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)

JULY 2000

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
2000/07/01	00:10:41.3	32.690N	140.590E	21.9	4.2			SZGRF
2000/07/01	00:10:49.9	34.358N	139.418E	10G	4.6			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:23:22.9	84.3	40.7	0.7	2	4.2		
	e pP	Z	00:23:29.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	23:28:27.8	34.403N	139.061E	10G	4.9	4.4		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:41:07.1	84.1	40.9	0.9	8	4.9		
	e		23:41:13.0							
	e L	Z	00:26:23.1			18.0	249		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	03:08:46.4	34.900N	139.160E	33.0N				SZGRF
2000/07/01	03:08:38.4	34.520N	139.630E	10G	4.4			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:21:12.2	84.2	40.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	04:48:56.0	34.767S	178.564E	240D	5.2			NEIC

South of Kermadec Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPdf	+ Z	05:08:25.7			1.2	23			
	e PKPbc	Z	05:08:39.1			1.3	16			
	i PKPab	- Z	05:09:08.9			1.2	35			
GRA1	e PKPdf	Z	05:08:27.1	162.4	36.6					
	e PKPab	Z	05:09:17.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	07:01:55.6	34.211N	139.134E	10G	6.0	6.0		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	e P	Z	07:14:14.4	81.1	43.1	1.2	80	5.7		
	e PP	Z	07:17:22.6							
BSEG	e P	Z	07:14:15.4	81.4	40.7	1.2	61	5.6		
	e PP	Z	07:17:25.3							
BRG	e P	Z	07:14:19.3	82.2	43.0	1.4	40	5.5		
	e PP	Z	07:17:30.4							
CLL	i P	- Z	07:14:19.3			1.2	52	5.6		
	e PP	Z	07:17:33.8			7.9	1594			
	e S	E	07:24:33.9							
	e SS	E	07:29:54.1							
	e L	Z	07:54:31.1			18.0	13465		6.4	
CLZ	e P	Z	07:14:23.4	83.0	40.5	1.4	66	5.7		
MOX	e P	Z	07:14:25.6	83.4	41.3	1.4	43	5.5		
	e PP	Z	07:17:38.6							
IBBN	e P	Z	07:14:26.5	83.6	38.6	1.3	65	5.7		
GEC2	e P	Z	07:14:27.7	83.8	42.7	1.2	23	5.3		
	e PP	Z	07:17:45.0							
WET	e P	Z	07:14:28.8	84.0	42.1	1.4	44	5.5		
	e PP	Z	07:17:48.7							
GRA1	e P	Z	07:14:30.8	84.3	41.0	1.4	117	5.9		
	e PP	Z	07:17:47.8							
	e S	N	07:24:55.6							
	e SS	N	07:30:27.1							
	e L	Z	08:00:00.5			18.8	16100		6.4	
BUG	e P	Z	07:14:31.0	84.5	38.2	1.2	53	5.6		
TNS	e P	Z	07:14:33.8	85.0	39.0	1.3	43	5.4		
FUR	e P	Z	07:14:36.1	85.4	40.9	1.0	58	5.6		
	e PP	Z	07:17:57.8							
STU	e P	Z	07:14:37.9	85.8	39.5	1.5	85	5.6		
BFO	e P	Z	07:14:40.9	86.5	38.8	1.3	48	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	07:11:41.7	34.068N	139.215E	10G	4.7			NEIC

Southeast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	07:24:17.9	84.4	41.0	1.8	24	5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	07:53:17.6			N	4.5			SZGRF
2000/07/01	07:53:19.2	34.097N	139.312E	10G	4.3			NEIC

Off east coast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	08:05:55.7	84.4	40.9			4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	09:39:37.9	34.019N	139.085E	10G	4.5			NEIC

Southeast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	09:52:17.1	84.4	41.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	15:00:24.1	34.630N	141.740E	33.0N				SZGRF
2000/07/01	15:00:23.0	34.390N	139.520E	10G	4.4			NEIC

Off east coast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	15:12:56.5	84.3	40.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	17:30:54.5	35.260N	139.890E	33.0N				SZGRF

Near south coast of eastern Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	17:43:20.3	83.7	39.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	17:48:47.2	34.690N	141.550E	33.0N				SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:01:18.9	84.8	39.0					
	e		18:01:22.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	19:23:56.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:03:03.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	21:53:27.2	34.029N	139.126E	10G	4.6			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:06:03.0	84.4	41.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/01	22:38:45.6	39.810N	28.070W	33.0N	4.4	4.1		SZGRF

Azores Islands, Portugal

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:44:44.6	29.2	265.4			4.4		
	e L	Z	22:57:49.3			20.5	433		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/02	01:59:43.0	35.250N	140.460E	33.0N	4.8			SZGRF
2000/07/02	01:59:32.7	34.102N	139.400E	10G	4.6			NEIC

Near east coast of eastern Honshu, Japan

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

GRA1	e P	Z	02:12:10.0	84.5	40.8		4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/02	04:27:56.6	24.511N	94.742E	79D	5.0			NEIC

Myanmar-India border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:38:47.6	67.5	78.1	1.1	28	5.4		
	e		04:39:08.7							
	e L	Z	05:07:02.7			34.3	312		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/02	05:30:47.9	45.810N	11.670E	10.0G			2.5	SZGRF
2000/07/02	05:30:29.1	44.278N	12.122E	10G				NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	05:31:39.4	4.7	194.0					2.6
	e Sg	N	05:32:32.8							
GRC1	e Sg	N	05:32:31.4	4.7	174.8					2.4
BFO	e Pn	Z	05:31:41.7	4.8	145.7					2.5
	e Sg	N	05:32:34.8							
WET	e Pn	Z	05:31:42.2	4.9	186.4					2.6
	e Sg	N	05:32:36.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/02	17:20:43.8	34.620N	142.710E	33.0N	4.8	4.2		SZGRF
2000/07/02	17:20:43.4	34.391N	139.191E	10G	4.6			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:33:18.1	84.1	40.8	0.8	6	4.8		
	e L	Z	18:18:33.3			19.5	92		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/02	19:42:46.9	34.352N	139.350E	10G	5.1	4.5		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:55:20.5	84.2	40.7	1.2	10	4.9		
	e		19:55:40.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/02	20:03:34.7	34.044N	139.204E	10G	5.4	5.3		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	i P	Z	20:15:47.1	80.0	43.0	1.0	99	5.8		
	e PP	Z	20:18:48.3							
BSEG	i P	- Z	20:15:55.7	81.6	40.7	1.1	75	5.7		
	e PP	Z	20:19:02.0							
BRG	i P	- Z	20:16:00.0	82.4	43.0	1.0	28	5.4		
	e PP	Z	20:19:11.3							
CLL	i P	- Z	20:16:00.2			1.0	67	5.8		
	e PP	Z	20:19:08.0			8.3	247			
	e S	N	20:26:08.1							
	e L	Z	20:51:39.6			18.0	2736		5.7	
CLZ	i P	- Z	20:16:04.1	83.2	40.6	1.2	82	5.8		
MOX	i P	- Z	20:16:05.8	83.5	41.4	1.2	54	5.6		
IBBN	i P	- Z	20:16:07.1	83.8	38.7	0.9	38	5.6		
GEC2	i P	- Z	20:16:08.0	84.0	42.7	1.0	32	5.5		
	e PP	Z	20:19:24.8							
WET	i P	- Z	20:16:08.9	84.1	42.2	1.2	36	5.5		
GRA1	i P	- Z	20:16:11.0	84.4	41.0	1.0	89	5.9		
	e L	Z	21:01:42.0			19.0	2985		5.7	
BUG	i P	Z	20:16:11.3	84.7	38.2	1.1	70	5.8		
TNS	i P	- Z	20:16:14.0	85.2	39.0	1.4	66	5.6		
FUR	i P	- Z	20:16:16.2	85.6	41.0	0.9	77	5.8		
BFO	i P	- Z	20:16:21.4	86.7	38.9	1.2	62	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	00:50:19.3	36.120N	136.820E	33.0N				SZGRF

Near west coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:02:34.6	81.6	41.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	00:53: 0.5	35.190N	139.940E	13.1	5.5	4.5		SZGRF
2000/07/03	00:52:56.6	34.054N	139.207E	10G	5.1	4.4		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	01:05:32.5	84.4	41.0	1.1	34	5.5		

e pP	Z	01:05:36.3					
e L	Z	01:57:35.2			19.3	219	4.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	01:04:44.6	36.480N	139.710E	33.0N	4.7			SZGRF
2000/07/03	01:04:26.7	34.140N	139.570E	10G	4.6			NEIC

Eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:17:04.6	84.5	40.7	0.6	3	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	02:02:44.1	33.820N	143.120E	9.5	4.8	4.4		SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:15:26.2	86.2	38.3	1.4	12	4.8		
	e pP	Z	02:15:29.0							
	e		02:15:39.0							
	e L	Z	02:57:35.1			19.8	144		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	02:41:25.9	38.650N	131.440E	33.0N				SZGRF

Sea of Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:53:16.8	77.2	43.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	03:15:15.6	33.870N	139.340E	10.0G	5.3	4.3		SZGRF
2000/07/03	03:15:14.1	34.202N	139.160E	10G	4.9	4.3		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:27:49.6	84.3	41.0	1.1	25	5.3		
	e pP	Z	03:27:53.1							
	e L	Z	04:12:14.6			20.9	131		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	03:36:33.2	35.240N	140.750E	33.0N	5.1	4.4		SZGRF
2000/07/03	03:36:21.7	34.164N	139.383E	10G	4.8	4.0		NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:49:00.9	84.4	40.8	0.9	10	5.1		
	e L	Z	04:29:32.9			18.9	167		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	13:24:31.3	31.226N	131.432E	33N	4.9	4.8		NEIC

Kyushu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	13:36:46.9			0.6	16	5.3		
	e pP	Z	13:36:57.9							
	e PP	Z	13:39:59.5							
	e S	E	13:46:58.7							
	e SS	Z	13:52:44.6							
	e L	Z	14:17:09.8			18.0	3512		5.8	
	e Lm	Z	14:17:44.2			15.4	4796			
GRA1	e P	Z	13:36:58.6	83.3	48.1			5.4		
	e PP	Z	13:40:07.9							
	e L	Z	14:18:27.9			19.4	2408		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	14:28:29.0	33.150N	139.300E	33.0N	4.8			SZGRF
2000/07/03	14:28:23.1	34.072N	139.334E	10G	4.7			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:41:02.7	84.5	40.9	1.0	7	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03	16:50:44.1			N				SZGRF

Ascension Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:00:57.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/03								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:30:39.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	00:04: 5.1			N	4.6			SZGRF
2000/07/04	00:04:08.6	36.146N	70.488E	33N	4.5			NEIC

Afghanistan-Tajikistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:12:21.8	44.2	84.5			4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	06:53:51.4	34.102N	139.190E	10G	5.4	5.0		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	- Z	07:06:15.7			2.3	131	5.7		
	i		07:06:20.2							
	e PP	Z	07:09:22.5			6.3	265			
	e S	N	07:16:34.8							
	e PS	E	07:17:26.3							
	e SS	E	07:22:05.9							
	e L	Z	07:48:31.6			18.0	1312		5.4	
GRA1	e P	Z	07:06:27.4	84.4	41.0			5.8		
	e pP	Z	07:06:31.3							
	e L	Z	07:51:57.4			18.5	860		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	07:10:01.5	34.006N	138.907E	10G	4.7			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:22:37.8	84.3	41.2					
	e pP	Z	07:22:41.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	08:24:23.6	54.025N	165.128W	63	4.5			NEIC

Fox Islands, Aleutian Islands, United States

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

	GRA1	e P	Z	08:36:10.9	76.2	357.8					
		e L	Z	09:02:41.6			39.6	147		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	20:41:50.5	70.470N	10.860W	33.0N	4.3			SZGRF

Jan Mayen Island region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	20:46:55.1	23.2	341.4	0.8	8	4.3		
		e pP	Z	20:47:02.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	21:51:13.7	34.460N	139.760E	33.0N				SZGRF

Near south coast of eastern Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	22:03:42.8	84.3	40.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	22:19:44.2	20.186N	122.185E	33N	5.2	4.8		NEIC

Southeast of Taiwan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	22:32:36.2	87.4	61.3	1.7	27	5.3		
		e L	Z	23:15:45.5			20.6	549		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/04	23:02:49.2	43.473N	147.581E	33N	4.9	3.7		NEIC

Kuril Islands, Russia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	i P	+ Z	23:14:55.2	79.3	30.6	1.1	43	5.3		
		e		23:15:09.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	00:10:00.2	4.640S	101.999E	33N	5.4	4.9		NEIC

