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

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

AUGUST 2004 UPDATED 16.FEBRUARY.2006

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

(Format desciption at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	06:59:21.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01	06:51: 0.3	38.907N	105.939W	33.0N	4.5			SZGRF

Colorado, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:02:42.1	75.6	314.4	1.2	4	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	11:49:06.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z	12:31:01.1							
	e (PP)	Z	12:34:58.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01	15:06: 1.2	43.207N	15.073E	10.0G			3.3	SZGRF

Adriatic Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
ARSA	e Pn	Z	15:07:02.3	4.1	184.6					
MOA	e Pn	Z	15:07:12.2	4.7	172.8					3.3
	e Sn	E	15:08:05.8							
GEC2	e Pn	Z	15:07:25.7	5.7	169.9					
	e Sn	N	15:08:28.0							
WET	e Pn	Z	15:07:31.0	6.1	164.8					
	e Sn	N	15:08:38.6							
WERD	e Pn	Z	15:07:49.9	7.5	164.3					
MOX	e Pn	Z	15:07:53.4	7.8	161.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:23:41.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01	19:03:12.0	63.600S	166.100W	33.0N		6.2		GSRC-M

Pacific-Antarctic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	19:23:13.2	166.0	184.9					
	e PKPab	Z	19:24:14.2							
	e PP	Z	19:28:01.3							
	e L	Z	20:50:19.1			20.9	3552		6.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/01	19:44:48.6	13.400S	112.800W	33.0N				GSRC-M

Central East Pacific Rise

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:03:41.8	121.9	288.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/02	00:07:10.7	33.592N	139.265E	33.0N	4.3			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:19:42.4	84.8	41.2	0.8	2	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	01:50:01.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/02	02:36:55.4	5.070S	102.670E	33.0N	5.6	4.7		SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	02:50:06.3	93.1	94.2	1.8	71	5.8		
GEC2	e P	Z	02:50:06.2	93.1	94.1	1.9	101	5.9		
	e PP	Z	02:53:48.1							
RUE	e P	Z	02:50:07.5	93.3	94.0	1.5	105	6.0		
WET	e P	Z	02:50:08.8	93.7	93.5	1.4	41	5.6		
CLL	e P	Z	02:50:08.7	93.7	93.4	1.4	26	5.4		
WERD	e P	Z	02:50:10.7	94.1	93.0	1.3	22	5.3		
	e PP	Z	02:53:57.4							
MOX	e P	Z	02:50:12.8	94.6	92.4	1.3	26	5.5		
	e PP	Z	02:54:00.8							
GRA1	e P	Z	02:50:14.1	94.8	92.2	1.5	59	5.8		
	e PP	Z	02:54:02.7							
	e L	Z	03:41:04.0			21.1	290		4.7	
CLZ	e P	Z	02:50:16.6	95.4	91.3	1.4	35	5.6		
BSEG	e P	Z	02:50:17.1	95.5	91.1	1.3	29	5.5		
	e PP	Z	02:54:07.6							
NRDL	e P	Z	02:50:17.6	95.6	91.1	1.6	43	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/02								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:03:10.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/02	10:50:50.9	0.639S	13.017W	33.0N	4.4			SZGRF

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:00:15.4	54.5	210.3	0.9	4	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/03	05:33:41.5	37.220N	28.240E	33.0G		4.1		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	05:37:23.5	15.7	132.4					
	e S	E	05:40:25.1							
	e L	Z	05:43:46.4			13.2	685		4.0	
WET	e P	Z	05:37:30.1	16.3	131.3					
	e S	Z	05:40:37.6							
	e L	Z	05:44:07.7			11.3	598		4.0	
FUR	e S	N	05:40:44.8	16.5	125.2					
	e L	Z	05:44:21.2			10.5	783		4.2	
BRG	e P	Z	05:37:41.0	17.0	137.8					
GRA1	e P	Z	05:37:45.0	17.5	129.1					
	e S	E	05:41:06.0							
	e S	Z	05:41:09.0							
	e L	Z	05:44:55.5			13.4	604		4.0	
CLL	e P	Z	05:37:48.1	17.7	136.6					
	e S	E	05:41:10.8							
MOX	e P	Z	05:37:49.4	17.9	132.2					
	e S	Z	05:41:15.8							
	e L	Z	05:45:14.9			9.5	636		4.2	
STU	e P	Z	05:37:50.1	18.0	122.8					
	e S	Z	05:41:16.9							
	e L	Z	05:45:14.9			13.2	620		4.1	
BFO	e P	Z	05:37:53.2	18.3	120.1					
	e S	Z	05:41:21.8							
CLZ	e P	Z	05:38:05.5	19.3	132.3					
	e S	Z	05:41:43.2							
NRDL	e P	Z	05:38:09.8	19.8	133.1					
	e S	N	05:41:54.4							
BUG	e P	Z	05:38:18.5	20.5	125.6					
BSEG	e P	Z	05:38:19.8	20.8	136.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/03	09:41:18.4	36.530N	27.570E	33.0G				SZGRF

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	09:45:02.3	15.9	135.4					
	e S	Z	09:48:06.2							
WET	e P	Z	09:45:07.6	16.5	134.2					
FUR	e S	Z	09:48:18.1	16.7	128.2					
BRG	e P	Z	09:45:21.3	17.3	140.6					
GUNZ	e P	Z	09:45:24.6	17.6	135.8					
GRA1	e P	Z	09:45:24.8	17.7	131.9					
	e S	Z	09:48:48.8							
WERD	e P	Z	09:45:25.3	17.7	136.0					
CLL	e P	Z	09:45:27.6	18.1	139.3					
	e S	Z	09:48:53.5							
STU	e S	Z	09:48:56.6	18.1	125.6					
MOX	e P	Z	09:45:28.5	18.2	134.9					
	e S	Z	09:48:56.9							
BFO	e S	Z	09:49:00.3	18.4	122.8					
CLZ	e P	Z	09:45:44.0	19.6	134.8					
	e S	Z	09:49:23.8							
NRDL	e P	Z	09:45:49.8	20.1	135.5					
	e S	Z	09:49:38.2							
WLF	e P	Z	09:45:53.9	20.3	122.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/03	13:11:37.9	37.170N	27.940E	33.0G		4.3		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	13:15:17.1	15.6	133.2					
	e S	Z	13:18:17.2							
	e L	Z	13:21:49.5			20.2	1565		4.2	
WET	e P	Z	13:15:24.2	16.2	132.0					
	e S	Z	13:18:32.3							
	e L	Z	13:22:09.8			18.7	1875		4.3	
FUR	e L	Z	13:22:03.9	16.4	126.0	22.0	2112		4.3	
BRG	e P	Z	13:15:34.3	16.9	138.6					
	e S	Z	13:18:51.2							
	e L	Z	13:21:43.3			21.6	1997		4.3	
GRA1	e P	Z	13:15:39.4	17.4	129.8					
	e S	Z	13:19:00.0							
	e L	Z	13:21:59.5			21.0	1642		4.3	
CLL	e P	Z	13:15:43.3	17.7	137.4					
	e S	Z	13:19:07.6							
MOX	e P	Z	13:15:44.5	17.8	132.9					
	e S	Z	13:19:08.8							
BFO	e P	Z	13:15:48.4	18.1	120.7					

	e S	Z	13:19:16.4			
CLZ	e P	Z	13:16:00.5	19.2	133.0	
	e S	Z	13:19:36.6			
NRDL	e P	Z	13:16:07.2	19.8	133.8	
	e S	N	13:19:49.2			
WLF	e P	Z	13:16:10.3	20.0	120.3	
	e S	E	13:19:54.8			
BUG	e P	Z	13:16:13.8	20.4	126.3	
BSEG	e P	Z	13:16:15.4	20.7	136.9	
	e S	N	13:20:06.8			
IBBN	e S	E	13:20:08.7	20.7	129.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	03:01:10.3	36.630N	27.440E	33.0G	5.0	4.9		SZGRF

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:04:52.5	15.8	135.6	1.5	216	5.1		
	e L	Z	03:11:24.4			20.3	5193		4.7	
WET	e P	Z	03:04:59.6	16.4	134.3	1.4	128	4.9		
	e L	Z	03:12:24.5			15.3	9456		5.1	
FUR	e P	Z	03:05:01.6	16.5	128.3	1.2	135	4.9		
	e S	N	03:08:12.5							
	e L	Z	03:11:06.3			27.1	8230		4.8	
BRG	e P	Z	03:05:09.7	17.2	140.7					
	e S	N	03:08:25.9							
	e L	Z	03:12:09.4			19.6	6965		4.9	
GUNZ	e P	Z	03:05:13.2	17.5	135.9					
GRA1	e P	Z	03:05:15.3	17.5	132.0	1.2	132	4.9		
	e S	E	03:08:36.7							
	e L	Z	03:11:41.5			21.1	5290		4.8	
WERD	e P	Z	03:05:14.9	17.6	136.1					
CLL	e P	Z	03:05:18.7	17.9	139.4					
	e S	N	03:08:44.2							
MOX	e P	Z	03:05:20.0	18.0	135.0					
	e S	N	03:08:47.3							
BFO	e P	Z	03:05:22.5	18.2	122.9	1.2	70	4.7		
	e S	N	03:08:52.3							
	e L	Z	03:12:41.7			23.5	5822		4.8	
RUE	e S	N	03:08:52.0	18.5	143.4					
CLZ	e P	Z	03:05:34.6	19.4	134.9	1.3	158	5.1		
	e S	E	03:09:15.1							
	e L	Z	03:12:39.6			19.7	6337		4.9	
NRDL	e P	Z	03:05:40.8	20.0	135.6					
	e S	N	03:09:24.9							
RGN	e P	Z	03:05:45.5	20.4	145.8					
	e S	E	03:09:33.0							

	BUG	e P	Z	03:05:47.1	20.6	128.1					
	BSEG	e P	Z	03:05:50.7	21.0	138.7	2.7	932	5.6		
		e S	E	03:09:46.4							
		e L	Z	03:15:50.4			16.8	8113		5.2	
	HLG	e P	Z	03:06:03.2	22.1	134.5					
		e S	N	03:10:04.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	03:13:26.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	03:49:37.4	37.080N	28.270E	33.0G				SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	E	03:53:20.4	15.8	132.6					
WET	e P	Z	03:53:27.9	16.4	131.5					
BRG	e P	Z	03:53:37.8	17.2	138.0					
GUNZ	e P	Z	03:53:41.7	17.5	133.3					
WERD	e P	Z	03:53:42.8	17.6	133.4					
GRA1	e P	Z	03:53:41.5	17.6	129.3					
	e S	N	03:57:03.9							
CLL	e P	Z	03:53:45.3	17.9	136.8					
	e S	N	03:57:10.5							
MOX	e P	Z	03:53:47.7	18.0	132.4					
	e S	N	03:57:12.0							
BFO	e P	Z	03:53:49.6	18.4	120.4					
	e S	N	03:57:18.4							
CLZ	e P	Z	03:54:02.0	19.4	132.5					
NRDL	e P	Z	03:54:06.8	20.0	133.3					
BUG	e P	Z	03:54:13.5	20.7	125.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	03:46:56.1	30.094S	49.035E	33.0N	4.9			SZGRF

South Indian Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	03:59:29.8	85.0	149.8	1.2	5	4.6		
FUR	e P	Z	03:59:30.8	85.3	147.9	1.1	28	5.4		
WET	e P	Z	03:59:31.4	85.5	149.2	1.4	13	5.0		

BFO	e P	Z	03:59:36.3	86.5	145.6	1.5	16	4.9
STU	e P	Z	03:59:37.1	86.5	146.3	1.1	12	4.9
GRA1	e P	Z	03:59:36.4	86.6	147.9	1.4	22	5.1
BRG	e P	Z	03:59:38.5	86.7	150.1	1.2	5	4.5
GUNZ	e P	Z	03:59:38.2	86.8	148.8	1.4	20	5.1
WERD	e P	Z	03:59:38.3	86.8	148.8	1.6	20	5.0
MOX	e P	Z	03:59:38.6	87.2	148.2	1.6	18	4.9
CLL	e P	Z	03:59:40.8	87.4	149.4	1.2	12	4.9
CLZ	e P	Z	03:59:48.6	88.7	147.3	1.6	12	5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BUG	e PKP	Z	04:06:55.3							
GEC2	e PKP	Z	04:06:49.6							
GRA1	e PKP	Z	04:06:51.8							
GUNZ	e PKP	Z	04:06:51.7							
RGN	e PKP	Z	04:06:51.7							
WERD	e PKP	Z	04:06:52.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	04:19:43.6	36.456N	28.915E	33.0G		4.3		SZGRF

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:23:32.3	16.6	132.5					
	e S	E	04:26:38.9							
	e L	Z	04:28:13.4							
WET	e P	Z	04:23:40.0	17.2	131.4					
	e S	E	04:26:55.7							
	e L	E	04:28:34.0							
	e L	Z	04:30:33.5			21.1	1531		4.2	
BRG	e P	Z	04:23:49.0	18.0	137.6					
	e S	E	04:27:10.1							
	e L	Z	04:29:58.9			21.2	2020		4.4	
GUNZ	e P	Z	04:23:55.6	18.3	133.1					
WERD	e P	Z	04:23:56.8	18.4	133.2					
GRA1	e P	Z	04:23:54.4	18.4	129.3					
	e S	E	04:27:18.6							
	e L	Z	04:31:19.4			19.9	1600		4.3	
CLL	e P	Z	04:23:58.8	18.7	136.5					
	e S	N	04:27:24.5							
	e L	Z	04:30:19.6			22.0	1902		4.3	
MOX	e P	Z	04:24:00.6	18.8	132.2					

	e L	Z	04:30:48.2			19.6	1758	4.4
STU	e P	Z	04:24:00.8	18.9	123.2			
	e L	Z	04:31:16.1			19.8	2139	4.5
BFO	e P	Z	04:24:03.2	19.2	120.6			
	e S	Z	04:27:37.2					
	e L	Z	04:31:24.4			20.2	1565	4.3
RUE	e P	Z	04:24:06.8	19.2	140.4			
	e L	Z	04:30:38.1			21.8	1419	4.2
CLZ	e P	Z	04:24:15.3	20.2	132.3			
	e L	Z	04:31:18.5			19.5	1898	4.5
NRDL	e P	Z	04:24:21.3	20.8	133.0			
	e S	N	04:28:08.6					
	e L	Z	04:31:22.7			21.3	1315	4.3
RGN	e P	Z	04:24:23.7	21.0	143.0			
	e L	Z	04:33:28.8			20.7	1359	4.3
WLF	e P	Z	04:24:24.2	21.1	120.1			
BUG	e P	Z	04:24:28.3	21.5	125.8			
BSEG	e P	Z	04:24:30.4	21.7	136.1			
	e S	N	04:28:25.1					
	e L	Z	04:32:27.1			21.6	1072	4.2
IBBN	e P	Z	04:24:31.6	21.7	128.4			
	e L	Z	04:33:32.1			21.6	1682	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	04:26: 0.2	33.250N	28.920E	121.3N	4.6			SZGRF

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	04:30:15.8	19.3	138.3	2.3	78	4.5		
BRG	e P	Z	04:30:31.6	20.7	142.4	1.0	15	4.3		
GUNZ	e P	Z	04:30:33.7	21.0	138.2	1.1	46	4.7		
GRA1	e P	Z	04:30:33.5	21.0	134.8	0.9	14	4.3		
WERD	e P	Z	04:30:35.1	21.1	138.3	0.9	20	4.5		
CLL	e P	Z	04:30:38.9	21.5	141.2	0.8	18	4.4		
CLZ	e P	Z	04:30:54.6	22.9	136.9	1.3	24	4.6		
NRDL	e P	Z	04:30:59.8	23.5	137.5	1.9	45	4.7		
RGN	e P	Z	04:31:02.9	24.0	146.4	1.1	58	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	09:48:42.0	53.780N	159.056E	33.0N	5.5	5.1		SZGRF

Near east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	09:59:46.4	69.2	19.1	1.8	106	5.7		
RUE	e P	Z	09:59:50.5	69.9	21.0					

