

## 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)

SEPTEMBER 2006      UPDATED    21.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
2006/09/01	06:34:54.6	33.730S	178.130W	33.0G				SZGRF
South of Kermadec Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPab	Z	06:55:31.8	160.7	29.0					
	e		06:55:48.2							
BRG	e PKPab	Z	06:55:32.5	160.7	31.8					
FBE	e PKPab	Z	06:55:33.2	160.9	30.4					
	e		06:55:49.7							
GTTG	e PKPab	Z	06:55:35.0	161.2	21.4					
	e		06:55:50.2							
TANN	e PKPab	Z	06:55:36.3	161.6	29.0					
WERD	e PKPab	Z	06:55:36.5	161.6	28.5					
MOX	e PKPab	Z	06:55:36.3	161.6	26.6					
	e		06:55:52.9							
GUNZ	e PKPdf	Z	06:54:54.6	161.7	28.7					
	e PKPab	Z	06:55:36.9							
WERN	e PKPab	Z	06:55:37.2	161.7	28.9					
	e		06:55:53.7							
MANZ	e PKPab	Z	06:55:38.7	162.1	28.7					
ROTZ	e PKPdf	Z	06:54:55.0	162.2	29.3					
	e PKPab	Z	06:55:39.6							
GEC2	e PKPdf	Z	06:54:55.0	162.5	34.6					
	e PKPab	Z	06:55:39.9							
WET	e PKPdf	Z	06:54:55.0	162.6	32.0					
	e PKPab	Z	06:55:41.0							
GRA1	e PKPab	Z	06:55:41.1	162.6	26.9					
	e		06:55:57.2							
TNS	e PKPab	Z	06:55:41.2	162.8	18.8					
WLF	e PKPab	Z	06:55:46.5	163.8	12.8					

FUR e PKPab Z 06:55:47.4 163.9 29.4  
 BFO e PKPab Z 06:55:49.3 164.6 20.7

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/01 10:18:53.6 6.800S 155.500E 53.0N NEIC  
 Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z	10:37:47.4	124.7	48.4					
	e PP	Z	10:39:27.9							
BSEG	e PKPdf	Z	10:37:48.5	125.1	43.9					
BRG	e PKPdf	Z	10:37:49.4	125.6	49.4					
	e PP	Z	10:39:35.4							
CLL	e Pdiff	Z	10:34:29.4	125.8	48.2					
	i PKPdf	+ Z	10:37:49.5			0.9	230			
	e pPKPdf	Z	10:38:03.7							
	e PP	Z	10:39:45.5							
	e PKSdf	N	10:41:20.0							
	e PPP	Z	10:42:29.3							
	e SKKSac	Z	10:46:32.9							
	e SKSP	Z	10:49:34.5							
	e PPS	Z	10:51:13.2							
	e PPPr	Z	10:54:47.3							
	e SS	Z	10:56:39.0							
	e SSS	E	11:01:20.6							
	e LQ	N	11:11:38.1							
	e L	Z	11:35:20.5			20.0	24758		6.9	
FBE	e PKPdf	Z	10:37:50.0	125.9	48.8					
	e pPKP	Z	10:38:04.1							
TANN	e PKPdf	Z	10:37:51.4	126.6	48.1					
	e pPKP	Z	10:38:05.3							
	e PP	Z	10:39:44.8							
WERD	e PKPdf	Z	10:37:51.2	126.7	47.9					
GUNZ	e PKPdf	Z	10:37:51.7	126.7	48.0					
WERN	e PKPdf	Z	10:37:51.6	126.8	48.1					
	e pPKPdf	Z	10:38:06.0							
MOX	e Pdiff	Z	10:34:33.1	126.9	47.0					
	e PKPdf	Z	10:37:51.7							
GTTG	e PKPdf	Z	10:37:52.1	127.0	44.7					
	e PP	Z	10:39:50.8							
GEC2	e Pdiff	Z	10:34:34.2	127.1	50.3					
	e PKPdf	Z	10:37:52.1							
MANZ	e PKPdf	Z	10:37:52.4	127.1	47.9					
	e PP	Z	10:39:48.5							
ROTZ	e Pdiff	Z	10:34:33.6	127.2	48.2					
	e PKPdf	Z	10:37:52.5							
	e PP	Z	10:39:49.1							

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

3

WET	e PKPdf	Z	10:37:52.6	127.3	49.3
UBBA	e Pdiff	Z	10:34:34.9	127.5	45.1
	e PKPdf	Z	10:37:52.9		
	e PP	Z	10:39:54.1		
GRA1	e Pdiff	Z	10:34:35.8	127.7	47.1
	e PKPdf	Z	10:37:53.3		
	e pPKPdf	Z	10:38:07.5		
BUG	e PKPdf	Z	10:37:54.2	128.2	41.7
	e PP	Z	10:39:54.2		
FUR	e PKPdf	Z	10:37:55.3	128.7	48.1
	e pPKPdf	Z	10:38:09.3		
	e PP	Z	10:39:58.5		
STU	e PKPdf	Z	10:37:56.5	129.3	45.4
WLF	e PKPdf	Z	10:37:58.4	130.0	41.4
BFO	e PKPdf	Z	10:37:57.5	130.0	44.7
	e PP	Z	10:40:06.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01	10:25:17.0	53.190N	159.220E	49.9	5.5			SZGRF
Near east coast of Kamchatka Peninsula, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	10:36:24.2	69.8	19.3	1.0	45	5.5		
RUE	e P	Z	10:36:29.1	70.5	21.1	1.1	93	5.8		
NRDL	e P	Z	10:36:33.3	71.2	19.0	1.2	23	5.2		
CLL	e P	Z	10:36:35.1	71.7	20.5	1.1	83	5.8		
BRG	e P	Z	10:36:36.5	71.9	21.0	1.2	35	5.4		
FBE	e P	Z	10:36:37.6	72.0	20.7	1.2	62	5.6		
GTTG	e P	Z	10:36:38.6	72.1	18.8	1.2	35	5.4		
MOX	e P	Z	10:36:41.1	72.6	19.7	1.1	35	5.4		
TANN	e P	Z	10:36:41.4	72.7	20.1					
WERD	e P	Z	10:36:41.3	72.7	20.0	1.2	45	5.5		
BUG	e P	Z	10:36:41.7	72.8	17.2	0.8	30	5.5		
GUNZ	e P	Z	10:36:42.1	72.8	20.0	1.4	64	5.6		
UBBA	e P	Z	10:36:42.0	72.8	18.7	1.5	69	5.6		
WERN	e P	Z	10:36:42.0	72.8	20.1	1.1	49	5.5		
MANZ	e P	Z	10:36:44.5	73.2	19.9	1.1	17	5.0		
ROTZ	e P	Z	10:36:45.4	73.3	19.9	1.5	67	5.5		
GRA1	e P	Z	10:36:47.8	73.6	19.3	1.5	119	5.7		
	e pP	Z	10:37:01.6							
TNS	e P	Z	10:36:47.1	73.7	17.7	1.4	51	5.4		
WET	e P	Z	10:36:48.0	73.8	20.2	1.4	59	5.4		
GEC2	e P	Z	10:36:48.5	73.9	20.7	1.5	44	5.3		
WLF	e P	Z	10:36:53.3	74.7	16.3	0.8	28	5.3		
STU	e P	Z	10:36:55.6	74.9	18.1	0.7	21	5.3		
FUR	e P	Z	10:36:55.9	75.1	19.2	1.1	57	5.5		
BFO	e P	Z	10:36:57.5	75.5	17.5	1.3	34	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01	12:04:21.8	54.050N	166.220W	73.2	5.8			SZGRF
Fox Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	12:15:39.8	72.0	357.9	1.0	127	6.0		
NRDL	e P	Z	12:15:49.0	73.4	357.8	1.2	116	5.8		
RUE	e P	Z	12:15:48.5	73.5	0.0	1.1	134	5.9		
GTTG	e P	Z	12:15:53.7	74.4	357.7	1.0	169	6.0		
BUG	e P	Z	12:15:53.4	74.4	356.0	1.0	120	5.9		
CLL	e P	Z	12:15:54.8	74.6	359.5	0.9	76	5.7		
FBE	e P	Z	12:15:57.6	75.0	359.7	1.2	133	5.8		
BRG	e P	Z	12:15:57.2	75.1	0.1	1.2	84	5.6		
UBBA	e P	Z	12:15:57.6	75.1	357.7	1.6	87	5.5		
MOX	e P	Z	12:15:59.0	75.3	358.7	0.9	100	5.9		
WERD	e P	Z	12:16:00.2	75.5	359.1	1.3	59	5.6		
TANN	e P	Z	12:16:00.6	75.5	359.2	1.3	73	5.6		
GUNZ	e P	Z	12:16:00.9	75.6	359.1	1.1	57	5.6		
TNS	e P	Z	12:16:01.0	75.6	356.8	1.0	79	5.8		
WERN	e P	Z	12:16:01.4	75.7	359.1	1.1	85	5.8		
MANZ	e P	Z	12:16:03.0	76.0	359.0	1.1	54	5.6		
WLF	e P	Z	12:16:03.9	76.1	355.4	1.0	115	5.9		
ROTZ	e P	Z	12:16:04.4	76.2	359.0	1.2	88	5.8		
GRA1	e P	Z	12:16:04.9	76.2	358.5	0.9	127	6.0		
	e pP	Z	12:16:24.4							
WET	e P	Z	12:16:08.0	76.8	359.5	1.3	79	5.7		
GEC2	e P	Z	12:16:09.4	77.1	360.0	1.0	59	5.7		
STU	e P	Z	12:16:09.2	77.1	357.2	0.9	82	5.9		
BFO	e P	Z	12:16:11.5	77.5	356.7	1.0	72	5.7		
FUR	e P	Z	12:16:13.2	77.8	358.5	1.2	153	6.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:43:15.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01	19:26:46.8	24.700S	168.500E	360.0N				GSRC
New Caledonia region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

5

BRG	e	PKPdf	Z	19:45:47.1	147.3	46.3
CLL	e	PKPdf	Z	19:45:47.3	147.5	44.5
FBE	e	PKPdf	Z	19:45:48.0	147.6	45.4
NRDL	e	PKPdf	Z	19:45:48.9	147.8	38.8
WERD	e	PKPdf	Z	19:45:47.7	148.4	44.4
GUNZ	e	PKPdf	Z	19:45:48.5	148.4	44.5
MOX	e	PKPdf	Z	19:45:48.1	148.5	43.1
GTTG	e	PKPdf	Z	19:45:50.1	148.5	39.6
GEC2	e	PKPdf	Z	19:45:48.9	148.8	48.4
GRA1	e	PKPdf	Z	19:45:49.6	149.4	43.6
WLF	e	PKPdf	Z	19:45:51.4	151.5	35.3
BFO	e	PKPdf	Z	19:45:54.7	151.7	40.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01	19:55:59.0	17.650S	172.790W	33.0N				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e	PKPbc	Z 20:15:32.0	145.1	4.8					
CLL	e	PKPbc	Z 20:15:35.0	146.0	9.9					
BRG	e	PKPbc	Z 20:15:36.0	146.3	11.6					
MOX	e	PKPbc	Z 20:15:37.3	146.8	7.7					
WERD	e	PKPbc	Z 20:15:37.9	146.9	8.9					
TANN	e	PKPbc	Z 20:15:37.8	147.0	9.2					
GUNZ	e	PKPbc	Z 20:15:38.4	147.0	9.0					
MANZ	e	PKPbc	Z 20:15:39.3	147.4	8.7					
ROTZ	e	PKPbc	Z 20:15:39.8	147.6	8.9					
GRA1	e	PKPbc	Z 20:15:40.5	147.8	7.2					
WET	e	PKPbc	Z 20:15:41.2	148.2	10.3					
GEC2	e	PKPbc	Z 20:15:41.5	148.4	11.9					
BFO	e	PKPbc	Z 20:15:44.2	149.3	2.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01	20:08:23.6	36.350N	87.140E	33.0N	4.6			SZGRF

Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e	P	Z 20:17:35.7	52.6	75.9	1.0	7	4.5		
CLL	e	P	Z 20:17:39.1	53.1	75.6	1.1	7	4.5		
GEC2	e	P	Z 20:17:41.3	53.3	74.3	1.2	11	4.6		
TANN	e	P	Z 20:17:43.8	53.7	74.6	1.0	4	4.4		
WET	e	P	Z 20:17:44.3	53.8	74.0	1.2	6	4.5		
WERN	e	P	Z 20:17:44.4	53.8	74.5	1.2	5	4.4		
WERD	e	P	Z 20:17:44.2	53.8	74.5	1.1	4	4.4		
GUNZ	e	P	Z 20:17:44.5	53.8	74.5	1.0	6	4.5		

ROTZ	e P	Z	20:17:46.4	54.0	74.0	1.6	10	4.6
BSEG	e P	Z	20:17:46.8	54.0	75.7	1.0	8	4.7
MOX	e P	Z	20:17:46.8	54.1	74.2			
NRDL	e P	Z	20:17:51.5	54.5	74.5			
GRA1	e P	Z	20:17:51.0	54.6	73.3	0.8	7	4.7
GTTG	e P	Z	20:17:52.4	54.9	73.8	0.7	7	4.8
UBBA	e P	Z	20:17:53.5	55.1	73.3	0.7	4	4.5
BUG	e P	Z	20:18:04.5	56.5	71.9	0.7	8	4.9
BFO	e P	Z	20:18:05.9	56.9	70.7	1.4	12	4.7
WLF	e P	Z	20:18:13.4	57.8	70.1	0.9	7	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/01	22:07:23.1	52.590N	158.500E	33.0N	5.0			SZGRF
Near east coast of Kamchatka Peninsula, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	22:18:35.5	70.2	19.9	1.1	23	5.2		
NRDL	e P	Z	22:18:44.7	71.6	19.6	0.9	17	5.2		
CLL	e P	Z	22:18:46.2	72.1	21.2	1.0	30	5.4		
BRG	e P	Z	22:18:47.5	72.3	21.7	0.8	5	4.7		
FBE	e P	Z	22:18:48.3	72.4	21.4	1.1	18	5.1		
MOX	e P	Z	22:18:52.1	73.1	20.3	0.7	13	5.2		
TANN	e P	Z	22:18:52.2	73.1	20.8	1.5	9	4.7		
WERD	e P	Z	22:18:52.5	73.1	20.7	1.0	13	5.0		
GUNZ	e P	Z	22:18:52.9	73.2	20.7	0.8	9	4.8		
BUG	e P	Z	22:18:52.8	73.2	17.8	0.9	25	5.2		
WERN	e P	Z	22:18:53.4	73.2	20.7	0.8	18	5.2		
UBBA	e P	Z	22:18:52.9	73.2	19.4	0.6	4	4.6		
MANZ	e P	Z	22:18:55.3	73.6	20.5	1.1	11	4.8		
ROTZ	e P	Z	22:18:56.5	73.7	20.6	0.8	10	4.9		
GRA1	e P	Z	22:18:58.4	74.0	20.0	1.0	32	5.3		
TNS	e P	Z	22:18:58.5	74.1	18.4	0.7	16	5.1		
WET	e P	Z	22:18:59.2	74.2	20.9	1.0	17	5.0		
GEC2	e P	Z	22:18:59.2	74.3	21.3	0.6	9	4.9		
STU	e P	Z	22:19:05.6	75.3	18.7	0.8	10	5.0		
FUR	e P	Z	22:19:06.4	75.5	19.9	0.6	12	5.2		
BFO	e P	Z	22:19:08.5	75.9	18.2	0.7	9	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/02	01:21:31.5	43.988N	7.418E	10.0G			4.3	SZGRF
Near south coast of France								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	01:22:29.7	3.7	208.4					4.5
	e Sn	N	01:23:14.4							



CLL	e	PKPdf	Z	02:17:03.1	136.9	4.5
MOX	e	PKPdf	Z	02:17:04.6	137.6	2.5
TANN	e	PKPdf	Z	02:17:05.1	137.8	3.8
MANZ	e	PKPdf	Z	02:17:05.8	138.3	3.3
GRA1	e	PKPdf	Z	02:17:06.1	138.6	2.0
GEC2	e	PKPdf	Z	02:17:06.2	139.3	5.8
STU	e	PKPdf	Z	02:17:08.4	139.5	358.9
BFO	e	PKPdf	Z	02:17:05.8	140.0	357.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03	04:26:28.9	21.990S	176.020W	33.0N		5.4		SZGRF
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 04:46:10.2	147.7	11.0				
NRDL	e	PKPbc	Z 04:46:14.4	149.1	11.1				
CLL	e	PKPbc	Z 04:46:15.8	149.9	16.8				
BRG	e	PKPdf	Z 04:46:11.2	150.1	18.8				
	e	PKPbc	Z 04:46:17.0						
BUG	e	PKPbc	Z 04:46:16.7	150.4	6.2				
MOX	e	PKPdf	Z 04:46:12.0	150.7	14.6				
	e	PKPbc	Z 04:46:18.0						
UBBA	e	PKPbc	Z 04:46:17.9	150.8	11.5				
TANN	e	PKPdf	Z 04:46:12.5	150.8	16.3				
	e	PKPbc	Z 04:46:18.4						
MANZ	e	PKPdf	Z 04:46:13.4	151.3	15.8				
	e	PKPbc	Z 04:46:19.4						
ROTZ	e	PKPdf	Z 04:46:13.8	151.5	16.1				
	e	PKPbc	Z 04:46:19.7						
GRA1	e	PKPbc	Z 04:46:20.5	151.7	14.3				
	e	PP	Z 04:49:57.1						
	e	L	Z 05:57:27.0			20.2	548	5.4	
WET	e	PKPdf	Z 04:46:14.2	151.9	17.8				
	e	PKPbc	Z 04:46:20.4						
GEC2	e	PKPdf	Z 04:46:14.2	152.1	19.5				
	e	PKPbc	Z 04:46:21.5						
WLF	e	PKPbc	Z 04:46:21.3	152.3	4.3				
	e	PKPab	Z 04:46:34.3						
STU	e	PKPbc	Z 04:46:22.3	152.9	10.7				
FUR	e	PKPbc	Z 04:46:23.5	153.2	15.1				
BFO	e	PKPbc	Z 04:46:23.5	153.4	9.0				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03	10:15:30.0	22.560S	176.500W	367.9				SZGRF
South of Fiji Islands								



Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z	10:34:38.1	150.3	17.9					
BRG	e PKPbc	Z	10:34:38.7	150.5	19.9					
GTTG	e PKPbc	Z	10:34:38.8	150.6	12.2					
FBE	e PKPbc	Z	10:34:38.8	150.6	18.8					
BUG	e PKPbc	Z	10:34:39.1	151.0	7.2					
MOX	e PKPdf	Z	10:34:34.7	151.2	15.7					
	e PKPbc	Z	10:34:40.3							
WERD	e PKPdf	Z	10:34:34.9	151.3	17.1					
	e PKPbc	Z	10:34:40.3							
	e pPKPbc	Z	10:36:09.1							
TANN	e PKPbc	Z	10:34:40.4	151.3	17.4					
	e pPKPbc	Z	10:36:10.0							
GUNZ	e PKPbc	Z	10:34:41.0	151.4	17.2					
WERN	e PKPbc	Z	10:34:40.9	151.4	17.3					
MANZ	e PKPdf	Z	10:34:35.3	151.8	17.0					
	e PKPbc	Z	10:34:41.9							
	e pPKPbc	Z	10:36:13.6							
ROTZ	e PKPbc	Z	10:34:41.6	151.9	17.3					
GRA1	e PKPdf	Z	10:34:35.6	152.2	15.4					
	e PKPbc	Z	10:34:42.3							
WET	e PKPbc	Z	10:34:42.4	152.4	19.0					
GEC2	e PKPbc	Z	10:34:43.1	152.5	20.7					
	e pPKPbc	Z	10:36:14.4							
BFO	e PKPdf	Z	10:34:39.4	153.9	10.2					
	e PKPbc	Z	10:34:46.6							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/03 10:40:36.6 17.600S 173.530W 33.0G  
 Tonga Islands SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	11:00:09.8	145.0	6.1					
CLL	e PKPbc	Z	11:00:11.2	145.9	11.2					
BUG	e PKPbc	Z	11:00:11.5	146.2	1.4					
BRG	e PKPbc	Z	11:00:13.0	146.2	12.9					
FBE	e PKPbc	Z	11:00:13.6	146.2	11.9					
MOX	e PKPbc	Z	11:00:15.1	146.7	9.0					
WERD	e PKPbc	Z	11:00:15.5	146.8	10.2					
TANN	e PKPbc	Z	11:00:15.6	146.8	10.5					
GUNZ	e PKPbc	Z	11:00:15.7	146.9	10.3					
WERN	e PKPbc	Z	11:00:15.3	147.0	10.4					
MANZ	e PKPbc	Z	11:00:16.8	147.3	10.0					
TNS	e PKPbc	Z	11:00:17.7	147.3	3.5					
ROTZ	e PKPbc	Z	11:00:17.4	147.5	10.2					
GRA1	e PKP	Z	11:00:17.9	147.7	8.5					

WET	e	PKPbc	Z	11:00:18.2	148.0	11.6
GEC2	e	PKPbc	Z	11:00:18.3	148.2	13.2
BFO	e	PKPbc	Z	11:00:21.9	149.2	3.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03	14:38:51.8	29.938N	129.075E	33.0N	4.7			SZGRF

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:51:15.0	83.2	50.5	1.5	7	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03	16:20:40.7	0.001S	95.722E	50.3	5.3			SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 16:33:10.1	84.8	96.0	1.6	60	5.6		
BRG	e P	Z 16:33:09.3	84.8	96.4	1.6	39	5.4		
FBE	e P	Z 16:33:11.8	85.2	95.9	1.7	65	5.6		
	e pP	Z 16:33:26.6							
WET	e P	Z 16:33:13.0	85.3	95.4	1.4	26	5.3		
	e pP	Z 16:33:27.3							
CLL	e P	Z 16:33:12.5	85.5	95.7	1.5	18	5.1		
TANN	e P	Z 16:33:14.2	85.7	95.2	1.3	12	4.8		
WERN	e P	Z 16:33:14.2	85.8	95.1	1.6	16	4.9		
GUNZ	e P	Z 16:33:15.2	85.8	95.1	1.2	17	5.0		
	e pP	Z 16:33:29.8							
WERD	e P	Z 16:33:14.9	85.8	95.1	1.4	16	4.9		
ROTZ	e P	Z 16:33:14.9	85.8	95.0	1.7	37	5.2		
	e pP	Z 16:33:30.0							
MANZ	e P	Z 16:33:16.1	85.9	94.9	1.4	31	5.3		
MOX	e P	Z 16:33:17.0	86.3	94.6	2.0	68	5.4		
GRA1	e P	Z 16:33:18.4	86.4	94.2	0.9	12	5.0		
	e pP	Z 16:33:32.5							
BSEG	e P	Z 16:33:21.9	87.3	93.7	1.3	42	5.4		
	e pP	Z 16:33:36.8							
NRDL	e P	Z 16:33:23.5	87.3	93.5	1.4	63	5.5		
GTTG	e P	Z 16:33:22.9	87.4	93.3					
TNS	e P	Z 16:33:27.5	88.3	92.1	1.4	32	5.5		
BFO	e P	Z 16:33:26.3	88.3	91.9	1.4	10	5.0		
BUG	e P	Z 16:33:30.5	89.0	91.2	1.5	68	5.6		
WLF	e P	Z 16:33:34.1	89.7	90.3	1.9	94	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 16:40:00.5							
CLL	e PKP	Z 16:40:00.1							
FBE	e PKP	Z 16:40:01.1							
GEC2	e PKP	Z 16:40:06.1							
GUNZ	e PKP	Z 16:40:03.4							
MANZ	e PKP	Z 16:40:04.7							
ROTZ	e PKP	Z 16:40:05.0							
TANN	e PKP	Z 16:40:02.5							
WERN	e PKP	Z 16:40:02.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03	20:51:20.3	22.670S	170.610E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z 21:10:57.7	146.5	41.4					
CLL	e PKPbc	Z 21:10:57.6	146.5	39.6					
FBE	e PKPbc	Z 21:10:58.1	146.7	40.5					
TANN	e PKPbc	Z 21:11:00.5	147.4	39.6					
WERD	e PKPbc	Z 21:11:00.6	147.5	39.4					
GUNZ	e PKPbc	Z 21:11:00.4	147.5	39.5					
WERN	e PKPbc	Z 21:11:01.2	147.6	39.6					
MOX	e PKPbc	Z 21:11:00.7	147.6	38.1					
MANZ	e PKPbc	Z 21:11:02.1	147.9	39.5					
ROTZ	e PKPbc	Z 21:11:02.3	148.0	39.9					
GEC2	e PKPbc	Z 21:11:02.4	148.1	43.2					
WET	e PKPbc	Z 21:11:02.1	148.2	41.6					
GRA1	e PKPbc	Z 21:11:03.2	148.5	38.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:59:26.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/03	22:57:29.6	24.439S	178.963E	591.1				SZGRF
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPdf	Z 23:16:12.4	150.7	21.1					
	e PKPbc	Z 23:16:19.3							
CLL	e PKPdf	Z 23:16:13.1	151.1	27.1					
	e PKPbc	Z 23:16:19.3			0.8	361			
	e PKPab	Z 23:16:28.7							
	e pPKPdf	Z 23:18:29.2							
	e pPKPbc	Z 23:18:34.1							
	e sPKPab	Z 23:19:31.4							
	e PP	Z 23:19:58.6							
	e sPP	Z 23:22:59.3							
	e SKKSac	N 23:25:56.5							
	e SKSP	Z 23:29:20.6							
	e SPP	Z 23:32:02.6							
	e PPS	E 23:33:07.5							
	e SS	E 23:38:35.3							
	BRG	e PKPdf	Z 23:16:12.5	151.2	29.2				
e PKPbc		Z 23:16:19.3							
FBE	e PKPdf	Z 23:16:13.0	151.3	28.1					
	e PKPbc	Z 23:16:19.9							
	e PKPab	Z 23:16:30.3							
GTTG	e PKPbc	Z 23:16:20.4	151.6	21.4					
	e PKPab	Z 23:16:31.2							
	e pPKPbc	Z 23:18:36.2							
	e PP	Z 23:20:01.8							
TANN	e PKPdf	Z 23:16:13.8	152.0	26.9					
	e PKPbc	Z 23:16:21.4							
	e PKPab	Z 23:16:32.9							
WERD	e PKPdf	Z 23:16:13.1	152.0	26.6					
	e PKPbc	Z 23:16:21.6							
	e PKPab	Z 23:16:32.9							
MOX	e PKPdf	Z 23:16:13.7	152.0	25.2					
	e PKPbc	Z 23:16:21.2							
	e PKPab	Z 23:16:32.8							
	e PP	Z 23:20:04.3							
GUNZ	e PKPdf	Z 23:16:13.6	152.1	26.7					
	e PKPbc	Z 23:16:21.7							
	e PKPab	Z 23:16:33.0							
WERN	e PKPdf	Z 23:16:14.8	152.1	26.9					
	e PKPbc	Z 23:16:22.1							
	e PKPab	Z 23:16:33.2							
	e pPKPbc	Z 23:18:37.9							
BUG	e PKPbc	Z 23:16:22.0	152.3	16.4					
	e PP	Z 23:20:04.9							
UBBA	e PKPdf	Z 23:16:14.4	152.3	22.0					
	e PKPbc	Z 23:16:21.4							
MANZ	e PKPdf	Z 23:16:14.7	152.5	26.6					
	e PKPbc	Z 23:16:22.6							
	e PKPab	Z 23:16:35.3							

	e pPKPbc	Z	23:18:38.6		
ROTZ	e PKPdf	Z	23:16:13.2	152.7	27.0
	e PKPbc	Z	23:16:22.7		
	e PKPab	Z	23:16:36.1		
	e pPKPbc	Z	23:18:38.7		
	e PP	Z	23:20:05.7		
GEC2	e PKPdf	Z	23:16:14.3	153.0	30.7
	e PKPbc	Z	23:16:23.3		
	e PKPab	Z	23:16:37.2		
	e pPKPbc	Z	23:18:39.6		
WET	e PKPdf	Z	23:16:14.6	153.0	28.8
	e PKPbc	Z	23:16:23.6		
	e PKPab	Z	23:16:37.6		
GRA1	e PKPdf	Z	23:16:14.7	153.0	25.2
	e PKPbc	Z	23:16:23.9		
	e PKPab	Z	23:16:37.6		
	e pPKPbc	Z	23:18:39.2		
TNS	e PKPbc	Z	23:16:24.0	153.2	19.4
WLF	e PKPdf	Z	23:16:16.6	154.2	15.2
	e PKPbc	Z	23:16:26.5		
	e PKPab	Z	23:16:42.1		
	e PP	Z	23:20:16.2		
FUR	e PKPdf	Z	23:16:16.9	154.4	26.7
	e PKPbc	Z	23:16:26.4		
	e PKPab	Z	23:16:43.4		
	e pPKPbc	Z	23:18:42.6		
STU	e PKPdf	Z	23:16:17.3	154.4	22.0
	e PKPbc	Z	23:16:26.4		
	e PKPab	Z	23:16:43.0		
	e pPKPbc	Z	23:18:42.6		
BFO	e PKPdf	Z	23:16:17.5	155.0	20.5
	e PKPbc	Z	23:16:27.7		
	e PKPab	Z	23:16:45.5		
	e PP	Z	23:20:20.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/04	04:47:13.1	4.400S	143.000E	101.0N				NEIC
New Guinea, Papua New Guinea								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	05:05:46.4	117.1	60.4					
CLL	e PKPdf	Z	05:05:46.7	117.4	59.4					
FBE	e PKPdf	Z	05:05:47.0	117.4	59.9					
TANN	e PKPdf	Z	05:05:48.8	118.2	59.3					
WERD	e PKPdf	Z	05:05:48.5	118.2	59.1					
GEC2	e PKPdf	Z	05:05:48.4	118.3	61.2					
GUNZ	e PKPdf	Z	05:05:48.9	118.3	59.2					

