

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

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SZGRF/BGR - ERLANGEN

FEBRUARY 2000

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
2000/02/02	22:58:01.6	35.245N	58.183E	33N	5.3	5.3		NEIC

NORTHERN IRAN

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 23:04:56.0	35.2	98.9					
CLL	e P	Z 23:05:01.5	35.9	98.7					
MOX	e P	Z 23:05:08.3	36.7	96.6					
GRA1	e P	Z 23:05:09.9	36.8	95.0					
TNS	e P	Z 23:05:26.8	38.6	93.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/03	10:24:51.3	63.030N	154.700W	33.0N	5.6	4.8		SZGRF
2000/02/03	10:24:56.8	65.018N	154.411W	10G	5.5	5.1		NEIC

Central Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:35:39.6	64.7	353.3	2.1	86	5.6		
	e	10:35:44.7							
	e L	Z 11:01:47.4			21.8	577		4.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/03	13:42:28.7	12.860N	118.900E	33.0N	5.6			SZGRF
2000/02/03	13:42:24.9	13.568N	121.554E	33N	5.3	5.0		NEIC

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:55:34.1	92.3	65.8					

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Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/03	15:52:56.7	77.240N	0.500W	33.0N	6.1	4.3		SZGRF
2000/02/03	15:53:13.0	75.265N	10.126E	10G	5.5	5.0		NEIC

Greenland Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	15:58:02.1	21.3	359.9					
CLZ	e P	Z	15:58:25.0	23.4	359.8					
BUG	e P	Z	15:58:28.3	23.9	1.8					
CLL	e P	Z	15:58:28.7	24.0	358.2					
BRG	e P	Z	15:58:33.4	24.4	357.7					
MOX	e P	Z	15:58:35.8	24.6	359.1					
TNS	e P	Z	15:58:40.0	25.1	1.0					
GRA1	e P	Z	15:58:44.3	25.6	359.4	1.0	318	6.1		
	e S	N	16:03:21.9							
	e L	Z	16:08:58.3			20.4	770		4.3	
WLF	e P	Z	15:58:45.5	25.7	2.3					
WET	e P	Z	15:58:50.3	26.1	358.4					
GEC2	e P	Z	15:58:52.2	26.5	358.0					
STU	e P	Z	15:58:53.1	26.5	0.5					
BFO	e P	Z	15:58:57.3	26.9	1.0					
FUR	e P	Z	15:58:58.7	27.1	359.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/04	07:52: 2.1	54.540N	156.970E	33.0N	5.0			SZGRF
2000/02/04	07:52:27.7	53.671N	156.387E	332	4.4			NEIC

Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:03:22.3	72.6	20.8	0.9	12	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/05	04:24:22.0	48.720N	152.110E	33.0N	5.3			SZGRF
2000/02/05	04:24:21.1	47.262N	152.353E	122*	4.7			NEIC

Kuril Islands, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	i P	Z	04:35:45.4	73.8	25.8	1.0	21	5.2		
CLL	i P	+ Z	04:35:54.2	75.4	27.2	0.7	37	5.5		
BRG	i P	Z	04:35:55.1	75.6	27.7					
CLZ	i P	+ Z	04:35:56.3	75.7	25.6					
MOX	i P	Z	04:36:00.2	76.4	26.2	1.1	19	5.0		
BUG	i P	Z	04:36:02.8	76.9	23.5					
GRA1	i P	Z	04:36:06.3	77.4	25.9	0.9	32	5.5		
WET	i P	+ Z	04:36:06.3	77.4	26.9					

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TNS	i P	+ Z	04:36:07.5	77.7	24.2	0.7	22	5.4
FUR	i P	+ Z	04:36:13.6	78.8	25.8			
WLF	i P	Z	04:36:13.7	78.8	22.6			
STU	i P	Z	04:36:13.8	78.8	24.5			
BFO	i P	Z	04:36:17.1	79.4	23.9	1.0	17	5.1

