

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)

APRIL 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
2000/04/01	09:10:50.5	7.557S	13.471W	10G	4.6			NEIC
Ascension Island region								
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb MS ML
GRA1	e P	Z	09:21:05.8	61.2	208.2	1.5	19	
	e P	Z	09:21:05.8					
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01								
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb MS ML
BSEG	e PKPbc1	Z	12:29:11.0			1.0	18	
	i PKPbc2	+ Z	12:29:15.6			1.0	158	
	e PKPbc3	Z	12:29:23.0			0.9	49	
CLL	e PKPbc1	Z	12:29:17.4			1.0	20	
	i PKPbc2	+ Z	12:29:22.2			0.9	180	
	e PKPbc3	Z	12:29:29.5			0.9	56	
FUR	e PKPbc2	Z	12:29:31.1			0.9	146	
	e PKPab2	Z	12:29:37.3					
TNS	e PKPbc1	Z	12:29:22.5			0.8	9	
	i PKPbc2	+ Z	12:29:27.4			0.7	72	
	e PKPab2	Z	12:29:31.0					
	e PKPbc3	Z	12:29:34.6			0.7	23	
Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	12:10:44.1	17.866S	178.750W	600G	4.1			NEIC
Fiji Islands								
Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb MS ML

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BSEG	e PKPdf	Z	12:29:10.9	143.3	14.5
	e PKPbc	Z	12:29:15.5		
CLZ	e PKPdf	Z	12:29:17.8	145.3	15.4
	e PKPbc	Z	12:29:22.3		
CLL	e PKPdf	Z	12:29:17.4	145.3	19.9
	e PKPbc	Z	12:29:22.0		
BRG	e PKPdf	Z	12:29:18.2	145.5	21.7
	e PKPbc	Z	12:29:22.8		
MOX	e PKPbc	Z	12:29:24.6	146.2	17.9
TNS	e PKPbc	Z	12:29:27.3	147.1	12.7
GRA1	e PKPdf	Z	12:29:23.8	147.2	17.7
	e PKPbc	Z	12:29:27.5		
FUR	e PKPbc	Z	12:29:31.0	148.6	18.6
BFO	e PKPbc	Z	12:29:31.8	149.0	13.2

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	12:13:27.3	17.753S	178.906W	600G	5.2			NEIC

Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 12:32:06.3	147.0	17.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	12:14:52.6	17.790S	178.625W	600G	4.8			NEIC

Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPbc	Z 12:33:30.8	147.1	17.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	16:26:25.7	17.640S	178.861W	560G	4.4			NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:45:07.4	146.9	17.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	18:08: 3.4	42.510N	11.870E	33.0G			4.0	SZGRF
2000/04/01	18:08:04.2	42.893N	11.738E	10G	4.5	3.4		NEIC

Central Italy

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Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 18:09:33.8	5.9	155.1					4.1
	e Sn	N 18:10:41.9							
GEC2	e Pn	Z 18:09:34.7	6.1	193.6					3.8
	e Sn	N 18:10:46.2							
WET	e Pn	Z 18:09:38.5	6.3	187.6					4.0
	e Sn	N 18:10:50.3							
TNS	e Pn	Z 18:09:58.3	7.7	161.6					
MOX	e Pn	Z 18:09:58.7	7.8	179.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	22:33:15.1	34.652N	23.574E	33N	4.2			NEIC

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pn	Z 22:37:18.7	17.6	144.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/01	23:19:34.2			N	4.2			SZGRF

Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 23:24:42.7			0.7	6	4.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/02	03:20:55.2	13.160S	167.219E	200G	4.6			NEIC

Vanuatu Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 03:40:17.7	138.5	36.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/02	05:57:23.9	15.889S	174.121W	104D	5.0	4.7		NEIC

Fiji Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 06:16:53.5	145.9	9.2					
	e pPKP	Z 06:17:23.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/02	11:41: 5.7			N				SZGRF
2000/04/02	11:41:28.9	37.605N	37.153E	33N	4.5	3.7		NEIC

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:46:22.7	22.1	113.2					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/02	12:25:33.1	33.100N	132.420E	152.3	5.4			GRSN
2000/04/02	12:25:19.5	32.470N	131.540E	33.0N	5.4			SZGRF
2000/04/02	12:25:31.5	32.465N	130.925E	151D	4.8			NEIC

Kyushu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 12:37:24.1	79.6	47.6	1.1	22	5.0		
BRG	e P	Z 12:37:26.4	79.9	49.8	0.9	15	4.9		
CLL	i P	+ Z 12:37:27.0	80.3	47.8	1.0	60	5.6		
	e pP	Z 12:38:05.1			1.1	26			
CLZ	e P	Z 12:37:32.1	81.0	47.4	1.0	43	5.5		
MOX	e P	Z 12:37:33.0	81.2	48.1	1.0	15	5.1		
WET	e P	Z 12:37:35.3	81.6	48.8	1.0	11	4.9		
GRA1	e P	Z 12:37:38.2	82.0	47.7	1.1	79	5.9		
TNS	e P	Z 12:37:42.5	83.0	45.8	0.9	28	5.5		
FUR	e P	Z 12:37:43.0	83.0	47.6	0.8	82	6.0		
BFO	e P	Z 12:37:49.1	84.3	45.6	1.1	50	5.6		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/02	18:57:26.6			N				SZGRF
2000/04/02	18:57:37.8	40.949N	30.431E	10G	4.6	3.6		NEIC

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:01:29.9	16.0	115.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/03	08:55:00.0	0.333N	122.025E	187D	5.6			NEIC