WERN	e	PKPdf	Z	05:05:48.7	118.3	59.2
MANZ	e	PKPdf	Z	05:05:49.3	118.6	59.1
GRA1	e	PKPdf	Z	05:05:50.3	119.2	58.4
BFO	e	PKPdf	Z	05:05:54.5	121.6	56.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/04	13:38:46.0	0.665N	95.682E	33.3	4.7			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:51:23.0	85.9	93.8	0.7	5	4.7		
	e pP	Z 13:51:32.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/04	17:41:11.8	23.000S	179.000W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 18:00:54.7	148.3	16.5					
NRDL	e PKPbc	Z 18:00:58.7	149.7	16.8					
CLL	e PKPbc	Z 18:00:59.7	150.2	22.7					
BRG	e PKPbc	Z 18:01:00.5	150.4	24.6					
FBE	e PKPbc	Z 18:01:00.9	150.5	23.6					
MOX	e PKPbc	Z 18:01:02.0	151.1	20.6					
TANN	e PKPbc	Z 18:01:02.6	151.2	22.3					
WERD	e PKPbc	Z 18:01:02.1	151.2	22.0					
GUNZ	e PKPbc	Z 18:01:02.8	151.2	22.1					
WERN	e PKPbc	Z 18:01:02.9	151.3	22.2					
UBBA	e PKPbc	Z 18:01:02.4	151.3	17.5					
MANZ	e PKPbc	Z 18:01:03.7	151.6	21.9					
ROTZ	e PKPbc	Z 18:01:04.2	151.8	22.3					
GRA1	e PKPbc	Z 18:01:04.8	152.1	20.5					
WET	e PKPbc	Z 18:01:04.6	152.2	24.0					
GEC2	e PKPbc	Z 18:01:05.0	152.3	25.8					
WLF	e PKPbc	Z 18:01:07.0	153.0	10.5					
BFO	e PKPbc	Z 18:01:08.6	154.0	15.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/05	02:48:40.2	23.500S	179.800E	550.0N				GSRC

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:07:47.1	152.3	23.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/05	04:53: 3.1	7.770N	126.180E	130.3				SZGRF
Mindanao, Philippine Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	05:06:22.7	97.6	67.7					
	e sP	Z	05:07:11.3							
	e PP	Z	05:10:23.8							
FBE	e Pdiff	Z	05:06:24.0	97.9	67.2					
	e sPdiff	Z	05:07:13.7							
	e PP	Z	05:10:26.3							
CLL	e Pdiff	Z	05:06:23.9	97.9	66.9	1.9	55			
	e pPdiff	Z	05:06:57.2							
	e sPdiff	Z	05:07:13.4							
	e PP	Z	05:10:28.2							
	e sPP	Z	05:11:04.2							
	e SKSac	E	05:16:49.8							
	e Sdiff	N	05:17:42.2							
	e SP	Z	05:19:04.7							
	e PPS	E	05:20:10.8							
	e sSS	E	05:25:21.0							
	e SSS	E	05:28:21.5							
	e SSSS	E	05:31:32.2							
	e LR	Z	05:40:50.8							
	e L	Z	05:52:51.5			22.0	538			
BSEG	e Pdiff	Z	05:06:25.4	98.3	64.3					
GEC2	e Pdiff	Z	05:06:26.9	98.5	67.8					
TANN	e Pdiff	Z	05:06:27.6	98.6	66.6					
	e PP	Z	05:10:30.2							
WERD	e Pdiff	Z	05:06:27.7	98.7	66.4					
	e sPdiff	Z	05:07:15.2							
	e PP	Z	05:10:31.0							
GUNZ	e Pdiff	Z	05:06:28.0	98.7	66.5					
	e sPdiff	Z	05:07:15.4							
	e PP	Z	05:10:31.4							
WERN	e Pdiff	Z	05:06:28.0	98.7	66.5					
	e PP	Z	05:10:31.3							
WET	e Pdiff	Z	05:06:28.9	98.9	67.1					
	e PP	Z	05:10:33.5							
MANZ	e Pdiff	Z	05:06:29.6	99.0	66.3					
MOX	e Pdiff	Z	05:06:29.2	99.0	65.8					
	e sPdiff	Z	05:07:18.5							
ROTZ	e Pdiff	Z	05:06:29.7	99.0	66.4					
	e sPdiff	Z	05:07:16.2							
	e PP	Z	05:10:34.7							
NRDL	e Pdiff	Z	05:06:29.6	99.1	64.3					

	e PP	Z	05:10:34.3		
GT TG	e Pdiff	Z	05:06:31.6	99.6	64.3
	e PP	Z	05:10:39.2		
GRA1	e Pdiff	Z	05:06:32.5	99.6	65.7
UBBA	e Pdiff	Z	05:06:33.2	99.9	64.5
IBBN	e Pdiff	Z	05:06:36.1	100.4	62.4
TNS	e Pdiff	Z	05:06:38.8	101.0	63.3
BFO	e Pdiff	Z	05:06:41.9	101.9	63.6
	e PP	Z	05:10:55.0		
WLF	e Pdiff	Z	05:06:46.1	102.6	61.5
	e sPdiff	Z	05:07:30.5		
	e PP	Z	05:10:59.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:53:17.5							
	e	09:53:35.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/06	05:00:30.2	61.310N	167.110E	33.0	5.4	4.7		SZGRF
Eastern Siberia, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 05:10:58.5	63.3	12.2	1.1	20	5.2		
	e PcP	Z 05:11:34.4							
	e S	T 05:19:34.1							
NRDL	e P	Z 05:11:08.7	64.7	12.0	1.3	25	5.3		
	e S	T 05:19:48.5							
IBBN	e P	Z 05:11:10.8	65.2	10.7	1.5	90	5.8		
	e S	T 05:19:56.1							
CLL	e P	Z 05:11:12.2	65.5	13.3	1.2	40	5.5		
	e S	T 05:19:55.2							
BRG	e P	Z 05:11:14.3	65.8	13.7	1.7	39	5.4		
	e PcP	Z 05:11:44.1							
	e S	T 05:20:01.4							
FBE	e P	Z 05:11:14.7	65.8	13.5	1.3	48	5.6		
	e PcP	Z 05:11:43.2							
BUG	e P	Z 05:11:16.6	66.1	10.4	1.7	57	5.5		
	e S	T 05:20:05.2							
MOX	e P	Z 05:11:18.0	66.3	12.6	1.2	29	5.4		
	e S	T 05:20:08.4							
UBBA	e P	Z 05:11:18.1	66.4	11.8	1.8	45	5.4		
	e S	T 05:20:09.0							



WERD	e P	Z	05:11:18.8	66.4	12.9	1.1	38	5.5	
	e PcP	Z	05:11:46.0						
TANN	e P	Z	05:11:18.9	66.4	13.0	1.4	40	5.5	
	e S	T	05:20:07.8						
GUNZ	e P	Z	05:11:19.5	66.5	12.9	1.4	44	5.5	
WERN	e P	Z	05:11:19.9	66.6	12.9	1.6	61	5.6	
MANZ	e P	Z	05:11:21.8	66.9	12.7	1.3	26	5.3	
	e S	T	05:20:14.7						
ROTZ	e P	Z	05:11:23.4	67.1	12.8	1.5	41	5.4	
	e S	T	05:20:17.3						
TNS	e P	Z	05:11:23.3	67.2	10.9	1.2	17	5.2	
	e S	T	05:20:19.1						
GRA1	e P	Z	05:11:24.7	67.3	12.3	1.1	34	5.5	
	e S	T	05:20:19.9						
	e L	Z	05:46:55.2			20.3	431		4.7
WET	e P	Z	05:11:26.6	67.6	13.0	1.3	48	5.6	
	e S	T	05:20:24.6						
GEC2	e P	Z	05:11:27.3	67.8	13.4	1.2	27	5.3	
	e PcP	Z	05:11:54.6						
	e S	T	05:20:24.0						
WLF	e P	Z	05:11:28.3	68.0	9.7	1.5	40	5.4	
	e S	T	05:20:30.0						
BFO	e P	Z	05:11:34.6	69.0	10.7	1.2	19	5.1	
	e PcP	Z	05:11:56.1						

Date 2006/09/06 Origin Time 06:35:53.9 Lat 58.162N Long 149.813W Depth 33.0N mb 4.7 Ms ML Source SZGRF  
Gulf of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:47:08.9	71.0	349.6	0.6	4	4.7		

Date 2006/09/06 Origin Time 07:51:48.9 Lat 40.350N Long 76.460E Depth 33.0N mb 5.0 Ms 4.0 ML Source SZGRF  
Kyrgyzstan-Xinjiang border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 07:59:51.1	43.6	78.6	1.3	22	4.7		
CLL	e P	Z 07:59:54.9	44.1	78.5	1.0	19	4.8		
GEC2	e P	Z 07:59:56.6	44.2	76.4	1.0	33	5.0		
TANN	e P	Z 07:59:59.2	44.6	77.2	1.0	14	4.8		
WET	e P	Z 08:00:00.1	44.6	76.2	1.1	18	4.9		
ROTZ	e P	Z 08:00:01.7	44.9	76.4	1.3	12	4.7		
MANZ	e P	Z 08:00:02.4	44.9	76.6	1.2	12	4.7		
MOX	e P	Z 08:00:03.1	45.1	76.9	0.9	13	4.8		

BSEG	e P	Z	08:00:04.4	45.2	79.3	0.9	21	5.1	
GRA1	e P	Z	08:00:07.8	45.6	75.8	0.9	43	5.5	
	e L	Z	08:21:07.4			18.5	161		4.0
NRDL	e P	Z	08:00:07.7	45.6	77.7	1.1	29	5.2	
FUR	e P	Z	08:00:10.4	45.9	74.4	0.7	44	5.6	
UBBA	e P	Z	08:00:10.1	46.0	76.1	0.9	6	4.6	
STU	e P	Z	08:00:18.8	47.1	73.7	0.8	28	5.4	
TNS	e P	Z	08:00:19.4	47.1	74.6	0.8	8	4.9	
BUG	e P	Z	08:00:23.3	47.5	74.9	0.6	11	5.2	
BFO	e P	Z	08:00:23.8	47.7	72.8	0.9	11	5.0	
WLF	e P	Z	08:00:31.9	48.7	72.7	0.9	18	5.1	

Date 2006/09/06  
 Origin Time 11:42:42.1  
 Lat 60.800S  
 Long 34.000W  
 Depth 10.0N  
 mb  
 Ms 5.1  
 ML  
 Source NEIC  
 Scotia Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e SS	R	12:18:10.3	114.3	201.1					
STU	e SS	R	12:18:19.8	115.0	201.6					
TNS	e SS	R	12:18:34.9	116.1	201.5					
GEC2	e SS	R	12:18:33.7	116.2	203.7					
WET	e SP	Z	12:12:18.1	116.2	203.4					
	e SS	R	12:18:35.3							
GRA1	e PP	Z	12:02:29.1	116.3	202.7					
	e SP	Z	12:12:17.7							
	e SS	R	12:18:37.3							
	e L	Z	12:46:28.6			19.4	458		5.1	
ROTZ	e SP	Z	12:12:21.5	116.6	203.2					
	e SS	R	12:18:40.5							
MANZ	e SP	Z	12:12:24.1	116.8	203.2					
	e SS	R	12:18:43.7							
BUG	e SS	R	12:18:47.5	117.0	201.2					
UBBA	e SP	Z	12:12:26.6	117.1	202.4					
	e SS	R	12:18:47.6							
MOX	e SP	Z	12:12:26.8	117.3	203.1					
	e SS	R	12:18:50.9							
TANN	e SP	Z	12:12:25.8	117.3	203.5					
	e SS	R	12:18:50.7							
BRG	e SP	Z	12:12:36.4	118.1	204.2					
	e SS	R	12:19:01.3							
CLL	e SP	Z	12:12:34.7	118.3	203.9					
	e SS	R	12:19:03.9							
NRDL	e SP	Z	12:12:38.8	118.6	202.8					
	e SS	R	12:19:12.1							
BSEG	e SP	Z	12:12:51.6	120.0	203.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/06	18:06:32.7	35.800N	140.970E	33.0N	5.3	4.8		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	18:18:44.2	80.7	38.6	1.4	45	5.3		
BRG	e P	Z	18:18:49.0	81.6	40.9	1.1	12	4.9		
CLL	e P	Z	18:18:49.0	81.7	40.3	1.3	40	5.4		
FBE	e P	Z	18:18:50.3	81.8	40.5	1.2	38	5.4		
NRDL	e P	Z	18:18:51.4	81.9	38.3	1.3	16	5.0		
TANN	e P	Z	18:18:54.2	82.6	39.8	1.4	14	5.0		
WERD	e P	Z	18:18:54.3	82.6	39.7	1.6	27	5.2		
GUNZ	e P	Z	18:18:54.8	82.7	39.7	1.3	24	5.2		
GTTG	e P	Z	18:18:55.1	82.7	38.1	1.2	21	5.2		
WERN	e P	Z	18:18:55.0	82.7	39.7	1.3	24	5.3		
MOX	e P	Z	18:18:55.0	82.8	39.2	1.6	27	5.2		
IBBN	e P	Z	18:18:55.6	82.9	36.6	0.7	21	5.5		
MANZ	e P	Z	18:18:56.8	83.1	39.5	1.3	12	5.0		
ROTZ	e P	Z	18:18:57.8	83.2	39.6	1.4	41	5.5		
UBBA	e P	Z	18:18:57.3	83.3	38.1	1.6	23	5.2		
GEC2	e P	Z	18:18:57.4	83.3	40.5	1.3	15	5.1		
WET	e P	Z	18:18:58.5	83.4	40.0	1.4	23	5.2		
GRA1	e P	Z	18:19:00.1	83.7	38.9	1.3	63	5.7		
	e L	Z	19:00:40.4			21.0	404		4.8	
BUG	e P	Z	18:19:00.5	83.8	36.1					
TNS	e P	Z	18:19:03.1	84.3	36.9	1.3	21	5.2		
FUR	e P	Z	18:19:05.9	84.8	38.8	1.1	39	5.5		
STU	e P	Z	18:19:07.2	85.2	37.4	1.6	84	5.6		
WLF	e P	Z	18:19:10.0	85.6	35.2	1.4	44	5.4		
BFO	e P	Z	18:19:10.5	85.9	36.7	1.2	34	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/06	20:08:1.0	18.940S	177.490W	574.1				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	20:26:31.7	144.5	12.8					
	e		20:26:55.0							
IBBN	e PKPbc	Z	20:26:37.8	146.4	9.0					
CLL	e PKPbc	Z	20:26:38.0	146.6	18.2					
	e		20:27:01.2							
BRG	e PKPbc	Z	20:26:38.8	146.8	20.0					
	e		20:27:02.0							
	e pPKPbc	Z	20:28:50.0							
BUG	e PKPbc	Z	20:26:40.1	147.3	8.3					
MOX	e PKPdf	Z	20:26:37.8	147.5	16.2					

	e	PKPbc	Z	20:26:40.4					
	e	pPKPbc	Z	20:28:51.6					
TANN	e	PKPdf	Z	20:26:37.1	147.5	17.7			
	e	PKPbc	Z	20:26:40.6					
	e			20:27:04.1					
UBBA	e	PKPbc	Z	20:26:40.5	147.6	13.3			
MANZ	e	PKPdf	Z	20:26:38.4	148.0	17.3			
	e	PKPbc	Z	20:26:42.5					
ROTZ	e	PKPbc	Z	20:26:42.8	148.2	17.6			
	e	pPKPbc	Z	20:28:53.3					
TNS	e	PKPbc	Z	20:26:42.7	148.4	10.7			
GRA1	e	PKPbc	Z	20:26:43.2	148.5	15.9			
	e	PKPab	Z	20:26:48.2					
	e	pPKPbc	Z	20:28:54.8					
WET	e	PKPdf	Z	20:26:39.9	148.7	19.1			
	e	PKPbc	Z	20:26:43.7					
GEC2	e	PKPbc	Z	20:26:44.0	148.8	20.7			
	e	pPKPbc	Z	20:28:54.6					
WLF	e	PKPbc	Z	20:26:45.1	149.1	6.7			
	e	PKPab	Z	20:26:50.9					
	e			20:27:09.0					
	e	pPKPbc	Z	20:28:56.0					
STU	e	PKPdf	Z	20:26:41.5	149.7	12.6			
	e	PKPbc	Z	20:26:46.4					
FUR	e	PKPbc	Z	20:26:46.8	149.9	16.7			
	e			20:27:10.2					
BFO	e	PKPdf	Z	20:26:41.8	150.2	11.1			
	e	PKPbc	Z	20:26:47.4					
	e	PKPab	Z	20:26:54.6					
	e			20:27:10.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/07	01:57:38.7	35.450N	139.282E	33.0N	4.9			SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:10:02.3	83.3	40.2	1.0	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/07	21:22:58.2	22.890S	179.070W	618.2				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:41:35.1	148.2	16.5					
NRDL	e PKPab	Z 21:41:44.4	149.6	16.9					

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

21

CLL	e PKPbc	Z	21:41:40.2	150.1	22.7
	e PKPab	Z	21:41:45.8		
	e pPKPbc	Z	21:43:59.8		
BRG	e PKPbc	Z	21:41:40.8	150.2	24.7
	e PKPab	Z	21:41:46.7		
MOX	e PKPbc	Z	21:41:41.6	151.0	20.6
	e PKPab	Z	21:41:49.7		
TANN	e PKPbc	Z	21:41:42.7	151.0	22.4
	e PKPab	Z	21:41:50.1		
	e pPKPbc	Z	21:44:06.3		
UBBA	e PKPbc	Z	21:41:42.8	151.2	17.5
MANZ	e PKPbc	Z	21:41:44.1	151.5	22.0
	e PKPab	Z	21:41:52.2		
	e pPKPbc	Z	21:44:04.2		
ROTZ	e PKPbc	Z	21:41:44.3	151.7	22.3
	e PKPab	Z	21:41:53.1		
GRA1	e PKPbc	Z	21:41:44.2	152.0	20.5
	e PKPab	Z	21:41:54.3		
TNS	e PKPbc	Z	21:41:45.0	152.0	14.9
	e PKPab	Z	21:41:53.9		
WET	e PKPbc	Z	21:41:44.6	152.1	24.1
	e PKPab	Z	21:41:54.9		
	e pPKPbc	Z	21:44:07.3		
GEC2	e PKPbc	Z	21:41:44.8	152.1	25.8
	e PKPab	Z	21:41:54.6		
	e pPKPbc	Z	21:44:04.4		
WLF	e PKPbc	Z	21:41:47.1	152.9	10.6
	e PKPab	Z	21:41:57.6		
FUR	e PKPbc	Z	21:41:47.9	153.4	21.7
	e PKPab	Z	21:42:00.2		
BFO	e PKPbc	Z	21:41:48.7	153.9	15.6
	e PKPab	Z	21:42:01.6		
	e pPKPbc	Z	21:44:09.0		

Date	Origin	Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/08									

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 03:25:40.8							
FBE	e P	Z 03:25:37.7							
GEC2	e P	Z 03:25:14.1							
GRA1	e P	Z 03:25:24.1							
GUNZ	e P	Z 03:25:31.4							
MANZ	e P	Z 03:25:26.8							
MOX	e P	Z 03:25:34.3							
ROTZ	e P	Z 03:25:24.0							
TANN	e P	Z 03:25:31.4							

WERD	e P	Z	03:25:32.4
WERN	e P	Z	03:25:30.1
WET	e P	Z	03:25:17.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/08	09:16:41.1	10.024N	92.873E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z 09:28:23.5	75.9	90.9					
GRA1	e P	Z 09:28:31.0	77.0	89.8	1.1	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/08	14:11:32.0	18.580S	174.800W	138.7				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 14:30:54.8	145.9	8.3					
IBBN	e PKPbc	Z 14:30:55.4	146.2	4.4					
	e pPKPbc	Z 14:31:31.4							
CLL	e PKPbc	Z 14:30:56.5	146.7	13.6					
GTTG	e PKPbc	Z 14:30:56.7	146.8	8.3					
	e pPKPbc	Z 14:31:32.9							
BRG	e PKPbc	Z 14:30:57.4	147.0	15.3					
FBE	e PKPbc	Z 14:30:57.7	147.0	14.3					
BUG	e PKPbc	Z 14:30:57.8	147.1	3.6					
	e pPKPbc	Z 14:31:33.6							
MOX	e PKPbc	Z 14:30:59.1	147.5	11.4					
UBBA	e pPKPbc	Z 14:31:35.1	147.5	8.5					
WERD	e PKPbc	Z 14:30:59.4	147.6	12.7					
TANN	e PKPdf	Z 14:30:57.5	147.6	12.9					
	e PKPbc	Z 14:30:59.7							
GUNZ	e PKPbc	Z 14:30:59.7	147.7	12.7					
WERN	e PKPbc	Z 14:31:00.0	147.8	12.8					
MANZ	e PKPdf	Z 14:30:58.4	148.1	12.5					
	e PKPbc	Z 14:31:01.0							
	e pPKPbc	Z 14:31:36.5							
TNS	e PKPdf	Z 14:30:58.5	148.3	5.9					
	e PKPbc	Z 14:31:01.1							
	e PKPab	Z 14:31:04.2							
ROTZ	e PKPdf	Z 14:30:58.6	148.3	12.7					
	e PKPbc	Z 14:31:01.7							
GRA1	e PKPbc	Z 14:31:02.3	148.5	11.0					
	e pPKPbc	Z 14:31:38.8							
WET	e PKPbc	Z 14:31:02.8	148.8	14.2					

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

23

	e	pPKPbc	Z	14:31:38.8							
WLF	e	PKPbc	Z	14:31:03.3	148.9	1.7					
GEC2	e	PKPdf	Z	14:30:59.7	149.0	15.8					
	e	PKPbc	Z	14:31:03.2							
	e	pPKPbc	Z	14:31:39.8							
STU	e	PKPdf	Z	14:31:01.1	149.6	7.5					
	e	PKPbc	Z	14:31:05.0							
FUR	e	PKPdf	Z	14:31:00.5	150.0	11.6					
	e	PKPab	Z	14:31:11.0							
BFO	e	PKPdf	Z	14:30:59.8	150.1	6.0					
	e	PKPbc	Z	14:31:05.9							
	e	PKPab	Z	14:31:11.1							
	e	pPKPbc	Z	14:31:42.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/08	14:50:28.0	38.006N	74.587E	33.0N	4.6			SZGRF
Tajikistan-Xinjiang border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:58:46.3	45.7	79.6	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/08	21:42:43.0	21.450S	171.780W	33.0N				SZGRF
Tonga Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 22:02:23.8	147.5	3.6					
NRDL	e PKPbc	Z 22:02:27.8	148.9	3.4					
GTTG	e PKPbc	Z 22:02:30.1	149.9	3.2					
CLL	e PKPbc	Z 22:02:30.0	149.9	8.9					
BRG	e PKPbc	Z 22:02:31.0	150.2	10.8					
FBE	e PKPbc	Z 22:02:31.2	150.3	9.7					
MOX	e PKPbc	Z 22:02:31.7	150.7	6.5					
WERD	e PKPbc	Z 22:02:32.8	150.8	7.8					
TANN	e PKPbc	Z 22:02:32.7	150.8	8.1					
GUNZ	e PKPbc	Z 22:02:33.3	150.9	7.9					
WERN	e PKPbc	Z 22:02:32.9	151.0	8.0					
GRA1	e PKPbc	Z 22:02:34.7	151.7	5.9					
GEC2	e PKPbc	Z 22:02:36.0	152.3	11.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/08	22:39:13.5	36.380N	27.756E	31.0G				THE
Dodecanese Islands, Greece								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	22:42:55.0	16.1	135.3					
WET	e P	Z	22:43:01.9	16.7	134.1					
ROTZ	e P	Z	22:43:10.7	17.5	134.1					
BRG	e P	Z	22:43:10.8	17.5	140.4					
MANZ	e P	Z	22:43:11.7	17.7	134.4					
FBE	e P	Z	22:43:14.2	17.8	139.1					
TANN	e P	Z	22:43:13.4	17.8	136.1					
GUNZ	e P	Z	22:43:15.5	17.8	135.7					
GRA1	e P	Z	22:43:15.1	17.9	131.8					
WERD	e P	Z	22:43:15.0	17.9	135.8					
CLL	e P	Z	22:43:19.3	18.3	139.1					
STU	e P	Z	22:43:21.2	18.4	125.5					
MOX	e P	Z	22:43:20.8	18.4	134.7					
BFO	e P	Z	22:43:24.2	18.6	122.8					
NEUB	e P	Z	22:43:24.4	18.7	136.3					
TNS	e P	Z	22:43:34.2	19.6	127.5					
NRDL	e P	Z	22:43:40.9	20.3	135.4					
WLF	e P	Z	22:43:48.6	20.5	122.2					
BSEG	e P	Z	22:43:51.6	21.3	138.4					