NRDL	e P	Z	09:59:54.6	70.6	18.8				
CLL	e P	Z	09:59:57.3	71.1	20.4	1.5	62	5.5	
CLZ	e P	Z	09:59:58.4	71.2	18.9	1.6	92	5.7	
IBBN	e P	Z	09:59:58.6	71.2	17.4				
BRG	e P	Z	09:59:58.5	71.3	20.9	1.9	47	5.3	
MOX	e P	Z	10:00:03.0	72.1	19.5	1.6	50	5.4	
WERD	e P	Z	10:00:03.5	72.1	19.9				
GUNZ	e P	Z	10:00:03.9	72.2	19.9				
GRA1	e P	Z	10:00:09.1	73.0	19.2	1.7	111	5.7	
	e L	Z	10:38:36.6			18.2	878		5.1
WET	e P	Z	10:00:10.1	73.2	20.1	1.7	67	5.4	
GEC2	e P	Z	10:00:10.1	73.3	20.5	1.6	38	5.2	
STU	e P	Z	10:00:16.5	74.3	17.9				
FUR	e P	Z	10:00:17.4	74.5	19.1	1.3	50	5.4	
BFO	e P	Z	10:00:19.6	74.9	17.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	11:03:46.1	54.105N	158.492E	48.7	5.7	5.4		SZGRF

Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	11:14:40.7	67.6	21.2	1.4	276	6.3		
BSEG	e P	Z	11:14:48.0	68.8	19.4	1.7	170	6.0		
RUE	e P	Z	11:14:51.4	69.5	21.2	1.2	118	5.9		
NRDL	e P	Z	11:14:56.1	70.2	19.1	1.6	76	5.6		
CLL	e P	Z	11:14:58.5	70.7	20.6	1.4	96	5.8		
CLZ	e P	Z	11:14:59.8	70.8	19.1	1.5	154	5.9		
IBBN	e P	Z	11:15:00.0	70.8	17.7	2.2	353	6.1		
BRG	e P	Z	11:14:59.8	70.9	21.1	1.3	42	5.4		
MOX	e P	Z	11:15:04.5	71.6	19.7	1.8	96	5.6		
WERD	e P	Z	11:15:04.9	71.7	20.1	1.5	76	5.6		
GUNZ	e P	Z	11:15:05.4	71.7	20.1	1.7	98	5.7		
BUG	e P	Z	11:15:05.1	71.8	17.3	2.0	164	5.8		
GRA1	i P	Z	11:15:10.7	72.6	19.4	1.7	153	5.9		
	e pP	Z	11:15:24.6							
	e L	Z	11:53:37.8			18.5	1735		5.4	
WET	e P	Z	11:15:11.5	72.8	20.3	1.6	95	5.7		
GEC2	e P	Z	11:15:11.6	72.9	20.7	1.5	49	5.4		
WLF	e P	Z	11:15:16.8	73.7	16.5	2.1	162	5.7		
STU	e P	Z	11:15:17.6	73.9	18.2	1.8	66	5.4		
FUR	e P	Z	11:15:18.6	74.1	19.3	1.9	203	5.8		
BFO	e P	Z	11:15:21.0	74.5	17.6	2.0	92	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	14:18:51.5	36.790N	27.930E	33.0G	4.8	4.9		SZGRF

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:22:33.5	15.9	134.0	1.4	100	4.7		
	e S	Z	14:25:37.5							
WET	e P	Z	14:22:42.1	16.5	132.9	1.6	109	4.7		
	e S	Z	14:25:52.7							
FUR	e P	Z	14:22:44.5	16.7	126.9					
BRG	e P	Z	14:22:51.8	17.3	139.3	1.0	62	4.7		
	e S	Z	14:26:12.5							
GRA1	e P	Z	14:22:56.3	17.7	130.6	1.0	43	4.5		
	e S	Z	14:26:23.1							
	e L	Z	14:30:09.5			13.8	4693		4.9	
CLL	e P	Z	14:23:00.2	18.0	138.1	0.8	50	4.7		
	e S	Z	14:26:23.5							
MOX	e P	Z	14:23:02.0	18.1	133.6	1.1	66	4.7		
	e S	Z	14:26:27.0							
STU	e P	Z	14:23:02.2	18.1	124.3					
	e S	Z	14:26:32.0							
BFO	e P	Z	14:23:05.2	18.4	121.6					
	e S	Z	14:26:33.2							
RUE	e P	Z	14:23:06.1	18.6	142.1	0.8	69	4.9		
	e S	Z	14:26:38.7							
CLZ	e P	Z	14:23:18.0	19.5	133.6					
NRDL	e P	Z	14:23:24.8	20.1	134.4	1.4	84	4.8		
	e S	Z	14:27:09.8							
RGN	e P	Z	14:23:25.9	20.4	144.6					
	e S	Z	14:27:13.3							
IBBN	e P	Z	14:23:33.7	21.0	129.6					
	e S	Z	14:27:29.3							
BSEG	e P	Z	14:23:34.1	21.0	137.5	2.3	419	5.4		
HLG	e P	Z	14:23:44.0	22.2	133.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	16:45:28.2	19.470S	178.060W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	17:05:00.3	144.9	13.8					
RUE	e PKPbc	Z	17:05:03.0	145.7	20.1					
NRDL	e PKPbc	Z	17:05:05.0	146.4	14.0					
IBBN	e PKPbc	Z	17:05:06.6	146.9	10.1					
CLZ	e PKPbc	Z	17:05:07.2	147.0	14.7					
CLL	e PKPbc	Z	17:05:07.1	147.0	19.4					
BRG	e PKPbc	Z	17:05:07.9	147.2	21.2					
WERD	e PKPbc	Z	17:05:10.0	147.9	18.6					
GUNZ	e PKPbc	Z	17:05:10.4	148.0	18.7					

GRA1	e PKPbc	Z	17:05:12.9	148.9	17.1
	e PKPab	Z	17:05:15.7		
GEC2	e PKPbc	Z	17:05:13.3	149.1	22.0
WLF	e PKPbc	Z	17:05:15.0	149.6	7.9
	e PKPab	Z	17:05:18.9		
FUR	e PKPbc	Z	17:05:16.1	150.3	18.0
	e PKPab	Z	17:05:22.2		
BFO	e PKPbc	Z	17:05:17.1	150.7	12.4
	e PKPab	Z	17:05:23.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	20:05:41.6	55.172N	154.874E	33.0N	4.9			SZGRF

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	20:16:33.0	67.1	21.1	1.3	17	5.1		
NRDL	e P	Z	20:16:41.1	68.5	20.7					
CLL	e P	Z	20:16:43.7	68.9	22.2	1.1	15	5.2		
CLZ	e P	Z	20:16:44.9	69.0	20.8	1.2	16	5.1		
BRG	e P	Z	20:16:44.8	69.1	22.7	1.4	9	4.8		
MOX	e P	Z	20:16:49.0	69.8	21.3	1.5	8	4.6		
WERD	e P	Z	20:16:50.2	69.9	21.7					
GUNZ	e P	Z	20:16:50.5	69.9	21.7					
BUG	e P	Z	20:16:50.8	70.0	19.0					
GRA1	e P	Z	20:16:55.4	70.8	21.0	1.6	33	5.2		
WET	e P	Z	20:16:56.6	70.9	21.8	1.0	9	4.8		
GEC2	e P	Z	20:16:56.4	71.0	22.3	1.4	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	21:15:27.6	53.902N	158.279E	33.0N	5.5	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	21:26:30.3	69.0	19.6	1.4	94	5.8		
RUE	e P	Z	21:26:33.6	69.6	21.4					
NRDL	e P	Z	21:26:38.4	70.4	19.3					
CLL	e P	Z	21:26:40.8	70.9	20.8	1.2	92	5.8		
CLZ	e P	Z	21:26:42.1	70.9	19.3	1.3	121	5.9		
IBBN	e P	Z	21:26:42.3	71.0	17.9					
BRG	e P	Z	21:26:42.1	71.0	21.3	1.3	43	5.4		
MOX	e P	Z	21:26:46.8	71.8	19.9	1.3	43	5.4		
WERD	e P	Z	21:26:47.1	71.8	20.3					
GUNZ	e P	Z	21:26:47.6	71.9	20.3					
BUG	e P	Z	21:26:47.4	71.9	17.5					
GRA1	i P	Z	21:26:53.0	72.8	19.6	1.1	67	5.7		

	e S	N	21:36:22.7						
	e L	Z	22:05:05.0			19.2	2355		5.5
WET	e P	Z	21:26:53.7	72.9	20.5	1.3	62	5.6	
GEC2	e P	Z	21:26:53.8	73.0	20.9	1.2	32	5.3	
FUR	e P	Z	21:27:00.9	74.2	19.5	1.0	40	5.4	
BFO	e P	Z	21:27:03.3	74.7	17.8	1.1	21	5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/04	22:56:10.0	52.457N	160.566E	33.0N	4.7			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	23:07:23.5	70.8	18.7	1.1	9	4.8		
CLL	e P	Z	23:07:34.3	72.7	20.0					
CLZ	e P	Z	23:07:35.3	72.7	18.5	1.5	19	5.0		
BRG	e P	Z	23:07:35.4	72.9	20.5					
MOX	e P	Z	23:07:40.0	73.6	19.1	1.2	6	4.5		
WERD	e P	Z	23:07:40.4	73.7	19.5					
BUG	e P	Z	23:07:41.0	73.7	16.6					
GUNZ	e P	Z	23:07:40.5	73.7	19.5					
GRA1	e P	Z	23:07:46.2	74.6	18.8	1.5	19	4.9		
WET	e P	Z	23:07:46.8	74.8	19.7	1.4	11	4.7		
GEC2	e P	Z	23:07:47.2	74.9	20.2	1.4	8	4.5		
FUR	e P	Z	23:07:54.2	76.0	18.7					
BFO	e P	Z	23:07:55.6	76.5	17.0	1.1	6	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05	01:46:40.0	14.000N	149.250E	33.0G		5.4		SZGRF

Mariana Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PP	Z	02:04:45.4	102.0	43.6					
BSEG	e PP	Z	02:04:58.8	103.6	41.0					
BRG	e PP	Z	02:05:04.3	104.3	44.8					
CLL	e Pdiff	Z	02:00:45.0	104.4	43.9					
	e PP	Z	02:05:04.8							
	e L	Z	02:50:50.7			19.8	1430		5.5	
NRDL	e PP	Z	02:05:08.6	104.8	41.0					
CLZ	e PP	Z	02:05:10.0	105.2	41.4					
MOX	e PP	Z	02:05:14.2	105.5	42.7					
	e L	Z	02:51:32.5			20.1	1083		5.4	
GEC2	e PP	Z	02:05:15.1	105.9	44.9					
WET	e PP	Z	02:05:16.8	106.0	44.2					
GRA1	e Pdiff	Z	02:00:55.4	106.4	42.6					
	e PP	Z	02:05:20.3							

	e L	Z	02:51:59.4			19.2	1321		5.5
FUR	e PP	Z	02:05:28.1	107.5	42.9				
STU	e PP	Z	02:05:32.8	108.0	40.9				
BFO	e PP	Z	02:05:34.8	108.7	40.2				
	e L	Z	02:57:50.4			18.3	967		5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05	07:13:38.7	37.077N	27.661E	23.0G	3.7			kan

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	07:17:26.1	15.5	134.1	0.9	5	3.6		
BRG	e P	Z	07:17:44.0	16.9	139.4	0.7	4	3.7		
GUNZ	e P	Z	07:17:47.6	17.2	134.6					
WERD	e P	Z	07:17:47.8	17.3	134.7	0.9	7	3.8		
CLL	e P	Z	07:17:51.2	17.6	138.2	0.9	8	3.8		
MOX	e P	Z	07:17:50.6	17.8	133.7	1.0	6	3.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05	10:30: 6.0	36.882N	27.756E	13.0G	4.1			kan

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	10:33:53.5	15.7	134.3	1.0	10	3.9		
WET	e P	Z	10:34:02.1	16.3	133.1	1.5	16	3.9		
BRG	e P	Z	10:34:13.5	17.1	139.5	0.9	14	4.1		
GUNZ	e P	Z	10:34:16.9	17.4	134.8	0.9	29	4.4		
GRA1	e P	Z	10:34:17.1	17.5	130.8	0.8	9	4.0		
WERD	e P	Z	10:34:17.8	17.5	134.9	0.9	18	4.2		
CLL	e P	Z	10:34:20.9	17.8	138.3	0.9	18	4.2		
MOX	e P	Z	10:34:19.7	18.0	133.8	1.3	17	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05	18:23:33.6	35.510N	140.290E	97.0	5.0			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	18:35:36.8	80.5	41.6	0.9	21	5.2		
BSEG	e P	Z	18:35:37.5	80.7	39.2	1.2	18	5.0		
BRG	e P	Z	18:35:42.1	81.6	41.5	1.0	10	4.9		
	e pP	Z	18:36:07.8							
CLL	e P	Z	18:35:42.2	81.7	40.9	0.9	18	5.2		
NRDL	e P	Z	18:35:43.6	81.9	38.9	1.0	7	4.8		

CLZ	e P	Z	18:35:46.1	82.3	39.1	1.1	15	5.1	
WERD	e P	Z	18:35:47.3	82.6	40.3	1.5	9	4.8	
GUNZ	e P	Z	18:35:47.9	82.7	40.3	1.4	10	4.9	
	e pP	Z	18:36:12.8						
MOX	e P	Z	18:35:47.8	82.7	39.8	1.2	6	4.7	
IBBN	e P	Z	18:35:48.9	82.9	37.2	0.5	15	5.5	
GEC2	e P	Z	18:35:50.3	83.2	41.2	1.1	5	4.7	
WET	e P	Z	18:35:51.8	83.3	40.6	1.3	10	4.9	
GRA1	e P	Z	18:35:52.9	83.6	39.5	1.1	23	5.3	
STU	e P	Z	18:36:00.2	85.2	38.0	0.8	15	5.3	
WLF	e P	Z	18:36:03.3	85.6	35.9	1.3	14	4.9	
BFO	e P	Z	18:36:03.7	85.9	37.4	1.0	10	4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05	20:41:49.2	31.873N	46.394E	50.0G	4.7			gsrc-m

Iraq

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	20:47:55.7	30.4	112.1	1.9	12	4.4		
FUR	e P	Z	20:48:01.8	31.0	108.7	0.5	14	5.2		
GRA1	e P	Z	20:48:07.3	31.6	111.0	1.1	18	4.9		
CLZ	e P	Z	20:48:18.9	32.9	113.2	0.7	5	4.6		
NRDL	e P	Z	20:48:23.0	33.3	113.8	0.9	3	4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05	21:51:21.3	22.990N	44.460W	33.0G	5.3	4.5		SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	21:59:53.1	47.5	254.9	1.9	105	5.6		
BFO	e P	Z	22:00:01.9	48.6	258.0	1.4	55	5.4		
BUG	e P	Z	22:00:02.0	48.6	254.4	1.4	42	5.3		
IBBN	e P	Z	22:00:06.8	49.2	254.1					
STU	e P	Z	22:00:06.7	49.2	258.3	1.3	49	5.4		
FUR	e P	Z	22:00:16.6	50.5	260.6	1.8	69	5.3		
NRDL	e P	Z	22:00:17.5	50.6	256.1	1.5	66	5.4		
CLZ	e P	Z	22:00:17.2	50.6	256.9	1.4	32	5.1		
GRA1	e P	Z	22:00:17.9	50.7	259.3	1.5	65	5.3		
	e		22:00:32.3							
	e S	E	22:07:38.5							
	e L	Z	22:17:15.2			20.8	540		4.5	
BSEG	e P	Z	22:00:20.5	51.1	255.2	1.3	78	5.5		
MOX	e P	Z	22:00:21.1	51.1	258.9	1.5	41	5.1		
WERD	e P	Z	22:00:23.4	51.5	259.7	2.1	63	5.2		
GUNZ	e P	Z	22:00:24.2	51.5	259.8	2.1	96	5.4		

WET	e P	Z	22:00:24.7	51.7	261.2	1.5	35	5.1
CLL	e P	Z	22:00:28.4	52.1	259.6	1.5	43	5.2
GEC2	e P	Z	22:00:28.9	52.1	262.1	1.4	56	5.3
BRG	e P	Z	22:00:32.3	52.6	260.7	2.0	74	5.3
RUE	e P	Z	22:00:34.1	52.8	259.4	1.2	88	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/05								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pg	Z	22:11:47.1							
	e Sg	N	22:12:05.8							
GEC2	e Pg	Z	22:12:29.6							
WLF	e Pg	Z	22:11:31.9							
	e Sg	N	22:11:40.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06	00:59:29.3	15.800S	167.800E	80.0N				GSRC-M

