2			
BFO	e P	Z	17:13:11.4	86.7	285.6	1.6	18	4.9			
GTTG	e P	Z	17:13:12.3	86.8	286.7	0.6	9	5.1			
MOX	e P	Z	17:13:18.5	88.1	288.0	1.2	12	5.1			
GRA1	e P	Z	17:13:18.1	88.1	287.7	1.8	42	5.5			
	e pP	Z	17:13:28.2								
	e S	N	17:24:00.5								
	e L	Z	17:48:42.9			19.4	238			4.6	
WERD	e P	Z	17:13:21.8	88.6	288.5	2.3	59	5.5			
WERN	e P	Z	17:13:21.7	88.7	288.6	1.9	40	5.4			
TANN	e P	Z	17:13:20.9	88.7	288.6	1.0	10	5.1			
ROTZ	e P	Z	17:13:21.8	88.7	288.4	1.8	27	5.3			
FBE	e P	Z	17:13:23.3	89.0	289.3	2.2	94	5.7			
WET	e P	Z	17:13:25.0	89.3	289.0	1.7	39	5.4			
BRG	e P	Z	17:13:24.1	89.4	289.8	1.2	11	5.0			
GEC2	e P	Z	17:13:26.0	89.9	289.6	1.2	7	4.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	19:15:47.4							

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:20:43.2			0.8	3	3.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	21:19:23.8	22.440S	178.740W	33.0G				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:38:11.7	147.8	15.8					
RUE	e PKPbc	Z 21:38:13.7	148.5	22.5					
NRDL	e PKPbc	Z 21:38:15.1	149.2	16.1					
CLL	e PKPbc	Z 21:38:16.5	149.7	21.9					
	e PKPab	Z 21:38:23.3							
CLZ	e PKPbc	Z 21:38:17.0	149.8	16.9					
BRG	e PKPbc	Z 21:38:17.1	149.9	23.9					
FBE	e PKPbc	Z 21:38:17.4	150.0	22.8					
	e PKPab	Z 21:38:24.9							
GTTG	e PKPbc	Z 21:38:17.7	150.1	16.3					
BUG	e PKPbc	Z 21:38:18.7	150.6	11.4					
MOX	e PKPbc	Z 21:38:18.5	150.7	19.8					
TANN	e PKPbc	Z 21:38:19.0	150.7	21.5					
	e PKPab	Z 21:38:28.6							

WERD	e	PKPbc	Z	21:38:19.0	150.7	21.2
GUNZ	e	PKPbc	Z	21:38:19.3	150.8	21.3
UBBA	e	PKPbc	Z	21:38:18.9	150.8	16.7
WERN	e	PKPbc	Z	21:38:19.5	150.8	21.4
	e	PKPab	Z	21:38:28.5		
MANZ	e	PKPbc	Z	21:38:20.1	151.2	21.1
ROTZ	e	PKPbc	Z	21:38:20.6	151.3	21.5
GRA1	e	PKPbc	Z	21:38:21.0	151.6	19.7
	e	PKPab	Z	21:38:31.9		
TNS	e	PKPbc	Z	21:38:21.2	151.7	14.1
WET	e	PKPbc	Z	21:38:21.5	151.8	23.2
	e	PKPab	Z	21:38:32.6		
GEC2	e	PKPbc	Z	21:38:21.1	151.8	24.9
FUR	e	PKPab	Z	21:38:37.9	153.1	20.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/11	22:59:12.7	23.320N	120.780E	27.2	4.6			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:11:40.6	84.1	60.5	1.2	5	4.6		
	e pP	Z 23:11:48.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12	00:48: 5.7	23.674N	142.246E	34.4	4.8			SZGRF

Volcano Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:01:24.1	94.7	43.9	1.4	6	4.8		
	e pP	Z 01:01:34.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:46:32.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12	05:30:30.2	3.920N	95.490E	33.0N	5.6			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:42:45.3	81.6	94.1	1.0	37	5.5		
GEC2	e P	Z	05:42:45.7	81.6	93.6	0.9	98	5.9		
RUE	e P	Z	05:42:46.4	81.8	94.2	0.9	110	6.0		
FBE	e P	Z	05:42:47.4	82.0	93.6	0.9	63	5.7		
WET	e P	Z	05:42:48.5	82.2	93.0	0.9	48	5.6		
CLL	e P	Z	05:42:48.1	82.2	93.4	1.1	40	5.4		
TANN	e P	Z	05:42:50.1	82.5	92.9	1.0	17	5.2		
WERN	e P	Z	05:42:50.5	82.6	92.8	0.9	25	5.4		
GUNZ	e P	Z	05:42:50.6	82.6	92.8	1.0	30	5.5		
WERD	e P	Z	05:42:50.5	82.6	92.8	1.0	30	5.5		
ROTZ	e P	Z	05:42:51.3	82.7	92.6	0.9	45	5.7		
MANZ	e P	Z	05:42:51.8	82.7	92.5	1.0	61	5.8		
MOX	e P	Z	05:42:52.8	83.1	92.2	0.8	22	5.4		
FUR	e P	Z	05:42:53.3	83.2	91.7	0.7	44	5.8		
GRA1	e P	Z	05:42:54.5	83.3	91.8	0.9	62	5.8		
CLZ	e P	Z	05:42:57.1	83.9	91.4	0.9	54	5.8		
BSEG	e P	Z	05:42:57.7	84.0	91.6	1.0	82	5.9		
NRDL	e P	Z	05:42:58.3	84.1	91.3	1.4	75	5.7		
UBBA	e P	Z	05:42:57.8	84.1	91.0					
GTTG	e P	Z	05:42:58.2	84.1	91.1	0.7	24	5.6		
STU	e P	Z	05:43:00.6	84.6	90.2	0.7	35	5.7		
TNS	e P	Z	05:43:03.4	85.1	89.8	1.0	50	5.7		
BFO	e P	Z	05:43:03.3	85.2	89.5	0.8	40	5.7		
IBBN	e P	Z	05:43:05.4	85.5	89.4	0.8	64	5.8		
BUG	e P	Z	05:43:07.0	85.8	88.9	1.0	65	5.7		
WLF	e P	Z	05:43:11.1	86.6	88.0	1.0	25	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/12 05:30:39.3 21.710S 175.900W 39.5 SZGRF
 Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e pPKPbc	Z	05:50:31.8	147.4	10.8					
NRDL	e PKPbc	Z	05:50:23.5	148.9	10.8					
	e pPKPbc	Z	05:50:35.5							
CLZ	e PKPbc	Z	05:50:25.1	149.5	11.5					
	e pPKPbc	Z	05:50:36.9							
CLL	e PKPbc	Z	05:50:25.2	149.6	16.5					
	e pPKPbc	Z	05:50:37.2							
GTTG	e pPKPbc	Z	05:50:37.8	149.8	10.9					
BRG	e PKPbc	Z	05:50:25.8	149.8	18.4					
	e pPKPbc	Z	05:50:38.0							
FBE	e PKPbc	Z	05:50:26.6	149.9	17.3					
	e pPKPbc	Z	05:50:38.3							
MOX	e PKPbc	Z	05:50:27.3	150.5	14.3					
WERD	e PKPbc	Z	05:50:27.8	150.5	15.6					

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TANN	e	PKPbc	Z	05:50:28.0	150.6	16.0
	e	pPKPbc	Z	05:50:39.6		
GUNZ	e	PKPbc	Z	05:50:28.1	150.6	15.7
MANZ	e	pPKPbc	Z	05:50:40.4	151.0	15.5
GRA1	e	pPKPbc	Z	05:50:41.1	151.5	13.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKP	Z	06:11:19.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12	13:31: 5.0	34.492N	26.364E	33.0G	4.3	3.7		SZGRF
Crete, Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e	P	Z	13:35:00.4	17.1	142.2	0.9	16	4.1
WET	e	P	Z	13:35:08.5	17.7	140.8	0.9	12	4.0
ROTZ	e	P	Z	13:35:16.3	18.5	140.5	0.9	6	3.8
MANZ	e	P	Z	13:35:18.7	18.7	140.7	0.8	6	3.9
BRG	e	P	Z	13:35:19.4	18.7	146.4	0.8	14	4.2
WERN	e	P	Z	13:35:19.9	18.8	141.8	1.0	16	4.2
GRA1	e	P	Z	13:35:20.7	18.8	138.1	0.9	40	4.7
	e	L	Z	13:43:02.7			20.6	365	3.7
TANN	e	P	Z	13:35:21.0	18.9	142.2	0.9	30	4.5
GUNZ	e	P	Z	13:35:21.2	18.9	141.9	0.9	24	4.4
FBE	e	P	Z	13:35:22.7	18.9	145.1	1.0	29	4.4
WERD	e	P	Z	13:35:23.2	19.0	142.0	1.0	23	4.4
BFO	e	P	Z	13:35:26.1	19.3	129.3	1.0	22	4.3
MOX	e	P	Z	13:35:28.4	19.4	140.8	0.9	15	4.2
CLL	e	P	Z	13:35:27.1	19.4	145.0	0.7	18	4.4
TNS	e	P	Z	13:35:39.0	20.5	133.5			
GTTG	e	P	Z	13:35:41.3	20.7	138.9			
CLZ	e	P	Z	13:35:41.7	20.8	140.3			
NRDL	e	P	Z	13:35:49.8	21.4	140.8	1.4	25	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12	14:46:30.9	24.219N	122.703E	33.0G	5.9	5.9		SZGRF
Taiwan region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e	P	Z	14:58:45.8	81.7	60.7	0.9	47	5.5

BRG	e P	Z	14:58:49.4	82.3	60.6	1.7	90	5.6
CLL	e P	Z	14:58:50.5	82.6	60.0	1.3	58	5.6
FBE	e P	Z	14:58:51.0	82.6	60.2	1.5	128	5.8
BSEG	e P	Z	14:58:51.4	82.7	58.2	1.6	139	5.8
TANN	e P	Z	14:58:54.8	83.4	59.5	1.9	96	5.7
WERD	e P	Z	14:58:55.1	83.5	59.4	1.8	90	5.7
GEC2	e P	Z	14:58:55.2	83.5	60.2	1.6	98	5.8
GUNZ	e P	Z	14:58:55.4	83.5	59.4	1.8	129	5.9
WERN	e P	Z	14:58:55.4	83.5	59.4	1.9	107	5.8
NRDL	e P	Z	14:58:55.9	83.6	57.9	1.8	201	6.0
MOX	e P	Z	14:58:56.5	83.7	58.9	2.0	156	5.9
CLZ	e P	Z	14:58:57.2	83.8	58.1	2.3	359	6.2
WET	e P	Z	14:58:57.2	83.8	59.7	2.0	170	5.9
MANZ	e P	Z	14:58:57.3	83.8	59.2	2.2	156	5.9
ROTZ	e P	Z	14:58:57.7	83.9	59.2	1.9	189	6.0
GTTG	e P	Z	14:58:58.8	84.1	57.7	1.6	150	6.0
GRA1	e P	Z	14:59:00.6	84.4	58.5	2.0	338	6.2
	e PP	Z	15:02:13.7					
	e L	Z	15:41:20.6			18.4	4847	5.9
UBBA	e P	Z	14:59:00.5	84.5	57.7	2.0	214	6.0
IBBN	e P	Z	14:59:02.7	84.9	56.1	1.5	191	6.1
FUR	e P	Z	14:59:04.6	85.2	58.4	1.1	116	6.0
BUG	e P	Z	14:59:05.9	85.6	55.7	1.8	271	6.2
TNS	e P	Z	14:59:06.5	85.7	56.5	1.9	174	6.0
STU	e P	Z	14:59:08.2	86.1	57.0	2.0	156	5.9
BFO	e P	Z	14:59:11.4	86.8	56.3	1.7	160	5.9
WLF	e P	Z	14:59:14.0	87.2	54.8	2.0	434	6.2

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/12 16:27:32.5 50.070N 174.080W 33.0N 5.3 4.8 ML SZGRF
 Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	16:39:18.4	75.9	2.9	1.0	22	5.3		
RUE	e P	Z	16:39:25.8	77.2	5.2	1.1	54	5.6		
NRDL	e P	Z	16:39:26.2	77.4	2.8	1.0	19	5.2		
IBBN	e P	Z	16:39:27.8	77.6	1.2	1.1	61	5.6		
CLZ	e P	Z	16:39:30.3	78.0	2.9	1.0	53	5.6		
GTTG	e P	Z	16:39:31.8	78.3	2.6	1.1	63	5.6		
CLL	e P	Z	16:39:31.9	78.4	4.6	0.8	25	5.3		
BUG	e P	Z	16:39:32.3	78.5	0.9	1.5	58	5.4		
FBE	e P	Z	16:39:34.4	78.8	4.9	1.0	52	5.5		
BRG	e P	Z	16:39:34.2	78.8	5.2	0.9	36	5.4		
	e		16:39:48.6							
UBBA	e P	Z	16:39:35.3	79.1	2.7	2.3	95	5.4		
MOX	e P	Z	16:39:36.4	79.2	3.7	0.9	27	5.2		
WERD	e P	Z	16:39:37.0	79.3	4.2	1.1	21	5.0		