Date 2006/09/09  
 Origin Time 04:13:11.6  
 Flores Sea  
 Lat 7.156S  
 Long 120.072E  
 Depth 566.0G  
 mb  
 Ms  
 ML  
 Source NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e Pdiff	Z	04:26:23.1	105.6	81.4					
	e PP	Z	04:30:51.3							
BRG	e Pdiff	Z	04:26:21.5	105.7	81.9					
	e PP	Z	04:30:53.3							
GEC2	e Pdiff	Z	04:26:26.4	106.1	82.3					
	e PP	Z	04:30:55.3							
CLL	e Pdiff	Z	04:26:25.8	106.2	81.0	1.6	36			
	e sPdiff	Z	04:29:24.8							
	e PKiKP	Z	04:30:32.8							
	e PP	Z	04:30:56.4							
	e pPP	Z	04:32:48.3							
	e sPP	Z	04:33:45.3							
	e SKSac	E	04:36:05.9							
	e SKKSac	N	04:36:58.3							
	e Sdiff	N	04:37:39.7							
	e SP	Z	04:39:19.8							
	e sSKSac	E	04:40:11.4							
	e sPS	E	04:42:59.2							
	e SS	E	04:45:10.0							
	e SKKSdf	N	04:48:30.2							



	e SSS	E	04:49:33.0						
	e (SSSS)	Z	04:52:51.5						
	e L	Z	05:15:59.5			22.0	1170		
WET	e Pdiff	Z	04:26:25.6	106.6	81.6				
	e PP	Z	04:30:59.3						
TANN	e Pdiff	Z	04:26:25.9	106.7	80.9				
	e PP	Z	04:30:59.6						
ROTZ	e Pdiff	Z	04:26:27.1	107.0	80.9				
	e PP	Z	04:31:02.2						
MANZ	e Pdiff	Z	04:26:30.6	107.0	80.7				
	e PP	Z	04:31:01.7						
MOX	e Pdiff	Z	04:26:31.7	107.2	80.1				
	e PP	Z	04:31:03.7						
BSEG	e Pdiff	Z	04:26:28.8	107.3	78.0				
	e PP	Z	04:31:06.3						
GRA1	e Pdiff	Z	04:26:33.8	107.6	80.1				
	e PP	Z	04:31:06.6						
NRDL	e Pdiff	Z	04:26:30.6	107.8	78.3				
	e PP	Z	04:31:09.3						
FUR	e Pdiff	Z	04:26:34.3	107.8	80.6				
GTTG	e Pdiff	Z	04:26:34.8	108.0	78.5				
	e PP	Z	04:31:09.4						
UBBA	e Pdiff	Z	04:26:32.8	108.2	78.8				
	e PP	Z	04:31:09.9						
STU	e Pdiff	Z	04:26:39.7	109.1	78.8				
	e PP	Z	04:31:15.1						
TNS	e Pdiff	Z	04:26:37.2	109.2	77.7				
	e PP	Z	04:31:18.8						
BUG	e Pdiff	Z	04:26:43.4	109.7	76.3				
	e PP	Z	04:31:22.1						
BFO	e Pdiff	Z	04:26:39.3	109.7	78.2				
	e PP	Z	04:31:23.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	04:58:13.3	31.860N	35.130E	33.0N	4.6			SZGRF

Dead Sea region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 05:03:20.6	23.4	128.6	1.4	20	4.5		
WET	e P	Z 05:03:25.6	24.0	127.8	1.6	16	4.3		
BRG	e P	Z 05:03:30.8	24.6	132.5	1.3	24	4.8		
ROTZ	e P	Z 05:03:32.5	24.7	127.8	1.8	38	4.8		
FBE	e P	Z 05:03:34.1	24.9	131.6	1.9	30	4.7		
MANZ	e P	Z 05:03:35.2	24.9	128.0	1.5	24	4.7		
TANN	e P	Z 05:03:35.3	25.0	129.3	1.6	21	4.6		
GUNZ	e P	Z 05:03:35.9	25.0	129.0	1.6	30	4.8		
WERD	e P	Z 05:03:36.3	25.1	129.1	2.0	28	4.6		

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Thu Apr 23 08:38:25 2020

26

GRA1	e P	Z	05:03:36.3	25.2	126.1	1.8	28	4.7
CLL	e P	Z	05:03:38.8	25.3	131.6	1.1	13	4.6
MOX	e P	Z	05:03:40.5	25.6	128.3	1.0	26	4.8
BFO	e P	Z	05:03:45.2	26.1	119.4	1.5	24	4.6
GTTG	e P	Z	05:03:53.4	26.9	127.2	1.2	12	4.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	05:05:49.5	1.040N	98.660E	14.0	5.3			SZGRF

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	05:18:28.9	85.9	93.4	1.7	38	5.3		
GEC2	e P	Z	05:18:29.3	85.9	93.1	1.1	25	5.2		
RUE	e P	Z	05:18:29.8	86.1	93.4	0.9	64	5.8		
FBE	e P	Z	05:18:30.8	86.2	93.0	1.7	50	5.4		
WET	e P	Z	05:18:31.8	86.5	92.5	1.2	22	5.1		
CLL	e P	Z	05:18:31.5	86.5	92.7	1.5	42	5.4		
TANN	e P	Z	05:18:33.4	86.8	92.3	1.3	14	4.9		
WERN	e P	Z	05:18:33.8	86.8	92.2	1.4	18	5.0		
GUNZ	e P	Z	05:18:33.9	86.9	92.2	1.3	19	5.1		
WERD	e P	Z	05:18:33.8	86.9	92.2	1.4	18	5.0		
ROTZ	e P	Z	05:18:34.5	86.9	92.0	1.1	14	5.0		
MANZ	e P	Z	05:18:35.0	87.0	92.0	1.2	32	5.3		
MOX	e P	Z	05:18:36.1	87.3	91.6	1.3	23	5.2		
FUR	e P	Z	05:18:36.4	87.5	91.3	1.2	28	5.3		
GRA1	e P	Z	05:18:37.5	87.5	91.3	1.2	32	5.5		
	e pP	Z	05:18:41.6							
BSEG	e P	Z	05:18:40.2	88.2	90.7	1.1	44	5.7		
UBBA	e P	Z	05:18:40.9	88.3	90.4	1.7	38	5.4		
GTTG	e P	Z	05:18:41.0	88.4	90.4	1.2	53	5.7		
STU	e P	Z	05:18:43.3	88.9	89.7	1.5	33	5.3		
TNS	e P	Z	05:18:45.9	89.3	89.2	1.1	42	5.6		
BFO	e P	Z	05:18:45.8	89.4	89.1	1.6	33	5.3		
IBBN	e P	Z	05:18:47.5	89.7	88.7	1.1	48	5.6		
BUG	e P	Z	05:18:49.1	90.1	88.3	1.0	26	5.4		
WLF	e P	Z	05:18:53.1	90.8	87.4	1.3	28	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	05:58:56.2	36.347N	13.094W	33.0G	4.3			SZGRF

Azores-Cape St. Vincent Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
UBBA	e P	Z	06:03:56.8	22.0	237.7	1.4	8			
GRA1	e P	Z	06:03:48.7	22.1	242.0	1.1	14	4.3		
ROTZ	e P	Z	06:03:55.0	22.7	243.3					

MANZ	e P	Z	06:03:56.0	22.7	242.7	1.1	11
WET	e P	Z	06:03:56.8	22.8	245.6	1.3	21
GEC2	e P	Z	06:03:59.7	23.2	247.4	1.8	24

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	07:48: 7.0	22.220S	178.760W	625.4				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	08:06:41.9	147.5	15.8					
	e PKPab	Z	08:06:46.2							
RUE	e PKPbc	Z	08:06:43.6	148.2	22.5					
	e PKPab	Z	08:06:49.2							
IBBN	e PKPbc	Z	08:06:47.1	149.5	12.0					
	e PKPab	Z	08:06:54.6							
CLL	e PKPbc	Z	08:06:47.0	149.5	21.8					
	e PKPab	Z	08:06:54.2							
BRG	e PKPdf	Z	08:06:42.4	149.7	23.8					
	e PKPbc	Z	08:06:47.5							
	e PKPab	Z	08:06:55.6							
FBE	e PKPbc	Z	08:06:47.9	149.8	22.7					
	e PKPab	Z	08:06:55.9							
GTTG	e PKPbc	Z	08:06:48.1	149.9	16.3					
	e PKPab	Z	08:06:56.4							
BUG	e PKPbc	Z	08:06:49.0	150.4	11.4					
	e PKPab	Z	08:06:58.3							
MOX	e PKPbc	Z	08:06:49.1	150.4	19.8					
	e PKPab	Z	08:06:58.1							
TANN	e PKPdf	Z	08:06:43.4	150.5	21.4					
	e PKPbc	Z	08:06:49.3							
	e PKPab	Z	08:06:58.5							
WERD	e PKPbc	Z	08:06:49.3	150.5	21.1					
	e PKPab	Z	08:06:58.5							
GUNZ	e PKPbc	Z	08:06:49.6	150.5	21.2					
	e PKPab	Z	08:06:58.9							
	e pPKPbc	Z	08:09:12.1							
UBBA	e PKPbc	Z	08:06:49.3	150.6	16.7					
	e PKPab	Z	08:06:58.7							
WERN	e PKPbc	Z	08:06:49.6	150.6	21.4					
	e PKPab	Z	08:06:59.1							
MANZ	e PKPbc	Z	08:06:50.7	150.9	21.1					
	e pPKPbc	Z	08:09:12.9							
ROTZ	e PKPbc	Z	08:06:50.8	151.1	21.4					
	e PKPab	Z	08:07:01.5							
GRA1	e PKPab	Z	08:07:03.1	151.4	19.6					
TNS	e PKPdf	Z	08:06:45.0	151.4	14.1					
	e PKPbc	Z	08:06:51.5							

	e PKPab	Z	08:07:02.5					
WET	e PKPbc	Z	08:06:51.9	151.5	23.1			
	e PKPab	Z	08:07:03.1					
GEC2	e PKPdf	Z	08:06:45.0	151.6	24.8			
	e PKPbc	Z	08:06:51.4					
	e PKPab	Z	08:07:03.5					
WLF	e PKPbc	Z	08:06:53.8	152.3	9.8			
	e PKPab	Z	08:07:07.2					
STU	e PKPdf	Z	08:06:46.9	152.7	16.2			
	e PKPbc	Z	08:06:54.4					
FUR	e PKPab	Z	08:07:09.1	152.8	20.7			
BFO	e PKPbc	Z	08:06:55.5	153.3	14.7			
	e PKPab	Z	08:07:10.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	10:22:54.3	23.750N	121.461E	33.0N	4.7			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:35:22.3	84.1	59.7	1.2	6	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	10:36: 8.2	38.929N	142.693E	33.0N	4.5			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:48:23.2	81.6	36.1	0.8	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	12:08: 8.2	51.177N	179.844W	33.0N	4.6			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:20:07.6	78.7	7.0	1.3	8	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	12:21:54.9	24.530N	64.774E	32.9	4.9			SZGRF

Off coast of Pakistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:30:32.7	48.2	101.1	1.1	10	4.9		

e pP                    Z 12:30:41.5                    1.1                    10

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	18:40:41.0	16.397N	49.053W	33.0N	4.6			SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:50:34.1	58.5	257.8	1.7	10	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/09	22:50:40.6	18.970S	173.020W	33.0N				SZGRF

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 23:10:12.9	144.9	5.5					
RUE	e PKPbc	Z 23:10:16.4	146.1	11.6					
IBBN	e PKPbc	Z 23:10:18.4	146.7	1.3					
CLL	e PKPbc	Z 23:10:20.2	147.3	10.6					
GTTG	e PKPbc	Z 23:10:20.4	147.3	5.2					
BRG	e PKPbc	Z 23:10:20.9	147.6	12.4					
FBE	e PKPbc	Z 23:10:21.6	147.7	11.3					
MOX	e PKPbc	Z 23:10:22.6	148.1	8.3					
WERD	e PKPbc	Z 23:10:23.0	148.2	9.6					
TANN	e PKPbc	Z 23:10:23.3	148.3	9.9					
GUNZ	e PKPbc	Z 23:10:23.6	148.3	9.7					
WERN	e PKPbc	Z 23:10:24.4	148.4	9.8					
MANZ	e PKPbc	Z 23:10:24.7	148.7	9.4					
ROTZ	e PKPbc	Z 23:10:25.1	148.9	9.6					
GRA1	e PKPbc	Z 23:10:25.9	149.1	7.8					
WET	e PKPbc	Z 23:10:26.2	149.5	11.0					
GEC2	e PKPbc	Z 23:10:26.7	149.6	12.6					
STU	e PKPbc	Z 23:10:28.4	150.1	4.2					
FUR	e PKPbc	Z 23:10:29.2	150.6	8.3					
BFO	e PKPbc	Z 23:10:29.0	150.6	2.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/10	02:59:18.9	31.695S	179.861E	344.0G				NEIC

Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 03:19:02.3	156.5	22.8					
CLL	e PKPdf	Z 03:19:09.4	158.1	31.3					
BRG	e PKPdf	Z 03:19:10.4	158.2	33.8					

FBE	e	PKPdf	Z	03:19:10.6	158.3	32.5
IBBN	e	PKPdf	Z	03:19:11.4	158.6	18.7
GTTG	e	PKPdf	Z	03:19:12.6	158.8	24.4
TANN	e	PKPdf	Z	03:19:13.9	159.1	31.3
WERD	e	PKPdf	Z	03:19:14.1	159.1	30.9
MOX	e	PKPdf	Z	03:19:14.1	159.1	29.1
GUNZ	e	PKPdf	Z	03:19:14.8	159.2	31.1
WERN	e	PKPdf	Z	03:19:15.4	159.2	31.3
MANZ	e	PKPdf	Z	03:19:16.9	159.6	31.1
ROTZ	e	PKPdf	Z	03:19:17.2	159.7	31.6
GEC2	e	PKPdf	Z	03:19:18.3	159.9	36.4
WET	e	PKPdf	Z	03:19:18.5	160.0	34.1
GRA1	e	PKPdf	Z	03:19:19.3	160.1	29.5
TNS	e	PKPdf	Z	03:19:19.8	160.4	22.3
FUR	e	PKPdf	Z	03:19:24.9	161.4	31.9
STU	e	PKPdf	Z	03:19:25.0	161.5	25.8
BFO	e	PKPdf	Z	03:19:27.6	162.2	24.2

Date 2006/09/10  
Greece

Origin Time 04:40:52.5

Lat 38.175N

Long 22.841E

Depth 5.0G

mb

Ms

ML

Source THE

Sta GRA1

Phase e P

Time Z 04:44:21.3

Dist 14.2

BAz 139.8

T[s]

A[nm]

mb

MS

ML

Date 2006/09/10  
Southern Iran

Origin Time 08:57:47.8

Lat 28.443N

Long 55.006E

Depth 33.0N

mb 4.2

Ms

ML

Source SZGRF

Sta GRA1

Phase e P

Time Z 09:05:13.9

Dist 39.3

BAz 106.1

T[s] 0.9

A[nm] 5

mb 4.2

MS

ML

Date 2006/09/10  
Vancouver Island, Canada, region

Origin Time 11:14:52.7

Lat 49.800N

Long 127.810W

Depth 33.0N

mb 4.4

Ms

ML

Source SZGRF

Sta GRA1

Phase e P

Time Z 11:26:28.3

Dist 74.5

BAz 334.0

T[s] 1.6

A[nm] 7

mb 4.4

MS

ML

Date 2006/09/10

Origin Time 13:17:41.4

Lat 21.870S

Long 173.830W

Depth 33.0N

mb

Ms

ML

Source SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 13:37:22.9	147.8	7.2					
CLL	e	PKPbc	Z 13:37:28.5	150.1	12.8					
BRG	e	PKPbc	Z 13:37:29.3	150.4	14.7					
FBE	e	PKPbc	Z 13:37:30.1	150.4	13.6					
BUG	e	PKPbc	Z 13:37:29.7	150.4	2.1					
UBBA	e	PKPbc	Z 13:37:30.6	150.9	7.3					
MOX	e	PKPbc	Z 13:37:30.8	150.9	10.4					
WERD	e	PKPbc	Z 13:37:31.6	151.0	11.8					
TANN	e	PKPbc	Z 13:37:31.2	151.0	12.1					
GUNZ	e	PKPbc	Z 13:37:31.2	151.1	11.9					
WERN	e	PKPbc	Z 13:37:32.0	151.2	12.0					
MANZ	e	PKPbc	Z 13:37:32.6	151.5	11.6					
ROTZ	e	PKPbc	Z 13:37:32.8	151.7	11.9					
GRA1	e	PKPbc	Z 13:37:33.5	151.9	10.0					
WET	e	PKPbc	Z 13:37:34.1	152.2	13.4					
GEC2	e	PKPbc	Z 13:37:34.2	152.4	15.2					
FUR	e	PKPbc	Z 13:37:37.2	153.4	10.6					
BFO	e	PKPbc	Z 13:37:36.8	153.5	4.5					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/10 14:56:16.6 26.250N 85.000W 44.1 5.8 5.7  
 Gulf of Mexico SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
HLG	e	P	Z 15:07:30.3	70.6	288.3	1.0	220	6.2		
WLF	e	P	Z 15:07:32.2	71.0	288.5	0.8	52	5.7		
BUG	e	P	Z 15:07:32.3	71.1	288.7	0.4	62	6.1		
IBBN	e	P	Z 15:07:32.5	71.1	288.8					
BSEG	e	P	Z 15:07:38.0	72.0	290.1	0.9	124	6.1		
TNS	e	P	Z 15:07:39.3	72.2	289.9	0.8	99	6.0		
NRDL	e	P	Z 15:07:40.5	72.4	290.4	0.9	110	6.0		
GTTG	e	P	Z 15:07:41.9	72.7	290.6	0.8	168	6.2		
BFO	e	P	Z 15:07:42.4	72.8	290.4	0.9	57	5.7		
UBBA	e	P	Z 15:07:43.5	72.9	290.8	0.6	10	5.1		
STU	e	P	Z 15:07:44.8	73.2	290.9	0.8	85	5.9		
RGN	e	P	Z 15:07:46.5	73.4	292.2	1.0	102	5.9		
MOX	e	P	Z 15:07:49.4	74.0	292.0	0.9	87	5.9		
GRA1	e	P	Z 15:07:50.5	74.1	292.0	0.9	48	5.6		
	e		15:08:02.8							
	e	PP	Z 15:10:35.9							
	e	S	T 15:17:23.5							
	e	L	Z 15:38:49.0			20.6	3648		5.7	
WERD	e	P	Z 15:07:52.3	74.4	292.6	1.1	62	5.7		
GUNZ	e	P	Z 15:07:52.6	74.5	292.6	0.9	82	5.8		

RUE	e P	Z	15:07:52.5	74.5	293.1	0.9	56	5.6		
MANZ	e P	Z	15:07:52.8	74.5	292.5	0.9	56	5.6		
CLL	e P	Z	15:07:52.4	74.5	292.8	0.7	91	6.0		
	e PP	Z	15:10:46.9							
	e S	E	15:17:30.8							
	e SP	Z	15:18:07.2							
	e PPS	E	15:18:28.5							
	e SS	E	15:22:34.1							
	e (SSS)	E	15:25:47.7							
	e (SSSS)	N	15:27:53.9							
	e LR	Z	15:31:55.6							
	e L	Z	15:38:00.1			22.0	2605		5.5	
WERN	e P	Z	15:07:53.1	74.5	292.7	1.3	97	5.7		
TANN	e P	Z	15:07:53.1	74.5	292.7	0.9	54	5.6		
ROTZ	e P	Z	15:07:53.9	74.6	292.7	0.9	43	5.5		
FUR	e P	Z	15:07:53.9	74.7	292.4	0.8	137	6.0		
FBE	e P	Z	15:07:54.9	74.9	293.2	0.9	159	6.1		
BRG	e P	Z	15:07:56.9	75.2	293.6	0.9	81	5.8		
WET	e P	Z	15:07:57.7	75.3	293.3	1.0	122	5.9		
GEC2	e P	Z	15:08:01.0	75.9	293.9	0.9	58	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/10	17:58:10.5	1.404N	96.699E	42.4	4.3			SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:10:48.0	86.0	92.5	1.0	2	4.3		
	e pP	Z 18:11:00.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/11	00:49:0.5	28.775N	138.726E	33.0N	4.4			SZGRF

Bonin Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:01:51.2	88.7	44.1	1.1	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/11	02:23:39.2	41.310N	48.570E	33.0N	4.7	3.6		SZGRF

Eastern Caucasus

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 02:29:04.6	25.5	93.9	0.9	22	4.8		
BRG	e P	Z 02:29:05.5	25.6	98.4	0.7	15	4.7		



WET	e P	Z	02:29:08.9	26.1	93.9	0.7	3	4.1	
CLL	e P	Z	02:29:11.1	26.2	98.4	0.8	20	4.8	
TANN	e P	Z	02:29:13.4	26.4	96.1	0.9	12	4.6	
ROTZ	e P	Z	02:29:14.3	26.5	94.5	1.1	6	4.3	
MANZ	e P	Z	02:29:15.1	26.6	94.9				
MOX	e P	Z	02:29:18.2	27.0	95.8	0.8	18	4.8	
FUR	e P	Z	02:29:19.5	27.1	90.6	0.8	26	5.0	
GRA1	e P	Z	02:29:20.3	27.2	93.6	0.9	12	4.6	
	e L	Z	02:40:33.4			21.9	164		3.6
UBBA	e P	Z	02:29:27.6	28.0	94.7	0.9	10	4.6	
NRDL	e P	Z	02:29:28.0	28.1	97.9	1.5	13	4.6	
BSEG	e P	Z	02:29:29.3	28.3	100.7	1.3	26	4.9	
STU	e P	Z	02:29:32.0	28.5	90.2	0.9	28	5.1	
TNS	e P	Z	02:29:36.6	29.0	92.3	1.0	9	4.6	
BFO	e P	Z	02:29:36.2	29.0	88.8	1.1	9	4.5	
WLF	e P	Z	02:29:50.3	30.4	89.5	1.1	12	4.8	

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/11 09:20:45.2 55.930N 142.760E 33.0N 5.2 SZGRF  
 Sea of Okhotsk

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 09:31:14.6	63.4	27.5	1.3	19	5.2		
NRDL	e P	Z 09:31:23.0	64.8	27.1	1.4	22	5.2		
CLL	e P	Z 09:31:24.2	65.0	28.4	1.2	35	5.4		
BRG	e P	Z 09:31:24.9	65.1	28.8					
TANN	e P	Z 09:31:30.7	66.0	27.9	1.4	13	5.0		
MOX	e P	Z 09:31:30.9	66.0	27.5	1.5	27	5.3		
UBBA	e P	Z 09:31:32.7	66.3	26.7	1.8	33	5.3		
MANZ	e P	Z 09:31:34.0	66.4	27.6					
BUG	e P	Z 09:31:34.0	66.5	25.4					
ROTZ	e P	Z 09:31:35.2	66.6	27.6	1.4	18	5.1		
WET	e P	Z 09:31:37.4	66.9	27.9	1.0	15	5.2		
GEC2	e P	Z 09:31:36.6	67.0	28.2	1.3	10	4.9		
GRA1	e P	Z 09:31:37.7	67.0	27.1	0.7	16	5.3		
TNS	e P	Z 09:31:39.5	67.3	25.8	1.4	24	5.2		
BFO	e P	Z 09:31:49.6	69.0	25.4	1.5	20	5.1		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/11 12:47:14.2 46.220N 28.420W 33.0N 5.1 SZGRF  
 Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 12:52:19.5	23.2	274.8	1.3	73	5.1		
BUG	e P	Z 12:52:26.6	23.8	271.5	1.2	70	5.2		

IBBN	e P	Z	12:52:28.4	24.1	269.9	1.4	104	5.4
BFO	e P	Z	12:52:34.2	24.8	279.0	1.7	52	4.9
STU	e P	Z	12:52:39.9	25.3	278.6	1.1	79	5.2
NRDL	e P	Z	12:52:41.8	25.5	271.4	1.1	81	5.3
UBBA	e P	Z	12:52:41.5	25.6	274.8			
BSEG	e P	Z	12:52:42.9	25.7	268.5	1.3	92	5.4
GRA1	e P	Z	12:52:49.8	26.5	277.8	1.1	55	5.2
	e L	Z	13:01:15.0			18.5	910	
MOX	e P	Z	12:52:51.0	26.6	276.2	1.4	26	4.8
FUR	e P	Z	12:52:53.5	26.7	280.9	0.8	30	5.2
MANZ	e P	Z	12:52:55.1	27.0	277.8	1.3	75	5.4
ROTZ	e P	Z	12:52:55.5	27.1	278.3	1.2	17	4.7
TANN	e P	Z	12:52:55.6	27.2	277.2	1.2	31	5.0
CLL	e P	Z	12:52:58.3	27.4	275.8	1.1	16	4.8
WET	e P	Z	12:53:00.1	27.6	279.8	1.0	11	4.6
BRG	e P	Z	12:53:03.9	28.0	277.2	1.5	35	5.0
GEC2	e P	Z	12:53:05.5	28.2	280.8	1.1	19	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/11	14:01:16.9	32.589N	60.881E	33.0N	4.2			SZGRF

Northern and central Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:08:50.6	40.2	96.0	0.8	5	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/11	14:05:0.3	28.644N	131.623E	30.2	4.8			SZGRF

Southeast of Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:17:35.4	85.5	49.4	1.0	8	4.8		
	e pP	Z 14:17:44.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/11	15:04:11.0	44.643N	7.714E	10.0G			3.6	SZGRF

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z 15:04:59.5	3.0	210.4					4.0
	e Sn	E 15:05:33.5							
BFO	e Pn	Z 15:05:06.9	3.7	186.8					3.4
	e Sn	E 15:05:47.7							
WTTA	e Pn	Z 15:05:10.1	3.8	227.6					3.5

	e Sn	E	15:05:53.8					
STU	e Sn	E	15:06:01.8	4.3	194.3			4.1
KBA	e Pn	Z	15:05:20.4	4.6	240.2			3.2
WLF	e Pn	Z	15:05:26.8	5.1	167.5			
	e Sn	N	15:06:22.8					
MOA	e Pn	Z	15:05:32.6	5.5	237.1			
GRA1	e Sn	N	15:06:32.7	5.6	206.6			
TNS	e Pn	Z	15:05:33.0	5.6	185.4			
	e Sn	N	15:06:32.8					
WET	e Pn	Z	15:05:33.6	5.7	220.0			
	e Sn	N	15:06:34.9					
GEC2	e Pn	Z	15:05:36.1	5.9	226.5			
	e Sn	N	15:06:38.8					
ARSA	e Pn	Z	15:05:38.3	6.0	247.2			
	e Sn	E	15:06:42.5					
MOX	e Sn	E	15:06:55.9	6.5	205.1			
TANN	e Pn	Z	15:05:46.1	6.6	210.8			
	e Sn	E	15:06:55.9					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/11 18:12:25.8 35.720N 78.200E 33.0N 5.6 5.2 Eastern Kashmir SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 18:20:59.3	47.5	82.6	1.4	141	5.9		
	e PcP	Z 18:22:27.7							
	e S	R 18:27:53.1							
GEC2	e P	Z 18:21:02.7	48.0	80.6	1.3	77	5.7		
	e S	R 18:28:00.1							
CLL	e P	Z 18:21:02.6	48.0	82.3	1.2	78	5.7		
	e PcP	Z 18:22:30.0							
	e PP	Z 18:22:55.4							
WET	e S	R 18:27:59.2							
	e P	Z 18:21:06.4	48.4	80.3	1.5	104	5.6		
TANN	e S	R 18:28:09.4							
	e P	Z 18:21:06.8	48.5	81.2	1.3	58	5.5		
ROTZ	e PcP	Z 18:22:32.0							
	e P	Z 18:21:09.4	48.8	80.4	1.3	91	5.6		
MANZ	e S	R 18:28:11.7							
	e P	Z 18:21:09.5	48.8	80.6	1.3	53	5.4		
MOX	e S	R 18:28:12.1							
	e P	Z 18:21:10.5	49.0	80.8	1.2	70	5.6		
BSEG	e S	R 18:28:12.6							
	e P	Z 18:21:13.2	49.3	82.7	1.0	79	5.7		
GRA1	e PcP	Z 18:22:34.4							
	e S	R 18:28:20.2							
	e P	Z 18:21:14.4	49.4	79.7	1.3	135	5.7		

	e PP	Z	18:23:07.1						
	e S	R	18:28:23.0						
	e L	Z	18:45:49.3			18.0	2220		5.2
NRDL	e P	Z	18:21:15.7	49.6	81.3	1.5	196	5.8	
	e S	R	18:28:23.8						
FUR	e P	Z	18:21:16.4	49.7	78.5	1.1	217	6.0	
	e S	R	18:28:22.8						
UBBA	e P	Z	18:21:17.7	50.0	79.8	1.4	58	5.3	
STU	e P	Z	18:21:25.3	50.9	77.6	1.0	111	5.7	
	e S	R	18:28:41.1						
TNS	e P	Z	18:21:26.2	51.1	78.3	1.0	39	5.3	
	e S	R	18:28:44.5						
IBBN	e P	Z	18:21:26.7	51.1	79.5	1.1	97	5.7	
	e S	R	18:28:45.2						
BFO	e P	Z	18:21:29.3	51.5	76.8	1.3	44	5.2	
	e S	R	18:28:49.7						
BUG	e P	Z	18:21:30.2	51.5	78.5	1.2	95	5.6	
	e S	R	18:28:48.9						
WLF	e P	Z	18:21:38.1	52.6	76.4	1.2	95	5.6	
	e PP	Z	18:23:35.2						