Southern Sumatera, Indonesia

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

	GRA1	e P	Z	00:23:17.3	94.0	92.4	0.9	12	5.2	
		e pP	Z	00:23:24.4						
		e L	Z	01:09:58.1			22.8	305		4.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05								

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z	00:36:30.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	01:16:56.1	35.270N	141.150E	33.0N				SZGRF

Near east coast of eastern Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	01:29:24.5	84.2	39.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05								

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	02:33:45.6			1.0	8	4.9		
		e L	Z	03:19:15.3			18.6	650		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	03:42:03.6	34.391N	139.618E	10G	4.7	4.5		NEIC

Southeast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	03:54:40.5	84.3	40.5	0.9	7	4.9		
		e L	Z	04:40:15.7			18.1	246		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	03:56:17.5			N				SZGRF
2000/07/05	03:56:09.4	34.027N	139.279E	10G	4.4			NEIC

Near east coast of eastern Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	04:08:45.1	84.5	41.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	09:26:43.9	36.288N	7.746W	10G	4.5			NEIC

Strait of Gibraltar

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA2	e P	Z	09:31:13.9	19.2	233.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	17:29:23.8	41.829N	47.809E	33N	4.2	3.4		NEIC

Eastern Caucasus

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	17:35:01.3	26.4	93.2					
		e L	Z	17:47:04.3			19.0	96		3.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	18:48:49.6			N	4.7			SZGRF
2000/07/05	18:50:20.4	33.875N	79.802E	33N	4.4			NEIC

India-Bangladesh border region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	18:59:27.2	51.6	80.5			4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05								

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	19:59:00.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	20:10:13.6	34.660N	142.130E	33.0N				SZGRF
2000/07/05	20:10:11.3	34.170N	139.331E	10G	4.8			NEIC

Off east coast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	20:22:46.7	84.4	40.9					
		e (pP)	Z	20:22:50.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/05	20:24:58.1			N	4.2			SZGRF

Iceland region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:30:02.5			0.9	7	4.2		
	e		20:30:08.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	00:00:34.2	11.756N	86.201W	5G	4.5	4.2		NEIC

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	02:22:29.7	34.205N	139.289E	10G	4.5			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:35:04.8	84.3	40.9	0.9	8	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	04:07:17.4	34.810N	140.490E	33.0N				SZGRF
2000/07/06	04:07:08.7	34.305N	139.469E	10G	4.9			NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:19:46.4	84.3	40.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	04:09:18.9	36.330N	142.800E	33.0N	5.4	4.4		SZGRF
2000/07/06	04:09:13.2	36.359N	142.580E	10G	5.2			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:21:46.0	83.8	37.4	0.8	18	5.4		
	e		04:22:09.1							
	e L	Z	05:01:36.6			20.0	154		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	04:51:29.2	17.522S	178.799W	550G	4.1			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	05:10:12.3	146.8	17.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	05:55:42.2	12.960N	88.814W	106	4.6			NEIC

Off coast of central America

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:08:17.5	86.5	286.0	0.8	7	4.9		
	e		06:08:34.7							
	e L	Z	06:41:57.1			21.8	218		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	06:15:28.6	53.196N	170.353E	33N	5.5	4.6		NEIC

Near Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:27:13.9	75.6	12.7	0.9	32	5.4		
	e L	Z	06:41:57.1			21.8	218		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	06:27:39.5	32.650N	141.160E	33.0N	5.3	4.6		SZGRF
2000/07/06	06:27:39.0	34.021N	139.249E	10G	4.9	4.3		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:40:19.2	84.5	41.0	1.0	28	5.3		
	e L	Z	07:25:56.7			18.2	236		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	06:56:05.4	15.164S	175.661W	301D	5.3			NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA3	i PKP	Z	07:15:09.0	144.9	11.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	08:34:29.4	30.079N	51.663E	33N	4.8	3.9		NEIC

Northern and central Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:41:31.7	36.1	107.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	13:20:02.5	34.157N	139.134E	10G	4.6	4.1		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:32:42.3	84.3	41.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	13:38:10.3	33.340N	143.700E	33.0N	4.7			SZGRF
2000/07/06	13:38:16.1	34.427N	138.973E	10G	4.8	4.5		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:50:52.2	84.0	41.0			4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	13:48:58.9	33.580N	139.550E	33.0N				SZGRF
2000/07/06	13:48:56.6	34.149N	139.387E	10G	4.9	4.5		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:01:31.3	84.4	40.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	14:16:55.1	34.900N	139.440E	33.0N		4.7		SZGRF
2000/07/06	14:16:49.4	34.700N	139.090E	10G	4.7	4.5		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:29:21.5	83.8	40.8					
	e		14:29:25.9							
	e L	Z	15:06:09.2			20.0	310		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	14:59:38.2	34.230N	142.150E	9.8	5.3	5.1		SZGRF
2000/07/06	14:59:40.3	34.267N	139.137E	10G	5.0	4.8		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:12:16.6	84.2	40.9	0.9	22	5.3		
	e pP	Z	15:12:19.4							
	e L	Z	15:57:45.0			19.1	684		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	15:48:49.8	33.330N	141.250E	33.0N	4.9	4.6		SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:01:26.8	85.9	39.9	0.7	8	4.9		
	e L	Z	16:46:50.9			18.8	254		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	17:01:12.8	34.810N	140.490E	33.0N	5.2			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:13:41.9	84.3	39.7	0.8	11	5.2		
	e		17:13:47.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	18:31:58.2	34.050N	140.190E	33.0N	4.9			SZGRF
2000/07/06	18:31:54.5	34.045N	139.337E	10G	4.8			NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:44:29.9	84.5	40.9	1.1	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	18:59:36.6	34.363N	139.177E	10G	4.8			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:12:15.4	84.1	40.9	0.9	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	19:15:10.1	32.850N	140.060E	9.3	5.1			SZGRF
2000/07/06	19:15:17.2	34.221N	139.297E	10G	4.8	4.4		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:27:53.6	84.3	40.9	1.0	15	5.1		
	e pP	Z	19:27:56.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	19:19:16.8	34.500N	139.680E	10G	4.4			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:31:53.8	84.2	40.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	19:30:16.8	11.886N	86.080W	5	5.0	5.1		NEIC

Near coast of Nicaragua

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:42:58.7	85.6	283.2	1.1	17	5.1		
	e L	Z	20:19:47.1			18.9	2196		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:40:37.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/06	21:51:11.9			N	4.9	4.9		SZGRF
2000/07/06	21:50:52.0	11.781N	86.157W	31	4.7	5.0		NEIC

Caribbean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:03:31.9	85.7	283.2	0.9	8	4.9		
	e L	Z	22:40:18.6			19.0	534		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	00:00:24.0			N		4.4		SZGRF

Off coast of central America

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:13:15.2							
	e L	Z	00:50:02.7			18.6	148		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	00:08:19.7	34.390N	142.870E	13.2	4.8			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:20:55.4	85.6	38.2	0.9	7	4.8		
	e pP	Z	00:20:59.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	02:45:26.7	34.145N	139.298E	10G	4.9	4.8		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:58:02.9	84.4	40.9	1.1	14	5.1		
	e pP	Z	02:58:09.4							
	e S	N	03:08:31.6							
	e SS	E	03:13:59.2							
	e L	Z	03:43:32.5			18.7	788		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	03:10:25.7	69.620N	11.630W	33.0N	4.7			SZGRF
2000/07/07	03:10:07.6	70.992N	13.168W	10G	4.4			NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:15:25.1	24.1	340.8	1.1	30	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	15:46:54.2	51.570N	178.720E	69.0	6.6	5.3		SZGRF
2000/07/07	15:46:49.0	51.464N	179.994E	69D	6.4			NEIC

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	i P	+ Z	15:58:17.7	73.4	8.6	0.8	1160	7.0		
	e pP	Z	15:58:36.5							
BSEG	i P	+ Z	15:58:22.6	74.2	6.7	0.8	909	6.8		
	e pP	Z	15:58:41.6							
RUE	i P	+ Z	15:58:28.7	75.4	8.8	0.9	477	6.6		
IBBN	i P	+ Z	15:58:32.8	76.0	5.0	0.9	1448	7.1		
	e pP	Z	15:58:51.8							
CLZ	i P	+ Z	15:58:34.5	76.3	6.6	0.9	740	6.8		
	e pP	Z	15:58:53.3							
CLL	i P	+ Z	15:58:35.2	76.6	8.3	0.8	298	6.5		
BUG	i P	+ Z	15:58:37.3	76.9	4.6	0.9	517	6.7		
BRG	i P	+ Z	15:58:37.2	77.0	8.9	0.8	258	6.4		
MOX	i P	+ Z	15:58:40.1	77.4	7.4	0.8	359	6.6		
TNS	i P	+ Z	15:58:43.8	78.1	5.4	0.8	482	6.7		
GRA1	i P	+ Z	15:58:46.1	78.4	7.1	0.8	682	6.7		
	e pP	Z	15:59:04.8							
	e PP	Z	16:01:43.2							
	e S	Z	16:09:32.3							
	e SS	E	16:14:06.2							
	e L	Z	16:40:27.4			20.7	1653		5.3	
WET	i P	+ Z	15:58:47.8	78.8	8.1	0.9	214	6.2		
GEC2	i P	+ Z	15:58:48.9	79.0	8.6	0.8	177	6.2		
STU	i P	+ Z	15:58:51.3	79.5	5.8	0.8	404	6.4		
	e pP	Z	15:59:10.1							
FUR	i P	+ Z	15:58:53.9	79.9	7.1	0.8	563	6.6		
	e pP	Z	15:59:12.6							
BFO	i P	+ Z	15:58:54.0	80.0	5.3	0.9	294	6.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	16:13:52.2			N	4.4			SZGRF
2000/07/07	16:14:16.1	34.152N	79.649E	33N	4.7			NEIC

Xizang

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:23:22.7	51.3	80.3			4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:25:27.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	17:33:29.3	4.354S	143.348E	122D	5.2			NEIC

New Guinea, Papua New Guinea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	- Z	17:52:07.0	119.4	58.1					
	e pPKPdf	Z	17:52:37.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	18:35:52.8	69.680N	15.200W	33.0N	4.3	3.7		SZGRF
2000/07/07	18:35:45.0	70.986N	12.900W	10G	4.5	3.8		NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:41:01.3	24.0	340.9	1.1	11	4.3		
	e L	Z	18:50:00.4			20.8	267		3.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/07	18:37: 7.5	37.970N	147.930E	41.5	5.4			SZGRF
2000/07/07	18:37:13.3	39.095N	144.401E	33N	5.1	4.1		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	18:49:34.4	82.1	34.8	0.9	24	5.4		
	e pP	Z	18:49:46.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	00:19:11.4	11.732N	86.123W	33N	4.7	4.8		NEIC

Near coast of Nicaragua

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:31:49.5	85.8	283.2					
	e L	Z	01:08:01.8			18.7	934		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	02:19:45.1			N		3.9		SZGRF

Central Mid-Atlantic Ridge

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

	GRA1	e P		Z	02:29:24.4					
		e L		Z	02:53:28.0			21.3	107	3.9

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	04:52:55.2	5.465S	102.703E	33N	5.6	5.8		NEIC

Southern Sumatera, Indonesia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	BRG	i P	- Z	05:06:09.3	93.5	94.4	1.7	72	5.8		
	GEC2	i P	- Z	05:06:08.1	93.5	94.4	1.8	85	5.9		
	RUE	e P	Z	05:06:10.2	93.7	94.2					
	WET	i P	- Z	05:06:11.9	94.0	93.7	1.6	65	5.7		
	CLL	i P	- Z	05:06:11.8	94.1	93.7	1.7	53	5.6		
	MOX	i P	- Z	05:06:15.8	94.9	92.6	2.0	89	5.8		
	FUR	e P	Z	05:06:16.2	95.0	92.6					
	GRA1	e P	Z	05:06:17.7	95.1	92.4	1.5	55	5.7		
		e PP	Z	05:10:06.2							
		e S	N	05:17:33.9							
		e SS	N	05:23:53.9							
		e L	Z	05:56:23.0			20.1	2762		5.7	
	CLZ	e P	Z	05:06:19.8	95.7	91.6	1.6	50	5.8		
	BSEG	i P	- Z	05:06:19.9	95.8	91.3	1.8	60	5.8		
	STU	e P	Z	05:06:22.8	96.4	91.0					
	TNS	i P	- Z	05:06:25.1	96.9	90.2	1.5	45	5.9		
	BFO	e P	Z	05:06:25.3	97.0	90.4	2.2	40	5.7		
	IBBN	e P	Z	05:06:26.9	97.3	89.4	2.1	100	6.1		
	BUG	e P	Z	05:06:28.2	97.7	89.2	2.0	69	6.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	06:54: 4.5	69.720N	10.280W	33.0N	4.9			SZGRF
2000/07/08	06:53:43.9	70.866N	13.375W	10G	4.6			NEIC