TANN	e P	Z	16:39:37.3	79.4	4.3	1.1	17	4.9	
GUNZ	e P	Z	16:39:37.6	79.4	4.2	1.1	24	5.0	
WERN	e P	Z	16:39:38.1	79.5	4.2	1.1	46	5.3	
TNS	e P	Z	16:39:38.8	79.7	1.6	1.0	44	5.3	
MANZ	e P	Z	16:39:39.6	79.8	4.0	1.2	18	4.9	
ROTZ	e P	Z	16:39:41.0	80.0	4.1	1.0	17	4.9	
GRA1	e P	Z	16:39:42.0	80.1	3.5	1.0	59	5.6	
	e L	Z	17:29:22.9			20.0	447		4.8
WLF	e P	Z	16:39:42.3	80.3	0.2	1.0	42	5.4	
WET	e P	Z	16:39:44.1	80.6	4.5	1.1	13	4.9	
GEC2	e P	Z	16:39:45.2	80.9	5.0	1.0	17	5.0	
STU	e P	Z	16:39:46.8	81.1	2.1	1.0	42	5.5	
BFO	e P	Z	16:39:49.2	81.6	1.6	1.6	58	5.5	

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/12 17:08:32.4 40.340N 53.210E 47.2 5.4
 Turkmenistan SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	17:14:28.8	29.0	95.8	1.0	79	5.5		
GEC2	e P	Z	17:14:28.5	29.0	92.0	1.5	62	5.2		
	e pP	Z	17:14:40.5							
RUE	e P	Z	17:14:30.7	29.3	98.5	1.1	103	5.6		
FBE	e P	Z	17:14:32.3	29.4	95.4	1.5	91	5.4		
WET	e P	Z	17:14:32.8	29.6	91.9	2.1	46	4.9		
CLL	e P	Z	17:14:33.7	29.6	95.8	1.0	38	5.2		
TANN	e P	Z	17:14:36.7	29.9	93.7	1.0	38	5.3		
	e pP	Z	17:14:48.1							
RGN	e P	Z	17:14:36.6	29.9	101.7	0.8	204	6.1		
WERN	e P	Z	17:14:37.1	30.0	93.4	1.6	85	5.4		
GUNZ	e P	Z	17:14:37.4	30.0	93.5	0.9	35	5.3		
WERD	e P	Z	17:14:37.4	30.0	93.7	1.0	47	5.4		
	e pP	Z	17:14:49.4							
ROTZ	e P	Z	17:14:37.7	30.0	92.4	1.0	18	4.9		
MANZ	e P	Z	17:14:39.5	30.1	92.7	1.1	30	5.1		
	e pP	Z	17:14:51.0							
MOX	e P	Z	17:14:41.7	30.5	93.4	1.0	102	5.7		
FUR	e P	Z	17:14:42.7	30.6	89.0	0.9	56	5.5		
GRA1	e P	Z	17:14:43.7	30.7	91.5	0.9	29	5.2		
	e S	T	17:20:11.0							
CLZ	e P	Z	17:14:49.0	31.3	94.4	0.8	40	5.4		
UBBA	e P	Z	17:14:50.7	31.5	92.4	1.4	36	5.1		
NRDL	e P	Z	17:14:50.7	31.5	95.2	1.7	44	5.1		
GTTG	e P	Z	17:14:51.0	31.5	93.5	1.1	70	5.5		
BSEG	e P	Z	17:14:51.3	31.6	97.7	1.2	205	5.9		
STU	e P	Z	17:14:54.7	32.0	88.4	1.0	205	6.0		
	e pP	Z	17:15:06.6							

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TNS	e P	Z	17:14:59.5	32.5	90.2	0.9	44	5.4
BFO	e P	Z	17:14:59.4	32.6	87.1	1.9	98	5.4
	e pP	Z	17:15:11.0					
IBBN	e P	Z	17:15:03.2	32.9	92.9	1.1	124	5.7
HLG	e P	Z	17:15:03.5	33.0	95.9	0.7	86	5.8
BUG	e P	Z	17:15:06.0	33.2	91.1	0.8	26	5.2
	e pP	Z	17:15:19.2					
WLF	e P	Z	17:15:12.6	33.9	87.6	1.0	89	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/12	18:05:54.6	32.250S	71.500W	33.0N		6.2		SZGRF
Near coast of central Chile								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e PP	Z	18:24:27.8	106.8	239.7					
	e SKSac	R	18:31:00.2							
	e SS	R	18:39:57.2							
BFO	e Pdiff	Z	18:20:13.0	107.4	240.7					
	e PP	Z	18:24:32.2							
	e SKSac	R	18:31:04.0							
STU	e SS	T	18:39:51.3							
	e Pdiff	Z	18:20:15.7	108.1	241.4					
	e PP	Z	18:24:39.3							
BUG	e SKSac	R	18:31:09.0							
	e SS	T	18:39:59.5							
	e Pdiff	Z	18:20:17.0	108.3	240.9					
TNS	e SKSac	R	18:31:06.6							
	e SP	Z	18:34:11.2							
	e SS	T	18:40:04.1							
IBBN	e Pdiff	Z	18:20:18.3	108.4	241.4					
	e PP	Z	18:24:40.8							
	e SKSac	R	18:31:11.8							
FUR	e SS	T	18:40:04.7							
	e PP	Z	18:24:43.9	109.0	241.5					
	e SKSac	R	18:31:10.1							
UBBA	e SS	T	18:40:14.5							
	e Pdiff	Z	18:20:22.2	109.1	242.6					
	e PP	Z	18:24:44.1							
GRA1	e Pdiff	Z	18:20:24.9	109.6	242.6					
	e PP	Z	18:24:48.1							
	e SKSac	R	18:31:16.0							
GRA1	e SS	T	18:40:18.4							
	e Pdiff	Z	18:20:24.9	109.7	243.0					
	e PKiKP	Z	18:24:22.7							
	e PP	Z	18:24:50.2							
	e SKSac	R	18:31:18.8							
	e Sdiff	T	18:32:30.3							

	e PS	R	18:34:13.7				
	e SS	T	18:40:21.6				
	e L	Z	19:12:53.1			19.1	5896
	e L	Z	19:12:53.1				6.2
GTTG	e Pdiff	Z	18:20:28.8	109.9	242.8		
	e PP	Z	18:24:51.5				
	e SKSac	R	18:31:15.4				
	e SP	Z	18:34:26.0				
HLG	e SKSac	R	18:31:16.3	110.0	242.2		
	e SP	Z	18:34:25.2				
CLZ	e Pdiff	Z	18:20:24.9	110.2	243.2		
	e PP	Z	18:24:55.2				
	e SKSac	R	18:31:18.2				
	e SP	Z	18:34:28.1				
	e SS	T	18:40:30.2				
ROTZ	e Pdiff	Z	18:20:30.1	110.3	243.7		
	e PP	Z	18:24:55.6				
	e SKSac	R	18:31:19.6				
	e SP	Z	18:34:28.7				
	e SS	T	18:40:31.7				
MANZ	e Pdiff	Z	18:20:27.5	110.4	243.7		
	e PP	Z	18:24:55.9				
	e SKSac	R	18:31:18.1				
	e SS	T	18:40:33.0				
NRDL	e PP	Z	18:24:52.7	110.4	243.2		
	e SKSac	R	18:31:19.9				
	e SP	Z	18:34:29.1				
MOX	e Pdiff	Z	18:20:24.9	110.4	243.6		
	e PP	Z	18:24:55.9				
	e SKSac	R	18:31:18.8				
	e SP	Z	18:34:27.2				
	e SS	T	18:40:34.3				
WET	e Pdiff	Z	18:20:27.5	110.5	243.9		
	e PP	Z	18:24:56.9				
	e SKSac	R	18:31:18.3				
TANN	e PP	Z	18:24:58.4	110.8	244.1		
	e SKSac	R	18:31:21.8				
	e SS	T	18:40:36.8				
GEC2	e Pdiff	Z	18:20:31.5	110.8	244.4		
	e PP	Z	18:24:57.8				
	e SKSac	R	18:31:19.0				
	e SP	Z	18:34:33.7				
	e SS	T	18:40:35.0				
BSEG	e PP	Z	18:25:00.6	111.1	243.8		
	e SKSac	R	18:31:21.6				
CLL	e Pdiff	Z	18:20:25.6	111.5	244.8		
	e PKiKP	Z	18:24:25.7				
	e PP	Z	18:25:03.3				
	e PPP	Z	18:27:23.5				
	e SKSac	E	18:31:12.5				

	e Sdiff	N	18:32:59.2						
	e PS	E	18:34:38.6						
	e PPS	Z	18:35:40.2						
	e SS	N	18:40:43.3						
	e SSS	N	18:44:40.1						
	e L	Z	19:08:31.2			20.0	15006		6.6
BRG	e Pdiff	Z	18:20:32.8	111.8	245.2				
	e PP	Z	18:25:06.0						
	e SKSac	R	18:31:24.7						
	e SP	Z	18:34:43.5						
	e SS	T	18:40:49.7						
RUE	e Pdiff	Z	18:20:36.7	112.4	245.7				
	e PP	Z	18:25:10.2						
	e SKSac	R	18:31:23.7						
	e SP	Z	18:34:48.1						
RGN	e PP	Z	18:25:14.3	113.0	246.2				
	e SP	Z	18:34:55.5						

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/12 21:16:50.5 42.430N 45.510E 179.7 4.5
 Eastern Caucasus SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 21:21:39.1	23.0	94.2	0.5	11	4.6		
BRG	e P	Z 21:21:39.4	23.0	99.1	1.0	10	4.3		
	e pP	Z 21:22:12.8							
FBE	e P	Z 21:21:43.7	23.4	98.7	0.8	17	4.6		
	e pP	Z 21:22:16.8							
WET	e P	Z 21:21:44.3	23.5	94.1	0.8	4	4.0		
	e pP	Z 21:22:17.8							
CLL	e P	Z 21:21:46.5	23.7	99.2	0.9	14	4.5		
	e pP	Z 21:22:18.9							
TANN	e P	Z 21:21:47.8	23.9	96.6	1.0	16	4.5		
WERN	e P	Z 21:21:49.2	23.9	96.3	0.9	24	4.7		
GUNZ	e P	Z 21:21:48.6	24.0	96.4	0.9	10	4.4		
	e pP	Z 21:22:23.3							
ROTZ	e P	Z 21:21:49.1	24.0	95.0	1.1	7	4.1		
WERD	e P	Z 21:21:48.3	24.0	96.6	0.8	13	4.5		
MANZ	e P	Z 21:21:50.8	24.1	95.4	0.9	8	4.3		
MOX	e P	Z 21:21:53.2	24.5	96.4	0.9	16	4.8		
FUR	e P	Z 21:21:55.0	24.5	90.6	1.4	40	5.0		
GRA1	e P	Z 21:21:56.2	24.6	93.9	0.6	11	4.8		
CLZ	e P	Z 21:22:02.5	25.4	97.7	1.2	13	4.5		
GTTG	e P	Z 21:22:05.4	25.6	96.7	1.0	13	4.5		
BFO	e pP	Z 21:22:46.6	26.5	88.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	00:07:22.9	56.000S	121.500W	10.0				NEIC

Southern East Pacific Rise

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 00:26:59.5	151.4	239.0					
	e PKPbc	Z 00:27:13.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	00:41:41.5	42.580N	81.162E	17.6	4.8			SZGRF

Northern Xinjiang, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:50:13.5	47.2	70.5	0.9	7	4.8		
	e pP	Z 00:50:18.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	01:18:49.7	37.151N	143.373E	34.7	5.0	4.6		SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:31:13.9	83.4	36.5	1.2	12	5.0		
	e pP	Z 01:31:24.0							
	e L	Z 02:13:55.0			18.4	236		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	01:51:30.1	22.723N	121.762E	33.0N	5.0			SZGRF

Taiwan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:04:03.1	85.1	60.1	1.2	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	05:14:37.1			N	4.6			SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:26:14.9			0.9	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	05:21:10.8	48.050N	152.190E	33.0N	5.1	4.5		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:32:40.3	73.0	25.6	1.0	23	5.3		
NRDL	e P	Z	05:32:47.9	74.4	25.2	0.9	16	5.1		
CLL	e P	Z	05:32:49.0	74.7	26.9	0.9	40	5.5		
BRG	e P	Z	05:32:49.8	74.8	27.5	1.0	9	4.8		
CLZ	e P	Z	05:32:51.3	74.9	25.3	0.9	32	5.3		
FBE	e P	Z	05:32:50.8	74.9	27.1	0.9	22	5.2		
GTTG	e P	Z	05:32:53.1	75.3	25.0	1.4	35	5.3		
TANN	e P	Z	05:32:55.0	75.6	26.5	1.0	5	4.6		
WERD	e P	Z	05:32:55.1	75.6	26.4	1.0	11	4.9		
MOX	e P	Z	05:32:55.1	75.7	26.0	1.0	19	5.2		
GUNZ	e P	Z	05:32:55.6	75.7	26.4	0.9	14	5.1		
WERN	e P	Z	05:32:55.9	75.8	26.4	1.0	18	5.2		
UBBA	e P	Z	05:32:56.6	75.9	25.0	1.0	9	4.9		
BUG	e P	Z	05:32:57.4	76.1	23.3	1.1	32	5.4		
MANZ	e P	Z	05:32:57.9	76.1	26.2	1.1	13	5.0		
ROTZ	e P	Z	05:32:59.1	76.3	26.3	1.0	16	5.1		
GRA1	e P	Z	05:33:01.1	76.6	25.6	0.9	35	5.5		
	e L	Z	06:10:16.0			18.6	209		4.5	
WET	e P	Z	05:33:01.1	76.6	26.6	1.0	20	5.2		
GEC2	e P	Z	05:33:00.7	76.7	27.1	0.8	7	4.8		
TNS	e P	Z	05:33:02.2	76.9	23.9	0.9	22	5.3		
BFO	e P	Z	05:33:11.7	78.7	23.7	1.1	30	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/13	13:47:40.0	45.280N	151.920E	33.0N	5.5	6.2		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e S	R	14:08:50.3	74.2	28.9					
BSEG	e P	Z	13:59:23.1	75.5	26.8	1.7	58	5.4		
	e S	R	14:09:05.2							
RUE	e P	Z	13:59:24.9	75.9	29.0	1.1	73	5.7		
HLG	e S	R	14:09:12.2	75.9	25.2					
NRDL	e P	Z	13:59:30.7	76.9	26.5	1.8	59	5.4		
CLL	e P	Z	13:59:31.8	77.1	28.3	1.1	53	5.6		
BRG	e P	Z	13:59:32.6	77.2	28.9	1.5	47	5.4		
FBE	e P	Z	13:59:33.6	77.3	28.5	1.1	46	5.5		
CLZ	e P	Z	13:59:34.1	77.4	26.6	1.3	71	5.6		
	e S	R	14:09:24.5							
IBBN	e P	Z	13:59:35.1	77.7	24.9	0.7	32	5.6		
GTTG	e P	Z	13:59:35.9	77.8	26.3	1.2	40	5.4		