Minahassa Peninsula, Sulawesi, Indonesia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 09:08:39.2	103.0	73.6					

e PP Z 09:13:01.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/03								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:05:04.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/03	15:19:58.5	4.097N	125.519E	119D	5.9			NEIC
Talau Islands, Indonesia								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 15:33:41.8	102.2	68.4					
	e PP	Z 15:37:55.9							
	e L	Z 16:22:25.3			21.5	1356		5.4	
CLL	e Pdiff	Z 15:33:34.1			1.9	105			
	e pPdiff	Z 15:34:20.4							
	e PP	Z 15:37:45.8							
	e pPP	Z 15:38:26.9							
	e SKSac	Z 15:43:59.6							
	e Sdiff	N 15:45:00.2							
	e sSdiff	N 15:45:56.0							
	e PS	Z 15:46:51.8							
	e SS	N 15:52:18.8							
	e L	Z 16:24:59.4			20.0	1680		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/05	04:36:52.6	34.170N	26.580E	33.0G	5.5	5.3		SZGRF
2000/04/05	04:36:56.3	34.317N	25.865E	33N	5.3	5.4		NEIC
Crete, Greece								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z 04:40:54.5	17.1	143.7	0.9	53	4.6		
FUR	e P	Z 04:41:01.2	17.6	136.5	2.4	1976	5.8		
WET	e P	Z 04:41:01.1	17.7	142.3	2.2	552	5.3		
BRG	e P	Z 04:41:12.0	18.7	147.8	2.2	286	5.1		
GRA1	e P	Z 04:41:14.1	18.8	139.5	1.7	502	5.5		
	e	04:41:18.8							
	e S	Z 04:44:36.2							
	e L	E 04:48:02.4			20.8	16629		5.3	

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2000/04/06 07:01:18.2 52.022N 170.474W 36* 4.5 4.4 NEIC
Fox Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 07:13:19.8	78.3	1.1	1.7	31			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/06	14:34:47.6			N				SZGRF
2000/04/06	14:34:24.6	12.460N	47.473E	10G	5.0	4.4		NEIC

Eastern Gulf of Aden

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 14:43:05.8	47.6	128.6	0.6	13			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/06	22:28:11.0	5.920S	77.390E	33.0N	5.0			SZGRF

Chagos Archipelago region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:40:15.1	79.6	112.3	2.0	34	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/07	11:02: 8.6	30.830N	143.570E	33.0N	5.3			SZGRF
2000/04/07	11:02:55.6	30.541N	138.491E	394*	4.3			NEIC

Southeast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 11:15:00.8	87.1	43.3	0.6	13	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/07	16:43:20.6	50.680N	165.740W	33.0N	5.3			SZGRF
2000/04/07	16:43:22.8	51.830N	170.509W	33N	4.9	4.8		NEIC

South of Aleutian Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:55:24.9	78.5	1.1	2.0	82	5.3		
	e	16:55:36.7							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2000/04/07	16:46:21.0	50.710N	165.210W	33.0N	5.3				SZGRF
2000/04/07	16:46:23.4	51.885N	170.521W	33N	4.9				NEIC

South of Aleutian Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 16:58:25.0	78.4	1.1	2.0	85	5.3		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/07	18:42:23.4	18.259S	175.332W	207D	5.3			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z 19:01:43.2	148.1	11.8					
	e PKPbc	Z 19:01:47.2							
	e L	Z 19:52:50.5			21.8	791		5.5	
CLL	e PKPdf	Z 19:01:40.0	146.1	12.6					
	i PKPbc	- Z 19:01:41.8			0.9	510			
	e pPKPbc	Z 19:02:35.2							
	e SKP	Z 19:05:01.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/07	19:08:32.5	17.820S	66.600E	33.0N				SZGRF
2000/04/07	19:08:28.9	18.115S	65.505E	10G	5.5	5.9		NEIC

Mauritius - Reunion region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:20:56.4	83.0	129.0					
CLL	e P	Z 19:20:57.7			2.2	67	5.5		
	e SKSac	Z 19:31:06.9							
	e S	N 19:31:14.2			22.9	2686			
	e L	Z 19:57:42.5			20.0	2064		5.5	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/08								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 18:53:23.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2000/04/08 20:50:14.9 49.636N 155.905E 33N 4.9 3.9 NEIC
Kuril Islands, Russia

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:02:04.0	76.2	22.7	0.8	9	5.0		

Date Origin Time Lat Long Depth mb Ms ML Source
2000/04/08 22:42:58.5 69.330N 15.660W 33.0N 4.3 SZGRF
Jan Mayen Island region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 22:48:05.8	23.5	336.4	0.8	8	4.3		

Date Origin Time Lat Long Depth mb Ms ML Source
2000/04/09 10:37:17.0 34.278N 25.508E 33N 4.1 NEIC
Crete, Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:41:35.2	18.6	140.4	1.4	32	4.4		
	e L	Z 10:50:25.6			19.7	103		3.1	

Date Origin Time Lat Long Depth mb Ms ML Source
2000/04/09 21:30:37.4 36.200N 140.060E 33.0N 5.2 SZGRF
2000/04/09 21:30:37.8 36.474N 139.813E 49D 4.8 4.1 NEIC
Near east coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 21:42:43.8	79.7	39.1	0.9	16	4.9		
BRG	e P	Z 21:42:48.4	80.6	41.3	0.8	9	4.8		
CLL	e P	Z 21:42:48.7	80.6	40.7	0.8	20	5.2		
	e pP	Z 21:43:03.0							
CLZ	e P	Z 21:42:52.3	81.3	38.9	0.9	16	5.2		
MOX	e P	Z 21:42:54.4	81.7	39.7	0.8	7	4.9		
WET	e P	Z 21:42:58.2	82.3	40.4	2.4	43	5.3		
GRA1	e P	Z 21:42:59.4	82.6	39.3	0.9	27	5.5		
TNS	e P	Z 21:43:02.9	83.3	37.4	1.6	24	5.2		
FUR	e P	Z 21:43:05.2	83.8	39.3	0.7	27	5.6		
BFO	e P	Z 21:43:10.4	84.8	37.2	0.9	16	5.2		

Date Origin Time Lat Long Depth mb Ms ML Source

2000/04/10 06:42:27.6 55.270N 163.790E 31.7 5.3 5.2 GRSN
Off east coast of Kamchatka Peninsula, Russia