Jan Mayen Island region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA3	e		06:59:57.1	24.0	340.3					
	GRA1	e P	Z	06:59:01.6	24.0	340.4	1.4	51	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	13:34:42.6	34.127N	139.542E	10G	4.7			NEIC

Southeast of Honshu, Japan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	13:47:21.9	84.5	40.7			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	15:40:07.6	34.321N	139.736E	10G	4.7			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:52:45.3	84.4	40.5	1.1	17	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	16:49:10.9	34.115N	139.208E	10G	5.1	5.0		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:01:47.2	84.4	41.0	1.0	16	5.2		
	e PP	Z	17:05:03.0							
	e S	E	17:12:13.6							
	e SS	E	17:17:47.7							
	e L	Z	17:47:16.2			18.5	1256		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	17:20:11.1	34.770N	140.100E	33.0N				SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:32:39.5	84.2	40.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	17:26:21.9	33.010N	139.960E	33.0N				SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:38:57.6	85.6	41.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	18:57:47.3	34.683N	139.274E	10G	5.7	5.6		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	i P	Z	19:10:03.0	80.8	42.7					

	e pP	Z	19:10:06.8						
	e PP	Z	19:13:10.2						
BSEG	i P	Z	19:10:04.7	81.0	40.3	1.1	22	5.2	
	e pP	Z	19:10:08.3						
	e PP	Z	19:13:13.1						
BRG	i P	Z	19:10:08.5	81.9	42.7	1.9	22	5.1	
	e PP	Z	19:13:18.3						
CLL	i P	Z	19:10:08.9	82.0	42.0	1.2	26	5.3	
	e pP	Z	19:10:12.9						
	e PP	Z	19:13:18.2						
CLZ	i P	Z	19:10:12.3	82.6	40.2	1.4	21	5.2	
	e pP	Z	19:10:16.3						
MOX	i P	Z	19:10:14.7	83.0	41.0	1.4	12	5.0	
	e pP	Z	19:10:18.2						
	e PP	Z	19:13:29.0						
IBBN	i P	Z	19:10:16.1	83.3	38.3	1.2	30	5.4	
	e pP	Z	19:10:19.7						
GEC2	i P	Z	19:10:16.2	83.5	42.3	1.2	12	5.0	
	e PP	Z	19:13:30.8						
WET	i P	Z	19:10:17.8	83.6	41.8	1.4	26	5.3	
	e pP	Z	19:10:21.6						
	e PP	Z	19:13:35.5						
GRA1	i P	Z	19:10:19.6	83.9	40.6	1.4	77	5.7	
	e pP	Z	19:10:22.9						
	e PP	Z	19:13:38.2						
	e S	E	19:20:43.9						
	e SS	E	19:26:15.5						
	e L	Z	19:55:39.5			18.0	6288		6.0
BUG	i P	Z	19:10:20.1	84.1	37.9	1.3	31	5.4	
	e pP	Z	19:10:24.1						
TNS	i P	Z	19:10:22.7	84.6	38.7	1.3	21	5.1	
	e pP	Z	19:10:26.5						
	e PP	Z	19:13:40.4						
FUR	e pP	Z	19:10:28.7	85.1	40.6				
	e PP	Z	19:13:46.2						
STU	i P	Z	19:10:27.1	85.5	39.1	1.4	37	5.3	
	e pP	Z	19:10:30.6						
	e PP	Z	19:13:45.4						
BFO	i P	Z	19:10:30.3	86.2	38.5	1.5	30	5.2	
	e pP	Z	19:10:34.0						
	e PP	Z	19:13:50.0						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	19:09:57.8	34.960N	140.810E	33.0N	4.9			SZGRF
2000/07/08	19:09:51.4	34.251N	139.249E	10G	4.7			NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:22:26.8	84.3	40.9	1.0	7	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/08	20:38:47.1	34.157N	138.847E	10G	4.8			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:51:21.7	84.2	41.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/09	01:07: 3.6			N				SZGRF

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:11:03.4							
	e		01:11:14.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/09	02:18:29.7	70.875N	13.429W	10G	4.8	4.5		NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	02:23:47.1	24.1	340.4	1.0	41	4.9		
	e L	Z	02:32:46.7			21.0	617		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/09								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	14:52:33.4							
	e pPKPdf	Z	14:53:34.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/09	14:42:27.4	16.223S	177.704W	33N	5.0	5.4		NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	15:02:06.3	145.8	15.4					

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                          e L         Z  16:05:27.3                 22.0      1255        5.6


    Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2000/07/09

                   Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                   GRA1     e PKP       Z  15:25:51.5


    Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2000/07/09

                   Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                   GRA1     e PKP       Z  16:02:31.7


    Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2000/07/09   19:15:34.9                                 N                    SZGRF
 2000/07/09   19:15:26.9     34.335N   139.245E      10G    4.7   4.4          NEIC
Near east coast of eastern Honshu, Japan

                   Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                   GRA1     e P         Z  19:28:03.9    84.2   40.8


    Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2000/07/09   22:36:26.0     17.066S   178.171W     400G    4.4                NEIC
Fiji Islands region

                   Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                   GRA1     e PKP       Z  22:55:22.8   146.5   16.4


    Date     Origin Time       Lat       Long      Depth    mb    Ms    ML    Source
 2000/07/10   04:25:15.9     32.783N    92.168E      33N    5.6   4.9          NEIC
Xizang

                   Sta      Phase            Time       Dist   BAz    T[s]     A[nm]   mb   MS   ML
                   RUE      i P         Z  04:35:07.7    57.8   76.6    1.3        78   5.6
                   BRG      i P         Z  04:35:09.8    58.1   75.8    1.3        56   5.4
                   CLL      i P         Z  04:35:12.5    58.6   75.4    1.5        57   5.4
                   GEC2     i P         Z  04:35:13.6    58.8   74.4    1.4        52   5.4
                            e PP        Z  04:37:22.3
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WET	i P	Z	04:35:17.6	59.2	74.1	1.3	47	5.4	
BSEG	i P	Z	04:35:19.5	59.5	75.0	1.2	89	5.7	
MOX	i P	Z	04:35:19.8	59.6	74.1	1.4	52	5.4	
	e PP	Z	04:37:29.4						
CLZ	i P	Z	04:35:23.1	60.0	73.9	1.2	88	5.7	
	e PP	Z	04:37:46.6						
GRA1	i P	Z	04:35:24.1	60.1	73.3	1.6	131	5.7	
	e PP	Z	04:37:33.9						
	e L	Z	05:05:33.8			18.6	1024		5.0
FUR	i P	Z	04:35:26.9	60.5	72.5	1.3	153	5.7	
IBBN	i P	Z	04:35:32.3	61.4	72.3	1.4	95	5.8	
STU	i P	Z	04:35:34.1	61.6	71.5	1.5	105	5.9	
TNS	i P	Z	04:35:34.0	61.6	71.7	1.3	51	5.6	
BUG	i P	Z	04:35:36.4	62.0	71.6	1.4	77	5.7	
BFO	i P	Z	04:35:37.9	62.3	70.7	1.3	55	5.5	
WLF	i P	Z	04:35:44.9	63.2	70.0	1.3	65	5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	09:58:18.9	46.860N	145.403E	358D	6.2			NEIC

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	10:09:00.6	70.8	32.5	0.9	848	6.9		
	e pP	Z	10:10:22.2							
BSEG	e P	Z	10:09:09.0	72.3	30.5	0.9	511	6.7		
	e pP	Z	10:10:29.9							
RUE	e P	Z	10:09:09.9	72.4	32.4	0.9	606	6.7		
	e pP	Z	10:10:31.9							
CLL	e P	Z	10:09:16.8	73.7	31.7	0.6	960	7.0		
	e pP	Z	10:10:37.7							
	e PP	Z	10:12:04.7							
BRG	e P	Z	10:09:17.3	73.7	32.3	1.0	291	6.3		
	e pP	Z	10:10:37.6							
	e PP	Z	10:12:08.6							
CLZ	e P	Z	10:09:19.7	74.0	30.2	0.7	691	6.8		
	e pP	Z	10:10:41.6							
IBBN	e P	Z	10:09:21.4	74.4	28.6	0.6	834	6.9		
MOX	e P	Z	10:09:22.9	74.7	30.8	1.0	356	6.3		
	e pP	Z	10:10:44.2							
BUG	e P	Z	10:09:26.5	75.3	28.1	0.9	609	6.7		
GEC2	e P	Z	10:09:27.9	75.5	31.8	0.7	238	6.4		
	e pP	Z	10:10:48.8							
	e PP	Z	10:12:22.1							
WET	e P	Z	10:09:28.4	75.5	31.4	0.9	537	6.7		
	e pP	Z	10:10:49.8							
GRA1	e P	Z	10:09:29.1	75.6	30.4					
	e pP	Z	10:10:49.5							

	e PP	Z	10:12:23.8					
TNS	e P	Z	10:09:30.7	76.1	28.7	0.8	524	6.7
FUR	e P	Z	10:09:36.0	76.9	30.3	0.8	1003	7.0
	e pP	Z	10:10:57.5					
STU	e P	Z	10:09:36.5	77.1	29.0	0.9	668	6.8
WLF	e P	Z	10:09:37.3	77.2	27.2	1.0	111	6.0
	e pP	Z	10:10:59.9					
BFO	e P	Z	10:09:40.0	77.7	28.5	0.9	493	6.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	10:31: 0.2			N				SZGRF

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:35:53.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	10:39:38.8	4.472S	103.800E	103D	5.8			NEIC

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	i P	+ Z	10:52:44.0	93.4	92.9	1.2	81	6.0		
GEC2	i P	+ Z	10:52:44.2	93.4	92.9	1.5	80	5.9		
RUE	e P	Z	10:52:45.1	93.6	92.7	1.3	174	6.3		
WET	i P	+ Z	10:52:46.7	94.0	92.2	1.4	88	5.9		
CLL	i P	+ Z	10:52:46.3	94.0	92.2	1.3	64	5.8		
MOX	i P	+ Z	10:52:50.4	94.8	91.2	1.4	78	5.9		
FUR	e P	Z	10:52:51.3	95.0	91.1					
GRA1	i P	+ Z	10:52:52.2	95.1	90.9	1.2	84	6.0		
	e pP	Z	10:53:19.6							
	e PP	Z	10:56:38.8							
CLZ	i P	+ Z	10:52:53.7	95.6	90.1	1.6	85	6.0		
BSEG	i P	+ Z	10:52:54.3	95.7	89.8	1.2	60	6.0		
STU	e P	Z	10:52:57.7	96.4	89.5	1.5	74	6.0		
TNS	e P	Z	10:52:59.7	96.9	88.8	1.3	76	6.2		
BFO	i P	+ Z	10:52:59.8	97.0	88.9					
IBBN	e P	Z	10:53:01.4	97.2	88.0					
BUG	e P	Z	10:53:02.9	97.6	87.7					
WLF	i P	+ Z	10:53:06.3	98.4	87.1	1.6	37	5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	11:15:47.4	34.105N	139.208E	10G	4.8	4.3		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:28:24.7	84.4	41.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	11:55:13.7	45.980N	154.080E	30.9	4.9			SZGRF
2000/07/10	11:55:12.2	44.666N	149.283E	33N	4.9			NEIC

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:07:15.0	78.8	29.0			4.9		
	e pP	Z	12:07:22.7							
	e sP	Z	12:07:29.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	16:29: 3.3	34.690N	139.310E	33.0N				SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:41:30.1	83.9	40.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	16:38:17.4	32.710N	141.810E	20.4				SZGRF
2000/07/10	16:38:21.9	34.049N	139.150E	10G	4.9			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:50:58.2	84.4	41.0					
	e pP	Z	16:51:04.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/10	17:01:30.0	36.460N	140.300E	33.0N				SZGRF
2000/07/10	17:01:23.7	36.151N	140.704E	33N	4.8			NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:13:51.3	83.2	38.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

