

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

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

JANUARY 2001 UPDATED 04.Apr.2001

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

(Format description at the end of the bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/01	03:37:37.3	24.148S	179.659W	474D	4.7			NEIC
South of Fiji Islands								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e PKPdf	Z 03:56:33.1	153.1	22.4			
		i PKPbc	- Z 03:56:41.0					
		e PKPab	Z 03:56:55.8					
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/01								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e (PKPab)	Z 04:01:24.5					
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/01	05:14:37.1			N	4.0			SZGRF
Northern and central Iran								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e P	Z 05:21:33.6					4.0
	BEAM		05:21:33.6			1.1	3	
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/01	06:57:04.6	6.970N	126.613E	33N	6.5	7.3		NEIC
Mindanao, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e Pdiff	Z 07:10:38.6	97.4	66.8					
BRG	e Pdiff	Z 07:10:41.1	98.5	67.8					
CLL	e Pdiff	Z 07:10:42.4			1.5	404			
	e PP	Z 07:14:49.8			25.1	20212			
	e PPP	Z 07:17:14.2							
	e SKSac	E 07:21:31.3							
	e Sdiff	N 07:22:07.7							
	e PS	Z 07:23:45.9							
	e SS	N 07:29:01.8							
	e L	Z 08:01:17.1			20.0	118249		7.4	
BSEG	e Pdiff	Z 07:10:44.3	99.3	64.4					
GEC2	e Pdiff	Z 07:10:45.6	99.4	67.9					
WET	e Pdiff	Z 07:10:47.5	99.8	67.2					
MOX	e Pdiff	Z 07:10:47.5	99.9	66.0					
CLZ	e Pdiff	Z 07:10:48.7	100.1	64.7					
GRA1	e Pdiff	Z 07:10:50.3	100.5	65.8					
	e	07:10:58.7							
	e	07:13:21.3							
	e PP	Z 07:15:01.5							
	e L	Z 08:09:57.9			21.8	42238			
GRFO	e Pdiff	Z 07:10:51.9	100.5	65.8					
	e L	Z 08:09:57.5			21.8	45848			
FUR	e Pdiff	Z 07:10:52.4	101.1	66.1					
IBBN	e Pdiff	Z 07:10:54.1	101.4	62.5					
TNS	e Pdiff	Z 07:10:56.7	101.9	63.4					
BUG	e Pdiff	Z 07:10:58.3	102.0	62.2					
STU	e Pdiff	Z 07:10:58.6	102.1	64.3					
BFO	e Pdiff	Z 07:11:00.6	102.8	63.7					
WLF	e Pdiff	Z 07:11:04.0	103.5	61.6					

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/01

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (Pdiff)	Z 09:08:20.6							

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/01

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:01:05.2							

GRA1 e Pdiff Z 23:13:17.0
e pPdiff Z 23:13:31.3

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/02 01:17:08.4 54.530N 161.243E 90* 4.3
Off east coast of Kamchatka Peninsula, Russia

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 01:28:30.8 72.8 17.7 4.4

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/02

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 04:16:00.9

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/02

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 06:08:03.8

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/02 07:30:03.7 6.747N 126.781E 33N 5.8 6.2
Mindanao, Philippine Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
CLL i Pdiff + Z 07:43:43.6 1.0 40
e 07:44:01.8
e PP Z 07:47:53.2
e SKSac E 07:54:25.5
e Sdiff N 07:55:15.9
e PS Z 07:56:38.1
e SS E 08:01:59.4
e SSS E 08:06:15.8
e L Z 08:34:42.4 20.0 14186 6.5
GRA1 i Pdiff + Z 07:43:52.1 100.8 65.8
e PP Z 07:48:00.3
e L Z 08:34:16.3 21.7 7961 6.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2001/01/02											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e PKP	Z 09:22:34.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2001/01/02	10:53:13.7	36.230N	142.600E	33.0N	5.1			SZGRF			
2001/01/02	10:53:23.5	37.271N	138.421E	33N	4.8			NEIC			
Off east coast of Honshu, Japan											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	i P	+ Z 11:05:40.8	81.3	39.9			5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2001/01/02	13:03:36.1	14.900S	167.214E	97D	5.0			NEIC			
Vanuatu Islands											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	e PKPdf	Z 13:22:49.4	140.1	37.8					
			e (pPKPdf)	Z 13:22:56.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2001/01/02	16:22:45.5	37.000N	68.770E	23.8	4.8			SZGRF			
2001/01/02	16:22:37.6	36.257N	69.082E	33N	4.9	4.0		NEIC			
Hindu Kush, Afghanistan, region											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
		GRA1	i P	+ Z 16:30:40.0	43.2	85.4			4.8		
			e pP	Z 16:30:46.3							
			e sP	Z 16:30:49.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source			
2001/01/02	18:30:12.5	55.218N	161.823E	77*	4.5			NEIC			
Off east coast of Kamchatka Peninsula, Russia											
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML

GRA1	i P	+ Z	18:41:34.2	72.3	17.1	5.0
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/02	19:37:20.3	1.010N	29.370W	33.0N	5.3	4.7		SZGRF
2001/01/02	19:37:35.7	1.342N	27.780W	10G	5.0	4.7		NEIC

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	+ Z 19:47:34.3	58.6	227.5	1.9	93	5.3		
	e S	Z 19:55:43.3							
	e L	Z 20:10:29.6			18.3	558		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/02	21:40:31.3	52.860N	159.820E	33.0N	4.8			SZGRF
2001/01/02	21:40:23.4	52.049N	158.625E	33N	4.6			NEIC

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 21:52:04.4	74.6	20.1			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/02	23:17:41.9	11.150S	162.460E	33N	5.1	5.9		NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:37:03.6	134.7	41.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/03	06:57:53.9			N	4.1			SZGRF

South Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:08:04.0					4.1		
BEAM		07:08:04.0			1.0	3			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/03	09:32:55.2			N	4.4			SZGRF
2001/01/03	09:32:54.5	45.302N	149.922E	33N	4.3			NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:44:55.7	78.4	28.3			4.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/03	14:47:55.0	43.790N	146.300E	33.0N	5.9	5.5		SZGRF
2001/01/03	14:47:49.1	43.845N	147.814E	33N	5.8	5.2		NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	i P	+ Z 14:59:34.8	75.7	30.2					
CLL	i P	+ Z 14:59:42.2			0.9	423	6.5		
	e S	E 15:09:31.7							
	e SS	N 15:15:34.6							
	e L	Z 15:38:15.3			18.0	4177		5.8	
BRG	i P	+ Z 14:59:42.7	77.2	32.2					
CLZ	i P	+ Z 14:59:44.8	77.5	30.0					
IBBN	i P	+ Z 14:59:46.7	77.9	28.3					
MOX	i P	+ Z 14:59:48.2	78.1	30.7					
BUG	i P	+ Z 14:59:51.4	78.8	27.9					
GEC2	i P	+ Z 14:59:52.8	79.0	31.8					
WET	i P	+ Z 14:59:53.3	79.0	31.3					
GRA1	i P	+ Z 14:59:54.0	79.1	30.3			5.9		
	e L	Z 15:39:38.0			19.7	2474		5.5	
TNS	i P	+ Z 14:59:55.7	79.5	28.5					
FUR	i P	+ Z 15:00:00.7	80.4	30.2					
STU	i P	+ Z 15:00:01.3	80.5	28.9					
WLF	i P	+ Z 15:00:03.8	80.7	27.0					
BFO	i P	+ Z 15:00:04.5	81.2	28.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (Pdiff)	Z 15:26:50.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/04	00:20:24.5	26.300S	176.442W	33N	4.9			NEIC