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/11 20:59:27.1 21.710S 174.850W 33.0G 5.4  
 Tonga Islands SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 21:19:10.5	147.5	9.0					
NRDL	e PKPbc	Z 21:19:15.2	149.0	9.0					
IBBN	e PKPbc	Z 21:19:15.9	149.3	4.8					
CLL	e PKPdf	Z 21:19:12.8	149.8	14.6					
	e PKPbc	Z 21:19:17.4							
BRG	e PKPdf	Z 21:19:13.5	150.0	16.5					
	e PKPbc	Z 21:19:17.6							
BUG	e PKPbc	Z 21:19:18.0	150.2	4.0					
MOX	e PKPbc	Z 21:19:19.0	150.6	12.3					
UBBA	e PKPbc	Z 21:19:19.1	150.6	9.2					
TANN	e PKPbc	Z 21:19:18.9	150.7	14.0					
MANZ	e PKPdf	Z 21:19:15.2	151.2	13.5					
	e PKPbc	Z 21:19:20.8							
TNS	e PKPdf	Z 21:19:15.3	151.4	6.4					
	e PKPbc	Z 21:19:21.3							
ROTZ	e PKPbc	Z 21:19:21.2	151.4	13.8					
GRA1	e PKPbc	Z 21:19:21.6	151.6	11.9					
	e L	Z 22:36:32.5			18.1	497		5.4	
WET	e PKPdf	Z 21:19:16.4	151.9	15.4					
GEC2	e PKPdf	Z 21:19:16.4	152.0	17.1					
	e PKPbc	Z 21:19:22.9							

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

37

WLF	e	PKPdf	Z	21:19:16.6	152.0	2.0
	e	PKPbc	Z	21:19:23.4		
STU	e	PKPdf	Z	21:19:17.6	152.7	8.2
	e	PKPbc	Z	21:19:24.4		
	e	PKPab	Z	21:19:33.9		
BFO	e	PKPbc	Z	21:19:25.5	153.3	6.6
	e	PKPab	Z	21:19:36.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/12	05:35:45.2	52.929N	158.851E	33.0N	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 05:47:16.8	73.8	19.6	0.9	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/12	06:39:36.5	43.300N	134.640E	33.0G	4.7			SZGRF
Primorye, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 06:50:16.8	71.8	39.3	0.6	14	5.3		
BRG	e P	Z 06:50:21.8	72.7	41.0	0.7	5	4.7		
CLL	e P	Z 06:50:21.9	72.7	40.5	0.5	14	5.3		
FBE	e P	Z 06:50:23.1	72.9	40.6	0.9	9	4.9		
NRDL	e P	Z 06:50:23.4	73.0	38.8	0.8	6	4.7		
WERD	e P	Z 06:50:27.8	73.7	39.8	0.7	3	4.3		
GUNZ	e P	Z 06:50:27.9	73.7	39.8	0.7	4	4.6		
GTTG	e P	Z 06:50:28.4	73.8	38.6	0.7	7	4.8		
WERN	e P	Z 06:50:28.3	73.8	39.9	0.6	6	4.7		
MOX	e P	Z 06:50:28.2	73.8	39.4	0.7	4	4.6		
MANZ	e P	Z 06:50:30.4	74.1	39.6	0.9	6	4.6		
ROTZ	e P	Z 06:50:31.1	74.2	39.7	1.3	8	4.6		
GEC2	e P	Z 06:50:31.0	74.3	40.4	0.6	4	4.6		
WET	e P	Z 06:50:32.2	74.4	40.0	0.9	6	4.6		
GRA1	e P	Z 06:50:34.0	74.7	39.0					
TNS	e P	Z 06:50:37.2	75.4	37.4	0.9	6	4.7		
BFO	e P	Z 06:50:45.7	77.0	37.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/12	11:00: 5.6	51.995N	159.167E	33.0N	4.9			SZGRF
Off east coast of Kamchatka Peninsula, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 11:11:42.6 74.7 19.8 1.9 24 4.9

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/12 13:31:1.4 28.830S 67.020W 111.7  
 La Rioja Province, Argentina

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z	13:44:39.9	101.7	238.9					
	e sSKSac	R	13:56:01.7							
BFO	e Pdiff	Z	13:44:42.2	102.3	240.2					
	e PP	Z	13:48:56.4							
	e sPP	Z	13:49:33.2							
	e sSKSac	R	13:56:03.7							
STU	e Pdiff	Z	13:44:45.9	103.0	240.8					
	e sSKSac	R	13:56:09.9							
BUG	e Pdiff	Z	13:44:46.8	103.3	240.0					
	e PP	Z	13:49:03.1							
	e sPP	Z	13:49:41.1							
	e sSKSac	R	13:56:08.8							
TNS	e Pdiff	Z	13:44:47.0	103.3	240.6					
	e PP	Z	13:49:03.4							
	e sSKSac	R	13:56:10.6							
IBBN	e Pdiff	Z	13:44:49.6	103.9	240.6					
UBBA	e Pdiff	Z	13:44:52.3	104.4	241.8					
	e PP	Z	13:49:11.7							
	e sPP	Z	13:49:51.7							
	e sSKSac	R	13:56:15.2							
GRFO	e PP	Z	13:49:13.3	104.6	242.4					
GRA1	e Pdiff	Z	13:44:53.3	104.6	242.4					
	e PP	Z	13:49:13.5							
	e pPP	Z	13:49:38.9							
	e sPP	Z	13:49:50.5							
	e sSKSac	R	13:56:17.9							
GTTG	e PP	Z	13:49:14.1	104.8	242.0					
	e sPP	Z	13:49:52.7							
	e sSKSac	R	13:56:18.5							
ROTZ	e Pdiff	Z	13:44:56.0	105.2	243.1					
	e PP	Z	13:49:17.5							
	e sSKSac	R	13:56:19.4							
MANZ	e Pdiff	Z	13:44:56.4	105.3	243.1					
	e sPP	Z	13:49:55.1							
	e sSKSac	R	13:56:20.6							
MOX	e Pdiff	Z	13:44:56.2	105.3	242.9					
	e PP	Z	13:49:17.6							
	e sPP	Z	13:49:55.4							
	e sSKSac	R	13:56:20.8							
NRDL	e PP	Z	13:49:17.8	105.3	242.3					



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:22:56.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/12	15:56:34.8	8.200N	126.500E	71.0N				NEIC

Mindanao, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 16:10:10.2	99.5	65.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/13								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:04:13.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/13	13:25: 5.1	47.300N	146.860E	33.0N	5.3			SZGRF

Northwest of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 13:36:31.4	72.3	29.3	1.0	29	5.3		
RUE	e P	Z 13:36:32.7	72.5	31.3	1.2	66	5.6		
NRDL	e P	Z 13:36:38.9	73.6	29.0	1.4	43	5.3		
CLL	e P	Z 13:36:39.3	73.7	30.6	1.0	57	5.6		
BRG	e P	Z 13:36:39.9	73.8	31.1	1.6	39	5.2		
FBE	e P	Z 13:36:41.0	74.0	30.8	1.2	43	5.4		
IBBN	e P	Z 13:36:43.8	74.4	27.4	1.0	39	5.4		
GTTG	e P	Z 13:36:44.3	74.5	28.7	1.4	57	5.4		
TANN	e P	Z 13:36:45.9	74.7	30.2	1.3	21	5.0		
WERD	e P	Z 13:36:45.2	74.7	30.1	1.4	29	5.1		
MOX	e P	Z 13:36:45.3	74.8	29.7	1.4	46	5.3		
GUNZ	e P	Z 13:36:45.8	74.8	30.1	1.6	46	5.3		
WERN	e P	Z 13:36:46.1	74.8	30.1	0.9	21	5.2		
UBBA	e P	Z 13:36:47.9	75.1	28.7	1.5	38	5.2		
MANZ	e P	Z 13:36:47.9	75.2	29.9	1.2	18	5.1		
ROTZ	e P	Z 13:36:48.9	75.3	29.9	1.2	32	5.3		
BUG	e P	Z 13:36:48.8	75.4	27.0	1.1	50	5.6		
GEC2	e P	Z 13:36:50.3	75.6	30.7	1.0	17	5.1		
WET	e P	Z 13:36:51.0	75.7	30.2	1.1	46	5.5		
GRA1	e P	Z 13:36:51.6	75.7	29.3	0.9	56	5.7		
TNS	e P	Z 13:36:52.9	76.1	27.6					
FUR	e P	Z 13:36:58.7	77.0	29.1					



./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

41

STU	e P	Z	13:36:59.5	77.2	27.9	0.9	44	5.6
WLF	e P	Z	13:37:00.4	77.3	26.1	1.0	17	5.1
BFO	e P	Z	13:37:02.4	77.8	27.4	1.1	34	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/13	15:51:17.1	29.750N	127.830E	33.0N	5.0			SZGRF

Northwest of Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 16:03:27.6	80.5	51.3	1.5	20	4.9		
BRG	e P	Z 16:03:28.5	80.6	53.6	0.8	5	4.6		
CLL	e P	Z 16:03:28.9	80.8	53.0	0.9	18	5.1		
FBE	e P	Z 16:03:29.9	80.9	53.2	0.9	16	5.0		
NRDL	e P	Z 16:03:33.1	81.5	51.0	1.1	7	4.7		
TANN	e P	Z 16:03:33.5	81.6	52.5	1.2	9	4.8		
WERD	e P	Z 16:03:33.7	81.7	52.4	1.3	16	5.0		
GUNZ	e P	Z 16:03:34.1	81.7	52.4	1.0	16	5.1		
WERN	e P	Z 16:03:34.2	81.8	52.4	1.1	17	5.1		
MOX	e P	Z 16:03:34.8	81.9	51.9	1.6	22	5.0		
GEC2	e P	Z 16:03:35.1	81.9	53.2	1.0	12	5.0		
MANZ	e P	Z 16:03:36.2	82.1	52.2	1.3	14	4.9		
ROTZ	e P	Z 16:03:36.5	82.2	52.2	1.1	20	5.1		
GTTG	e P	Z 16:03:36.3	82.2	50.8	0.7	12	5.1		
WET	e P	Z 16:03:36.5	82.2	52.6	1.2	10	4.8		
UBBA	e P	Z 16:03:38.7	82.6	50.7	1.4	19	5.1		
GRA1	e P	Z 16:03:39.5	82.7	51.5	1.7	50	5.5		
BUG	e P	Z 16:03:43.5	83.5	48.8	0.9	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/14	02:25:35.6	29.194N	51.211E	33.0N	4.9			SZGRF

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 02:32:21.4	34.6	110.7	0.9	9	4.7		
WET	e P	Z 02:32:26.3	35.2	110.2	1.1	10	4.7		
BRG	e P	Z 02:32:26.8	35.2	113.6	1.5	31	5.0		
FBE	e P	Z 02:32:30.2	35.6	113.0	1.5	32	4.9		
ROTZ	e P	Z 02:32:32.7	35.9	110.3	1.6	53	5.1		
FUR	e P	Z 02:32:32.6	35.9	107.2	1.0	63	5.4		
TANN	e P	Z 02:32:33.0	35.9	111.4	1.7	18	4.6		
WERN	e P	Z 02:32:33.3	35.9	111.1	1.6	44	5.0		
CLL	e P	Z 02:32:32.8	36.0	113.1	1.2	38	5.1		
MANZ	e P	Z 02:32:32.9	36.0	110.4	1.2	8	4.4		
RUE	e P	Z 02:32:33.6	36.0	115.5	1.1	59	5.3		
WERD	e P	Z 02:32:34.0	36.0	111.2	1.5	16	4.6		

GRA1	e P	Z	02:32:37.5	36.4	109.1	1.2	29	5.0
MOX	e P	Z	02:32:37.6	36.5	110.8	1.5	21	4.6
STU	e P	Z	02:32:46.2	37.4	105.9	2.0	45	4.9
UBBA	e P	Z	02:32:46.7	37.5	109.3	1.5	38	4.9
GTTG	e P	Z	02:32:49.5	37.8	110.1	1.6	45	4.9
BFO	e P	Z	02:32:49.4	37.8	104.5	1.9	37	4.8
NRDL	e P	Z	02:32:51.9	38.1	111.4	1.4	118	5.4
TNS	e P	Z	02:32:53.6	38.3	106.9	1.2	14	4.6
BSEG	e P	Z	02:32:54.3	38.5	113.3	1.2	32	4.8
IBBN	e P	Z	02:33:02.8	39.3	108.7	1.7	118	5.3
BUG	e P	Z	02:33:03.5	39.4	107.2	1.2	24	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/14	02:44: 8.9	36.180N	77.780E	146.4	4.9			SZGRF
Kashmir-Xinjiang border region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:52:25.7	47.0	82.4	1.2	22	5.1		
	e pP	Z	02:52:58.9							
FBE	e P	Z	02:52:28.7	47.3	82.1	1.2	33	5.3		
	e pP	Z	02:53:02.0							
GEC2	e P	Z	02:52:29.1	47.4	80.4	1.2	10	4.8		
	e pP	Z	02:53:02.9							
CLL	e P	Z	02:52:29.3	47.5	82.2	0.9	8	4.9		
	e pP	Z	02:53:02.8							
WET	e P	Z	02:52:33.1	47.9	80.1	0.7	7	4.9		
	e pP	Z	02:53:06.2							
TANN	e P	Z	02:52:33.2	48.0	81.0	0.7	6	4.8		
	e pP	Z	02:53:06.5							
GUNZ	e P	Z	02:52:34.4	48.0	80.8	0.7	8	5.0		
	e pP	Z	02:53:07.7							
WERD	e P	Z	02:52:34.2	48.0	80.9	0.7	8	4.9		
ROTZ	e P	Z	02:52:36.1	48.2	80.2	1.1	11	4.9		
	e pP	Z	02:53:09.6							
MANZ	e P	Z	02:52:36.1	48.2	80.4	0.8	6	4.8		
	e pP	Z	02:53:09.4							
MOX	e P	Z	02:52:37.3	48.4	80.6	1.3	15	4.8		
	e pP	Z	02:53:10.4							
BSEG	e P	Z	02:52:39.9	48.8	82.6	0.8	18	5.1		
GRA1	e P	Z	02:52:41.3	48.9	79.5	0.9	11	4.9		
	e pP	Z	02:53:14.7							
NRDL	e P	Z	02:52:42.4	49.1	81.2	0.8	16	5.1		
	e pP	Z	02:53:15.7							
FUR	e P	Z	02:52:42.8	49.1	78.2	0.7	42	5.6		
	e pP	Z	02:53:16.1							
GTTG	e P	Z	02:52:44.0	49.3	80.2	1.0	24	5.2		
UBBA	e P	Z	02:52:44.5	49.4	79.7	0.6	3	4.4		



Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:50:50.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/14	23:36:1.7	12.838N	47.678E	33.0N	4.6			SZGRF

Eastern Gulf of Aden

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:44:33.2	47.4	128.1	1.1	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/15	10:13:18.4	6.000S	150.400E	54.0N		5.9		NEIC

New Britain, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 10:32:08.0	122.2	49.0					
BRG	e PKPdf	Z 10:32:07.8	122.4	54.2					
CLL	e PKPdf	Z 10:32:07.8	122.6	53.1	1.0	21			
	e PP	Z 10:33:56.6							
	e SKSP	Z 10:43:36.3							
	e PPS	Z 10:45:03.0							
	e SS	N 10:50:27.7							
	e SSS	N 10:55:24.6							
	e L	Z 11:25:55.1			22.0	2660		5.9	
FBE	e PKPdf	Z 10:32:08.6	122.7	53.6					
NRDL	e PKPdf	Z 10:32:09.7	123.3	49.5					
TANN	e PKPdf	Z 10:32:09.7	123.4	53.0					
WERD	e PKPdf	Z 10:32:09.9	123.5	52.8					
GUNZ	e PKPdf	Z 10:32:10.3	123.5	52.9					
WERN	e PKPdf	Z 10:32:10.3	123.6	53.0					
GEC2	e PKPdf	Z 10:32:10.0	123.7	55.1					
MOX	e PKPdf	Z 10:32:10.6	123.7	52.0					
MANZ	e PKPdf	Z 10:32:10.8	123.9	52.8					
ROTZ	e PKPdf	Z 10:32:10.6	124.0	53.1					
GTTG	e PKPdf	Z 10:32:11.3	124.0	49.8					
WET	e PKPdf	Z 10:32:10.9	124.0	54.1					
IBBN	e PKPdf	Z 10:32:12.6	124.5	47.1					
GRA1	e PKPdf	Z 10:32:12.0	124.5	52.1					
	e L	Z 11:27:22.3			21.7	2622		5.9	
BUG	e PKPdf	Z 10:32:13.4	125.3	47.0					
FUR	e PKPdf	Z 10:32:14.0	125.4	53.0					
TNS	e PKPdf	Z 10:32:13.8	125.6	48.9					
BFO	e PKPdf	Z 10:32:14.5	126.8	49.8					
WLF	e PKPdf	Z 10:32:17.6	127.0	46.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/15	19:49:30.8	4.600S	153.000E	67.0N				NEIC
New Ireland, Papua New Guinea, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	20:08:19.2	122.1	45.5					
BRG	e PKPdf	Z	20:08:19.4	122.5	50.8					
CLL	e PKPdf	Z	20:08:19.5	122.7	49.6					
FBE	e PKPdf	Z	20:08:20.0	122.8	50.1					
NRDL	e PKPdf	Z	20:08:21.0	123.2	45.9					
TANN	e PKPdf	Z	20:08:21.8	123.5	49.5					
WERD	e PKPdf	Z	20:08:21.6	123.6	49.3					
GUNZ	e PKPdf	Z	20:08:21.9	123.6	49.3					
WERN	e PKPdf	Z	20:08:22.0	123.6	49.4					
MOX	e PKPdf	Z	20:08:21.7	123.8	48.4					
GEC2	e PKPdf	Z	20:08:22.2	123.9	51.5					
GTTG	e PKPdf	Z	20:08:23.0	123.9	46.2					
MANZ	e PKPdf	Z	20:08:22.5	124.0	49.3					
ROTZ	e PKPdf	Z	20:08:22.4	124.1	49.5					
WET	e PKPdf	Z	20:08:22.0	124.1	50.5					
GRA1	e PKPdf	Z	20:08:23.3	124.6	48.5					
BUG	e PKPdf	Z	20:08:24.0	125.2	43.4					
TNS	e PKPdf	Z	20:08:26.7	125.5	45.3					
STU	e PKPdf	Z	20:08:27.0	126.2	46.8					
BFO	e PKPdf	Z	20:08:27.0	126.9	46.1					
WLF	e PKPdf	Z	20:08:28.7	127.0	43.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	21:03:11.2							
	e Sn	N	21:04:00.6							
WET	e Sn	E	21:04:34.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	02:22:59.0	42.820N	135.550E	383.4	5.5			SZGRF
Sea of Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e S	R	02:42:42.2	72.3	40.9					
BSEG	e P	Z	02:33:47.2	72.5	38.9	1.2	99	5.8		

BRG	e P	Z	02:33:52.3	73.5	40.7	0.8	36	5.4
	e S	R	02:42:55.5					
CLL	e P	Z	02:33:52.1	73.5	40.2	1.4	118	5.7
	e S	R	02:42:55.4					
FBE	e P	Z	02:33:53.7	73.7	40.3	1.5	171	5.9
	e pP	Z	02:35:18.4					
NRDL	e P	Z	02:33:54.5	73.7	38.5	1.0	37	5.3
	e S	R	02:42:58.2					
TANN	e P	Z	02:33:57.8	74.4	39.6	1.3	39	5.3
	e S	R	02:43:05.3					
WERD	e P	Z	02:33:58.5	74.5	39.6	1.6	73	5.4
GUNZ	e P	Z	02:33:58.3	74.5	39.6	0.8	28	5.3
GTTG	e pP	Z	02:35:27.5	74.5	38.2			
	e S	R	02:43:06.1					
WERN	e P	Z	02:33:58.6	74.5	39.6	0.8	32	5.4
MOX	e P	Z	02:33:58.8	74.6	39.1	1.2	42	5.3
	e S	R	02:43:08.2					
IBBN	e P	Z	02:33:59.6	74.8	36.9	1.8	161	5.8
	e S	R	02:43:07.9					
MANZ	e P	Z	02:34:00.5	74.9	39.3	0.8	23	5.3
	e S	T	02:43:11.9					
ROTZ	e P	Z	02:34:01.6	75.0	39.4	1.1	51	5.5
	e pP	Z	02:35:27.3					
	e S	R	02:43:15.5					
UBBA	e P	Z	02:34:01.4	75.1	38.1	0.9	19	5.1
	e S	R	02:43:14.2					
GEC2	e P	Z	02:34:01.4	75.1	40.1	0.7	25	5.4
	e pP	Z	02:35:26.4					
WET	e P	Z	02:34:02.5	75.2	39.7	1.0	43	5.5
	e S	R	02:43:15.1					
GRA1	e P	Z	02:34:04.1	75.5	38.7	0.7	77	5.9
	e pP	Z	02:35:29.7					
	e S	R	02:43:18.3					
BUG	e P	Z	02:34:04.8	75.6	36.5	0.9	59	5.7
	e S	R	02:43:18.4					
TNS	e P	Z	02:34:07.5	76.2	37.0	0.9	33	5.5
	e PcP	Z	02:34:15.5					
	e S	R	02:43:25.1					
FUR	e P	Z	02:34:10.6	76.7	38.5	0.9	109	6.0
	e PcP	Z	02:34:18.2					
	e S	R	02:43:29.7					
STU	e P	Z	02:34:12.4	77.0	37.3	1.2	104	5.8
	e PcP	Z	02:34:20.0					
WLF	e P	Z	02:34:14.9	77.5	35.5	0.9	30	5.4
	e PcP	Z	02:34:22.1					
	e S	R	02:43:35.0					
BFO	e P	Z	02:34:16.1	77.7	36.7	1.1	119	5.9
	e PcP	Z	02:34:23.2					
	e pP	Z	02:35:42.9					

e S R 02:43:38.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	06:17:39.3	3.997N	95.205E	33.0N	5.8	4.4		SZGRF

Off west coast of northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 06:29:52.7	81.4	94.3	1.3	88	5.6		
GEC2	e P	Z 06:29:53.0	81.4	93.8	0.9	161	6.1		
RUE	e P	Z 06:29:53.8	81.6	94.4	1.0	172	6.1		
FBE	e P	Z 06:29:54.7	81.8	93.8	1.1	122	5.9		
WET	e P	Z 06:29:55.8	82.0	93.2	1.1	88	5.8		
CLL	e P	Z 06:29:55.5	82.0	93.6	1.0	53	5.6		
TANN	e P	Z 06:29:57.5	82.3	93.0	1.2	43	5.5		
WERN	e P	Z 06:29:57.8	82.3	93.0	1.1	41	5.5		
GUNZ	e P	Z 06:29:58.2	82.4	92.9	1.2	67	5.7		
WERD	e P	Z 06:29:57.9	82.4	92.9	1.2	62	5.6		
ROTZ	e P	Z 06:29:58.7	82.4	92.8	1.1	78	5.8		
MANZ	e P	Z 06:29:59.2	82.5	92.7	1.1	117	6.0		
MOX	e P	Z 06:30:00.3	82.8	92.4	1.4	68	5.7		
FUR	e P	Z 06:30:01.0	83.0	91.9	0.9	72	5.9		
GRA1	e P	Z 06:30:01.9	83.1	92.0	1.1	122	6.1		
	e L	Z 07:13:08.0			20.0	161		4.4	
BSEG	e P	Z 06:30:05.3	83.8	91.8	1.1	119	6.0		
NRDL	e P	Z 06:30:05.8	83.8	91.5	1.3	110	5.9		
UBBA	e P	Z 06:30:05.5	83.9	91.2	1.1	17	5.2		
GTTG	e P	Z 06:30:05.8	83.9	91.2	1.2	83	5.8		
STU	e P	Z 06:30:08.3	84.4	90.4	0.8	39	5.7		
TNS	e P	Z 06:30:10.9	84.9	89.9	1.1	75	5.8		
BFO	e P	Z 06:30:10.8	84.9	89.7	0.9	52	5.8		
IBBN	e P	Z 06:30:12.9	85.3	89.6	0.8	82	6.0		
BUG	e P	Z 06:30:14.5	85.6	89.1	1.2	112	5.9		
WLF	e P	Z 06:30:18.7	86.3	88.1	1.3	88	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	08:54:26.4	36.108N	44.769E	33.0N	4.7			SZGRF

Iran-Iraq border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:00:12.5	27.8	106.5	0.8	10	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	09:45:57.5	6.500N	132.500E	33.0N		6.1		SZGRF