2000/07/10	17:48:13.7	9.720S	28.050E	33.8	4.8		SZGRF	
2000/07/10	17:48:27.0	7.220S	27.556E	10G	4.8	4.0	NEIC	

Zaire

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:58:25.7	58.7	160.9	1.2	20	4.8		
	e pP	Z	17:58:35.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	01:32:27.8	57.508N	154.335W	53D	6.3			NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	i P	Z	01:43:22.6	67.5	352.9	0.9	852	7.0		
BSEG	i P	Z	01:43:24.7	67.9	351.2	1.1	482	6.6		
IBBN	i P	Z	01:43:33.1	69.2	349.8	1.0	437	6.5		
	e pP	Z	01:43:48.5							
RUE	i P	Z	01:43:35.3	69.6	353.2	0.9	729	6.8		
CLZ	i P	Z	01:43:38.0	69.9	351.3	1.0	532	6.6		
BUG	i P	Z	01:43:37.5	70.0	349.6	0.9	423	6.5		
CLL	i P	Z	01:43:41.9	70.7	352.8	1.0	303	6.4		
BRG	i P	Z	01:43:45.1	71.2	353.4	1.0	370	6.5		
MOX	i P	Z	01:43:45.5	71.2	352.1	0.9	456	6.6		
TNS	i P	Z	01:43:46.2	71.3	350.3	1.0	288	6.4		
	e pP	Z	01:44:01.0							
WLF	i P	Z	01:43:48.1	71.6	349.1	1.4	221	6.1		
GRA1	i P	Z	01:43:51.2	72.1	351.9	0.9	317	6.4		
	e pP	Z	01:44:05.9							
	e S	N	01:53:17.4							
	e SS	E	01:57:47.6							
	e (SKKP)	Z	02:11:29.5							
	e L	Z	02:14:58.2			25.0	20242		6.3	
	e (PKPPKP)	Z	02:15:00.1							
WET	i P	Z	01:43:55.1	72.8	352.9	1.3	302	6.3		
STU	i P	Z	01:43:55.1	72.9	350.8	1.0	253	6.3		
GEC2	i P	Z	01:43:57.1	73.2	353.3	0.9	167	6.0		
BFO	i P	Z	01:43:57.0	73.2	350.4	1.0	187	6.1		
	e pP	Z	01:44:11.9							
FUR	i P	Z	01:44:00.0	73.7	352.0	1.0	377	6.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	01:38:44.4	57.506N	154.487W	52	5.6			NEIC

Kodiak Island, Alaska, United States, region

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

GRA1	e P	Z	01:50:07.7	72.2	352.0	1.3	69	5.6	
	e pP	Z	01:50:21.6						
	e sP	Z	01:50:27.1						
	e PP	Z	01:53:16.7						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	01:46: 2.8	43.940N	150.350E	33.0N	4.8			SZGRF
2000/07/11	01:47:07.2	47.491N	144.700E	408	4.6			NEIC

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	01:58:08.3	74.8	30.5			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	02:11:13.4	55.520N	159.480E	33.0N	4.7			SZGRF

Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	+ Z	02:22:31.3	71.5	18.3			4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	04:56:58.9	34.280N	139.489E	10G	4.8			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:09:32.1	84.3	40.7					
	e pP	Z	05:09:36.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	10:24: 6.2	33.340N	143.970E	33.0N	4.9			SZGRF
2000/07/11	10:24:13.2	34.145N	139.097E	10G	4.7			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:36:48.6	84.3	41.0			4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	11:35:11.8			N				SZGRF

North Pacific Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:48:03.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	13:10:03.1	34.360N	139.466E	10G	5.0			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:22:36.8	84.3	40.7					
	e pP	Z	13:22:41.7							
	e L	Z	13:59:25.8			19.3	607		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	16:04: 4.7	9.480N	124.980E	33.0N		4.5		SZGRF
2000/07/11	16:03:47.1	6.034N	126.244E	33N	5.5	4.7		NEIC

Mindanao, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:17:35.8	101.1	66.7					
	e		16:17:39.5							
	e L	Z	17:08:11.9			18.6	164		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	18:23:43.0	32.990N	140.660E	14.4		4.6		SZGRF
2000/07/11	18:23:51.5	34.311N	139.066E	10G	5.0	4.6		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:36:25.6	84.1	41.0					
	e pP	Z	18:36:29.8							
	e L	Z	19:13:01.9			21.0	246		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/11	19:25:43.7	33.520N	141.660E	33.0N		4.8		SZGRF
2000/07/11	19:25:44.8	34.417N	139.077E	10G	5.1	4.6		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:38:20.8	84.1	40.9					
	e L	Z	20:15:05.0			20.9	391		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	00:44:25.1	49.340N	158.870E	33.0N	5.4			SZGRF

East of Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	00:56:15.9	77.1	21.0	0.7	21	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	03:19: 3.9	32.980N	141.350E	33.0N	5.0	5.0		SZGRF
2000/07/12	03:19:03.2	34.476N	139.156E	10G	4.9			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	03:31:42.6	84.0	40.8			5.0		
	e L	Z	04:17:07.2			18.6	569		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	03:36:51.0	34.920N	140.410E	33.0N				SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:49:19.4	84.2	39.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	03:49:48.2	34.960N	142.900E	235.9	5.0			SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:01:58.2	85.2	37.9			5.0		
	e pP	Z	04:02:54.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPab)	Z	05:20:47.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	06:27:26.5	33.600N	138.980E	33.0N				SZGRF
2000/07/12	06:27:22.1	34.610N	140.020E	10G	4.5			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:39:57.6	84.3	40.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	06:37:26.3	35.310N	139.710E	33.0N		4.8		SZGRF
2000/07/12	06:37:15.8	34.136N	139.294E	10G	5.0	4.6		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:49:51.4	84.4	40.9					
	e L	Z	07:35:20.6			18.7	348		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	07:03:41.6	34.002N	139.314E	10G	4.8			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:16:17.8	84.5	41.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	13:36:59.8	23.085S	170.461E	64?	4.9	4.8		NEIC

Southeast of Loyalty Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z	13:56:38.8	148.8	39.0					
	i PKPbc	- Z	13:56:42.7							
	e PKPab	Z	13:56:53.0							
	e pPKPbc	Z	13:57:11.7							
	e pPKPab	Z	13:57:21.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	14:07:13.8	34.143N	139.099E	10G	5.0			NEIC

Southeast of Honshu, Japan

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

	GRA1	e P		Z	14:19:50.3	84.3	41.0				
		e pP		Z	14:19:54.6						
		e sP		Z	14:19:58.8						
		e L		Z	14:56:38.3			20.9	374		4.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	19:50:55.5	19.319S	176.473W	33N	5.2			NEIC

Fiji Islands region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z	20:10:42.2	149.0	14.2					
		e L	Z	21:21:51.1			20.6	269		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12	22:12:19.7	6.168N	77.768W	33N	5.3	4.5		NEIC

Near west coast of Colombia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	22:24:52.4	84.6	273.2					
		e L	Z	22:53:22.1			33.1	265		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/12								

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKP	Z	23:39:35.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/13	15:50:34.4	49.461N	155.754E	80D	5.5			NEIC

Kuril Islands, Russia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	RGN	i P	Z	16:01:49.2	71.3	24.7					
	BSEG	i P	Z	16:01:56.5	72.6	22.7	1.5	190	6.0		
	RUE	i P	Z	16:01:59.2	73.1	24.7	1.0	186	6.0		
	CLL	i P	+ Z	16:02:06.3	74.4	24.1	1.0	190	6.1		
	BRG	i P	+ Z	16:02:07.3	74.5	24.6	1.2	126	5.8		
	CLZ	i P	+ Z	16:02:08.0	74.5	22.5	1.1	258	6.2		
	IBBN	i P	Z	16:02:08.6	74.7	20.9					
	MOX	i P	Z	16:02:12.2	75.3	23.2	1.1	170	6.1		
	BUG	i P	Z	16:02:13.7	75.6	20.5	1.1	198	6.2		

GRA1	i P	+	Z	16:02:18.5	76.3	22.8	0.9	310	6.4	
	e			16:02:57.5						
	e L		Z	16:34:35.8			27.7	367		4.6
WET	i P	+	Z	16:02:18.8	76.4	23.8	1.0	223	6.2	
TNS	i P	+	Z	16:02:18.9	76.5	21.2	0.8	173	6.2	
WLF	i P		Z	16:02:25.0	77.5	19.7				
STU	i P		Z	16:02:25.5	77.6	21.5	1.1	220	6.2	
FUR	i P		Z	16:02:25.9	77.7	22.7	1.2	391	6.4	
BFO	i P	+	Z	16:02:29.0	78.3	20.9	1.0	164	6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/13	17:41:54.1	18.301S	175.610W	252D	4.9			NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	18:01:08.5	148.1	12.4					
	e PKPbc	Z	18:01:13.2							
	e PKPab	Z	18:01:21.3							
	e		18:02:18.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/13	18:55:55.9	34.018N	139.225E	33N	5.0	4.7		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:08:29.6	84.5	41.0			5.3		
	e L	Z	19:54:08.0			18.2	397		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	00:07:31.6	23.935N	121.466E	10G	5.3	5.0		NEIC

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:20:03.9	84.0	59.6			5.2		
	e pP	Z	00:20:17.2							
	e PP	Z	00:23:17.3							
	e S	E	00:30:29.0							
	e L	Z	01:02:26.3			19.4	1617		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	05:22:01.4	0.953S	16.130W	10G	5.1	4.8		NEIC

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:31:39.2	55.8	213.7					
	e		05:31:45.6							
	e		05:31:50.9							
	e PP	Z	05:33:53.1							
	e S	N	05:39:28.1							
	e L	Z	05:54:13.0			22.0	407		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	05:42:31.8	0.330N	17.630W	22.7	4.7			SZGRF
2000/07/14	05:42:25.3	0.765S	16.212W	10G	4.8			NEIC

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:52:03.0	55.7	213.9			4.7		
	e pP	Z	05:52:08.0							
	e sP	Z	05:52:13.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	06:01:09.0	70.953N	13.043W	10G	4.5	3.9		NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:06:25.7	24.0	340.8					
	e L	Z	06:15:26.0			19.4	403		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	08:22:48.7	41.370N	73.178E	33N	4.6			NEIC

Kyrgyzstan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:30:48.3	42.9	76.5			4.4		
	e		08:30:54.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	10:19:28.4	34.740N	140.820E	15.9	5.3	5.2		SZGRF
2000/07/14	10:19:28.6	34.188N	139.024E	10G	5.3	5.0		NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:32:03.3	84.2	41.1			5.3		
	e pP	Z	10:32:08.0							
	e L	Z	11:17:22.8			18.5	1000		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:40:01.1							
	e		16:40:28.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	18:28:23.6	34.120N	139.283E	10G	5.4	5.0		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:40:58.5	84.4	40.9					
	e		18:41:03.6							
	e		18:41:43.4							
	e L	Z	19:26:28.0			20.2	1091		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	19:23:22.0	35.920N	135.820E	14.8	4.9	4.6		SZGRF
2000/07/14	19:23:05.1	34.131N	138.732E	33N	4.8	4.7		NEIC

Western Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:35:35.8	84.2	41.3			4.9		
	e pP	Z	19:35:40.1							
	e L	Z	20:44:21.3			19.5	268		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	19:31:11.7	5.309S	151.425E	52D	5.3			NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	Z	19:50:06.4	124.4	50.6					
	i pPKPdf	Z	19:50:21.3							
	e L	Z	20:44:21.3			19.5	268		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	19:50: 5.9	32.420N	141.460E	33.0N	5.2			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:02:47.2	86.8	40.2	1.3	24	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	21:05:19.1	39.570N	90.180E	33.0N	4.8			SZGRF

Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:14:43.6	54.5	68.4			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/14	23:04:36.5	24.060N	121.833E	33N	4.9			NEIC

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:17:05.8	84.1	59.2					
	e		23:17:26.9							
	e L	Z	23:58:14.0			18.5	294		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	01:11:34.9	34.280N	145.550E	33.0N				SZGRF
2000/07/15	01:11:40.5	34.450N	139.390E	10G	4.6			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:24:16.2	84.2	40.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	01:30:30.4	34.364N	139.254E	10G	5.5	5.9		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	i P	Z	01:42:48.6	81.0	42.9					
BSEG	i P	Z	01:42:50.0	81.3	40.5					
BRG	i P	Z	01:42:54.7	82.1	42.8					

CLL	i P	Z	01:42:54.7	82.2	42.2				
CLZ	i P	Z	01:42:58.2	82.9	40.4				
IBBN	i P	Z	01:43:01.6	83.6	38.5				
GEC2	i P	Z	01:43:02.9	83.7	42.5	1.8	33	5.3	
WET	i P	Z	01:43:03.6	83.9	41.9				
GRA1	i P	Z	01:43:05.2	84.2	40.8	1.7	105	5.8	
	e PP	Z	01:46:24.2						
	e S	E	01:53:32.1						
	e SS	E	01:59:02.1						
	e L	Z	02:22:51.8			20.7	8486		6.1
BUG	i P	Z	01:43:05.9	84.4	38.1	1.3	48	5.6	
TNS	i P	Z	01:43:08.2	84.9	38.8	1.5	28	5.2	
FUR	i P	Z	01:43:10.9	85.3	40.8				
STU	i P	Z	01:43:12.7	85.7	39.3				
WLF	i P	Z	01:43:15.3	86.3	37.2	1.7	37	5.2	
BFO	i P	Z	01:43:16.2	86.4	38.7	1.5	34	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	02:16:25.5	34.560N	139.970E	33.0N	5.0			SZGRF
2000/07/15	02:16:19.2	34.080N	139.490E	10G	4.8			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	02:28:54.6	84.5	40.8	0.9	8	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	03:13:22.7	0.502S	19.596W	10G	5.2	4.9		NEIC