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z 00:40:09.4	155.9	17.0					

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	e PKPab	Z	00:40:40.7									
GRA4	e L	Z	01:39:38.1	156.0	17.5	21.4		86		4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2001/01/04	02:04:39.0			N	4.1			SZGRF				

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	02:16:38.9					4.1		
BEAM			02:16:38.9			1.0	2			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2001/01/04	04:02:56.9			N	4.5			SZGRF				
2001/01/04	04:03:01.9	21.208N	98.271E	33N	4.2			NEIC				

Myanmar

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:14:26.3	72.1	78.0			4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2001/01/04	04:18:22.4	36.840N	140.160E	33.0N	6.0	4.8		SZGRF				
2001/01/04	04:18:23.4	37.070N	138.560E	33N	5.6	4.8		NEIC				

Near east coast of eastern Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	04:30:41.7	81.6	39.9			6.0		
	e L	Z	05:14:46.8			19.1	429		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2001/01/04	16:49:39.7	1.180S	14.340W	33.0N	4.7	4.2		SZGRF				

North of Ascension Island

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	16:59:11.1	55.4	211.6			4.7		
GRA2	e L	Z	17:21:43.3	55.4	211.8	20.8	190		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2001/01/04	22:20:59.0	38.911N	14.729E	313	4.7			NEIC				

Tyrrhenian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z	22:23:12.6	9.6	163.6					
GEC2	e P	Z	22:23:17.2	10.0	175.4					
WET	e P	Z	22:23:21.4	10.3	171.9					
BFO	e P	Z	22:23:22.9	10.5	151.5					
	e S	E	22:25:17.7							
STU	e P	Z	22:23:26.0	10.6	156.0					
GRA1	e P	Z	22:23:30.9	11.1	165.6					
MOX	e P	Z	22:23:41.5	11.9	168.2					
BRG	e P	Z	22:23:42.2	12.0	177.1					
TNS	e P	Z	22:23:44.2	12.2	156.1					
WLF	e P	Z	22:23:46.7	12.4	147.2					
CLL	e P	Z	22:23:48.2	12.5	173.8					
CLZ	e P	Z	22:23:57.6	13.3	165.1					
BUG	e P	Z	22:24:01.0	13.6	154.5					
BSEG	e P	Z	22:24:19.0	15.3	166.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	04:05:45.4	15.237S	173.604W	33N	4.7			NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	04:25:21.5	145.3	8.2					
	e (pPKPbc)	Z	04:25:33.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	05:34:38.5	17.537N	147.226E	33N	5.0			NEIC

Mariana Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z	05:52:46.8	102.4	42.7					
	e L	Z	06:38:37.0			22.0	136		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	08:06:52.2	16.660N	61.330W	47.6	5.4	4.3		SZGRF
2001/01/05	08:06:46.8	16.103N	61.046W	34D	5.2	4.6		NEIC

Leeward Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	08:17:34.7	66.4	267.3			5.4		
	i pP	+ Z	08:17:48.1							
	e L	Z	08:45:49.7			18.8	190		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	10:21:46.1					4.8		SZGRF
2001/01/05	10:20:10.7	15.893N	61.036W	35				NEIC

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:34:21.0	66.5	267.1					
	e pP	Z 10:34:24.8							
	e L	Z 11:15:30.5			21.0	387		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	11:40:40.9	13.300S	12.890W	33.0N		4.6		SZGRF
2001/01/05	11:40:09.9	17.712S	13.666W	10G	5.2	5.0		NEIC

Southern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:51:27.5	70.9	205.1					
	e	11:51:33.2							
	e (pX)	Z 11:51:59.1							
	e (SS)	Z 12:12:12.3							
	e L	Z 12:23:45.3			33.5	700		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	11:54:15.6	0.059S	22.021W	10G	5.1	4.6		NEIC

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:04:06.4	57.3	220.7			4.9		
	e	12:04:10.9							
	e	12:04:18.4							
	e PP	Z 12:06:13.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	15:26:27.3	20.989S	179.206W	650G	4.3			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 15:44:58.5			2.0	54			
	e PKPbc	Z 15:45:03.0			1.0	51			
	e PKPab	Z 15:45:08.8			1.0	22			

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GRA1	e PKPdf	Z	15:45:02.2	150.1	19.8
	e PKPbc	Z	15:45:08.0		
	e PKPab	Z	15:45:17.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	19:33:42.7	20.319S	179.445E	500G	4.3			NEIC
South of Fiji Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 19:52:36.0	149.2	21.9					
	e (PKPab)	Z 19:52:42.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 21:02:03.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/05	22:51:47.3	6.911N	126.713E	33N	5.1			NEIC
Mindanao, Philippine Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 23:05:36.3	100.6	65.8					
	e L	Z 23:55:33.5			18.4	763		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPbc)	Z 00:54:41.4							
	e (PKPab)	Z 00:54:49.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06	02:48:09.8	35.354N	137.043E	45D	4.7			NEIC
Eastern Honshu, Japan								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:00:32.0	82.4	41.9			5.2		

e pP Z 03:00:44.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06	04:45:29.0	6.743N	126.865E	33N	5.6	5.3		NEIC

Mindanao, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 04:59:17.5	100.9	65.7					
	e	04:59:28.6							
	e	04:59:35.3							
	e PP	Z 05:03:16.2							
	e L	Z 05:48:19.9			21.7	1374		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06	05:30:60.0			G	4.6			SZGRF
2001/01/06	05:31:26.3	70.012N	6.703E	10G	4.4			NEIC

Norwegian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:36:05.9	20.4	355.6			4.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 06:26:42.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06	09:25:39.3	51.350N	172.390W	33.0N	4.9			SZGRF
2001/01/06	09:25:36.8	51.368N	174.933W	33N	4.7			NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 09:37:39.8	78.8	3.9			4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06	11:19:52.1			N	4.2	4.1		SZGRF

Northern Mid-Atlantic Ridge

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 11:25:06.3					4.2		
BEAM		11:25:06.3			1.7	14			
GRA1	e L	Z 11:34:53.3			18.3	518		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (Pdiff)	Z 16:09:35.9							
	e L	Z 17:01:05.7			19.1	1490			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/06	19:56:42.9			N	4.9			SZGRF
2001/01/06	19:56:18.4	17.610N	61.950W	48D	4.7			NEIC

Leeward Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:07:16.8	65.8	269.1			4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/07	06:26:42.3	58.840N	158.750E	16.4	5.2	4.9		SZGRF
2001/01/07	06:26:56.8	59.415N	147.206E	10G	5.4	5.0		NEIC

Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	Z 06:37:29.0			0.9	77	5.8		
	e PP	Z 06:39:46.4							
	e PPP	Z 06:41:23.4							
	e S	Z 06:46:09.7							
	e SS	Z 06:50:31.2							
	e L	Z 07:08:41.0			18.0	1397		5.2	
GRA1	e P	Z 06:37:42.7	65.2	22.9			5.2		
	e (pP)	Z 06:37:47.3							
	e L	Z 07:06:46.7			18.2	635		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/07	06:49:42.0	41.510N	44.560E	33.0N	4.1			SZGRF
2001/01/07	06:49:00.5	40.150N	50.113E	33N	4.9			NEIC