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	01:18:47.2	141.2	37.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06	08:26:44.5	37.690N	137.720E	33.0N	4.6			SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	08:38:45.7	78.7	42.1	0.7	4	4.6		
CLL	e P	Z	08:38:45.4	78.7	41.5	0.9	9	4.8		
CLZ	e P	Z	08:38:49.2	79.4	39.8	1.2	15	4.8		
WERD	e P	Z	08:38:50.6	79.7	41.0	0.9	5	4.4		
GUNZ	e P	Z	08:38:51.0	79.7	41.0	1.0	8	4.6		
MOX	e P	Z	08:38:51.2	79.8	40.5	0.9	6	4.5		
GEC2	e P	Z	08:38:53.4	80.3	41.7	1.0	5	4.5		
WET	e P	Z	08:38:54.8	80.4	41.2	0.8	3	4.4		
GRA1	e P	Z	08:38:56.7	80.7	40.1	0.6	18	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06	08:50:43.1	34.836N	140.957E	33.0N	4.9			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:03:13.0	84.5	39.4	1.0	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:26:56.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06	14:34:50.1	11.630N	94.530E	33.0N	4.9			SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:46:29.9	75.1	89.8	0.9	10	4.8		
RUE	e P	Z	14:46:30.5	75.2	90.1	0.6	26	5.4		
GEC2	e P	Z	14:46:31.0	75.3	89.1	0.9	10	4.8		
CLL	e P	Z	14:46:32.9	75.7	89.2	1.2	13	4.9		
WET	e P	Z	14:46:33.7	75.8	88.6	1.1	10	4.8		
GUNZ	e P	Z	14:46:35.9	76.1	88.5	0.9	7	4.8		
WERD	e P	Z	14:46:35.9	76.1	88.5	1.2	10	4.8		
MOX	e P	Z	14:46:38.1	76.6	88.0	1.3	8	4.7		
GRA1	e P	Z	14:46:40.4	76.8	87.4	1.0	10	4.9		
BSEG	e P	Z	14:46:42.2	77.2	87.7	1.1	21	5.2		
CLZ	e P	Z	14:46:42.4	77.3	87.3	1.1	17	5.1		
NRDL	e P	Z	14:46:43.1	77.4	87.2	1.4	22	5.1		
IBBN	e P	Z	14:46:51.3	78.9	85.3	0.8	15	5.1		
WLF	e P	Z	14:46:57.8	80.1	83.6	1.2	14	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06	14:35:29.5	12.140N	94.120E	33.0G	5.9	5.2		SZGRF

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	14:47:05.4	74.4	89.8	1.3	136	5.8		
RUE	e P	Z	14:47:05.8	74.5	90.1	1.3	246	6.1		
GEC2	e P	Z	14:47:06.5	74.6	89.1	1.0	84	5.7		
CLL	e P	Z	14:47:08.5	75.0	89.2	1.4	118	5.7		
WET	e P	Z	14:47:09.7	75.1	88.5	1.3	103	5.7		
GUNZ	e P	Z	14:47:11.5	75.5	88.4	1.3	112	5.8		
WERD	e P	Z	14:47:11.3	75.5	88.4	1.3	82	5.7		
MOX	e P	Z	14:47:14.0	75.9	87.9	1.4	110	5.8		

GRA1	e P	Z	14:47:16.0	76.2	87.4	1.4	163	6.0	
	e		14:47:23.4						
	e PP	Z	14:50:16.9						
	e S	N	14:57:03.6						
	e L	Z	15:25:20.5			21.9	1366		5.2
FUR	e P	Z	14:47:17.0	76.2	87.1	1.5	154	5.9	
BSEG	e P	Z	14:47:17.7	76.6	87.7	1.2	206	6.1	
CLZ	e P	Z	14:47:17.9	76.6	87.3	1.4	188	6.0	
NRDL	e P	Z	14:47:19.2	76.8	87.2	1.5	221	6.1	
STU	e P	Z	14:47:24.2	77.6	85.7	1.1	62	5.6	
BFO	e P	Z	14:47:26.1	78.2	84.9	1.2	52	5.5	
IBBN	e P	Z	14:47:26.9	78.2	85.3	1.4	284	6.2	
BUG	e P	Z	14:47:28.9	78.6	84.8	1.3	227	6.0	
WLF	e P	Z	14:47:34.2	79.5	83.6	1.4	149	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06	19:12: 3.1	5.390S	102.610E	33.0N	5.0			SZGRF

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	19:25:14.9	93.3	94.4	1.5	14	5.2		
BRG	e P	Z	19:25:14.8	93.3	94.4	0.8	7	5.1		
WET	e P	Z	19:25:17.4	93.9	93.7	1.1	8	5.0		
CLL	e P	Z	19:25:17.5	94.0	93.7	1.1	7	4.9		
GUNZ	e P	Z	19:25:19.4	94.3	93.2	0.8	5	4.9		
WERD	e P	Z	19:25:19.4	94.3	93.2	0.8	5	4.9		
MOX	e P	Z	19:25:21.9	94.8	92.7	1.0	3	4.7		
GRA1	e P	Z	19:25:22.8	95.0	92.4	0.9	8	5.1		
CLZ	e P	Z	19:25:25.3	95.6	91.6	0.8	3	4.9		
BFO	e P	Z	19:25:30.8	96.9	90.4	1.0	3	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:43:42.8			0.9	2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/06								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:54:30.0							
	e		23:54:37.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/07	02:02:10.6	19.070N	79.872W	33.0N	4.9			SZGRF

Cuba region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	02:13:38.2	73.1	279.7					
IBBN	e P	Z	02:13:41.8	73.6	280.1					
BSEG	e P	Z	02:13:48.6	74.8	281.6	0.9	12	4.9		
NRDL	e P	Z	02:13:49.6	75.0	281.9					
CLZ	e P	Z	02:13:51.6	75.3	282.2	1.0	14	5.0		
GRA1	e P	Z	02:13:56.4	76.3	283.4	1.0	8	4.8		
	e		02:14:01.6							
MOX	e P	Z	02:13:56.7	76.3	283.5					
WERD	e P	Z	02:13:59.5	76.8	284.0					
GUNZ	e P	Z	02:13:59.4	76.8	284.1					
CLL	e P	Z	02:14:00.8	77.0	284.3					
WET	e P	Z	02:14:03.1	77.4	284.7	1.1	12	4.9		
BRG	e P	Z	02:14:04.3	77.7	285.1					
GEC2	e P	Z	02:14:06.5	78.0	285.4	1.2	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/07	09:30:30.0	52.948N	165.053W	33.0N	6.3	5.5		SZGRF

South of Aleutian Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	09:41:54.3	72.5	359.0	1.3	616	6.6		
HLG	e P	Z	09:41:55.8	72.7	355.5	1.5	828	6.7		
BSEG	e P	Z	09:41:57.5	73.0	357.1	1.2	392	6.4		
NRDL	e P	Z	09:42:05.5	74.5	357.0	1.2	317	6.2		
RUE	e P	Z	09:42:05.9	74.6	359.3	1.2	563	6.5		
IBBN	e P	Z	09:42:06.3	74.6	355.5	1.2	472	6.4		
CLZ	e P	Z	09:42:09.6	75.1	357.2	1.3	502	6.5		
BUG	e P	Z	09:42:10.6	75.4	355.2	1.3	375	6.4		
CLL	e P	Z	09:42:12.2	75.7	358.8	1.2	277	6.3		
BRG	e P	Z	09:42:14.9	76.2	359.4	1.3	305	6.3		
MOX	e P	Z	09:42:16.2	76.4	357.9	1.2	350	6.4		
WERD	e P	Z	09:42:17.5	76.6	358.4	1.3	189	6.1		
GUNZ	e P	Z	09:42:18.0	76.7	358.4	1.3	225	6.1		
WLF	e P	Z	09:42:20.9	77.1	354.6	1.3	295	6.3		
GRA1	i P	Z	09:42:21.7	77.3	357.7	1.2	580	6.6		
	e S	E	09:52:23.9							
	e P’P’	Z	10:09:07.4							
	e L	Z	10:15:11.3			23.3	2523		5.5	
WET	e P	Z	09:42:24.9	77.9	358.7	1.4	272	6.2		

STU	e P	Z	09:42:26.1	78.2	356.5	1.2	349	6.3
GEC2	e P	Z	09:42:26.2	78.2	359.2	1.2	260	6.1
BFO	e P	Z	09:42:28.2	78.6	355.9	1.2	236	6.1
FUR	e P	Z	09:42:30.0	78.8	357.7	1.2	567	6.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/07	11:49: 9.0	16.440N	95.460W	98.5	5.5	5.0		SZGRF

Oaxaca, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	12:01:33.4	84.8	289.4	1.4	100	5.9		
IBBN	e P	Z	12:01:33.2	84.8	290.4	1.1	95	5.9		
BUG	e P	Z	12:01:33.0	84.9	290.1	1.4	69	5.7		
BSEG	e P	Z	12:01:37.5	85.7	292.2	1.0	89	5.9		
NRDL	e P	Z	12:01:39.7	86.1	292.2	1.0	54	5.6		
CLZ	e P	Z	12:01:42.0	86.5	292.4	1.3	62	5.6		
BFO	e P	Z	12:01:41.4	86.6	291.1	1.1	31	5.3		
	e pP	Z	12:02:07.4							
STU	e P	Z	12:01:43.4	87.0	291.7	1.0	47	5.6		
MOX	e P	Z	12:01:46.9	87.7	293.4	2.0	68	5.6		
GRA1	e P	Z	12:01:48.6	87.8	293.2	1.4	46	5.6		
	e pP	Z	12:02:14.6							
	e PP	Z	12:05:11.6							
	e S	E	12:12:09.6							
	e L	Z	12:39:36.3			20.8	618		5.0	
WERD	e P	Z	12:01:49.3	88.2	294.0	1.2	18	5.3		
CLL	e P	Z	12:01:48.9	88.2	294.5	0.9	18	5.4		
GUNZ	e P	Z	12:01:49.9	88.2	294.0	1.2	21	5.4		
BRG	e P	Z	12:01:53.0	88.9	295.2	1.0	18	5.2		
	e PP	Z	12:05:18.9							
WET	e P	Z	12:01:54.0	89.0	294.4	1.0	14	5.2		
	e pP	Z	12:02:19.6							
GEC2	e P	Z	12:01:56.4	89.7	295.0	1.3	18	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/07	14:18:22.5	7.803S	98.929E	33.0N	6.2	4.9		SZGRF

Southwest of Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	14:31:31.4	92.7	98.7	1.4	333	6.6		
BRG	e P	Z	14:31:32.4	92.9	98.8	1.5	206	6.3		
RUE	e P	Z	14:31:33.9	93.2	98.6					
WET	e P	Z	14:31:34.0	93.3	98.1	1.2	170	6.4		
CLL	e P	Z	14:31:34.9	93.6	98.1	1.2	125	6.2		
	e PP	Z	14:35:19.6							

GUNZ	e P	Z	14:31:36.7	93.8	97.6					
WERD	e P	Z	14:31:36.6	93.9	97.6					
FUR	e P	Z	14:31:37.6	94.2	97.0	1.1	100	6.1		
MOX	e P	Z	14:31:38.8	94.3	97.0	1.3	131	6.1		
	e PP	Z	14:35:25.3							
GRA1	i P	Z	14:31:39.6	94.5	96.8	1.3	179	6.3		
	e SKSac	E	14:42:19.6							
	e SP	Z	14:43:55.9							
	e SS	E	14:48:53.2							
	e L	Z	15:14:27.3			19.6	423		4.9	
CLZ	e P	Z	14:31:43.1	95.2	96.0	1.2	128	6.2		
	e PP	Z	14:35:32.5							
NRDL	e P	Z	14:31:44.5	95.5	95.7					
	e PP	Z	14:35:34.0							
BSEG	e P	Z	14:31:44.5	95.5	95.7	1.4	107	6.1		
	e PP	Z	14:35:34.3							
STU	e P	Z	14:31:44.5	95.7	95.4					
BFO	e P	Z	14:31:46.6	96.2	94.8	1.8	62	5.8		
IBBN	e P	Z	14:31:50.8	96.9	93.9					
	e PP	Z	14:35:46.5							
BUG	e P	Z	14:31:51.6	97.1	93.6					
WLF	e P	Z	14:31:54.2	97.7	93.0					
	e PP	Z	14:35:50.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/08								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:30:20.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/08	09:20:24.6	20.010S	178.090W	650.0G				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	09:38:51.8	145.5	14.0					
RUE	e PKPbc	Z	09:38:53.7	146.3	20.4					
NRDL	e PKPbc	Z	09:38:55.5	146.9	14.2					
IBBN	e PKPbc	Z	09:38:56.9	147.4	10.2					
	e PKPab	Z	09:39:01.3							
CLZ	e PKPbc	Z	09:38:57.4	147.5	14.9					
CLL	e PKPbc	Z	09:38:57.0	147.5	19.7					
	e PKPab	Z	09:39:01.3							
BRG	e PKPbc	Z	09:38:57.7	147.7	21.5					
	e PKPab	Z	09:39:02.4							

BUG	e PKPbc	Z	09:38:59.0	148.3	9.6
MOX	e PKPbc	Z	09:38:59.5	148.4	17.6
WERD	e PKPbc	Z	09:38:59.5	148.5	18.9
	e PKPab	Z	09:39:05.7		
GUNZ	e PKPbc	Z	09:38:59.9	148.5	19.0
	e PKPab	Z	09:39:06.1		
GRA1	e PKPbc	Z	09:39:02.3	149.4	17.4
	e PKPab	Z	09:39:10.1		
	e pPKPbc	Z	09:41:29.4		
WET	e PKPbc	Z	09:39:02.1	149.6	20.7
	e PKPab	Z	09:39:10.7		
GEC2	e PKPbc	Z	09:39:02.2	149.7	22.3
	e PKPab	Z	09:39:10.8		
WLF	e PKPbc	Z	09:39:04.7	150.2	8.0
	e PKPab	Z	09:39:13.3		
STU	e PKPbc	Z	09:39:04.5	150.6	14.1
	e PKPab	Z	09:39:14.5		
FUR	e PKPbc	Z	09:39:04.7	150.8	18.3
	e PKPab	Z	09:39:15.9		
BFO	e PKPbc	Z	09:39:05.9	151.2	12.6
	e PKPab	Z	09:39:16.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/08	10:34:45.1	26.740S	179.340W	33.0N				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	10:54:36.9	151.9	18.5					
	e PKPab	Z	10:54:45.6							
CLL	e PKPbc	Z	10:54:41.0	153.7	25.5					
	e PKPab	Z	10:54:53.3							
BRG	e PKPbc	Z	10:54:41.1	153.8	27.7					
	e PKPab	Z	10:54:54.0							
CLZ	e PKPbc	Z	10:54:41.3	153.9	20.0					
	e PKPab	Z	10:54:54.3							
IBBN	e PKPab	Z	10:54:54.3	153.9	14.5					
MOX	e PKPab	Z	10:54:57.4	154.7	23.4					
GUNZ	e PKPab	Z	10:54:58.1	154.7	25.1					
GRA1	e PKPab	Z	10:55:01.9	155.7	23.4					
WET	e PKPab	Z	10:55:02.0	155.7	27.3					
GEC2	e PKPab	Z	10:55:01.9	155.7	29.3					
WLF	e PKPab	Z	10:55:06.6	156.7	12.5					
STU	e PKPab	Z	10:55:07.8	157.0	19.8					
FUR	e PKPab	Z	10:55:08.1	157.0	24.9					
BFO	e PKPab	Z	10:55:09.8	157.6	18.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/08	12:45:52.3	18.671N	93.521E	33.0N	5.2			SZGRF

Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	12:56:54.5	69.1	86.2					
BRG	e P	Z	12:56:54.9	69.1	85.8	0.6	14	5.4		
GEC2	e P	Z	12:56:57.5	69.4	84.8	0.8	16	5.2		
CLL	e P	Z	12:56:57.7	69.7	85.2	1.4	21	5.1		
WET	e P	Z	12:57:00.4	69.9	84.3	1.2	15	5.0		
GUNZ	e P	Z	12:57:01.7	70.2	84.4					
WERD	e P	Z	12:57:01.4	70.2	84.4					
MOX	e P	Z	12:57:03.9	70.6	83.9	1.1	13	5.0		
GRA1	e P	Z	12:57:06.9	71.0	83.3	1.6	50	5.4		
BSEG	e P	Z	12:57:06.1	71.0	84.1	0.9	32	5.5		
CLZ	e P	Z	12:57:07.5	71.2	83.4	1.3	32	5.3		
NRDL	e P	Z	12:57:08.4	71.3	83.4					
STU	e P	Z	12:57:15.5	72.4	81.5					
IBBN	e P	Z	12:57:16.6	72.8	81.5					
BUG	e P	Z	12:57:19.1	73.2	80.9					
WLF	e P	Z	12:57:26.3	74.2	79.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/09								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	01:19:23.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/09	09:48:59.2	47.310N	152.030E	33.0N	5.0			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
NRDL	e P	Z	10:00:40.4	75.0	25.6	0.9	7	4.7		
CLL	e P	Z	10:00:41.9	75.3	27.4	0.7	17	5.3		
BRG	e P	Z	10:00:41.9	75.4	27.9	0.8	5	4.7		
CLZ	e P	Z	10:00:43.8	75.6	25.7	0.9	14	5.1		
WERD	e P	Z	10:00:47.6	76.3	26.8	1.5	13	4.9		
MOX	e P	Z	10:00:47.7	76.3	26.4	1.1	12	4.9		
GUNZ	e P	Z	10:00:48.2	76.3	26.8	1.0	9	4.9		
BUG	e P	Z	10:00:49.9	76.7	23.7	0.5	11	5.2		
GRA1	e P	Z	10:00:53.7	77.3	26.1	0.7	31	5.5		
WET	e P	Z	10:00:52.9	77.3	27.0	0.9	10	4.9		
GEC2	e P	Z	10:00:53.2	77.3	27.5	1.0	5	4.6		