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	03:23:07.7	56.7	217.8					
	e L	Z	03:46:49.9			19.5	691		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z	03:26:30.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	03:58:09.7	54.122S	8.130E	10G	5.5	5.3		NEIC

Bouvet Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	04:16:28.5	103.8	181.9					
	e L	Z	04:58:33.5			19.5	2250		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	05:47:51.1	34.190N	144.510E	33.0N				SZGRF
2000/07/15	05:47:54.7	34.001N	139.223E	10G	4.4			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:00:30.8	84.5	41.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	06:43:24.3	15.888S	172.874W	33N	5.0	4.9		NEIC

Samoa Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc -	Z	07:03:04.4	146.0	7.1					
	e pPKPbc	Z	07:03:14.3							
	e		07:03:23.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	07:13:44.8	6.971S	128.970E	216D	5.6			NEIC

Banda Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	07:31:56.1	113.0	72.7					
	e PP	Z	07:32:53.5							
	e pPKPdf	Z	07:33:10.3							
	e (pPP)	Z	07:33:48.3							
	e		07:35:09.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPab)	Z	10:43:15.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/15	22:08: 5.9			N				SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:13:09.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	00:26:28.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	01:34:51.1	17.533S	178.931W	543D	4.4			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	01:53:31.4	146.8	17.9					
	e PKPbc	Z	01:53:34.5							
	e PKPab	Z	01:53:37.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	03:21:45.8	20.288N	121.995E	33N	6.1	6.3		NEIC

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	03:34:29.9	87.2	61.4					
	e pP	Z	03:34:39.3							
	e sP	Z	03:34:51.7							
	e PP	Z	03:38:02.6							
	e S	N	03:45:05.5							
	e SS	N	03:50:52.1							
	e PKPPKP	Z	04:00:35.2							
	e L	Z	04:16:33.6			19.1	18078		6.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	03:57:48.9	7.746S	150.803E	33N	6.2	6.4		NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	04:16:49.8	126.2	52.8					
	e pPKPdf	Z	04:17:01.8							
	e PP	Z	04:18:45.6							
	e		04:18:57.0							
	e PKKS	Z	04:30:21.0							
	e		04:30:32.9							
	e L	Z	05:12:50.2			21.3	12288		6.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	04:59:03.6							
	e		04:59:09.6							
	e		04:59:14.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	06:16: 4.9	70.160N	11.760W	33.0N	4.5			SZGRF
2000/07/16	06:15:51.1	71.065N	13.197W	10G	4.6			NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	06:21:08.9	24.2	340.9			4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	07:35: 0.7	45.920N	11.540E	10.0G				SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	07:35:52.5	3.3	136.6					
	e Sg	N	07:36:43.8							
GEC2	e Pn	Z	07:35:51.6	3.3	207.4					
	e Sg	N	07:36:43.9							
WET	e Pn	Z	07:35:53.3	3.3	196.2					
	e Sg	N	07:36:48.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	11:38:17.6	4.177S	138.843E	33N	5.5	5.4		NEIC

Irian Jaya, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	11:58:07.6	116.7	62.2					
	e PKKP	Z	12:07:36.3							
	e (SP)	Z	12:07:48.9							
	e SS	E	12:15:03.7							
	e L	Z	12:51:28.1			19.6	1905		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	14:31:41.4	69.660N	14.660W	33.0N		3.1		SZGRF

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:36:48.5	23.5	337.6					
	e L	Z	14:46:55.9			20.7	67		3.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	15:22:49.1	3.417N	98.408E	148D	4.8			NEIC

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:35:13.1	85.6	89.9	1.1	10	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:24:56.1							
	e		16:25:12.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	17:25:23.5	12.309S	166.433E	33N	5.3	5.8		NEIC

Santa Cruz Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	17:44:45.8	137.4	37.3					
	e pPKPdf	Z	17:45:00.3							
	e SKP	Z	17:48:16.6							
	e L	Z	18:36:29.7			20.8	465		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/16	22:29:15.2	49.490N	24.720W	33.0N		3.5		SZGRF
2000/07/16	22:28:51.2	49.531N	28.542W	33N	4.7	3.7		NEIC

Northern Mid-Atlantic Ridge

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	22:34:18.4	25.5	285.1					
		e L	Z	22:43:21.5			20.8	195		3.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	03:30:56.3			N				SZGRF

Luzon, Philippine Islands

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	03:43:47.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	04:55: 4.7			N				SZGRF

Jan Mayen Island region

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	05:00:09.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	05:26:09.5	34.798N	72.967E	38*	4.9			NEIC

Pakistan

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	05:34:37.8	46.6	84.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	06:51:47.9			N				SZGRF
2000/07/17	06:50:36.8	23.850N	121.190E	10G	4.7			NEIC

Myanmar

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	07:02:46.5	83.9	59.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	08:18:48.1	70.955N	13.210W	10G	5.1	4.5		NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	08:24:04.9	24.1	340.7			5.1		
	e L	Z	08:33:04.5			21.0	969		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	12:12:23.8	34.467N	26.657E	33N	4.8			NEIC

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:16:44.2	19.0	137.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	12:58:09.2	28.502N	142.769E	10G	5.1	5.0		NEIC

Bonin Islands, Japan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:11:15.3	90.8	41.1					
	e PP	Z	13:14:50.4							
	e L	Z	14:04:35.4			18.8	435		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPbc	Z	18:30:05.5							
	e PKPab	Z	18:30:15.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	22:03:25.4	71.024N	13.200W	10G	4.7			NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:08:43.7	24.1	340.8	1.0	42	4.9		
	e L	Z	22:16:32.6			27.0	206		3.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/17	22:53:46.9	36.239N	70.986E	145.0	6.1	5.9		SZGRF
2000/07/17	22:53:46.9	36.239N	70.986E	142D	6.0			NEIC

Hindu Kush, Afghanistan, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	i P	+ Z	23:01:31.9	42.7	87.2	1.5	420	5.9		
RUE	i P	+ Z	23:01:32.4	42.7	88.9	1.5	669	6.1		
GEC2	i P	+ Z	23:01:34.9	42.9	84.9					
RGN	i P	+ Z	23:01:34.8	43.0	90.7					
CLL	i P	+ Z	23:01:36.3	43.2	87.0	1.6	368	5.9		
WET	i P	+ Z	23:01:38.9	43.5	84.6					
MOX	i P	+ Z	23:01:43.8	44.1	85.3	1.7	392	5.9		
GRA1	e P	Z	23:01:47.5	44.5	84.0	1.7	641	6.3		
	e pP	Z	23:02:19.0							
	e sP	Z	23:02:33.2							
	e PP	Z	23:03:34.7							
	e ScP	Z	23:07:05.2							
	e L	Z	23:12:47.2			21.2	15314		5.9	
	e (PKPPKP)	Z	23:34:28.1							
FUR	i P	+ Z	23:01:47.8	44.6	82.5	1.5	466	6.2		
BSEG	i P	+ Z	23:01:49.2	44.7	87.7					
CLZ	i P	+ Z	23:01:49.2	44.8	85.6	1.7	655	6.3		
STU	i P	+ Z	23:01:57.9	45.9	81.8					
TNS	i P	+ Z	23:02:00.3	46.2	82.6					
IBBN	i P	+ Z	23:02:01.8	46.4	84.1					
BFO	i P	+ Z	23:02:02.6	46.5	80.8					
BUG	i P	+ Z	23:02:05.0	46.8	83.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/18	01:56:56.1	69.630N	12.550W	33.0N	4.4	3.4		SZGRF
2000/07/18	01:56:40.4	71.052N	13.301W	10G	4.5	3.3		NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:01:57.9	24.2	340.8	1.1	13	4.4		
	e S	E	02:06:14.3							
	e L	Z	02:11:07.1			21.3	141		3.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/18	07:33:19.7	6.795S	71.415E	10G	4.9			NEIC

Chagos Archipelago region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:45:12.5	76.8	117.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/18	12:22:12.0	34.174N	139.297E	10G	4.7	4.4		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:34:46.8	84.4	40.9					
	e pP	Z	12:34:50.1							
	e sP	Z	12:34:52.1							
	e		12:34:57.1							
	e L	Z	13:20:05.7			19.0	291		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/18	22:59:16.4	17.875N	120.828E	33N	5.5	5.0		NEIC

Luzon, Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:12:07.9	88.4	63.8					
	e PP	Z	23:15:36.1							
	e S	N	23:22:41.5							
	e SS	N	23:28:43.9							
	e L	Z	23:55:04.0			19.3	2317		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	01:16:52.4	20.663S	176.758W	243D	4.8			NEIC

Tonga Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	01:36:10.3	150.3	15.2					
	e PKPbc	Z	01:36:16.0							
	e PKPab	Z	01:36:22.8							
	e pPKPbc	Z	01:37:17.1							
	e PP	Z	01:39:54.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	07:11:11.8	4.527N	96.759E	33N	4.9	4.7		NEIC

Northern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:23:39.2	83.7	90.5					
	e L	Z	08:06:50.8			19.2	406		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	10:17:40.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	11:00:36.0	32.980N	141.350E	33.0N				SZGRF
2000/07/19	11:00:40.9	34.540N	139.156E	10G	5.1			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	11:13:14.6	84.0	40.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	11:06:13.2	33.170N	141.490E	33.0N	5.2			SZGRF
2000/07/19	11:06:18.8	34.628N	139.230E	10G	4.8			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	11:18:51.4	83.9	40.7	0.5	9	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	11:48:35.7	34.177N	139.123E	10G	4.7			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:01:09.9	84.3	41.0					
	e L	Z	12:46:29.5			18.0	254		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	14:27:50.6			N				SZGRF
2000/07/19	14:27:36.1	12.420N	92.690E	33N	4.6			NEIC

Andaman Islands, India, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:39:30.0	75.1	88.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	16:21:18.6	51.113N	178.936E	33N	4.7	4.3		NEIC

Rat Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:33:20.0	78.7	7.8					
	e L	Z	17:10:02.4			21.7	125		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	17:18:26.1	38.962N	142.980E	10G	5.0	5.1		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	17:30:48.1	81.7	35.9			5.5		
	e L	Z	18:07:38.8			20.6	740		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	17:32:21.9	33.400N	139.820E	33.0G	5.7	5.1		SZGRF
2000/07/19	17:32:20.1	34.126N	139.125E	10G	5.3	4.5		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	17:44:55.6	84.3	41.0	1.0	57	5.7		
	e L	Z	18:07:38.8			20.6	740		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19	21:18:15.2	32.900N	141.950E	33.0N	5.3	4.8		SZGRF
2000/07/19	21:18:20.3	34.237N	139.226E	10G	5.2	4.8		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	21:30:55.4	84.3	40.9	1.1	24	5.3		
	e PP	Z	21:34:27.6							
	e L	Z	22:15:21.0			21.4	454		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/19								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	22:16:22.1							

e (PP) Z 22:17:34.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	00:23:56.5	35.040N	140.330E	15.1		4.1		SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:36:24.1	84.0	39.7					
	e pP	Z	00:36:28.5							
	e L	Z	01:16:25.9			20.6	78		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	02:19:12.9	33.543N	139.107E	10G	4.7			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:31:49.9	84.8	41.3					
	e L	Z	03:16:59.6			18.5	232		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	03:06:59.8	32.790N	141.210E	33.0N				SZGRF
2000/07/20	03:07:03.7	33.940N	139.050E	10G	4.7			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:19:39.0	84.5	41.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	03:10:25.9	34.050N	139.420E	10G	4.8			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:23:03.8	84.5	40.9			5.1		
	e PP	Z	03:26:21.8							
	e L	Z	04:08:29.8			18.6	568		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	03:29:47.0	32.890N	141.680E	33.0N				SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:42:26.7	86.5	39.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	03:32:55.9	34.722N	139.119E	10G	4.6			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:45:27.8	83.8	40.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	06:47:20.7			N				SZGRF