Western Caucasus

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:54:58.4	28.8	94.4			4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/07	07:53:48.1	29.230N	139.840E	33.0N	4.8			SZGRF
2001/01/07	07:54:32.9	30.294N	138.723E	395D	4.6			NEIC

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 08:06:39.3	87.4	43.3			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/07	10:18:23.7	33.409S	72.084W	33N	5.3	5.7		NEIC

Near coast of central Chile

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e Pdiff	Z 10:33:04.9			19.4	170			
	e PP	Z 10:37:38.9							
	e PPP	Z 10:40:09.2							
	e SKSac	Z 10:43:40.1							
	e PS	Z 10:47:14.1							
	e PPS	Z 10:48:41.7							
	e SS	N 10:53:24.0							
	e SSS	N 10:57:28.2							
	e L	Z 11:23:11.4			20.0	5322		6.1	
GRA1	e PKPdf	Z 10:37:10.6	110.9	242.6					
	e L	Z 11:23:46.7			19.0	2935		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/07	12:55:46.7	8.720S	108.913E	33N	5.6	5.1		NEIC

Jawa, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 13:09:53.2	101.6	89.8					
	e PP	Z 13:13:44.1							
	e L	Z 14:03:08.2			21.7	231		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/07	18:19:39.6	7.990S	14.160W	33.0N	4.7	3.9		SZGRF

Ascension Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:29:55.5	61.8	208.8			4.7		
	e L	Z 18:56:23.4			21.6	98		3.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/08	04:20:48.3	5.515N	127.358E	33N	5.1	4.4		NEIC

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 04:34:44.2	102.1	66.1					
	e L	Z 05:26:48.0			21.1	146		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/08	22:51:43.2				4.7			SZGRF
2001/01/08	22:51:52.9	52.538N	169.124W	33N	4.6	4.3		NEIC

South of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:03:51.2	77.8	0.2			4.7		
	e (pP)	Z 23:04:08.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09	01:46:18.4	15.650N	91.870W	93.4	5.1	4.9		SZGRF
2001/01/09	01:46:09.4	15.739N	92.993W	33N	5.2	4.6		NEIC

Mexico-Guatemala border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:58:49.8	86.9	290.9			5.1		
	e pP	Z 01:59:13.6							
	e (sP)	Z 01:59:26.0							
	e L	Z 02:35:07.1			21.5	491		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 04:50:05.2					5.1		
ALIGN		04:50:05.2			1.0	15			
GRA1	e pP	Z 04:50:18.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09	07:20:54.6	18.421S	176.211E	33N	4.6			NEIC
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 07:40:32.3	146.5	26.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 07:44:38.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09	07:33:15.8	18.438S	175.913E	33N	4.9			NEIC
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 07:52:55.5	146.4	26.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09	07:52:03.5	18.494S	176.048E	33N	5.5	5.1		NEIC
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	- Z 08:11:43.0	146.5	26.7					
	e L	Z 09:27:38.7			19.5	215		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z 08:20:11.4							
	e PKPbc	Z 08:20:12.9							
	e PKPab	Z 08:20:18.7							

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:21:14.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09	16:49:28.9	14.898S	167.154E	111D	6.2			NEIC
Vanuatu Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e Pdiff	Z 17:05:50.3							
	e sPdiff	Z 17:06:30.7							
	e PKPbc	Z 17:08:32.2							
	e PKPdf	Z 17:08:43.0			1.1	149			
	e pPKPdf	Z 17:09:15.5							
	e PP	Z 17:11:31.7							
	e pPP	Z 17:11:58.6							
	e SKP	Z 17:12:06.0							
	e sPP	Z 17:12:10.5							
	e sPPP	Z 17:15:03.3							
	e SKKS	Z 17:18:14.0							
	e SKKP	Z 17:20:49.0							
	e PSKS	Z 17:21:29.4							
	e PPS	Z 17:23:35.2							
	e SS	N 17:29:35.1							
	e LV	Z 17:54:14.6							
	e L	Z 18:09:21.5			20.0	13496		6.7	
GRA1	e PKPdf	Z 17:08:39.8	140.1	37.9					
	e pPKPdf	Z 17:09:13.2							
	e	17:10:44.8							
	e PP	Z 17:11:43.1							
	e pPP	Z 17:12:12.1							
	e (PKKSbc)	Z 17:20:42.9							
	e L	Z 18:15:13.6			20.9	7858		6.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/09	18:15:37.3			N				SZGRF
Central Mediterranean Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:19:33.7	17.0	165.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	07:27: 9.9			N	4.4	3.6		SZGRF
2001/01/10	07:27:08.8	67.815N	18.274W	10G	3.9	3.6		NEIC

Iceland region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	+ Z 07:32:18.1	23.3	331.9			4.4		
	e L	Z 07:40:39.3			19.8	227		3.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	07:49:39.0			N	4.6	3.7		SZGRF
2001/01/10	07:49:38.9	67.675N	18.880W	10G	4.7			NEIC

Iceland region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:54:49.4	23.4	331.3			4.6		
	e L	Z 08:02:46.8			21.5	298		3.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	07:58:18.4	15.004S	168.173E	33N	5.2	4.2		NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 08:17:44.1	140.6	36.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z 12:11:34.9							
	i PKPbc	- Z 12:11:36.5							
	e PKPab	Z 12:11:40.9							
	e (pPKPbc)	Z 12:11:47.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 15:49:57.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	16:02:50.1	57.580N	152.680W	33.0N	6.5	6.8		SZGRF
2001/01/10	16:02:43.4	57.019N	153.398W	33N	6.1	6.8		NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z	16:13:42.5	67.9	352.2					
BSEG	e P	Z	16:13:44.3	68.3	350.5					
	e L	Z	16:46:09.8			19.7	99694		7.0	
IBBN	e P	Z	16:13:52.6	69.6	349.2					
	e L	Z	16:47:11.9			20.3	50235		6.7	
CLZ	e P	Z	16:13:57.2	70.3	350.7					
	e L	Z	16:47:44.8			20.4	76592		6.9	
BUG	e P	Z	16:13:57.0	70.4	349.0					
	e L	Z	16:47:39.4			20.8	57532		6.8	
CLL	i P	Z	16:14:01.9			1.0	286	6.4		
	e PP	Z	16:16:35.9							
	e PPP	Z	16:18:29.3							
	e S	E	16:23:18.7							
	e PS	E	16:23:47.8							
	e SS	N	16:28:03.8							
	e SSS	E	16:31:28.1							
	e P'P'df	Z	16:41:53.3							
	e L	Z	16:51:42.7			18.0	72019		7.0	
BRG	e P	Z	16:14:04.4	71.6	352.8					
	e L	Z	16:52:37.3			20.8	61378		6.8	
MOX	e P	Z	16:14:04.8	71.6	351.5					
	e L	Z	16:47:35.2			21.4	54097		6.8	
TNS	e P	Z	16:14:05.4	71.7	349.7					
	e L	Z	16:47:34.5			19.9	71167		6.9	
WLF	e P	Z	16:14:07.2	72.0	348.5					
	e L	Z	16:46:57.1			22.0	64451		6.8	
GRA1	e P	Z	16:14:10.5	72.5	351.3	1.4	540	6.5		
	e PP	Z	16:16:50.1							
	e S	Z	16:23:45.0							
	e PKPPKP	Z	16:41:50.0							
	e L	Z	16:47:09.1			21.4	28816		6.5	
STU	e P	Z	16:14:14.1	73.2	350.2					
	e L	Z	16:49:20.2			19.1	82660		7.0	
WET	e P	Z	16:14:14.5	73.2	352.2					
	e L	Z	16:53:32.4			21.2	77880		7.0	
BFO	e P	Z	16:14:15.9	73.6	349.7					
	e L	Z	16:48:41.1			20.8	77522		7.0	
GEC2	e P	Z	16:14:16.4	73.6	352.7					
	e L	Z	16:57:01.6			19.8	56683		6.9	
FUR	e P	Z	16:14:19.1	74.0	351.4					
	e L	Z	16:54:22.6			20.3	42574		6.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	20:12:29.1	57.020N	153.760W	36.7	5.6			SZGRF
2001/01/10	20:12:23.9	57.078N	153.729W	33N	5.3	5.0		NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 20:23:52.8	72.5	351.5			5.6		
	e	Z 20:23:56.9							
	e (pP)	Z 20:24:03.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	20:19:09.2	57.118N	153.794W	33N	4.9			NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:30:37.0	72.5	351.5			5.3		
	e pP	Z 20:30:49.7							
	e sP	Z 20:30:53.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/10	20:25:52.5	57.037N	153.855W	33N	4.6			NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 20:37:22.0	72.6	351.6			4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/11	00:04:06.5	49.199N	128.873W	10G	5.5	5.8		NEIC