	BFO	e P	Z	10:01:04.0	79.3	24.1	1.2	20	4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/09	16:13: 5.2	26.727N	128.056E	33.0G	4.4	4.7		SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:25:38.5	85.3	53.1	0.9	3	4.4		
	e		16:25:48.7							
	e L	Z	17:20:01.5			20.9	328		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/09	16:49:36.8	27.697N	130.848E	33.0N	4.9			SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:37:36.9	85.9	50.5	1.0	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/09	16:49:42.8	27.838N	128.574E	33.0N	5.0			SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:02:13.5	84.6	52.1	1.0	9	5.0		
	e		17:02:21.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/09	20:36:24.9			N				GSRC-M

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z	20:49:49.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/10	01:47:39.5	36.540N	69.960E	217.2	5.5	5.1		SZGRF

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	01:55:08.1	41.8	87.7	1.2	82	5.3		

	e pP	Z	01:55:53.3						
RUE	e P	Z	01:55:08.7	41.9	89.3	1.1	106	5.5	
GEC2	e P	Z	01:55:10.9	42.1	85.2	1.8	74	5.1	
RGN	e P	Z	01:55:11.7	42.2	91.2	0.5	269	6.2	
CLL	e P	Z	01:55:12.2	42.4	87.4	1.6	109	5.3	
WET	e P	Z	01:55:14.6	42.6	85.0	2.7	219	5.4	
GUNZ	e P	Z	01:55:17.4	42.9	85.9	1.7	100	5.3	
WERD	e P	Z	01:55:17.4	42.9	86.0	1.6	89	5.2	
MOX	e P	Z	01:55:20.1	43.3	85.7	1.8	140	5.4	
GRA1	e P	Z	01:55:23.5	43.6	84.4	2.4	618	5.9	
	e PP	E	01:57:10.2						
	e S	N	02:01:45.6						
	e L	Z	02:05:53.5			20.1	2519		5.1
BSEG	e P	Z	01:55:24.8	43.9	88.2	1.0	101	5.5	
	e pP	Z	01:56:11.7						
CLZ	e P	Z	01:55:25.4	44.0	86.0	1.1	79	5.3	
NRDL	e P	Z	01:55:26.3	44.1	86.5	1.6	162	5.5	
	e pP	Z	01:56:13.1						
STU	e P	Z	01:55:34.5	45.1	82.1	1.1	73	5.5	
IBBN	e P	Z	01:55:38.4	45.6	84.6	0.9	90	5.8	
	e pP	Z	01:56:24.6						
BFO	e P	Z	01:55:38.2	45.7	81.1	1.1	27	5.2	
BUG	e P	Z	01:55:41.4	45.9	83.4	1.4	98	5.6	
	e pP	Z	01:56:27.8						
WLF	e P	Z	01:55:48.4	46.9	80.9	1.1	85	5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/10	02:31: 0.9	28.198N	57.609E	33.0N	4.8			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	02:38:26.8	39.3	105.3	0.9	16	4.6		
BRG	e P	Z	02:38:30.4	39.7	107.9	0.8	12	4.6		
WET	e P	Z	02:38:31.3	39.9	104.8	1.0	11	4.4		
RUE	e P	Z	02:38:36.0	40.4	109.5	0.6	25	5.0		
CLL	e P	Z	02:38:36.6	40.4	107.4	1.0	28	4.9		
MOX	e P	Z	02:38:41.9	41.1	105.3	0.8	8	4.5		
GRA1	e P	Z	02:38:41.9	41.1	103.9	0.9	37	5.1		
CLZ	e P	Z	02:38:51.2	42.2	105.4	0.9	42	5.2		
NRDL	e P	Z	02:38:53.9	42.5	105.9	1.0	21	4.8		
BSEG	e P	Z	02:38:55.8	42.8	107.6	0.8	13	4.7		
IBBN	e P	Z	02:39:05.0	43.8	103.4	1.0	34	5.0		
BUG	e P	Z	02:39:05.6	43.9	102.1	0.9	37	5.1		
WLF	e P	Z	02:39:07.8	44.3	99.3	0.8	19	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/10	05:37: 6.4	3.100S	150.400E	19.0N				NEIC-M

New Ireland, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	05:56:05.6	122.0	50.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/10	06:13:27.2	39.640N	142.770E	33.0N	6.0	5.2		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	06:25:15.5	76.4	37.7	0.9	263	6.4		
RUE	e P	Z	06:25:23.4	77.8	37.8	1.0	212	6.2		
BSEG	e P	Z	06:25:24.0	77.9	35.5	0.9	194	6.2		
BRG	e P	Z	06:25:30.0	79.0	37.7	0.9	116	5.9		
CLL	e P	Z	06:25:29.8	79.0	37.1	0.9	228	6.2		
NRDL	e P	Z	06:25:30.6	79.1	35.2	1.0	88	5.8		
CLZ	e P	Z	06:25:33.3	79.6	35.3	1.2	245	6.0		
WERD	e P	Z	06:25:35.3	80.0	36.5	1.0	87	5.6		
GUNZ	e P	Z	06:25:35.7	80.1	36.5	0.9	113	5.8		
MOX	e P	Z	06:25:35.8	80.1	36.1	1.0	108	5.7		
IBBN	e P	Z	06:25:35.8	80.1	33.5	0.9	200	6.1		
GEC2	e P	Z	06:25:39.1	80.7	37.3	0.9	78	5.7		
WET	e P	Z	06:25:40.0	80.8	36.8	1.1	144	5.9		
BUG	e P	Z	06:25:40.4	81.0	33.1	1.1	125	5.9		
GRA1	e P	Z	06:25:41.3	81.0	35.7	0.9	348	6.4		
	e SS	N	06:40:50.4							
	e L	Z	07:03:52.9			21.3	1107		5.2	
STU	e P	Z	06:25:48.9	82.5	34.2	0.9	247	6.5		
WLF	e P	Z	06:25:50.7	82.9	32.2					
BFO	e P	Z	06:25:52.2	83.2	33.6	1.0	117	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/10	06:24:32.8	19.585S	172.247W	33.0G				SZGRF

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	06:44:07.6	145.6	4.3					
RUE	e PKPbc	Z	06:44:10.9	146.8	10.4					
NRDL	e PKPbc	Z	06:44:11.8	147.0	4.1					
IBBN	e PKPbc	Z	06:44:12.6	147.3	0.0					
CLZ	e PKPbc	Z	06:44:13.8	147.7	4.6					
CLL	e PKPbc	Z	06:44:14.4	148.0	9.4					
BUG	e PKPbc	Z	06:44:14.7	148.1	359.1					

BRG	e PKPbc	Z	06:44:15.3	148.3	11.2	
MOX	e PKPbc	Z	06:44:16.2	148.8	7.0	
WERD	e PKPbc	Z	06:44:17.0	148.9	8.3	
GUNZ	e PKPbc	Z	06:44:16.4	149.0	8.4	
GRA1	e PKPbc	Z	06:44:19.1	149.8	6.5	
WLF	e PKPbc	Z	06:44:19.9	149.9	357.0	
WET	e PKPbc	Z	06:44:19.5	150.2	9.7	
GEC2	e PKPbc	Z	06:44:20.2	150.4	11.4	
STU	e PKPbc	Z	06:44:21.4	150.8	2.8	
BFO	e PKPbc	Z	06:44:22.5	151.3	1.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/10	10:26:24.4	28.182N	103.548E	33.0N	5.1	5.2		SZGRF

Sichuan, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:37:22.0	68.3	71.6	1.3	17	5.1		
CLL	e P	Z	10:37:24.3	68.7	71.1	1.0	15	5.2		
GEC2	e P	Z	10:37:27.1	69.1	70.7	0.8	10	5.1		
BSEG	e P	Z	10:37:29.5	69.4	70.1	1.1	20	5.2		
WERD	e P	Z	10:37:28.9	69.4	70.3					
GUNZ	e P	Z	10:37:29.2	69.4	70.3					
WET	e P	Z	10:37:29.7	69.5	70.2	1.0	8	4.8		
MOX	e P	Z	10:37:31.1	69.7	69.9	1.1	10	4.9		
NRDL	e P	Z	10:37:33.5	70.0	69.5					
CLZ	e P	Z	10:37:33.4	70.1	69.4	0.8	17	5.2		
GRA1	e P	Z	10:37:35.1	70.3	69.3	0.9	19	5.2		
	e L	Z	11:09:43.8			18.4	1399		5.2	
STU	e P	Z	10:37:44.0	71.9	67.6					
BUG	e P	Z	10:37:44.9	72.0	67.1	0.8	11	5.1		
BFO	e P	Z	10:37:47.8	72.6	66.9	1.1	17	5.1		
WLF	e P	Z	10:37:53.4	73.3	65.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/11								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pg	Z	08:14:57.8							
	e Sg	N	08:15:16.4							
WLF	e Pg	Z	08:14:43.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/11	13:47:42.9	15.923S	173.651W	33.0N				SZGRF

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e PKPbc	Z	14:07:11.2	143.6	2.3					
CLZ	e PKPbc	Z	14:07:11.9	143.9	6.6					
CLL	e PKPbc	Z	14:07:12.4	144.2	11.0					
BUG	e PKPbc	Z	14:07:13.8	144.5	1.5					
BRG	e PKPbc	Z	14:07:13.7	144.5	12.6					
MOX	e PKPbc	Z	14:07:15.5	145.0	8.9					
WERD	e PKPbc	Z	14:07:15.7	145.1	10.1					
GUNZ	e PKPbc	Z	14:07:16.0	145.2	10.1					
GRA1	e PKPbc	Z	14:07:18.8	146.0	8.4					
WLF	e PKPbc	Z	14:07:20.1	146.3	359.7					
WET	e PKPbc	Z	14:07:20.2	146.4	11.4					
GEC2	e PKPbc	Z	14:07:19.3	146.5	12.9					
BFO	e PKPbc	Z	14:07:22.6	147.6	3.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/11	15:48:27.4	38.173N	39.650E	33.0N	5.2	5.1		SZGRF

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	15:53:12.5	21.5	110.0	1.2	105	5.1		
WET	e P	Z	15:53:18.4	22.1	109.7	1.5	96	5.0		
BRG	e P	Z	15:53:19.2	22.1	115.1	1.6	139	5.1		
FUR	e P	Z	15:53:26.6	22.8	105.4	1.2	520	5.9		
CLL	e P	Z	15:53:26.5	22.8	114.7	1.1	68	5.1		
GUNZ	e P	Z	15:53:27.0	22.9	111.7	1.0	87	5.2		
WERD	e P	Z	15:53:27.3	22.9	111.9	1.3	68	5.0		
RUE	e P	Z	15:53:28.7	22.9	118.3	1.7	226	5.4		
GRA1	e P	Z	15:53:31.4	23.3	108.8	1.3	525	5.9		
	e S	T	15:57:43.7							
	e L	Z	16:04:04.6			19.3	5991		5.1	
MOX	e P	Z	15:53:32.4	23.4	111.4	1.0	21	4.6		
STU	e P	Z	15:53:40.7	24.3	104.4	1.3	198	5.5		
CLZ	e P	Z	15:53:44.2	24.5	112.3	1.0	41	5.1		
BFO	e P	Z	15:53:45.9	24.7	102.5	1.5	114	5.4		
NRDL	e P	Z	15:53:47.2	24.9	113.2	1.1	20	4.8		
BSEG	e P	Z	15:53:52.9	25.4	116.3	1.2	70	5.3		
IBBN	e P	Z	15:53:59.9	26.2	109.9	1.4	70	5.1		
BUG	e P	Z	15:54:00.3	26.2	107.6	1.1	90	5.3		
WLF	e P	Z	15:54:00.9	26.4	102.9	1.1	92	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/11	23:02:26.8	3.200S	79.650W	33.0N	5.5			SZGRF

Near coast of Ecuador

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	23:15:22.1	89.7	264.7	1.2	50	5.6		
BUG	e P	Z	23:15:26.1	90.6	265.6	1.6	33	5.4		
BFO	e P	Z	23:15:27.5	91.0	266.4	1.2	7	4.9		
STU	e P	Z	23:15:31.1	91.6	267.0	1.0	18	5.3		
NRDL	e P	Z	23:15:34.6	92.4	267.9	1.5	26	5.3		
CLZ	e P	Z	23:15:35.4	92.5	268.0	1.3	34	5.6		
BSEG	e P	Z	23:15:34.8	92.6	268.1	1.6	24	5.4		
FUR	e P	Z	23:15:37.6	93.0	268.6	1.8	44	5.6		
GRA1	e P	Z	23:15:37.7	93.0	268.6	1.5	43	5.7		
MOX	e P	Z	23:15:38.4	93.3	268.9	1.2	19	5.4		
WERD	e P	Z	23:15:40.6	93.7	269.5	1.2	29	5.5		
GUNZ	e P	Z	23:15:40.5	93.7	269.5	1.3	29	5.5		
WET	e P	Z	23:15:41.8	94.1	269.8	1.5	30	5.4		
CLL	e P	Z	23:15:42.7	94.2	270.1	1.2	28	5.5		
RGN	e P	Z	23:15:43.2	94.3	270.6	1.6	185	6.2		
GEC2	e P	Z	23:15:44.6	94.6	270.4	2.0	16	5.1		
RUE	e P	Z	23:15:44.7	94.6	270.8	0.7	25	5.7		
BRG	e P	Z	23:15:45.3	94.7	270.8	1.1	26	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/12	15:59:19.8	12.040S	167.160E	33.0N				SZGRF

Santa Cruz Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e PKPdf	Z	16:18:33.1	132.8	36.0					
	e PP	Z	16:20:58.9							
	e SKPdf	Z	16:21:42.1							
BSEG	e PKPdf	Z	16:18:35.0	134.3	32.5					
	e PP	Z	16:21:06.5							
	e SKPdf	Z	16:21:48.1							
RUE	e PKPdf	Z	16:18:34.4	134.3	37.7					
	e PP	Z	16:21:07.2							
	e SKPdf	Z	16:21:49.1							
HLG	e PKPdf	Z	16:18:36.0	134.8	29.2					
	e PP	Z	16:21:10.9							
	e SKPdf	Z	16:21:48.3							
BRG	e PKPdf	Z	16:18:37.0	135.5	38.9					
	e PP	Z	16:21:14.0							
	e SKPdf	Z	16:21:51.7							
CLL	e PKPdf	Z	16:18:36.8	135.5	37.4					
	e PP	Z	16:21:14.7							
	e SKPdf	Z	16:21:51.9							
NRDL	e PKPdf	Z	16:18:37.2	135.5	33.0					
	e PP	Z	16:21:15.1							

	e SKPdf	Z	16:21:52.4			
CLZ	e PKPdf	Z	16:18:38.5	136.0	33.7	
	e PP	Z	16:21:17.8			
	e SKPdf	Z	16:21:53.8			
WERD	e PKPdf	Z	16:18:38.7	136.4	37.1	
	e SKPdf	Z	16:21:54.8			
IBBN	e PKPdf	Z	16:18:38.6	136.5	30.0	
	e PP	Z	16:21:18.1			
	e SKPdf	Z	16:21:54.9			
GUNZ	e PKPdf	Z	16:18:39.0	136.5	37.2	
	e SKPdf	Z	16:21:54.7			
MOX	e PKPdf	Z	16:18:40.2	136.5	36.1	
	e PP	Z	16:21:22.1			
	e SKPdf	Z	16:21:55.0			
GEC2	e PKPdf	Z	16:18:40.2	137.1	40.0	
	e PP	Z	16:21:24.6			
	e SKPdf	Z	16:21:56.9			
WET	e PKPdf	Z	16:18:40.4	137.2	38.7	
	e PP	Z	16:21:24.2			
	e SKPdf	Z	16:21:57.1			
BUG	e PKPdf	Z	16:18:40.7	137.4	29.8	
	e PP	Z	16:21:26.2			
	e SKPdf	Z	16:21:57.7			
GRA1	e PKPdf	Z	16:18:40.8	137.5	36.1	
	e PP	Z	16:21:26.4			
	e SKPdf	Z	16:21:58.7			
FUR	e PKPdf	Z	16:18:42.7	138.7	37.2	
	e PP	Z	16:21:34.2			
	e SKPdf	Z	16:22:02.2			
STU	e PKPdf	Z	16:18:43.5	139.0	34.0	
	e PP	Z	16:21:35.4			
	e SKPdf	Z	16:22:02.9			
WLF	e PKPdf	Z	16:18:44.1	139.3	29.2	
	e PP	Z	16:21:38.3			
	e SKPdf	Z	16:22:03.4			
BFO	e PKPdf	Z	16:18:43.5	139.7	33.1	
	e PP	Z	16:21:40.3			
	e SKPdf	Z	16:22:02.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/12	16:52:37.7	49.708N	85.235E	33.0N	4.8			SZGRF