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	06:54:10.6			1.5	51	5.4		
	e L	Z	07:28:17.6			21.4	977		5.1	
BSEG	i P	+ Z	06:53:46.8	68.6	15.9	1.1	28	5.4		
	e pP	Z	06:53:55.7			1.2	22			
	e L	Z	07:29:27.2			18.0	1477		5.3	
CLL	i P	+ Z	06:53:58.6	70.7	17.1	1.2	38	5.4		
	i pP	Z	06:54:07.9			1.3	37			
	e S	E	07:03:15.1			18.5	402			
MOX	e L	Z	07:28:34.9			18.0	1389		5.3	
	i P	+ Z	06:54:04.5	71.6	16.3	1.1	23	5.2		
	i pP	Z	06:54:13.4			1.2	17			
	e S	E	07:03:28.2			18.1	412			
WET	e L	Z	07:28:30.7			18.0	1029		5.1	
	i P	+ Z	06:54:12.0	72.8	16.9	1.2	30	5.3		
	i pP	Z	06:54:20.9			1.6	42			
	e S	E	07:03:43.1			18.0	388			
	e L	Z	07:29:47.6			20.0	1282		5.2	

Date Origin Time Lat Long Depth mb Ms ML Source
2000/04/10 21:02:37.7 15.690N 70.020W 33.0N 4.9
Caribbean Sea SZGRF

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	21:14:01.4	72.5	273.8	1.4	14	4.9		

Date Origin Time Lat Long Depth mb Ms ML Source
2000/04/11 06:41:26.4 27.884S 178.402W 201D 5.5
Kermadec Islands region NEIC

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	07:00:57.8	157.0	22.2					
	e PKPab	Z	07:01:29.9							
CLL	e PKPdf	Z	07:00:55.1			1.4	43			
	i PKPbc	- Z	07:01:05.2			1.2	71			
	i PKPab	Z	07:01:21.7			1.7	305			
	e pPKPab	Z	07:02:29.5			16.2	208			
	e PP	Z	07:04:52.4			25.3	194			
	e pPP	Z	07:06:00.0							
	e		Z	07:18:07.2			28.7	259		

Date Origin Time
2000/04/11 07:10:25.6
Southern Xinjiang, China

Lat Long Depth mb Ms ML Source
39.392N 74.862E 33N 4.7

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 07:18:42.9 45.1 77.9 1.0 18

Date Origin Time
2000/04/11 09:13:51.7
South of Fiji Islands

Lat Long Depth mb Ms ML Source
24.285S 179.694E 522D 4.7

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 09:33:06.1 153.0 23.7

Date Origin Time
2000/04/11

Lat Long Depth mb Ms ML Source

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 18:17:35.9

Date Origin Time
2000/04/11 18:35:39.5
Michoacan, Mexico

Lat Long Depth mb Ms ML Source
18.290N 102.427W 33N 5.1 4.5

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e P Z 18:48:41.0 90.4 299.6 1.0 10
e 18:48:50.0

Date Origin Time
2000/04/11 20:56:59.2
Tonga Islands

Lat Long Depth mb Ms ML Source
15.460S 173.428W 52D 5.7

Sta Phase Time Dist BAz T[s] A[nm] mb MS ML
GRA1 e PKP Z 21:16:34.5 145.6 7.9

Date Origin Time
2000/04/12 07:21:18.1

Lat Long Depth mb Ms ML Source
17.405S 178.118W 139D 4.3

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 01:11:38.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/15	09:33:38.6			N				SZGRF
2000/04/15	09:32:33.1	32.982N	95.467E	33N	4.9	4.7		NEIC

Xizang

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 09:42:57.5	62.0	71.0					
CLL	e P	Z 09:42:40.7			1.7	19	4.6		
	e SS	Z 09:55:17.9							
	e L	Z 10:11:22.1			18.0	817		4.9	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/15	21:13:14.8	52.010N	176.100W	33.0N	4.9			SZGRF
2000/04/15	21:13:19.5	52.164N	170.291E	33N	4.7			NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 21:25:10.9	76.6	13.0	0.8	9	4.9		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/16	13:25:44.1	18.649S	173.684W	33N	5.4	5.2		NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 13:45:26.2	148.7	9.0					
	e	13:45:30.7							
	e	13:45:46.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/16	16:10:12.4	16.568S	173.660W	33N	4.8			NEIC

Tonga Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 16:29:52.3	146.6	8.5					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
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2000/04/16	20:29: 9.9	45.840N	15.380E	10.0G		4.0	SZGRF
2000/04/16	20:29:08.8	45.890N	15.430E	10	4.8		NEIC

Northwestern Balkan Peninsula

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	20:30:00.0	3.2	157.7					3.6
	e Sg	N	20:30:51.8							
FUR	e Sg	N	20:31:04.0	3.6	127.2					4.1
WET	e Pn	Z	20:30:07.7	3.7	151.1					
GRA1	e Pn	Z	20:30:21.8	4.7	141.8					
	e Sg	N	20:31:43.1							
BRG	e Pn	Z	20:30:25.9	5.1	168.2					3.9
	e Sn	N	20:31:24.1							
MOX	e Pn	N	20:30:30.2	5.4	150.5					
	e Sn	N	20:31:30.9							
BFO	e Pn	Z	20:30:30.5	5.4	114.2					
	e Sn	E	20:31:31.5							
CLL	e Pn	Z	20:30:33.6	5.6	162.6					4.4
TNS	e Pn	Z	20:30:43.8	6.4	130.2					
	e Sn	N	20:31:53.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/17	23:55:41.3	34.360N	26.250E	33.0N	4.9	3.9		SZGRF
2000/04/17	23:55:39.8	34.220N	25.911E	10G	4.9	4.2		NEIC