Vancouver Island, Canada, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	Z 00:15:47.1			1.2	45	5.5		
	i pP	Z 00:16:03.2							
	e PP	Z 00:18:37.1							
	e S	E 00:25:27.1							
	e SS	E 00:30:15.5							
	e L	Z 00:49:29.7			20.0	4722		5.8	
GRA1	i P	- Z 00:15:54.2	75.3	334.3			5.5		

e			00:15:57.4								
e			00:15:59.9								
e (pP)	Z		00:16:10.9								
e			00:16:23.9								
e L	Z		00:46:23.5			21.5	4332		5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/11	01:49:59.1	28.462N	43.684W	10G	4.9	4.2		NEIC

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:58:27.9	46.3	263.9			4.9		
	e pP	Z 01:58:33.8							
	e L	Z 02:30:24.6			20.7	262		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/11	03:29:05.6	56.992N	153.572W	33N	4.4			NEIC

Gulf of Alaska

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	+ Z 03:40:34.1	72.6	351.4			5.0		
	e pP	Z 03:40:42.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/11	08:36:58.4	24.023N	121.050E	33N	5.1	4.3		NEIC

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA2	e L	Z 09:30:42.8	83.6	59.9	19.2	131		4.3	
GRA1	e P	Z 08:49:28.1	83.7	59.8			4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/11	19:59:42.8	18.788S	176.711W	33N	5.4	5.4		NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 20:19:26.6	148.4	14.5					
	i PKPbc	+ Z 20:19:29.4							
	e pPKPbc	Z 20:19:33.8							
	e PKPab	Z 20:19:36.3							
	e (pPKPab)	Z 20:19:41.7							

e L	Z	21:29:56.3	20.2	486	5.3
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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/11	22:59:37.7	30.110N	140.590E	63.6	5.4	4.8		SZGRF
2001/01/11	23:00:07.3	35.577N	134.369E	33N	5.1	4.9		NEIC

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:12:22.7	81.0	43.6			5.4		
	e pP	Z 23:12:40.5							
	e L	Z 23:49:45.6			20.7	385		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/12	02:37:30.9	27.500N	42.940W	10.0G	5.0	4.0		SZGRF
2001/01/12	02:37:15.7	26.843N	44.619W	10G	5.0	4.7		NEIC

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 02:45:58.6	48.1	263.1			5.0		
	e L	Z 03:02:08.2			21.6	196		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:53:16.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/12	10:47:39.5	15.576S	74.715W	33N	5.2	5.4		NEIC

Near coast of Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 11:01:20.6	99.2	256.8					
	e L	Z 11:46:52.1			18.5	739		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/12	13:07:57.7	16.919S	174.932W	256D	5.2			NEIC

Tonga Islands

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	13:27:09.6	146.9	10.8					
	i PKPbc	- Z	13:27:12.0							
	e PKPab	Z	13:27:13.7							
	e pPKPbc	Z	13:28:15.9							
	e pPKPab	Z	13:28:18.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/12	19:18:19.1	17.190N	124.080E	33.0N	5.4	5.2		SZGRF
2001/01/12	19:18:26.1	17.379N	120.913E	33N	5.5	5.0		NEIC

Philippine Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z	19:31:19.5	88.9	64.0			5.4		
	e PP	Z	19:34:49.9							
	e L	Z	20:12:13.8			20.5	962		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/13								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z	01:57:33.4							
	e (PKPab)	Z	01:57:39.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/13	08:53: 9.7				4.9	4.4		SZGRF
2001/01/13	08:52:51.3	9.830N	124.896E	33N	5.2	5.3		NEIC

East of Philippine Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	09:06:22.8	97.2	65.5			4.9		
	e (pP)	Z	09:06:41.0							
	e L	Z	09:55:25.5			20.2	131		4.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/13	13:08:41.0	40.739N	125.334W	5	5.4	5.2		NEIC

Off coast of northern California, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	13:21:08.2	81.8	328.2			5.3		
	e (pP)	Z	13:21:13.6							

	e PP	Z	17:49:33.7									
	e SKSac	E	17:56:38.2									
	e PPS	Z	17:58:10.5									
	e SS	E	18:02:27.0									
	i PKKPbc	Z	18:04:10.9			2.2		357				
	e SSS	E	18:06:07.1									
	e SSSS	Z	18:09:19.4									
	e P'P'df	Z	18:12:16.4									
	e L	Z	18:23:30.7			22.0		545442			7.9	
	e L(360-D)	Z	19:47:07.2									
WET	e P	Z	17:46:15.7	87.6	287.3							
	e L	Z	18:21:02.8			21.3		762351			8.1	
BRG	e P	Z	17:46:16.1	87.7	288.0							
	e L	Z	18:25:53.3			21.2		401049			7.8	
GEC2	e P	Z	17:46:18.3	88.2	287.9							
	e L	Z	18:20:12.9			22.0		411728			7.8	

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/14

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	GRA1	e PKPdf	Z 00:49:00.5							
		e (pPKPdf)	Z 00:49:15.1							

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/14 06:20:46.7 24.607S 177.285W 134D 4.8
 South of Fiji Islands

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
	CLL	i PKPbc	- Z 06:40:27.3			0.7	27			
		e PKPab	Z 06:40:34.7							
		e pPKPbc	Z 06:40:58.8							
	GRA1	e (PKPbc)	Z 06:40:34.2	154.1	17.9					
		e PKPab	Z 06:40:45.7							

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/14 08:58:32.6 23.100N 143.110E 89.2 5.7 5.2
 2001/01/14 08:58:24.7 22.016N 143.712E 89D 5.7
 Volcano Islands, Japan, region