Western Caroline Islands, Micronesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z 09:59:50.0	102.2	63.2					
	e PP	Z 10:04:01.3							
CLL	e Pdiff	Z 09:59:49.9	102.6	62.4					
	e PP	Z 10:04:17.4							
	e PPP	Z 10:06:39.0							
	e SKSac	Z 10:10:25.8							
	e Sdiff	N 10:11:53.5							
	e SP	Z 10:13:42.9							
	e PPS	N 10:14:55.0							
	e (SS)	N 10:19:35.0							
	e SSS	E 10:23:46.2							
	e L	Z 11:03:34.4				20.0	8813		6.3
	BSEG	e Pdiff	Z 09:59:54.0	102.7	59.5				
e PP		Z 10:04:08.1							
TANN	e Pdiff	Z 09:59:54.5	103.3	62.1					
	e PP	Z 10:04:10.6							
GEC2	e Pdiff	Z 09:59:52.8	103.3	63.5					
	e PP	Z 10:04:09.9							
NRDL	e Pdiff	Z 09:59:56.6	103.5	59.7					
WET	e Pdiff	Z 09:59:55.4	103.6	62.7					
	e PP	Z 10:04:13.6							
MOX	e Pdiff	Z 09:59:56.2	103.6	61.3					
	e PP	Z 10:04:12.8							
MANZ	e Pdiff	Z 09:59:56.3	103.7	61.9					
	e PP	Z 10:04:14.0							
ROTZ	e Pdiff	Z 09:59:56.8	103.7	62.0					
	e PP	Z 10:04:15.0							
GRA1	e Pdiff	Z 09:59:59.3	104.3	61.2					
	e PP	Z 10:04:18.5							
	e Sdiff	N 10:12:09.0							
	e L	Z 11:03:03.4				19.7	6197		6.1
UBBA	e Pdiff	Z 09:59:59.9	104.4	59.9					
	e PP	Z 10:04:18.8							
IBBN	e Pdiff	Z 10:00:03.3	104.9	57.6					
FUR	e Pdiff	Z 10:00:01.0	105.0	61.6					
	e PP	Z 10:04:22.7							
BUG	e Pdiff	Z 10:00:06.4	105.6	57.4					
	e PP	Z 10:04:27.5							
TNS	e Pdiff	Z 10:00:05.5	105.6	58.7					
	e PP	Z 10:04:27.6							
STU	e Pdiff	Z 10:00:05.4	105.9	59.7					
	e PP	Z 10:04:30.0							
BFO	e Pdiff	Z 10:00:09.1	106.6	59.1					
	e PP	Z 10:04:35.6							
WLF	e Pdiff	Z 10:00:13.2	107.1	56.9					
	e PP	Z 10:04:39.6							



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	10:43: 8.3	39.451N	57.928E	33.0N	3.9			SZGRF

Turkmenistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:49:51.0	34.2	89.3	0.7	1	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	12:34:55.7	51.619N	178.111W	33.0N	4.7			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:46:53.3	78.4	5.9	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	13:54: 8.4	23.150S	176.220W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 14:13:52.1	148.8	11.7					
NRDL	e PKPbc	Z 14:13:55.7	150.3	11.8					
CLL	e PKPbc	Z 14:13:57.7	151.0	17.7					
BRG	e PKPbc	Z 14:13:58.2	151.2	19.7					
MOX	e PKPbc	Z 14:13:59.8	151.8	15.4					
TANN	e PKPbc	Z 14:13:59.8	151.9	17.1					
MANZ	e PKPbc	Z 14:14:01.2	152.4	16.7					
TNS	e PKPbc	Z 14:14:01.8	152.7	9.4					
GEC2	e PKPbc	Z 14:14:02.6	153.1	20.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/16	14:07:43.0	16.919S	177.424W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 14:27:07.5	142.5	12.2					
NRDL	e PKPbc	Z 14:27:12.1	143.9	12.3					
IBBN	e PKPbc	Z 14:27:14.1	144.4	8.5					
CLL	e PKPbc	Z 14:27:14.2	144.6	17.4					
BRG	e PKPbc	Z 14:27:15.0	144.8	19.1					
BUG	e PKPbc	Z 14:27:16.1	145.3	7.9					

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

50

MOX	e	PKPbc	Z	14:27:16.8	145.5	15.4
TANN	e	PKPbc	Z	14:27:17.1	145.6	16.9
UBBA	e	PKPbc	Z	14:27:17.1	145.6	12.6
MANZ	e	PKPbc	Z	14:27:18.7	146.1	16.5
ROTZ	e	PKPbc	Z	14:27:19.5	146.2	16.7
TNS	e	PKPbc	Z	14:27:19.9	146.4	10.2
GRA1	e	PKPbc	Z	14:27:20.3	146.5	15.1
WET	e	PKPbc	Z	14:27:20.3	146.7	18.2
GEC2	e	PKPbc	Z	14:27:20.7	146.8	19.7
WLF	e	PKPbc	Z	14:27:22.5	147.1	6.3
STU	e	PKPbc	Z	14:27:23.5	147.7	11.9
FUR	e	PKPbc	Z	14:27:23.8	148.0	15.8
BFO	e	PKPbc	Z	14:27:24.6	148.2	10.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/17	04:45:22.9	38.200N	144.880E	33.0N	5.0			SZGRF
Off east coast of Honshu, Japan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:57:30.5	79.9	34.7	1.0	19	5.0		
BRG	e P	Z	04:57:36.7	81.1	36.9	1.3	8	4.6		
CLL	e P	Z	04:57:36.0	81.1	36.3	1.0	11	4.8		
NRDL	e P	Z	04:57:37.2	81.2	34.4	1.8	20	4.9		
IBBN	e P	Z	04:57:41.7	82.1	32.7	0.4	11	5.4		
MOX	e P	Z	04:57:42.2	82.1	35.3	1.5	20	5.0		
MANZ	e P	Z	04:57:44.3	82.5	35.6	1.1	5	4.7		
ROTZ	e P	Z	04:57:45.2	82.6	35.6	1.3	11	4.9		
WET	e P	Z	04:57:45.4	82.9	36.1	1.2	9	4.9		
BUG	e P	Z	04:57:46.7	83.0	32.3					
GRA1	e P	Z	04:57:47.5	83.1	34.9	0.9	10	5.0		
TNS	e P	Z	04:57:50.0	83.6	33.0	1.6	15	5.0		
FUR	e P	Z	04:57:53.7	84.3	34.9					
STU	e P	Z	04:57:54.8	84.6	33.5	1.3	15	5.1		
BFO	e P	Z	04:57:57.5	85.3	32.8	1.2	19	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/17	07:30:23.2	15.370S	42.320E	14.9	5.5			SZGRF
Mozambique Channel								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:41:27.0	69.1	150.4	0.9	35	5.6		
FUR	e P	Z	07:41:28.9	69.3	147.9	1.2	106	5.9		
WET	e P	Z	07:41:29.9	69.6	149.6	1.1	10	5.0		
ROTZ	e P	Z	07:41:35.0	70.3	149.1	1.2	44	5.5		
BFO	e P	Z	07:41:36.2	70.5	145.1	1.1	36	5.4		

STU	e P	Z	07:41:36.6	70.6	146.0	1.2	71	5.7
MANZ	e P	Z	07:41:36.3	70.6	149.0	1.1	38	5.4
GRA1	e P	Z	07:41:37.0	70.6	148.1	1.3	139	5.9
	e pP	Z	07:41:40.4					
	e sP	Z	07:41:42.8					
BRG	e P	Z	07:41:37.4	70.7	151.0	1.2	44	5.5
TANN	e P	Z	07:41:38.2	70.8	149.5	1.2	74	5.7
MOX	e P	Z	07:41:40.8	71.3	148.7	1.2	47	5.5
CLL	e P	Z	07:41:41.5	71.4	150.1	1.2	58	5.6
UBBA	e P	Z	07:41:45.2	72.0	147.2	1.1	24	5.3
TNS	e P	Z	07:41:45.3	72.0	145.6	1.2	46	5.5
WLF	e P	Z	07:41:47.5	72.4	143.4	1.1	67	5.7
NRDL	e P	Z	07:41:53.7	73.4	147.6	1.3	43	5.4
BUG	e P	Z	07:41:53.9	73.5	144.7	1.2	82	5.7
IBBN	e P	Z	07:41:57.1	74.0	145.3	1.1	56	5.5
BSEG	e P	Z	07:41:59.8	74.5	148.0	1.4	94	5.6

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/17 09:34: 8.1 31.900S 67.300W 100.0N  
 San Juan Province, Argentina

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Sdiff	T 09:59:36.9	104.3	237.1					
	e SP	Z 10:01:14.3							
BFO	e Sdiff	T 09:59:44.3	104.8	238.3					
	e SP	Z 10:01:17.6							
	e SS	T 10:06:57.5							
STU	e Sdiff	T 09:59:52.9	105.5	238.9					
	e SP	Z 10:01:27.3							
	e SS	T 10:07:02.8							
TNS	e Sdiff	T 09:59:51.2	105.8	238.8					
	e SP	Z 10:01:31.8							
	e SS	T 10:07:11.2							
BUG	e Sdiff	T 09:59:49.3	105.8	238.3					
	e SP	Z 10:01:31.2							
	e SS	T 10:07:07.5							
FUR	e Sdiff	T 09:59:57.2	106.4	240.1					
	e SP	Z 10:01:37.2							
IBBN	e Sdiff	T 09:59:54.1	106.5	238.8					
	e SP	Z 10:01:41.2							
	e SS	T 10:07:20.6							
UBBA	e Sdiff	T 10:00:00.7	107.0	240.0					
	e SP	Z 10:01:41.9							
	e SS	T 10:07:24.2							
GRA1	e Pdiff	Z 09:48:23.4	107.1	240.5					
	e PP	Z 09:52:49.1							
	e Sdiff	T 10:00:03.9							

	e SP	Z	10:01:44.0		
	e SS	T	10:07:27.3		
ROTZ	e Sdiff	T	10:00:10.1	107.7	241.2
	e SP	Z	10:01:49.6		
MANZ	e Sdiff	T	10:00:08.9	107.7	241.2
	e SP	Z	10:01:51.1		
	e SS	T	10:07:33.3		
WET	e Sdiff	T	10:00:08.8	107.8	241.4
	e SP	Z	10:01:50.4		
	e SS	T	10:07:32.8		
MOX	e Sdiff	T	10:00:10.2	107.8	241.0
	e SP	Z	10:01:51.0		
	e SS	T	10:07:31.2		
NRDL	e Sdiff	T	10:00:07.1	107.8	240.5
	e SP	Z	10:01:53.5		
	e SS	T	10:07:36.3		
GEC2	e Sdiff	T	10:00:12.6	108.1	241.9
	e SP	Z	10:01:55.5		
	e SS	T	10:07:35.2		
TANN	e Sdiff	T	10:00:13.1	108.1	241.5
	e SP	Z	10:01:55.0		
	e SS	T	10:07:38.2		
BSEG	e Sdiff	T	10:00:11.5	108.7	241.1
	e SP	Z	10:02:02.8		
CLL	e Sdiff	T	10:00:17.7	108.8	242.2
	e SP	Z	10:02:04.1		
	e SS	T	10:07:48.9		
BRG	e Sdiff	T	10:00:22.7	109.2	242.7
	e SP	Z	10:02:06.9		
	e SS	T	10:07:53.4		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/17 13:25: 6.1 14.854S 43.717E 21.1 5.0  
 Mozambique Channel

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 13:36:10.4	69.0	148.8	1.0	9	5.0		
FUR	e P	Z 13:36:12.9	69.3	146.3	0.5	13	5.4		
WET	e P	Z 13:36:12.8	69.6	148.1	1.9	15	4.9		
ROTZ	e P	Z 13:36:18.4	70.3	147.6	1.2	7	4.8		
MANZ	e P	Z 13:36:19.4	70.6	147.5	1.4	12	4.8		
BFO	e P	Z 13:36:18.9	70.6	143.6					
STU	e P	Z 13:36:20.6	70.6	144.5					
GRA1	e P	Z 13:36:20.3	70.6	146.6	0.9	14	5.1		
	e pP	Z 13:36:26.0							
BRG	e P	Z 13:36:21.3	70.7	149.4	1.0	7	4.7		
TANN	e P	Z 13:36:21.5	70.8	147.9	1.2	15	5.0		

MOX	e P	Z	13:36:24.3	71.3	147.2	1.3	11	4.9
CLL	e P	Z	13:36:25.1	71.4	148.6	1.0	11	4.9
UBBA	e P	Z	13:36:29.6	72.0	145.7			
TNS	e P	Z	13:36:29.3	72.1	144.1	0.9	7	4.8
WLF	e P	Z	13:36:31.9	72.5	141.8	1.5	27	5.2
BUG	e P	Z	13:36:37.8	73.5	143.2	1.1	18	5.1
BSEG	e P	Z	13:36:42.9	74.5	146.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	01:41:20.2	6.200S	146.000E	121.0N				NEIC
Eastern New Guinea, Papua New Guinea, region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z	01:59:57.1	120.3	58.7					
BSEG	e PKPdf	Z	01:59:57.8	120.4	53.6					
CLL	e PKPdf	Z	01:59:57.8	120.5	57.6					
TANN	e PKPdf	Z	01:59:59.2	121.3	57.5					
NRDL	e PKPdf	Z	01:59:58.4	121.4	54.1					
GEC2	e PKPdf	Z	01:59:59.4	121.4	59.5					
MOX	e PKPdf	Z	01:59:59.3	121.6	56.6					
MANZ	e PKPdf	Z	02:00:00.2	121.7	57.4					
WET	e PKPdf	Z	02:00:00.1	121.8	58.6					
GRA1	e PKPdf	Z	02:00:01.1	122.4	56.7					
FUR	e PKPdf	Z	02:00:02.9	123.2	57.5					
TNS	e PKPdf	Z	02:00:02.5	123.5	53.6					
STU	e PKPdf	Z	02:00:04.6	124.0	55.1					
BFO	e PKPdf	Z	02:00:04.9	124.7	54.5					
WLF	e PKPdf	Z	02:00:06.1	125.0	51.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	03:46: 0.1	51.434N	175.332W	56.1	5.2	5.4		SZGRF
Andreanof Islands, Aleutian Islands, United States								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	03:57:35.7	74.5	3.7	1.1	31	5.2		
	e pP	Z	03:57:51.3							
NRDL	e P	Z	03:57:43.5	76.0	3.5	0.9	13	5.0		
	e pP	Z	03:57:59.4							
IBBN	e P	Z	03:57:45.7	76.2	2.0	0.8	23	5.4		
CLL	e P	Z	03:57:49.5	77.0	5.3	0.9	25	5.3		
	e pP	Z	03:58:05.0							
BUG	e P	Z	03:57:50.1	77.1	1.7	1.1	17	5.1		
BRG	e P	Z	03:57:51.5	77.4	5.9	1.0	35	5.4		
	e pP	Z	03:58:08.5							
UBBA	e P	Z	03:57:52.9	77.6	3.4	1.5	18	5.0		

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

54

MOX	e P	Z	03:57:53.7	77.8	4.4	1.1	33	5.4
TANN	e P	Z	03:57:54.9	77.9	5.0	1.1	19	5.1
TNS	e P	Z	03:57:56.6	78.3	2.4	1.0	24	5.1
	e pP	Z	03:58:12.5					
MANZ	e P	Z	03:57:57.3	78.4	4.7	1.1	18	5.0
ROTZ	e P	Z	03:57:58.7	78.6	4.8	1.0	22	5.1
GRA1	e P	Z	03:57:59.5	78.7	4.2	1.0	61	5.6
	e pP	Z	03:58:14.5					
	e PP	Z	04:00:56.0					
	e S	E	04:07:59.5					
	e SS	N	04:13:20.0					
	e L	Z	04:42:20.1			18.4	1564	5.4
WLF	e P	Z	03:58:00.1	78.9	0.9	1.0	21	5.1
WET	e P	Z	03:58:01.8	79.2	5.2	1.0	16	4.9
GEC2	e P	Z	03:58:02.9	79.4	5.7	0.9	18	5.0
STU	e P	Z	03:58:04.6	79.7	2.9	0.7	29	5.3
	e pP	Z	03:58:20.3					
BFO	e P	Z	03:58:06.8	80.2	2.3	1.1	25	5.2
FUR	e P	Z	03:58:07.4	80.2	4.2	0.8	24	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	08:03:36.8	16.590S	172.760W	33.0N				SZGRF

Samoa Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPbc	Z 08:23:09.1	145.0	9.7					
UBBA	e PKPbc	Z 08:23:12.0	145.7	4.7					
MOX	e PKPbc	Z 08:23:12.4	145.8	7.5					
TANN	e PKPbc	Z 08:23:12.5	145.9	9.0					
TNS	e PKPbc	Z 08:23:15.1	146.4	2.1					
MANZ	e PKPbc	Z 08:23:14.3	146.4	8.4					
ROTZ	e PKPbc	Z 08:23:14.9	146.6	8.7					
GRA1	e PKPbc	Z 08:23:14.6	146.7	7.0					
WLF	e PKPbc	Z 08:23:15.0	146.9	358.1					
GEC2	e PKPbc	Z 08:23:17.2	147.3	11.5					
BFO	e PKPbc	Z 08:23:19.6	148.2	2.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	09:51: 7.4	51.440N	177.400W	44.4	5.2			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 10:02:43.5	74.4	5.0	0.9	51	5.6		
NRDL	e P	Z 10:02:51.3	75.9	4.8	0.8	22	5.3		
IBBN	e P	Z 10:02:53.4	76.2	3.3	0.8	88	5.9		

CLL	e P	Z	10:02:56.9	76.9	6.6	0.7	26	5.5
BUG	e P	Z	10:02:58.2	77.0	3.0	1.0	32	5.4
BRG	e P	Z	10:02:59.1	77.2	7.2	0.9	26	5.4
UBBA	e P	Z	10:03:00.9	77.5	4.7	1.0	9	4.8
MOX	e P	Z	10:03:01.4	77.6	5.7	0.9	24	5.3
TANN	e P	Z	10:03:02.2	77.8	6.3	1.0	10	4.9
TNS	e P	Z	10:03:04.5	78.2	3.7	0.9	36	5.4
MANZ	e P	Z	10:03:05.1	78.3	6.0	0.9	10	4.9
ROTZ	e P	Z	10:03:06.3	78.5	6.1	1.0	15	5.0
GRA1	e P	Z	10:03:07.2	78.6	5.5	0.7	42	5.6
	e pP	Z	10:03:20.0					
WLF	e P	Z	10:03:08.3	78.9	2.3	0.9	33	5.4
WET	e P	Z	10:03:09.3	79.0	6.5	1.0	9	4.7
GEC2	e P	Z	10:03:10.5	79.3	7.0	0.9	13	4.9
STU	e P	Z	10:03:12.3	79.6	4.2	0.8	23	5.2
BFO	e P	Z	10:03:14.9	80.1	3.6	0.9	14	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	18:28:35.1	5.627N	94.725E	33.0N	4.6			SZGRF

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:40:49.6	81.5	91.3	1.1	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	20:01:19.1	43.670N	141.340E	33.0N	4.7			SZGRF

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 20:12:52.0	73.8	34.6	0.9	8	4.8		
CLL	e P	Z 20:12:58.4	75.0	36.0	1.1	15	4.9		
MOX	e P	Z 20:13:04.0	76.1	35.0	0.8	3	4.4		
ROTZ	e P	Z 20:13:08.0	76.6	35.2	0.9	4	4.5		
GEC2	e P	Z 20:13:08.4	76.7	36.0	0.4	2	4.7		
WET	e P	Z 20:13:09.1	76.8	35.6	1.0	6	4.7		
GRA1	e P	Z 20:13:09.4	77.0	34.6	0.9	10	4.9		
FUR	e P	Z 20:13:17.1	78.2	34.4	0.7	12	5.0		
BFO	e P	Z 20:13:21.8	79.2	32.6	1.1	5	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	23:45:28.5	15.600S	167.600E	152.0N				NEIC

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	00:04:34.4	137.8	33.6					
BRG	e PKPdf	Z	00:04:36.6	138.9	40.5					
CLL	e PKPdf	Z	00:04:37.1	138.9	39.0					
NRDL	e PKPdf	Z	00:04:37.2	139.0	34.2					
TANN	e PKPdf	Z	00:04:39.3	139.8	38.9					
MOX	e PKPdf	Z	00:04:38.5	140.0	37.6					
MANZ	e PKPdf	Z	00:04:39.6	140.3	38.7					
GEC2	e PKPdf	Z	00:04:39.3	140.5	41.8					
WET	e PKPdf	Z	00:04:40.1	140.6	40.4					
GRA1	e PKPdf	Z	00:04:40.4	140.9	37.7					
FUR	e PKPdf	Z	00:04:39.4	142.1	39.0					
WLF	e PKPdf	Z	00:04:40.5	142.8	30.4					
BFO	e PKPdf	Z	00:04:40.8	143.1	34.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/18	23:48:26.1	21.820S	172.300E	50.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	00:08:00.7	146.4	38.2					
CLL	e PKPbc	Z	00:08:00.6	146.4	36.4					
FBE	e PKPbc	Z	00:08:01.1	146.6	37.3					
NEUB	e PKPbc	Z	00:08:02.5	146.9	34.6					
TANN	e PKPbc	Z	00:08:03.2	147.3	36.4					
WERD	e PKPbc	Z	00:08:03.7	147.4	36.1					
GUNZ	e PKPbc	Z	00:08:03.1	147.4	36.2					
MOX	e PKPbc	Z	00:08:04.1	147.5	34.8					
WERN	e PKPbc	Z	00:08:03.8	147.5	36.3					
MANZ	e PKPbc	Z	00:08:05.5	147.8	36.2					
ROTZ	e PKPbc	Z	00:08:05.9	147.9	36.6					
GEC2	e PKPbc	Z	00:08:05.5	148.1	39.8					
GRA1	e PKPbc	Z	00:08:05.5	148.4	35.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/19	06:56:39.4	28.796N	82.496E	33.0N	4.8			SZGRF

Nepal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:06:19.9	56.7	83.3	1.4	13	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/19	09:20:57.2	71.103N	3.801E	33.0N	4.2			SZGRF



Norwegian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	09:25:15.7	18.8	353.7	1.7	31	4.3		
UBBA	e P	Z	09:25:31.6	20.5	354.3					
MOX	e P	Z	09:25:36.4	20.8	352.9	1.0	9	4.0		
TANN	e P	Z	09:25:40.1	21.1	352.2	0.9	4	3.8		
GRA1	e P	Z	09:25:45.7	21.7	353.5	0.4	10	4.6		
ROTZ	e P	Z	09:25:45.7	21.7	352.6	0.7	5	4.0		
GEC2	e P	Z	09:25:56.4	22.7	351.7	0.8	5	4.1		
BFO	e P	Z	09:25:58.3	22.9	356.2	0.9	10	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/19	13:29:57.2	25.240S	174.790W	33.0				SZGRF

South of Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	13:49:41.7	151.1	9.6					
	e PKPbc	Z	13:49:48.4							
IBBN	e PKPdf	Z	13:49:44.4	152.9	5.1					
	e PKPbc	Z	13:49:52.7							
	e PKPab	Z	13:50:05.1							
CLL	e PKPdf	Z	13:49:44.1	153.3	15.8	1.6	47			
	e PKPbc	Z	13:49:52.7			1.2	82			
	e pPKPbc	Z	13:49:56.9							
	e PKPab	Z	13:50:05.8							
	e PP	Z	13:53:38.0							
	e SKKSac	Z	14:00:28.3							
	e PSKS	E	14:04:01.9							
	e PPS	Z	14:06:45.8							
	e SS	E	14:13:17.3							
	e SSS	E	14:19:13.7							
	e L	Z	15:08:07.5			20.0	1350		5.8	
BRG	e PKPdf	Z	13:49:44.8	153.5	17.9					
	e PKPbc	Z	13:49:53.8							
	e PKPab	Z	13:50:06.9							
BUG	e PKPdf	Z	13:49:45.5	153.8	4.2					
	e PKPbc	Z	13:49:54.4							
	e PKPab	Z	13:50:08.2							
MOX	e PKPdf	Z	13:49:45.3	154.1	13.4					
	e PKPbc	Z	13:49:54.7							
	e PKPab	Z	13:50:09.1							
UBBA	e PKPdf	Z	13:49:45.8	154.2	10.0					
	e PKPbc	Z	13:49:54.5							
	e PKPab	Z	13:50:09.8							
TANN	e PKPdf	Z	13:49:45.8	154.2	15.2					
	e PKPbc	Z	13:49:54.3							

	e PKPab	Z	13:50:10.2		
	e PP	Z	13:53:44.3		
MANZ	e PKPdf	Z	13:49:46.7	154.7	14.7
	e PKPab	Z	13:50:11.8		
	e PP	Z	13:53:45.2		
ROTZ	e PKPdf	Z	13:49:46.4	154.9	15.0
	e PKPbc	Z	13:49:56.9		
	e PKPab	Z	13:50:13.3		
	e PP	Z	13:53:45.9		
TNS	e PKPdf	Z	13:49:46.8	154.9	6.9
	e PKPbc	Z	13:49:56.5		
	e PKPab	Z	13:50:13.6		
GRA1	e PKPdf	Z	13:49:46.4	155.1	13.0
	e PKPab	Z	13:50:14.5		
	e PP	Z	13:53:47.7		
WET	e PKPdf	Z	13:49:47.1	155.4	16.8
	e PKPab	Z	13:50:14.9		
	e PP	Z	13:53:49.3		
GEC2	e PKPdf	Z	13:49:47.3	155.5	18.8
	e PKPab	Z	13:50:15.5		
	e PP	Z	13:53:51.3		
WLF	e PKPdf	Z	13:49:47.8	155.6	2.1
	e PKPab	Z	13:50:16.8		
STU	e PKPdf	Z	13:49:48.8	156.3	9.0
	e PKPab	Z	13:50:19.5		
FUR	e PKPdf	Z	13:49:48.9	156.6	13.9
	e PKPab	Z	13:50:20.9		
BFO	e PKPdf	Z	13:49:48.8	156.8	7.2
	e PKPab	Z	13:50:21.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/19	13:58:57.9	8.320S	108.740E	10.0G		5.5		SZGRF

Jawa, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	14:12:40.5	99.5	91.6					
	e PP	Z	14:16:43.5							
GEC2	e Pdiff	Z	14:12:40.7	99.6	91.7					
	e PP	Z	14:16:45.0							
CLL	e Pdiff	Z	14:12:42.8	100.1	90.8					
	e PP	Z	14:16:49.0							
WET	e Pdiff	Z	14:12:43.3	100.1	91.1					
TANN	e Pdiff	Z	14:12:44.3	100.4	90.5					
	e PP	Z	14:16:51.8							
ROTZ	e Pdiff	Z	14:12:45.7	100.6	90.4					
	e PP	Z	14:16:53.1							
MANZ	e Pdiff	Z	14:12:46.1	100.6	90.3					

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

59

	e PP	Z	14:16:53.7								
MOX	e Pdiff	Z	14:12:47.0	100.9	89.8						
	e PP	Z	14:16:55.3								
GRA1	e Pdiff	Z	14:12:48.3	101.2	89.7						
	e PP	Z	14:16:57.2								
	e L	Z	15:10:40.7			18.0	1368			5.5	
BSEG	e Pdiff	Z	14:12:50.8	101.7	88.1						
	e PP	Z	14:17:00.5								
NRDL	e Pdiff	Z	14:12:52.8	101.8	88.3						
	e PP	Z	14:17:02.1								
UBBA	e Pdiff	Z	14:12:51.6	102.0	88.5						
	e PP	Z	14:17:01.6								
TNS	e Pdiff	Z	14:12:56.2	103.0	87.5						
	e PP	Z	14:17:08.5								
BFO	e Pdiff	Z	14:12:55.5	103.1	87.8						
	e PP	Z	14:17:09.7								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/19	19:04:21.8	19.890S	178.500W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z 19:24:01.3	147.2	10.9					
CLL	e PKPbc	Z 19:24:01.5	147.3	20.3					
BRG	e PKPbc	Z 19:24:02.2	147.5	22.2					
MOX	e PKPbc	Z 19:24:04.1	148.2	18.3					
TANN	e PKPbc	Z 19:24:04.3	148.3	19.9					
MANZ	e PKPbc	Z 19:24:05.9	148.7	19.5					
ROTZ	e PKPbc	Z 19:24:06.4	148.9	19.8					
TNS	e PKPbc	Z 19:24:06.8	149.2	12.8					
GRA1	e PKPbc	Z 19:24:07.0	149.2	18.1					
WET	e PKPbc	Z 19:24:07.2	149.4	21.3					
GEC2	e PKPbc	Z 19:24:07.5	149.4	23.0					
WLF	e PKPbc	Z 19:24:09.3	150.0	8.8					
STU	e PKPbc	Z 19:24:10.0	150.5	14.8					
FUR	e PKPbc	Z 19:24:10.5	150.6	19.0					
BFO	e PKPbc	Z 19:24:11.2	151.0	13.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/19	20:39:38.8	5.150N	94.611E	33.0G				GSRC