Crete, Greece

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e P	Z	23:59:40.4	17.2	143.7	0.9	33	4.4		
FUR	e P	Z	23:59:47.8	17.7	136.6	1.0	238	5.3		
WET	e P	Z	23:59:48.3	17.8	142.3	0.9	44	4.6		
BRG	e P	Z	23:59:58.6	18.8	147.8	0.8	17	4.3		
GRA1	e P	Z	23:59:59.9	18.9	139.6	1.1	121	5.0		
	e S	Z	00:03:28.4							
	e L	Z	00:13:39.9			20.4	631		3.9	
STU	e P	Z	00:00:03.8	19.1	133.4	0.8	137	5.2		
BFO	e P	Z	00:00:04.4	19.2	130.7	0.9	49	4.7		
RUE	e P	Z	00:00:16.1	20.2	149.8	1.1	66	4.8		
TNS	e P	Z	00:00:18.0	20.5	134.8	1.0	72	5.0		
BUG	e P	Z	00:00:33.5	21.9	134.8	0.9	158	5.4		
IBBN	e P	Z	00:00:37.6	22.3	137.2	0.9	96	5.2		
BSEG	e P	Z	00:00:38.7	22.6	144.6	1.3	65	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/17	04:25:19.3	23.560S	178.220W	556.0				GRSN
2000/04/17	04:25:20.5	22.108S	179.474W	539D	4.8			NEIC

South of Fiji Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML		
GRA1	e PKPdf	Z	04:44:07.3	151.2	20.9							
	e PKPbc	Z	04:44:14.1									
	e PKPab	Z	04:44:24.5									
	e pPKP	Z	04:46:23.2									
CLL	i PKPdf	+ Z	04:44:03.5	150.9	21.5	1.3	24					
	i PKPbc	- Z	04:44:09.5								0.8	164
	i PKPab	Z	04:44:16.4									
	e pPKPbc	Z	04:46:18.0									

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/18	00:12:05.7	52.476S	13.489E	10G	5.5	5.3		NEIC

Southwest of Africa

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML			
GRA1	e (P)	Z	00:30:09.2										
	e L	Z	01:11:00.2								21.1	1250	4.8
FUR	e PP	Z	00:29:52.9	100.7	178.6	11.9	659						
	e SKSac	N	00:36:28.3										
	e SS/PSPS	N	00:44:16.3								22.2	1642	
	e LV	Z	00:59:46.2										
WET	e L	Z	01:11:06.7	101.6	179.6	18.0	1186			5.4			
	e Pdiff	Z	00:25:57.9								1.3	6	
	e PP	Z	00:30:00.3								7.6	706	
	e SKSac	N	00:36:40.4										
	e PS	N	00:39:05.9										
	e SS/PSPS	N	00:44:38.6								30.7	1099	
MOX	e LV	Z	00:59:58.0	103.1	178.8	22.0	1061			5.3			
	e L	Z	01:06:24.6										
	e Pdiff	Z	00:26:03.6								4.7	228	
	e PP	Z	00:30:17.2								7.2	616	
	e SKSac	N	00:36:45.9										
	e PS	N	00:39:27.7										
CLL	e SS/PSPS	N	00:45:02.4	103.8	179.7	21.6	1666						
	e LV	Z	01:01:01.3										
	e L	Z	01:11:41.0								20.0	792	5.2
	e Pdiff	Z	00:26:07.4								0.9	6	
	e PP	Z	00:30:18.8								9.1	699	
	e SKSac	N	00:36:49.2										
	e PS	N	00:39:35.8										
	e SS/PSPS	N	00:45:10.9								21.2	1848	
CLL	e LV	Z	01:01:29.3			18.0	966			5.4			
	e L	Z	01:12:31.0										

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/18	05:30: 8.2	22.850S	177.540W	500.0G				GRSN
2000/04/18	05:30:13.7	20.825S	179.395W	500G	4.5			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	05:49:07.4	149.9	20.1					
BSEG	i PKPbc	- Z	05:48:57.6	148.4	13.9	0.8	28			
CLL	i PKPbc	- Z	05:49:02.7	150.4	20.0	1.0	26			
	e PKPab	Z	05:49:08.3			1.1	15			
MOX	i PKPbc	- Z	05:49:05.1	151.3	17.8	1.2	19			
	e PKPab	Z	05:49:11.8							
BFO	i PKPbc	- Z	05:49:11.2	154.1	12.5	1.1	15			
	e PKPab	Z	05:49:24.1			1.0	13			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/18								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pdiff	Z	06:37:28.0			17.8	94			
	e PP	Z	06:41:42.6			16.7	255			
	e PS	Z	06:51:04.5							
	e L	Z	07:30:37.4			18.0	882			
CLL	e Pdiff	Z	06:37:05.3			21.3	70			
	e PP	Z	06:41:28.0			16.3	232			
	e PS	Z	06:50:27.6							
	e L	Z	07:33:13.9			18.0	1068			
MOX	e Pdiff	Z	06:37:16.7			21.9	47			
	e PP	Z	06:41:34.7			16.5	219			
	e PS	Z	06:50:47.8							
	e L	Z	07:28:29.9			18.0	826			
TNS	e PP	Z	06:41:50.5			17.5	203			
	e PS	Z	06:50:57.5							
	e L	Z	07:29:05.1			18.0	773			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/18	17:28:12.3	20.569S	176.509W	220D	5.6			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKPdf	Z	17:47:34.3	150.2	14.7					
	e PKPbc	Z	17:47:40.0							

e PKPab Z 17:47:47.3

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/19	02:23:02.3	38.145N	21.940E	60D	4.8			NEIC

Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 02:26:24.8	13.9	142.4	1.3	50			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/19	12:23:0.6	44.420N	11.870E	10.0G			3.7	SZGRF

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z 12:24:09.3	4.6	196.5					3.7
	e Sn	N 12:25:02.5							
BFO	e Pn	Z 12:24:10.7	4.6	146.7					3.5
	e Sn	E 12:25:02.2							
WET	e Pn	Z 12:24:12.0	4.8	188.7					3.7
	e Sn	N 12:25:06.4							
MOX	e Pn	Z 12:24:32.1	6.2	178.3					3.9
	e Sn	N 12:25:40.2							
TNS	e Sn	N 12:25:41.2	6.2	156.9					3.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/19	12:54:35.3	25.641S	177.273W	98D	5.2			NEIC