TANN	e P	Z	13:59:37.8	78.1	27.9	1.6	55	5.4
	e S	R	14:09:31.6					
WERD	e P	Z	13:59:37.8	78.1	27.8	1.3	30	5.3
MOX	e P	Z	13:59:37.9	78.1	27.3	1.3	39	5.4
GUNZ	e P	Z	13:59:38.3	78.1	27.8			
WERN	e P	Z	13:59:38.6	78.2	27.8	1.0	30	5.3
UBBA	e P	Z	13:59:39.4	78.4	26.3	2.6	240	5.8
MANZ	e P	Z	13:59:40.6	78.5	27.6	1.4	39	5.2
	e S	R	14:09:36.9					
BUG	e P	Z	13:59:40.2	78.6	24.5	0.9	45	5.5
ROTZ	e P	Z	13:59:41.8	78.7	27.6	1.3	40	5.3
WET	e P	Z	13:59:43.9	79.1	28.0	1.0	35	5.3
GEC2	e P	Z	13:59:43.5	79.1	28.5	1.8	43	5.2
GRA1	e P	Z	13:59:43.8	79.1	27.0	0.9	65	5.7
	e S	R	14:09:42.1					
	e L	Z	14:37:17.2			18.5	9366	6.2
TNS	e P	Z	13:59:45.0	79.4	25.2	1.0	46	5.4
	e S	R	14:09:46.9					
FUR	e P	Z	13:59:51.1	80.4	26.9	1.2	80	5.6
STU	e P	Z	13:59:51.1	80.5	25.6	1.0	47	5.5
WLF	e P	Z	13:59:51.8	80.5	23.7	2.0	168	5.7
BFO	e P	Z	13:59:54.5	81.1	25.0	1.2	53	5.4

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/13 13:51:37.3 46.819N 154.952E 33.0N 5.0
 East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:03:35.7	78.5	24.4	1.0	17	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/13 14:45:53.2 22.800S 176.900W 120.0
 South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:05:46.0	152.4	16.3					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/13 21:38: 1.4 35.845N 141.732E 33.0N 5.0
 Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:50:28.5	83.9	38.3	0.9	10	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/14											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e PKP	Z 05:41:59.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/14	17:55:16.2	7.600N	78.100W	13.0	4.3			NEIC			
Panama											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e P	Z 18:07:48.2	83.8	274.4	1.0	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/15	01:35: 3.3	34.781N	34.377E	10.0G	4.7			SZGRF			
Cyprus region											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GEC2	e P	Z 01:39:44.1	20.7	125.0	1.4	55	4.7		
		WET	e P	Z 01:39:49.7	21.4	124.2	0.9	35	4.7		
		BRG	e P	Z 01:39:55.5	21.8	129.6	1.1	33	4.7		
		ROTZ	e P	Z 01:39:57.4	22.1	124.4	1.8	90	4.9		
		TANN	e P	Z 01:40:00.4	22.3	126.1	1.2	22	4.5		
		WERD	e P	Z 01:40:01.0	22.4	125.9	1.2	16	4.3		
		GRA1	e P	Z 01:40:04.1	22.6	122.6					
		MOX	e P	Z 01:40:06.4	22.9	125.2	1.5	56	4.9		
		BFO	e P	Z 01:40:13.0	23.6	115.5	0.9	52	5.1		
		CLZ	e P	Z 01:40:18.8	24.2	125.4	0.8	21	4.7		
		WLF	e P	Z 01:40:30.4	25.4	115.2	0.9	26	5.0		
		BSEG	e P	Z 01:40:31.1	25.5	128.9	1.0	8	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2006/10/15											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e PKP	Z 01:50:27.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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Thu Apr 23 08:38:25 2020

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2006/10/15 03:20:43.1
Fiji Islands region

21.630S 178.190W 33.0N

SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	03:40:22.5	147.1	14.6					
NRDL	e PKPbc	Z	03:40:26.3	148.5	14.9					
CLZ	e PKPbc	Z	03:40:27.9	149.1	15.6					
CLL	e PKPbc	Z	03:40:27.5	149.1	20.6					
	e PKPab	Z	03:40:32.5							
BRG	e PKPbc	Z	03:40:28.6	149.3	22.5					
BUG	e PKPbc	Z	03:40:29.6	149.9	10.2					
MOX	e PKPbc	Z	03:40:30.4	150.0	18.4					
TANN	e PKPbc	Z	03:40:30.3	150.0	20.1					
	e PKPab	Z	03:40:36.2							
UBBA	e PKPbc	Z	03:40:30.1	150.1	15.4					
ROTZ	e PKPbc	Z	03:40:32.4	150.7	20.0					
TNS	e PKPbc	Z	03:40:32.6	150.9	12.8					
	e PKPab	Z	03:40:39.9							
GRA1	e PKPbc	Z	03:40:32.8	151.0	18.3					
GEC2	e PKPbc	Z	03:40:33.1	151.2	23.4					
WLF	e PKPbc	Z	03:40:34.9	151.8	8.6					
STU	e PKPbc	Z	03:40:35.8	152.2	14.9					
FUR	e PKPbc	Z	03:40:35.9	152.4	19.3					
	e PKPab	Z	03:40:45.3							

Date Origin Time
2006/10/15 04:41:54.4
South of Fiji Islands

Lat Long Depth
22.500S 178.640W 33.0N

mb Ms ML Source
SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	05:01:35.9	147.8	15.7					
IBBN	e PKPbc	Z	05:01:40.9	149.8	11.8					
CLL	e PKPbc	Z	05:01:40.7	149.8	21.8					
	e PKPab	Z	05:01:46.2							
MOX	e PKPbc	Z	05:01:43.6	150.7	19.7					
TANN	e PKPbc	Z	05:01:43.4	150.8	21.4					
	e PKPab	Z	05:01:50.7							
UBBA	e PKPbc	Z	05:01:43.6	150.9	16.6					
GRA1	e PKPbc	Z	05:01:46.3	151.7	19.5					
	e PKPab	Z	05:01:54.7							
TNS	e PKPbc	Z	05:01:45.7	151.7	13.9					
GEC2	e PKPbc	Z	05:01:46.1	151.9	24.8					
STU	e PKPbc	Z	05:01:48.5	153.0	16.1					
	e PKPab	Z	05:01:59.7							
BFO	e PKPbc	Z	05:01:50.2	153.6	14.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/15								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:03:57.5			1.1	9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/15	15:39:17.5	22.160S	170.850E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 15:58:49.8	145.0	32.5					
BRG	e PKPbc	Z 15:58:53.7	146.1	40.7					
CLL	e PKPbc	Z 15:58:53.5	146.2	38.8					
NRDL	e PKPbc	Z 15:58:54.1	146.3	33.4					
CLZ	e PKPbc	Z 15:58:55.6	146.7	34.3					
TANN	e PKPbc	Z 15:58:56.6	147.1	38.9					
IBBN	e PKPbc	Z 15:58:56.6	147.2	29.8					
MANZ	e PKPbc	Z 15:58:58.1	147.5	38.7					
ROTZ	e PKPbc	Z 15:58:58.6	147.7	39.1					
GEC2	e PKPbc	Z 15:58:58.5	147.7	42.4					
WET	e PKPbc	Z 15:58:58.9	147.9	40.8					
BUG	e PKPbc	Z 15:59:00.2	148.1	29.7					
GRA1	e PKPbc	Z 15:59:00.1	148.1	37.6					
TNS	e PKPbc	Z 15:59:01.0	148.7	32.6					
STU	e PKPbc	Z 15:59:03.3	149.7	35.2					
WLF	e PKPbc	Z 15:59:04.6	150.0	29.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/15	17:07:48.4	19.800N	156.100W	24.0		6.6		NEIC
Hawaiian Islands, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e Pdiff	Z 17:21:55.6	105.3	346.8					
	e PP	Z 17:26:15.9							
	e SKSac	R 17:32:34.1							
	e SP	Z 17:35:19.9							
NRDL	e Pdiff	Z 17:22:01.7	106.7	346.5					
	e PP	Z 17:26:24.7							
	e SKSac	R 17:32:40.7							
BUG	e SKSac	R 17:32:47.3	107.3	343.6					
CLZ	e Pdiff	Z 17:22:04.7	107.4	346.7					
	e SKSac	R 17:32:43.9							
	e SP	Z 17:35:48.7							

CLL	e Pdiff	Z	17:22:08.9	108.3	349.2	1.5	43		
	e		17:22:23.6						
	e PP	Z	17:26:46.0						
	e SKSac	N	17:32:49.0						
	e SKKSac	Z	17:33:35.8						
	e Sdiff	E	17:34:11.3						
	e SP	Z	17:36:08.0						
	e PPS	Z	17:37:12.0						
	e PKKPbc	Z	17:37:26.6						
	e PKKPab	Z	17:37:40.2						
	e		17:37:53.4						
	e SS	E	17:41:54.9						
	e PKPPKPdf	Z	17:45:53.7						
	e SSS	E	17:45:59.8						
	e L	Z	18:08:08.2			22.0	28898	6.8	
TNS	e Pdiff	Z	17:22:10.3	108.7	344.7				
	e SKSac	R	17:32:52.9						
MOX	e Pdiff	Z	17:22:10.6	108.7	347.8				
WLF	e PP	Z	17:26:42.4	108.8	342.4				
	e SKSac	R	17:32:54.5						
BRG	e Pdiff	Z	17:22:11.4	108.8	350.1				
	e SKSac	R	17:32:54.0						
	e SP	Z	17:36:04.2						
TANN	e Pdiff	Z	17:22:12.6	109.1	348.6				
	e SKSac	R	17:32:55.1						
MANZ	e Pdiff	Z	17:22:14.0	109.4	348.2				
	e PP	Z	17:26:42.4						
	e SKSac	R	17:32:55.1						
GRA3	e PKPPKP	Z	17:45:45.3	109.5	347.4				
GRA1	e PP	Z	17:26:43.5	109.6	347.3				
	e SKSac	R	17:32:55.2						
	e SP	Z	17:36:11.9						
	e PKKPbc	Z	17:37:22.5						
	e PKKPab	Z	17:37:32.2						
	e L	Z	18:10:47.2			21.8	19008	6.6	
ROTZ	e SKSac	R	17:32:54.6	109.7	348.3				
WET	e Pdiff	Z	17:22:18.3	110.4	348.9				
	e SKSac	R	17:32:56.9						
BFO	e SKSac	R	17:32:56.3	110.5	344.4				
	e SP	Z	17:36:18.5						
GEC2	e PP	Z	17:26:53.5	110.8	349.7				
	e SKSac	R	17:32:59.5						
	e SP	Z	17:36:26.3						
FUR	e PP	Z	17:26:52.4	111.1	347.3				
	e SP	Z	17:36:32.9						

2006/10/15 17:14: 9.6 20.200N 156.300W 10.0
Hawaiian Islands, United States

GSRC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKKPbc	Z	17:43:45.1	109.2	347.6					
	e PKKPab	Z	17:43:57.0							
	e PKPPKP	Z	17:52:09.8							

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/15 22:08:37.4 3.821S 101.976E 100.0 4.6
Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:21:41.2	93.4	91.9	0.9	3	4.6		

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/16 00:35:43.5 50.836S 159.748E 33.0N 5.2
North of Macquarie Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPab	Z	00:56:18.2	160.0	105.4					
	e PP	Z	01:00:01.2							
	e SS	N	01:20:18.0							
	e L	Z	02:15:02.7			21.4	386		5.2	

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/16 21:44: 2.8 19.080S 177.950W 33.0N
Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	22:03:34.1	144.6	13.6					
NRDL	e PKPbc	Z	22:03:38.9	146.0	13.7					
IBBN	e PKPbc	Z	22:03:40.4	146.5	9.8					
CLZ	e PKPbc	Z	22:03:40.9	146.6	14.4					
CLL	e PKPbc	Z	22:03:40.6	146.6	19.1					
BRG	e PKPbc	Z	22:03:41.4	146.8	20.9					
BUG	e PKPbc	Z	22:03:42.8	147.4	9.2					
TANN	e PKPbc	Z	22:03:43.5	147.6	18.6					
UBBA	e PKPbc	Z	22:03:43.2	147.6	14.1					
MANZ	e PKPbc	Z	22:03:45.1	148.1	18.2					
ROTZ	e PKPbc	Z	22:03:45.5	148.3	18.5					
TNS	e PKPbc	Z	22:03:46.0	148.4	11.6					
	e PKPab	Z	22:03:49.4							

