

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

SZGRF/BGR - ERLANGEN

JANUARY 2000

(Format description at the end of the Bulletin)

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/01	01:19:27.1	41.936N	20.512E	10G		4.0		NEIC				
Northwestern Balkan Peninsula												
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
WET	e Pn	Z	01:21:40.4	9.0	140.6							
	e Sg	N	01:24:30.4									
FUR	e Pn	Z	01:21:40.1	9.0	130.3							
	e L	Z	01:25:47.2			19.9	2254					
GRC1	e Pn	Z	01:21:46.8	9.5	134.9							
	e Sg	N	01:24:47.7									
BRG	e Pn	Z	01:22:10.7	10.0	150.7							
GRA1	e Pn	Z	01:21:55.1	10.1	136.7							
	e Sn	N	01:24:17.3									
MOX	e Pn	Z	01:22:06.2	10.6	141.5							
	e L	Z	01:26:30.1			15.8	650		3.7			
CLL	e Pn	Z	01:22:06.8	10.7	148.4							
BFO	e Pn	Z	01:22:02.7	10.7	122.2							
	e L	Z	01:26:40.0			19.2	1533		4.0			
TNS	e Pn	Z	01:22:18.2	11.7	130.2							
CLZ	e Pn	Z	01:22:29.9	12.1	141.2							
BUG	e Pn	Z	01:22:38.2	13.1	131.3							
	e L	Z	01:27:47.1			20.5	743		3.8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/01	05:24:44.0	36.807N	69.792E	135*	5.1			NEIC				
Hindu Kush, Afghanistan, region												
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GRA1	i P	+ Z	05:32:36.6	43.4	84.2							
	e PcP	Z	05:34:24.3									
	e L	Z	05:54:23.9			18.2	640		4.6			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/01	05:58:19.7	60.779S	153.648E	10G	5.5	5.6		NEIC

West of Macquarie Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 06:18:23.1	156.3	132.2					
	e PKPab	Z 06:18:46.8							
	e L	Z 07:46:06.2			19.1	1430		5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/01	11:22:55.9	46.819N	78.883W	10G	4.6			NEIC

Southern Ontario, Canada

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 11:32:40.2	56.3	304.6			4.8		
	i pP	- Z 11:32:45.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/01	19:30:57.8	23.217N	143.528E	33N	5.2	5.1		NEIC

Volcano Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 19:44:22.7	95.7	43.1					
	e PP	Z 19:48:15.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/02								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 03:45:23.8							
	e PKPab	Z 03:45:31.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/02	10:23:27.1				5.3			SZGRF
2000/01/02	10:23:58.6	27.482N	92.501E	33N	5.0			NEIC

Myanmar-China border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:34:33.0	64.0	77.4			5.3		
	e pP	Z 10:34:40.1							

e PP Z 10:36:53.8

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/02	12:14:39.3	17.769S	178.629W	582D	4.8			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 12:33:15.7	147.1	17.5					
	i PKPbc	- Z 12:33:19.5							
	e PKPab	Z 12:33:23.0							
	e pPKPbc	Z 12:35:36.5							
	e pPKPab	Z 12:35:45.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/02	12:58:46.1	51.250N	172.700W	50.3	5.6	5.2		SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 13:10:44.6	79.0	2.5			5.6		
	e pP	Z 13:10:59.1							
	e L	Z 13:44:42.2			20.9	1134		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/02	15:16:31.3	20.876S	174.183W	33N	5.4	5.8		NEIC

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 15:36:18.3	150.9	10.4					
	e PKPbc	Z 15:36:24.5							
	e PKPab	Z 15:36:33.4							
	e (pPKPbc)	Z 15:36:50.2							
	e L	Z 16:49:31.1			20.1	2379		6.0	
GRC1	e PKPab	Z 15:36:28.2	151.5	11.2					
GRC2	e PKPab	Z 15:36:28.4	151.7	11.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/02	17:25:30.6	51.460N	175.546W	33N	4.9	4.4		NEIC

Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 17:37:33.2	78.7	4.3			4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/03	02:38:23.2	9.654N	126.252E	33N	5.0	4.1		NEIC

Mindanao, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 02:51:59.0	98.2	64.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/03	09:51:48.7	27.060S	170.990W	33.0N				PIDC

Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:11:54.8	157.3	5.1					
	e (pPKPdf)	Z 10:12:07.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/04	00:25:12.3	2.520S	26.730E	19.6	4.9			PIDC
2000/01/04	00:25:05.2	16.202S	35.889E	10G	4.9	4.2		NEIC

Zaire

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 00:36:14.3	69.4	154.7			4.9		
	i pP	+ Z 00:36:19.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/04	02:19: 3.4	20.890S	174.020W	33.0N				PIDC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 02:38:58.1	150.9	10.1					
	e PKPab	Z 02:39:05.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/04	09:14:51.3	20.571S	177.801W	336D	5.0			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:35:33.4	150.0	17.1					

e PKPab Z 09:35:46.0

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/04	14:45:56.8	40.220N	72.920E	16.0	4.2			PIDC

Kyrgyzstan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:54:02.2	43.4	78.1			4.2		
	e pP	Z 14:54:06.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	07:02:28.8	20.808S	174.195W	33N	5.0	5.1		NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	+ Z 07:22:19.9	150.8	10.4					
	e (PKPab)	Z 07:22:31.0							
	e L	Z 08:30:44.0			19.2	406		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	07:32:19.2	20.866S	174.128W	33N	5.4			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 07:52:04.5	150.9	10.3					
	e PKPbc	Z 07:52:10.9							
	e PKPab	Z 07:52:19.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	07:40:40.8	11.324S	165.338E	33N	5.7	6.0		NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 07:59:59.7	136.1	38.1					
	e PP	Z 08:02:47.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	08:59:00.1	11.869S	166.483E	123D	5.0			NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 09:18:12.3	137.0	36.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	09:45:22.5	33.200N	93.740E	33.0N	5.0	4.6		SZGRF

Qinghai, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 09:55:31.6	60.8	71.9			5.0		
	e L	Z 10:23:29.7			19.4	467		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	12:12:07.0	11.434S	165.422E	33N	5.2	5.0		NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 12:31:29.0	136.2	38.1					
	e L	Z 13:34:49.0			20.9	262		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/05	18:26:06.9	9.150S	109.515E	33N	5.5	5.5		NEIC

South of Jawa, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 18:44:13.3	102.3	89.7					
	e L	Z 19:34:39.6			20.8	1122		5.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/06	10:42:27.1	58.131N	137.008W	14D	5.6	5.8		NEIC

Southeastern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 10:53:36.4	69.1	342.7			5.5		
	e (pP)	Z 10:53:41.1							
	e	10:54:49.9							
	e S	Z 11:02:52.2							
	e PKPPKP	Z 11:21:42.7							
	e L	Z 11:26:58.3			20.1	6331		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/06	11:19:51.1	47.183N	146.507E	369	4.8			NEIC

Northwest of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 11:31:00.2	75.7	29.6			5.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/06	20:23:32.4	14.231N	146.573E	33N	5.2	5.1		NEIC

South of Mariana Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 20:42:00.2	105.0	44.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/06	21:31:06.2	16.040N	119.566E	33N	5.9	5.9		NEIC

Luzon, Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:44:00.9	89.1	65.8			6.2		
	e PP	Z 21:47:37.0							
	e L	Z 22:26:33.8			18.2	12353		6.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/07	09:14:58.8	21.789S	176.732W	160D	4.5			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPbc	- Z 09:34:35.9	151.4	15.6					
	e PKPab	Z 09:34:44.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/07	21:45:47.3	20.807S	178.998W	598?	4.7			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 22:04:32.1	150.0	19.4					
	e PKPab	Z 22:04:40.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/08	01:19:46.7	9.894S	159.906E	33N	5.6	6.4		NEIC

Bougainville - Solomon Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 01:39:01.8	132.5	44.0					
	e (pPKPdf)	Z 01:39:20.5							
	e	01:41:07.2							
	e PP	Z 01:41:27.3							
	e (pPP)	Z 01:42:31.3							
	e L	Z 02:41:33.1			20.4	5068		6.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/08	01:56:16.0	15.006S	166.848E	33N	5.3	5.7		NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 02:15:38.5	140.0	38.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/08	02:17:30.1	40.387N	126.213W	10G	5.1			NEIC

Northern California, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:29:56.5	82.5	328.7			5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/08	06:26:30.6	11.456S	117.121E	33N	5.3	4.9		NEIC

South of Sumbawa, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 06:45:23.5	109.0	85.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/08	11:59:20.8	23.197S	69.987W	33N	5.8	5.9		NEIC