South of Fiji Islands

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e PKPbc	Z 13:14:18.0	151.1	14.3	1.2	32			
	e pPKPbc	Z 13:14:46.0							
CLL	e PKPbc	Z 13:14:22.5	153.2	20.9	2.0	45			
MOX	e PKPdf	Z 13:14:16.2	154.1	18.6	1.1	12			
	e PKPab	Z 13:14:38.0							
	e pPKPdf	Z 13:14:45.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/19	16:17:26.2	44.490N	11.650E	10.0G				SZGRF
2000/04/19	16:17:19.2	43.988N	11.941E	10G	3.7			NEIC

Northern Italy

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Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	16:18:34.4	5.0	194.7					
	e Sn	N	16:19:26.2							
BFO	e Pn	Z	16:18:34.4	5.0	148.7					
	e Sn	N	16:19:23.5							
WET	e Pn	Z	16:18:37.3	5.2	187.5					
	e Sn	N	16:19:30.9							
GRA1	e Sn	N	16:19:42.1	5.7	174.8					
MOX	e Pn	Z	16:18:56.6	6.7	178.0					
	e Sn	N	16:20:05.3							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/19	20:06:54.9	44.500N	11.870E	10.0G			3.5	SZGRF
2000/04/19	20:06:48.1	44.078N	11.970E	10G	4.1			NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	20:08:02.5	4.9	194.7					3.5
	e Sn	N	20:08:55.1							
BFO	e Pn	Z	20:08:03.7	4.9	148.0					3.6
	e Sn	N	20:08:54.7							
WET	e Pn	Z	20:08:05.4	5.1	187.4					
	e Sn	N	20:08:59.1							
MOX	e Pn	Z	20:08:24.5	6.6	177.8					
	e Sn	N	20:09:33.3							
TNS	e Pn	Z	20:08:26.0	6.6	157.4					
	e Sn	N	20:09:33.5							
BRG	e Pn	Z	20:08:30.7	6.9	191.8					
	e Sn	N	20:09:41.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/20	02:44:15.6	39.280N	20.040E	10.0G				SZGRF
2000/04/20	02:44:13.4	39.368N	20.341E	30	4.3			NEIC

Greece-Albania border region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	02:46:45.1	10.6	150.9					
	e Sn	N	02:48:40.1							
WET	e Pn	Z	02:46:52.4	11.1	148.7					
	e Sn	E	02:48:51.0							
BFO	e Pn	Z	02:47:10.5	12.4	131.7					
	e Sn	N	02:49:21.4							
MOX	e Pn	Z	02:47:16.1	12.8	148.1					
TNS	e Sn	N	02:49:51.9	13.7	137.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/20								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e PKPbc	Z 08:10:29.2			0.8	14			
CLL	e PKP	Z 08:10:17.2			0.8	30			
MOX	e PKP	Z 08:10:21.2			0.9	13			
WET	e PKPbc	Z 08:10:23.1			1.3	18			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/20	07:50:44.2	21.230S	169.400E	33N	5.1			NEIC
Southeast of Loyalty Islands								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 08:10:24.2	146.7	39.1					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/20	08:40:59.2	36.250N	71.320E	33.0N	5.7	5.0		SZGRF
2000/04/20	08:41:29.6	38.529N	66.434E	11D	5.4	5.1		NEIC
Afghanistan-Tajikistan border region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 08:49:09.2	40.2	84.4	1.4	151	5.7		
	e S	E 08:55:18.7							
	e L	Z 09:09:51.2			15.1	1456		5.0	
CLL	i P	- Z 08:48:57.8	36.4	88.2	0.8	14	4.8		
	i	08:49:01.1			1.1	57			
	e PP	Z 08:50:30.9							
	e S	Z 08:55:26.4							
	e L	Z 09:07:57.1			20.0	1156		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/20	22:19:50.5	21.773S	176.605W	167D	4.7			NEIC
Fiji Islands region								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 22:39:34.9	151.4	15.3					
CLL	i PKPbc	- Z 22:39:21.3			1.0	26			
	e PKPab	Z 22:39:26.4			1.5	49			
	e pPKPbc	Z 22:40:06.9			1.1	23			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/21	04:12:13.6	45.430N	8.980E	10.0G				SZGRF
2000/04/21	04:12:10.7	45.188N	8.745E	19				NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	04:13:00.2	3.2	174.7					
	e Sn	N	04:13:35.5							
GRA1	e Sn	N	04:14:13.2	4.8	201.3					
WET	e Pn	Z	04:13:22.6	4.9	216.9					
	e Sn	N	04:14:14.0							
GEC2	e Pn	Z	04:13:24.0	5.0	224.6					
	e Sn	N	04:14:17.1							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/21	04:35: 0.2	51.700N	178.630W			5.7		GRSN
2000/04/21	04:35:28.8	52.970N	177.870W	33.0N	6.3	5.7		SZGRF
2000/04/21	04:35:17.5	51.419N	178.169W	33N	6.0	5.7		NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	04:47:19.0	78.6	6.0	1.5	398	6.3		
	e S	N	04:57:17.6							
	e L	Z	05:26:24.0			21.2	3624		5.7	
BSEG	i P	+ Z	04:46:55.5	74.1	5.8	2.0	556			
	e PcP	Z	04:47:09.1							
	e		04:47:27.5			1.3	121			
	e S	Z	04:56:23.8							
	e SS	Z	05:01:26.6							
CLL	e L	Z	05:24:48.1			22.0	3788		5.6	
	i P	+ Z	04:47:08.6	76.5	7.4	1.3	142			
	e PcP	Z	04:47:19.3							
	e PP	Z	04:50:07.3			25.7	247			
	e S	Z	04:57:01.6							
	e SP	Z	04:57:53.8							
	e SS	Z	05:01:57.7							
MOX	e L	Z	05:25:04.4			22.0	4036		5.7	
	i P	+ Z	04:47:11.7	77.3	6.5	1.5	188			
	e PP	Z	04:50:25.2			22.2	392			
	e S	Z	04:57:01.3							
	e SP	Z	04:58:02.7							
BFO	e SS	Z	05:02:11.8							
	e L	Z	05:25:54.1			20.0	3896		5.7	
	i P	+ Z	04:47:26.8	79.8	4.4	1.4	156			