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GRA1	e	PKPbc	Z	22:03:46.3	148.5	16.8
	e	PKPab	Z	22:03:50.0		
WET	e	PKPbc	Z	22:03:46.5	148.7	20.0
GEC2	e	PKPbc	Z	22:03:46.6	148.8	21.6
WLF	e	PKPbc	Z	22:03:48.4	149.2	7.6
	e	PKPab	Z	22:03:52.9		
STU	e	PKPbc	Z	22:03:49.2	149.8	13.5
FUR	e	PKPbc	Z	22:03:49.6	150.0	17.6
	e	PKPab	Z	22:03:55.5		
BFO	e	PKPbc	Z	22:03:50.4	150.3	12.0
	e	PKPab	Z	22:03:57.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/16	23:23: 8.5	48.008N	152.602E	33.0N	5.3			SZGRF
Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:34:36.2	73.2	25.3	1.2	25	5.1		
NRDL	e P	Z	23:34:45.2	74.5	25.0					
CLL	e P	Z	23:34:45.1	74.8	26.7	1.3	62	5.5		
BRG	e P	Z	23:34:46.0	75.0	27.2	0.9	14	5.0		
CLZ	e P	Z	23:34:47.3	75.1	25.1	1.3	50	5.4		
TANN	e P	Z	23:34:51.1	75.8	26.3					
MOX	e P	Z	23:34:51.2	75.8	25.7	1.2	24	5.2		
UBBA	e P	Z	23:34:52.7	76.1	24.7					
BUG	e P	Z	23:34:53.3	76.2	23.1					
MANZ	e P	Z	23:34:54.0	76.3	26.0					
ROTZ	e P	Z	23:34:55.2	76.4	26.0					
GRA1	e P	Z	23:34:57.2	76.8	25.4	0.9	42	5.6		
WET	e P	Z	23:34:57.4	76.8	26.4	1.2	34	5.3		
GEC2	e P	Z	23:34:57.0	76.8	26.9	1.3	22	5.1		
TNS	e P	Z	23:34:58.2	77.0	23.7					
FUR	e P	Z	23:35:04.6	78.2	25.3	0.8	37	5.6		
STU	e P	Z	23:35:04.5	78.2	24.0					
BFO	e P	Z	23:35:07.9	78.8	23.5	1.0	24	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	01:25:14.5	5.170S	150.640E	33.0N		7.0		SZGRF
New Britain, Papua New Guinea, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e Pdiff	Z	01:40:33.8	121.6	48.3					
	e PKPdf	Z	01:44:04.5							
	e PP	Z	01:45:37.7							
	e SKPdf	Z	01:47:38.1							

BRG	e Pdiff	Z	01:40:35.1	121.8	53.5		
	e PKPdf	Z	01:44:04.8				
	e PP	Z	01:45:39.6				
	e SKPdf	Z	01:47:38.4				
CLL	e Pdiff	Z	01:40:40.8	122.0	52.3		
	e PKPdf	Z	01:44:04.9			0.9	96
	e pPKPdf	Z	01:44:15.8				
	e PP	Z	01:45:47.7				
	e sPP	Z	01:45:57.3				
	e SKPdf	Z	01:47:38.0				
	e PPP	Z	01:48:26.5				
	e SKSac	E	01:51:03.9				
	e SKKSac	E	01:52:38.6				
	e PKKP	Z	01:53:58.9				
	e PKKPdf	Z	01:54:34.6				
	e PS	E	01:55:41.0				
	e PPS	N	01:57:14.2				
	e PPPr	Z	02:01:21.4				
	e SS	E	02:02:27.0				
	e SSS	N	02:07:14.2				
	e L	Z	02:37:14.5			22.0	40674 7.0
NRDL	e Pdiff	Z	01:40:39.2	122.7	48.8		
	e PKPdf	Z	01:44:06.6				
	e PP	Z	01:45:45.4				
	e SKPdf	Z	01:47:40.2				
TANN	e Pdiff	Z	01:40:40.6	122.8	52.2		
	e PKPdf	Z	01:44:06.8				
	e PP	Z	01:45:46.6				
	e SKPdf	Z	01:47:40.3				
CLZ	e Pdiff	Z	01:40:41.0	123.0	49.4		
	e PKPdf	Z	01:44:07.3				
	e PP	Z	01:45:47.7				
	e SKPdf	Z	01:47:40.9				
MOX	e Pdiff	Z	01:40:41.3	123.1	51.2		
	e PKPdf	Z	01:44:07.2				
	e PP	Z	01:45:48.3				
	e SKPdf	Z	01:47:40.8				
GEC2	e Pdiff	Z	01:40:41.5	123.1	54.3		
	e PKPdf	Z	01:44:07.3				
	e PP	Z	01:45:48.2				
	e SKPdf	Z	01:47:40.8				
MANZ	e Pdiff	Z	01:40:42.8	123.3	52.1		
	e PKPdf	Z	01:44:07.9				
	e PP	Z	01:45:49.7				
	e SKPdf	Z	01:47:41.4				
ROTZ	e Pdiff	Z	01:40:42.9	123.4	52.3		
	e PKPdf	Z	01:44:07.9				
	e PP	Z	01:45:50.3				
	e SKPdf	Z	01:47:41.6				

WET	e Pdiff	Z	01:40:43.3	123.4	53.3				
	e PKPdf	Z	01:44:08.0						
	e PP	Z	01:45:50.3						
	e SKPdf	Z	01:47:41.6						
UBBA	e Pdiff	Z	01:40:44.5	123.8	49.5				
	e PKPdf	Z	01:44:08.8						
	e PP	Z	01:45:52.9						
	e SKPdf	Z	01:47:42.2						
IBBN	e Pdiff	Z	01:40:45.1	123.8	46.4				
	e PKPdf	Z	01:44:08.8						
	e PP	Z	01:45:53.0						
	e SKPdf	Z	01:47:42.4						
GRA1	e Pdiff	Z	01:40:45.3	123.9	51.3				
	e PKPdf	Z	01:44:08.8						
	e PP	Z	01:45:53.9						
	e SKPdf	Z	01:47:42.2						
	e PPP	Z	01:48:36.6						
	e SS	N	02:02:44.2						
	e L	Z	02:38:26.7			21.6	38010	7.0	
BUG	e Pdiff	Z	01:40:48.4	124.7	46.3				
	e PKPdf	Z	01:44:10.3						
	e PP	Z	01:45:58.5						
	e SKPdf	Z	01:47:43.9						
FUR	e Pdiff	Z	01:40:49.6	124.8	52.2				
	e PKPdf	Z	01:44:10.6						
	e PP	Z	01:45:59.6						
	e SKPdf	Z	01:47:44.0						
TNS	e Pdiff	Z	01:40:50.2	124.9	48.1				
	e PKPdf	Z	01:44:10.9						
	e PP	Z	01:46:01.0						
	e SKPdf	Z	01:47:44.6						
STU	e Pdiff	Z	01:40:52.2	125.5	49.7				
	e PKPdf	Z	01:44:11.9						
	e PP	Z	01:46:04.4						
	e SKPdf	Z	01:47:45.4						
BFO	e Pdiff	Z	01:40:56.4	126.2	49.0				
	e PKPdf	Z	01:44:13.4						
	e PP	Z	01:46:09.2						
WLF	e Pdiff	Z	01:40:56.7	126.4	46.0				
	e PKPdf	Z	01:44:14.4						
	e PP	Z	01:46:10.8						
	e SKPdf	Z	01:47:47.4						

Date
2006/10/17

Origin Time

Lat

Long

Depth

mb

Ms

ML

Source

Sta

Phase

Time

Dist

BAz

T[s]

A[nm]

mb

MS

ML

BFO	e	PKPdf	Z	02:18:44.4
FUR	e	PKPdf	Z	02:18:42.6
IBBN	e	PKPdf	Z	02:18:44.6
STU	e	PKPdf	Z	02:18:43.6
TNS	e	PKPdf	Z	02:18:44.4
WLF	e	PKPdf	Z	02:18:44.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	02:35:21.4	18.617S	174.009E	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e	PKPbc	Z 02:54:52.2	144.4	27.3				
IBBN	e	PKPbc	Z 02:54:53.4	144.6	22.9				
UBBA	e	PKPbc	Z 02:54:55.3	145.4	27.4				
GEC2	e	PKPbc	Z 02:54:56.9	145.8	34.7				
GRA1	e	PKPbc	Z 02:54:57.3	146.0	30.1				
TNS	e	PKPbc	Z 02:54:58.4	146.4	25.2				
FUR	e	PKPbc	Z 02:55:01.3	147.3	31.4				
STU	e	PKPbc	Z 02:55:01.6	147.4	27.5				
WLF	e	PKPbc	Z 02:55:02.3	147.5	21.8				
BFO	e	PKPbc	Z 02:55:03.7	148.1	26.3				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKPdf	Z 03:59:33.2						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKPdf	Z 04:39:14.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	04:30:54.6	46.214N	150.197E	33.0N	5.3			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e	P	Z 04:42:35.9	75.5	27.3				

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CLL	e P	Z	04:42:36.6	75.8	29.0	1.0	42	5.5
BRG	e P	Z	04:42:37.3	75.8	29.6	0.9	10	5.0
CLZ	e P	Z	04:42:39.3	76.1	27.4	0.9	20	5.2
TANN	e P	Z	04:42:42.5	76.7	28.6			
MOX	e P	Z	04:42:42.7	76.8	28.1	1.3	23	5.2
UBBA	e P	Z	04:42:44.4	77.1	27.0			
MANZ	e P	Z	04:42:45.3	77.2	28.3			
BUG	e P	Z	04:42:45.6	77.3	25.3			
ROTZ	e P	Z	04:42:46.5	77.3	28.3			
WET	e P	Z	04:42:48.3	77.7	28.7	1.0	32	5.4
GEC2	e P	Z	04:42:47.8	77.7	29.2	0.6	15	5.3
GRA1	e P	Z	04:42:48.5	77.7	27.7	0.8	36	5.5
TNS	e P	Z	04:42:50.1	78.0	26.0			
FUR	e P	Z	04:42:55.5	79.1	27.6	0.9	30	5.3
STU	e P	Z	04:42:55.8	79.1	26.3			
BFO	e P	Z	04:42:59.2	79.8	25.7	1.1	21	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	14:37:48.5	63.846N	150.381W	120.4	5.1			SZGRF
Central Alaska, United States								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:48:29.2	65.5	351.2	1.2	14	5.1		
	e pP	Z 14:48:58.8							
	e sP	Z 14:49:11.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	14:39:19.5	17.676S	176.936W	33.0N				SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 14:58:46.8	143.3	11.6					
NRDL	e PKPbc	Z 14:58:51.6	144.7	11.7					
CLZ	e PKPbc	Z 14:58:53.7	145.3	12.3					
CLL	e PKPbc	Z 14:58:53.5	145.5	16.9					
BRG	e PKPbc	Z 14:58:54.1	145.7	18.6					
TANN	e PKPbc	Z 14:58:56.4	146.4	16.3					
MANZ	e PKPbc	Z 14:58:57.9	146.9	15.9					
ROTZ	e PKPbc	Z 14:58:58.4	147.1	16.2					
TNS	e PKPbc	Z 14:58:58.8	147.2	9.5					
GRA1	e PKPbc	Z 14:58:59.2	147.3	14.5					
GEC2	e PKPbc	Z 14:58:59.7	147.7	19.2					
WLF	e PKPbc	Z 14:59:01.2	147.9	5.5					
BFO	e PKPbc	Z 14:59:03.3	149.0	9.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	15:38:32.1	22.192S	178.911E	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 15:58:12.2	147.1	19.7					
NRDL	e PKPbc	Z 15:58:15.4	148.5	20.1					
CLL	e PKPbc	Z 15:58:16.4	148.9	25.9					
BRG	e PKPbc	Z 15:58:16.8	149.0	27.8					
CLZ	e PKPbc	Z 15:58:17.0	149.1	21.0					
MANZ	e PKPbc	Z 15:58:20.0	150.3	25.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/17	19:19:12.8	37.865N	143.736E	33.0N	5.4			SZGRF

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:31:34.8	82.9	35.9	1.7	42	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/18	02:01:30.1	1.533N	96.416E	33.0N	5.0			SZGRF

Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:14:06.2	85.7	92.7	1.8	48	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/18	10:45:23.6	16.590S	167.620E	114.1				SZGRF

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 11:04:37.4	138.7	34.1					
	e PP	Z 11:07:29.2							
BRG	e PKPdf	Z 11:04:38.2	139.8	41.2					
	e PP	Z 11:07:34.4							
CLL	e PKPdf	Z 11:04:38.0	139.8	39.6					
	e PP	Z 11:07:34.5							
CLZ	e PKPdf	Z 11:04:39.4	140.4	35.6					
	e PP	Z 11:07:38.7							
TANN	e PKPdf	Z 11:04:40.1	140.7	39.5					
	e PP	Z 11:07:41.1							