	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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CLL	i P	+ Z	09:11:38.5			1.1	29	5.6		
	e pP	Z	09:12:00.7							
	e sP	Z	09:12:09.1							
	e PP	Z	09:15:28.0							
	e SKSac	N	09:22:03.8							
	e S	N	09:22:31.4							
	e PS	Z	09:23:53.0							
	e PKKPbc	Z	09:28:32.9			1.1	16			
	e SS	N	09:29:12.2							
	e L	Z	09:55:32.3			20.0	1283		5.4	
GRA1	i P	- Z	09:11:47.9	96.8	43.5				5.7	
	e pP	Z	09:12:11.8							
	e		09:12:16.1							
	e (sP)	Z	09:12:19.5							
	e		09:15:07.6							
	e PP	Z	09:15:44.4							
	e PKKP	Z	09:28:28.3							
	e L	Z	09:48:30.2			42.1	1889		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/14	10:08:27.1	22.462S	171.538E	33N	5.0			NEIC
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:28:10.6	148.7	36.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/14								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 19:59:55.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/14	20:10: 3.7	26.020S	59.530E	27.7	5.0			SZGRF
South Indian Ocean								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 20:22:46.9	87.0	137.8			5.0		
	e pP	Z 20:22:55.0							
	e	20:23:01.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/14	22:41:28.0	13.339N	88.517W	33N	5.2	5.2		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:54:05.8	86.0	286.0			5.0		
	e L	Z 23:28:51.5			20.6	1506		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/14	22:47:51.8	12.847N	88.660W	33N	5.2	5.2		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:00:32.2	86.5	285.8			4.7		
	e (pP)	Z 23:00:54.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	00:22:50.4	12.680N	88.737W	33N	5.0	4.5		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:35:49.5	86.7	285.7					
	e	00:35:52.1							
	e L	Z 01:09:47.5			20.3	371		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	01:40:45.8	20.761S	178.426W	497?	4.5			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z 01:59:37.1	150.1	18.3					
	i PKPbc	- Z 01:59:39.5							
	e PKPab	Z 01:59:48.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	05:09:09.2	13.297N	88.904W	33N	5.0	4.7		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:21:45.8	86.3	286.3			4.9		

e pP	Z	05:21:58.9								
e sP	Z	05:22:06.0								
e PP	Z	05:25:31.8								
e L	Z	05:55:50.7			21.7		858		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	05:52:15.5	40.369S	78.365E	10G	5.8	6.3		NEIC

Mid-Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 06:10:58.1	107.6	132.6					
	e L	Z 07:01:50.0			20.7	2705		5.8	
CLL	e PP	Z 06:11:06.8							
	e Sdiff	N 06:18:47.4							
	e PS	Z 06:20:27.0							
	e SS	N 06:26:14.8							
	e L	Z 07:03:30.6			20.0	5516		6.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	12:20:07.2	13.140N	88.762W	33N	5.2	5.1		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:33:03.5	86.3	286.0			5.1		
	e L	Z 13:06:46.8			21.2	1817		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	19:44:27.4			N	4.6			SZGRF

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:56:36.9					4.6		
BEAM		19:56:36.9			0.8	4			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/15	23:08:43.0							SZGRF

East of Kuril Islands, Russia

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:20:51.6							
	e (pP)	Z 23:21:05.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	04:38:46.6	12.712N	88.421W	33N	4.7	4.8		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:51:43.3	86.4	285.5			4.6		
	e L	Z 05:27:38.8			21.0	436		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	08:22:08.9	13.019N	88.673W	33N	5.2	5.2		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 08:34:47.9	86.4	285.9			5.4		
	e L	Z 09:08:43.3			21.9	1619		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	10:58:13.7	12.879N	88.715W	33N	5.7	5.1		NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	- Z 11:10:53.5	86.5	285.8			5.3		
	e	11:11:18.4							
	e L	Z 11:45:38.9			20.3	1571		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	11:24:27.4	12.692N	88.953W	33N	4.9			NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:37:29.3	86.8	285.9			5.0		
	e L	Z 12:11:02.5			21.3	935		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	13:25:01.1	3.942S	101.810E	33N	6.1	6.7		NEIC

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	+ Z 13:38:09.1			1.1	60	5.8		
	e PP	Z 13:41:51.6							
	e PPP	Z 13:43:56.4							
	e SKSac	E 13:48:47.9							
	e S	N 13:49:11.4							
	e PS	Z 13:50:32.6							
	e SS	N 13:55:28.0							
	e SSSS	N 14:01:52.8							
	e L	Z 14:25:22.8			22.0	17018		6.5	
	GRA1	i P	+ Z 13:38:15.1	93.4	92.1			6.0	
e pP		Z 13:38:25.6							
e PP		Z 13:42:07.2							
e L		Z 14:30:19.3			20.0	10556		6.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	13:39:05.6	4.189S	101.661E	33N	5.5			NEIC

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:52:20.5	93.5	92.4			5.8		
	e pP	Z 13:52:30.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	14:25: 1.2				5.2			SZGRF
2001/01/16	14:25:10.7	4.214S	101.707E	33N	5.7			NEIC

Southwest of Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:38:25.5	93.5	92.4			5.2		
	e pP	Z 14:38:35.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	16:49:55.0	4.199S	101.588E	33N	5.7	5.4		NEIC

Southern Sumatera, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:03:09.9	93.4	92.4			5.7		
	e pP	Z 17:03:26.4							
	e L	Z 17:49:36.9			20.9	685		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	18:47:53.3	13.892N	91.517W	33N	4.9			NEIC

Near coast of Guatemala

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 19:00:39.1	87.4	288.6			5.1		
	e pP	Z 19:00:54.3							
	e L	Z 19:35:37.3			20.5	198		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/16	22:28:1.0	35.380N	28.770E	33.0N				SZGRF

Eastern Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:32:22.5	19.2	131.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/17	00:27:21.2	49.960N	17.850E	1.0G			2.7	SZGRF

Czech and Slovak Republics

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e Pg	Z 00:28:07.9	2.7	108.6					2.5
	e Sg	N 00:28:45.6							
GEC2	e Pg	Z 00:28:14.6	2.9	66.0					2.6
	e Sg	N 00:28:53.2							
WET	e Pg	Z 00:28:20.9	3.3	73.9					2.9
	e Sg	N 00:29:07.1							
CLL	e Pg	Z 00:28:21.7	3.4	111.8					2.9
	e Sg	N 00:29:08.3							
MOX	e Sg	N 00:29:29.5	4.0	97.3					
GRA1	e Sg	N 00:29:38.7	4.3	83.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/17	01:40:15.0	12.991N	88.911W	33N	4.9			NEIC

Off coast of central America

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:52:51.9	86.5	286.1			5.0		
	e	01:53:19.2							
	e L	Z 02:26:50.0			21.6	667		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/17	09:36:24.5	17.440S	174.417W	33N	4.7			NEIC
Tonga Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 09:56:06.3	147.4	10.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/17	10:51:42.2	28.428S	176.338W	33N	5.3	5.1		NEIC
Kermadec Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z 11:11:33.6			1.0	10			
	i PKPbc	Z 11:11:43.3			0.9	8			
	i PKPab	Z 11:12:01.3							
	e pPKPab	Z 11:12:22.6							
GRA1	e PKPab	Z 11:12:10.2	158.0	18.0					
	e L	Z 12:26:52.6			18.8	248		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/17	12:09:52.2	36.788N	36.008E	10G	4.7			NEIC
Jordan - Syria region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:14:52.2	22.0	116.5			3.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/17	12:25: 0.3			G	4.6			SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:35:09.3					4.6		
BEAM		12:35:09.3			1.5	9			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source	
2001/01/18									
Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML

GRA1	e P	Z	01:53:50.1						5.1
BEAM			01:53:50.1			1.8	23		
GRA1	e L	Z	02:32:04.8			21.0	564		5.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:35:45.6					4.9		
BEAM			07:35:45.6			2.2	29			
GRA1	e L	Z	08:05:56.3			21.9	128		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	07:39:50.7					5.5		
BEAM			07:39:50.7			1.1	20			
GRA1	e pP	Z	07:40:03.0							
	e sP	Z	07:40:06.5							
	e L	Z	08:29:56.3			21.5	197		4.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/18	08:41:50.1	38.991N	66.924E	70D	5.6			NEIC
Southeastern Uzbekistan								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z	08:49:07.7			0.9	31	5.0		
	e		08:49:12.3							
	e PP	Z	08:50:36.0							
	e S	E	08:55:10.9							
	e SS	Z	08:57:42.1							
	e L	Z	09:07:40.6			20.0				
GRA1	i P	+ Z	08:49:19.6	40.3	83.5			5.3		
	i		08:49:24.2							
	e PP	Z	08:50:51.6							
	e PcP	Z	08:51:21.6							
	e S	Z	08:55:41.7							
	e L	Z	09:09:12.7			21.8	468		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/18								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e Pdiff	Z 12:46:58.5					
		e L	Z 13:31:59.4			34.8	205	4.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/18								
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e PP	Z 15:37:34.2					
		e L	Z 16:19:35.4			20.4	195	4.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/18	17:03:28.8			N				SZGRF
	Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb MS ML
	GRA1	e P	Z 17:13:28.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/19	01:12:50.4	15.570N	95.560W	126.4	5.8	5.3		SZGRF
2001/01/19	01:12:52.5	15.476N	92.634W	93D	5.4			NEIC

Near coast of Oaxaca, Mexico

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 01:25:28.9	86.9	290.4			5.8		
	e	01:26:00.4							
	e pP	Z 01:26:03.1							
	e sP	Z 01:26:12.3							
	e	01:26:25.1							
	e	01:26:35.6							
	e SKS	Z 01:35:55.1							
	e L	Z 02:01:00.1			20.7	1120		5.3	
CLL	i P	- Z 01:25:31.1			1.7	68	5.5		
	e pP	Z 01:25:58.7							
	e PP	Z 01:28:50.9							
	e pPP	Z 01:29:21.2							
	e S	E 01:35:53.1							
	e PS	Z 01:37:06.6							
	e LV	Z 01:54:10.9							
	e L	Z 02:00:27.7			20.0	2620		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/19	08:10:14.7	11.642S	166.309E	50D	5.7	6.1		NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPdf	+ Z 08:29:29.6			1.2	32			
	e pPKPdf	Z 08:29:44.0							
	e PP	Z 08:32:01.4							
	e sPP	Z 08:32:21.8							
	e SKP	Z 08:33:04.5							
	e PPP	Z 08:35:01.0							
	e PS	Z 08:42:12.2							
	e PPS	Z 08:44:09.8							
	e SS	E 08:50:10.2							
	e SSS	Z 08:55:23.8							
	e L	Z 09:32:58.5			20.0	5417		6.3	
GRA1	e PKPdf	Z 08:29:32.2	136.8	37.0					
	e pPKPdf	Z 08:29:51.5							
	e sPKPdf	Z 08:30:01.3							
	e PP	Z 08:32:08.5							
	e (pPP)	Z 08:32:53.2							
	e L	Z 09:34:32.3			20.7	2922		6.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/20	00:14:26.7	50.708N	129.760W	10G	4.8	5.0		NEIC

Vancouver Island, Canada, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:26:10.0	74.2	335.5			4.8		
	e S	Z 00:35:49.9							
	e L	Z 00:59:54.4			19.6	578		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/20	09:13:27.6	4.284S	152.645E	33N	5.1	4.6		NEIC

New Britain, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:32:25.0	124.1	48.7					
	e L	Z 10:30:03.9			21.3	118		4.5	

Northern Molucca Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 22:13:05.8	103.7	68.5					
	e	22:13:25.7							
	e L	Z 22:57:55.3			32.0	261		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/20	22:48:44.5	45.102N	28.124W	10G	4.9	5.1		NEIC

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 22:54:26.4	26.7	275.4			5.0		
	e pP	Z 22:54:36.8							
	e sP	Z 22:54:41.3							
	e L	Z 23:04:01.7			20.3	2159		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/20	23:09:18.3	44.590N	32.120W	16.7	5.0	4.3		SZGRF
2001/01/20	23:09:39.9	45.096N	28.055W	10G	4.9	4.2		NEIC

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 23:15:22.0	26.7	275.3			5.0		
	e pP	Z 23:15:26.3							
	e L	Z 23:24:55.5			20.0	682		4.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/21	01:30:32.7	38.580N	44.520W	33.0N	5.3	5.0		SZGRF

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 01:38:08.9	40.5	276.0			5.3		
	e L	Z 01:47:00.1			21.6	2311		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/21	01:35:36.8	44.030N	34.510W	33.0N	5.0			SZGRF
2001/01/21	01:36:11.4	44.970N	28.100W	10G	4.5			NEIC

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 01:41:54.1 26.6 276.5 5.0

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/21 04:44:01.6 10.132N 126.186E 33N 5.4 5.3
 East of Philippine Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e Pdiff Z 04:57:36.3 97.7 64.2
 e L Z 04:57:48.5
 e L Z 05:48:30.4 18.0 669 5.2

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/21

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e PKPdf Z 09:42:08.6

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/21 11:54:38.0 42.880N 38.120W 33.0N 4.7
 2001/01/21 11:55:38.8 45.238N 28.062W 10G 4.7
 North Atlantic Ocean

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 12:01:20.2 26.6 275.6 4.7

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/21 11:58:52.6 45.165N 28.119W 10G 4.8 5.1
 Northern Mid-Atlantic Ridge

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 i P - Z 12:04:35.4 26.7 275.5 4.7
 e L Z 12:13:38.9 21.1 2689 4.8

Date Origin Time Lat Long Depth mb Ms ML Source
 2001/01/21 12:15: 3.4 N 4.2
 North Atlantic Ocean

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
 GRA1 e P Z 12:21:50.5

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GRA1 e PKPdf Z 01:05:48.5 124.5 48.3

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/23

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 04:18:55.9
e PP Z 04:19:57.3
e L Z 04:30:20.3 20.5 888 4.4

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/23 05:23:34.1 14.080N 91.240W 62.4 5.4 5.4 SZGRF
2001/01/23 05:23:31.7 14.356N 91.017W 33N 5.5 5.3 NEIC
Guatemala

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 05:36:13.1 86.8 288.5 5.4
e pP Z 05:36:29.0
e sP Z 05:36:39.9
e L Z 06:11:24.9 21.2 1529 5.4

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/23 07:37:53.0 19.157N 64.239W 62 4.9 NEIC
Virgin Islands

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 07:48:41.0 66.2 272.0 4.8

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/23 09:39:29.5 48.650N 128.420W 33.0N 4.8 5.1 SZGRF
2001/01/23 09:39:23.3 49.444N 128.818W 10G 5.2 5.2 NEIC
Vancouver Island, Canada, region

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 09:51:12.1 75.1 334.4 4.8
e L Z 10:21:41.1 21.5 1128 5.1

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/23 11:24:16.2 4.919S 153.499E 33N 5.1 4.3 NEIC

New Ireland, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 11:43:15.8	125.1	48.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/23	14:43:15.0	49.507N	128.766W	10G	4.8	5.0		NEIC