e S	Z	04:57:24.8							
e SP	Z	04:58:36.1							
e SS	Z	05:03:10.6							
e L	Z	05:20:21.7			22.0		3459		5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/21	11:05:51.7	33.950N	137.330E	356.1	5.4			SZGRF
2000/04/21	11:06:16.3	35.753N	135.448E	346D	5.5			NEIC

Near south coast of eastern Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 11:17:43.5	78.6	42.6	1.2	36	5.3		
BRG	e P	Z 11:17:47.3	79.3	44.8	0.9	11	5.0		
CLL	e P	Z 11:17:47.5	79.4	44.2	1.1	37	5.4		
CLZ	e P	Z 11:17:51.6	80.1	42.4	1.1	37	5.5		
MOX	e P	Z 11:17:53.0	80.5	43.1	1.0	13	5.1		
WET	e P	Z 11:17:56.5	81.0	43.8	0.9	8	4.9		
GRA1	e P	Z 11:17:58.0	81.4	42.7	1.4	86	5.8		
	e pP	Z 11:19:20.0							
	e PP	Z 11:21:08.2							
TNS	e P	Z 11:18:02.0	82.2	40.9	1.2	24	5.3		
FUR	e P	Z 11:18:03.9	82.5	42.6	0.9	72	5.9		
BFO	e P	Z 11:18:09.5	83.6	40.6	1.0	42	5.5		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/21	12:22:59.0	37.200N	30.510E	33.0N		4.2		SZGRF
2000/04/21	12:23:10.8	37.831N	29.306E	33N	5.0	4.8		NEIC

Turkey

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 12:27:15.0	17.6	125.6					
	e L	Z 12:33:56.8			19.1	1311		4.2	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/22	11:13:48.4	39.216N	15.053E	296*	4.2			NEIC

Southern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pn	Z 11:16:17.2	10.8	164.0					

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 10:22:14.4			2.0	46			

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/23	17:01:17.5	28.366S	62.924W	610D	5.8			NEIC
Santiago del Estero Province, Argentina								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e Pdiff	Z 17:14:08.0	101.9	239.9					
	e PP	Z 17:18:25.1							
CLL	i P	Z 17:14:15.4			1.3	32	5.9		
	e pP	Z 17:16:24.2							
	i PP	- Z 17:18:37.1			1.6	92			
	e sPP	Z 17:21:37.2							
	i SKS	E 17:23:57.1							
	e S	N 17:25:12.2			12.2	428			
	e SP	Z 17:26:38.7							
	e PS	E 17:28:10.5							
	e sS	N 17:29:13.7							
	e PKKP1	Z 17:29:32.4			0.7	5			
	i PKKP2	Z 17:30:27.9			1.3	11			
	e sSP	E 17:30:46.1							
	e sSS	N 17:36:07.2							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/23								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 20:56:42.0							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/23	21:25: 0.1	44.450N	11.850E	10.0G			3.3	SZGRF
Northern Italy								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 21:26:09.2	4.6	146.7					
	e Sn	N 21:27:00.7							
WET	e Pn	Z 21:26:11.3	4.7	188.9					3.3
	e Sn	N 21:27:05.2							
GRA1	e Sn	N 21:27:17.5	5.3	175.1					

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MOX	e Pn	Z	21:26:30.4	6.2	178.4						
	e Sn	N	21:27:39.7								
TNS	e Pn	Z	21:26:31.2	6.2	157.0						
	e Sn	N	21:27:39.6								
BRG	e Pn	Z	21:26:36.3	6.6	193.2						3.4
	e Sn	N	21:27:47.6								

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/23	21:28:41.7	44.480N	12.010E	10.0G			3.6	SZGRF
2000/04/23	21:28:39.2	44.450N	11.832E	10G	3.9			NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z	21:29:50.8	4.6	146.8					
	e Sn	N	21:30:43.1							
WET	e Pn	Z	21:29:52.2	4.7	189.1					3.5
	e Sn	N	21:30:45.4							
GRA1	e Sn	N	21:30:58.5	5.3	175.2					
MOX	e Pn	Z	21:30:12.8	6.2	178.6					3.7
	e Sn	E	21:31:20.2							
TNS	e Pn	Z	21:30:13.2	6.2	157.1					
	e Sn	N	21:31:22.2							
BRG	e Pn	Z	21:30:16.8	6.6	193.3					
	e Sn	N	21:31:28.8							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/25	00:23:18.0	13.199S	74.852W	108D	5.1			NEIC

Central Peru

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	00:36:41.3	97.5	258.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/25								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	03:18:55.4							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/25	15:28:19.4	40.720N	143.450E	34.8	5.4	5.0		SZGRF
2000/04/25	15:28:15.1	40.396N	143.250E	33N	5.1	4.7		NEIC

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	i P	Z 15:40:27.7	80.5	35.0	1.0	38	5.4		
	e	15:40:37.7							
	e	15:40:46.6							
	e S	E 15:50:39.0							
	e L	E 16:14:03.9			21.8	722		5.0	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/26	03:21:32.6	86.170N	108.710E	33.0N		4.7		SZGRF
2000/04/26	03:21:24.4	84.359N	108.010E	10G	5.3	5.0		NEIC

North of Severnaya Zemlya

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 03:29:12.4	41.3	8.5					
	e	03:29:20.7							
	e PP	Z 03:30:47.4							
	e S	N 03:35:23.1							
	e L	Z 03:52:20.7			18.7	1029		4.7	