Northern India

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:57:21.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	14:23:53.6	34.710N	141.260E	33.0N		4.3		SZGRF
2000/07/20	14:23:54.8	35.510N	139.110E	10G	4.8			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:36:24.6	83.1	40.3					
	e L	Z	15:13:10.8			20.9	118		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	15:22:45.7	6.720S	13.000W	28.8	4.8			SZGRF

Ascension Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:32:50.9	60.2	208.0			4.8		
	e pP	Z	15:32:58.5							
	e sP	Z	15:33:02.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	16:18:26.9			N		4.1		SZGRF

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:28:16.2							
	e PP	Z	16:31:01.0							
	e L	Z	16:52:09.5			19.6	136		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	16:37:34.9			N				SZGRF

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:46:59.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	16:51:25.0	4.640S	12.870W	31.2		4.3		SZGRF

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	17:01:16.2	58.2	208.6					
	e pP	Z	17:01:24.5							
	e sP	Z	17:01:29.1							
	e L	Z	17:25:00.5			21.1	224		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	16:55: 9.6	3.190S	13.630W	33.0N				SZGRF

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:04:52.9	57.1	210.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20	18:39:19.4	36.625N	140.961E	49D	6.0	5.3		NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	18:51:18.3	78.4	40.5	1.2	655	6.5		
RUE	e P	Z	18:51:25.5	79.8	40.5	1.4	685	6.4		
BSEG	e P	Z	18:51:26.7	80.0	38.2	1.2	445	6.4		
BRG	e P	Z	18:51:31.6	80.9	40.5	1.2	319	6.2		
CLL	e P	Z	18:51:31.6	81.0	39.8	1.1	449	6.5		
CLZ	e P	Z	18:51:35.2	81.6	38.0	1.2	414	6.4		

MOX	e P	Z	18:51:37.5	82.0	38.8	1.3	280	6.3	
IBBN	e P	Z	18:51:38.3	82.2	36.2	1.1	410	6.6	
GEC2	e P	Z	18:51:40.3	82.6	40.1	1.2	147	6.1	
WET	e P	Z	18:51:41.1	82.7	39.6	1.3	287	6.3	
GRA1	e P	Z	18:51:42.7	82.9	38.5	1.2	630	6.7	
	e pP	Z	18:51:55.2						
	e PP	Z	18:54:48.8						
	e S	E	19:01:58.3						
	e SS	E	19:07:24.3						
	e L	Z	19:32:24.0			19.1	8628	6.1	
BUG	e P	Z	18:51:42.4	83.1	35.8	1.2	213	6.2	
TNS	e P	Z	18:51:45.6	83.6	36.5	1.4	263	6.3	
FUR	e P	Z	18:51:48.6	84.1	38.4	1.1	471	6.6	
STU	e P	Z	18:51:50.1	84.5	37.0	1.1	434	6.6	
WLF	e P	Z	18:51:52.4	84.9	34.9	1.8	446	6.3	
BFO	e P	Z	18:51:53.2	85.2	36.3	1.1	377	6.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/20								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	19:10:01.3							
	e		19:10:16.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	00:16:57.3			N				SZGRF

Sea of Okhotsk

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:28:02.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	01:53:36.6	9.575N	85.300W	33N	5.9	6.0		NEIC

Off coast of Costa Rica

Sta	Phase			Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
WLF	i P	+	Z	02:06:03.3	83.6	277.3					
BUG	i P		Z	02:06:05.4	84.1	278.0					
IBBN	i P	+	Z	02:06:06.3	84.3	278.3	1.6	101	5.8		
TNS	i P	+	Z	02:06:10.1	85.0	279.0					
BFO	i P	+	Z	02:06:10.8	85.3	279.1					
BSEG	i P		Z	02:06:12.6	85.5	280.2					
STU	i P		Z	02:06:13.7	85.7	279.7	1.3	70	5.6		

CLZ	i	P	+	Z	02:06:15.0	86.0	280.4				
GRA1	i	P	+	Z	02:06:19.4	86.9	281.1	1.3	49	5.5	
	e	pP		Z	02:06:28.9						
	e	sP		Z	02:06:38.8						
	e	PP		Z	02:09:45.5						
	e	S		N	02:16:51.5						
	e	SS		E	02:22:59.3						
	e	PKKPbc		Z	02:24:11.3						
	e	L		Z	02:39:54.0			21.6	10027	6.2	
MOX	i	P	+	Z	02:06:19.5	86.9	281.4	1.3	44	5.4	
RGN	e	P		Z	02:06:20.7	87.1	282.5				
FUR	i	P		Z	02:06:20.9	87.2	281.3				
CLL	i	P	+	Z	02:06:23.1	87.7	282.4	1.2	48	5.7	
RUE	e	P		Z	02:06:24.0	87.9	283.0				
WET	i	P	+	Z	02:06:25.2	88.0	282.4	1.4	66	5.8	
BRG	i	P	+	Z	02:06:26.3	88.3	283.2	1.3	41	5.6	
GEC2	i	P	+	Z	02:06:28.1	88.6	283.0	1.6	70	5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	02:15:20.3	9.428N	85.360W	33N	5.0			NEIC

Off coast of Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i	P	Z 02:28:04.0	87.0	281.1	1.4	20	5.1		
	e	pP	Z 02:28:12.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	02:18:07.7	5.471S	105.869E	139D	5.5			NEIC

Sunda Strait, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i	P	Z 02:31:25.5	97.2	90.0	1.2	22	5.7		
	e	PP	Z 02:35:19.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	02:36:50.1			N	4.8			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e	P	Z 02:49:30.9			1.1	9	4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	05:16:37.4	35.250N	140.952E	52D	5.4			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	i P	Z	05:28:43.0	79.6	41.1	0.9	185	6.0		
RUE	i P	Z	05:28:50.2	81.0	41.2	1.2	135	5.9		
BSEG	i P	Z	05:28:51.3	81.2	38.8	1.0	95	5.9		
BRG	i P	+ Z	05:28:56.1	82.1	41.2	0.9	60	5.8		
CLL	i P	+ Z	05:28:56.1	82.2	40.5	0.9	143	6.2		
CLZ	i P	+ Z	05:28:59.9	82.8	38.7	1.1	97	6.0		
MOX	i P	+ Z	05:29:01.8	83.2	39.5	1.0	56	5.7		
IBBN	i P	Z	05:29:02.6	83.4	36.8	0.8	87	6.0		
GEC2	i P	+ Z	05:29:04.3	83.7	40.8	1.0	37	5.6		
WET	i P	+ Z	05:29:05.4	83.9	40.3	1.1	54	5.7		
GRA1	i P	+ Z	05:29:07.1	84.1	39.2	1.0	148	6.2		
	e PP	Z	05:32:20.2							
	e S	N	05:39:29.1							
	e SS	N	05:45:35.5							
	e L	Z	06:13:23.4			18.7	2177		5.6	
BUG	i P	Z	05:29:06.9	84.3	36.4	1.0	46	5.6		
TNS	i P	+ Z	05:29:10.0	84.8	37.2	1.1	60	5.6		
FUR	i P	Z	05:29:12.6	85.3	39.1	1.0	124	6.0		
STU	i P	Z	05:29:14.1	85.7	37.7	0.9	117	6.0		
WLF	i P	Z	05:29:16.6	86.1	35.5	1.4	60	5.5		
BFO	i P	+ Z	05:29:17.4	86.4	37.0	1.0	86	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	05:46:32.4	9.832N	85.497W	33N	5.0			NEIC

Off coast of Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:59:20.5	86.8	281.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	06:13:37.5	18.625N	98.815W	33N	5.4	5.1		NEIC

Guerrero, Mexico

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:26:27.1	88.1	297.0	1.2	34	5.4		
	e pP	Z	06:26:48.6							
	e S	N	06:37:18.0							
	e SS	E	06:42:51.1							
	e L	Z	07:09:07.2			19.5	921		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	06:21:14.4	25.848S	179.460E	550G	5.1			NEIC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	06:40:05.2	154.5	25.2					
	e PKPbc	Z	06:40:14.4							
	e PKPab	Z	06:40:31.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	07:38:21.9	9.409N	85.300W	33N	5.0	4.7		NEIC

Off coast of Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:51:05.5	87.0	281.0					
	e pP	Z	07:51:12.2							
	e sP	Z	07:51:16.8							
	e L	Z	08:24:22.5			21.4	338		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	07:56: 6.3	35.400N	140.780E	33.0N				SZGRF
2000/07/21	07:55:57.6	34.440N	139.050E	10G	4.9			NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:08:33.4	84.0	40.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	17:35:18.2							
	e		17:35:24.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/21	18:44:12.6			N				SZGRF

Near east coast of eastern Honshu, Japan

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

Sta	Phase		Time
GRA1	e P	Z	18:56:38.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/22	09:50:02.4	35.675N	36.036W	10G	4.7	4.8		NEIC

Northern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:57:13.3	36.7	265.9					
	e (pP)	Z	09:57:27.2							
	e S	E	10:02:59.6							
	e L	Z	10:08:53.4			19.3	699		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/22	14:48:03.4	9.423N	85.255W	33N	4.7	4.4		NEIC

Off coast of Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:00:47.2	87.0	281.0					
	e pP	Z	15:00:52.8							
	e L	Z	15:34:15.0			21.3	287		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/22								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:37:09.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/22	20:56:12.2	4.019S	102.454E	69D	5.8			NEIC

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	i P	Z	21:09:15.7	92.2	93.7	0.9	37	5.7		
GEC2	i P	Z	21:09:15.7	92.2	93.6	1.3	54	5.7		
RUE	i P	Z	21:09:16.3	92.4	93.5	1.1	65	5.9		
WET	i P	Z	21:09:17.9	92.8	93.0	1.2	46	5.8		
CLL	i P	Z	21:09:17.9	92.8	92.9	1.3	34	5.6		
MOX	i P	Z	21:09:22.1	93.6	91.9	1.3	36	5.5		
FUR	i P	Z	21:09:22.4	93.8	91.8	1.2	40	5.6		
GRA1	i P	Z	21:09:23.0	93.9	91.7	1.1	46	5.7		
	e sP	Z	21:09:42.4							

	e PP	Z	21:12:55.2						
	e L	Z	21:59:42.8			22.0	410		4.8
CLZ	i P	Z	21:09:25.6	94.4	90.9	1.0	24	5.5	
BSEG	i P	Z	21:09:26.1	94.5	90.6	1.2	31	5.5	
STU	i P	Z	21:09:28.9	95.2	90.2	1.3	30	5.6	
TNS	i P	Z	21:09:31.1	95.7	89.5	0.9	29	5.8	
BFO	i P	Z	21:09:31.7	95.7	89.6	1.9	62	5.8	
IBBN	i P	Z	21:09:33.0	96.1	88.7	1.0	26	5.7	
BUG	e P	Z	21:09:34.0	96.4	88.5				
WLF	i P	Z	21:09:37.9	97.1	87.8	1.5	20	5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/22	22:57: 8.7	1.100S	67.100E	46.9		4.0		SZGRF