Eastern Kazakhstan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:00:56.8	45.8	60.1	0.8	8	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/13	10:48:45.0	31.158N	69.711E	33.0N	5.4	5.0		SZGRF

Pakistan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	10:56:58.3	45.2	93.8	0.8	25	5.2		
GEC2	e P	Z	10:56:58.6	45.2	91.6	1.0	26	5.1		
RUE	e P	Z	10:57:00.0	45.4	95.2	0.6	68	5.7		
WET	e P	Z	10:57:02.6	45.8	91.3	1.2	7	4.6		
CLL	e P	Z	10:57:03.1	45.8	93.5	1.1	30	5.2		
GUNZ	e P	Z	10:57:06.7	46.2	92.0	1.2	31	5.2		
WERD	e P	Z	10:57:06.7	46.2	92.1	1.3	28	5.1		
MOX	e P	Z	10:57:10.3	46.6	91.7	0.9	24	5.3		
GRA1	e P	Z	10:57:12.1	46.9	90.5	0.9	74	5.8		
	e L	Z	11:20:59.0			19.0	1456		5.0	
CLZ	e P	Z	10:57:16.5	47.4	91.8	1.2	74	5.7		
BSEG	e P	Z	10:57:17.6	47.6	93.7	1.1	66	5.7		
NRDL	e P	Z	10:57:18.0	47.6	92.2	1.0	44	5.5		
STU	e P	Z	10:57:21.8	48.2	88.1	1.0	54	5.6		
BFO	e P	Z	10:57:25.6	48.8	87.1	1.1	33	5.3		
IBBN	e P	Z	10:57:29.0	49.0	90.2	0.7	85	5.9		
BUG	e P	Z	10:57:31.2	49.4	89.0	1.0	57	5.6		
WLF	e P	Z	10:57:37.4	50.1	86.7	1.1	54	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/13	20:35:22.1	40.000N	40.000E	33.0N	4.1			GSRC-M

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:39:53.6	20.6	105.5	1.0	11	4.1		
WET	e P	Z	20:40:04.5	21.2	105.2	1.3	13	4.1		
TANN	e P	Z	20:40:07.0	21.8	107.8	1.4	10	4.1		
GUNZ	e P	Z	20:40:07.7	21.9	107.5	1.1	13	4.3		
MOX	e P	Z	20:40:16.1	22.4	107.3	1.4	12	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14	00:20:25.1	38.385N	39.234E	33.0N	4.7			kan

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	00:25:26.6	22.8	109.0	1.7	43	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14	03:10:12.0	10.900S	166.800E	33.0N				GSRC-M

Santa Cruz Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	03:29:30.5	136.2	36.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14	09:56: 2.4	27.663S	65.781E	33.0N	4.6			SZGRF

South Indian Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	10:09:04.3	91.2	133.9	1.1	8	4.6		
	e pP	Z	10:09:14.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14	20:42:18.0	38.400N	39.600E	10.0N	4.6			GSRC-M

Turkey

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WET	e P	Z	20:47:09.8	21.9	109.3					
GRA2	e P	Z	20:47:22.3	23.0	108.5	1.4	28	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	21:06:09.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	21:40:18.2							
	e		21:40:31.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	23:36:29.8							
	e		23:36:42.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	23:56:51.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	00:08:49.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	01:15:26.2	14.688S	64.942E	33.0N	4.6			SZGRF

Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	01:27:31.2	79.7	127.7	1.5	13	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	02:38:45.3	35.427N	17.578E	33.0N				SZGRF

Central Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	02:42:19.6	14.9	160.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	03:38:46.9	17.481S	67.394E	33.0N	4.9			SZGRF

Mid-Indian Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	03:51:10.9	83.3	127.2	1.5	11	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	04:41:45.4	43.559N	11.836E	10.0G			3.2	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	04:43:03.0	5.4	151.7					3.3
	e Sn	N	04:44:05.6							
GEC2	e Pn	Z	04:43:07.2	5.4	194.4					3.0
	e Sn	E	04:44:06.0							
WET	e Pn	Z	04:43:07.1	5.6	187.7					
MOX	e Pn	Z	04:43:30.7	7.1	178.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	05:26: 2.3	50.990N	48.650W	33.0N	4.4			SZGRF

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	05:32:47.3	34.1	290.8	1.0	23	5.1		
BUG	e P	Z	05:32:47.0	34.2	291.8	1.0	14	4.8		
BSEG	e P	Z	05:32:54.6	35.0	289.9	0.9	26	5.2		
NRDL	e P	Z	05:32:57.7	35.4	291.7	1.2	15	4.7		
CLZ	e P	Z	05:33:02.1	35.8	292.7	1.3	13	4.6		
MOX	e P	Z	05:33:10.8	37.0	294.7	0.9	3	4.0		
WERD	e P	Z	05:33:15.4	37.5	295.2	1.1	4	4.0		
CLL	e P	Z	05:33:16.2	37.5	294.5	0.8	4	4.2		
GUNZ	e P	Z	05:33:16.3	37.5	295.3	1.1	6	4.2		
BRG	e P	Z	05:33:21.8	38.2	295.4	1.2	4	4.0		
GEC2	e P	Z	05:33:29.0	39.0	297.6	0.8	3	4.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	08:05: 2.4	11.540N	55.461E	33.0N	4.2			SZGRF

Socotra region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	08:14:13.0	52.6	120.8	0.8	3	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	15:35:35.5	43.198N	144.720E	33.0G	4.7			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	15:47:34.3	78.6	32.7	0.8	6	4.7		
	e		15:47:45.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	17:02:30.9	44.060N	145.780E	33.0N				SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	17:14:11.0	74.9	31.5	0.8	12			
NRDL	e P	Z	17:14:17.3	76.2	31.1	0.9	6			
CLL	e P	Z	17:14:18.3	76.3	32.9	0.8	15			
BRG	e P	Z	17:14:18.6	76.3	33.4	0.8	4			
CLZ	e P	Z	17:14:21.2	76.7	31.2	0.8	9			
IBBN	e P	Z	17:14:22.9	77.1	29.5	0.6	11			
GUNZ	e P	Z	17:14:23.9	77.3	32.3	0.6	4			
MOX	e P	Z	17:14:24.0	77.3	31.9	0.6	3			
GEC2	e P	Z	17:14:28.0	78.1	33.0	0.7	2			
WET	e P	Z	17:14:29.3	78.1	32.5	1.0	7			
BFO	e P	Z	17:14:41.0	80.4	29.5	0.9	4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15	19:09:55.7	55.460N	156.090W	33.0N	4.6			SZGRF

South of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
IBBN	e P	Z	19:21:15.5	71.4	350.4	0.9	9	4.9		
NRDL	e P	Z	19:21:15.4	71.4	351.8	1.0	8	4.8		
CLZ	e P	Z	19:21:19.7	72.1	352.0	0.9	6	4.7		
BUG	e P	Z	19:21:19.7	72.2	350.2	0.8	7	4.8		
CLL	e P	Z	19:21:23.5	72.8	353.6	1.1	6	4.6		
BRG	e P	Z	19:21:26.7	73.3	354.1	0.8	4	4.4		
MOX	e P	Z	19:21:26.9	73.4	352.8	0.9	6	4.6		
WET	e P	Z	19:21:36.5	75.0	353.6	1.3	6	4.5		
GEC2	e P	Z	19:21:38.5	75.3	354.0	0.9	3	4.5		
BFO	e P	Z	19:21:38.5	75.4	350.9	0.9	3	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e PKP	Z	21:07:14.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

1970/07/20 23:53: 1.2 30.041N 51.602E 33.0N 4.7 SZGRF
Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e P	Z	01:30:30.8			0.8	10	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/16								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	21:47:36.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/16								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:25:47.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/17	03:01:54.5	41.886N	143.336E	42.9	5.1	4.9		SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	03:13:38.8	76.1	34.1	1.2	31	5.3		
CLL	e P	Z	03:13:45.3	77.3	35.6	0.9	24	5.3		
	e pP	Z	03:13:56.2							
BRG	e P	Z	03:13:45.5	77.3	36.1	1.1	11	4.9		
NRDL	e P	Z	03:13:45.6	77.3	33.8	1.4	18	5.0		
CLZ	e P	Z	03:13:48.6	77.8	33.9	1.2	32	5.3		
WERD	e P	Z	03:13:50.8	78.3	35.0	1.4	12	4.7		
IBBN	e P	Z	03:13:51.0	78.3	32.2	1.1	28	5.2		
	e pP	Z	03:14:02.2							
GUNZ	e P	Z	03:13:50.9	78.3	35.0	1.0	11	4.8		
MOX	e P	Z	03:13:50.9	78.3	34.6	1.4	20	5.0		
GEC2	e P	Z	03:13:54.0	79.0	35.7	1.5	12	4.7		
WET	e P	Z	03:13:54.7	79.1	35.2	1.1	19	5.0		
	e pP	Z	03:14:07.1							
BUG	e P	Z	03:13:55.6	79.2	31.7	1.1	29	5.1		
GRA1	e P	Z	03:13:55.6	79.3	34.2	1.0	32	5.2		
	e pP	Z	03:14:08.0							
	e PP	Z	03:16:55.8							
	e L	Z	03:52:24.2			21.3	601		4.9	
FUR	e P	Z	03:14:03.5	80.5	34.1	1.0	36	5.4		

	e pP	Z	03:14:14.8						
BFO	e P	Z	03:14:07.3	81.4	32.2	1.6	25	5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/17	03:25:55.1	42.132N	143.302E	36.9	4.5			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:37:56.4	79.0	34.1	0.8	4	4.5		
	e pP	Z	03:38:07.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/17	04:16:21.6	42.210N	142.850E	33.0N	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:28:05.3	75.6	34.3	0.9	13	5.1		
CLL	e P	Z	04:28:11.8	76.8	35.7	1.1	16	5.1		
BRG	e P	Z	04:28:12.3	76.8	36.3	0.9	6	4.7		
NRDL	e P	Z	04:28:12.4	76.9	34.0	1.1	7	4.7		
CLZ	e P	Z	04:28:15.2	77.3	34.0	0.7	10	5.1		
WERD	e P	Z	04:28:17.4	77.8	35.2	0.7	3	4.5		
GUNZ	e P	Z	04:28:17.9	77.9	35.2	0.7	5	4.7		
MOX	e P	Z	04:28:17.9	77.9	34.7	0.9	5	4.7		
GEC2	e P	Z	04:28:21.6	78.6	35.9	0.8	4	4.5		
WET	e P	Z	04:28:22.5	78.6	35.4	1.0	9	4.8		
GRA1	e P	Z	04:28:23.3	78.8	34.4	0.8	17	5.1		
BFO	e P	Z	04:28:34.8	81.0	32.3	1.1	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/17	04:25:13.4	42.010N	143.200E	33.0N	4.8			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	04:36:59.9	75.9	34.1	1.3	16	5.0		
CLL	e P	Z	04:37:06.3	77.1	35.6	0.8	12	5.1		
BRG	e P	Z	04:37:06.5	77.1	36.2	1.1	7	4.7		
CLZ	e P	Z	04:37:09.5	77.6	33.9	0.8	14	5.1		
WERD	e P	Z	04:37:12.0	78.1	35.0	0.8	5	4.7		
GUNZ	e P	Z	04:37:12.4	78.2	35.0	0.7	5	4.7		
MOX	e P	Z	04:37:12.2	78.2	34.6	0.7	5	4.6		
GEC2	e P	Z	04:37:16.0	78.9	35.8	0.8	4	4.5		
WET	e P	Z	04:37:16.8	78.9	35.3	1.0	7	4.6		

BUG	e P	Z	04:37:16.9	79.0	31.8	0.9	10	4.8	
GRA1	e P	Z	04:37:18.2	79.1	34.2	0.8	15	5.1	
BFO	e P	Z	04:37:28.9	81.3	32.2	1.0	7	4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/17	04:49:10.9	23.830S	177.880W	183.0				SZGRF

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	05:08:32.7	149.3	14.8					
	e PKPab	Z	05:08:42.4							
NRDL	e PKPdf	Z	05:08:35.8	150.7	15.1					
	e PKPab	Z	05:08:47.6							
IBBN	e PKPab	Z	05:08:50.7	151.2	10.7					
CLL	e PKPdf	Z	05:08:37.2	151.3	21.1					
	e PKPab	Z	05:08:50.9							
CLZ	e PKPdf	Z	05:08:37.4	151.3	15.9					
	e PKPab	Z	05:08:50.5							
BRG	e PKPdf	Z	05:08:36.6	151.5	23.1					
	e PKPab	Z	05:08:51.0							
BUG	e PKPab	Z	05:08:55.2	152.1	10.1					
MOX	e PKPab	Z	05:08:54.3	152.2	18.9					
WERD	e PKPab	Z	05:08:55.1	152.2	20.3					
GUNZ	e PKPab	Z	05:08:55.4	152.3	20.4					
GRA1	e PKPab	Z	05:08:59.5	153.2	18.7					
	e pPKPab	Z	05:09:45.8							
	e PP	Z	05:12:34.6							
WET	e PKPab	Z	05:08:59.9	153.3	22.3					
GEC2	e PKPab	Z	05:09:00.2	153.4	24.2					
WLF	e PKPab	Z	05:09:03.1	154.0	8.4					
FUR	e PKPab	Z	05:09:06.0	154.6	19.8					
BFO	e PKPab	Z	05:09:07.2	155.0	13.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/17	07:09:30.6	19.500S	178.280W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:29:03.0	144.9	14.2					
NRDL	e PKPbc	Z	07:29:07.4	146.4	14.4					
CLZ	e PKPbc	Z	07:29:09.6	147.0	15.1					
CLL	e PKPbc	Z	07:29:09.4	147.0	19.8					
BRG	e PKPbc	Z	07:29:10.3	147.2	21.6					
BUG	e PKPbc	Z	07:29:11.6	147.8	9.8					
MOX	e PKPbc	Z	07:29:12.0	147.9	17.7					

WERD	e PKPbc	Z	07:29:12.5	147.9	19.0	
GUNZ	e PKPbc	Z	07:29:12.7	148.0	19.1	
GRA1	e PKPbc	Z	07:29:15.1	148.9	17.5	
	e PKPab	Z	07:29:19.1			
GEC2	e PKPbc	Z	07:29:15.4	149.1	22.4	
WLF	e PKPbc	Z	07:29:17.5	149.6	8.3	
BFO	e PKPbc	Z	07:29:19.4	150.7	12.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/18	03:55:50.0	52.183N	170.694W	33.0N	4.6			SZGRF

Fox Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:07:46.2	78.1	1.2	1.0	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/18	05:56:51.8	35.947N	35.103E	10.0G	4.6			SZGRF

Jordan - Syria region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	06:01:27.6	20.3	121.5	1.3	35	4.4		
WET	e P	Z	06:01:33.7	20.9	120.8	1.1	59	4.8		
BRG	e P	Z	06:01:37.9	21.3	126.4	1.0	22	4.4		
GUNZ	e P	Z	06:01:44.0	21.8	122.6	1.2	42	4.8		
WERD	e P	Z	06:01:44.5	21.9	122.7	1.2	35	4.6		
CLL	e P	Z	06:01:45.4	22.0	125.7	1.5	31	4.5		
GRA1	e P	Z	06:01:45.8	22.1	119.4	1.0	17	4.4		
MOX	e P	Z	06:01:49.6	22.4	122.0	1.2	27	4.5		
BFO	e P	Z	06:01:58.1	23.2	112.3	1.4	42	4.8		
CLZ	e P	Z	06:02:02.3	23.7	122.5	1.0	27	4.7		
BSEG	e P	Z	06:02:13.9	24.9	126.2	1.2	23	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/18	07:07:34.5	7.627N	71.208W	33.0N	4.6			SZGRF