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/05								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:11:31.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/06	02:52:43.1	18.073S	175.506W	261D	4.7			NEIC
TONGA ISLANDS								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLZ	e PKPdf	Z 03:11:53.3	145.9	10.0					
CLL	e PKPdf	Z 03:11:53.7	146.1	14.6					
BRG	e PKPdf	Z 03:11:54.9	146.3	16.4					
MOX	e PKPdf	Z 03:11:56.1	146.9	12.5					
TNS	e PKPdf	Z 03:11:57.9	147.7	7.0					
GRA1	e PKPdf	Z 03:11:59.2	147.9	12.1					
	e	03:12:02.3							
STU	e PKPdf	Z 03:12:01.9	149.1	8.7					
FUR	e PKPdf	Z 03:12:02.8	149.4	12.7					
BFO	e PKPdf	Z 03:12:03.1	149.6	7.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/06								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:56:41.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/06	11:33:54.0	5.900S	151.200E	33.0N		6.7		PIDC
2000/02/06	11:33:53.1	5.655S	150.878E	33N	6.6	6.8		NEIC
New Britain, Papua New Guinea, region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPdf	Z 11:52:46.0	122.1	48.3					

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BRG	e	PKPdf	Z	11:52:46.2	122.4	53.6					
CLL	e	PKPdf	Z	11:52:46.5	122.6	52.4					
CLZ	e	PKPdf	Z	11:52:48.9	123.5	49.4					
MOX	e	PKPdf	Z	11:52:48.6	123.7	51.3					
GRA1	e	PKPdf	Z	11:52:50.1	124.5	51.4					
	e			11:53:04.3							
	e	PP	Z	11:54:41.0							
	e	PS	N	12:04:36.5							
	e	L	Z	12:47:28.7			21.6	18736		6.7	
FUR	e	PKPdf	Z	11:52:51.9	125.4	52.3					
TNS	e	PKPdf	Z	11:52:52.5	125.5	48.2					
BFO	e	PKPdf	Z	11:52:54.4	126.8	49.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/06	16:00:35.4	27.850N	129.850E	33.0N	5.3			SZGRF
2000/02/06	16:00:32.9	27.761N	129.273E	33N	4.7	4.0		NEIC

Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:13:09.4	85.1	51.6	0.9	25	5.3		
	e	16:13:18.9							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/07	06:34:50.5	43.780N	147.880E	33.0N	5.4			SZGRF
2000/02/07	06:34:49.2	43.280N	147.404E	62D	5.1			NEIC

Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	i P	+ Z 06:46:33.9	76.1	30.7	1.0	54	5.6		
CLL	i P	+ Z 06:46:41.3	77.5	32.2	1.1	62	5.6		
BRG	i P	+ Z 06:46:41.6	77.5	32.8	1.4	31	5.3		
CLZ	i P	+ Z 06:46:44.2	77.9	30.5	1.1	70	5.7		
IBBN	i P	+ Z 06:46:45.9	78.3	28.8					
MOX	i P	+ Z 06:46:47.1	78.5	31.2	1.3	31	5.2		
BUG	i P	+ Z 06:46:50.6	79.2	28.4	1.2	45	5.4		
WET	i P	+ Z 06:46:52.4	79.4	31.9	1.3	43	5.3		
GRA1	i P	+ Z 06:46:52.4	79.5	30.8	1.4	72	5.4		
TNS	i P	+ Z 06:46:54.8	79.9	29.1	1.4	35	5.1		
FUR	i P	+ Z 06:46:59.7	80.8	30.7	1.4	62	5.5		
BFO	i P	+ Z 06:47:03.5	81.6	28.8	1.0	19	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/08	00:42:26.8	22.165S	175.012W	33N	4.8			NEIC

TONGA ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z 01:02:16.2	150.2	15.1					
BRG	e PKP	Z 01:02:17.0	150.5	17.0					
MOX	e PKP	Z 01:02:18.2	151.1	12.8					
GRA1	e PKP	Z 01:02:20.7	152.0	12.4					
GRB5	e PKP	Z 01:02:21.9	152.5	13.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/08	18:01:25.6	21.969S	170.133E	25D	5.1	5.1		NEIC