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MOX	e PKPdf	Z	11:04:40.1	140.9	38.2
	e PP	Z	11:07:41.7		
	e pPP	Z	11:08:11.7		
MANZ	e PKPdf	Z	11:04:41.1	141.2	39.4
	e PP	Z	11:07:44.2		
	e pPP	Z	11:08:13.0		
ROTZ	e PKPdf	Z	11:04:41.3	141.3	39.7
	e PP	Z	11:07:44.7		
	e pPP	Z	11:08:13.1		
UBBA	e PKPdf	Z	11:04:41.0	141.4	35.8
	e PP	Z	11:07:45.4		
	e pPP	Z	11:08:13.0		
GEC2	e PKPdf	Z	11:04:41.2	141.4	42.5
	e PP	Z	11:07:45.2		
	e pPP	Z	11:08:12.7		
WET	e PKPdf	Z	11:04:41.7	141.5	41.1
	e PP	Z	11:07:46.5		
	e pPP	Z	11:08:13.5		
GRA1	e PKPdf	Z	11:04:42.0	141.8	38.3
	e PP	Z	11:07:47.7		
	e pPP	Z	11:08:15.8		
BFO	e PKPdf	Z	11:04:46.1	144.0	35.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/18								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:35:38.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/19	07:15:42.7	64.399N	147.448E	33.0N	5.4			SZGRF
Eastern Siberia, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 07:25:27.3	57.1	20.5	1.3	61	5.5		
NRDL	e P	Z 07:25:36.8	58.5	20.1					
CLL	e P	Z 07:25:39.6	59.0	21.1	1.0	70	5.6		
CLZ	e P	Z 07:25:41.1	59.1	20.1	1.4	100	5.7		
IBBN	e P	Z 07:25:41.1	59.2	19.0					
BRG	e P	Z 07:25:41.2	59.2	21.4	1.6	40	5.2		
MOX	e P	Z 07:25:46.6	59.9	20.4	1.3	54	5.4		
TANN	e P	Z 07:25:46.9	60.0	20.7					
BUG	e P	Z 07:25:47.4	60.1	18.6					
UBBA	e P	Z 07:25:47.5	60.1	19.7					
MANZ	e P	Z 07:25:50.1	60.5	20.4					

ROTZ	e P	Z	07:25:51.6	60.6	20.4						
GRFO	e P	Z	07:25:51.9	60.9	20.0	1.6	107	5.4			
TNS	e P	Z	07:25:53.9	61.0	18.9	1.3	32	5.0			
WET	e P	Z	07:25:54.6	61.1	20.6	1.5	46	5.1			
GEC2	e P	Z	07:25:54.9	61.2	20.9	1.2	38	5.1			
WLF	e P	Z	07:26:00.7	62.0	17.8						
STU	e P	Z	07:26:01.9	62.2	19.0						
FUR	e P	Z	07:26:02.8	62.4	19.7	1.1	53	5.6			
BFO	e P	Z	07:26:05.7	62.8	18.5	1.4	33	5.3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/19	09:34:53.9	42.105N	19.812E	10.0G				SZGRF
Northwestern Balkan Peninsula								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 09:36:49.1	8.0	145.3					
WET	e Pn	Z 09:36:56.8	8.5	142.9					
MANZ	e Pn	Z 09:37:09.3	9.5	143.0					
GRA1	e Pn	Z 09:37:11.7	9.6	138.6					
BFO	e Pn	Z 09:37:18.7	10.2	123.4					
	e Sn	N 09:39:08.5							
MOX	e Pn	Z 09:37:19.0	10.2	143.4					
TNS	e Pn	Z 09:37:34.0	11.3	131.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/19	21:00:49.7	39.975N	41.061E	33.0N	4.8			SZGRF
Turkey								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:05:53.0	23.1	103.5	1.5	54	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/20	00:11:59.2	45.602N	10.525E	10.0G			3.8	SZGRF
Northern Italy								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pg	Z 00:12:29.8	1.7	165.0					3.7
	e Sg	N 00:12:54.3							
WTTA	e Pg	Z 00:12:32.8	1.8	205.1					3.5
	e Sg	E 00:12:57.6							
KBA	e Pg	Z 00:12:42.1	2.4	233.8					3.6
	e Sg	E 00:13:17.5							
FUR	e Pn	Z 00:12:42.0	2.6	191.6					3.9

	e Sn	E	00:13:13.8								
BFO	e Pn	Z	00:12:47.5	3.1	150.4						3.9
MOA	e Pn	Z	00:12:53.9	3.4	230.1						3.7
ARSA	e Pn	Z	00:12:59.3	3.8	246.3						3.6
WET	e Pn	Z	00:12:58.7	3.9	205.1						3.7
	e Sn	N	00:13:42.8								
GEC2	e Pn	Z	00:12:59.1	3.9	214.8						3.6
	e Sn	N	00:13:44.4								
GRA1	e Pn	Z	00:13:00.3	4.1	186.8						4.2
	e Sn	E	00:13:49.3								
TNS	e Pn	Z	00:13:11.4	4.8	162.4						4.0
	e Sn	N	00:14:07.6								
TANN	e Pn	Z	00:13:12.3	5.0	195.8						3.9
	e Sn	E	00:14:08.3								
WLF	e Pn	Z	00:13:14.8	5.0	142.4						4.1
	e Sn	N	00:14:12.1								
MOX	e Pn	Z	00:13:14.0	5.1	188.6						3.9
	e Sn	N	00:14:12.0								

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/20 02:29:10.0 44.963N 153.034E 33.0N 4.4
 East of Kuril Islands, Russia

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z 02:41:14.7	79.7	26.4	1.5	8	4.4		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/20 10:48:57.5 13.343S 76.527W 33.0N 6.7
 Near coast of Peru

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	WLF	e Pdiff	Z 11:02:19.6	95.5	255.8					
	BFO	e Pdiff	Z 11:02:23.9	96.6	257.3					
	BUG	e Pdiff	Z 11:02:24.0	96.6	256.8					
	TNS	e Pdiff	Z 11:02:25.9	97.1	257.6					
	UBBA	e Pdiff	Z 11:02:31.9	98.1	258.8					
	FUR	e Pdiff	Z 11:02:33.3	98.5	259.4					
	NRDL	e Pdiff	Z 11:02:32.5	98.5	259.2					
	CLZ	e Pdiff	Z 11:02:34.0	98.6	259.3					
	GRA1	e Pdiff	Z 11:02:33.8	98.7	259.6					
		e PP	Z 11:06:32.7							
		e SKSac	R 11:13:11.4							
		e Sdiff	T 11:14:01.6							
		e L	Z 11:46:49.1			18.6	20580		6.7	
	BSEG	e Pdiff	Z 11:02:36.1	98.9	259.6					

MOX	e Pdiff	Z	11:02:35.8	99.1	260.0						
MANZ	e Pdiff	Z	11:02:37.1	99.3	260.3						
ROTZ	e Pdiff	Z	11:02:37.2	99.3	260.3						
TANN	e Pdiff	Z	11:02:38.4	99.6	260.6						
WET	e Pdiff	Z	11:02:38.6	99.7	260.7						
GEC2	e Pdiff	Z	11:02:40.5	100.2	261.3						
CLL	e P	Z	11:02:41.5	100.0	261.2						
	e PP	Z	11:06:46.4								
	e SKSac	E	11:13:22.8								
	e Sdiff	N	11:14:08.7								
	e PS	E	11:15:48.3								
	e (PPS)	Z	11:16:19.9								
	e SS	E	11:21:18.2								
	e SSS	N	11:25:03.8								
	e LR	Z	11:37:32.0								
	e L	Z	11:44:41.7			22.0	34696		6.8		
BRG	e Pdiff	Z	11:02:43.0	100.6	261.8						

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/20 11:14:36.4 60.924N 167.886E 11.9 5.2
 Eastern Siberia, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:25:31.4	67.8	12.0	1.1	18	5.2		
	e pP	Z 11:25:34.8							

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/20 14:13:12.8 22.730S 176.490W 126.3
 South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 14:32:47.0	149.8	12.2					
CLZ	e PKPbc	Z 14:32:49.5	150.4	12.9					
CLL	e PKPbc	Z 14:32:49.3	150.5	18.0					
	e pPKPbc	Z 14:33:22.9							
BRG	e PKPbc	Z 14:32:49.9	150.7	20.0					
	e PKPab	Z 14:32:56.9							
MOX	e PKPbc	Z 14:32:51.4	151.4	15.8					
	e PKPab	Z 14:32:59.4							
	e pPKPbc	Z 14:33:24.9							
TANN	e PKPbc	Z 14:32:51.5	151.4	17.5					
MANZ	e PKPbc	Z 14:32:53.0	151.9	17.0					
	e pPKPbc	Z 14:33:26.6							
TNS	e PKPbc	Z 14:32:53.5	152.2	9.8					
	e PKPab	Z 14:33:03.6							

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GRA1	e	PKPbc	Z	14:32:53.5	152.4	15.5
	e	PKPab	Z	14:33:04.5		
	e	pPKPbc	Z	14:33:27.7		
WET	e	PKPab	Z	14:33:05.0	152.6	19.0
GEC2	e	PKPbc	Z	14:32:54.2	152.7	20.8
WLF	e	pPKPbc	Z	14:33:29.8	153.0	5.4
FUR	e	PKPab	Z	14:33:10.7	153.8	16.4
BFO	e	PKPab	Z	14:33:11.4	154.1	10.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/20	14:31:15.7	16.012N	119.891E	33.0	5.3	6.0		SZGRF
Luzon, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 14:43:59.3	87.3	67.7	1.4	35	5.3		
CLL	e P	Z 14:44:01.8	87.7	67.0	1.3	22	5.3		
BSEG	e P	Z 14:44:03.3	88.1	65.0	1.4	25	5.3		
GEC2	e P	Z 14:44:05.0	88.2	67.4	1.2	22	5.4		
TANN	e P	Z 14:44:04.8	88.3	66.6	1.4	17	5.2		
WET	e P	Z 14:44:06.0	88.6	66.8	1.4	24	5.2		
MANZ	e P	Z 14:44:07.0	88.7	66.3	1.3	14	5.0		
MOX	e P	Z 14:44:07.2	88.7	65.9	1.5	22	5.2		
ROTZ	e P	Z 14:44:05.7	88.7	66.3	1.3	26	5.3		
NRDL	e P	Z 14:44:06.6	88.8	64.8	1.2	17	5.1		
CLZ	e P	Z 14:44:07.3	88.9	65.0	1.2	21	5.3		
GRA1	e P	Z 14:44:09.2	89.4	65.6					
	e L	Z 15:29:02.4			18.9	5539		6.0	
UBBA	e P	Z 14:44:11.4	89.6	64.7	0.6	13	5.4		
IBBN	e P	Z 14:44:14.8	90.2	62.9	0.6	15	5.4		
TNS	e P	Z 14:44:16.7	90.7	63.5	1.4	20	5.3		
BFO	e P	Z 14:44:20.4	91.7	63.4	1.5	23	5.3		
WLF	e P	Z 14:44:22.2	92.3	61.7	1.3	22	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/20	17:27: 4.3	13.121N	121.380E	29.2	5.8	6.1		SZGRF
Mindoro, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:40:12.4	92.5	66.2	1.7	70	5.8		
	e pP	Z 17:40:21.0							
	e PP	Z 17:43:54.3							
	e L	Z 18:24:55.9			18.8	6916		6.1	

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/20	18:15:24.1	40.288N	27.850E	33.0N	4.4			SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 18:18:34.3	13.2	125.2	1.2	24			
WET	e P	Z 18:18:43.9	13.8	124.3	1.4	25			
ROTZ	e P	Z 18:18:51.4	14.5	124.8	2.1	30			
MANZ	e P	Z 18:18:54.9	14.7	125.3	1.1	5			
TANN	e P	Z 18:18:56.0	14.8	127.4	1.4	27			
GRA1	e P	Z 18:18:59.3	15.0	122.5	0.7	14			
MOX	e P	Z 18:19:03.3	15.3	126.2	1.8	54			
STU	e P	Z 18:19:07.4	15.7	115.7	1.5	44			
BFO	e P	Z 18:19:14.6	16.1	112.8	1.6	65	4.5		
UBBA	e P	Z 18:19:16.6	16.3	123.4	1.7	24			
CLZ	e P	Z 18:19:23.6	16.7	127.0	1.7	58	4.4		
TNS	e P	Z 18:19:22.9	16.8	118.8	1.0	29			
NRDL	e P	Z 18:19:27.0	17.2	128.2	1.8	37			
BSEG	e P	Z 18:19:38.6	18.0	132.1	1.2	38	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/20	20:20:40.7	9.671S	74.784W	121.0	5.1			NEIC

Central Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 20:33:33.9	91.6	256.9	1.1	18	5.3		
BFO	e P	Z 20:33:39.0	92.7	258.5	1.8	28	5.4		
TNS	e P	Z 20:33:41.6	93.1	258.6	0.8	6	5.1		
FUR	e P	Z 20:33:47.8	94.6	260.6	0.7	8	5.3		
CLZ	e P	Z 20:33:48.2	94.6	260.2	1.1	9	5.1		
BSEG	e P	Z 20:33:50.1	94.9	260.4	1.0	7	5.1		
NEUB	e P	Z 20:33:52.0	95.4	261.3					
MANZ	e P	Z 20:33:52.4	95.4	261.4	1.0	4	4.8		
ROTZ	e P	Z 20:33:52.2	95.4	261.4	1.8	20	5.2		
WERD	e P	Z 20:33:53.1	95.6	261.6	1.5	6	4.9		
TANN	e P	Z 20:33:53.6	95.7	261.7	1.5	15	5.3		
WET	e P	Z 20:33:54.1	95.8	261.9	1.3	7	5.1		
GEC2	e P	Z 20:33:55.2	96.3	262.5	0.9	4	4.9		
BRG	e P	Z 20:33:57.8	96.7	262.9	1.0	3	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/20	22:09:32.1	13.625N	120.753E	14.7		5.7		SZGRF