Northern Chile

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 12:13:13.4	102.1	248.3					
	e pPdiff	Z 12:13:30.6							

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e PP Z 12:17:18.9
e L Z 12:55:41.2 22.0 6863 6.1

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/08 16:47:19.7 17.017S 174.218W 183D 6.5
Tonga Islands NEIC

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKPdf Z 17:06:46.4 147.0 9.6
e PKPbc Z 17:06:48.9
e PKPab Z 17:06:52.9
e pPKPdf Z 17:07:31.8
e pPKPbc Z 17:07:33.7
e pPKPab Z 17:07:35.4
e PP Z 17:11:02.6
e L Z 18:16:17.6 21.6 9213 6.5

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/09 04:02:21.7 37.256N 141.550E 39D 5.1 4.8
Off east coast of Honshu, Japan NEIC

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 i P + Z 04:14:44.4 82.6 37.7 5.6
e pP Z 04:14:57.3
e sP Z 04:15:00.6

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/09

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKPdf Z 19:27:02.6

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/09 21:54:40.2 18.827S 174.335E 33N 5.5 6.4
Fiji Islands region NEIC

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKPdf Z 22:14:20.0 146.3 29.7
e L Z 23:17:59.5 21.9 7922 6.5

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/10	00:19:12.9	16.932S	179.465W	551D	4.7			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 00:37:53.6	146.1	18.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/10	03:07:43.0	21.756S	176.768W	174D	4.9			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 03:27:10.9	151.4	15.6					
	i PKPbc	- Z 03:27:17.8							
	e PKPab	Z 03:27:26.4							
	e pPKPbc	Z 03:28:02.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/10	16:40:42.0	27.396N	139.983E	449D	5.2			NEIC

Bonin Islands, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 16:52:57.3	90.5	43.8			6.2		
	e PP	Z 16:56:39.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/10	18:13:44.9	52.450N	23.700W	72.5	4.3	4.0		SZGRF
2000/01/10	18:12:49.5	58.272N	32.554W	10G	4.7			NEIC

North Atlantic Ocean

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 18:18:31.9	26.6	305.6			4.3		
	e (pP)	Z 18:18:47.6							
	e sP	Z 18:18:55.5							
	e L	Z 18:28:14.8			19.5	646		4.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/10	21:15:48.7	15.287S	174.569W	33N	4.6			NEIC

Tonga Islands

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	- Z	21:35:23.0	145.3	9.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/11	11:44:21.7	22.823S	175.305W	33N	4.9			NEIC
Tonga Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPab	Z	12:04:27.8	152.6	13.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/11	22:28:20.2	18.340N	123.690E	29.7				PIDC
Philippine Islands region								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:41:08.6	89.7	61.3					
	e (pP)	Z	22:41:17.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/11	23:43:57.6	40.260N	123.290E	33.0N	4.9			PIDC
2000/01/11	23:43:56.5	40.495N	122.983E	10G	4.8	4.7		NEIC
Northeastern China								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	23:55:22.9	71.8	48.0			4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/13	18:52:17.3	44.400N	150.050E	69.8	5.2			SZGRF
East of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	19:04:15.3	79.3	28.6			5.2		
	e		19:04:21.5							
	e (pP)	Z	19:04:35.0							
	e sP	Z	19:04:40.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/13	20:07:14.9	17.451S	178.826W	535D	5.3			NEIC
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 20:25:55.4	146.8	17.7					
	e PKPbc	Z 20:25:58.8							
	e PKPab	Z 20:26:00.6							
	e pPKPdf	Z 20:28:13.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/13	20:53:27.3	18.710S	177.710W	598.8G				PIDC
2000/01/13	20:53:17.5	18.587S	177.605W	500G	4.5			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 21:12:07.7	148.1	16.0					
	e PKPab	Z 21:12:11.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/13	22:45:34.5	20.380S	173.840E	33.0N				PIDC
2000/01/13	22:45:31.9	22.180S	174.880E	33N	4.9			NEIC

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:05:17.9	149.6	31.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/14	23:37:08.0	25.598N	101.099E	33N	5.6	5.9		NEIC

Yunnan, China

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:48:24.4	70.7	72.9			5.3		
	e S	Z 23:57:41.7							
	e L	Z 00:22:57.4			21.4	6537		5.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/14	03:32:42.5	15.920S	41.410E	10G	4.9	4.2		NEIC