LOYALTY ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 18:21:04.2	145.7	41.6					
CLL	e PKP	Z 18:21:03.9	145.7	39.8					
MOX	e PKP	Z 18:21:07.4	146.8	38.3					
GRA1	e PKP	Z 18:21:10.2	147.7	38.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/09	04:28:00.2	16.632S	172.766W	33N	4.9	4.9		NEIC

SAMOA ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:47:39.1	146.8	7.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/10	01:26:32.5	28.750N	52.790E	33.0N	5.0			SZGRF
2000/02/10	01:26:20.3	28.800N	54.893E	33N	5.1	4.5		NEIC

Southern Iran

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 01:33:45.3	39.0	105.8	0.8	27	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/10	14:19: 5.9	20.950S	67.620E	33.0G	5.5			SZGRF
2000/02/10	14:18:41.1	27.660S	65.683E	10G	5.5	5.2		NEIC

Mid-Indian Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:31:45.7	91.2	133.9	1.3	49	5.5		

e 14:31:54.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/10	15:05:10.8	53.832N	160.770E	49*	4.9	4.1		NEIC

Near Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:16:40.8	73.4	18.2	0.8	30	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/10	23:01:42.8			N				SZGRF
2000/02/10	23:00:57.2	27.625S	65.759E	10G	5.6	5.2		NEIC

SOUTH INDIAN OCEAN

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 23:13:57.9	90.1	133.8	1.2	126			
GRA1	e P	Z 23:14:02.6	91.2	133.8	0.9	10			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/11								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:07:30.8			1.0	8			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/11	07:08:43.2	39.280N	140.820E	33.0N	5.5			SZGRF
2000/02/11	07:08:38.7	39.023N	140.750E	33N	5.0			NEIC

Eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 07:20:36.0	77.7	37.2					
BRG	e P	Z 07:20:41.2	78.8	39.4					
CLL	e P	Z 07:20:41.4	78.8	38.8					
CLZ	e P	Z 07:20:44.9	79.4	37.0					
MOX	e P	Z 07:20:47.2	79.9	37.7					
WET	e P	Z 07:20:51.2	80.5	38.4					
GRA1	e P	Z 07:20:52.9	80.8	37.4	0.9	43	5.5		
TNS	e P	Z 07:20:55.5	81.4	35.5					
FUR	e P	Z 07:20:58.9	82.0	37.3					
BFO	e P	Z 07:21:03.8	83.0	35.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/12								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:14:18.9			1.5	10			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/12	09:05:23.6	78.740N	6.000W	20.0	5.3			SZGRF
2000/02/12	09:05:07.8	80.082N	0.071W	10G	5.0	4.7		NEIC

Greenland Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:11:27.0	30.6	356.2	2.3	118	5.3		
	e pP	Z 09:11:32.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/12	10:39:54.7	15.765S	174.829W	226D	5.1			NEIC

TONGA ISLANDS

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
CLL	e PKP	Z 10:59:02.6	143.9	12.9					
BRG	e PKP	Z 10:59:03.7	144.2	14.5					
MOX	e PKP	Z 10:59:05.7	144.7	10.8					
TNS	e PKP	Z 10:59:08.2	145.4	5.6					
GRA1	e PKP	Z 10:59:09.3	145.7	10.4					
	e	11:00:07.1							
WET	e PKP	Z 10:59:10.0	146.0	13.4					
FUR	e PKP	Z 10:59:13.4	147.2	10.9					
BFO	e PKP	Z 10:59:13.4	147.3	5.6					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/12	16:29:20.6	6.507S	154.977E	33N	5.7	5.7		NEIC

SOLOMON ISLANDS

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:48:22.8	127.2	47.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/12	20:32:26.9			N				SZGRF

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2000/02/12 20:34:08.5
SOUTHERN ITALY

39.777N 15.546E 288 4.4 NEIC

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e P	Z 20:36:14.7	8.9	158.4					
WET	e P	Z 20:36:21.5	9.6	167.6					
BFO	e P	Z 20:36:27.5	10.0	146.2					
GRA1	e P	Z 20:36:32.3	10.4	161.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/13	02:56:11.2	41.180N	132.850E	33.0N	6.0			SZGRF
2000/02/13	02:57:08.7	42.846N	131.568E	514D	5.5			NEIC

