

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/02	12:51:33.9		47.263N	9.384E				10G			23		2.8ML	STR	NEIC	
ML= 3.4(VIE), ML= 3.2(FUR)																
1998/09/02	12:51:34.0	+/- 1.22	47.100N	9.400E	14.5	7.8	3	10G		6	5	282	3.0ML		SZGRF	L
1998/09/02	12:51:32.5	+/- 0.88	47.120N	9.430E	8.9	5.6	10	10G		13	8	271	3.1ML	GRFO	BGR	L
1998/09/02	12:51:33.9	+/- 0.50	47.170N	9.360E	6.0	3.0	352	10G		48	19	231	3.2ML		LEDBW	L
<b>1998/09/02</b>	<b>12:51:33.2</b>		<b>47.150N</b>	<b>9.347E</b>	<b>1.5</b>	<b>1.5</b>	<b>0</b>	<b>9</b>	<b>+/- 3.3</b>	<b>20</b>	<b>13</b>	<b>131</b>	<b>2.9ML</b>		<b>SED</b>	

Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
UBR	e Pg +	12:51:47.9	0.7			82.2	43.9	ML 3.3
	e PmP	12:51:49.9	0.3					
	e Sg	12:51:59.1	2.2					
	i SmS	12:52:02.3	1.5					
SPAK	e P	12:51:52.9				113.9	338.6	
	e Sg	12:52:07.1	1.2					
MSS	e Pn +	12:51:53.2	-0.3			118.1	346.2	
	e Pg +	12:51:53.6	0.3					
	e Sg	12:52:08.1	1.0					
BHB	e Pn -	12:51:54.2	-0.2			124.7	348.3	
	e Pg -	12:51:55.0	0.6					
	e Sn	12:52:09.2	-0.1					
	e Sg	12:52:10.4	1.5					
HSN	e Pn -	12:51:54.7	-0.2			128.8	355.0	
	e Pg +	12:51:55.7	0.6					
FELD	e Pn -	12:51:55.0	0.0			129.2	309.2	
	e Sg	12:52:09.9	-0.3					
END	e Pn	12:51:55.8	-0.0			136.4	298.0	
	e Sn	12:52:12.6	0.8					
	e Pn	12:51:56.4	0.2					
KIZ	i Pg +	12:51:57.0	0.1			139.8	310.4	ML 3.4
	e Sn	12:52:11.0	-1.5					
	e Sg	12:52:13.6	0.3					
BBS	e Pn -	12:51:56.8	0.2			142.9	284.8	
	e Pg -	12:51:57.9	0.5					
	e Sg	12:52:15.1	0.9					
BAW	e Pn -	12:51:56.7	-0.1			144.8	300.5	
	e Pg +	12:51:58.4	0.6					
	e Sg	12:52:14.9	0.2					
BFO	e Pg -	12:51:59.0	0.0			151.7	330.3	ML 2.6
	e Sg	12:52:16.9	0.3					
BEU	e Pn	12:51:58.2	-0.4			159.5	1.8	ML 3.2
	e Pg	12:52:00.0	-0.2					
	e PmP	12:52:00.5	-1.0					
	e Sn	12:52:16.4	-0.3					
	i Sg	12:52:19.8	1.0					
HDH	e Pn	12:51:59.4	-0.7			171.9	21.6	ML 3.2
	e Pg	12:52:02.4	0.0					
	e Sg	12:52:22.8	0.4					

LBG	e	Pg		12:52:02.3	-0.3				173.3	346.5		ML	2.9
		Sn		12:52:18.7	-0.9								
	e	Sg		12:52:22.6	-0.1								
FUR	e	Pg		12:52:04.5	0.2				183.1	51.3		ML	3.3
	e	Sg	N	12:52:26.6	1.0								
SIND	e	Pn +		12:52:08.1	-1.0				245.2	4.4		ML	3.0
	e	Pg -		12:52:15.0	0.2								
	e	Sn		12:52:35.3	0.5								
	e	Sg		12:52:43.3	-0.0								
GRC1	e	Pg	Z	12:52:19.5	2.0				261.2	37.4		ML	3.1
GRFO	e	Sg	E	12:53:03.1	-0.0	4.5			314.5	25.4		ML	3.1
GRA1	e	Sg	N	12:53:03.4	0.3				314.7	25.4		ML	3.2
RUP	e	Pg		12:52:28.9	-0.3				330.1	330.1			
ABH	e	Pn -		12:52:20.4	0.8				331.4	337.1			
	e	Pg		12:52:29.5	0.1								
WET	e	Pn	Z	12:52:21.2	0.2	2.7			343.1	48.5		ML	3.1
	e	Pg	E	12:52:31.1	-0.3	3.3							
	e	Sn	E	12:52:57.4	1.9								
	e	Sg	N	12:53:10.5	-0.8	1.0							
GEC2	e	Pg	Z	12:52:34.5	-2.2	6.6			374.7	58.2		ML	2.9
	e	Sg	N	12:53:18.0	-2.3	1.8							
MOX	e	Sg	E	12:53:33.5	-0.5	3.5			422.4	22.3		ML	3.0
CLZ	e	Sg	E	12:54:04.4	0.7	2.0			526.9	7.7			
BRG	e	Sg	N	12:54:04.0	-1.4	2.7			532.4	37.3			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/03	12:23:43.7		48.640N	8.920E				10G			6		2.0ML		STR	