Mozambique Channel

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:43:59.4	70.8	149.2			5.1		

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GRA1	e P	Z	22:20:21.2	70.5	71.9					5.5
	e (pP)	Z	22:20:38.0							
	e		22:21:12.9							
	e (pX)	Z	22:21:31.6							
	e L	Z	22:54:52.9			21.5	1320			5.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/14	23:17:58.4	21.140S	179.090W	681.0G				PIDC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (PKPdf)	Z	23:36:34.2	150.3	19.7					
	i PKPbc	- Z	23:36:35.6							
	e PKPab	Z	23:36:44.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/15	02:03:56.3	6.327S	148.511E	33N	5.2	5.4		NEIC

New Britain, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	02:22:52.7	123.8	54.2					
	e L	Z	03:16:33.8			22.0	473			5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/15	07:29:58.6	37.808N	142.645E	33N	4.6			NEIC

Off east coast of Honshu, Japan

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	07:42:22.2	82.6	36.7			5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/15	12:49:45.5	21.059S	179.340W	632D	5.4			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	- Z	13:08:21.2	150.2	20.1					
	i PKPbc	- Z	13:08:27.6							
	e PKPab	Z	13:08:37.2							
	e pPKPbc	Z	13:10:54.7							
	e PP	Z	13:12:07.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/16	14:18:23.6	58.000N	153.590W	46.4	5.4	4.1		SZGRF

Kodiak Island, Alaska, United States, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 14:29:40.1	71.6	351.6			5.4		
	e pP	Z 14:29:53.4							
	e sP	Z 14:29:58.7							
	e L	Z 14:59:57.7			21.0	121		4.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/16	15:00:41.1	30.167S	178.135W	33N	5.5	5.5		NEIC

Kermadec Islands, New Zealand

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 15:20:35.8	159.2	23.4					
	e PKPab	Z 15:21:14.8							
	e PP	Z 15:25:03.0							
	e L	Z 16:34:00.5			21.1	1012		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/16	23:19:43.2	11.585S	166.259E	43D	5.3	5.4		NEIC

Santa Cruz Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:38:59.6	136.7	37.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/16								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 23:42:38.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/17	12:19:55.8	6.610N	74.850W	33.0N	5.7	5.0		SZGRF

Northern Colombia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	- Z 12:32:15.2	82.4	271.3			5.7		

e S	Z	12:42:26.8									
e L	Z	13:06:54.4			20.0		733			5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/17	17:53:43.1	14.519S	177.663W	33N	4.9	4.9		NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 18:13:15.9	144.1	14.8					
	e L	Z 19:06:41.3			18.8	273		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/17	21:18:04.5	14.511S	177.656W	33N	5.6	5.8		NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 21:37:37.8	144.1	14.8					
	e L	Z 22:39:04.0			22.0	1194		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/18	01:31:35.5	14.317S	177.818W	33N	4.9	5.1		NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 01:51:08.8	143.9	15.0					
	e L	Z 02:55:37.0			19.6	415		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/18	15:19:56.6	17.230S	172.500W	33.0N				PIDC
2000/01/18	15:19:59.3	17.370S	172.840W	33N	4.7			NEIC

Tonga Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 15:39:41.5	147.5	7.2					
	e PKPab	Z 15:39:44.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/18	18:16:34.0	15.160S	177.090E	33.0N				PIDC

Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 18:36:06.3	143.6	23.4					
	e PKPab	Z 18:36:13.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/19	00:21:31.7	18.140S	178.473W	500G	4.4			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 00:40:21.7	147.5	17.3					
	e PKPab	Z 00:40:24.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/19	07:09:10.6	35.490N	71.360E	203.6	5.9	5.0		SZGRF

Pakistan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 07:17:24.5	45.2	84.6			5.9		
	e	07:17:27.1							
	e pP	Z 07:18:08.2							
	e sP	Z 07:18:31.7							
	e (PP)	Z 07:19:04.2							
	e S	Z 07:20:18.4							
	e (SS)	Z 07:23:42.9							
	e L	Z 07:39:36.9			19.3	1722		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/19	16:21:26.7			N	3.6	3.0		SZGRF
2000/01/19	16:21:30.5	34.790N	13.850E	10G	3.9			NEIC

Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:25:04.6	15.0	171.6			3.6		
	e L	Z 16:32:17.0			18.3	104		3.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/19	20:59:20.4	18.680N	102.680E	33.0N	5.1	5.3		SZGRF