Sea of Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	i P	- Z 03:07:37.2	71.0	41.5	0.9	206	6.2		
BRG	i P	- Z 03:07:41.4	71.8	43.2	0.7	76	5.8		
CLL	i P	- Z 03:07:41.6	71.8	42.7	0.7	154	6.2		
CLZ	i P	- Z 03:07:46.2	72.5	41.1	0.8	124	6.0		
MOX	i P	- Z 03:07:48.3	72.9	41.6	1.0	66	5.6		
WET	i P	- Z 03:07:51.8	73.5	42.1	0.9	77	5.8		
GRA1	i P	- Z 03:07:53.9	73.8	41.2	1.0	298	6.4		
	e	03:07:56.4							
TNS	i P	- Z 03:07:57.4	74.6	39.6	1.0	66	5.7		
FUR	i P	- Z 03:07:59.9	74.9	41.0	1.0	195	6.2		
BFO	i P	- Z 03:08:06.0	76.1	39.2	1.1	195	6.1		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/13	18:19:42.0	5.699N	127.109E	140	5.8			NEIC

South China Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z 18:33:20.4	101.8	66.2					
	e PP	Z 18:37:27.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/14	06:57: 6.3	42.740N	30.120E	33.0N		4.2		SZGRF
2000/02/14	06:56:34.5	40.970N	31.763E	10G	4.8			NEIC

Black Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:00:33.5	16.8	113.5	1.7	140			
	e L	Z 07:08:17.6			18.2	1721		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/14	13:40:5.0	51.750N	160.650E	33.0N	5.3			SZGRF
2000/02/14	13:39:56.3	48.839N	155.387E	61D	4.8			NEIC

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:51:45.2	76.8	23.3	0.9	22	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/15	02:04:34.4	21.530N	140.580E	33.0G	5.9			SZGRF
2000/02/15	02:05:00.8	17.678N	145.433E	522D	5.9			NEIC

West of Mariana Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 02:17:45.1	98.7	42.9	0.9	85	6.1		
BRG	e P	Z 02:17:48.0	99.4	46.3	1.7	82	5.8		
CLL	e P	Z 02:17:48.3	99.5	45.5	1.4	94	6.0		
CLZ	e P	Z 02:17:52.4	100.2	43.2	1.0	50	5.9		
MOX	e P	Z 02:17:53.2	100.6	44.4	1.5	61	5.7		
GEC2	e P	Z 02:17:53.4	100.9	46.4					
GRA1	e P	Z 02:17:57.7	101.4	44.2	2.0	187	6.2		
	e PP	Z 02:22:13.6							
TNS	e P	Z 02:18:01.3	102.3	41.7	1.3	42	5.7		
FUR	e P	Z 02:18:02.5	102.5	44.4	1.1	64	6.1		
BFO	e P	Z 02:18:06.8	103.7	41.9	1.8	71	6.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/15	21:33:12.0	23.370N	124.360E	33.0N				SZGRF
2000/02/15	21:33:19.0	23.311N	120.941E	33N	5.4	4.9		NEIC

Southwestern Ryukyu Islands, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z 21:45:49.7	84.2	60.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/16	11:52:16.4	37.470N	144.860E	21.8	5.7			SZGRF
2000/02/16	11:52:14.0	37.432N	145.137E	33N	5.4	4.8		NEIC