Carlsberg Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:08:15.1	69.6	118.0					
	e pP	Z	23:08:27.7							
	e sP	Z	23:08:35.1							
	e L	Z	23:43:24.1			21.0	88		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	01:33:16.4	34.230N	141.870E	33.0N				SZGRF
2000/07/23	01:33:15.1	34.173N	139.226E	10G	4.6			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:45:50.7	84.3	40.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	02:10:55.6	33.940N	141.240E	32.5		4.2		SZGRF
2000/07/23	02:10:51.0	34.124N	139.070E	10G	4.6			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:23:30.0	84.3	41.1					
	e pP	Z	02:23:39.4							
	e L	Z	03:08:54.4			20.3	93		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	03:02:13.7	35.680N	139.300E	33.0N				SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:14:36.3	83.1	40.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	03:15:08.3	34.238N	139.242E	10G	5.1	4.8		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:27:44.9	84.3	40.9	1.0	17	5.2		
	e pP	Z	03:27:52.5							
	e sP	Z	03:27:57.4							
	e L	Z	04:04:29.6			21.3	446		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	03:56:11.1	32.450N	141.020E	460.4	5.0			SZGRF
2000/07/23	03:56:18.4	34.949N	139.447E	10G	4.6			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:08:51.5	83.8	40.4			5.0		
	e pP	Z	04:10:34.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	10:14:09.9	19.259S	173.460W	54D	4.9	4.7		NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA3	e PKPdf	Z	10:33:55.3	149.3	8.9					
	e PKPbc	Z	10:33:59.6							
	e PKPab	Z	10:34:04.1							
	e pPKPdf	Z	10:34:08.9							
	e pPKPbc	Z	10:34:13.1							
	e pPKPab	Z	10:34:17.5							
GRA1	e L	E	11:40:33.4	149.3	8.7	22.0	98		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	15:49:02.7	23.544S	179.100E	500G	4.6			NEIC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	16:07:53.3	152.2	24.4					
	e PKPbc	Z	16:08:00.7							
	e PKPab	Z	16:08:13.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	17:13:33.9	34.159N	139.177E	10G	4.9	4.8		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	17:26:09.3	84.3	41.0					
	e L	Z	18:11:38.6			19.6	375		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	19:00:08.6	34.323N	139.303E	10G	4.8	4.6		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:12:47.0	84.2	40.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	19:04:14.0	34.331N	139.288E	10G	4.9			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:16:48.1	84.2	40.8					
	e pP	Z	19:16:51.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	19:11:20.8	32.920N	140.970E	33.0N				SZGRF
2000/07/23	19:11:21.0	34.010N	139.120E	10G	4.6			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:23:59.0	84.4	41.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	19:13:37.7	35.620N	140.340E	15.1	4.5			SZGRF
2000/07/23	19:13:28.4	34.570N	139.510E	10G	4.4			NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:26:02.9	84.1	40.5	0.8	2	4.5		
	e pP	Z	19:26:07.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	20:07:23.0	35.420N	139.350E	33.0N				SZGRF
2000/07/23	20:07:12.9	34.224N	139.303E	10G	4.8			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:19:46.8	84.3	40.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	20:53:40.9	33.500N	140.020E	33.0N	4.9			SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:06:14.6	85.2	40.7	1.4	15	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	21:12:25.2	36.670N	142.000E	33.0N				SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:24:49.1	83.3	37.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	21:26:56.1	35.290N	140.850E	22.6	5.5	5.2		SZGRF
2000/07/23	21:26:47.6	34.143N	139.283E	10G	5.1	4.8		NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:39:23.7	84.4	40.9	0.9	32	5.5		
	e pP	Z	21:39:27.7							
	e sP	Z	21:39:36.4							
	e PP	Z	21:42:42.6							
	e L	Z	22:24:53.1			18.7	856		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:49:05.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	21:52:45.8	34.531N	139.099E	10G	5.5	5.3		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	i P	Z	22:04:55.5	79.5	42.8	1.1	46	5.3		
BSEG	i P	- Z	22:05:04.2	81.1	40.5	1.2	41	5.4		
BRG	i P	Z	22:05:08.4	81.9	42.9	1.4	26	5.3		
CLL	i P	- Z	22:05:08.6	82.0	42.2	1.1	33	5.5		
CLZ	i P	- Z	22:05:12.7	82.7	40.4	1.2	34	5.5		
MOX	i P	Z	22:05:14.4	83.1	41.2	1.4	31	5.4		
IBBN	i P	Z	22:05:15.3	83.3	38.5	1.4	46	5.5		
GEC2	i P	- Z	22:05:16.5	83.5	42.5	1.1	16	5.1		
WET	i P	- Z	22:05:17.4	83.7	42.0	1.4	29	5.3		
GRA1	i P	- Z	22:05:19.6	84.0	40.8	1.2	63	5.7		
	e PP	Z	22:08:34.7							
	e L	Z	22:50:50.0			18.1	2043		5.6	
BUG	i P	Z	22:05:19.6	84.2	38.1	1.3	40	5.5		
TNS	i P	Z	22:05:22.4	84.7	38.9	1.2	26	5.2		
FUR	i P	Z	22:05:24.7	85.1	40.8	1.0	34	5.4		
STU	i P	Z	22:05:26.4	85.5	39.3	1.1	26	5.3		
WLF	i P	Z	22:05:29.1	86.1	37.2	1.4	34	5.3		
BFO	i P	Z	22:05:29.6	86.2	38.7	1.6	44	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	22:22:27.8	35.780N	139.790E	33.0N				SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:34:51.1	83.2	39.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/23	23:06: 7.9	36.100N	141.980E	19.4	4.4			SZGRF

Near east coast of eastern Honshu, Japan

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

GRA1	e P	Z	23:18:34.3	83.8	38.0	0.7	2	4.4	
	e pP	Z	23:18:39.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	00:03:29.7			N	4.3			SZGRF
2000/07/24	00:04:03.5	36.569N	31.467E	32	4.2			NEIC

Eastern Mediterranean Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:08:25.4	19.6	124.2			4.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	00:39: 5.3	34.720N	142.930E	33.0N		4.2		SZGRF
2000/07/24	00:38:58.8	33.960N	139.290E	10G	4.3	4.2		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:51:39.8	84.5	41.0					
	e L	Z	01:36:56.1			19.0	99		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	08:44:18.6	35.170N	140.100E	17.9				SZGRF
2000/07/24	08:44:14.1	34.243N	139.175E	10G	4.9	4.1		NEIC

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:56:49.9	84.2	40.9					
	e pP	Z	08:56:54.1							
	e sP	Z	08:56:58.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	09:03:57.5	34.850N	142.560E	22.8		5.0		SZGRF
2000/07/24	09:03:54.4	34.077N	139.354E	10G	5.1	4.5		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:16:30.6	84.5	40.9					
	e pP	Z	09:16:34.8							
	e sP	Z	09:16:43.2							
	e L	Z	09:58:44.2			18.3	520		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	09:37:56.7	23.367S	177.411W	176D	5.0			NEIC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	09:57:34.1	152.8	17.6					
	e PKPbc	Z	09:57:41.0							
	e PKPab	Z	09:57:46.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	12:17:25.4	5.592S	102.836E	33N	5.6	5.2		NEIC

Southern Sumatera, Indonesia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:30:54.5	95.3	92.4					
	e L	Z	13:27:41.2			19.6	454		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	13:38:22.5				5.1	4.2		SZGRF
2000/07/24	13:38:22.7	10.117N	85.215W	33N	5.0			NEIC

Costa Rica

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:51:03.2	86.4	281.4	1.1	17	5.1		
	e pP	Z	13:51:11.4							
	e L	Z	14:32:35.9			21.5	109		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/24	22:10:35.9	24.894N	122.465E	128D	5.1			NEIC

Taiwan region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:22:53.9	83.8	58.3	1.5	24	5.2		
	e pP	Z	22:23:27.2							
	e sP	Z	22:23:41.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	03:14:28.7	53.558S	3.202W	10G	5.6	5.7		NEIC

Southern Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	03:32:52.1	104.0	188.8					
	e SP	Z	03:41:56.2							
	e SS	N	03:47:33.6							
	e L	Z	04:14:03.2			21.9	1234		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	07:12:50.5	34.291N	139.246E	10G	5.1	4.4		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	07:25:26.4	84.2	40.9	1.1	29	5.4		
	e pP	Z	07:25:30.6							
	e L	Z	08:10:55.9			19.1	243		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	08:10:19.6	33.830N	140.070E	22.4	5.4	4.4		SZGRF
2000/07/25	08:10:16.1	34.405N	139.224E	10G	4.9			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	08:22:52.1	84.1	40.8	0.9	23	5.4		
	e pP	Z	08:22:55.6							
	e sP	Z	08:23:05.4							
	e L	Z	09:07:05.0			19.4	156		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:24:30.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	18:12:43.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	18:17: 5.5			N				SZGRF

Southern Iran

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:24:12.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	18:36:44.9	34.337N	139.239E	10G	5.2	4.6		NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	18:49:20.0	84.2	40.8	1.0	25	5.4		
	e pP	Z	18:49:25.1							
	e L	Z	19:34:59.8			18.4	789		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	18:57: 3.7	33.280N	141.970E	15.8				SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:09:42.3	86.2	39.4					
	e pP	Z	19:09:46.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/25	19:33:56.9	37.220N	21.950E	10G	4.7			NEIC

Southern Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pn	Z	19:37:22.9	14.7	144.2					
	e L	Z	19:44:08.6			18.2	2121		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/26	05:37:41.6	0.575N	26.084W	10G	4.7	4.5		NEIC

Central Mid-Atlantic Ridge

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	05:47:39.5	58.5	225.3					
	e S	E	05:55:43.7							
	e L	Z	06:12:43.2			21.5	508		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/26	08:24:42.6	29.634N	142.023E	33N	4.8			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:37:38.8	89.4	41.1					
	e L	Z	09:25:03.1			19.5	157		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/26	10:09:50.7	34.235N	139.158E	10G	5.0	4.6		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:22:25.7	84.2	40.9					
	e pP	Z	10:22:29.6							
	e sP	Z	10:22:33.1							
	e PP	Z	10:25:42.4							
	e L	Z	11:07:35.5			19.3	338		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/26	20:39:47.9	17.699S	178.789W	500G	4.5			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	20:58:34.4	147.0	17.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/27	01:49:53.4	34.306N	139.340E	10G	5.3	5.2		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	02:02:05.1	79.8	42.8	1.3	67	5.4		
BSEG	e P	Z	02:02:13.0	81.4	40.5	1.5	55	5.5		
BRG	e P	Z	02:02:18.6	82.2	42.8	1.9	87	5.7		
CLL	e P	Z	02:02:18.8	82.3	42.2	1.7	78	5.7		
CLZ	e P	Z	02:02:22.2	83.0	40.3	1.4	53	5.6		
MOX	e P	Z	02:02:24.5	83.4	41.1	1.5	42	5.4		
IBBN	e P	Z	02:02:26.3	83.6	38.4	1.2	39	5.5		
GEC2	e P	Z	02:02:26.6	83.8	42.5	1.1	17	5.2		
WET	e P	Z	02:02:27.1	84.0	41.9	1.6	44	5.4		
GRA1	e P	Z	02:02:28.7	84.3	40.8	1.4	94	5.8		

		e S	N	02:12:54.6						
		e L	Z	02:39:16.0			20.9	1483		5.4
	BUG	e P	Z	02:02:29.4	84.5	38.0	1.2	39	5.5	
	TNS	e P	Z	02:02:32.6	85.0	38.8	1.6	43	5.3	
	FUR	e P	Z	02:02:34.5	85.4	40.7	0.9	51	5.7	
	STU	e P	Z	02:02:36.2	85.8	39.3	1.4	54	5.5	
	WLF	e P	Z	02:02:39.2	86.3	37.1	1.5	37	5.3	
	BFO	e P	Z	02:02:40.5	86.5	38.6	1.3	29	5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/27	04:28:51.5	13.749N	91.709W	33N	5.1	4.5		NEIC

Near coast of Guatemala

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	04:41:39.7	87.7	288.6	0.7	11	5.3		
		e L	Z	05:17:09.1			21.3	242		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/27	16:31:17.2	44.334N	148.324E	33N	4.6			NEIC

East of Kuril Islands, Russia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	16:43:20.7	78.8	29.8	1.0	16	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	00:00:21.1			N				SZGRF
2000/07/28	00:00:09.0	51.430N	160.130E	33N	4.7			NEIC

Off east coast of Kamchatka Peninsula, Russia

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e P	Z	00:11:55.0	75.5	19.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	04:28:08.0	20.656S	174.092W	33N	5.1	4.6		NEIC

Tonga Islands

	Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKPdf	Z	04:47:59.7	150.7	10.2					
		e PKPbc	Z	04:48:07.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	04:38:54.0	33.580N	140.800E	13.6				SZGRF
2000/07/28	04:38:55.8	33.827N	138.993E	10G	4.8	4.2		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:51:31.8	84.5	41.3					
	e pP	Z	04:51:35.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	05:22:23.9	36.551N	71.023E	226D	5.0			NEIC

Afghanistan-Tajikistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	05:30:14.8	44.3	83.7					
	e pP	Z	05:31:02.6							
	e sP	Z	05:31:29.5							
	e PP	Z	05:31:59.6							
	e ScP	Z	05:35:21.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	11:32:24.3							
	e PKPbc	Z	11:32:33.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	12:58:04.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	13:01:26.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	13:05:58.5	34.229N	139.370E	10G	4.9			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:18:36.8	84.3	40.8					
	e L	Z	14:01:34.9			20.2	1068		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	13:32:44.0	34.298N	139.217E	10G	4.9			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:45:18.3	84.2	40.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	16:48:02.5	34.165N	139.061E	10G	4.6			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:00:38.0	84.3	41.1	1.2	13	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	18:57:23.3	46.070N	15.760E	10.0G			3.7	SZGRF
2000/07/28	18:57:21.0	45.970N	15.600E	10G				NEIC