Northern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z 20:51:47.7	80.1	94.0					
GEC2	e Pdiff	Z 20:51:47.8	80.1	93.5					

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

60

RUE	e	Pdiff	Z	20:51:48.7	80.3	94.1
FBE	e	Pdiff	Z	20:51:49.5	80.5	93.5
WET	e	Pdiff	Z	20:51:50.7	80.7	92.9
CLL	e	Pdiff	Z	20:51:50.4	80.7	93.3
TANN	e	Pdiff	Z	20:51:52.0	81.0	92.8
WERN	e	Pdiff	Z	20:51:52.9	81.1	92.7
GUNZ	e	Pdiff	Z	20:51:53.0	81.1	92.7
WERD	e	Pdiff	Z	20:51:52.7	81.1	92.6
ROTZ	e	Pdiff	Z	20:51:53.6	81.2	92.5
MANZ	e	Pdiff	Z	20:51:54.1	81.2	92.4
MOX	e	Pdiff	Z	20:51:55.0	81.6	92.1
GRA1	e	Pdiff	Z	20:51:56.7	81.8	91.7
CLZ	e	Pdiff	Z	20:51:59.5	82.4	91.3
BSEG	e	Pdiff	Z	20:52:00.1	82.5	91.6
TNS	e	Pdiff	Z	20:52:05.9	83.6	89.6
BFO	e	Pdiff	Z	20:52:05.7	83.7	89.3
BUG	e	Pdiff	Z	20:52:09.8	84.3	88.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/20	00:15:30.9	17.516S	178.009W	490.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 00:34:05.6	143.0	13.3					
NRDL	e PKPbc	Z 00:34:11.4	144.4	13.4					
CLZ	e PKPbc	Z 00:34:12.3	145.0	14.0					
CLL	e PKPbc	Z 00:34:12.3	145.1	18.6					
BRG	e PKPbc	Z 00:34:13.1	145.3	20.3					
BUG	e PKPbc	Z 00:34:15.3	145.8	9.0					
TANN	e PKPbc	Z 00:34:15.2	146.0	18.1					
MANZ	e PKPbc	Z 00:34:16.4	146.5	17.7					
ROTZ	e PKPbc	Z 00:34:17.2	146.7	18.0					
TNS	e PKPbc	Z 00:34:17.7	146.9	11.3					
GRA1	e PKPbc	Z 00:34:17.3	147.0	16.3					
WET	e PKPbc	Z 00:34:19.3	147.2	19.4					
GEC2	e PKPbc	Z 00:34:17.8	147.3	21.0					
GRB5	e PKPbc	Z 00:34:11.2	147.4	17.3					
WLF	e PKPbc	Z 00:34:20.1	147.7	7.4					
BFO	e PKPbc	Z 00:34:21.7	148.8	11.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/20	19:02:40.8	35.350N	23.330E	40	4.2			GSRC

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 19:06:34.3 17.0 144.1 1.1 26 4.3

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/21 05:14:29.9 28.610S 167.750E 33.0N  
 Norfolk Island, Australia, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 05:34:15.9	149.8	42.1					
BRG	e PKPbc	Z 05:34:17.7	150.3	51.4					
CLL	e PKPbc	Z 05:34:18.0	150.5	49.5					
NRDL	e PKPbc	Z 05:34:19.7	150.9	43.4					
CLZ	e PKPbc	Z 05:34:20.5	151.3	44.7					
TANN	e PKPbc	Z 05:34:19.5	151.3	49.9					
MOX	e PKPbc	Z 05:34:20.9	151.6	48.2					
GEC2	e PKPbc	Z 05:34:21.1	151.6	54.0					
MANZ	e PKPbc	Z 05:34:21.3	151.8	49.9					
ROTZ	e PKPbc	Z 05:34:21.6	151.9	50.4					
IBBN	e PKPbc	Z 05:34:22.1	152.0	39.8					
GRA1	e PKPbc	Z 05:34:22.9	152.4	49.0					
TNS	e PKPbc	Z 05:34:24.7	153.3	43.7					
BFO	e PKPbc	Z 05:34:27.6	154.7	46.2					
WLF	e PKPpdf	Z 05:34:18.9	154.7	40.5					
	e PKPbc	Z 05:34:27.9							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/21 07:16:25.3 21.398S 172.067E 10.0N  
 Southeast of Loyalty Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 07:36:00.3	144.6	30.2					
BRG	e PKPbc	Z 07:36:04.6	145.9	38.3					
CLL	e PKPbc	Z 07:36:04.3	145.9	36.4					
NRDL	e PKPbc	Z 07:36:04.4	145.9	31.0					
FBE	e PKPbc	Z 07:36:05.3	146.1	37.3					
CLZ	e PKPbc	Z 07:36:06.0	146.4	31.9					
TANN	e PKPbc	Z 07:36:07.4	146.9	36.4					
WERD	e PKPbc	Z 07:36:06.9	146.9	36.1					
GUNZ	e PKPbc	Z 07:36:07.7	146.9	36.2					
MANZ	e PKPbc	Z 07:36:08.5	147.3	36.2					
GEC2	e PKPbc	Z 07:36:09.1	147.6	39.8					
BUG	e PKPbc	Z 07:36:10.8	147.7	27.2					
GRA1	e PKPbc	Z 07:36:10.1	147.9	35.1					
TNS	e PKPbc	Z 07:36:11.7	148.4	30.1					
BFO	e PKPbc	Z 07:36:15.4	150.1	31.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/21	18:54:48.0	9.087S	110.329E	10.0G		5.7		NEIC

South of Jawa, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e L	Z 20:03:23.8	102.8	89.0	19.0	2016		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/21	22:11:36.8	18.379S	178.176W	33.0G				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z 22:31:10.2	145.3	13.9					
CLZ	e PKPbc	Z 22:31:12.1	145.9	14.6					
CLL	e PKPbc	Z 22:31:12.2	145.9	19.2					
BRG	e PKPbc	Z 22:31:12.8	146.1	20.9					
TANN	e PKPbc	Z 22:31:15.2	146.9	18.7					
MANZ	e PKPbc	Z 22:31:16.8	147.3	18.3					
ROTZ	e PKPbc	Z 22:31:17.0	147.5	18.6					
TNS	e PKPbc	Z 22:31:17.6	147.7	11.8					
GRA1	e PKPbc	Z 22:31:17.9	147.8	16.9					
GEC2	e PKPbc	Z 22:31:18.0	148.1	21.7					
WLF	e PKPbc	Z 22:31:20.3	148.5	7.9					
BFO	e PKPbc	Z 22:31:22.2	149.6	12.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/22	02:32:30.7	25.400S	62.540W	577.0N				SZGRF

Santiago del Estero Province, Argentina

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z 02:44:58.1	96.6	237.9					
BFO	e Pdiff	Z 02:45:00.2	97.1	239.3					
	e PP	Z 02:49:06.2							
STU	e Pdiff	Z 02:45:03.5	97.8	240.0					
BUG	e Pdiff	Z 02:45:04.6	98.1	238.9					
	e PP	Z 02:49:12.8							
TNS	e Pdiff	Z 02:45:05.1	98.1	239.6					
FUR	e Pdiff	Z 02:45:07.7	98.7	241.4					
	e PP	Z 02:49:19.1							
UBBA	e Pdiff	Z 02:45:10.2	99.3	240.8					
	e PP	Z 02:49:21.5							
GRA1	e Pdiff	Z 02:45:10.5	99.4	241.5					
	e PP	Z 02:49:23.6							

GTTG	e Pdiff	Z	02:45:12.0	99.6	240.9				
	e PP	Z	02:49:24.8						
CLZ	e Pdiff	Z	02:45:13.2	100.0	241.2				
	e PP	Z	02:49:27.0						
ROTZ	e Pdiff	Z	02:45:13.6	100.0	242.3				
	e PP	Z	02:49:27.8						
MANZ	e Pdiff	Z	02:45:14.0	100.1	242.2				
	e PP	Z	02:49:28.8						
MOX	e Pdiff	Z	02:45:13.8	100.1	242.0				
	e PP	Z	02:49:27.2						
WET	e Pdiff	Z	02:45:13.2	100.1	242.6				
	e PP	Z	02:49:27.3						
NRDL	e Pdiff	Z	02:45:14.4	100.2	241.2				
	e PP	Z	02:49:29.0						
GUNZ	e Pdiff	Z	02:45:15.4	100.4	242.4				
	e PP	Z	02:49:30.5						
WERD	e Pdiff	Z	02:45:15.2	100.4	242.4				
	e PP	Z	02:49:29.9						
GEC2	e Pdiff	Z	02:45:14.7	100.5	243.2				
	e PP	Z	02:49:30.4						
TANN	e Pdiff	Z	02:45:15.2	100.5	242.5				
	e PP	Z	02:49:30.9						
BSEG	e Pdiff	Z	02:45:17.3	101.0	241.5				
	e PP	Z	02:49:34.9						
CLL	i Pdiff	- Z	02:45:18.8	101.2	243.1	1.3	63		
	e sPdiff	Z	02:48:30.9						
	e PP	Z	02:49:36.8						
	e (sPP)	Z	02:52:35.7						
	e SKSac	N	02:55:02.8						
	e SP	Z	02:57:47.4						
	e PS	E	02:59:06.2						
	e PKKPbc	Z	03:01:16.7						
	e sPS	E	03:01:38.1						
	e SS	E	03:03:38.9						
	e SSS	N	03:07:28.8						
	e SSSS	E	03:10:58.2						
	FBE	e Pdiff	Z	02:45:18.6	101.2	243.3			
e PP		Z	02:49:36.0						
BRG	e Pdiff	Z	02:45:20.1	101.5	243.7				
	e PP	Z	02:49:37.5						
RUE	e Pdiff	Z	02:45:22.9	102.1	243.9				

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/22 12:27:22.9 22.230S 172.200E 33.0N  
 Southeast of Loyalty Islands

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

BSEG	e	PKPbc	Z	12:46:57.2	145.5	30.5
BRG	e	PKPbc	Z	12:47:01.0	146.7	38.7
CLL	e	PKPbc	Z	12:47:01.0	146.7	36.8
NRDL	e	PKPbc	Z	12:47:01.3	146.8	31.3
CLZ	e	PKPbc	Z	12:47:01.7	147.2	32.2
IBBN	e	PKPbc	Z	12:47:03.6	147.6	27.6
TANN	e	PKPbc	Z	12:47:03.7	147.7	36.8
MOX	e	PKPbc	Z	12:47:03.9	147.8	35.3
MANZ	e	PKPbc	Z	12:47:05.2	148.1	36.7
ROTZ	e	PKPbc	Z	12:47:05.8	148.3	37.0
GEC2	e	PKPbc	Z	12:47:05.6	148.4	40.3
WET	e	PKPbc	Z	12:47:06.0	148.5	38.7
GRA1	e	PKPbc	Z	12:47:06.3	148.7	35.5
TNS	e	PKPbc	Z	12:47:08.2	149.2	30.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/22	15:10:7.6	39.450N	73.920E	140.0N	4.6			SZGRF

Tajikistan-Xinjiang border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 15:17:50.6	42.5	81.4	0.7	11	4.7		
GEC2	e P	Z 15:17:54.0	43.0	79.1	1.0	8	4.4		
CLL	e P	Z 15:17:54.4	43.1	81.2	0.8	14	4.8		
WET	e P	Z 15:17:58.0	43.5	78.9	0.8	6	4.4		
TANN	e P	Z 15:17:58.4	43.5	79.9	1.3	11	4.4		
ROTZ	e P	Z 15:18:01.0	43.8	79.1	1.2	8	4.4		
MOX	e P	Z 15:18:02.4	44.0	79.6	0.9	8	4.5		
BSEG	e P	Z 15:18:03.8	44.3	82.1	0.8	14	4.8		
GRA1	e P	Z 15:18:05.8	44.5	78.4	1.4	28	5.0		
CLZ	e P	Z 15:18:06.9	44.6	80.0	0.7	7	4.7		
NRDL	e P	Z 15:18:07.7	44.6	80.5	0.9	16	4.9		
UBBA	e P	Z 15:18:09.8	45.0	78.7	0.8	4	4.4		
TNS	e P	Z 15:18:18.7	46.1	77.2	0.7	6	4.7		
BFO	e P	Z 15:18:22.6	46.6	75.3	1.3	14	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/22	22:14:50.9	36.730N	73.470E	33.0N	4.7			SZGRF

Northwestern Kashmir

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 22:22:55.8	43.9	84.9	0.6	9	4.6		
GEC2	e P	Z 22:22:58.3	44.3	82.6	0.7	2	4.0		
CLL	e P	Z 22:22:59.4	44.5	84.6	0.8	5	4.5		
ROTZ	e P	Z 22:23:06.1	45.1	82.5	1.2	7	4.5		
MANZ	e P	Z 22:23:06.4	45.2	82.7	1.1	6	4.4		



./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

65

MOX	e P	Z	22:23:07.5	45.4	83.0	1.1	10	4.7
GRA1	e P	Z	22:23:11.4	45.8	81.8	1.2	16	4.9
BSEG	e P	Z	22:23:11.5	45.9	85.2	0.7	11	5.0
FUR	e P	Z	22:23:12.3	46.0	80.4	1.1	23	5.1
CLZ	e P	Z	22:23:12.6	46.0	83.3	0.8	7	4.7
NRDL	e P	Z	22:23:13.1	46.1	83.7	1.1	10	4.8
UBBA	e P	Z	22:23:15.4	46.4	82.0	0.6	2	4.5
BFO	e P	Z	22:23:26.6	47.9	78.7	1.4	10	4.8
WLF	e P	Z	22:23:35.8	49.0	78.4	1.8	52	5.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/23	07:20: 8.0	70.860N	5.320W	33.0N	4.4			SZGRF
Jan Mayen Island region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	07:24:20.3	18.3	343.6	1.2	53	4.5		
UBBA	e P	Z	07:24:52.8	21.2	346.2	1.8	42	4.5		
CLL	e P	Z	07:24:52.6	21.3	343.5	1.7	45	4.5		
TNS	e P	Z	07:24:56.6	21.6	347.8	1.3	22	4.4		
MOX	e P	Z	07:24:56.9	21.7	345.0	1.1	11	4.2		
BRG	e P	Z	07:24:59.5	21.8	343.1	1.4	16	4.3		
TANN	e P	Z	07:24:59.9	22.0	344.5	1.3	28	4.5		
MANZ	e P	Z	07:25:04.6	22.4	345.1	1.3	13	4.2		
GRA1	e P	Z	07:25:07.3	22.5	345.9					
ROTZ	e P	Z	07:25:07.7	22.6	345.1	1.1	18	4.5		
STU	e P	Z	07:25:12.7	23.1	347.9					
WET	e P	Z	07:25:15.0	23.3	345.0	1.1	14	4.4		
BFO	e P	Z	07:25:15.3	23.4	348.8	1.4	17	4.4		
GEC2	e P	Z	07:25:18.8	23.8	344.6	1.3	14	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/23	14:20:49.5	22.720S	176.390W	33.0N				SZGRF
South of Fiji Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:40:32.3	148.4	11.9					
NRDL	e PKPbc	Z	14:40:36.3	149.8	12.0					
CLZ	e PKPbc	Z	14:40:37.5	150.4	12.7					
CLL	e PKPbc	Z	14:40:37.8	150.5	17.8					
BRG	e PKPbc	Z	14:40:38.4	150.7	19.8					
MOX	e PKPbc	Z	14:40:40.2	151.4	15.6					
TANN	e PKPbc	Z	14:40:40.3	151.5	17.3					
MANZ	e PKPbc	Z	14:40:41.6	151.9	16.8					
TNS	e PKPbc	Z	14:40:42.4	152.2	9.6					
GRA1	e PKPbc	Z	14:40:42.3	152.4	15.3					

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

66

GEC2	e	PKPbc	Z	14:40:43.1	152.7	20.6
WLF	e	PKPbc	Z	14:40:43.8	153.0	5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/23	15:48:11.7	18.420S	179.580W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e	PKPbc	Z	16:07:46.2	145.6	21.5			
BRG	e	PKPbc	Z	16:07:47.2	145.8	23.3			
FBE	e	PKPbc	Z	16:07:47.8	145.9	22.3			
MOX	e	PKPbc	Z	16:07:49.4	146.6	19.5			
TANN	e	PKPbc	Z	16:07:49.7	146.6	21.1			
WERD	e	PKPbc	Z	16:07:49.6	146.6	20.8			
GUNZ	e	PKPbc	Z	16:07:49.6	146.7	20.9			
GEC2	e	PKPbc	Z	16:07:52.7	147.7	24.1			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/23	22:18:52.6	43.558N	146.512E	33.0N	4.8			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	P	Z	22:30:34.6	75.6	31.2	1.0	16	5.1
NRDL	e	P	Z	22:30:41.8	76.9	30.9	0.8	7	4.8
CLL	e	P	Z	22:30:41.6	76.9	32.7	0.6	12	5.2
BRG	e	P	Z	22:30:42.0	77.0	33.2	1.1	7	4.7
CLZ	e	P	Z	22:30:44.8	77.3	31.0	1.3	15	5.0
IBBN	e	P	Z	22:30:46.7	77.8	29.3	0.9	11	5.0
MOX	e	P	Z	22:30:47.7	78.0	31.7	1.0	5	4.6
GEC2	e	P	Z	22:30:51.6	78.8	32.8	0.9	3	4.3
WET	e	P	Z	22:30:52.6	78.8	32.3	1.0	7	4.6
GRA1	e	P	Z	22:30:53.2	78.9	31.3	0.9	9	4.8
FUR	e	P	Z	22:30:59.6	80.2	31.2	0.9	14	5.0
STU	e	P	Z	22:31:01.1	80.4	29.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/23	23:54:55.3	23.600S	179.900W	474.0N				NEIC

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	PKP	Z	00:14:10.2	152.5	22.5			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/24	01:12:23.1	11.230S	74.804W	56.0G				NEIC

Central Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 01:26:12.6	96.0	259.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/24	01:41: 1.3	21.025S	46.452E	33.0N	4.5			SZGRF

Madagascar

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:52:53.0	77.3	146.5	0.9	3	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/24	10:02:32.8	19.530S	178.400W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 10:22:05.6	145.0	14.4					
NRDL	e PKPbc	Z 10:22:09.6	146.4	14.6					
CLZ	e PKPbc	Z 10:22:11.8	147.0	15.3					
CLL	e PKPbc	Z 10:22:11.5	147.0	20.0					
BRG	e PKPbc	Z 10:22:12.2	147.2	21.8					
TANN	e PKPbc	Z 10:22:14.5	147.9	19.5					
UBBA	e PKPbc	Z 10:22:14.5	148.0	15.1					
ROTZ	e PKPbc	Z 10:22:16.5	148.6	19.4					
TNS	e PKPbc	Z 10:22:16.5	148.8	12.5					
GEC2	e PKPbc	Z 10:22:17.7	149.1	22.6					
WLF	e PKPbc	Z 10:22:19.4	149.6	8.5					
BFO	e PKPbc	Z 10:22:21.7	150.7	13.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/24	13:42:32.0	19.510S	178.330W	33.0N				SZGRF

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 14:02:04.2	144.9	14.3					
NRDL	e PKPbc	Z 14:02:08.6	146.4	14.5					
IBBN	e PKPbc	Z 14:02:10.8	146.9	10.5					
CLZ	e PKPbc	Z 14:02:10.4	147.0	15.2					
CLL	e PKPbc	Z 14:02:10.8	147.0	19.9					

BRG	e	PKPbc	Z	14:02:11.5	147.2	21.7
MOX	e	PKPbc	Z	14:02:13.2	147.9	17.8
TANN	e	PKPbc	Z	14:02:13.9	147.9	19.4
UBBA	e	PKPbc	Z	14:02:14.5	148.0	14.9
MANZ	e	PKPbc	Z	14:02:15.2	148.4	19.0
ROTZ	e	PKPbc	Z	14:02:15.8	148.6	19.3
TNS	e	PKPbc	Z	14:02:15.9	148.8	12.4
	e	PKPab	Z	14:02:19.4		
GRA1	e	PKPbc	Z	14:02:16.2	148.9	17.6
WET	e	PKPab	Z	14:02:20.4	149.0	20.9
GEC2	e	PKPbc	Z	14:02:16.9	149.1	22.5
WLF	e	PKPbc	Z	14:02:19.1	149.6	8.4
	e	PKPab	Z	14:02:22.6		
FUR	e	PKPbc	Z	14:02:19.7	150.3	18.5
BFO	e	PKPbc	Z	14:02:20.9	150.7	12.9
	e	PKPab	Z	14:02:26.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/24	21:25:48.1	23.194N	124.495E	33.0N	4.8			SZGRF
Southwestern Ryukyu Islands, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:38:26.8	86.3	57.8	1.0	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/24	22:56:37.1	15.260S	42.280E	33.0N	5.6	5.0		SZGRF
Mozambique Channel								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 23:07:39.8	69.2	147.9	1.6	166	6.0		
WET	e P	Z 23:07:40.8	69.5	149.6	1.1	16	5.2		
ROTZ	e P	Z 23:07:45.9	70.2	149.1	1.6	70	5.5		
BFO	e P	Z 23:07:47.1	70.4	145.1	1.4	56	5.5		
STU	e P	Z 23:07:47.5	70.4	146.0	1.5	90	5.7		
MANZ	e P	Z 23:07:47.3	70.4	149.0	1.4	38	5.4		
GRA1	e P	Z 23:07:47.7	70.5	148.1	0.8	71	5.9		
	e PP	Z 23:10:26.5							
	e PPP	Z 23:12:16.8							
	e S	E 23:17:08.4							
	e SS	E 23:21:55.4							
	e L	Z 23:48:11.4			18.6	730		5.0	
BRG	e P	Z 23:07:48.3	70.6	151.0	1.4	46	5.4		
TANN	e P	Z 23:07:49.1	70.7	149.5	1.5	98	5.7		
MOX	e P	Z 23:07:51.7	71.2	148.7	1.5	70	5.6		
CLL	e P	Z 23:07:52.5	71.3	150.1	1.4	68	5.6		

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

69

TNS	e P	Z	23:07:56.2	71.9	145.6	1.3	60	5.6
WLF	e P	Z	23:07:58.4	72.3	143.3	1.4	58	5.5
CLZ	e P	Z	23:08:00.6	72.6	147.7	1.4	76	5.6
NRDL	e P	Z	23:08:04.6	73.2	147.6	1.6	64	5.5
BUG	e P	Z	23:08:04.9	73.3	144.7	1.5	102	5.7
IBBN	e P	Z	23:08:08.0	73.9	145.3	1.5	105	5.6
BSEG	e P	Z	23:08:10.7	74.4	148.0	1.4	82	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/25	02:43:43.1	0.200S	124.900E	87.0N				NEIC
Southern Molucca Sea								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pdiff	Z	02:57:33.1	103.2	73.6					
CLL	e Pdiff	Z	02:57:34.5	103.6	72.7					
GEC2	e Pdiff	Z	02:57:35.9	103.9	73.9					
TANN	e Pdiff	Z	02:57:37.1	104.2	72.5					
BSEG	e Pdiff	Z	02:57:37.5	104.3	69.8					
WET	e Pdiff	Z	02:57:38.4	104.4	73.1					
MANZ	e Pdiff	Z	02:57:38.7	104.6	72.3					
ROTZ	e Pdiff	Z	02:57:39.0	104.6	72.4					
MOX	e Pdiff	Z	02:57:39.4	104.7	71.7					
NRDL	e Pdiff	Z	02:57:40.9	105.0	70.0					
CLZ	e Pdiff	Z	02:57:41.3	105.0	70.4					
GRA1	e Pdiff	Z	02:57:41.3	105.2	71.6					
	e PP	Z	03:02:12.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/25	07:46:31.3	6.100S	154.300E	65.0N		5.0		NEIC
Bougainville - Solomon Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	08:05:22.3	124.0	44.9					
BRG	e PKPdf	Z	08:05:23.3	124.4	50.3					
CLL	e PKPdf	Z	08:05:22.9	124.6	49.1					
NRDL	e PKPdf	Z	08:05:23.9	125.1	45.3					
TANN	e PKPdf	Z	08:05:25.2	125.5	49.0					
CLZ	e PKPdf	Z	08:05:25.0	125.5	46.0					
GEC2	e PKPdf	Z	08:05:25.6	125.8	51.1					
MANZ	e PKPdf	Z	08:05:25.8	125.9	48.8					
ROTZ	e PKPdf	Z	08:05:25.8	126.0	49.0					
WET	e PKPdf	Z	08:05:26.3	126.1	50.1					
IBBN	e PKPdf	Z	08:05:27.2	126.3	42.8					
UBBA	e PKPdf	Z	08:05:26.9	126.3	46.1					
GRA1	e PKPdf	Z	08:05:26.9	126.5	48.0					

	e PP	Z	08:07:28.0								
	e L	Z	09:06:53.3			20.8		306		5.0	
STU	e PKPdf	Z	08:05:30.9	128.1	46.3						
BFO	e PKPdf	Z	08:05:31.0	128.8	45.6						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/25	11:40:51.3	10.362N	91.813E	33.0N	4.6			SZGRF

Andaman Islands, India, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:52:35.8	76.0	90.4	0.7	3	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/25	22:03:37.0	33.420N	133.740E	33.0G	5.4	4.8		SZGRF