Central Mediterranean Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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GRA1	e P	Z	21:11:09.2	76.8	76.6					5.1		
	e L	Z	21:48:22.5			18.3	1222				5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	00:59:23.2	28.335S	176.579W	33N	5.4	5.6		NEIC

Kermadec Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPab	Z 01:19:51.2	157.8	18.5					
	e pPKPab	Z 01:20:02.8							
	e L	Z 02:41:21.3			18.1	834		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	06:20:40.8	65.690N	7.890E	228.5	5.3	3.6		SZGRF

Norwegian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 06:24:14.9	16.1	355.0			5.3		
	i pP	- Z 06:25:08.7							
	e L	Z 07:05:46.5			21.5	380		3.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	08:04:19.9	19.350S	178.870W	268.8G				PIDC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 08:23:27.1	148.6	18.5					
	i PKPbc	- Z 08:23:30.0							
	e PKPab	Z 08:23:38.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	09:41:47.3	43.656N	127.247W	10G	5.7	5.6		NEIC

Off coast of Oregon, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:54:03.7	79.9	330.8			5.8		
	e S	Z 10:04:11.4							
	e L	Z 10:31:05.2			19.0	2851		5.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	10:51:24.1	1.640N	21.190W	33.0N	4.8			SZGRF
2000/01/20	10:51:16.1	0.442S	17.862W	10G	4.8			NEIC

Central Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 11:00:55.5	56.0	215.9			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	17:42:16.9	24.170N	121.920E	33.0N	4.8			SZGRF

Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 17:54:44.6	84.1	59.1			4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/20	20:00:35.7	50.410N	177.260E	33.0N	5.3	4.6		SZGRF

Rat Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	- Z 20:12:37.8	79.2	9.0			5.3		
	e L	Z 20:52:24.2			19.8	309		4.6	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/21	03:11:57.1	15.460N	129.340E	33.0N		5.2		PIDC
2000/01/21	03:12:00.0	13.149N	125.707E	33N	5.5	5.2		NEIC

East of Philippine Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 03:25:22.2	95.0	62.8					
	e L	Z 04:17:16.7			18.5	706		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/22	00:29:58.7	6.530S	151.850E	37.7		4.8		PIDC
2000/01/22	00:29:34.3	6.329S	152.057E	33N	5.0	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 00:48:34.7	125.6	50.6					
	e (pPKPdf)	Z 00:48:46.1							
	e L	Z 01:43:36.0			18.6	195		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/22	21:40:42.9	51.880N	176.880W	51.5	5.3			SZGRF

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 21:52:36.9	78.2	5.1			5.3		
	e pP	Z 21:52:51.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	06:08:33.5	7.880S	120.930E	101.0G		5.2		PIDC
2000/01/23	06:08:25.0	7.872S	120.739E	46D	5.7	5.2		NEIC

Flores Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 06:22:57.6	108.6	80.1					
	e PP	Z 06:27:13.0							
	e L	Z 07:19:13.3			20.4	711		5.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	07:39:57.8	29.740N	133.650E	38.8	5.1	5.7		SZGRF
2000/01/23	07:40:04.4	30.446N	130.828E	33N	5.1	5.1		NEIC

Southeast of Shikoku, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:52:32.3	83.6	49.0			5.1		
	e (pP)	Z 07:52:43.6							
	e L	Z 08:34:46.4			18.7	2879		5.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	08:03: 5.0	8.000S	120.790E	56.0G				PIDC
2000/01/23	08:03:01.5	7.865S	120.754E	45D	5.7	5.6		NEIC

Flores Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 08:21:26.3	108.6	80.0					
	e	08:21:53.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2000/01/23	08:42:35.5	57.290N	143.950W	42.7	5.9	5.1		SZGRF
2000/01/23	08:42:24.1	57.529N	149.140W	10G	5.6	4.9		NEIC

Gulf of Alaska

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	08:53:49.4	71.6	349.0			5.9		
	e		08:53:54.3							
	e		08:53:57.8							
	e pP	Z	08:54:02.0							
	e sP	Z	08:54:06.1							
	e L	Z	09:21:24.2			27.9	1526		5.1	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	09:57: 2.0	17.070S	177.050W	33.0N		5.5		PIDC
2000/01/23	09:57:04.7	16.837S	176.827W	33N	5.0	5.2		NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	10:16:46.4	146.5	14.1					
	e L	Z	11:18:51.0			22.0	798		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	10:01:19.0	3.860S	150.870E	549.8G				PIDC
2000/01/23	10:00:40.5	4.915S	150.978E	224?	4.9			NEIC