Vancouver Island, Canada, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:55:01.7	75.0	334.4			4.9		
	e L	Z 15:25:21.1			21.8	608		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/23	16:11:35.0	29.894N	142.019E	55D	5.0			NEIC

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:24:27.7	89.2	41.0			5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/23	16:24:03.2	29.996N	142.029E	54D	5.1			NEIC

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:37:06.4	89.1	41.0			5.1		
	e L	Z 17:15:32.4			20.7	663		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 16:53:26.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/23	17:38:36.4			N	5.3			SZGRF
2001/01/23	17:38:07.7	0.246S	99.211E	33N	5.4	5.0		NEIC

Northern Sumatera, Indonesia

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:51:00.9	88.9	91.7			5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/23	18:58:25.4	19.734S	178.467W	600G	4.7			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z 19:17:06.7	149.1	17.9					
	i PKPbc	+ Z 19:17:08.7							
	e PKPab	Z 19:17:15.3							
	e pPKPbc	Z 19:17:37.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/24	05:34:39.4	0.240N	20.270W	19.8	5.5	4.8		SZGRF
2001/01/24	05:34:34.2	0.329S	20.047W	10G	5.4	5.2		NEIC

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 05:44:19.0	56.7	218.4			5.5		
	e pP	Z 05:44:24.5							
	e PP	Z 05:46:22.2							
	e S	Z 05:52:18.4							
	e L	Z 06:03:27.2			36.9	1317		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/24	09:22:31.0	17.349S	174.452W	33N	4.7			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPbc)	Z 09:42:12.5	147.3	10.1					
	e PKPab	Z 09:42:15.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/24	17:47:29.1	56.540N	158.490W	33.0N	5.1	4.2		SZGRF
2001/01/24	17:47:22.2	55.514N	156.483W	42	5.0	4.7		NEIC

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 17:58:58.4	74.3	352.8			5.1		
	e L	Z 18:40:10.3			20.7	140		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/24	21:07:21.0	29.984S	177.974W	33N	5.4	5.0		NEIC

Kermadec Islands, New Zealand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPab	Z 21:27:52.6	159.1	22.8					
	e	21:27:56.7							
	e (pPKPab)	Z 21:28:09.8							
	e L	Z 22:49:16.6			21.3	151			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/24	21:50:0.1	47.320N	162.850E	33.0N	4.7			SZGRF
2001/01/24	21:50:08.9	48.487N	154.745E	10G	4.4			NEIC

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:02:06.3	76.9	23.9			4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/25	02:17:12.9	45.980N	6.580E	10.0G				SZGRF

France

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 02:17:54.8	2.6	207.5					
	e Sg	E 02:18:35.8							
STU	e Sg	N 02:18:58.0	3.3	213.3					
FUR	e Sg	N 02:19:15.7	3.9	237.4					
TNS	e Pn	Z 02:18:20.6	4.4	197.1					
GRA1	e Sg	E 02:19:47.9	4.8	221.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/25	05:29:21.4	58.420N	152.740W	33.0N	5.2			SZGRF
2001/01/25	05:29:39.0	60.150N	152.333W	74	5.2			NEIC

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:40:36.9	69.4	351.3	1.3	28	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/25								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 22:38:27.7							
BRG	e PKP	Z 22:38:17.2							
BSEG	e PKP	Z 22:38:13.9							
BUG	e PKP	Z 22:38:22.5							
CLL	e PKP	Z 22:38:17.2							
CLZ	e PKP	Z 22:38:19.2							
FUR	e PKP	Z 22:38:25.8							
GEC2	e PKP	Z 22:38:21.5							
GRA1	e PKP	Z 22:38:23.0							
	e	22:38:31.5							
IBBN	e PKP	Z 22:38:20.4							
MOX	e PKP	Z 22:38:20.3							
RUE	e PKP	Z 22:38:13.8							
STU	e PKP	Z 22:38:26.3							
TNS	e PKP	Z 22:38:24.4							
WET	e PKP	Z 22:38:22.1							
WLF	e PKP	Z 22:38:28.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	03:16:40.7	23.326N	70.317E	23D	6.9	8.0		NEIC
Arabian Sea								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 03:25:42.4	50.9	98.9	1.5	3023	7.0		
	e L	Z 03:54:36.8			18.1	403045		7.5	
BRG	e P	Z 03:25:44.7	51.1	100.7	1.4	5301	7.3		
	e L	Z 03:52:56.4			20.6	581092		7.6	
WET	e P	Z 03:25:46.6	51.5	98.4	1.5	1135	6.6		
	e L	Z 03:55:20.3			20.7	587448		7.6	
CLL	i P	+ Z 03:25:49.8			1.6	9205	7.5		
	e	03:25:59.6							
	e PcP	Z 03:27:04.0							
	e PP	Z 03:27:50.2							
	e S	Z 03:33:16.9							
	e ScS	N 03:35:23.0							
	e SS	Z 03:37:03.5							
	e L	Z 03:54:52.6			18.0	955237		7.9	
	e PKPPKPdf	Z 03:56:21.6							
	e PKPPKPbc	Z 03:56:40.5							
	e P K K K K P	Z 04:03:19.9							
	e L (360-D)	Z 05:48:19.7							
FUR	e P	Z 03:25:52.8	52.4	96.4	1.2	2171	7.0		
GRA1	e P	Z 03:25:56.1	52.6	97.5	1.5	5282	7.3		

Station	Phase	Type	Time	Depth	mb	Ms	ML	Source	mb	MS	ML
	e pP	Z	03:26:03.5								
	e PP	Z	03:27:58.2								
	e S	E	03:33:19.2								
	e SS	E	03:37:29.9								
GRFO	e P	Z	03:25:55.8		52.6	97.5					
	e L	Z	03:54:13.7				19.7	663894			7.7
CLZ	e P	Z	03:26:01.8		53.5	98.4	1.5	3538		7.2	
	e L	Z	03:55:46.6				18.7	874958			7.8
BSEG	e P	Z	03:26:04.4		53.8	99.8	1.5	3568		7.2	
	e L	Z	03:51:40.5				21.9	1163617			7.9
STU	e P	Z	03:26:03.2		53.8	95.2	1.3	2821		7.1	
BFO	e P	Z	03:26:06.8		54.4	94.2	1.3	736		6.6	
	e L	Z	03:55:15.3				21.4	488583			7.5
TNS	e P	Z	03:26:09.4		54.5	95.6	1.5	4610		7.3	
	e L	Z	03:50:20.5				21.3	378042			7.4
BUG	e P	Z	03:26:15.0		55.3	95.5	1.4	3724		7.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	03:33:25.3	21.570N	70.350E	33.0N	5.7			SZGRF
2001/01/26	03:33:30.0	23.160N	69.440E	33N	5.2			NEIC

Southern India

Sta	Phase	Type	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	03:42:45.9	52.2	98.4	1.4	116	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	03:45:30.0	23.010S	178.970W	634.3				GRSN

South of Fiji Islands

Sta	Phase	Type	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKPdf	Z	04:04:14.3	150.2	22.6					
	e PKPbc	- Z	04:04:18.2							
	e PKPab	Z	04:04:25.1							
	e pPKPbc	Z	04:06:37.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	03:59: 6.0	21.750N	68.360E	33.0N				SZGRF
2001/01/26	03:59:03.0	23.270N	70.060E	33N	5.1			NEIC