Shikoku, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 22:15:44.6	79.9	45.0	1.0	32	5.2		
BRG	e P	Z 22:15:47.1	80.5	47.3	1.0	20	5.1		
CLL	e P	Z 22:15:47.7	80.6	46.6	1.1	73	5.6		
	e PP	Z 22:18:51.7							
NRDL	e P	Z 22:15:50.7	81.1	44.7	1.1	19	5.0		
CLZ	e P	Z 22:15:52.8	81.4	44.8	1.1	66	5.6		
TANN	e P	Z 22:15:52.7	81.5	46.2	1.2	21	5.1		
	e PP	Z 22:19:00.1							
MOX	e P	Z 22:15:53.9	81.7	45.6	1.2	25	5.2		
	e PP	Z 22:19:01.2							
MANZ	e P	Z 22:15:55.3	81.9	45.9	1.0	24	5.3		
GEC2	e P	Z 22:15:54.9	82.0	46.9	1.0	18	5.2		
	e PP	Z 22:19:04.0							
ROTZ	e P	Z 22:15:56.2	82.0	45.9	1.3	49	5.5		
WET	e P	Z 22:15:56.3	82.2	46.3	1.1	18	5.1		
	e PP	Z 22:19:06.2							
IBBN	e P	Z 22:15:56.6	82.2	43.0	1.2	44	5.5		
UBBA	e P	Z 22:15:57.1	82.3	44.5	1.5	30	5.2		
GRA1	e P	Z 22:15:58.9	82.5	45.2	1.1	108	6.0		
	e PP	Z 22:19:08.1							
	e L	Z 22:55:13.6			21.7	452		4.8	
BUG	e P	Z 22:16:00.7	83.0	42.5	1.4	53	5.6		
TNS	e P	Z 22:16:03.0	83.4	43.3	1.1	35	5.5		
FUR	e P	Z 22:16:04.1	83.6	45.1	1.1	98	6.0		
STU	e P	Z 22:16:06.4	84.1	43.7	1.1	61	5.7		
WLF	e P	Z 22:16:10.5	84.8	41.6	1.2	66	5.7		
BFO	e P	Z 22:16:10.0	84.8	43.1	1.3	74	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/25								SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:06:39.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/26	00:46: 9.7	40.753N	143.874E	33.0N	4.4			SZGRF
Off east coast of Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:58:18.6	80.5	34.4	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/26	01:02:27.3	47.950N	152.250E	33.0N	5.4	5.0		SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 01:13:57.3	73.2	25.6	0.9	28	5.4		
NRDL	e P	Z 01:14:04.9	74.5	25.2	1.0	25	5.2		
CLL	e P	Z 01:14:06.0	74.8	26.9	0.8	46	5.5		
BRG	e P	Z 01:14:06.9	74.9	27.5	1.6	50	5.3		
CLZ	e P	Z 01:14:08.3	75.0	25.3	0.9	44	5.5		
IBBN	e P	Z 01:14:09.4	75.3	23.7	0.9	47	5.6		
TANN	e P	Z 01:14:12.1	75.7	26.5	1.2	15	5.0		
MOX	e P	Z 01:14:12.1	75.8	26.0	1.4	36	5.3		
UBBA	e P	Z 01:14:13.6	76.1	25.0	1.5	38	5.3		
BUG	e P	Z 01:14:14.4	76.2	23.3	0.9	29	5.4		
MANZ	e P	Z 01:14:14.9	76.2	26.2	1.0	24	5.3		
ROTZ	e P	Z 01:14:16.1	76.4	26.3	1.1	27	5.3		
GRA1	e P	Z 01:14:18.0	76.7	25.6	1.0	61	5.7		
	e L	Z 01:52:31.8			19.1	655		5.0	
WET	e P	Z 01:14:18.1	76.8	26.6	0.9	30	5.4		
GEC2	e P	Z 01:14:17.7	76.8	27.1	1.0	16	5.1		
TNS	e P	Z 01:14:19.2	77.0	24.0	0.9	27	5.4		
WLF	e P	Z 01:14:25.4	78.1	22.4	1.4	31	5.2		
FUR	e P	Z 01:14:25.4	78.1	25.5	1.0	47	5.6		
STU	e P	Z 01:14:25.4	78.1	24.3	1.0	32	5.4		
BFO	e P	Z 01:14:28.7	78.8	23.7	1.1	29	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/09/26 01:26:49.5 1.500S 103.500E 190.0N 4.8 SZGRF  
 Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:39:38.3	90.9	91.3	0.9	3	4.7		
GEC2	e P	Z	01:39:38.9	91.0	91.1	1.6	14	5.0		
FBE	e P	Z	01:39:39.8	91.3	90.8	0.8	3	4.7		
WET	e P	Z	01:39:40.9	91.5	90.5	1.2	7	4.8		
GUNZ	e P	Z	01:39:42.9	91.9	90.1	1.4	6	4.8		
ROTZ	e P	Z	01:39:44.0	92.0	90.0	1.3	5	4.7		
MANZ	e P	Z	01:39:43.8	92.0	89.9	1.0	3	4.6		
GRA1	e P	Z	01:39:45.5	92.6	89.2	2.0	38	5.5		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/26 02:25:52.2 47.800N 152.430E 52.0 5.2 4.5 ML SZGRF  
 Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:37:19.9	73.3	25.5	1.0	26	5.2		
	e pP	Z	02:37:34.3							
NRDL	e P	Z	02:37:27.5	74.7	25.2	0.9	17	5.1		
CLL	e P	Z	02:37:28.4	75.0	26.9	0.7	34	5.5		
	e pP	Z	02:37:43.7							
BRG	e P	Z	02:37:29.1	75.1	27.4	1.1	11	4.8		
CLZ	e P	Z	02:37:30.7	75.2	25.3	0.9	31	5.4		
IBBN	e P	Z	02:37:32.0	75.5	23.7	0.8	30	5.5		
TANN	e P	Z	02:37:34.4	75.9	26.5	0.8	3	4.5		
MOX	e P	Z	02:37:35.0	76.0	25.9	1.1	22	5.2		
UBBA	e P	Z	02:37:35.8	76.2	24.9	0.8	7	4.8		
BUG	e P	Z	02:37:37.1	76.4	23.3	0.9	24	5.3		
	e pP	Z	02:37:51.8							
MANZ	e P	Z	02:37:37.6	76.4	26.2	1.1	18	5.1		
ROTZ	e P	Z	02:37:38.6	76.6	26.2	1.0	19	5.2		
GRA1	e P	Z	02:37:40.7	76.9	25.6	0.9	46	5.6		
	e pP	Z	02:37:55.1							
	e L	Z	03:15:55.2			18.2	232		4.5	
WET	e P	Z	02:37:40.5	76.9	26.6	0.9	23	5.3		
	e pP	Z	02:37:54.6							
GEC2	e P	Z	02:37:40.6	77.0	27.1	0.9	10	4.9		
	e pP	Z	02:37:54.1							
TNS	e P	Z	02:37:41.5	77.2	23.9	0.8	25	5.4		
	e pP	Z	02:37:56.5							
WLF	e P	Z	02:37:48.1	78.3	22.4	1.6	21	4.9		
FUR	e P	Z	02:37:47.9	78.3	25.5	0.9	26	5.3		
STU	e P	Z	02:37:48.0	78.3	24.2	0.9	26	5.3		
BFO	e P	Z	02:37:50.7	79.0	23.7	1.1	24	5.2		
	e pP	Z	02:38:06.3							



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/26	13:02:46.9	26.926S	174.340E	33.0N				SZGRF
Southeast of Loyalty Islands								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	13:22:36.2	150.5	29.9					
BRG	e PKPbc	Z	13:22:38.7	151.8	39.3					
CLL	e PKPbc	Z	13:22:38.1	151.8	37.2					
FBE	e PKPbc	Z	13:22:39.7	152.0	38.2					
CLZ	e PKPbc	Z	13:22:39.5	152.3	32.0					
WERD	e PKPbc	Z	13:22:41.0	152.8	37.0					
GUNZ	e PKPbc	Z	13:22:41.2	152.8	37.1					
MANZ	e PKPbc	Z	13:22:41.9	153.2	37.1					
GEC2	e PKPbc	Z	13:22:42.2	153.4	41.4					
WET	e PKPbc	Z	13:22:42.6	153.6	39.6					
GRA1	e PKPbc	Z	13:22:42.9	153.8	35.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/26	19:20:40.9	17.580S	169.740W	33.0N				SZGRF
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPbc	Z	19:40:14.0	145.1	359.7					
CLZ	e PKPbc	Z	19:40:16.2	145.7	0.2					
BUG	e PKPbc	Z	19:40:16.4	146.1	354.9					
CLL	e PKPbc	Z	19:40:17.0	146.2	4.7					
BRG	e PKPbc	Z	19:40:18.3	146.6	6.4					
MOX	e PKPbc	Z	19:40:20.2	146.9	2.4					
TANN	e PKPbc	Z	19:40:20.4	147.1	3.9					
MANZ	e PKPbc	Z	19:40:21.9	147.6	3.3					
ROTZ	e PKPbc	Z	19:40:22.1	147.8	3.5					
GRA1	e PKPbc	Z	19:40:21.1	147.9	1.7					
STU	e PKPab	Z	19:40:28.8	148.8	358.0					
BFO	e PKPbc	Z	19:40:26.5	149.2	356.4					
	e PKPab	Z	19:40:31.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/26	23:51: 3.8	41.952N	20.000E	10.0G		3.4		SZGRF
Albania								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z	23:52:32.8	6.2	147.4					

	e Sn	N	23:53:38.8							
KBA	e Pn	Z	23:52:45.5	7.0	134.8					
MOA	e Pn	Z	23:52:47.4	7.2	143.4					
	e Sn	E	23:54:03.2							
WTTA	e Pn	Z	23:52:59.2	8.0	128.7					
FUR	e Pn	Z	23:53:09.0	8.7	132.1					
WET	e Pn	Z	23:53:09.1	8.7	142.7					
DAVA	e Pn	Z	23:53:12.1	9.0	122.9					
ROTZ	e Pn	Z	23:53:20.7	9.5	142.4					
MANZ	e Pn	Z	23:53:22.9	9.7	142.8					
	e Sn	Z	23:55:04.8							
GRA1	e Pn	Z	23:53:25.7	9.9	138.4					
	e L	Z	23:57:31.8			20.9	627		3.4	
TANN	e Pn	Z	23:53:26.6	9.9	145.5					
STU	e Pn	Z	23:53:28.2	10.2	128.0					
BFO	e Pn	Z	23:53:31.1	10.4	123.5					
	e Sn	E	23:55:21.2							
MOX	e Pn	Z	23:53:32.4	10.4	143.2					
TNS	e Pn	Z	23:53:46.0	11.5	131.6					

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/26 23:52:14.8 49.230N 151.440E 33.0N 5.0 4.3  
 Northwest of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:03:35.5	71.8	25.6	0.9	14	5.1		
CLL	e P	Z 00:03:45.5	73.4	26.9	0.8	23	5.3		
BRG	e P	Z 00:03:46.7	73.5	27.4	1.0	10	4.8		
CLZ	e P	Z 00:03:47.9	73.6	25.3	0.9	19	5.1		
TANN	e P	Z 00:03:51.2	74.4	26.4	1.0	5	4.5		
MOX	e P	Z 00:03:51.2	74.4	25.9	0.9	11	4.9		
BUG	e P	Z 00:03:54.1	74.8	23.3	0.8	15	5.1		
MANZ	e P	Z 00:03:54.7	74.8	26.2	1.0	10	4.8		
ROTZ	e P	Z 00:03:55.7	75.0	26.2	1.0	12	4.9		
GRA1	e P	Z 00:03:57.4	75.4	25.6	1.1	27	5.3		
	e L	Z 00:39:48.7			20.5	161		4.3	
WET	e P	Z 00:03:56.9	75.4	26.5	0.9	13	5.0		
GEC2	e P	Z 00:03:56.9	75.4	27.0	1.0	8	4.8		
TNS	e P	Z 00:03:58.6	75.6	23.9	1.3	15	4.9		
BFO	e P	Z 00:04:08.2	77.4	23.7	1.2	13	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/27 15:50:10.5 19.580S 177.160W 694.8  
 Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	16:08:31.5	145.2	12.4					
NRDL	e PKPbc	Z	16:08:36.0	146.6	12.5					
CLZ	e PKPbc	Z	16:08:38.0	147.2	13.2					
CLL	e PKPbc	Z	16:08:37.9	147.3	17.9					
	e pPKPbc	Z	16:11:12.9							
BRG	e PKPbc	Z	16:08:38.6	147.5	19.7					
BUG	e PKPbc	Z	16:08:39.9	147.9	7.9					
MOX	e PKPbc	Z	16:08:40.5	148.2	15.8					
	e pPKPbc	Z	16:11:14.1							
TANN	e PKPbc	Z	16:08:40.8	148.2	17.4					
MANZ	e PKPbc	Z	16:08:42.3	148.7	17.0					
ROTZ	e PKPbc	Z	16:08:42.7	148.9	17.3					
TNS	e PKPbc	Z	16:08:42.7	149.0	10.3					
GRA1	e PKPbc	Z	16:08:43.3	149.2	15.5					
	e PKPab	Z	16:08:47.2							
	e pPKPbc	Z	16:11:19.1							
WET	e PKPbc	Z	16:08:43.7	149.4	18.8					
GEC2	e PKPbc	Z	16:08:43.9	149.5	20.4					
WLF	e PKPbc	Z	16:08:45.5	149.8	6.2					
STU	e PKPbc	Z	16:08:46.2	150.4	12.2					
FUR	e PKPbc	Z	16:08:46.7	150.6	16.4					
	e PKPab	Z	16:08:53.8							
BFO	e PKPbc	Z	16:08:47.4	150.9	10.7					
	e PKPab	Z	16:08:54.6							
	e pPKPbc	Z	16:11:21.3							

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/28 01:36:54.3 46.690N 152.180E 33.0N 6.0 6.0 ML SZGRF  
 Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	01:48:22.5	73.0	28.2	0.9	223	6.3		
	e S	T	01:57:50.8							
BSEG	e P	Z	01:48:30.3	74.3	26.1	1.0	144	6.0		
	e S	T	01:58:07.4							
RUE	e P	Z	01:48:32.2	74.7	28.2	1.0	196	6.1		
	e S	T	01:58:09.8							
CLL	i P	+ Z	01:48:39.2	75.9	27.5	0.9	254	6.3		
	e PP	Z	01:51:31.4							
	e PPP	Z	01:53:20.6							
	e PPPP	Z	01:54:30.8							
	e S	E	01:58:24.0							
	e ScS	E	01:58:54.3							
	e SP	Z	01:58:54.5							
	e (SS)	N	02:03:30.0							
	e SSS	N	02:06:55.2							

	e LR	Z	02:14:01.6							
	e L	Z	02:28:54.4			18.0	8723		6.1	
BRG	e P	Z	01:48:39.9	76.0	28.1	1.2	80	5.7		
	e S	T	01:58:24.8							
FBE	e P	Z	01:48:40.8	76.2	27.7	0.9	141	6.1		
CLZ	e P	Z	01:48:41.4	76.2	25.9	0.9	259	6.3		
IBBN	e P	Z	01:48:42.4	76.4	24.2	1.0	230	6.3		
	e S	T	01:58:23.9							
GTTG	e P	Z	01:48:43.3	76.5	25.6	1.0	138	6.0		
TANN	e P	Z	01:48:45.1	76.9	27.1	1.2	67	5.7		
	e S	T	01:58:32.2							
WERD	e P	Z	01:48:45.2	76.9	27.0	1.0	87	5.8		
MOX	e P	Z	01:48:45.2	76.9	26.6	1.0	166	6.1		
	e S	R	01:58:35.8							
GUNZ	e P	Z	01:48:45.6	76.9	27.0	1.0	134	6.0		
UBBA	e P	Z	01:48:46.7	77.2	25.6	1.2	69	5.6		
BUG	e P	Z	01:48:47.5	77.3	23.8	1.1	255	6.3		
	e S	T	01:58:38.7							
MANZ	e P	Z	01:48:47.9	77.3	26.8	1.0	144	6.1		
ROTZ	e P	Z	01:48:49.1	77.5	26.9	1.0	144	6.1		
GRA1	e P	Z	01:48:51.1	77.9	26.2	1.0	402	6.5		
	e PP	Z	01:51:54.3							
	e S	R	01:58:45.3							
	e L	Z	02:26:08.8			18.5	6028		6.0	
WET	e P	Z	01:48:51.2	77.9	27.2	1.0	168	6.1		
	e S	R	01:58:41.9							
GEC2	e P	Z	01:48:50.8	77.9	27.7	1.0	80	5.8		
	e S	R	01:58:38.8							
TNS	e P	Z	01:48:52.2	78.1	24.5	1.1	210	6.2		
FUR	e P	Z	01:48:58.4	79.2	26.1	1.1	292	6.1		
WLF	e P	Z	01:48:57.9	79.3	23.0	1.5	164	5.7		
STU	e P	Z	01:48:58.4	79.3	24.9	1.0	202	6.0		
BFO	e P	Z	01:49:01.8	79.9	24.3	1.2	190	5.9		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/28 01:46:40.6 43.750N 152.500E 33.0N 4.8  
 East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 01:58:32.7	77.1	27.0	0.9	10	5.0		
NRDL	e P	Z 01:58:40.2	78.5	26.7	1.0	8	4.7		
CLL	e P	Z 01:58:40.9	78.7	28.6	0.8	18	5.2		
FBE	e P	Z 01:58:42.3	78.9	28.8	0.8	7	4.7		
CLZ	e P	Z 01:58:42.9	79.0	26.9	0.8	10	4.9		
MOX	e P	Z 01:58:46.6	79.7	27.6	0.9	9	4.7		
GUNZ	e P	Z 01:58:47.4	79.7	28.1	0.7	4	4.4		
MANZ	e P	Z 01:58:48.4	80.1	27.9	0.9	5	4.5		

ROTZ	e P	Z	01:58:48.7	80.3	27.9					
WET	e P	Z	01:58:52.3	80.6	28.3	0.8	7	4.7		
GEC2	e P	Z	01:58:52.1	80.6	28.8	0.9	5	4.5		
GRA1	e P	Z	01:58:52.5	80.6	27.3	0.9	17	5.1		
TNS	e P	Z	01:58:53.1	81.0	25.4	0.8	10	4.9		
BFO	e P	Z	01:59:02.7	82.7	25.2	1.3	16	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/28	02:46:24.3	47.432N	153.615E	33.0N	4.7			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:58:17.5	77.6	25.0	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/28	06:22:1.8	18.980S	173.240W	41.9		6.8		SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	06:41:36.2	144.9	5.9					
	e PP	Z	06:44:52.2							
NRDL	e PKPbc	Z	06:41:40.6	146.4	5.7					
	e pPKPbc	Z	06:41:51.5							
	e PP	Z	06:45:00.4							
IBBN	e PKPbc	Z	06:41:41.1	146.7	1.7					
	e pPKPbc	Z	06:41:52.5							
	e PP	Z	06:45:04.0							
CLZ	e PKPbc	Z	06:41:42.3	147.0	6.3					
	e pPKPbc	Z	06:41:54.1							
	e PP	Z	06:45:04.4							
CLL	e PKPbc	Z	06:41:43.3	147.3	11.0					
	e sPKPbc	Z	06:41:54.9							
	e PP	Z	06:45:08.9							
	e SKKSac	N	06:51:52.8							
	e SKKPbc	Z	06:53:17.7							
	e PSKS	E	06:55:16.2							
	e PPS	E	06:57:47.8							
	e SS	E	07:03:50.3							
	e SSS	N	07:09:22.9							
	e LR	Z	07:30:52.6							
	e L	Z	07:50:33.2			20.0	20589		6.9	
BUG	e PKPbc	Z	06:41:43.9	147.5	0.9					
	e pPKPbc	Z	06:41:55.0							
	e PP	Z	06:45:10.8							
BRG	e PKPbc	Z	06:41:44.5	147.6	12.7					

	e pPKPbc	Z	06:41:56.2									
MOX	e PKPbc	Z	06:41:45.6	148.1	8.7							
	e pPKPbc	Z	06:41:57.5									
TANN	e PKPbc	Z	06:41:46.0	148.2	10.3							
	e pPKPbc	Z	06:41:58.2									
	e PP	Z	06:45:12.8									
MANZ	e PKPbc	Z	06:41:47.1	148.7	9.8							
	e pPKPbc	Z	06:41:59.6									
	e PP	Z	06:45:15.5									
TNS	e PKPbc	Z	06:41:46.7	148.7	3.1							
	e pPKPbc	Z	06:41:59.3									
ROTZ	e PKPbc	Z	06:41:46.8	148.9	10.0							
	e pPKPbc	Z	06:42:00.4									
	e PP	Z	06:45:17.2									
GRA1	e PKPbc	Z	06:41:48.1	149.1	8.2							
	e pPKPbc	Z	06:42:00.7									
	e PP	Z	06:45:17.8									
	e SKKP	Z	06:53:11.3									
	e		06:55:57.7									
	e SS	E	07:03:57.6									
	e L	Z	07:51:41.4			21.0	18335		6.8			
WLF	e PKPbc	Z	06:41:47.9	149.3	358.9							
	e pPKPbc	Z	06:42:01.5									
WET	e PKPbc	Z	06:41:47.8	149.4	11.4							
	e pPKPbc	Z	06:42:01.6									
GEC2	e PKPbc	Z	06:41:48.3	149.6	13.1							
	e pPKPbc	Z	06:42:02.5									
	e PP	Z	06:45:20.3									
STU	e PKPbc	Z	06:41:49.9	150.1	4.6							
	e pPKPbc	Z	06:42:03.5									
FUR	e PKPbc	Z	06:41:51.0	150.6	8.7							
	e pPKPbc	Z	06:42:05.2									
BFO	e PKPbc	Z	06:41:50.7	150.6	3.0							
	e pPKPbc	Z	06:42:05.0									
	e PP	Z	06:45:25.0									

Date 2006/09/28 Origin Time 08:07:20.8 Lat 31.510S Long 176.180W Depth 33.0G mb Ms ML Source SZGRF  
 Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e PKPab	Z 08:27:49.9	158.5	14.8					
IBBN	e PKPab	Z 08:27:53.0	159.0	9.4					
CLL	e PKPab	Z 08:27:52.3	159.1	22.4					
CLZ	e PKPab	Z 08:27:52.8	159.1	15.8					
BRG	e PKPab	Z 08:27:53.2	159.2	25.0					
BUG	e PKPab	Z 08:27:56.3	159.9	8.6					

MOX	e	PKPab	Z	08:27:56.5	160.0	19.8
TANN	e	PKPab	Z	08:27:56.6	160.0	22.0
UBBA	e	PKPab	Z	08:27:57.1	160.2	15.7
MANZ	e	PKPab	Z	08:27:59.0	160.5	21.6
ROTZ	e	PKPab	Z	08:27:59.9	160.7	22.1
TNS	e	PKPab	Z	08:28:00.8	161.0	12.2
GRA1	e	PKPab	Z	08:28:01.5	161.0	19.7
WET	e	PKPab	Z	08:28:01.8	161.1	24.5
GEC2	e	PKPab	Z	08:28:01.4	161.1	26.9
WLF	e	PKPab	Z	08:28:04.5	161.8	6.4
FUR	e	PKPab	Z	08:28:07.7	162.4	21.5
BFO	e	PKPab	Z	08:28:08.7	162.8	13.1

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/28 13:22:50.8 11.760N 94.130E 24.5 4.8  
 Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	13:34:29.2	74.7	90.0	0.9	8	4.7		
GEC2	e P	Z	13:34:30.2	74.9	89.3	0.7	8	4.8		
CLL	e P	Z	13:34:32.2	75.3	89.4	1.2	11	4.8		
WET	e P	Z	13:34:32.9	75.4	88.8	1.0	5	4.5		
TANN	e P	Z	13:34:34.4	75.7	88.8	0.9	4	4.6		
ROTZ	e P	Z	13:34:36.2	75.9	88.4	1.0	7	4.7		
MANZ	e P	Z	13:34:36.4	75.9	88.4	0.9	5	4.7		
MOX	e P	Z	13:34:37.3	76.2	88.2	0.8	6	4.8		
GRA1	e P	Z	13:34:39.2	76.5	87.7	0.6	5	4.9		
	e pP	Z	13:34:46.3							
BSEG	e P	Z	13:34:41.7	76.9	88.0	0.8	22	5.3		
CLZ	e P	Z	13:34:41.6	76.9	87.5	0.9	17	5.2		
NRDL	e P	Z	13:34:42.8	77.1	87.5	1.2	12	4.9		
TNS	e P	Z	13:34:49.0	78.2	85.7	1.0	6	4.7		
BUG	e P	Z	13:34:52.8	78.9	85.0	0.8	12	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/28 14:39: 4.9 11.523N 97.905E 24.0 4.8  
 Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:51:07.8	79.1	85.0	0.8	8	4.8		
	e pP	Z	14:51:14.7			0.8	8			

Date Origin Time Lat Long Depth mb Ms ML Source

2006/09/28 18:48:54.8 0.729N 95.758E 33.0N 4.7 SZGRF  
Off west coast of northern Sumatra, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:01:31.9	85.9	93.7	1.4	10	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/28	23:54:35.8	46.191N	151.932E	33.0N	4.5			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:06:32.6	78.2	26.6	1.0	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/28	23:56:47.6	48.600N	151.890E	33.0N	5.3			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 00:08:13.6	72.5	25.5	0.9	23	5.3		
RUE	e P	Z 00:08:15.6	72.8	27.5	1.0	47	5.6		
NRDL	e P	Z 00:08:21.2	73.8	25.2	0.9	17	5.1		
CLL	e P	Z 00:08:22.7	74.1	26.9	0.8	52	5.6		
BRG	e P	Z 00:08:23.2	74.2	27.4	0.9	14	5.0		
CLZ	e P	Z 00:08:24.7	74.3	25.3	0.8	39	5.5		
FBE	e P	Z 00:08:24.2	74.3	27.0	0.8	25	5.3		
IBBN	e P	Z 00:08:25.7	74.6	23.7	1.1	33	5.3		
TANN	e P	Z 00:08:28.3	75.0	26.4	0.9	8	4.7		
WERD	e P	Z 00:08:28.5	75.1	26.3	1.0	14	4.9		
MOX	e P	Z 00:08:28.5	75.1	25.9	0.9	23	5.2		
GUNZ	e P	Z 00:08:28.9	75.1	26.3	0.9	19	5.1		
WERN	e P	Z 00:08:29.2	75.2	26.4	0.8	24	5.4		
UBBA	e P	Z 00:08:29.6	75.4	25.0	0.8	8	4.9		
BUG	e P	Z 00:08:30.8	75.5	23.3	1.0	26	5.3		
MANZ	e P	Z 00:08:31.2	75.5	26.2	1.0	21	5.2		
ROTZ	e P	Z 00:08:32.4	75.7	26.2	1.0	22	5.2		
GRA1	e P	Z 00:08:34.4	76.0	25.6	1.3	54	5.5		
GRFO	e P	Z 00:08:34.5	76.0	25.6	0.9	44	5.6		
WET	e P	Z 00:08:34.4	76.1	26.5	0.9	27	5.4		
GEC2	e P	Z 00:08:34.1	76.1	27.0					
TNS	e P	Z 00:08:35.6	76.3	23.9	0.7	26	5.4		
FUR	e P	Z 00:08:41.8	77.4	25.5	0.8	35	5.5		
STU	e P	Z 00:08:42.7	77.4	24.2	0.9	32	5.4		
BFO	e P	Z 00:08:44.9	78.1	23.7	0.9	25	5.3		



Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/29	00:42:60.0	18.260S	176.000W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPbc	Z	01:02:31.7	144.9	16.3					
NRDL	e PKPbc	Z	01:02:33.2	145.4	10.3					
IBBN	e PKPbc	Z	01:02:35.2	145.8	6.4					
CLZ	e PKPbc	Z	01:02:36.0	146.0	10.9					
CLL	e PKPbc	Z	01:02:36.3	146.2	15.5	0.8	156			
	e SKPbc	Z	01:05:44.6							
BRG	e PKPbc	Z	01:02:37.2	146.4	17.3					
FBE	e PKPbc	Z	01:02:37.4	146.5	16.2					
BUG	e PKPbc	Z	01:02:37.6	146.7	5.7					
MOX	e PKPbc	Z	01:02:39.0	147.1	13.4					
WERD	e PKPbc	Z	01:02:39.4	147.1	14.6					
TANN	e PKPbc	Z	01:02:39.5	147.1	14.9					
GUNZ	e PKPbc	Z	01:02:39.8	147.2	14.7					
ROTZ	e PKPbc	Z	01:02:41.6	147.8	14.7					
GRA1	e PKPdf	Z	01:02:41.5	148.0	13.0					
	e PKPbc	Z	01:02:42.6							
GRFO	e PKPbc	Z	01:02:42.4	148.0	13.0					
WET	e PKPdf	Z	01:02:41.3	148.3	16.2					
WLF	e PKPbc	Z	01:02:44.5	148.5	3.9					
STU	e PKPdf	Z	01:02:43.1	149.2	9.7					
FUR	e PKPbc	Z	01:02:46.7	149.5	13.7					
BFO	e PKPdf	Z	01:02:43.7	149.7	8.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/29	04:16:28.6	15.900S	176.200W	366.0N				NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:35:25.0	145.7	12.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/29	06:00:18.3	38.003N	142.054E	33.0N	4.7			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:12:36.3	82.2	37.0	0.9	6	4.7		



	e PKPPKP	Z	13:47:33.1								
MOX	e P	Z	13:19:38.4	70.8	263.7	1.4	45	5.4			
MANZ	e P	Z	13:19:40.0	71.1	264.3	1.5	217	6.1			
ROTZ	e P	Z	13:19:40.3	71.1	264.4	1.4	101	5.8			
	e S	T	13:28:52.7								
WERD	e P	Z	13:19:41.1	71.2	264.3	1.4	94	5.7			
	e pP	Z	13:19:56.5								
GUNZ	e P	Z	13:19:41.2	71.2	264.3	1.5	79	5.6			
	e pP	Z	13:19:56.5								
WERN	e P	Z	13:19:41.9	71.3	264.4	1.3	95	5.8			
	e pP	Z	13:19:56.7								
TANN	e P	Z	13:19:41.9	71.3	264.4	1.4	121	5.8			
	e pP	Z	13:19:57.0								
	e S	T	13:28:56.4								
WET	e P	Z	13:19:42.5	71.5	265.2	1.3	119	5.9			
	e pP	Z	13:19:57.9								
	e S	T	13:28:56.3								
CLL	e P	Z	13:19:44.2	71.7	264.6	1.4	147	5.9			
	e pP	Z	13:19:59.9								
	e PP	Z	13:22:24.0								
	e pPP	Z	13:22:38.6								
	e S	N	13:29:01.6								
	e sPS	Z	13:29:53.5								
	e SS	N	13:33:39.6								
	e LR	Z	13:41:45.5								
	e L	Z	13:48:13.4			22.0	1702	5.3			
FBE	e P	Z	13:19:45.5	71.9	265.0	1.4	172	6.0			
	e pP	Z	13:20:00.4								
GEC2	e P	Z	13:19:45.6	72.0	265.9	1.3	192	6.1			
	e pP	Z	13:20:00.6								
	e S	T	13:29:03.9								
BRG	e P	Z	13:19:47.9	72.3	265.5	1.3	132	5.9			
	e pP	Z	13:20:02.7								
	e S	T	13:29:05.6								
RUE	e P	Z	13:19:47.7	72.3	264.8	1.2	137	5.9			
	e pP	Z	13:20:02.9								
	e S	T	13:29:07.2								

Date 2006/09/29 Origin Time 14:44: 6.4 Lat 46.070N Long 152.943E Depth 33.0N mb 4.7 Ms ML Source SZGRF  
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:56:05.5	78.6	26.0	0.7	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/29	15:37:33.8	42.985N	147.677E	33.0N	4.8			SZGRF

Off southeast coast of Hokkaido, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:49:39.2	79.8	30.8	1.4	16	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 17:11:22.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/29	18:23: 2.3	10.220N	61.770W	52.1	5.2			SZGRF

Trinidad

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 18:33:56.4	68.0	259.6	1.0	26	5.4		
	e pP	Z 18:34:11.2							
BUG	e P	Z 18:34:02.9	69.0	259.8	1.1	20	5.3		
	e pP	Z 18:34:17.1							
BFO	e pP	Z 18:34:18.4	69.2	261.9					
IBBN	e P	Z 18:34:05.8	69.5	259.9	1.1	49	5.6		
	e pP	Z 18:34:20.4							
TNS	e P	Z 18:34:06.5	69.5	261.3	1.0	29	5.4		
	e pP	Z 18:34:20.9							
UBBA	e pP	Z 18:34:27.1	70.6	262.3					
GTTG	e P	Z 18:34:13.8	70.7	262.0	1.2	20	5.1		
	e pP	Z 18:34:28.7							
NRDL	e P	Z 18:34:14.7	70.9	261.8	1.0	19	5.2		
	e pP	Z 18:34:29.2							
CLZ	e P	Z 18:34:14.7	71.0	262.2	1.1	14	5.0		
	e pP	Z 18:34:29.7							
FUR	e pP	Z 18:34:30.5	71.1	264.2					
BSEG	e P	Z 18:34:16.5	71.2	261.5	1.3	49	5.5		
	e pP	Z 18:34:31.2							
GRFO	e pP	Z 18:34:31.4	71.2	263.6					
GRA1	e P	Z 18:34:16.3	71.2	263.6	0.9	13	5.1		
	e pP	Z 18:34:31.2							
MOX	e P	Z 18:34:18.9	71.6	263.6	2.2	36	5.1		
MANZ	e P	Z 18:34:20.7	71.8	264.2	1.1	16	5.1		
	e pP	Z 18:34:35.6							
ROTZ	e pP	Z 18:34:35.1	71.9	264.4					
WERD	e P	Z 18:34:21.5	72.0	264.3	1.2	14	5.0		

	e pP	Z	18:34:35.8								
GUNZ	e pP	Z	18:34:36.0	72.0	264.3						
WERN	e P	Z	18:34:21.8	72.0	264.4	1.0		10	4.9		
	e pP	Z	18:34:36.1								
TANN	e pP	Z	18:34:36.6	72.1	264.4						
WET	e P	Z	18:34:22.5	72.3	265.1	1.0		13	5.0		
	e pP	Z	18:34:37.2								
CLL	e P	Z	18:34:24.3	72.5	264.5	1.0		16	5.1		
	e pP	Z	18:34:38.9								
FBE	e pP	Z	18:34:40.0	72.7	264.9						
GEC2	e P	Z	18:34:25.8	72.8	265.9	1.1		17	5.1		
	e pP	Z	18:34:40.9								
BRG	e P	Z	18:34:28.0	73.1	265.4	1.0		12	5.0		
	e pP	Z	18:34:42.5								

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/09/29

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 19:02:13.4							

Date Origin Time Lat Long Depth mb Ms ML Source  
2006/09/30 04:31:39.4  
Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKPdf	Z 04:50:39.2	136.4	38.8					
BSEG	e PKPdf	Z 04:50:39.5	136.4	33.4					
BRG	e PKPdf	Z 04:50:40.0	137.6	40.1					
CLL	e PKPdf	Z 04:50:40.6	137.6	38.6					
NRDL	e PKPdf	Z 04:50:41.3	137.7	33.9					
FBE	e PKPdf	Z 04:50:41.6	137.8	39.3					
CLZ	e PKPdf	Z 04:50:42.4	138.2	34.7					
TANN	e PKPdf	Z 04:50:42.8	138.5	38.5					
WERD	e PKPdf	Z 04:50:43.1	138.6	38.2					
GUNZ	e PKPdf	Z 04:50:43.6	138.6	38.3					
WERN	e PKPdf	Z 04:50:43.2	138.7	38.4					
MOX	e PKPdf	Z 04:50:43.4	138.7	37.2					
UBBA	e PKPdf	Z 04:50:43.8	139.1	34.9					
GEC2	e PKPdf	Z 04:50:43.5	139.2	41.3					
WET	e PKPdf	Z 04:50:43.5	139.3	39.9					
BUG	e PKPdf	Z 04:50:43.5	139.5	30.7					
GRA1	e PKPdf	Z 04:50:43.5	139.6	37.3					
TNS	e PKPdf	Z 04:50:45.3	140.2	33.1					
WLF	e PKPdf	Z 04:50:46.8	141.4	30.1					

BFO e PKPdf Z 04:50:47.5 141.8 34.2

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/30 12:47:23.3 6.970N 34.660W 33.0G 5.6 5.0  
 Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 12:56:48.1	54.6	232.7	2.1	167	5.7		
BFO	e P	Z 12:56:51.4	55.0	235.7	1.5	110	5.7		
	e PcP	Z 12:57:55.8							
TNS	e P	Z 12:56:59.6	56.2	234.8	1.7	90	5.5		
BUG	e P	Z 12:57:00.2	56.3	232.9	1.4	74	5.5		
FUR	e P	Z 12:57:02.5	56.6	238.7	1.3	136	5.8		
IBBN	e P	Z 12:57:05.6	57.0	232.9	1.5	131	5.7		
UBBA	e P	Z 12:57:07.8	57.3	236.0	1.8	88	5.5		
GRA1	e P	Z 12:57:07.9	57.3	237.8	1.5	147	5.8		
	e	12:57:16.2							
	e S	R 13:04:59.9							
	e L	Z 13:14:47.0			31.7	2020		5.0	
GTTG	e P	Z 12:57:11.5	57.7	235.6	1.4	101	5.7		
ROTZ	e P	Z 12:57:12.0	57.9	238.7	1.9	119	5.6		
WET	e P	Z 12:57:12.2	58.0	239.7	1.8	69	5.4		
MANZ	e P	Z 12:57:12.7	58.0	238.5	1.9	84	5.5		
MOX	e P	Z 12:57:13.2	58.1	237.7	1.8	90	5.5		
CLZ	e P	Z 12:57:13.0	58.1	235.8	1.9	75	5.4		
WERN	e P	Z 12:57:14.8	58.3	238.6	1.5	98	5.6		
GEC2	e P	Z 12:57:14.6	58.3	240.7	1.8	79	5.4		
GUNZ	e P	Z 12:57:14.9	58.3	238.5	1.8	134	5.7		
NRDL	e P	Z 12:57:15.0	58.3	235.2	1.4	79	5.5		
WERD	e P	Z 12:57:15.0	58.3	238.5	1.8	123	5.6		
TANN	e P	Z 12:57:15.6	58.4	238.6	1.5	107	5.7		
	e PcP	Z 12:58:09.5							
FBE	e P	Z 12:57:20.7	59.2	239.2	1.8	113	5.6		
CLL	e P	Z 12:57:20.6	59.2	238.7	1.6	39	5.2		
	e PcP	Z 12:58:12.4							
BSEG	e P	Z 12:57:20.8	59.2	234.7	1.5	215	5.9		
BRG	e P	Z 12:57:22.8	59.4	239.8	1.6	74	5.5		
RUE	e P	Z 12:57:27.8	60.2	238.9	1.3	109	5.7		

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/30 16:38: 4.3 15.060S 73.060W 107.6 5.8  
 Southern Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z 16:40:07.4	94.7	252.1	1.5	95	6.0		

BUG	e P	Z	16:40:12.1	95.9	253.1	1.3	52	5.9
TNS	e P	Z	16:40:14.1	96.2	253.9	1.4	38	5.7
IBBN	e P	Z	16:40:14.9	96.4	253.6	1.1	35	5.8
UBBA	e P	Z	16:40:19.1	97.3	255.1	1.7	46	5.8
FUR	e P	Z	16:40:20.3	97.5	255.7	1.5	68	6.1
GTTG	e P	Z	16:40:21.3	97.5	255.2	1.2	32	5.8
GRA1	e P	Z	16:40:21.9	97.8	255.9	1.6	49	6.0
CLZ	e P	Z	16:40:21.8	97.8	255.5	1.4	45	6.0
NRDL	e P	Z	16:40:21.8	97.8	255.4	1.7	52	6.0
MOX	e P	Z	16:40:23.5	98.3	256.3	1.8	44	5.9
BSEG	e P	Z	16:40:23.3	98.3	255.8	1.6	39	5.9
MANZ	e P	Z	16:40:24.5	98.4	256.6	1.3	35	5.9
ROTZ	e P	Z	16:40:24.5	98.4	256.6	1.4	36	5.9
GUNZ	e P	Z	16:40:25.5	98.7	256.8	1.7	34	5.8
WERD	e P	Z	16:40:25.5	98.7	256.8	1.5	26	5.7
WERN	e P	Z	16:40:25.8	98.7	256.8	2.0	50	5.9
WET	e P	Z	16:40:25.2	98.7	257.0	1.5	25	5.7
TANN	e P	Z	16:40:26.0	98.8	256.9	1.4	30	5.8
GEC2	e P	Z	16:40:27.3	99.2	257.6	1.3	11	5.4
	e pP	Z	16:40:55.5					
CLL	e P	Z	16:40:27.9	99.3	257.5	1.6	37	5.9
FBE	e P	Z	16:40:28.7	99.4	257.7	1.3	30	5.9
BRG	e P	Z	16:40:30.2	99.8	258.1	1.3	23	5.6
RUE	e P	Z	16:40:32.0	100.0	258.3	1.5	34	5.8

Date Origin Time Lat Long Depth mb Ms ML Source  
 2006/09/30 17:50:32.3 47.001N 152.645E 33.0N 6.3 6.9  
 Kuril Islands, Russia SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	18:02:05.8	74.1	25.7	0.9	242	6.2		
RUE	e P	Z	18:02:07.9	74.5	27.7	1.0	402	6.4		
NRDL	e P	Z	18:02:13.5	75.5	25.4	2.5	1775	6.8		
CLL	e P	Z	18:02:14.2	75.8	27.1	0.9	378	6.5		
	e PP	Z	18:05:07.2							
	e PPPP	Z	18:08:00.4							
	e S	E	18:11:58.9							
	e PS	N	18:12:33.2							
	e SS	N	18:17:07.8							
	e SSS	N	18:20:33.3							
	e LQ	T	18:25:54.8							
	e LR	Z	18:27:07.5							
	e L	Z	18:39:16.9			20.0	54277		6.9	
BRG	e P	Z	18:02:15.4	75.9	27.7	1.0	131	6.0		
FBE	e P	Z	18:02:16.2	76.0	27.3	1.0	248	6.3		
CLZ	e P	Z	18:02:16.7	76.0	25.5	1.0	368	6.5		
IBBN	e P	Z	18:02:17.7	76.3	23.8	1.0	225	6.3		

GTTG	e P	Z	18:02:19.3	76.4	25.2	1.1	191	6.1	
TANN	e P	Z	18:02:20.2	76.7	26.7	1.4	164	6.0	
WERD	e P	Z	18:02:20.3	76.7	26.6	1.0	145	6.0	
MOX	e P	Z	18:02:20.6	76.7	26.1	2.6	1692	6.7	
GUNZ	e P	Z	18:02:20.8	76.8	26.6	1.1	227	6.2	
WERN	e P	Z	18:02:21.1	76.9	26.6	1.0	209	6.2	
UBBA	e P	Z	18:02:21.4	77.0	25.1	2.0	428	6.2	
BUG	e P	Z	18:02:22.2	77.2	23.4	1.5	528	6.5	
MANZ	e P	Z	18:02:23.0	77.2	26.4	0.9	139	6.1	
ROTZ	e P	Z	18:02:24.3	77.4	26.4	1.0	184	6.1	
GRA1	e P	Z	18:02:26.2	77.7	25.8	1.0	345	6.4	
	e S	T	18:12:19.9						
	e L	Z	18:40:44.0			19.7	51786		6.9
WET	e P	Z	18:02:26.2	77.7	26.8	1.0	237	6.3	
GEC2	e P	Z	18:02:26.5	77.7	27.3	1.0	103	5.9	
TNS	e P	Z	18:02:27.5	78.0	24.1	1.0	228	6.3	
FUR	e P	Z	18:02:33.5	79.1	25.7	1.1	359	6.3	
WLF	e P	Z	18:02:34.4	79.1	22.5	2.1	492	6.2	
BFO	e P	Z	18:02:36.9	79.7	23.8	0.9	196	6.0	

Date 2006/09/30 Origin Time 17:56:27.0 Lat 47.840N Long 151.690E Depth 33.0G mb 6.1 Ms ML Source SZGRF  
Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	18:07:57.7	73.1	26.0	2.3	453	6.2		
	e		18:08:11.3							
RUE	e P	Z	18:07:59.5	73.5	28.0	2.2	707	6.3		
NRDL	e P	Z	18:08:05.2	74.5	25.7	2.3	424	6.1		
CLL	e P	Z	18:08:06.2	74.7	27.3	2.4	771	6.3		
BRG	e P	Z	18:08:07.2	74.8	27.9	1.9	216	5.8		
FBE	e P	Z	18:08:08.1	75.0	27.5	2.3	620	6.2		
CLZ	e P	Z	18:08:08.6	75.0	25.7	2.4	1078	6.4		
	e		18:08:22.2							
IBBN	e P	Z	18:08:09.6	75.2	24.1	1.3	197	6.1		
GTTG	e P	Z	18:08:11.4	75.4	25.4	2.3	584	6.3		
TANN	e P	Z	18:08:12.4	75.7	26.9	1.9	229	6.0		
WERD	e P	Z	18:08:12.3	75.7	26.8	2.4	531	6.2		
MOX	e P	Z	18:08:12.4	75.7	26.4	2.3	595	6.3		
	e		18:08:26.1							
GUNZ	e P	Z	18:08:12.8	75.8	26.8	2.4	613	6.3		
WERN	e P	Z	18:08:13.1	75.8	26.8	2.4	637	6.3		
UBBA	e P	Z	18:08:13.9	76.0	25.4	2.4	525	6.2		
	e		18:08:27.4							
BUG	e P	Z	18:08:14.8	76.2	23.7	1.0	98	5.9		
	e		18:08:28.8							
MANZ	e P	Z	18:08:15.1	76.2	26.6	2.3	399	6.1		



./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

89

ROTZ	e P	Z	18:08:16.3	76.3	26.7	2.4	649	6.3
GRA1	e P	Z	18:08:18.3	76.7	26.0	1.1	117	5.9
	e		18:08:31.9					
GRFO	e P	Z	18:08:18.4	76.7	26.0	1.1	110	5.9
WET	e P	Z	18:08:18.3	76.7	27.0	1.1	81	5.8
GEC2	e P	Z	18:08:17.9	76.7	27.5	2.3	322	6.0
TNS	e P	Z	18:08:19.5	77.0	24.3	1.5	157	5.9
FUR	e P	Z	18:08:25.5	78.0	25.9	1.2	170	6.0
WLF	e P	Z	18:08:25.9	78.1	22.8	2.2	432	6.2
	e		18:08:39.5					
BFO	e P	Z	18:08:29.0	78.7	24.1	1.2	67	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	18:05:56.8	46.796N	152.692E	42.7	4.9			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:17:51.8	77.9	25.9	0.9	9	4.9		
	e	18:18:03.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	18:25:28.4	47.567N	152.582E	33.0N	5.1			SZGRF
Kuril Islands, Russia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:36:58.8	73.6	25.5	0.9	18	5.1		
RUE	e P	Z 18:37:01.1	74.0	27.5	0.9	23	5.2		
NRDL	e P	Z 18:37:06.3	74.9	25.2	1.0	14	4.9		
CLL	e P	Z 18:37:07.6	75.2	26.9	0.7	40	5.7		
BRG	e P	Z 18:37:08.6	75.3	27.4	1.0	9	4.8		
CLZ	e P	Z 18:37:09.9	75.5	25.3	0.8	29	5.5		
FBE	e P	Z 18:37:09.4	75.5	27.1	0.7	18	5.3		
IBBN	e P	Z 18:37:10.9	75.7	23.6	0.8	21	5.3		
GTTG	e P	Z 18:37:12.6	75.8	25.0	1.2	21	5.1		
TANN	e P	Z 18:37:13.6	76.2	26.5	1.0	6	4.7		
WERD	e P	Z 18:37:13.7	76.2	26.4	1.2	12	4.9		
MOX	e P	Z 18:37:13.8	76.2	25.9	0.9	16	5.2		
GUNZ	e P	Z 18:37:14.3	76.3	26.4	0.8	14	5.2		
WERN	e P	Z 18:37:14.5	76.3	26.4	0.7	21	5.4		
UBBA	e P	Z 18:37:14.9	76.5	24.9	0.9	7	4.8		
BUG	e P	Z 18:37:16.0	76.6	23.2	1.2	29	5.3		
MANZ	e P	Z 18:37:16.6	76.7	26.2	1.1	17	5.1		
ROTZ	e P	Z 18:37:17.4	76.8	26.2	0.9	12	5.1		
GRA1	e P	Z 18:37:19.4	77.2	25.6	0.7	30	5.5		
WET	e P	Z 18:37:19.6	77.2	26.6	0.9	19	5.2		

./2006/bul0609.txt

Thu Apr 23 08:38:25 2020

90

GEC2	e P	Z	18:37:19.4	77.2	27.1	0.8	6	4.8
TNS	e P	Z	18:37:20.6	77.4	23.9	0.8	13	5.1
FUR	e P	Z	18:37:26.8	78.5	25.5	1.0	28	5.3
BFO	e P	Z	18:37:30.1	79.2	23.7	1.1	18	4.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	18:33:53.0	47.763N	151.811E	33.0N	5.6			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 18:45:20.8	73.2	25.9	1.0	54	5.5		
RUE	e P	Z 18:45:23.1	73.6	27.9	1.0	95	5.8		
NRDL	e P	Z 18:45:28.6	74.6	25.6	0.9	44	5.5		
CLL	e P	Z 18:45:29.8	74.8	27.3	0.7	100	6.0		
BRG	e P	Z 18:45:30.4	74.9	27.8	1.2	30	5.2		
FBE	e P	Z 18:45:31.5	75.1	27.5	0.8	54	5.6		
CLZ	e P	Z 18:45:31.9	75.1	25.7	0.9	78	5.7		
IBBN	e P	Z 18:45:33.0	75.3	24.1	0.7	62	5.8		
GTTG	e P	Z 18:45:34.6	75.5	25.4	0.8	31	5.5		
TANN	e P	Z 18:45:35.4	75.8	26.9	1.5	32	5.2		
WERD	e P	Z 18:45:35.6	75.8	26.8	1.2	33	5.3		
MOX	e P	Z 18:45:35.7	75.8	26.3	1.2	67	5.7		
GUNZ	e P	Z 18:45:36.3	75.9	26.8	1.0	44	5.5		
WERN	e P	Z 18:45:36.3	75.9	26.8	0.8	50	5.7		
UBBA	e P	Z 18:45:37.1	76.1	25.3	1.0	21	5.2		
BUG	e P	Z 18:45:38.0	76.3	23.7	1.0	59	5.7		
MANZ	e P	Z 18:45:38.5	76.3	26.6	1.1	46	5.5		
ROTZ	e P	Z 18:45:39.6	76.4	26.6	1.0	42	5.5		
GRA1	e P	Z 18:45:41.7	76.8	26.0	0.9	100	6.0		
WET	e P	Z 18:45:41.6	76.8	27.0	0.9	54	5.7		
GEC2	e P	Z 18:45:41.1	76.8	27.5	0.9	22	5.3		
TNS	e P	Z 18:45:42.8	77.1	24.3	0.7	51	5.7		
FUR	e P	Z 18:45:48.9	78.1	25.9	1.0	75	5.8		
BFO	e P	Z 18:45:52.2	78.8	24.1	1.0	49	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	19:57:59.7	47.450N	151.260E	33.0N	4.9			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 20:09:31.3	73.4	26.4	0.9	9	4.8		
NRDL	e P	Z 20:09:38.1	74.7	26.1	0.9	7	4.7		
CLL	e P	Z 20:09:39.2	75.0	27.8	0.7	16	5.2		
BRG	e P	Z 20:09:40.1	75.1	28.3	0.9	4	4.5		
FBE	e P	Z 20:09:41.2	75.2	28.0	0.8	9	4.9		

CLZ	e P	Z	20:09:41.6	75.2	26.2	2.7	118	5.5
IBBN	e P	Z	20:09:42.7	75.5	24.5	1.1	18	5.1
WERD	e P	Z	20:09:45.3	75.9	27.2	1.1	6	4.6
MOX	e P	Z	20:09:45.2	75.9	26.8	1.1	8	4.8
GUNZ	e P	Z	20:09:45.9	76.0	27.3	1.0	7	4.7
WERN	e P	Z	20:09:46.1	76.0	27.3	0.7	9	5.0
MANZ	e P	Z	20:09:48.1	76.4	27.1	1.0	9	4.8
ROTZ	e P	Z	20:09:49.3	76.6	27.1	1.0	8	4.8
WET	e P	Z	20:09:51.4	76.9	27.5	0.9	11	5.0
GRA1	e P	Z	20:09:51.5	76.9	26.5	0.9	17	5.2
GEC2	e P	Z	20:09:51.0	76.9	27.9	0.8	4	4.6
TNS	e P	Z	20:09:52.4	77.2	24.8	0.7	11	5.1
BFO	e P	Z	20:10:01.6	79.0	24.5	1.1	11	4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	20:36: 8.5	46.016N	153.545E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:48:08.8	78.9	25.6	1.0	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	21:57:53.9	46.389N	153.321E	33.0N	4.4			SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:09:52.0	78.5	25.6	1.2	5	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2006/09/30	22:46: 8.6	36.473N	21.014E	33.0N	3.9			SZGRF

Southern Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z 22:49:31.5	14.0	151.9	1.0	8			
MANZ	e P	Z 22:49:42.8	15.0	151.2	0.8	7			
GRA1	e P	Z 22:49:43.7	15.0	148.1	1.2	24			
GUNZ	e P	Z 22:49:46.9	15.2	152.5	1.0	8			
FBE	e P	Z 22:49:48.3	15.5	156.3					
CLL	e P	Z 22:49:52.3	15.9	155.8	1.0	11	3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2006/09/30 23:12:54.9 48.870N 148.820E 33.0N 5.0 SZGRF  
 Northwest of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:24:14.7	71.4	27.4	0.9	9	4.9		
NRDL	e P	Z	23:24:21.9	72.7	27.0	0.9	5	4.6		
CLL	e P	Z	23:24:23.0	73.0	28.7	0.6	20	5.4		
BRG	e P	Z	23:24:24.2	73.1	29.2	3.2	89	5.3		
FBE	e P	Z	23:24:24.9	73.2	28.8	1.0	10	4.8		
CLZ	e P	Z	23:24:25.3	73.3	27.1	0.7	14	5.1		
IBBN	e P	Z	23:24:26.9	73.5	25.5	0.7	11	5.0		
GTTG	e P	Z	23:24:28.1	73.6	26.8	0.7	10	5.0		
WERD	e P	Z	23:24:29.3	73.9	28.1	1.0	7	4.6		
MOX	e P	Z	23:24:29.3	74.0	27.7	2.8	96	5.3		
GUNZ	e P	Z	23:24:29.7	74.0	28.1	0.8	8	4.8		
WERN	e P	Z	23:24:30.2	74.0	28.1	0.7	11	5.0		
UBBA	e P	Z	23:24:30.5	74.3	26.7	0.6	5	4.7		
BUG	e P	Z	23:24:32.0	74.5	25.1	1.0	14	4.9		
ROTZ	e P	Z	23:24:32.9	74.6	28.0	0.9	7	4.7		
WET	e P	Z	23:24:34.7	74.9	28.3	0.9	10	4.9		
GEC2	e P	Z	23:24:34.7	74.9	28.7	0.8	5	4.6		
GRA1	e P	Z	23:24:34.9	74.9	27.3	0.7	17	5.2		
TNS	e P	Z	23:24:36.0	75.2	25.7	0.8	10	5.0		
FUR	e P	Z	23:24:42.9	76.3	27.2	0.8	11	5.0		
WLF	e P	Z	23:24:43.7	76.4	24.2	1.9	37	5.2		

## Format description

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

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Additionally, some selected events are analysed more comprehensively at CLL-station and included in the bulletin (ISOP-analyses). Each event is reported by several EPICENTER LINES with possible COMMENT LINES, a REGION LINE and a block of PHASE LINES.

## EPICENTER LINES:

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

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

## COMMENT LINE:

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

## REGION LINE:

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

## PHASE LINE:

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