New Ireland, Papua New Guinea, region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	10:19:15.1	123.9	50.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	18:21: 5.5	24.690S	179.570E	542.4G				PIDC
2000/01/23	18:21:06.3	24.679S	179.340E	566*	5.2			NEIC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKPdf	+ Z	18:39:54.0	153.3	24.6					
	e PKPbc	Z	18:40:02.4							
	e PKPab	Z	18:40:17.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/23	22:14:45.4	17.190S	177.200W	33.0N		5.0		PIDC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:34:30.6	146.8	14.8					
	e L	Z 23:37:06.9			21.1	244		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/24	13:38:14.8	38.460N	147.620E	21.6	5.1			SZGRF
2000/01/24	13:38:26.0	39.576N	143.221E	33N	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 13:50:43.0	81.2	35.4			5.1		
	e (pP)	Z 13:50:49.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/25	11:23: 4.8	16.420S	175.400W	523.2G				PIDC
2000/01/25	11:22:01.7	15.809S	173.036W	33N	4.8	4.4		NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 11:41:40.0	145.9	7.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/25	15:04:18.6	20.855S	179.138W	633D	4.7			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 15:22:54.0	150.0	19.6					
	e PKPbc	Z 15:23:00.2							
	e PKPab	Z 15:23:09.1							
	e pPKPbc	Z 15:25:29.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/25	16:43:23.1	27.671N	92.603E	33N	5.2	4.2		NEIC

Eastern Xizang-India border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 16:53:56.6	63.9	77.2			5.7		
	e (pP)	Z 16:54:01.8							
	e	16:56:16.2							

e L Z 17:22:50.0 21.5 148 4.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/25												
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e PKPab	Z 20:38:01.9								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/26	13:26:54.2	17.268S	174.014W	73D	5.8	6.0		NEIC				
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e PKPdf	Z 13:46:30.0	147.3	9.3						
			i PKPbc	- Z 13:46:32.8								
			e L	Z 14:51:45.2			22.0	2142		5.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/26	21:37:57.9	30.958N	95.538E	33N	5.1	5.0		NEIC				
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	e P	Z 21:48:28.9	63.4	72.6			5.2			
			e L	Z 22:18:15.9			21.4	619		4.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/26	23:00:20.1	40.064N	52.922E	33N	5.4	4.8		NEIC				
		Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML	
		GRA1	i P	+ Z 23:06:34.7	30.6	92.2			5.6			
			e (pP)	Z 23:06:49.0								
			e S	Z 23:11:56.9								
			e L	Z 23:19:08.8			29.4	667		4.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source				
2000/01/27	06:51:16.2	35.419N	23.480E	10G	4.9	3.7		NEIC				

Crete, Greece

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:55:17.7	16.8	143.3			4.4		
	e L	Z 07:02:23.3			18.7	203		3.4	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/28	11:28:37.9	37.790N	141.430E	40.3	5.1			SZGRF

Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:40:55.6	82.1	37.5	1.1	18	5.1		
	e pP	Z 11:41:07.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/28	14:21: 8.8	43.240N	146.440E	57.4	6.9	7.0		SZGRF

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
RGN	e P	Z 14:32:43.7	74.4	33.5	1.2	4542	7.4		
BSEG	e P	Z 14:32:52.0	75.8	31.4	1.0	2550	7.3		
CLL	e P	Z 14:32:58.8	77.2	32.9	1.1	2284	7.2		
BRG	e P	Z 14:32:59.4	77.2	33.4	1.2	795	6.7		
CLZ	e P	Z 14:33:02.0	77.6	31.2	1.2	2696	7.2		
IBBN	e P	Z 14:33:04.0	78.0	29.5	1.1	2400	7.2		
MOX	e P	Z 14:33:04.9	78.2	31.9	1.2	809	6.6		
BUG	e P	Z 14:33:08.6	78.9	29.0	1.1	1528	6.9		
GEC2	e P	Z 14:33:08.3	79.0	33.0	1.1	362	6.3		
WET	e P	Z 14:33:10.0	79.1	32.5	1.1	1098	6.8		
GRA1	e P	Z 14:33:10.8	79.2	31.5	1.1	1776	6.9		
	e pP	Z 14:33:26.9							
	e PP	Z 14:36:10.2							
	e S	N 14:43:07.5							
	e pS	N 14:43:25.1							
	e L	Z 15:14:30.8			18.5	72797		7.0	
TNS	e P	Z 14:33:12.7	79.6	29.7	1.2	889	6.6		
FUR	e P	Z 14:33:17.2	80.5	31.4	1.1	1444	6.9		
STU	e P	Z 14:33:18.0	80.6	30.1	1.1	1272	6.9		
WLF	e P	Z 14:33:19.2	80.8	28.1	1.9	794	6.4		
BFO	e P	Z 14:33:21.4	81.3	29.5	1.2	859	6.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/28	16:39: 7.3	25.510N	124.100E	33.0N	6.6			SZGRF