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
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BSEG	e P	Z	12:04:27.4	80.7	34.8	1.0	44	5.5
BRG	e P	Z	12:04:33.2	81.9	37.1	0.9	33	5.4
CLL	e P	Z	12:04:32.9	81.9	36.5	0.9	59	5.7
CLZ	e P	Z	12:04:36.3	82.4	34.7	1.0	46	5.7
MOX	e P	Z	12:04:38.5	82.9	35.5	1.1	24	5.4
WET	e P	Z	12:04:42.5	83.7	36.3	1.3	39	5.5
GRA1	e P	Z	12:04:43.9	83.8	35.1	1.9	195	6.0
	e pP	Z	12:04:50.3					
TNS	e P	Z	12:04:46.4	84.4	33.2	1.3	62	5.7
FUR	e P	Z	12:04:50.0	85.1	35.1	0.8	117	6.2
BFO	e P	Z	12:04:54.4	86.0	33.0	0.9	59	5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/17	22:00:26.3	4.840S	153.380E	33N	5.1			NEIC
NEW IRELAND REGION, P.h								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKP	Z	22:19:21.2	122.5	45.2					
BRG	e PKP	Z	22:19:21.8	122.9	50.5					
CLL	e PKP	Z	22:19:21.6	123.1	49.3					
CLZ	e PKP	Z	22:19:23.8	123.9	46.3					
WET	e PKP	Z	22:19:24.6	124.5	50.3					
GRA1	e PKP	Z	22:19:26.0	125.0	48.3					
GRB5	e PKP	Z	22:19:26.3	125.1	49.0					
TNS	e PKP	Z	22:19:28.0	125.9	45.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/18	08:06:15.0	16.555N	46.576W	10G	5.5	5.4		NEIC
NORTHERN MID-ATLANTIC RIDGE								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	08:16:01.7			1.9	114			
	e L	Z	08:37:08.4			21.0	994			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/19	04:49:25.8	44.350N	151.150E	33.0N	5.4	4.7		SZGRF
2000/02/19	04:49:25.3	44.279N	149.427E	33N	5.2	4.6		NEIC
East of Kuril Islands, Russia								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z	05:01:30.6	79.2	29.1	1.5	74	5.4		
	e L	Z	05:40:48.5			18.5	318		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/19	05:23:30.2	46.100N	154.000E	33.0N		5.0		SZGRF
2000/02/19	05:23:26.0	44.463N	149.374E	33N	5.1	4.9		NEIC

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 05:35:30.7	79.0	29.0	0.8	26			
	e L	Z 06:14:57.7			19.5	746		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/19	06:06: 9.1	44.780N	151.170E	33.0N	5.4			SZGRF
2000/02/19	06:06:07.9	44.145N	149.460E	51D	5.2			NEIC

East of Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 06:18:11.8	79.3	29.1	1.3	64	5.4		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/19	13:55:44.3	44.230N	11.920E	10.0G			3.9	SZGRF
2000/02/19	13:55:45.6	44.375N	11.677E	10G	3.8			NEIC

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRC2	e Pn	Z 13:56:55.1	4.5	177.3					
BFO	e Pn	Z 13:56:56.8	4.6	148.5					3.8
GEC2	e Pn	Z 13:56:56.0	4.7	198.0					
GRB5	e Pn	Z 13:56:57.0	4.7	180.0					
WET	e Pn	Z 13:56:58.9	4.8	190.2					3.8
GRB4	e Pn	Z 13:57:02.7	5.1	179.1					
GRA1	e Pn	Z 13:57:05.8	5.3	176.5					4.1
MOX	e Pn	Z 13:57:19.0	6.3	179.6					
BRG	e Pn	Z 13:57:23.9	6.7	194.1					
CLL	e Pn	Z 13:57:28.7	7.0	187.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/19	19:31:42.4	51.990N	162.500E	33.0N	5.5	5.0		SZGRF
2000/02/19	19:31:37.1	49.642N	155.848E	48D	5.4	4.8		NEIC

Off east coast of Kamchatka Peninsula, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	+ Z 19:43:23.4	76.1	22.7	0.9	41	5.5		

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i PKP	- Z 19:16:19.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/21	00:36:21.6	6.319S	154.726E	54D	5.7	5.3		NEIC

SOLOMON ISLANDS

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:55:20.7	126.9	47.7					
	e	00:55:37.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/21	01:41:27.2	4.725S	153.272E	33N	5.4	4.5		NEIC

NEW IRELAND REGION, P.