Mindoro, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	22:22:39.4	91.8	66.4				
	e pP	Z	22:22:42.7			1.0	30		
	e PP	Z	22:26:24.6						
	e S	T	22:33:42.9						
	e L	Z	23:07:21.2			18.7	2793	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:06:43.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21	07:04:13.1	43.989N	12.957E	10.0G			4.5	SZGRF
Central Italy								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z 07:05:19.6	4.3	163.8					4.8
GEC2	e Pn	Z 07:05:26.1	4.9	186.3					4.3
	e Sn	E 07:06:23.3							
WET	e Pn	Z 07:05:29.4	5.2	179.4					
	e Sn	E 07:06:27.2							
BFO	e Pn	Z 07:05:32.7	5.4	141.9					
	e Sn	N 07:06:32.5							
ROTZ	e Pn	Z 07:05:37.6	5.8	174.7					
	e Sn	E 07:06:42.1							
GRA1	e Pn	Z 07:05:38.4	5.8	167.6					
	e Sn	E 07:06:43.3							
MANZ	e Pn	Z 07:05:40.9	6.0	174.2					
	e Sn	E 07:06:47.2							
WERN	e Pn	Z 07:05:45.5	6.3	176.2					
GUNZ	e Pn	Z 07:05:46.0	6.4	176.0					
	e Sn	E 07:06:56.7							
TANN	e Pn	Z 07:05:47.1	6.4	176.8					
	e Sn	E 07:07:00.0							
WERD	e Pn	Z 07:05:47.5	6.5	175.8					
MOX	e Pn	Z 07:05:50.1	6.7	171.7					
	e Sn	N 07:07:03.7							
BRG	e Pn	Z 07:05:53.2	6.9	185.9					
	e Sn	N 07:07:09.6							
FBE	e Pn	Z 07:05:54.0	6.9	182.4					
	e Sn	N 07:07:10.7							
TNS	e Pn	Z 07:05:54.4	6.9	152.1					
	e Sn	E 07:07:11.0							
UBBA	e Pn	Z 07:05:57.0	7.1	162.6					

CLL	e Pn	Z	07:05:59.5	7.3	180.3
WLF	e Pn	Z	07:06:01.9	7.3	138.1
CLZ	e Pn	Z	07:06:09.2	8.0	166.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21	08:55:18.4	43.874N	12.934E	10.0G			3.7	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
KBA	e Pn	Z	08:56:09.4	3.2	185.3					3.7
	e Sn	N	08:56:48.0							
WTTA	e Pn	Z	08:56:14.6	3.5	164.5					3.8
ARSA	e Pn	Z	08:56:16.3	3.8	209.2					3.3
	e Sn	E	08:57:01.1							
DAVA	e Pn	Z	08:56:21.2	4.0	146.8					3.5
MOA	e Pn	Z	08:56:21.0	4.1	193.6					3.4
	e Sn	N	08:57:07.8							
GEC2	e Pn	Z	08:56:32.6	5.0	186.4					3.7
	e Sn	N	08:57:28.7							
WET	e Pn	Z	08:56:35.7	5.3	179.6					
	e Sn	N	08:57:36.0							
BFO	e Pn	Z	08:56:39.3	5.5	142.7					
	e Sn	N	08:57:39.0							
GRA1	e Sn	N	08:57:51.4	5.9	168.0					
MOX	e Pn	Z	08:56:56.7	6.8	172.0					
TNS	e Pn	Z	08:57:01.1	7.0	152.6					
	e Sn	N	08:58:18.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21	18:23:16.6	12.630N	121.880E	17.6	5.6	6.2		SZGRF

Mindoro, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:36:21.1	91.1	68.2	1.1	41	5.7		
CLL	e P	Z	18:36:22.6	91.5	67.5	1.2	29	5.5		
BSEG	e P	Z	18:36:24.3	92.0	65.2	1.4	36	5.5		
GEC2	e P	Z	18:36:25.3	92.0	68.1	2.2	118	5.8		
TANN	e P	Z	18:36:26.6	92.2	67.1	1.3	29	5.5		
WET	e P	Z	18:36:28.1	92.4	67.4	2.2	117	5.9		
MANZ	e P	Z	18:36:29.3	92.6	66.8	1.5	31	5.5		
MOX	e P	Z	18:36:27.7	92.6	66.4	1.4	35	5.6		
ROTZ	e P	Z	18:36:28.6	92.6	66.9	1.3	33	5.6		
NRDL	e P	Z	18:36:29.5	92.7	65.1	1.3	23	5.5		
GRA1	e P	Z	18:36:30.8	93.2	66.1	1.3	20	5.4		
	e pP	Z	18:36:35.9							

	e PP	Z	18:40:14.5									
	e L	Z	19:21:14.0			19.2	8633		6.2			
FUR	e P	Z	18:36:31.8	93.8	66.3	1.4	66		5.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21	19:35:57.4	22.761N	141.655E	33.0N	5.2			SZGRF

Volcano Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:49:18.2	95.3	44.8	1.4	11	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21	21:20: 7.6	3.600N	125.900E	111.0				NEIC

Talau Islands, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 21:33:53.2	102.8	68.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/21	22:48:56.6	48.174N	154.041E	33.0N	5.1			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:00:46.7	77.0	24.4	0.9	13	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/22	08:55:18.7	46.000S	96.300E	33.0		5.8		GSRC

Southeast Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:14:06.9	120.7	126.4					
	e L	Z 10:10:46.6			21.4	2448		5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/22	17:16:43.1	38.434N	44.266E	5.0G	4.1			KAN

Turkey-Iran border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:22:23.4	26.0	103.0	1.1	5	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/10/22												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e PKP	Z 23:40:07.9								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/10/23	00:19:25.8	4.783N	125.295E	37.0G		5.3		NEIC				
Talaud Islands, Indonesia												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		BRG	e Pdiff	Z 00:33:03.4	99.5	70.2						
		GEC2	e Pdiff	Z 00:33:07.2	100.3	70.3						
		TANN	e Pdiff	Z 00:33:08.0	100.5	69.1						
		MANZ	e Pdiff	Z 00:33:10.6	100.9	68.9						
		ROTZ	e Pdiff	Z 00:33:10.1	100.9	69.0						
		MOX	e Pdiff	Z 00:33:10.7	100.9	68.3						
		NRDL	e Pdiff	Z 00:33:11.1	101.1	66.8						
		CLZ	e Pdiff	Z 00:33:12.4	101.2	67.1						
		GRA1	e Pdiff	Z 00:33:12.3	101.5	68.2						
			e L	Z 01:21:52.6			21.3	1101		5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2006/10/23	03:52:51.0	47.740N	153.680E	33.0N	5.0			SZGRF				
Kuril Islands, Russia												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		NRDL	e P	Z 04:04:31.3	75.1	24.4	1.0	13	4.9			
		CLL	e P	Z 04:04:33.2	75.4	26.1	0.8	28	5.5			
		BRG	e P	Z 04:04:34.8	75.5	26.7	0.8	6	4.8			
		CLZ	e P	Z 04:04:35.4	75.6	24.5	0.9	20	5.2			
		MOX	e P	Z 04:04:39.3	76.4	25.2	0.9	10	4.9			
		MANZ	e P	Z 04:04:42.1	76.8	25.4	0.8	7	4.8			
		ROTZ	e P	Z 04:04:42.6	77.0	25.5	0.8	7	4.8			
		GRA1	e P	Z 04:04:44.8	77.3	24.8	0.8	19	5.3			
		WET	e P	Z 04:04:44.8	77.4	25.8	0.9	12	5.0			
		GEC2	e P	Z 04:04:44.7	77.4	26.3	0.8	5	4.7			
		TNS	e P	Z 04:04:46.2	77.6	23.1	0.8	13	5.1			
		BFO	e P	Z 04:04:55.5	79.3	22.9	1.1	11	4.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/23	21:00:23.4	20.308S	64.562W	33.0N	5.1			SZGRF

Southern Bolivia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	21:13:36.2	93.7	242.5	1.1	37	5.5		
BFO	e P	Z	21:13:39.3	94.3	244.0	1.0	7	4.8		
BUG	e P	Z	21:13:43.5	95.1	243.5	0.7	15	5.3		
TNS	e P	Z	21:13:43.6	95.2	244.2	1.2	18	5.2		
IBBN	e P	Z	21:13:46.6	95.8	243.9	0.8	20	5.5		
GRA1	e P	Z	21:13:50.3	96.6	246.2	1.1	18	5.3		
CLZ	e P	Z	21:13:51.5	97.0	245.8	1.1	8	5.0		
MANZ	e P	Z	21:13:53.2	97.3	246.9	1.1	8	4.9		
WET	e P	Z	21:13:53.9	97.4	247.4	1.1	9	5.0		
TANN	e P	Z	21:13:55.4	97.7	247.2	1.2	6	4.9		
GEC2	e P	Z	21:13:55.1	97.8	247.9	1.1	8	5.0		
BSEG	e P	Z	21:13:55.5	97.8	246.1	0.9	9	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/23	21:17:26.8	30.337N	140.828E	33.0N	6.0	6.3		SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	21:29:53.9	83.9	43.5	1.3	356	6.4		
	e S	T	21:40:24.0							
RUE	e P	Z	21:30:00.2	85.2	43.7	1.0	136	6.0		
	e S	T	21:40:36.6							
BSEG	e P	Z	21:30:01.9	85.5	41.2	1.6	407	6.3		
	e S	T	21:40:39.9							
HLG	e S	T	21:40:46.1	86.2	39.3					
BRG	e P	Z	21:30:05.2	86.3	43.8	1.0	74	5.7		
	e S	T	21:40:46.0							
CLL	e P	Z	21:30:06.0	86.4	43.1	1.2	120	6.1		
	e PP	Z	21:33:31.1							
	e SKSac	E	21:40:34.9							
	e S	E	21:40:44.4							
	e SP	Z	21:41:41.2							
	e SS	E	21:46:36.8							
	e SSS	E	21:50:18.7							
	e SSSS	N	21:53:29.4							
	e LQ	E	21:57:35.5							
	e LR	Z	21:59:50.9							
	e L	Z	22:15:24.6			20.0	19657		6.5	
FBE	e P	Z	21:30:06.4	86.5	43.3					
NRDL	e P	Z	21:30:07.4	86.7	40.9	1.8	160	6.0		
	e S	T	21:40:50.0							
CLZ	e P	Z	21:30:09.4	87.1	41.1	1.0	75	6.0		

	e S	T	21:40:53.4								
TANN	e P	Z	21:30:10.0	87.3	42.6	1.5	87	5.9			
	e S	T	21:40:54.3								
WERD	e P	Z	21:30:10.1	87.3	42.5	1.7	112	5.9			
GUNZ	e P	Z	21:30:10.6	87.3	42.5	1.4	121	6.0			
WERN	e P	Z	21:30:10.7	87.4	42.6	1.5	151	6.1			
MOX	e P	Z	21:30:10.9	87.4	42.0	1.9	205	6.0			
	e S	T	21:40:56.5								
MANZ	e P	Z	21:30:12.5	87.7	42.4	1.6	110	5.8			
	e S	T	21:40:58.6								
IBBN	e P	Z	21:30:12.3	87.7	39.1	1.4	306	6.3			
	e S	T	21:40:58.4								
ROTZ	e P	Z	21:30:13.2	87.8	42.4	1.5	182	6.1			
	e S	T	21:41:02.3								
GEC2	e P	Z	21:30:12.5	87.9	43.5	1.2	60	5.7			
	e S	T	21:40:59.8								
UBBA	e P	Z	21:30:13.5	88.0	40.8	1.9	202	6.0			
	e S	T	21:41:00.4								
WET	e P	Z	21:30:13.8	88.0	42.9	2.2	220	6.0			
	e S	T	21:41:01.2								
GRA1	e P	Z	21:30:15.4	88.3	41.7	1.6	330	6.3			
	e S	T	21:41:04.0								
	e L	Z	22:14:29.4			19.1	11846	6.3			
BUG	e P	Z	21:30:16.1	88.6	38.7	1.1	94	5.9			
	e S	T	21:41:04.8								
TNS	e P	Z	21:30:18.8	89.1	39.6	1.5	80	5.7			
FUR	e P	Z	21:30:20.4	89.4	41.7	1.4	301	6.4			
STU	e P	Z	21:30:22.2	89.9	40.2	1.3	174	6.2			
	e S	T	21:41:14.7								
WLF	e P	Z	21:30:25.5	90.4	37.9	1.5	252	6.3			
	e S	T	21:41:20.1								
BFO	e P	Z	21:30:25.4	90.6	39.5	1.3	170	6.2			
	e S	R	21:41:21.2								

Date 2006/10/24 Origin Time 03:03:26.9 Lat 26.112S Long 9.328W Depth 33.0N mb 4.9 Ms Ms ML Source SZGRF
 Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:15:22.3	78.0	198.8	1.8	18	4.9		

Date 2006/10/24 Origin Time 03:03:48.9 Lat 5.000N Long 125.100E Depth 50.0 mb Ms 5.8 ML Source GSRC
 Mindanao, Philippine Islands

./2006/bul0610.txt

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 03:17:38.0	101.2	68.2					
	e L	Z 04:06:08.5			21.2	3391		5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/24	03:39:38.0	35.164N	27.351E	33.0N	4.6			THE

Dodecanese Islands, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:43:34.1	17.0	138.6	1.4	75	4.7		
WET	e P	Z 03:43:40.2	17.6	137.4	1.3	31	4.4		
FUR	e P	Z 03:43:40.4	17.6	131.6	1.7	148	4.9		
ROTZ	e P	Z 03:43:47.7	18.3	137.2	1.3	31	4.4		
BRG	e P	Z 03:43:52.5	18.5	143.2	1.3	28	4.3		
MANZ	e P	Z 03:43:50.7	18.5	137.4	1.2	32	4.4		
TANN	e P	Z 03:43:54.6	18.7	139.0	1.2	14	4.1		
GRA1	e P	Z 03:43:53.8	18.7	134.9	1.5	96	4.8		
GUNZ	e P	Z 03:43:53.5	18.7	138.6	1.2	27	4.3		
FBE	e P	Z 03:43:53.6	18.7	142.0	1.3	96	4.9		
WERD	e P	Z 03:43:55.6	18.8	138.8	1.3	33	4.4		
CLL	e P	Z 03:43:59.3	19.2	141.9	1.5	82	4.9		
MOX	e P	Z 03:43:59.0	19.2	137.7	2.0	96	4.8		
TNS	e P	Z 03:44:10.4	20.4	130.5	1.2	60	4.9		
CLZ	e P	Z 03:44:14.3	20.6	137.3	1.6	49	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/24	14:00:25.9	40.588N	28.226E	33.0G	4.5	3.5		SZGRF