Northeast of Taiwan

./2000/bul0001.txt

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	i P	- Z	16:51:24.3	82.1	58.8	1.0	226	6.2		
BSEG	i P	- Z	16:51:25.6	82.3	56.4	1.0	335	6.5		
CLL	i P	- Z	16:51:25.5	82.4	58.2	1.0	512	6.7		
GEC2	i P	- Z	16:51:29.6	83.3	58.4	1.1	224	6.3		
CLZ	i P	- Z	16:51:31.8	83.4	56.3	1.1	782	6.8		
MOX	i P	- Z	16:51:31.4	83.4	57.1	1.0	283	6.4		
WET	i P	- Z	16:51:32.3	83.6	57.8	1.5	208	6.2		
GRA1	i P	- Z	16:51:35.7	84.2	56.7	1.3	1014	6.9		
	e PP	Z	16:54:49.4							
FUR	i P	- Z	16:51:39.8	85.0	56.6	1.4	1950	7.1		
BUG	i P	- Z	16:51:40.3	85.2	53.9	1.2	1079	6.9		
TNS	i P	- Z	16:51:41.2	85.4	54.7	1.1	418	6.5		
STU	i P	- Z	16:51:43.2	85.8	55.2	1.0	767	6.8		
BFO	i P	- Z	16:51:46.4	86.5	54.5	1.4	709	6.6		

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/28

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	22:54:55.5							

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/29 05:48:13.5 20.579S 178.354W 600G 4.9
Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPdf	Z	06:06:50.2	148.0	15.5					
	e PKPbc	Z	06:06:54.6							
CLL	e PKPbc	Z	06:06:54.2	148.0	20.4					
	e PKPab	Z	06:06:58.7							
BRG	e PKPdf	Z	06:06:50.7	148.2	22.2					
	e PKPbc	Z	06:06:54.8							
	e PKPab	Z	06:06:59.7							
MOX	e PKPbc	Z	06:06:56.5	148.9	18.3					
GRA1	e PKPbc	Z	06:06:58.7	149.9	18.1					
GEC2	e PKPbc	Z	06:06:58.2	150.1	23.1					

Date Origin Time Lat Long Depth mb Ms ML Source
2000/01/31 07:26: 0.5 37.100N 88.290E 33.0N 5.8
Southern Xinjiang, China

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BRG	e P	Z	07:35:12.6	52.9	74.4	1.2	116	5.7
CLL	e P	Z	07:35:15.6	53.3	74.2	1.2	116	5.7
GEC2	e P	Z	07:35:17.5	53.6	72.8	1.4	76	5.5
BSEG	e P	Z	07:35:22.0	54.2	74.2			
MOX	e P	Z	07:35:23.4	54.3	72.8	1.4	98	5.7
CLZ	e P	Z	07:35:26.0	54.7	72.8	1.3	132	5.8
GRA1	e P	Z	07:35:28.0	54.9	71.9	1.3	150	5.9
FUR	e P	Z	07:35:31.5	55.3	70.9	2.6	994	6.4
TNS	e P	Z	07:35:38.0	56.4	70.5	1.2	65	5.5
STU	e P	Z	07:35:38.6	56.4	70.1			
BFO	e P	Z	07:35:43.4	57.1	69.3	1.6	174	5.8
WLF	e P	Z	07:35:49.8	58.0	68.7			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/01/31	07:34:06.8	35.440N	27.210E	27	4.9	4.1		NEIC

Dodecanese Islands, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pn	Z 07:38:17.3	18.4	134.7					

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