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/26	12:48:54.8	40.850N	144.100E	33.0N	5.6			SZGRF
2000/04/26	12:48:49.4	40.393N	143.142E	33N	5.1			NEIC

Off east coast of Honshu, Japan

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z 13:00:46.1	77.3	34.9	1.1	91	5.8		
GEC2	e P	Z 13:01:01.7	80.2	36.6	1.2	24	5.1		
GRA1	e P	Z 13:01:03.8	80.5	35.1	1.2	120	5.8		
TNS	e P	Z 13:01:06.1	81.1	33.2	1.3	49	5.4		
BFO	e P	Z 13:01:14.7	82.7	33.0	1.4	66	5.7		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/26	12:55:10.2	41.120N	144.050E	33.0N	5.6			SZGRF
2000/04/26	12:55:03.9	40.341N	143.082E	33N	5.5	5.1		NEIC

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	i P	Z 13:07:00.0	77.4	35.0	1.1	127	6.0		
GEC2	i P	Z 13:07:15.9	80.3	36.7	1.1	29	5.1		
GRA1	i P	Z 13:07:17.2	80.5	35.1	1.1	152	5.9		
TNS	i P	Z 13:07:20.2	81.1	33.3	1.1	50	5.4		

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BFO i P Z 13:07:28.3 82.7 33.1 1.1 54 5.7

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/26	13:37:51.9	41.000N	10.100E	10.0G			4.5	SZGRF
2000/04/26	13:37:48.3	40.911N	10.161E	10G	5.2			NEIC

Tyrrhenian Sea

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 13:39:38.9	7.5	169.4					4.5
	e Sn	N 13:41:00.4							
GEC2	e Pn	Z 13:39:49.9	8.3	198.8					
WET	e Pn	Z 13:39:52.0	8.5	194.1					
TNS	e Pn	Z 13:40:05.1	9.4	172.0					
	e Sn	N 13:41:45.1							
MOX	e Pn	Z 13:40:10.6	9.8	186.5					
BRG	e Pn	Z 13:40:17.3	10.3	196.2					
CLL	e Pn	Z 13:40:21.3	10.6	191.8					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/26	22:25: 8.9			G				SZGRF
2000/04/26	22:25:07.0	43.556N	19.699E	10G	4.5			NEIC

Northwestern Balkan Peninsula

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 22:27:22.1	9.2	116.9					
TNS	e Pn	Z 22:27:35.6	10.2	126.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/27	01:57:53.5	44.470N	11.960E	10.0G			3.6	SZGRF
2000/04/27	01:57:50.9	44.318N	11.976E	10G				NEIC

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
FUR	e Pn	Z 01:58:52.0	3.9	172.6					
GEC2	e Pn	Z 01:59:01.6	4.7	195.3					3.4
	e Sn	N 01:59:53.9							
BFO	e Pn	Z 01:59:02.9	4.7	146.6					3.5
	e Sn	N 01:59:54.8							
WET	e Pn	Z 01:59:04.1	4.9	187.6					3.6
	e Sn	N 01:59:58.1							
GRA1	e Pn	Z 01:59:11.5	5.4	174.3					3.6
	e Sn	N 02:00:11.2							
MOX	e Pn	Z 01:59:23.5	6.3	177.7					3.8

	e Sn	E	02:00:32.3						
TNS	e Pn	Z	01:59:25.7	6.4	156.6				
	e Sn	E	02:00:33.2						
BRG	e Sn	N	02:00:40.5	6.7	192.2				3.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/27	02:26:28.8	44.500N	11.880E	10.0G				SZGRF
2000/04/27	02:26:27.3	44.516N	11.826E	10G	3.5			NEIC

Northern Italy

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	e Pn	Z 02:27:37.2	4.5	146.4					
	e Sn	N 02:28:29.6							
GEC2	e Pn	Z 02:27:37.1	4.5	197.2					
	e Sn	N 02:28:28.4							
WET	e Pn	Z 02:27:39.4	4.7	189.2					
	e Sn	N 02:28:32.3							
GRA1	e Sn	N 02:28:45.2	5.2	175.2					
MOX	e Sn	E 02:29:06.5	6.1	178.6					
TNS	e Sn	N 02:29:06.9	6.1	156.9					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/27	19:03:43.8	38.335N	22.184E	10G	4.8	4.2		NEIC

Greece

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:07:05.7	13.8	141.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/27	23:56:15.2	10.201N	126.092E	33N	4.7			NEIC

Philippine Islands region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 00:10:36.3	97.6	64.3					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/28	13:53: 6.2	52.640N	173.770W	33.0N	5.1			SZGRF
2000/04/28	13:52:56.2	51.397N	173.941W	33N	4.7			NEIC

Andreanof Islands, Aleutian Islands, United States

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BSEG	e P	Z	14:04:35.2	74.6	2.8	1.0	23	5.1		
CLL	e P	Z	14:04:49.4	77.1	4.4	0.8	14	5.2		
BRG	e P	Z	14:04:51.4	77.5	5.0	1.1	22	5.2		
MOX	e P	Z	14:04:53.7	77.8	3.5	1.2	24	5.2		
TNS	e P	Z	14:04:56.3	78.4	1.5	1.0	19	5.1		
GRA1	e P	Z	14:04:59.4	78.8	3.3	1.0	35	5.5		
WET	e P	Z	14:05:01.5	79.3	4.3	1.4	15	4.9		
GEC2	e P	Z	14:05:02.9	79.5	4.8	1.1	11	4.8		
BFO	e P	Z	14:05:06.7	80.3	1.4	1.1	16	5.0		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/28	15:15:52.0	44.460N	11.980E	10.0G			3.6	SZGRF