Arabian Sea

Sta	Phase	Type	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:08:16.0	52.5	97.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	04:23:36.5	21.410N	70.600E	33.0N	5.5			SZGRF
2001/01/26	04:23:41.1	23.079N	69.960E	10G	5.2			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:32:59.0	52.6	98.0	1.4	70	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	04:48:15.2	22.120N	70.330E	33.0N	5.2			SZGRF
2001/01/26	04:48:13.8	23.107N	70.265E	10G	5.1			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:57:32.7	52.7	97.7	1.1	30	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	04:52:37.6	20.330N	72.960E	33.0N	4.5			SZGRF

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 05:02:16.8	56.5	97.8	1.0	5	4.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	05:59: 7.5	22.080N	70.400E	33.0N	5.0			SZGRF
2001/01/26	05:59:08.7	23.600N	70.420E	10G	4.9			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:08:25.5	52.5	97.2	1.2	21	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	06:04:54.5	22.220N	69.600E	33.0N	4.7			SZGRF
2001/01/26	06:04:53.0	23.870N	70.400E	10G	5.1			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:14:08.0	52.3	96.9	1.2	11	4.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	07:32:25.3	21.640N	70.300E	12.8	5.4			SZGRF
2001/01/26	07:32:33.3	23.455N	70.090E	33N	5.3	5.5		NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:41:45.3	52.4	97.6	1.3	57	5.4		
	e pP	Z 07:41:48.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	09:08:21.2	21.720N	70.130E	33.0N	4.9			SZGRF
2001/01/26	09:08:22.5	23.341N	70.264E	10G	4.8			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:17:39.9	52.6	97.5	1.2	15	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	12:21:17.1	19.040S	169.010E	70G	4.7			NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:40:45.8	144.6	38.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	15:10:42.9	20.060N	71.140E	33.0N	4.8			SZGRF
2001/01/26	15:10:57.7	23.223N	70.212E	10G	4.7			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:20:15.1	52.6	97.7			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/26	18:19:44.4	22.050N	70.040E	15.3	4.8			SZGRF
2001/01/26	18:19:43.9	23.568N	70.348E	10G	4.7			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:29:01.0	52.5	97.2	1.3	18	4.8		

e pP Z 18:29:05.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/27	03:49:59.1	21.770N	70.360E	33.0N	4.9			SZGRF
2001/01/27	03:50:04.7	23.479N	70.288E	33N	4.6			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:59:18.6	52.5	97.4			4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/27	04:35:57.5	21.400N	71.220E	26.1	5.2			SZGRF
2001/01/27	04:36:03.3	23.000N	70.380E	10G	4.7			NEIC

Southern India

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 04:45:23.0	52.9	97.7			5.2		
	e pP	Z 04:45:29.7							
	e sP	Z 04:45:33.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/27								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e P	Z 06:44:20.9			1.1	17	5.2		
	e pP	Z 06:44:33.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/27	23:56:44.2	5.170S	78.970W	33.0N	5.8			SZGRF
2001/01/27	23:57:02.0	4.252S	76.862W	115D	5.5			NEIC

Northern Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z 00:09:59.5	92.0	265.8	1.5	70	5.8		
CLL	i P	- Z 00:10:05.1			1.0	34	5.5		
	e pP	Z 00:10:35.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2001/01/28	01:02:16.3	22.920N	70.120E	19.9	6.3	5.0		SZGRF
2001/01/28	01:02:09.6	23.346N	70.409E	10G	5.9	5.6		NEIC

Southern India

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i P	+ Z	01:11:21.7			1.5	324	6.1		
	e pP	Z	01:11:27.5							
	e PcP	Z	01:12:33.0							
	e PP	Z	01:13:18.6							
	e S	N	01:18:54.7							
	e SS	Z	01:22:51.7							
	e L	Z	01:40:15.6			18.0	2625		5.3	
GRA1	e P	Z	01:11:28.7	52.7	97.4	1.5	658	6.3		
	e pP	Z	01:11:34.1							
	e PP	Z	01:13:31.0							
	e S	N	01:18:58.6							
	e SS	E	01:22:53.8							
	e L	Z	01:36:21.2			19.3	1370		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/28	17:15:21.2	21.510N	69.800E	33.0N	4.9			SZGRF
2001/01/28	17:15:22.5	23.071N	69.964E	10G	4.7			NEIC

Southern India

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:24:39.5	52.6	98.0	1.4	18	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/28	21:45:30.1	23.840S	178.550E	547.4				GRSN

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	i PKPbc	+ Z	22:05:24.6	150.4	27.5	0.7	23			
	e PKPab	Z	22:05:29.2							
	e pPKPbc	Z	22:07:31.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/29	09:38:30.6	20.520N	71.500E	33.0N	5.3			SZGRF
2001/01/29	09:38:43.6	23.410N	70.443E	10G	4.9			NEIC

Southern India

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1 e P Z 09:48:02.0 52.6 97.3 1.7 50 5.3

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/29

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e Pdiff	Z 23:35:48.2			1.5	21			
	e PP	Z 23:40:22.8							
	e PPP	Z 23:42:37.6							
	e SKSac	E 23:46:30.7							
	e Sdiff	N 23:48:00.0							
	e PS	Z 23:49:41.1							
	e PPS	Z 23:50:43.0							
	e SS	E 23:55:47.2							
GRA1	e L	Z 00:27:14.6				3606	18.0	6.0	
	e PP	Z 23:40:35.6							
	e SP	Z 23:49:58.7							
	e SS	N 23:56:05.4							
	e L	Z 00:28:14.9				1812	21.5	5.6	

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/29 23:54:53.7 21.850N 71.300E 33.0N 4.9
Southern India SZGRF

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:04:17.2	54.3	97.9	1.1	16	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/30 18:20: 6.1 22.700N 69.100E 33.0N 4.8
2001/01/30 18:19:56.0 23.236N 70.334E 10G 4.7
Southern India NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:29:14.8	52.7	97.5	1.3	16	4.8		

Date Origin Time Lat Long Depth mb Ms ML Source
2001/01/31 09:42:14.2 21.020N 71.000E 10.1 5.3
2001/01/31 09:42:22.2 23.312N 70.500E 10G 4.9
Southern India NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	i P	Z	09:51:40.7	52.8	97.3	1.8	54	5.3
	e pP	Z	09:51:43.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2001/01/31	19:14:55.8	4.930S	28.000E	28.7	4.9			SZGRF
2001/01/31	19:15:27.7	0.433N	29.559E	10G	5.0	4.0		NEIC

Lake Tanganyika region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:24:35.2	51.7	156.4	0.9	11	4.9		
	e pP	Z 19:24:42.7							
	e sP	Z 19:24:47.1							

Format description

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

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

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

EPICENTER LINES:

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

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

COMMENT LINE:

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

REGION LINE:

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

PHASE LINE:

Sta	Station code of the reported phase
Phase	Preceded flag for the sharpness of the onset of the phase
	e - emergent
	i - impulsive
	w - weak
	ISC phase code
	Flag for the direction of the first motion
	'+' - compression
	'-' - dilatation
	Component where the phase was picked
Time	Arrival time of the reported phase
Dist	Distance from the epicenter location with the highest priority to the station in kilometer
BAz	Backazimuth from the epicenter location with the highest priority to the station in degree
T[s]	Phase Period
A[nm]	Phase Amplitude
mb	Body wave magnitude
MS	Surface wave magnitude
ML	Local Richter magnitude