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 02:00:25.6	124.8	48.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/21	23:59:46.1	27.935S	179.111W	33N	5.2	5.6		NEIC

KERMADEC ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 00:20:08.3	156.9	23.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/22								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e (P)	Z 02:55:30.1			1.8	36			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/22	11:55:25.2	34.840N	26.360E	33.0N	5.6	4.4		SZGRF
2000/02/22	11:55:26.3	34.634N	25.506E	33N	5.1	4.9		NEIC

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 11:59:17.7	16.7	144.1					
FUR	e P	Z 11:59:26.7	17.2	136.8	1.1	369	5.4		

WET	e P	Z	11:59:26.0	17.2	142.6						
GRC1	e P	Z	11:59:30.9	17.7	139.1						
GRB1	e P	Z	11:59:35.8	17.9	140.2	1.3	377	5.4			
BRG	e P	Z	11:59:38.1	18.3	148.3						
GRFO	e P	Z	11:59:39.2	18.3	139.8	2.4	1114	5.7			
GRA1	e P	Z	11:59:39.5	18.3	139.8	2.4	1229	5.7			
	e S	E	12:03:16.1								
	e L	Z	12:08:13.7			19.5	2029	4.4			
STU	e P	Z	11:59:43.0	18.6	133.5	2.4	1453	5.8			
BFO	e P	Z	11:59:44.6	18.7	130.7	1.0	100	5.0			
MOX	e P	Z	11:59:46.2	18.9	142.5						
CLL	e P	Z	11:59:45.9	19.0	146.7						
TNS	e P	Z	11:59:56.9	19.9	134.9	1.1	326	5.5			
CLZ	e P	Z	12:00:01.4	20.3	141.8						
WLF	e P	Z	12:00:06.2	20.7	129.4	2.3	1277	5.8			
BUG	e P	Z	12:00:12.9	21.3	134.9	1.1	453	5.8			
IBBN	e P	Z	12:00:16.9	21.7	137.4	1.0	247	5.6			
BSEG	e P	Z	12:00:18.2	22.0	144.9						

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/23	19:20:10.2	16.170N	63.750W	33.0N	5.1			SZGRF
2000/02/23	19:20:27.3	17.505N	60.801W	36*	4.9	5.2		NEIC

Leeward Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:31:07.0	65.2	268.1	1.3	16	5.1		
	e	19:31:18.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPbc	Z 23:27:04.7							
BRG	e PKPbc	Z 23:26:56.9							
	e PKPab	Z 23:27:02.7							
BSEG	e PKPbc	Z 23:26:50.6							
CLL	e PKPbc	Z 23:26:55.9							
	e PKPab	Z 23:27:01.7							
CLZ	e PKPbc	Z 23:26:56.3							
FUR	e PKPab	Z 23:27:16.3							
GEC2	e PKPbc	Z 23:27:00.4							
GRA1	e PKPbc	Z 23:27:00.5							
	e PKPab	Z 23:27:09.8							
GRB5	e PKPbc	Z 23:27:02.0							
MOX	e PKPbc	Z 23:26:58.8							

TNS e PKPbc Z 23:27:00.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/24	13:32:28.4	51.750N	175.910W	33.0N	5.2			SZGRF
2000/02/24	13:32:23.7	51.323N	178.445W	33N	5.2	4.2		NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 13:44:26.0	78.6	6.1	1.0	23	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/24	15:27:08.0	20.094S	177.985W	552D	4.8			NEIC

FIJI ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 15:45:46.0	145.6	13.9					
CLZ	e PKPbc	Z 15:45:51.9	147.6	14.8					
CLL	e PKPdf	Z 15:45:47.7	147.6	19.5					
	e PKPbc	Z 15:45:51.8							
BRG	e PKPdf	Z 15:45:48.2	147.8	21.4					
	e PKPbc	Z 15:45:52.4							
BUG	e PKPbc	Z 15:45:53.1	148.4	9.4					
MOX	e PKPdf	Z 15:45:49.2	148.5	17.5					
TNS	e PKPbc	Z 15:45:56.3	149.4	11.9					
GRA1	e PKPbc	Z 15:45:56.7	149.5	17.2					
WET	e PKPbc	Z 15:45:56.7	149.7	20.5					
GEC2	e PKPbc	Z 15:45:56.1	149.8	22.2					
STU	e PKPbc	Z 15:45:59.5	150.7	13.9					
FUR	e PKPbc	Z 15:45:59.5	151.0	18.1					
BFO	e PKPbc	Z 15:46:00.4	151.3	12.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/25	01:43:59.2	19.574S	173.828E	33N	6.2	7.1		NEIC