Venezuela

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:19:37.1	79.3	269.2	0.8	5	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/18	09:03: 9.2	16.520N	95.660W	62.5	5.7	4.8		SZGRF

Oaxaca, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e P	Z	09:15:37.7	84.9	289.6	0.9	161	6.2		
IBBN	e P	Z	09:15:37.1	84.9	290.6	1.6	167	6.0		
BUG	e P	Z	09:15:37.3	84.9	290.3	1.7	152	5.9		
	e pP	Z	09:15:55.3							
	e S	R	09:26:00.6							
BSEG	e P	Z	09:15:42.2	85.7	292.4	1.2	93	5.8		
NRDL	e P	Z	09:15:44.3	86.2	292.4	1.2	58	5.6		
	e S	R	09:26:15.2							
CLZ	e P	Z	09:15:46.6	86.6	292.6	1.1	47	5.5		
	e pP	Z	09:16:04.1							
BFO	e P	Z	09:15:46.2	86.7	291.3	1.5	107	5.8		
	e S	R	09:26:18.5							
STU	e P	Z	09:15:48.7	87.0	291.9	0.9	98	5.9		
MOX	e P	Z	09:15:51.9	87.7	293.6	1.2	40	5.6		
	e pP	Z	09:16:09.3							
	e S	R	09:26:31.0							
GRA1	e P	Z	09:15:53.6	87.9	293.4	1.4	123	6.1		
	e pP	Z	09:16:10.6							
	e S	R	09:26:33.5							
	e L	E	09:52:46.7			21.8	456		4.8	
FUR	e P	Z	09:15:56.1	88.5	293.4	1.1	61	5.7		
WET	e P	Z	09:15:58.7	89.1	294.6	1.1	34	5.5		
	e S	R	09:26:44.3							
GEC2	e P	Z	09:16:01.3	89.7	295.2	0.9	11	5.1		
	e S	R	09:26:48.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/18	19:01: 9.0	52.015N	160.494E	33.0N	4.4			SZGRF

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:12:47.5	75.0	19.0	1.2	5	4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/18	23:06:37.5	36.000N	27.500E	33.0N	4.1			GSRC-M

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:10:47.4	18.1	133.1	1.0	17	4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/19	06:06:10.1	44.984N	124.260W	33.0N	5.0			SZGRF

Near coast of Oregon, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:18:04.0	77.7	329.5	0.9	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/19	06:35: 5.7	13.840N	123.062E	33.0N	5.4	5.3		SZGRF

Luzon, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	06:48:03.8	90.3	66.4	0.9	41	5.6		
BRG	e P	Z	06:48:06.5	90.9	66.6	51.1	161970	7.6		
CLL	e P	Z	06:48:07.3	91.2	65.8	0.9	9	5.1		
BSEG	e P	Z	06:48:09.4	91.6	63.6	0.8	12	5.3		
GEC2	e P	Z	06:48:10.7	91.8	66.4	1.1	6	4.8		
WERD	e P	Z	06:48:11.2	92.0	65.3	0.8	4	4.8		
GUNZ	e P	Z	06:48:11.6	92.0	65.3	1.1	10	5.1		
MOX	e P	Z	06:48:12.4	92.3	64.8	1.1	10	5.1		
NRDL	e P	Z	06:48:12.6	92.3	63.5	1.3	15	5.2		
CLZ	e P	Z	06:48:13.9	92.5	63.7	0.9	15	5.5		
GRA1	e P	Z	06:48:15.8	92.9	64.5	1.4	24	5.4		
	e L	Z	07:34:31.0			18.9	952		5.3	
BFO	e P	Z	06:48:24.3	95.2	62.3	2.0	25	5.3		
WLF	e P	Z	06:48:25.7	95.9	60.5	1.9	73	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/19	11:40:36.6	36.760N	140.610E	33.0N	5.1			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	11:52:43.5	79.7	38.4	1.2	30	5.2		
BRG	e P	Z	11:52:48.3	80.7	40.6	0.9	14	4.9		
CLL	e P	Z	11:52:48.2	80.7	40.0	0.9	32	5.2		
NRDL	e P	Z	11:52:49.7	80.9	38.1	1.4	21	4.9		
CLZ	e P	Z	11:52:52.0	81.3	38.2	1.1	31	5.2		
WERD	e P	Z	11:52:53.7	81.6	39.5	1.6	20	4.9		
GUNZ	e P	Z	11:52:53.7	81.7	39.5	0.9	11	4.9		
MOX	e P	Z	11:52:54.0	81.8	39.0	1.4	18	4.9		
IBBN	e P	Z	11:52:54.8	81.9	36.4	0.9	35	5.4		
GEC2	e P	Z	11:52:56.9	82.3	40.3	0.9	9	4.9		
WET	e P	Z	11:52:57.6	82.4	39.7	1.1	15	5.0		
GRA1	e P	Z	11:52:59.5	82.7	38.6	1.1	50	5.6		
STU	e P	Z	11:53:07.0	84.2	37.1	1.4	42	5.5		

	BFO	e	P		Z	11:53:10.1	84.9	36.5	1.1	26	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/19	13:51:45.0	15.597N	54.621E	33.0N	4.7			SZGRF

Owen Fracture Zone region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:00:27.8	48.9	118.5	1.0	8	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	05:36: 9.9	51.890N	165.444W	33.0N	5.0			SZGRF

South of Aleutian Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	05:47:43.3	74.1	357.3	1.2	21	5.0		
NRDL	e P	Z	05:47:51.2	75.5	357.2	1.2	15	5.0		
RUE	e P	Z	05:47:52.1	75.6	359.5	0.5	28	5.7		
CLZ	e P	Z	05:47:55.2	76.2	357.3	1.3	20	5.1		
CLL	e P	Z	05:47:57.9	76.8	359.0	1.0	10	4.9		
BRG	e P	Z	05:48:00.5	77.2	359.6	1.0	11	4.9		
MOX	e P	Z	05:48:01.6	77.4	358.1	0.9	12	5.0		
WERD	e P	Z	05:48:03.3	77.6	358.6	1.1	8	4.8		
WLF	e P	Z	05:48:06.3	78.2	354.7	1.6	34	5.1		
GRA1	e P	Z	05:48:07.5	78.4	357.9	0.8	21	5.2		
WET	e P	Z	05:48:10.2	79.0	358.9	1.3	9	4.6		
GEC2	e P	Z	05:48:11.8	79.3	359.5	0.9	9	4.7		
BFO	e P	Z	05:48:13.9	79.6	356.1	1.1	9	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	07:34:53.0	24.948S	179.757E	551.5G				neic-m

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	07:53:42.2	150.0	19.4					
	e PKPab	Z	07:53:49.7							
NRDL	e PKPbc	Z	07:53:45.3	151.4	19.9					
CLL	e PKPbc	Z	07:53:46.1	151.8	26.0					
	e PKPab	Z	07:53:57.1							
BRG	e PKPbc	Z	07:53:46.5	151.9	28.1					
	e PKPab	Z	07:53:58.2							
CLZ	e PKPbc	Z	07:53:46.7	151.9	20.8					
MOX	e PKPab	Z	07:54:01.4	152.7	24.0					
GRA1	e PKPab	Z	07:54:06.3	153.7	24.0					

WET	e PKPab	Z	07:54:06.3	153.7	27.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	11:12:12.2	36.227N	28.536E	33.0G	4.5			SZGRF

Dodecanese Islands, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	11:16:02.8	16.6	133.8					
WET	e Pn	Z	11:16:09.5	17.2	132.7					
FUR	e Pn	Z	11:16:11.6	17.4	126.9					
BRG	e P	Z	11:16:18.9	18.0	138.9	0.7	30	4.5		
GUNZ	e P	Z	11:16:22.5	18.3	134.3	0.6	16	4.3		
WERD	e P	Z	11:16:23.5	18.4	134.4	0.8	21	4.3		
GRA1	e P	Z	11:16:23.9	18.4	130.5	0.9	25	4.4		
CLL	e P	Z	11:16:26.9	18.7	137.7	0.8	51	4.8		
MOX	e P	Z	11:16:29.1	18.9	133.4	0.7	36	4.7		
STU	e P	Z	11:16:29.6	18.9	124.4	0.7	27	4.6		
BFO	e P	Z	11:16:32.5	19.1	121.8	0.8	17	4.3		
RUE	e P	Z	11:16:33.5	19.3	141.5	0.9	46	4.7		
CLZ	e P	Z	11:16:43.2	20.2	133.4	0.8	26	4.5		
NRDL	e P	Z	11:16:48.8	20.8	134.1	1.2	32	4.5		
BSEG	e P	Z	11:16:59.8	21.7	137.1	0.6	42	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	15:45:27.0							
CLL	e PKPbc	Z	15:45:26.3							
CLZ	e PKPbc	Z	15:45:26.4							
GUNZ	e PKPbc	Z	15:45:28.9							
WERD	e PKPbc	Z	15:45:28.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	15:42:16.1	61.426N	24.323W	33.0N	4.6	4.0		SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:46:40.8	19.7	306.2	1.2	60	4.7		
BUG	e P	Z	15:46:42.7	19.8	312.4	1.0	37	4.6		
NRDL	e P	Z	15:46:51.4	20.5	309.3	1.1	43	4.7		
WLF	e P	Z	15:46:54.2	20.6	316.3	1.9	60	4.6		
CLZ	e P	Z	15:46:56.3	21.0	310.6	1.2	72	4.9		

RUE	e P	Z	15:47:09.0	22.2	308.7	1.1	54	4.9	
MOX	e P	Z	15:47:10.8	22.4	312.5	1.6	26	4.4	
BFO	e P	Z	15:47:13.1	22.5	317.6	1.1	20	4.5	
CLL	e P	Z	15:47:13.3	22.6	311.0	1.6	32	4.6	
WERD	e P	Z	15:47:15.8	22.8	312.7	1.5	20	4.4	
GRA1	e P	Z	15:47:14.4	22.9	314.3	1.2	24	4.6	
	e L	Z	15:57:03.4			18.1	524		4.0
GUNZ	e P	Z	15:47:17.1	22.9	312.8	0.8	8	4.3	
BRG	e P	Z	15:47:19.1	23.3	311.6	1.3	15	4.4	
WET	e P	Z	15:47:27.1	24.0	314.7	1.1	17	4.5	
GEC2	e P	Z	15:47:34.6	24.6	315.0	1.3	11	4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	17:13:40.1	11.531N	126.526E	33.0N	5.2			SZGRF

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:27:07.8	96.8	63.1	1.2	8	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	17:37:54.7	23.760N	123.230E	33.0N	5.5	4.8		SZGRF

Southwestern Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	17:50:14.3	82.3	60.6	2.0	103	5.7		
BRG	e P	Z	17:50:17.5	83.0	60.5	1.4	24	5.2		
CLL	e P	Z	17:50:18.7	83.3	59.8	1.4	26	5.3		
BSEG	e P	Z	17:50:19.3	83.3	58.1	0.9	12	5.1		
WERD	e P	Z	17:50:23.2	84.1	59.3	1.8	51	5.4		
GEC2	e P	Z	17:50:23.4	84.1	60.1	1.0	20	5.3		
GUNZ	e P	Z	17:50:23.1	84.1	59.3	1.4	27	5.3		
NRDL	e P	Z	17:50:24.1	84.2	57.8	1.7	70	5.6		
MOX	e P	Z	17:50:24.5	84.4	58.8	1.5	20	5.1		
CLZ	e P	Z	17:50:25.1	84.4	57.9	1.4	76	5.7		
WET	e P	Z	17:50:24.9	84.5	59.6	1.8	38	5.3		
GRA1	e P	Z	17:50:28.8	85.1	58.4	1.7	129	5.9		
	e L	Z	18:34:24.3			21.1	388		4.8	
IBBN	e P	Z	17:50:30.4	85.5	56.0	1.0	36	5.5		
FUR	e P	Z	17:50:32.1	85.9	58.3	1.7	140	5.8		
BUG	e P	Z	17:50:33.4	86.3	55.6	1.4	53	5.5		
BFO	e P	Z	17:50:39.4	87.4	56.2	1.6	29	5.4		
WLF	e P	Z	17:50:42.0	87.9	54.6	1.7	51	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	18:52: 8.1	63.079N	25.484W	33.0N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:57:18.8	23.8	317.9	2.0	15	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	20:33:18.3	38.220N	141.300E	33.0N	5.3	5.0		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	20:45:18.6	78.5	39.5	1.2	60	5.5		
BSEG	e P	Z	20:45:19.0	78.7	37.2	1.1	43	5.4		
BRG	e P	Z	20:45:24.1	79.7	39.4	1.2	18	4.9		
CLL	e P	Z	20:45:24.5	79.7	38.8	1.1	45	5.3		
NRDL	e P	Z	20:45:26.2	79.9	36.9	1.6	40	5.1		
CLZ	e P	Z	20:45:28.0	80.3	37.0	1.2	38	5.3		
WERD	e P	Z	20:45:30.5	80.7	38.2	1.2	17	4.9		
GUNZ	e P	Z	20:45:30.6	80.7	38.2	1.1	21	5.1		
MOX	e P	Z	20:45:30.3	80.8	37.8	1.2	24	5.1		
GEC2	e P	Z	20:45:34.2	81.4	39.0	1.1	15	5.1		
WET	e P	Z	20:45:33.7	81.5	38.5	1.2	20	5.1		
GRA1	e P	Z	20:45:35.4	81.7	37.4	1.3	103	5.8		
	e L	Z	21:28:10.2			19.8	728		5.0	
BUG	e P	Z	20:45:36.0	81.8	34.8	1.5	62	5.5		
FUR	e P	Z	20:45:42.0	82.9	37.3	1.3	50	5.6		
STU	e P	Z	20:45:43.3	83.2	35.9	1.3	60	5.7		
WLF	e P	Z	20:45:45.6	83.6	33.9	1.3	48	5.6		
BFO	e P	Z	20:45:46.3	83.9	35.3	1.4	55	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/20	21:19:54.4	34.620N	141.830E	33.0N	5.4			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	21:32:12.5	81.9	40.9	1.2	48	5.5		
BSEG	e P	Z	21:32:13.4	82.1	38.5	1.2	35	5.3		
BRG	e P	Z	21:32:18.0	83.0	40.9	1.3	20	5.2		
CLL	e P	Z	21:32:18.4	83.1	40.2	1.2	39	5.5		
NRDL	e P	Z	21:32:19.7	83.3	38.2	1.9	60	5.5		
CLZ	e P	Z	21:32:21.7	83.7	38.4	1.3	35	5.4		
WERD	e P	Z	21:32:23.3	84.0	39.7	1.2	14	5.0		
GUNZ	e P	Z	21:32:23.8	84.1	39.7	1.4	28	5.3		
MOX	e P	Z	21:32:23.7	84.1	39.2	1.7	41	5.4		

IBBN	e P	Z	21:32:24.8	84.3	36.5	0.9	20	5.3
GEC2	e P	Z	21:32:26.6	84.6	40.6	1.5	27	5.3
WET	e P	Z	21:32:27.1	84.8	40.0	1.5	26	5.2
GRA1	e P	Z	21:32:29.4	85.0	38.8	1.3	72	5.7
FUR	e P	Z	21:32:34.1	86.2	38.8	1.6	74	5.6
STU	e P	Z	21:32:36.5	86.6	37.3	1.3	41	5.4
BFO	e P	Z	21:32:39.2	87.3	36.7	1.2	27	5.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/21	01:25:56.6	33.550S	180.320W	33.0N				SZGRF