Calw/Black Forest

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg	Z	12:23:53.0	-0.2			55.5	231.8	ML 1.0
	e Sg	E	12:24:00.7	0.9					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/05	19:23:28.3		47.197N	6.066E				10		9	5		2.3ML		SED	
1998/09/05	19:23:29.3		47.210N	6.110E				10G		32	16	304	2.3ML		LEDBW	L
1998/09/05	19:23:30.3		47.300N	6.030E				10G		5	3	332	2.2ML		SZGRF	L
1998/09/05	19:23:27.8		47.270N	5.970E				10G		10	7	292	2.1ML	BFO	BGR	L
ML= 2.9(STR)																
1998/09/05	19:23:28.1	+- 0.11	47.187N	6.049E	2.0	1.8	93	2G		60		122	2.9ML		LDG	L

SE of Besancon/F

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BBS	e Pn +	19:23:47.1	-1.7			114.3	73.8	
	e Pg -	19:23:47.9	0.4					
	e Sg	19:24:01.0	0.2					
BAS	i Pg -	19:23:49.3	0.5			122.1	70.6	
	e Sg	19:24:04.3	1.3					
END	e Pn +	19:23:49.8	-2.2			139.9	64.6	
	e Pg +	19:23:51.6	-0.2					
	e Sg	19:24:08.4	0.3					
BAW	e Pn +	19:23:49.9	-2.1			140.0	60.3	
	e Pg +	19:23:51.6	-0.2					
	e Sn	19:24:06.3	-2.6					
KIZ	e Sg	19:24:08.3	0.2					
	e Pn +	19:23:52.4	-2.5			164.3	57.9	ML 2.4
	e Pg	19:23:55.5	-0.4					
FELD	e Sn	19:24:11.4	-2.6					
	e Sg	19:24:14.6	-0.5					
	e Pn +	19:23:52.9	-2.2			165.6	61.7	
BFO	e Pg	19:23:55.5	-0.6					
	e Pg Z	19:24:04.4	0.3		6.7	212.6	52.5	ML 2.1
LBG	e Sg E	19:24:29.0	0.2		4.4			
	e Sg	19:24:43.0	-0.1			262.3	50.2	ML 2.3
WLF	e Sn E	19:24:35.4	-2.1			275.6	1.6	
RUP	Pg	19:24:17.0	-0.1			289.4	14.6	
BEU	e Sg	19:24:50.1	-0.7					
	i Pg +	19:24:18.2	0.0			295.2	57.0	ML 2.3
ABH	Sg	19:24:52.6	0.2					
	e Pg -	19:24:21.8	-0.5			319.3	19.7	
TOD	e Sg	19:24:58.1	-1.2					
	e Pg -	19:24:25.1	-0.1			337.1	36.1	
SIND	e Sg	19:25:04.2	-0.2					
	e Pg +	19:24:28.9	0.3			356.4	46.3	ML 2.3
TNS	e Sn	19:24:52.4	-2.2					
	e Sg E	19:25:14.9	-1.9		3.3	380.6	26.6	ML 2.9
GSH	e Sn E	19:25:01.2	-1.7			395.5	3.4	
GRFO	e Sg E	19:25:42.4	-0.6		1.3	472.1	52.0	
GRA1	e Pg Z	19:24:45.9	-2.3			472.3	52.0	
	e Sg N	19:25:44.0	0.9					
WET	e Pg E	19:25:00.7	-0.8		1.7	551.0	64.2	ML 3.0
	e Sn N	19:25:36.5	0.7					
GEC2	e Sg N	19:26:05.9	0.4		2.4			
	e Sg N	19:26:20.0	1.0		1.5	598.0	69.2	

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/07	09:08:58.4	+-	2.08	47.400N	8.970E	27.8	7.8	10	10G		5	4	271	1.9ML	BFO	BGR	L
1998/09/07	09:09:00.0	+-	0.30	47.460N	8.940E	6.0	1.0	6	10G		12	6	213	2.3ML		LEDBW	L
<b>1998/09/07</b>	<b>09:08:58.9</b>			<b>47.518N</b>	<b>8.944E</b>						<b>9</b>	<b>5</b>	<b>185</b>	<b>2.0ML</b>		<b>SED</b>	