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	18:58:12.0	3.1	155.2					3.2
	e Sg	N	18:59:00.5							
WET	e Pn	Z	18:58:18.1	3.7	148.9					3.6
	e Sg	N	18:59:18.9							
FUR	e Pg	Z	18:58:29.8	3.7	125.1					4.0
	e Sg	E	18:59:19.4							
GRA1	e Pn	Z	18:58:35.8	4.7	140.1					3.8
	e Sg	N	18:59:54.9							
BRG	e Sg	N	19:00:00.6	5.0	166.7					3.6
MOX	e Pn	Z	18:58:42.0	5.4	148.9					3.7
	e Sg	E	19:00:11.9							
BFO	e Pn	Z	18:58:44.3	5.5	112.8					3.6
	e Sg	N	19:00:20.5							
CLL	e Pn	Z	18:58:46.6	5.6	161.2					4.0

	e Sg	N	19:00:19.6				
TNS	e Pn	Z	18:58:57.5	6.4	129.0		
CLZ	e Sg	N	19:00:59.7	6.8	147.7		4.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	19:09:48.5	50.090N	17.870E	10.0G			2.8	SZGRF

Poland

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pn	Z	19:10:29.2	2.6	105.9					2.4
	e Sg	N	19:11:10.8							
GEC2	e Pn	Z	19:10:36.0	3.0	63.7					2.8
	e Sg	N	19:11:24.7							
CLL	e Pn	Z	19:10:42.4	3.3	109.7					2.9
	e Sg	N	19:11:34.3							
WET	e Sg	N	19:11:33.9	3.4	71.8					2.9
MOX	e Sg	N	19:11:58.5	4.0	95.5					3.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	19:46:56.9			N				SZGRF

Near south coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	19:59:19.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	20:16:45.9			N				SZGRF

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	20:29:21.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	20:28:12.9	23.432N	120.892E	33N	5.5	5.5		NEIC

Taiwan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	20:40:42.1	84.1	60.3					
	e pP	Z	20:40:46.7							
	e PP	Z	20:43:57.6							
	e S	N	20:51:12.7							

	e SS	N	20:56:38.8					
	e L	Z	21:23:05.6			18.5	6394	6.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/28	22:18: 0.5	33.970N	139.410E	38.0	5.1	4.5		SZGRF
2000/07/28	22:17:56.0	34.178N	139.091E	10G	4.7	4.5		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:30:30.8	84.3	41.0	1.0	14	5.1		
	e pP	Z	22:30:38.7							
	e sP	Z	22:30:50.7							
	e L	Z	23:07:19.6			19.2	182			4.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29	07:14:20.9	45.830N	10.140E	10.0G			3.2	SZGRF
2000/07/29	07:14:20.1	45.830N	9.980E	10G				NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	07:15:05.4	2.7	155.2					3.1
	e Sn	N	07:15:37.5							
WET	e Pn	Z	07:15:20.0	3.8	211.7					3.3
	e Sg	N	07:16:21.4							
GEC2	e Pn	Z	07:15:20.3	3.9	221.3					2.9
	e Sg	N	07:16:23.0							
GRA1	e Sn	E	07:16:07.7	4.0	192.7					3.5
	e Sg	N	07:16:24.4							
TNS	e Pn	Z	07:15:29.5	4.5	166.3					3.4
	e Sg	N	07:16:46.1							
WLF	e Sg	N	07:16:49.7	4.6	144.7					3.2
MOX	e Pn	Z	07:15:33.5	4.9	193.4					3.1
	e Sn	N	07:16:30.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	09:16:28.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29	09:54:42.5	53.041N	157.579E	168D	5.1			NEIC

Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z	10:05:59.1	73.4	20.3	1.6	48	5.3		
	e pP	Z	10:06:41.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29	12:09:55.4	7.298N	79.539W	10G	5.0	4.9		NEIC

South of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	12:22:32.9	84.9	275.3	1.9	38	5.3		
	e L	Z	12:56:40.0			20.6	1484		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29	15:16:18.2	34.184N	139.171E	10G	4.9	4.3		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	15:28:53.5	84.3	41.0	1.6	44	5.4		
	e L	Z	16:14:32.6			18.8	218		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29	15:54:17.5	51.172N	179.333W	55	5.2	4.5		NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	16:06:17.9	78.7	6.7					
	e L	Z	16:49:05.0			18.2	158		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/29	22:30:13.0	70.824N	13.408W	10G	4.7	3.7		NEIC

Jan Mayen Island region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	22:35:30.1	24.0	340.3			5.1		
	e L	Z	22:44:29.5			21.0	251		3.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	00:18:00.5	33.986N	139.361E	10G	5.5	5.4		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	00:30:14.9	80.1	42.9	1.5	196	5.9		
RUE	e P	Z	00:30:21.7	81.4	43.0	1.2	71	5.7		
BSEG	e P	Z	00:30:23.0	81.7	40.6	1.2	55	5.5		
BRG	e P	Z	00:30:27.1	82.5	43.0					
CLL	e P	Z	00:30:27.2	82.6	42.3	1.2	57	5.7		
CLZ	e P	Z	00:30:30.7	83.3	40.5	1.3	68	5.7		
MOX	e P	Z	00:30:32.9	83.7	41.3					
IBBN	e P	Z	00:30:34.3	83.9	38.6	1.1	54	5.7		
GEC2	e P	Z	00:30:35.0	84.1	42.6	1.3	32	5.4		
WET	e P	Z	00:30:36.1	84.2	42.1	1.4	48	5.5		
GRA1	i P	- Z	00:30:38.0	84.5	40.9	1.3	116	6.0		
	e PP	Z	00:33:56.9							
	e L	Z	01:16:08.2			18.0	3679		5.8	
BUG	e P	Z	00:30:38.7	84.8	38.2	1.3	68	5.7		
TNS	e P	Z	00:30:40.9	85.3	39.0	1.2	40	5.4		
FUR	e P	Z	00:30:42.8	85.7	40.9	1.3	82	5.7		
STU	e P	Z	00:30:44.8	86.1	39.4	1.2	54	5.6		
WLF	e P	Z	00:30:47.8	86.6	37.3	1.4	47	5.4		
BFO	e P	Z	00:30:48.2	86.8	38.8	1.5	60	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	01:14: 0.5	2.630N	34.260W	14.6		4.8		SZGRF
2000/07/30	01:14:23.2	7.146N	34.093W	10G	4.6	4.7		NEIC

North Atlantic Ocean

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:24:09.6	56.9	237.4					
	e pP	Z	01:24:13.7							
	e L	Z	01:41:43.8			19.0	618		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	06:03:31.6	10.874S	165.899E	33N	5.1	5.2		NEIC

Santa Cruz Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	06:22:49.7	135.9	37.1					
	e PP	Z	06:25:44.0							
	e L	Z	07:26:17.2			20.6	550		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	07:49: 2.1			N				SZGRF
2000/07/30	07:49:30.8	30.270N	128.256E	314*	4.5			NEIC

Off east coast of southeastern China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:01:21.5	82.5	50.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	08:37: 1.3	33.740N	139.570E	33.0N				SZGRF
2000/07/30	08:36:52.6	34.060N	139.410E	10G	4.4			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:49:33.0	84.5	40.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	12:25:46.0	33.952N	139.435E	10G	6.0	6.5		NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RUE	i P	+ Z	12:38:05.6	81.5	43.0	1.8	481	6.3		
BSEG	i P	+ Z	12:38:07.3	81.8	40.6	1.2	187	6.1		
BRG	i P	+ Z	12:38:11.6	82.6	42.9	1.7	379	6.3		
CLL	i P	+ Z	12:38:11.8	82.6	42.3	1.4	274	6.3		
CLZ	i P	+ Z	12:38:15.4	83.3	40.4	1.7	457	6.4		
MOX	i P	+ Z	12:38:17.6	83.7	41.2	1.8	368	6.3		
IBBN	i P	+ Z	12:38:18.7	84.0	38.5	1.2	232	6.3		
GEC2	i P	+ Z	12:38:19.7	84.2	42.6	1.3	112	5.9		
WET	i P	+ Z	12:38:20.6	84.3	42.0	1.9	395	6.3		
GRA1	i P	+ Z	12:38:22.6	84.6	40.9	1.3	536	6.6		
	e PP	Z	12:41:56.5							
	e S	E	12:48:52.5							
	e SS	E	12:54:16.3							
	e L	Z	13:20:41.1			18.8	44700		6.9	
BUG	i P	+ Z	12:38:22.8	84.9	38.1	1.2	142	6.1		
TNS	i P	+ Z	12:38:25.6	85.3	38.9	1.9	294	6.1		
FUR	i P	+ Z	12:38:27.7	85.7	40.8	1.6	449	6.4		
STU	i P	+ Z	12:38:29.6	86.2	39.4	1.3	197	6.1		
WLF	i P	+ Z	12:38:32.6	86.7	37.2	1.4	146	5.9		
BFO	i P	+ Z	12:38:32.4	86.9	38.8	1.2	140	6.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	12:48:55.5	33.971N	139.278E	10G	5.6			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	13:01:32.2	84.5	41.0	0.9	24	5.4		
	e pP	Z	13:01:37.2							
	e PP	Z	13:04:51.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	13:16:08.3	34.132N	139.217E	10G	5.0			NEIC

Southeast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:28:44.9	84.4	41.0					
	e pP	Z	13:28:48.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/30	23:53:25.4	35.110N	142.110E	33.0N				SZGRF

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:05:56.5	84.7	38.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	01:29:46.4	7.493N	79.579W	10G	4.7	4.7		NEIC

South of Panama

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	01:42:23.7	84.8	275.5					
	e L	Z	02:16:07.3			20.4	378		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	02:36: 6.7	46.100N	11.850E	10.0G			2.8	SZGRF
2000/07/31	02:35:58.3	45.638N	11.981E	10G				NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z	02:36:43.8	2.6	168.9					2.7
	e Sg	E	02:37:13.6							
GEC2	e Pn	Z	02:36:53.9	3.4	200.6					2.4

	e Sg	N	02:37:41.9					
WET	e Sg	E	02:37:44.4	3.6	190.2			2.6
BFO	e Sn	N	02:37:35.1	3.7	135.9			
GRA1	e Pg	Z	02:37:12.7	4.1	172.5			3.0
	e Sg	E	02:38:02.1					
MOX	e Sn	N	02:38:05.8	5.0	177.1			
	e Sg	E	02:38:32.0					
CLL	e Sg	E	02:38:55.7	5.7	187.2			3.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	04:37:06.9	39.638N	143.576E	33N	5.1	5.3		NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	04:49:23.7	81.3	35.1	1.2	38	5.4		
	e pP	Z	04:49:34.1							
	e S	E	04:59:38.9							
	e SS	N	05:04:49.3							
	e L	Z	05:30:32.1			18.4	1265		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	11:59:34.4	14.449S	167.318E	179D	4.9			NEIC

Vanuatu Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	12:18:44.9	139.7	37.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	13:34:01.9	40.590N	29.608W	10G	4.7	3.9		NEIC

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:40:10.2	29.8	268.0					
	e pP	Z	13:40:15.1							
	e L	Z	13:50:52.3			18.0	253		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	13:56:19.3	40.542N	29.674W	10G	4.8	4.5		NEIC

Azores Islands region

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

GRA1	e P	Z	14:02:28.3	29.9	268.0		
	e pP	Z	14:02:32.4				

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	13:58:12.5	40.628N	29.445W	10G	5.3	4.8		NEIC

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:04:21.7	29.7	267.9					
	e L	Z	14:14:53.9			18.2	2165		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	14:05:40.6	40.731N	29.531W	10G	4.9	4.2		NEIC

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:11:49.1	29.7	268.2					
	e pP	Z	14:11:53.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	14:23:37.3	40.656N	29.456W	10G	5.0	4.6		NEIC

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	14:29:45.6	29.7	268.0			5.0		
	e PP	Z	14:31:00.7							
	e L	Z	14:40:18.4			18.4	1790		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	15:02:46.5	40.703N	29.583W	10G	4.6	3.9		NEIC

Azores Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	15:08:55.0	29.7	268.2					
	e L	Z	15:19:26.8			18.3	276		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	17:02:40.1	36.996N	71.987E	174D	4.3			NEIC

Afghanistan-Tajikistan border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:10:38.9	44.7	82.5					
	e pP	Z	17:11:16.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	22:44:34.0	16.721S	174.523E	33N	5.8	5.6		NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	Z	23:04:07.6	144.4	28.2					
	e PP	Z	23:07:23.9							
	e L	Z	00:07:04.7			21.8	809		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/07/31	23:01:52.8	29.285S	176.336W	33N	5.6	5.9		NEIC

Kermadec Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	23:21:48.6	158.8	18.5					
	e pPKPdf	Z	23:22:02.5							
	e PKPab	Z	23:22:24.8							
	e pPKPab	Z	23:22:39.1							
	e PP	Z	23:26:02.1							

Format description
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(K. Klinge, A. Schick)

In general all regional and teleseismic events clearly recorded with GRF-Array stations and stronger events recorded with stations of the German Regional Seismological Network (GRSN) are included in this bulletin. Additional to primary phases we intent to report secondary phases with common interest from stronger events (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