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 14:03:38.4	13.2	123.3	1.5	34			
WET	e P	Z 14:03:45.6	13.8	122.5	1.3	40			
BRG	e P	Z 14:03:51.8	14.3	130.6	1.6	41			
ROTZ	e P	Z 14:03:56.4	14.5	123.2	1.7	33			
WERN	e P	Z 14:03:55.2	14.7	125.2	1.4	31			
TANN	e P	Z 14:03:57.5	14.7	125.8	1.7	55			
GUNZ	e P	Z 14:03:58.2	14.8	125.3	1.1	21			
WERD	e P	Z 14:03:56.6	14.8	125.5	1.4	32			
GRA1	e P	Z 14:04:01.1	15.0	120.9					
	e L	Z 14:17:20.6			18.1	336		3.5	
CLL	e P	Z 14:04:01.0	15.0	129.6	1.3	40			
MOX	e P	Z 14:04:04.2	15.3	124.7	1.7	57			
BFO	e P	Z 14:04:14.3	16.1	111.3	1.4	51	4.5		
UBBA	e P	Z 14:04:16.4	16.3	121.9	2.1	96			
TNS	e P	Z 14:04:21.6	16.8	117.4	1.4	23			

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/24 14:21:45.9 29.439N 140.204E 69 4.8
 Izu Islands, Japan region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:34:33.6	89.0	42.5					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/24

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:23:00.1							

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/25 05:06:4.5 1.320N 97.430E 25.8 5.3 4.6
 Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 05:18:37.2	84.9	94.2	1.0	18	5.2		
GEC2	e P	Z 05:18:37.5	84.9	93.9	1.1	40	5.5		
	e pP	Z 05:18:45.0							
WET	e P	Z 05:18:40.0	85.4	93.3	0.9	21	5.4		
CLL	e P	Z 05:18:39.7	85.5	93.5	1.1	22	5.3		
TANN	e P	Z 05:18:42.0	85.8	93.0	1.3	15	5.0		
ROTZ	e P	Z 05:18:43.0	85.9	92.8	1.0	21	5.2		
	e pP	Z 05:18:50.3							
MANZ	e P	Z 05:18:43.5	86.0	92.7	1.0	34	5.4		
MOX	e P	Z 05:18:44.6	86.3	92.4	1.5	30	5.2		
GRA1	e P	Z 05:18:46.0	86.5	92.0	1.1	28	5.3		
	e L	Z 06:04:43.2			21.5	238		4.6	
CLZ	e P	Z 05:18:47.9	87.1	91.5	1.4	32	5.3		
BSEG	e P	Z 05:18:48.8	87.2	91.6	0.9	30	5.4		
NRDL	e P	Z 05:18:49.7	87.3	91.3	1.2	46	5.5		
TNS	e P	Z 05:18:54.1	88.3	89.9	1.3	32	5.5		
	e pP	Z 05:19:01.9							
BFO	e P	Z 05:18:53.8	88.4	89.8	1.1	10	5.1		
IBBN	e P	Z 05:18:56.8	88.8	89.5	0.9	50	5.7		
BUG	e P	Z 05:18:57.9	89.1	89.1					
	e pP	Z 05:19:05.4							
WLF	e P	Z 05:19:01.9	89.8	88.2	1.3	53	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/25								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:32:27.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/25	09:17:19.6	19.040S	173.890W	33.0				SZGRF
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 09:36:52.9	145.0	6.9					
NRDL	e PKPbc	Z 09:36:57.2	146.4	6.8					
CLZ	e PKPbc	Z 09:36:57.3	147.0	7.4					
CLL	e PKPbc	Z 09:36:59.0	147.3	12.1					
BRG	e PKPbc	Z 09:37:00.6	147.6	13.9					
UBBA	e PKPdf	Z 09:36:59.6	148.1	7.0					
	e PKPbc	Z 09:37:02.1							
MOX	e PKPbc	Z 09:36:59.5	148.1	9.9					
MANZ	e PKPbc	Z 09:37:02.8	148.7	11.0					
TNS	e PKPbc	Z 09:37:03.6	148.8	4.3					
ROTZ	e PKPbc	Z 09:37:03.8	148.9	11.2					
GRA1	e PKPbc	Z 09:37:06.9	149.1	9.4					
WET	e PKPbc	Z 09:37:06.0	149.4	12.6					
GEC2	e PKPbc	Z 09:37:05.5	149.6	14.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/25	17:40:48.3	44.726N	10.620E	10.0G			3.0	SZGRF
Northern Italy								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 17:41:31.1	2.6	168.4					3.0
WITA	e Pn	Z 17:41:31.5	2.6	195.9					3.0
WFO	e Pn	Z 17:41:47.5	3.9	155.5					
	e Sn	E 17:42:30.4							
GEC2	e Pn	Z 17:41:55.8	4.6	208.3					
	e Sn	E 17:42:47.8							
WET	e Pn	Z 17:41:56.6	4.7	200.1					
	e Sn	E 17:42:49.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/25	18:15:23.5	12.114N	87.450W	16.2	5.1			SZGRF

Near coast of Nicaragua

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:28:04.8	86.3	284.4	1.0	18	5.1		
	e pP	Z 18:28:09.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/25	22:58:3.4	37.184N	139.934E	33.0N	4.8			SZGRF

Eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:10:20.6	82.0	38.9	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/26	00:41:17.9	12.609N	121.990E	33.0N	5.0			SZGRF

Mindoro, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:54:29.6	93.3	66.1	0.9	5	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/26	09:34:35.6	15.840S	173.720W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
MOX	e PKPbc	Z 09:54:07.9	144.9	9.0					
WERD	e PKPbc	Z 09:54:08.4	145.1	10.2					
TANN	e PKPbc	Z 09:54:08.5	145.1	10.4					
GUNZ	e PKPbc	Z 09:54:08.9	145.1	10.2					
WERN	e PKPbc	Z 09:54:09.2	145.2	10.3					
MANZ	e PKPbc	Z 09:54:10.1	145.5	9.9					
ROTZ	e PKPbc	Z 09:54:11.1	145.7	10.2					
GRA1	e PKPbc	Z 09:54:11.8	145.9	8.5					
GRFO	e PKPbc	Z 09:54:11.9	145.9	8.5					
WET	e PKPbc	Z 09:54:12.5	146.3	11.5					
GEC2	e PKPbc	Z 09:54:13.2	146.4	13.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/26	14:28:27.9	38.312N	15.432E	200.0G				SZGRF

Sicily, Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	14:30:56.5	10.3	161.5					
	e Sn	N	14:32:47.4							
GEC2	e Pn	Z	14:30:59.6	10.6	172.6					
WET	e Pn	Z	14:31:04.4	11.0	169.4					
	e Sn	E	14:32:58.8							
BFO	e Pn	Z	14:31:07.9	11.3	150.2					
	e Sn	E	14:33:08.3							
STU	e Pn	Z	14:31:09.6	11.4	154.4					
	e Sn	N	14:33:08.7							
ROTZ	e Pn	Z	14:31:12.8	11.7	167.4					
	e Sn	N	14:33:16.0							
GRA1	e Pn	Z	14:31:14.3	11.8	163.6					
	e Sn	N	14:33:19.1							
MANZ	e Pn	Z	14:31:15.9	11.9	167.3					
	e Sn	N	14:33:21.0							
WERN	e Pn	Z	14:31:19.5	12.2	168.6					
	e Sn	E	14:33:28.5							
GUNZ	e Pn	Z	14:31:20.7	12.3	168.5					
	e Sn	N	14:33:31.9							
TANN	e Pn	Z	14:31:20.9	12.3	169.0					
WERD	e Pn	Z	14:31:21.2	12.3	168.4					
BRG	e Pn	Z	14:31:24.9	12.6	174.6					
MOX	e Pn	Z	14:31:25.1	12.6	166.2					
FBE	e Pn	Z	14:31:26.2	12.7	172.6					
TNS	e Pn	Z	14:31:29.5	12.9	154.7					
UBBA	e Pn	Z	14:31:31.2	13.1	160.8					
CLL	e Pn	Z	14:31:31.9	13.1	171.6					
WLF	e Pn	Z	14:31:33.0	13.1	146.2					
	e Sn	N	14:33:52.1							
GTTG	e Pn	Z	14:31:42.5	13.8	161.7					
CLZ	e Pn	Z	14:31:42.5	14.0	163.4					
RUE	e Pn	Z	14:31:45.3	14.2	174.7					
BUG	e Pn	Z	14:31:47.9	14.3	153.2					
NRDL	e Pn	Z	14:31:50.5	14.7	163.3					
	e Sn	N	14:34:29.6							
IBBN	e Pn	Z	14:31:55.7	15.0	156.1					
BSEG	e Pn	Z	14:32:05.3	16.0	165.3					
RGN	e Pn	Z	14:32:08.8	16.3	174.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/26	15:08:49.5	0.302N	99.261E	33.0N	5.2			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	15:21:29.1	86.8	93.4	1.5	25	5.1		
GEC2	e P	Z	15:21:29.1	86.9	93.1	1.5	26	5.1		

RUE	e P	Z	15:21:30.2	87.0	93.4	1.4	83	5.7
FBE	e P	Z	15:21:30.6	87.2	93.0	1.4	29	5.2
WET	e P	Z	15:21:32.1	87.4	92.5	1.4	22	5.1
CLL	e P	Z	15:21:31.8	87.4	92.7	1.8	32	5.2
WERN	e P	Z	15:21:33.6	87.8	92.2	2.1	56	5.3
GUNZ	e P	Z	15:21:34.0	87.8	92.2	1.5	22	5.1
WERD	e P	Z	15:21:34.2	87.8	92.2	1.2	11	4.8
ROTZ	e P	Z	15:21:34.0	87.9	92.1	1.5	12	4.8
MANZ	e P	Z	15:21:34.8	87.9	92.0	1.4	23	5.1
MOX	e P	Z	15:21:36.1	88.3	91.6	1.6	19	5.2
GRA1	e P	Z	15:21:39.0	88.5	91.3	0.6	8	5.2
CLZ	e P	Z	15:21:40.0	89.1	90.7	1.6	50	5.5
TNS	e P	Z	15:21:45.4	90.3	89.2	1.8	39	5.3
BFO	e P	Z	15:21:46.0	90.4	89.1	1.0	6	4.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/26 22:54:31.8 13.343S 76.527W 26.0G 5.6 NEIC
 Near coast of Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 23:08:09.6	98.7	259.6					
	e PP	Z 23:12:08.7							
	e SKSac	R 23:19:05.8							
	e S	T 23:19:44.1							
	e L	Z 23:52:21.6			19.1	1792		5.6	

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/27 11:50:28.4 21.500S 174.500W 33.0N SZGRF
 Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 12:10:13.8	149.6	13.9					
BRG	e PKPbc	Z 12:10:14.6	149.9	15.8					
FBE	e PKPbc	Z 12:10:15.0	149.9	14.7					
MOX	e PKPbc	Z 12:10:15.6	150.5	11.6					
TANN	e PKPbc	Z 12:10:16.3	150.6	13.3					
GUNZ	e PKPbc	Z 12:10:16.8	150.6	13.0					
WERN	e PKPbc	Z 12:10:17.3	150.7	13.2					
MANZ	e PKPbc	Z 12:10:17.9	151.0	12.8					
GEC2	e PKPbc	Z 12:10:19.4	151.9	16.4					

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/27 18:06:43.2 23.500S 178.500W 33.0N SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	18:26:29.7	149.5	22.6					
NRDL	e PKPbc	Z	18:26:31.1	150.3	16.1					
IBBN	e PKPbc	Z	18:26:32.5	150.8	11.8					
CLL	e PKPbc	Z	18:26:32.1	150.8	22.0					
CLZ	e PKPbc	Z	18:26:32.5	150.9	16.9					
BRG	e PKPbc	Z	18:26:32.7	151.0	24.0					
	e PKPab	Z	18:26:40.0							
FBE	e PKPbc	Z	18:26:33.0	151.1	22.9					
GTTG	e PKPbc	Z	18:26:34.1	151.2	16.3					
BUG	e PKPbc	Z	18:26:34.0	151.7	11.2					
MOX	e PKPdf	Z	18:26:29.1	151.7	19.9					
	e PKPbc	Z	18:26:34.3							
TANN	e PKPbc	Z	18:26:34.4	151.8	21.6					
WERD	e PKPbc	Z	18:26:34.4	151.8	21.3					
UBBA	e PKPbc	Z	18:26:34.2	151.9	16.7					
WERN	e PKPdf	Z	18:26:30.2	151.9	21.6					
	e PKPbc	Z	18:26:35.3							
	e PKPab	Z	18:26:44.4							
MANZ	e PKPdf	Z	18:26:30.1	152.2	21.3					
	e PKPbc	Z	18:26:35.8							
ROTZ	e PKPbc	Z	18:26:36.6	152.4	21.6					
GRA1	e PKPbc	Z	18:26:37.1	152.7	19.7					
TNS	e PKPbc	Z	18:26:37.0	152.7	14.0					
WET	e PKPbc	Z	18:26:36.6	152.8	23.3					
GEC2	e PKPdf	Z	18:26:30.9	152.9	25.2					
	e PKPbc	Z	18:26:37.3							
	e PKPab	Z	18:26:48.6							
WLF	e PKPbc	Z	18:26:39.4	153.6	9.6					
STU	e PKPdf	Z	18:26:32.4	154.0	16.3					
	e PKPbc	Z	18:26:39.7							
	e PKPab	Z	18:26:52.9							
BFO	e PKPbc	Z	18:26:40.8	154.6	14.7					
	e PKPab	Z	18:26:55.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/28	00:53:47.9	13.900N	85.910W	13.8	5.5	5.3		SZGRF
Nicaragua								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	01:06:01.6	80.8	280.6	1.5	71	5.5		
BUG	e P	Z	01:06:03.0	81.1	281.2	1.4	57	5.4		
IBBN	e P	Z	01:06:03.7	81.3	281.4	1.4	53	5.4		
TNS	e P	Z	01:06:08.4	82.1	282.3	1.5	61	5.5		
BSEG	e P	Z	01:06:10.0	82.4	283.2	1.5	49	5.5		