Winterthur, Frauenfeld/CH

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FELD	e Sg	09:09:23.6	1.6			80.8	299.9	
UBR	i Pg +	09:09:15.9	1.9			89.1	77.9	ML 1.9
	i PmP+	09:09:17.6	0.7					
	e Sg	09:09:27.8	3.4					
	e SmS	09:09:30.9	1.6					
KIZ	Px	09:09:16.9				90.9	302.8	ML 2.7
	i PmP-	09:09:16.5	-0.6					
	e Sn	09:09:26.1	-3.1					
	i SmS	09:09:28.5	-1.2					
END	e Pn	09:09:15.9	-1.1			93.0	284.1	
BAW	e Pn -	09:09:14.8	-3.1			99.9	288.7	
	e Pg -	09:09:17.3	1.5					
	e Sn	09:09:28.5	-2.6					
	e Sg	09:09:30.2	2.8					
BFO	e Pg Z	09:09:17.9	1.9		2.5	101.2	333.3	ML 1.9
	e Sg E	09:09:30.7	2.8					
HDH	e Sg	09:09:45.3	3.2			151.2	37.9	ML 2.4
SIND	Sg	09:10:00.5	1.8			209.3	13.2	ML 2.2
GRFO	e Sg E	09:10:26.2	3.3			293.9	33.9	
WET	e Sg N	09:10:36.4	-0.3			342.4	56.7	
GEC2	e Sg N	09:10:50.0	1.9			382.3	65.5	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/07	13:46:34.4		50.282N	6.694E				10G			9		2.8ML	LDG	NEIC	
<b>1998/09/07</b>	<b>13:46:34.2</b>		<b>50.300N</b>	<b>6.660E</b>				<b>0G</b>		<b>9</b>	<b>4</b>	<b>187</b>	<b>1.8ML</b>	<b>TNS</b>	<b>BGR</b>	<b>B</b>

Pruem/Eifel

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GSH	e Pg Z	13:46:44.1	0.9	T	2.0	52.5	337.7	ML 1.4
	e Sg N	13:46:48.4	-0.9	T				
TNS	e Pg Z	13:46:55.4	-0.4	T	2.8	127.3	93.2	ML 1.8
	e Sg E	13:47:11.0	0.4	T				
BUG	e Pg Z	13:46:57.3	0.4	T	3.7	133.8	18.4	ML 2.1
	e Sg E	13:47:12.6	0.1	T				
BFO	e Pn Z	13:47:12.9	1.1	T		250.2	150.4	
	e Pg Z	13:47:16.2	-0.4	T				
	e Sg E	13:47:44.8	-0.9	T				

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/07	14:29:32.8		48.233N	14.917E				5G			5		2.0ML	VIE	NEIC	
	Less reliable solution															

Pabneukirchen/A, E of Linz

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GEC2	e Pg Z	14:29:52.2	0.3			112.4	307.7	ML 1.5
	e Sg N	14:30:07.6	2.6					
WET	e Pg Z	14:30:03.5	0.1			180.7	304.9	
	e Sg Z	14:30:26.9	2.5					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/07	19:32:37.2	+ - 0.58	51.680N	7.890E	11.1	4.4	159	1G		7	4	204	2.1ML	GSH	BGR	I
<b>1998/09/07</b>	<b>19:32:35.2</b>		<b>51.693N</b>	<b>7.851E</b>				<b>1G</b>					<b>1.9ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	19:32:45.0	1.5	TA		49.0	235.3	ML 1.9
	e Sg N	19:32:52.2	3.0		2.3			
GSH	e Pg Z	19:33:01.2	0.9		5.5	147.8	224.6	ML 2.1
	e Sg E	19:33:20.6	3.1		3.7			
TNS	e Sg Z	19:33:24.4	1.0		2.5	168.8	165.4	ML 2.1
CLZ	e Pn Z	19:33:05.0	1.6			174.3	83.6	ML 2.1
	e Sg E	19:33:27.2	2.2		3.4			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/09	04:05:44.4	+ - 1.52	51.740N	7.690E	35.6	4.4	152	1G		6	3	224	2.4ML		SZGRF	I
1998/09/09	04:05:43.9	+ - 0.57	51.660N	7.820E	7.8	3.3	163	1G		11	6	204	2.4ML	GSH	BGR	I
<b>1998/09/09</b>	<b>04:05:43.3</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	04:05:51.3	1.2	TA		40.1	235.2	ML 2.2
	e Sg E	04:05:56.9	2.2		4.9			
GSH	e Pg Z	04:06:08.1	1.3		5.2	139.0	223.8	ML 2.4
	e Sg E	04:06:25.3	2.3		3.2			
TNS	e Pg Z	04:06:12.1	0.7		4.3	165.9	162.4	ML 2.3
	e Sg N	04:06:31.5	0.8		2.9			
CLZ	e Pg Z	04:06:14.6	0.4		6.3	182.3	82.2	ML 2.4
	e Sg E	04:06:34.8	-0.6		3.7			
WLF	e Pg Z	04:06:26.9	1.7		1.7	247.3	207.6	
MOX	e Pg Z	04:06:31.9	-0.9		1.7	292.1	110.9	ML 2.5
	e Sg N	04:07:06.1	-0.6		2.5			
CLL	e Sg	04:07:33.0	5.1			366.1	93.9	
BRG	e Sg	04:07:53.1	4.2			439.7	98.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/09	14:29:07.3		48.430N	8.800E				2			5		2.0ML		STR	
<b>1998/09/09</b>	<b>14:29:07.3 +- 0.70</b>		<b>48.450N</b>	<b>8.810E</b>	<b>9.0</b>	<b>4.0</b>	<b>100</b>	<b>2G</b>		<b>11</b>	<b>8</b>	<b>115</b>	<b>1.8ML</b>		<b>LEDBW</b>	<b>L</b>