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	01:45:51.2	158.3	24.6					
RUE	e PKPdf	Z	01:45:52.4	158.5	33.7					
NRDL	e PKPdf	Z	01:45:53.7	159.6	25.7					
CLL	e PKPdf	Z	01:45:53.4	159.8	33.7					
BRG	e PKPdf	Z	01:45:53.9	159.8	36.5					
CLZ	e PKPdf	Z	01:45:54.1	160.1	27.1					
IBBN	e PKPdf	Z	01:45:54.3	160.4	20.4					
GUNZ	e PKPdf	Z	01:45:55.2	160.8	33.7					
	e PKPab	Z	01:46:34.6							
MOX	e PKPdf	Z	01:45:54.8	160.8	31.6					
BUG	e PKPdf	Z	01:45:55.0	161.3	20.1					
GEC2	e PKPdf	Z	01:45:55.2	161.5	39.5					
WET	e PKPdf	Z	01:45:55.5	161.6	37.0					
GRA1	e PKPdf	Z	01:45:55.6	161.7	32.2					
	e PKPab	Z	01:46:40.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/21	03:32:37.7	37.340N	58.827E	33.0N	4.6			SZGRF

Iran-Turkmenistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	03:39:22.0	34.3	95.5	1.2	12	4.7		
GEC2	e P	Z	03:39:24.7	34.3	92.4	1.2	7	4.5		
WERD	e P	Z	03:39:31.1	35.3	93.5	1.3	9	4.6		
MOX	e P	Z	03:39:34.1	35.8	93.2	1.1	16	4.8		
GRA1	e P	Z	03:39:35.7	36.0	91.6	1.2	6	4.3		
STU	e P	Z	03:39:47.2	37.3	88.8	1.2	28	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/21								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:09:05.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/21								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPbc	Z	05:33:35.8							
BRG	e PKPbc	Z	05:33:26.6							
CLL	e PKPbc	Z	05:33:25.5							
CLZ	e PKPbc	Z	05:33:26.0							
GEC2	e PKPbc	Z	05:33:31.8							
IBBN	e PKPbc	Z	05:33:25.7							
WLF	e PKPbc	Z	05:33:34.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/21	11:33:40.0	22.100S	169.400E	10.0N				NEIR-M

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e PKP	Z	11:53:15.4	144.3	41.0					
BSEG	e PKP	Z	11:53:15.8	144.5	34.7					
BRG	e PKP	Z	11:53:19.0	145.5	42.7					
CLL	e PKP	Z	11:53:19.1	145.5	41.0					
NRDL	e PKP	Z	11:53:19.7	145.7	35.5					
CLZ	e PKP	Z	11:53:21.0	146.1	36.5					
WERD	e PKP	Z	11:53:21.5	146.5	40.8					
GUNZ	e PKP	Z	11:53:21.8	146.5	40.9					
MOX	e PKP	Z	11:53:21.1	146.6	39.5					
IBBN	e PKP	Z	11:53:21.8	146.7	32.1					
GEC2	e PKP	Z	11:53:24.2	147.0	44.5					
WET	e PKP	Z	11:53:22.1	147.2	42.9					
GRA1	e PKP	Z	11:53:22.3	147.5	39.9					
BUG	e PKP	Z	11:53:25.1	147.6	32.0					
STU	e PKP	Z	11:53:29.5	149.0	37.6					
WLF	e PKP	Z	11:53:30.9	149.4	31.7					
BFO	e PKP	Z	11:53:30.8	149.7	36.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/21	20:12: 7.3	7.710S	36.010E	33.0N	4.9			SZGRF

Tanzania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	20:22:08.8	59.8	154.2	1.1	17	5.0		
FUR	e P	Z	20:22:09.3	60.0	151.4	0.9	22	5.2		
WET	e P	Z	20:22:11.4	60.4	153.4	1.1	9	4.7		
STU	e P	Z	20:22:18.2	61.2	149.3	1.1	20	4.9		
GRA1	e P	Z	20:22:18.6	61.3	151.7	1.1	23	4.9		
BRG	e P	Z	20:22:20.2	61.6	155.0	1.2	6	4.3		
WERD	e P	Z	20:22:20.6	61.7	153.1	1.4	15	4.6		
MOX	e P	Z	20:22:23.8	62.1	152.4	1.3	8	4.8		
CLL	e P	Z	20:22:24.7	62.3	154.0	1.9	26	5.1		
WLF	e P	Z	20:22:29.4	63.0	146.4	1.4	19	5.0		
BUG	e P	Z	20:22:37.2	64.1	148.0	1.3	20	5.2		
NRDL	e P	Z	20:22:38.1	64.1	151.2	1.0	17	5.2		
BSEG	e P	Z	20:22:45.0	65.3	151.8	1.3	32	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/22	04:54:24.6	9.419N	78.745W	33.0N	4.9			SZGRF

Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:06:45.9	82.8	276.1	1.7	29	5.2		
WERD	e P	Z	05:06:48.9	83.4	276.8	1.2	7	4.7		
GUNZ	e P	Z	05:06:47.5	83.4	276.9	1.7	15	4.9		
CLL	e P	Z	05:06:49.8	83.7	277.3	2.1	22	5.0		
WET	e P	Z	05:06:51.4	83.9	277.4	1.2	8	4.8		
BRG	e P	Z	05:06:53.9	84.4	278.0	1.2	7	4.8		
GEC2	e P	Z	05:06:54.4	84.5	278.1	1.1	6	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/22	10:36:23.6	36.072N	141.289E	35.5	4.6			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:48:48.3	83.5	38.5	0.8	3	4.6		
	e pP	Z	10:48:58.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/22	18:13:27.3	37.160N	70.850E	33.0N	4.7			SZGRF

Afghanistan-Tajikistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z	18:21:17.1	42.0	86.3	1.1	15	4.6		
RUE	e P	Z	18:21:16.6	42.0	87.9	1.1	24	4.9		

GEC2	e P	Z	18:21:19.1	42.3	83.9	1.7	11	4.3
CLL	e P	Z	18:21:21.3	42.6	86.1	1.1	12	4.5
GUNZ	e P	Z	18:21:25.6	43.1	84.6	1.1	10	4.4
MOX	e P	Z	18:21:28.5	43.5	84.3	2.3	41	4.7
GRA1	e P	Z	18:21:32.3	43.8	83.1	0.9	9	4.5
FUR	e P	Z	18:21:33.0	44.0	81.5	10.6	4459	6.1
BSEG	e P	Z	18:21:33.5	44.0	86.8	2.5	101	5.1
CLZ	e P	Z	18:21:34.1	44.1	84.7	1.2	13	4.5
NRDL	e P	Z	18:21:34.3	44.2	85.2	1.2	12	4.5
BFO	e P	Z	18:21:48.0	45.9	79.8	1.7	13	4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/23	00:57:21.6	24.888S	13.667W	33.0N	4.9	4.8		SZGRF

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:09:16.0	77.8	203.0	1.2	12	4.9		
	e S	N	01:19:02.0							
	e SS	N	01:24:01.5							
	e L	Z	01:41:11.7			22.0	470		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/23	14:36:19.0	21.800S	176.370W	181.4				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	14:55:41.4	147.5	11.6					
RUE	e PKPbc	Z	14:55:43.6	148.3	18.2					
NRDL	e PKPdf	Z	14:55:41.2	148.9	11.7					
	e PKPbc	Z	14:55:45.0							
IBBN	e PKPbc	Z	14:55:46.2	149.3	7.5					
	e PKPab	Z	14:55:51.3							
	e pPKPbc	Z	14:56:33.4							
CLZ	e PKPdf	Z	14:55:42.2	149.5	12.4					
	e PKPbc	Z	14:55:46.8							
	e PKPab	Z	14:55:52.1							
	e pPKPbc	Z	14:56:33.7							
CLL	e PKPbc	Z	14:55:46.8	149.6	17.4					
	e pPKPbc	Z	14:56:33.7							
BRG	e PKPdf	Z	14:55:42.7	149.8	19.3					
	e PKPbc	Z	14:55:47.5							
	e PKPab	Z	14:55:53.1							
BUG	e PKPab	Z	14:55:54.7	150.2	6.8					
MOX	e PKPdf	Z	14:55:43.5	150.5	15.2					
	e PKPbc	Z	14:55:48.9							

	e PKPab	Z	14:55:55.7			
	e pPKPbc	Z	14:56:35.9			
WERD	e PKPdf	Z	14:55:43.7	150.6	16.6	
	e PKPbc	Z	14:55:49.2			
	e PKPab	Z	14:55:56.2			
	e pPKPbc	Z	14:56:36.3			
GUNZ	e PKPbc	Z	14:55:49.6	150.6	16.6	
	e PKPab	Z	14:55:56.7			
	e pPKPbc	Z	14:56:36.3			
GRA1	e PKPbc	Z	14:55:51.4	151.5	14.9	
	e PKPab	Z	14:56:00.4			
GEC2	e PKPbc	Z	14:55:51.9	151.8	20.1	
	e PKPab	Z	14:56:01.6			
	e pPKPbc	Z	14:56:39.0			
WLF	e PKPbc	Z	14:55:53.2	152.1	5.0	
	e PKPab	Z	14:56:03.1			
	e pPKPbc	Z	14:56:40.3			
STU	e PKPbc	Z	14:55:53.7	152.7	11.3	
	e PKPab	Z	14:56:05.0			
	e pPKPbc	Z	14:56:41.1			
FUR	e PKPab	Z	14:56:06.4	152.9	15.8	
	e pPKPbc	Z	14:56:42.2			
BFO	e PKPbc	Z	14:55:54.8	153.2	9.7	
	e PKPab	Z	14:56:07.2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/23								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPbc	Z	15:47:28.2							
BSEG	e PKPbc	Z	15:47:23.5							
CLL	e PKPbc	Z	15:47:27.6							
CLZ	e PKPbc	Z	15:47:28.4							
GEC2	e PKPbc	Z	15:47:32.4							
GUNZ	e PKPbc	Z	15:47:30.6							
MOX	e PKPbc	Z	15:47:30.1							
NRDL	e PKPbc	Z	15:47:26.8							
WERD	e PKPbc	Z	15:47:30.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/23								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z	23:08:07.3							
BRG	e PKP	Z	23:08:10.9							

CLL	e PKP	Z	23:08:10.4	
CLZ	e PKP	Z	23:08:11.0	
GEC2	e PKP	Z	23:08:09.5	
GUNZ	e PKP	Z	23:08:13.7	
TANN	e PKP	Z	23:08:13.3	
WERD	e PKP	Z	23:08:13.1	
WET	e PKP	Z	23:08:11.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/24	04:39:49.5	15.450N	46.043W	33.0N	4.7			SZGRF

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:49:34.4	57.3	254.5	1.6	13	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/24	10:05:41.5	32.750N	91.630E	33.0G	5.9	5.2		SZGRF

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	10:15:28.3	57.5	77.0	1.3	102	5.7		
BRG	e P	Z	10:15:30.7	57.8	76.2	1.6	140	5.7		
CLL	e P	Z	10:15:34.1	58.3	75.8	1.7	140	5.7		
GEC2	e P	Z	10:15:35.6	58.5	74.8	1.4	174	5.9		
WET	e P	Z	10:15:38.6	58.9	74.4	1.9	202	5.8		
WERD	e P	Z	10:15:38.6	58.9	74.8	1.6	120	5.7		
GUNZ	e P	Z	10:15:38.6	58.9	74.8	1.5	162	5.8		
BSEG	e P	Z	10:15:41.1	59.2	75.4	1.1	108	5.8		
MOX	e P	Z	10:15:41.1	59.3	74.5	1.7	154	5.8		
NRDL	e P	Z	10:15:44.2	59.7	74.5	1.4	256	6.1		
CLZ	e P	Z	10:15:44.3	59.7	74.3	1.2	146	5.9		
GRA1	e P	Z	10:15:45.5	59.8	73.7	1.5	226	6.0		
	e		10:15:47.2							
	e PP	Z	10:17:59.5							
	e S	R	10:23:59.9							
	e SS	R	10:28:07.8							
	e L	Z	10:45:13.4			21.2	1847		5.2	
	e P'P'df	Z	10:45:13.8							
FUR	e P	Z	10:15:48.1	60.2	72.9	1.3	284	6.1		
IBBN	e P	Z	10:15:53.6	61.1	72.7	1.5	198	5.7		
STU	e P	Z	10:15:55.3	61.3	71.9	1.6	266	6.2		
BUG	e P	Z	10:15:57.8	61.7	72.0	1.7	168	6.0		
BFO	e P	Z	10:15:59.0	62.0	71.1	1.5	151	6.0		
WLF	e P	Z	10:16:05.9	62.9	70.3	1.4	260	6.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/24	12:38:50.5	38.634N	23.502E	14.0G	3.7			the-m

Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:42:20.4	14.1	137.0					
CLL	e P	Z	12:42:26.3	14.7	145.8	0.6	8			
CLZ	e P	Z	12:42:45.5	16.1	140.1	1.4	8	3.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/24								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	14:59:01.4							
	e Sn(?)	N	14:59:53.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/24								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:27:49.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/24	23:04:50.2	69.186N	16.542W	33.0N	4.5			SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:09:58.9	23.6	335.6	0.4	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/25	02:22:19.0	62.250N	146.350W	33.0N	5.5	3.9		SZGRF

Central Alaska, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	02:32:40.6	62.4	348.0	1.1	20	5.2		
NRDL	e P	Z	02:32:49.7	63.8	348.0	1.1	22	5.3		
RUE	e P	Z	02:32:52.9	64.2	349.9	1.1	53	5.7		
BUG	e P	Z	02:32:53.9	64.4	346.7	1.0	33	5.5		
CLZ	e P	Z	02:32:54.7	64.4	348.2	1.1	41	5.6		

CLL	e P	Z	02:32:59.4	65.3	349.6	1.1	28	5.4	
MOX	e P	Z	02:33:02.9	65.8	349.0	0.9	37	5.6	
BRG	e P	Z	02:33:03.1	65.8	350.1	1.2	38	5.5	
WLF	e P	Z	02:33:04.6	66.0	346.4	1.2	42	5.6	
WERD	e P	Z	02:33:04.4	66.0	349.3	1.1	24	5.3	
GUNZ	e P	Z	02:33:05.2	66.1	349.3	1.1	27	5.4	
GRA1	e P	Z	02:33:08.8	66.6	348.8	1.1	35	5.5	
	e PP	Z	02:35:23.9						
	e S	N	02:42:17.3						
	e L	Z	03:03:23.2			21.8	72		3.9
STU	e P	Z	02:33:12.6	67.3	347.9	0.7	11	5.2	
WET	e P	Z	02:33:13.6	67.4	349.7	1.2	52	5.6	
BFO	e P	Z	02:33:14.1	67.6	347.6	1.4	31	5.4	
GEC2	e P	Z	02:33:15.8	67.8	350.1	1.2	27	5.4	
FUR	e P	Z	02:33:18.0	68.2	349.0	1.0	61	5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/25	03:59:24.0			G				neic-m

Central Alaska, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:19:03.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/25	05:19:12.0	43.893N	142.413E	33.0N	5.3			SZGRF

Hokkaido, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:31:03.0	77.2	33.8	0.8	18	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/25	13:53:28.8	35.673N	92.427E	33.0N	4.7			SZGRF

Qinghai, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:03:20.9	58.3	70.6	1.0	9	4.7		
	e		14:03:27.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z	18:55:39.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/26	23:11:41.5	64.466N	86.590W	26.2				SZGRF

Northwest Territories, Canada

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:20:28.7	49.4	325.8					
	e pP	Z	23:20:35.8							
	e sP	Z	23:20:38.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/27	00:44:26.3	26.500S	67.500W	33.0N		5.7		SZGRF

Catamarca Province, Argentina

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PP	Z	01:02:22.1	100.8	242.1					
	e SP	Z	01:11:17.9							
STU	e PP	Z	01:02:25.3	101.5	242.7					
	e SP	Z	01:11:25.0							
BUG	e PP	Z	01:02:26.5	101.7	241.9					
IBBN	e SP	Z	01:11:44.1	102.3	242.4					
FUR	e SP	Z	01:11:35.0	102.5	244.0					
GRA1	e Pdiff	Z	00:58:18.7	103.1	244.3					
	e PP	Z	01:02:33.8							
	e SKSac	R	01:08:44.7							
	e SP	Z	01:11:40.6							
	e SS	T	01:17:32.9							
	e L	Z	01:46:46.0			19.0	2307		5.7	
CLZ	e PP	Z	01:02:42.6	103.6	244.2					
	e SP	Z	01:11:47.7							
NRDL	e PP	Z	01:02:38.0	103.7	244.1					
	e SP	Z	01:11:49.3							
MOX	e PP	Z	01:02:38.6	103.8	244.8					
	e SP	Z	01:11:48.0							
WET	e PP	Z	01:02:43.0	103.9	245.3					
	e SP	Z	01:11:49.7							
GEC2	e PP	Z	01:02:40.1	104.2	245.8					
	e SP	Z	01:11:52.5							
BSEG	e PP	Z	01:02:46.4	104.4	244.6					
	e SP	Z	01:11:51.7							
CLL	e PP	Z	01:02:45.9	104.8	245.9					
	e SP	Z	01:11:59.3							
BRG	e PP	Z	01:02:52.8	105.2	246.5					

	e SP	Z	01:12:02.0			
RUE	e PP	Z	01:02:55.9	105.7	246.8	
	e SP	Z	01:12:07.1			
RGN	e PP	Z	01:03:00.7	106.3	247.0	
	e SP	Z	01:12:12.9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/27	21:47:36.0	43.957N	10.261E	10.0G			3.4	SZGRF