BFO	e P	Z	01:06:09.7	82.4	282.4	1.4	29	5.3		
NRDL	e P	Z	01:06:11.1	82.6	283.2	1.5	61	5.6		
STU	e P	Z	01:06:12.3	82.9	283.0	1.2	23	5.3		
CLZ	e P	Z	01:06:12.8	82.9	283.5	1.6	70	5.6		
UBBA	e P	Z	01:06:12.6	82.9	283.4	1.9	56	5.5		
GRA1	e P	Z	01:06:18.2	84.0	284.4	1.4	57	5.6		
	e pP	Z	01:06:22.2							
	e L	Z	01:40:08.6			20.8	1380		5.3	
MOX	e P	Z	01:06:17.9	84.0	284.6	1.6	47	5.5		
FUR	e P	Z	01:06:20.0	84.4	284.6					
MANZ	e P	Z	01:06:20.6	84.4	285.0	1.5	37	5.4		
WERD	e P	Z	01:06:20.5	84.4	285.1	1.5	50	5.5		
GUNZ	e P	Z	01:06:20.9	84.5	285.2	1.4	44	5.5		
WERN	e P	Z	01:06:21.2	84.5	285.2	1.4	59	5.6		
TANN	e P	Z	01:06:21.0	84.5	285.3	1.5	59	5.6		
ROTZ	e P	Z	01:06:21.3	84.6	285.1	1.5	45	5.5		
CLL	e P	Z	01:06:21.0	84.6	285.6	1.5	48	5.5		
RUE	e P	Z	01:06:22.0	84.8	286.1	1.5	55	5.6		
FBE	e P	Z	01:06:23.2	85.0	285.9	1.5	61	5.6		
WET	e P	Z	01:06:24.1	85.1	285.7	1.4	57	5.6		
BRG	e P	Z	01:06:24.7	85.3	286.3	1.7	56	5.5		
GEC2	e P	Z	01:06:26.8	85.7	286.3	1.7	42	5.3		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/28 03:08:19.1 13.492N 91.707W 33.0N 5.0
 Near coast of Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:21:05.6	87.9	288.5	0.9	7	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
 2006/10/28 10:33:18.2 18.640S 178.350W 600.0
 Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 10:51:44.8	144.1	14.1					
IBBN	e PKPbc	Z 10:51:50.9	146.0	10.4					
CLZ	e PKPbc	Z 10:51:51.5	146.1	14.9					
CLL	e PKPbc	Z 10:51:51.4	146.1	19.5					
BRG	e PKPbc	Z 10:51:52.1	146.3	21.3					
GTTG	e PKPbc	Z 10:51:53.6	146.4	14.4					
MOX	e PKPbc	Z 10:51:53.7	147.0	17.5					
TANN	e PKPbc	Z 10:51:54.1	147.1	19.1					
WERD	e PKPbc	Z 10:51:54.3	147.1	18.8					
GUNZ	e PKPbc	Z 10:51:54.6	147.2	18.9					

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WERN	e	PKPbc	Z	10:51:54.6	147.2	19.0
MANZ	e	PKPbc	Z	10:51:55.6	147.6	18.7
ROTZ	e	PKPbc	Z	10:51:56.2	147.7	19.0
TNS	e	PKPbc	Z	10:51:56.6	148.0	12.2
GRA1	e	PKP	Z	10:51:56.8	148.0	17.3
WET	e	PKPbc	Z	10:51:56.8	148.2	20.5
GEC2	e	PKPbc	Z	10:51:57.3	148.3	22.1
WLF	e	PKPbc	Z	10:51:58.9	148.8	8.2
BFO	e	PKPbc	Z	10:52:01.1	149.8	12.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/28	13:55:31.3	45.862N	15.889E	10.0G			4.2	SZGRF
Northwestern Balkan Peninsula								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	13:56:23.8	3.3	152.8					3.9
	e Sn	N	13:57:02.7							
WET	e Pn	Z	13:56:30.4	3.9	147.1					3.9
	e Sn	N	13:57:14.2							
ROTZ	e Pn	Z	13:56:40.5	4.6	146.3					4.2
MANZ	e Pn	Z	13:56:43.6	4.8	147.0					4.2
	e Sn	E	13:57:37.2							
GRA1	e Pn	Z	13:56:45.7	4.9	138.9					4.5
	e Sn	E	13:57:42.2							
WERN	e Pn	Z	13:56:45.9	5.0	150.7					4.2
	e Sn	N	13:57:42.8							
GUNZ	e Pn	Z	13:56:47.2	5.1	150.8					
TANN	e Pn	Z	13:56:47.4	5.1	152.0					
WERD	e Pn	Z	13:56:48.0	5.2	151.1					
BRG	e Pn	Z	13:56:48.7	5.2	164.8					
	e Sn	N	13:57:45.1							
FBE	e Pn	Z	13:56:50.5	5.3	160.6					
	e Sn	N	13:57:50.5							
MOX	e Pn	Z	13:56:53.6	5.6	147.6					
	e Sn	N	13:57:55.7							
CLL	e Pn	Z	13:56:56.6	5.8	159.6					
	e Sn	N	13:58:02.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/29	07:30:28.0	20.160S	179.980E	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	PKPbc	Z	07:50:07.5	147.2	23.0				
BRG	e	PKPbc	Z	07:50:08.1	147.4	24.8				

FBE	e	PKPbc	Z	07:50:08.3	147.5	23.8
MOX	e	PKPbc	Z	07:50:10.0	148.2	21.0
TANN	e	PKPbc	Z	07:50:10.5	148.2	22.6
WERD	e	PKPbc	Z	07:50:10.4	148.2	22.3
GUNZ	e	PKPbc	Z	07:50:10.3	148.3	22.4
WERN	e	PKPbc	Z	07:50:11.0	148.3	22.6
MANZ	e	PKPbc	Z	07:50:11.9	148.7	22.3
ROTZ	e	PKPbc	Z	07:50:12.0	148.8	22.6
GRA1	e	PKPbc	Z	07:50:12.9	149.1	20.9
GEC2	e	PKPbc	Z	07:50:13.1	149.3	25.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/29	08:31:48.9	30.076N	141.533E	33.0N	5.6	5.4		SZGRF

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 08:44:26.9	86.0	40.7	2.8	422	6.1		
CLL	e P	Z 08:44:30.1	86.9	42.7	1.6	60	5.5		
FBE	e P	Z 08:44:31.3	87.0	42.9	1.5	68	5.6		
	e pP	Z 08:44:40.8							
CLZ	e P	Z 08:44:34.8	87.6	40.7	2.0	81	5.7		
TANN	e P	Z 08:44:37.2	87.8	42.2	2.1	63	5.6		
GUNZ	e P	Z 08:44:35.5	87.9	42.1	1.4	36	5.5		
WERN	e P	Z 08:44:35.5	87.9	42.2	1.5	53	5.6		
MOX	e P	Z 08:44:36.3	88.0	41.6	1.6	32	5.4		
MANZ	e P	Z 08:44:37.4	88.3	42.0	2.1	81	5.6		
ROTZ	e P	Z 08:44:38.4	88.4	42.0					
	e pP	Z 08:44:47.1							
WET	e P	Z 08:44:38.5	88.5	42.5	2.3	78	5.5		
GRA1	e P	Z 08:44:40.0	88.9	41.3	0.9	29	5.5		
	e pP	Z 08:44:50.0							
	e PP	Z 08:48:13.1							
	e L	Z 09:28:41.3			18.9	1475		5.4	
BUG	e P	Z 08:44:41.2	89.1	38.3	2.0	136	5.8		
	e pP	Z 08:44:51.0							
FUR	e P	Z 08:44:45.7	90.0	41.3	1.2	40	5.5		
WLF	e P	Z 08:44:50.6	91.0	37.4	1.6	82	5.8		
BFO	e P	Z 08:44:50.3	91.1	39.1	1.4	46	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/29	10:04:16.3	4.000N	126.400E	13.0				NEIC

Talau Islands, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 10:18:15.3	102.8	67.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/30	01:57:59.9	52.823N	163.776W	33.0N	4.7			SZGRF
South of Alaska								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:09:52.1	77.4	356.9	1.0	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/30	02:46:42.0	45.005N	82.286E	33.0N	4.6			SZGRF
Kazakhstan-Xinjiang border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:55:06.8	46.6	67.1	0.7	4	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/30	04:15:47.7	15.200S	70.500W	74.0G	4.8			NEIC
Southern Peru								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:29:07.4	96.3	253.9	0.9	3	4.8		
	e pP	Z 04:29:56.1							
	e PP	Z 04:33:03.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/10/30	04:29:18.3	6.639S	154.924W	35.0G				NEIC
Line Islands, Kiribati, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPdf	Z 04:48:16.4	133.2	339.8					
CLL	e PKPdf	Z 04:48:14.3	134.2	343.1					
BRG	e PKPdf	Z 04:48:14.1	134.8	344.3					
GRA1	e PKPdf	Z 04:48:17.7	135.4	340.2					
	e pPKPdf	Z 04:48:28.3							
BFO	e PKPdf	Z 04:48:14.5	136.0	335.7					
WET	e PKPdf	Z 04:48:19.7	136.3	342.3					
GEC2	e PKPdf	Z 04:48:17.7	136.7	343.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/10/30 21:39:56.4 48.794N 25.190W 33.0N 4.4 3.8 SZGRF
Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:45:04.4	23.6	281.9	1.5	20	4.4		
	e L	Z 21:53:56.5			21.2	343		3.8	

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/31 09:35:21.1 52.784N 169.201W 33.0N 5.0 SZGRF
Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z 09:46:58.5	74.9	358.1	0.8	19	5.2		
CLZ	e P	Z 09:47:01.5	75.4	359.7	1.1	28	5.2		
CLL	e P	Z 09:47:03.8	75.9	1.4	1.5	19	4.9		
FBE	e P	Z 09:47:06.7	76.3	1.6	1.2	16	5.0		
BRG	e P	Z 09:47:06.6	76.3	2.0	0.9	8	4.8		
MOX	e P	Z 09:47:08.1	76.6	0.5	1.4	20	5.1		
WERN	e P	Z 09:47:10.0	76.9	1.0	1.1	14	5.0		
TNS	e P	Z 09:47:10.5	77.0	358.5	1.3	14	4.9		
ROTZ	e P	Z 09:47:13.1	77.4	0.9	1.5	16	4.9		
GRA1	e P	Z 09:47:14.0	77.5	0.3					
WET	e P	Z 09:47:17.1	78.1	1.3	1.4	16	5.0		
GEC2	e P	Z 09:47:18.2	78.3	1.8	1.1	14	5.0		
BFO	e P	Z 09:47:20.8	78.9	358.5	1.1	18	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source
2006/10/31 09:55:10.6 2.970S 76.110W 33.0N 5.6 SZGRF
Peru-Ecuador border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 10:07:54.9	87.3	262.2	1.0	114	6.0		
BUG	e P	Z 10:07:58.8	88.2	263.0	1.0	73	6.0		
BFO	e P	Z 10:08:00.1	88.5	263.9	1.0	19	5.4		
IBBN	e P	Z 10:08:00.6	88.6	263.3	1.2	56	5.7		
TNS	e P	Z 10:08:01.6	88.8	263.9	1.1	46	5.6		
STU	e P	Z 10:08:03.5	89.1	264.5	0.7	43	5.8		
GTTG	e P	Z 10:08:07.7	89.9	265.1	0.9	18	5.3		
CLZ	e P	Z 10:08:08.2	90.2	265.4	1.1	32	5.5		
FUR	e P	Z 10:08:10.2	90.5	266.1	1.2	57	5.7		
GRA1	e P	Z 10:08:10.2	90.5	266.0	0.9	30	5.6		
MOX	e P	Z 10:08:11.3	90.9	266.4	1.8	61	5.6		
MANZ	e P	Z 10:08:13.3	91.1	266.7	1.1	23	5.4		
ROTZ	e P	Z 10:08:13.1	91.2	266.8	1.2	36	5.6		
WERD	e P	Z 10:08:13.1	91.3	266.9	1.1	26	5.5		

GUNZ	e P	Z	10:08:13.7	91.3	266.9	1.2	17	5.3
WERN	e P	Z	10:08:14.0	91.3	266.9	1.1	31	5.5
TANN	e P	Z	10:08:14.2	91.4	267.0	1.1	40	5.7
WET	e P	Z	10:08:14.7	91.6	267.3	1.5	50	5.6
CLL	e P	Z	10:08:15.5	91.8	267.5	1.2	34	5.5
FBE	e P	Z	10:08:17.1	92.0	267.7	1.1	46	5.7
GEC2	e P	Z	10:08:17.0	92.1	267.9			
RUE	e P	Z	10:08:18.0	92.3	268.1	0.7	24	5.6
BRG	e P	Z	10:08:18.4	92.3	268.2	1.0	35	5.6

Format description

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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