Vanuatu Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKPdf	Z 02:03:32.9							
BSEG	e PKPdf	Z 02:03:28.4							
CLL	e PKPdf	Z 02:03:32.6							
CLZ	e PKPdf	Z 02:03:34.1							
FUR	e PKPdf	Z 02:03:38.8							
GRA1	e PKPdf	Z 02:03:36.4							
	e SKKSac	N 02:13:46.1							

	e SS	E	02:26:11.0									
	e L	Z	03:07:28.3		21.8	72512		7.4				
MOX	e PKPdf	Z	02:03:35.0									
TNS	e PKPdf	Z	02:03:37.7									
WET	e PKPdf	Z	02:03:36.7									

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/25								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 05:27:55.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/25	06:12:49.2	25.130N	123.650E	33.0N	5.6			SZGRF
2000/02/25	06:13:00.9	25.382N	123.747E	150D	5.2			NEIC

Northeast of Taiwan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 06:25:17.9			0.8	34	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/25	13:54:12.0	20.083S	174.324E	33N	5.0	5.3		NEIC

VANUATU ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 14:13:48.7							
CLL	e PKP	Z 14:13:48.6							
GRA1	e PKP	Z 14:13:56.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/25	14:16:00.6	19.934S	174.016E	33N	5.4	5.1		NEIC

VANUATU ISLANDS REGION

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e PKP	Z 14:35:36.6							
CLL	e PKP	Z 14:35:36.2							
CLZ	e PKP	Z 14:35:37.6							
GRA1	e PKP	Z 14:35:42.5							
MOX	e PKP	Z 14:35:39.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/26	08:18:32.2	36.560N	45.530E	33.0N	5.2			SZGRF
2000/02/27	02:22:11.8	60.176N	145.960W	8	5.0	4.4		NEIC
2000/02/26	08:18:34.6	37.300N	44.812E	10G	4.7			NEIC

Iran-Iraq border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:24:19.8			1.9	82	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/26	08:11:47.3	13.833N	144.744E	122	6.1			NEIC

Mariana Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 08:25:41.2							
	e PP	Z 08:29:53.1							
	e	08:30:31.5							
	e SP	Z 08:38:44.8							
	e L	Z 09:16:06.5			19.3	2829		5.8	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/26	13:37: 9.1	54.570N	161.440W	33.0N	5.0			SZGRF
2000/02/26	13:37:07.0	54.598N	161.716W	53	4.7			NEIC

Alaska Peninsula, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z 13:48:50.9			0.8	10	5.0		
	e	13:49:00.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/26	18:24:41.8	9.650N	77.620W	66.4	5.9	5.6		SZGRF
2000/02/26	18:24:40.2	9.492N	78.642W	65G	5.7			NEIC

Near north coast of Colombia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 18:36:48.7			1.2	77	5.5		
BRG	e P	Z 18:37:06.7			1.3	166	6.1		
BSEG	e P	Z 18:36:52.8			1.3	106	5.7		
CLL	e P	Z 18:37:03.2			1.2	149	6.1		
CLZ	e P	Z 18:36:54.3			1.2	178	6.0		
GRA1	e P	Z 18:36:58.5			1.3	153	6.0		
	e pP	Z 18:37:16.7							

	e S	E	18:47:12.0							
	e SS	E	18:52:29.9							
	e L	Z	19:08:37.9	22.0	2670			5.6		
MOX	e P	Z	18:36:59.3	1.3	106			5.8		
TNS	e P	Z	18:36:48.6	1.3	213			5.9		
WET	e P	Z	18:37:04.1	1.3	201			6.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/27	02:22:22.4	61.040N	146.600W	15.6	5.2			SZGRF