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	15:17:00.1	4.5	195.7					3.5
	e Sn	N	15:17:52.7							
BFO	e Pn	Z	15:17:01.8	4.6	145.6					3.6
	e Sn	N	15:17:53.4							
WET	e Pn	Z	15:17:02.7	4.7	187.8					3.5
	e Sn	N	15:17:56.7							
GRA1	e Sn	N	15:18:09.5	5.3	174.1					3.5
MOX	e Pn	Z	15:17:22.7	6.2	177.6					3.8
	e Sn	N	15:18:31.1							
TNS	e Pn	Z	15:17:24.1	6.2	156.1					3.6
	e Sn	N	15:18:32.5							
BRG	e Sn	N	15:18:39.0	6.5	192.4					3.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/28	16:24:30.9	15.240S	173.502W	33N	4.9			NEIC

Tonga Islands

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	16:44:08.2	145.3	8.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/28	17:40:59.5	37.771N	19.723E	10G	4.7	3.7		NEIC

Ionian Sea

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	17:44:21.7	13.4	149.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/29	15:01:38.9	1.171S	15.963W	10G	5.0	4.5		NEIC

North of Ascension Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:11:18.4	56.0	213.4					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/29	15:17:11.0	1.440S	17.180W	33.0N	5.2			SZGRF
2000/04/29	15:17:10.3	1.401S	16.015W	10G	5.1	5.1		NEIC

North of Ascension Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:26:51.3	56.2	213.4	1.8	48	5.2		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/29	15:20:18.0	0.560S	14.460W	33.0N				SZGRF
2000/04/29	15:20:06.5	1.219S	15.906W	10G	5.3	5.0		NEIC

North of Ascension Island

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 15:29:47.3	56.0	213.4					
	e	15:29:52.6							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/29	19:14:51.4	51.924N	30.188W	10G	4.4			NEIC

Northern Mid-Atlantic Ridge

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z 19:20:26.1	25.9	291.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/29	19:52:27.5	4.470S	74.040W	125.0G	5.7			SZGRF
2000/04/29	19:52:21.8	6.381S	77.050W	125D	5.7			NEIC

Northern Peru

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BFO	i P	Z 20:05:15.5	91.7	262.3	1.3	34	5.5		
TNS	i P	Z 20:05:17.7	92.0	262.5	1.3	80	5.8		

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CLZ	i P	Z	20:05:24.4	93.4	264.0	1.8	133	5.9
BSEG	i P	Z	20:05:25.2	93.6	264.1	1.4	83	5.8
FUR	i P	Z	20:05:25.0	93.6	264.5	1.5	92	5.8
GRA1	i P	Z	20:05:25.8	93.7	264.6	1.6	88	5.7
	e pP	Z	20:05:45.6					
	e sP	Z	20:05:59.2					
MOX	i P	Z	20:05:27.3	94.1	264.9	1.3	39	5.6
WET	i P	Z	20:05:30.4	94.8	265.8	2.0	88	5.7
CLL	i P	Z	20:05:31.6	95.0	266.0	1.1	36	5.6
GEC2	i P	Z	20:05:32.5	95.3	266.4	1.3	18	5.2
BRG	i P	Z	20:05:34.2	95.6	266.7	1.1	41	5.6

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/29	23:23:36.5	44.490N	11.850E	10.0G				SZGRF
2000/04/29	23:23:32.2	44.194N	12.025E	10G	3.5			NEIC

Northern Italy

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GEC2	e Pn	Z	23:24:44.5	4.8	194.5					
	e Sn	N	23:25:36.9							
GRC1	e Sn	N	23:25:36.4	4.8	175.7					
BFO	e Pn	Z	23:24:45.4	4.9	146.9					
	e Sn	N	23:25:36.3							
WET	e Pn	Z	23:24:47.0	5.0	187.1					
	e Sn	N	23:25:40.6							
GRA1	e Sn	N	23:25:53.0	5.5	174.0					
MOX	e Pn	Z	23:25:07.4	6.5	177.4					
	e Sn	N	23:26:15.0							
TNS	e Sn	N	23:26:15.1	6.5	156.7					
BRG	e Sn	N	23:26:23.1	6.8	191.7					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/30	08:49:58.5	17.930S	178.356W	500G	4.0			NEIC

Fiji Islands region

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z	09:08:46.0	147.3	17.0					

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/30								

Sta	Phase		Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e P	Z	10:24:43.2							

e L Z 10:57:22.7 20.7 878

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/30								

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PKP	Z 12:32:48.5							

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/30	12:39:57.5	41.330N	144.200E	32.0	5.6	5.2		SZGRF
2000/04/30	12:39:50.1	40.336N	143.746E	33N	5.3	4.9		NEIC

Hokkaido, Japan, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
BRG	i P	Z 12:51:52.8	78.8	36.7	1.2	38	5.4		
CLL	i P	Z 12:51:52.4	78.8	36.1	1.1	62	5.6		
CLZ	i P	Z 12:51:55.7	79.3	34.3	1.4	113	5.7		
MOX	i P	Z 12:51:58.3	79.8	35.1	1.3	47	5.4		
WET	i P	Z 12:52:03.0	80.6	35.8	1.2	64	5.4		
GRA1	i P	Z 12:52:03.8	80.8	34.7					
	e pP	Z 12:52:13.6							
	e sP	Z 12:52:24.1							
	e L	Z 13:31:30.0			18.6	1018		5.2	
TNS	i P	Z 12:52:06.5	81.3	32.8	1.1	32	5.3		
FUR	i P	Z 12:52:10.4	82.0	34.6	1.0	82	5.8		
BFO	i P	Z 12:52:14.9	83.0	32.6	1.8	111	5.8		

Date	Origin Time	Lat	Long	Depth	mb	Ms	ML	Source
2000/04/30	21:08:39.4	3.939S	146.400E	33N	5.3	5.7		NEIC

Eastern New Guinea, Papua New Guinea, region

Sta	Phase	Time	Dist	BAz	T[s]	A[nm]	mb	MS	ML
GRA1	e PP	Z 21:29:02.2	120.7	54.8					
	e L	Z 22:21:18.4			22.0	2124		5.7	

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