Central Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
DAVA	e Pn	Z	21:48:28.5	3.3	175.3					3.6
	e Sn	N	21:49:08.4							
WTTA	e Pn	Z	21:48:30.4	3.4	196.7					
KBA	e Pn	Z	21:48:34.8	3.8	215.8					3.5
OBKA	e Pn	Z	21:48:36.1	4.0	231.3					3.6
MOA	e Pn	Z	21:48:48.1	4.8	217.1					
ARSA	e Pn	Z	21:48:49.5	4.9	230.1					3.0
	e Sn	N	21:49:47.3							
GEC2	e Pn	Z	21:48:55.5	5.4	207.2					
	e Sn	N	21:49:56.5							
WET	e Sn	Z	21:49:56.9	5.5	200.1					
GUNZ	e Sn	N	21:50:24.2	6.6	193.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/27	23:59:59.9	44.793N	147.000E	33.0N	4.6			SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:11:55.3	78.0	30.4	1.3	7	4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z	04:39:37.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28								

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

GRA1	e	PKP	Z	05:33:56.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	09:08:39.6	5.585S	151.680E	33.0N				gsrc

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPdf	Z 09:27:34.9	122.4	47.4					
BRG	e	PKPdf	Z 09:27:34.8	122.7	52.7					
CLL	e	PKPdf	Z 09:27:35.1	122.9	51.5					
NRDL	e	PKPdf	Z 09:27:36.7	123.5	47.9					
WERD	e	PKPdf	Z 09:27:36.7	123.8	51.2					
CLZ	e	PKPdf	Z 09:27:37.4	123.8	48.5					
GUNZ	e	PKPdf	Z 09:27:37.3	123.8	51.3					
MOX	e	PKPdf	Z 09:27:37.2	124.0	50.4					
GEC2	e	PKPdf	Z 09:27:37.3	124.0	53.5					
WET	e	PKPdf	Z 09:27:38.4	124.3	52.5					
IBBN	e	PKPdf	Z 09:27:39.2	124.7	45.4					
GRA1	e	PKPdf	Z 09:27:38.8	124.8	50.5					
FUR	e	PKPdf	Z 09:27:41.5	125.7	51.4					
STU	e	PKPdf	Z 09:27:42.4	126.4	48.9					
BFO	e	PKPdf	Z 09:27:43.3	127.1	48.2					
WLF	e	PKPdf	Z 09:27:44.5	127.2	45.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	09:08:47.3	17.362S	176.473W	33.0N				SZGRF

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e	PKPbc	Z 09:28:14.2	143.0	10.8					
RUE	e	PKPbc	Z 09:28:16.4	144.0	16.8					
NRDL	e	PKPbc	Z 09:28:18.5	144.5	10.9					
CLZ	e	PKPbc	Z 09:28:20.3	145.1	11.5					
CLL	e	PKPbc	Z 09:28:20.5	145.2	16.0					
BRG	e	PKPbc	Z 09:28:21.4	145.5	17.7					
MOX	e	PKPbc	Z 09:28:23.3	146.1	13.9					
WERD	e	PKPbc	Z 09:28:23.5	146.2	15.2					
GUNZ	e	PKPbc	Z 09:28:23.9	146.3	15.2					
GRA1	e	PKPbc	Z 09:28:26.3	147.1	13.6					
GEC2	e	PKPbc	Z 09:28:26.9	147.4	18.3					
WLF	e	PKPbc	Z 09:28:28.3	147.6	4.7					
BFO	e	PKPbc	Z 09:28:30.3	148.8	8.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	13:41:29.8	34.715S	70.215W	10.0G		6.8		neic-m

Chile-Argentina border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	e Pdiff	Z	13:55:54.5	108.0	237.1					
	e PP	Z	14:00:19.1							
BFO	e Pdiff	Z	13:55:55.8	108.5	238.1					
	e PP	Z	14:00:20.9							
STU	e Pdiff	Z	13:55:59.3	109.2	238.8					
	e PP	Z	14:00:23.7							
BUG	e Pdiff	Z	13:55:59.0	109.5	238.4					
	e PP	Z	14:00:29.8							
FUR	e Pdiff	Z	13:56:00.6	110.1	239.9					
	e PP	Z	14:00:35.7							
IBBN	e Pdiff	Z	13:56:02.5	110.2	239.0					
	e PP	Z	14:00:37.2							
GRA1	e Pdiff	Z	13:56:04.7	110.8	240.4					
	e PP	Z	14:00:41.5							
	e SKSac	R	14:06:44.4							
	e Sdiff	T	14:08:25.9							
	e PS	E	14:10:17.5							
	e PKKPab	Z	14:11:19.3							
	e SS	T	14:16:16.1							
	e SSS	T	14:20:13.2							
	e L	Z	14:48:41.8			19.2	26024		6.8	
HLG	e Pdiff	Z	13:56:09.2	111.3	239.7					
	e PP	Z	14:00:44.0							
CLZ	e Pdiff	Z	13:56:07.9	111.4	240.6					
	e PP	Z	14:00:44.5							
WET	e Pdiff	Z	13:56:06.4	111.5	241.3					
	e PP	Z	14:00:45.3							
MOX	e Pdiff	Z	13:56:08.5	111.5	241.0					
	e PP	Z	14:00:45.2							
NRDL	e Pdiff	Z	13:56:06.6	111.6	240.6					
	e PP	Z	14:00:47.6							
GEC2	e Pdiff	Z	13:56:17.2	111.8	241.7					
	e PP	Z	14:00:47.2							
BSEG	e Pdiff	Z	13:56:10.2	112.4	241.3					
	e PP	Z	14:00:51.1							
CLL	e Pdiff	Z	13:56:12.6	112.6	242.1					
	e PP	Z	14:00:53.5							
BRG	e Pdiff	Z	13:56:18.5	112.9	242.6					
	e PP	Z	14:00:55.9							
RUE	e Pdiff	Z	13:56:16.5	113.5	243.1					
	e PP	Z	14:01:01.5							
RGN	e Pdiff	Z	13:56:24.8	114.2	243.6					
	e PP	Z	14:01:03.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	15:08:06.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	16:09:35.1	8.700S	157.300E	10.0N				NEIC-M

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	16:28:45.6	130.2	46.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	16:13:14.6	8.700S	157.200E	10.0N				NEIC-M

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:32:25.8	130.2	46.4					
	e PP	Z	16:34:40.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	17:00:58.6	8.712S	157.195E	10.0G				neic-m

Bougainville - Solomon Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z	17:20:04.6	127.6	43.0					
BRG	e PKPdf	Z	17:20:05.0	128.1	48.7					
CLL	e PKPdf	Z	17:20:04.9	128.3	47.4					
CLZ	e PKPdf	Z	17:20:07.1	129.1	44.2					
WERD	e PKPdf	Z	17:20:07.3	129.2	47.2					
GUNZ	e PKPdf	Z	17:20:07.4	129.2	47.2					
MOX	e PKPdf	Z	17:20:06.7	129.4	46.3					
GEC2	e PKPdf	Z	17:20:07.8	129.6	49.7					
WET	e PKPdf	Z	17:20:08.9	129.8	48.6					
GRA1	e PKPdf	Z	17:20:09.3	130.2	46.4					
GRFO	e PKPdf	Z	17:20:09.3	130.2	46.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28	22:16:48.3	41.201N	19.795E	10.0G				SZGRF

Albania

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
OBKA	e Pn	Z	22:18:23.5	6.5	142.7					
ARSA	e Pn	Z	22:18:26.9	6.8	151.6					
KBA	e Pn	Z	22:18:36.3	7.5	139.5					
	e Sn	N	22:19:57.3							
MOA	e Pn	Z	22:18:40.5	7.7	147.4					
WTTA	e Pn	Z	22:18:49.2	8.4	133.1					
	e Sn	E	22:20:20.2							
GEC2	e Pn	Z	22:18:53.6	8.8	148.4					
	e Sn	E	22:20:29.5							
WET	e Pn	Z	22:19:00.8	9.3	145.9					
DAVA	e Pn	Z	22:19:02.3	9.3	127.0					
	e Sn	E	22:20:43.0							
MOX	e Pn	Z	22:19:24.2	11.0	145.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	23:34:00.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/29	06:08:23.6	26.029N	128.607E	33.0N	4.7			SZGRF

Ryukyu Islands, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:21:01.8	86.1	53.1	0.9	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/29	09:24:57.0	38.590N	15.425E	210.0G				ingv-m

Sicily, Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z	09:27:16.0	10.0	161.1					
GEC2	e P	Z	09:27:19.1	10.3	172.5					
WET	e P	Z	09:27:24.1	10.7	169.2					
BFO	e P	Z	09:27:27.5	11.0	149.6					
GRA1	e P	Z	09:27:33.7	11.5	163.3					
GUNZ	e P	Z	09:27:40.5	12.0	168.3					
WERD	e P	Z	09:27:42.0	12.1	168.3					

BRG	e P	Z	09:27:45.2	12.3	174.6	
MOX	e P	Z	09:27:44.6	12.4	166.0	
CLL	e P	Z	09:27:51.6	12.8	171.4	
WLF	e P	Z	09:27:52.1	12.9	145.7	
CLZ	e P	Z	09:28:02.8	13.7	163.1	
BUG	e P	Z	09:28:07.2	14.1	152.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/29	23:29:44.3	3.952N	35.285W	33.0N	4.5			SZGRF

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:39:49.5	60.2	236.5	1.4	7	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/30	01:10:12.2	22.400S	170.130E	33.0N				SZGRF

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z	01:29:44.8	145.0	33.8					
BRG	e PKPbc	Z	01:29:48.3	146.0	41.9					
CLL	e PKPbc	Z	01:29:48.3	146.1	40.1					
NRDL	e PKPbc	Z	01:29:48.4	146.2	34.6					
CLZ	e PKPbc	Z	01:29:50.3	146.7	35.6					
WERD	e PKPbc	Z	01:29:51.2	147.0	39.9					
GUNZ	e PKPbc	Z	01:29:51.2	147.1	40.0					
MOX	e PKPbc	Z	01:29:51.3	147.2	38.6					
IBBN	e PKPbc	Z	01:29:51.6	147.2	31.1					
GEC2	e PKPbc	Z	01:29:52.5	147.6	43.7					
WET	e PKPbc	Z	01:29:53.8	147.8	42.1					
GRA1	e PKPbc	Z	01:29:54.4	148.1	39.0					
STU	e PKPbc	Z	01:29:58.3	149.6	36.6					
WLF	e PKPbc	Z	01:29:59.7	150.0	30.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/30	04:44:44.5	15.049N	93.224W	33.0N	5.3	4.5		SZGRF

Near coast of Chiapas, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:57:27.3	87.6	290.6	1.7	28	5.3		
	e		04:57:36.9							
	e L	Z	05:38:19.5			19.3	175		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/30	05:35:38.2	33.945N	116.926W	33.0N	4.7			SZGRF

Southern California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:48:08.6	84.6	319.1	1.0	5	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/30	12:23:25.5	49.380N	156.190E	33.0N	6.3	5.9		SZGRF

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	12:34:45.4	71.5	24.5	0.9	906	6.9		
BSEG	e P	Z	12:34:52.4	72.8	22.5	1.0	260	6.3		
RUE	e P	Z	12:34:55.4	73.3	24.5	0.9	594	6.6		
NRDL	e P	Z	12:35:00.3	74.1	22.2	1.1	196	6.0		
CLL	e P	Z	12:35:02.2	74.5	23.9	1.0	517	6.5		
CLZ	e P	Z	12:35:03.8	74.7	22.3	1.2	531	6.4		
BRG	e P	Z	12:35:03.3	74.7	24.4	1.3	237	6.1		
IBBN	e P	Z	12:35:04.9	74.8	20.7	1.5	400	6.2		
MOX	e P	Z	12:35:08.1	75.5	22.9	1.2	231	6.2		
WERD	e P	Z	12:35:08.2	75.5	23.4	1.5	426	6.3		
GUNZ	e P	Z	12:35:08.7	75.6	23.4					
BUG	e P	Z	12:35:09.8	75.8	20.3	1.5	318	6.2		
GRA1	e P	Z	12:35:14.0	76.5	22.6	1.3	545	6.5		
	e L	Z	13:13:59.3			18.7	5600		5.9	
WET	e P	Z	12:35:14.7	76.6	23.6	1.2	391	6.4		
GEC2	e P	Z	12:35:14.5	76.6	24.0	1.4	211	6.1		
STU	e P	Z	12:35:21.7	77.8	21.3	1.8	347	6.2		
FUR	e P	Z	12:35:21.9	77.9	22.5	1.5	458	6.4		
BFO	e P	Z	12:35:24.4	78.4	20.7	1.1	76	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31	04:34:17.0	29.594N	54.011E	33.0N	4.2			SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:41:31.1	37.9	105.8	1.0	5	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31	11:55:19.0	17.053S	168.579E	235.0G				neir

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:08:45.6	142.6	37.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31	11:52:13.2			N				SZGRF

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z	12:12:10.9							
	e		12:12:33.2							
BRG	e PKP	Z	12:12:01.4							
BSEG	e PKP	Z	12:11:58.1							
	e		12:12:08.4							
CLL	e PKP	Z	12:12:01.1							
	e		12:12:13.6							
CLZ	e PKP	Z	12:12:02.7							
GEC2	e PKP	Z	12:12:05.0							
GRA1	e PKP	Z	12:12:06.6							
	e		12:12:23.3							
GUNZ	e PKP	Z	12:12:03.7							
	e		12:12:18.5							
MOX	e PKP	Z	12:12:03.6							
NRDL	e PKP	Z	12:12:01.2							
UBBA	e PKP	Z	12:12:04.9							
WERD	e PKP	Z	12:12:03.6							
WET	e PKP	Z	12:12:05.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z	13:38:03.3							
CLL	e PKP	Z	13:38:02.8							
CLZ	e PKP	Z	13:38:03.2							
GUNZ	e PKP	Z	13:38:05.4							
MOX	e PKP	Z	13:38:04.7							
TANN	e PKP	Z	13:38:05.8							
WERD	e PKP	Z	13:38:05.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31	16:25:14.0	7.300N	126.900E	40.0N		5.6		NEIR-M

Mindanao, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e SKSac	R	16:49:29.6	98.4	67.4					
CLL	e SKSac	R	16:49:27.2	98.7	66.6					
GEC2	e SKSac	R	16:49:29.9	99.3	67.5					
WET	e SKSac	R	16:49:33.2	99.7	66.8					
NRDL	e SKSac	R	16:49:37.8	99.9	64.0					
CLZ	e SKSac	R	16:49:38.8	100.0	64.3					
GRA1	e Pdiff	Z	16:38:59.8	100.4	65.4	1.1	17			
	e SKSac	R	16:49:36.9							
	e L	Z	17:28:50.5			19.5	1900		5.6	
BFO	e SKSac	R	16:49:45.9	102.7	63.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	17:43:35.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31	18:17:20.9			N				SZGRF

Mindanao, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z	18:37:10.8							
BRG	e PKP	Z	18:36:54.5							
BUG	e PKP	Z	18:37:03.3							
CLL	e PKP	Z	18:36:54.3							
CLZ	e PKP	Z	18:36:57.0							
GEC2	e PKP	Z	18:36:59.7							
GRA1	e PKP	Z	18:37:01.3							
GUNZ	e PKP	Z	18:36:58.2							
HLG	e PKP	Z	18:36:54.0							
MOX	e PKP	Z	18:36:57.8							
WERD	e PKP	Z	18:36:57.9							
WET	e PKP	Z	18:37:00.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	22:30:18.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2004/08/31	22:27: 2.3	30.609N	51.807E	33.0N	4.5			SZGRF

Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:33:58.8	35.8	106.8	1.0	8	4.5		

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

EPICENTER LINES:

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

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

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

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

PHASE LINE:

Sta	Station code of the reported phase
Phase	Preceded flag for the sharpness of the onset of the phase e – emergent i – impulsive w – weak ISC phase code Flag for the direction of the first motion '+' – compression '–' – dilatation 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