Southern Alaska, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z 02:33:17.7	67.8	348.6	0.8	13	5.2		
	e pP	Z 02:33:22.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/27	16:10:47.1	8.160N	82.090W	33.0N	5.7			SZGRF
2000/02/27	16:10:41.7	7.912N	82.882W	33N	5.4	4.7		NEIC

Panama-Costa Rica border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	i P	Z 16:23:14.7			1.1	29	5.4		
BRG	i P	Z 16:23:31.1			1.7	97	5.9		
BSEG	i P	Z 16:23:17.9			1.3	38	5.5		
CLL	i P	Z 16:23:27.7			1.7	155	5.9		
CLZ	i P	Z 16:23:19.9			1.1	56	5.7		
FUR	i P	Z 16:23:24.7			1.9	121	5.7		
GRA1	i P	Z 16:23:24.1			0.9	36	5.5		
MOX	i P	Z 16:23:23.9			1.1	33	5.4		
TNS	i P	Z 16:23:14.5			1.7	103	5.8		
WET	i P	Z 16:23:29.5			1.5	117	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/27	17:21:31.8	23.060N	92.950E	69.9	5.5			SZGRF
2000/02/27	17:21:27.2	23.050N	94.176E	67D	5.1			NEIC

India-Bangladesh border region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	e P	Z 17:32:11.5			1.3	43	5.5		
BSEG	e P	Z 17:32:22.6			0.9	48	5.7		
CLL	e P	Z 17:32:14.6			1.1	26	5.4		
CLZ	e P	Z 17:32:24.4			1.2	48	5.6		
FUR	e P	Z 17:32:25.0			1.5	70	5.7		

GRA1	e P	Z	17:32:24.3	0.9	20	5.3
	e pP	Z	17:32:42.8			
MOX	e P	Z	17:32:20.9	1.1	35	5.5
TNS	e P	Z	17:32:34.0	1.0	33	5.5
WET	e P	Z	17:32:17.5	1.0	23	5.4

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/28	04:24:40.0	36.050N	25.620E	33.0N	4.4			SZGRF
2000/02/28	04:24:40.5	36.213N	26.604E	132	4.4			NEIC

Dodecanese Islands, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e P	Z 04:28:44.2			0.7	12	4.1		
BRG	e P	Z 04:28:35.4							
CLL	e P	Z 04:28:41.7							
FUR	e P	Z 04:28:24.6			0.7	35	4.6		
GRA1	e P	Z 04:28:38.1			0.9	20	4.3		
TNS	e P	Z 04:28:55.4			0.7	19	4.5		
WET	e P	Z 04:28:24.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/28	09:45:08.1	21.745S	175.322W	33N	5.5	5.3		NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 10:05:00.6							
	e PKPbc	Z 10:05:10.6							
	e L	Z 11:16:07.6			20.7	468		5.3	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/28	22:15:26.9	17.295S	179.217W	541D	4.7			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 22:34:14.2							
BSEG	e PKP	Z 22:33:56.5							
CLL	e PKP	Z 22:34:03.6							
CLZ	e PKP	Z 22:34:03.4							
FUR	e PKP	Z 22:34:13.2							
GRA1	e PKP	Z 22:34:09.7							
MOX	e PKP	Z 22:34:06.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/28	22:15:20.1	17.498S	179.042W	538D	4.7			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKP	Z 22:34:08.5							
BSEG	e PKP	Z 22:33:51.4							
FUR	e PKP	Z 22:34:07.5							
GRA1	e PKP	Z 22:34:04.2							
MOX	e PKP	Z 22:34:00.9							
TNS	e PKP	Z 22:34:03.7							
WET	e PKP	Z 22:34:04.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/29								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 04:54:42.8							
	e	04:54:51.1							
	e L	Z 05:51:46.1			21.8	978			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/29	18:17:07.4	17.884S	168.273E	200G	4.7			NEIC

VANUATU ISLANDS

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:36:16.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/02/29	22:44:58.3	18.070S	169.022E	33N	5.5	5.9		NEIC

VANUATU ISLANDS

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 23:04:28.9							
	e L	Z 00:11:43.2			20.9	1834			

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