Rottenburg, SW of Tuebingen

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
LBG	i Sg	14:29:14.4	0.3	T		23.8	357.3	ML 1.7
BFO	e Pg Z	14:29:12.6	-1.1			37.9	249.6	ML 1.1
	e Sg N	14:29:17.6	-0.5					
SPAK	Sg	14:29:17.0	-1.4			38.7	182.6	
BEU	Sg	14:29:18.3	-2.4			47.0	71.3	ML 1.4
KIZ	Pg	14:29:21.4	-0.5	T		85.9	230.6	ML 1.9
	e Sg	14:29:31.3	-0.6	T				
	SmS	14:29:33.4	-3.5					
FELD	e Sg	14:29:33.7	1.4	T		87.4	223.4	
HDH	Sg	14:29:37.2	0.1	T		104.0	81.2	ML 1.8
TOD	e Sg	14:29:44.7	0.6	T		128.5	359.8	
UBR	Sg	14:29:43.5	-0.6			128.9	131.1	ML 1.9

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/10	18:48:34.8	+- 1.53	51.690N	7.060E	16.7	8.9	1	1G		6	3	304	2.1ML		SZGRF	I
1998/09/10	18:48:34.9	+- 1.15	51.680N	6.980E	12.2	5.6	149	1G		7	5	242	2.1ML	TNS	BGR	I
<b>1998/09/10</b>	<b>18:48:33.9</b>		<b>51.631N</b>	<b>6.943E</b>				<b>1G</b>					<b>1.8ML</b>		<b>RUB</b>	<b>I</b>

Dorsten, N of Bottrop

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	18:48:40.1	0.9	TA		31.0	133.1	ML 1.8
	e Sg E	18:48:44.9	2.2		3.6			
GSH	e Pg Z	18:48:53.6	1.6		5.1	107.0	201.9	ML 2.2
	e Sg E	18:49:07.9	3.4		3.8			
TNS	e Pg Z	18:49:05.2	-0.7			188.8	145.5	ML 2.1
	e Sg N	18:49:29.0	1.2		2.3			
WLF	e Sg E	18:49:40.8	2.4		2.6	225.7	194.6	
CLZ	e Sg N	18:49:42.3	0.6		2.2	237.3	83.0	ML 2.1

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/11	16:38:09.6	+- 1.12	51.690N	7.770E	16.7	11.1	6	1G		7	4	292	2.5ML		SZGRF	I
1998/09/11	16:38:10.8	+- 0.52	51.560N	7.820E	12.2	4.4	163	1G		10	6	187	2.4ML	CLZ	BGR	I
<b>1998/09/11</b>	<b>16:38:09.1</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg + Z	16:38:17.1	1.2	TA		40.1	235.2	ML 2.2
	e Sg E	16:38:23.1	2.5					
GSH	e Pg Z	16:38:33.8	1.1		5.5	139.0	223.8	ML 2.5
	e Sg N	16:38:51.2	2.4					
TNS	e Pg Z	16:38:37.9	0.7		4.5	165.9	162.4	ML 2.3
	e Sg E	16:38:59.2	2.7					
CLZ	e Pg Z	16:38:40.3	0.3		6.5	182.3	82.2	ML 2.4
	e Sg N	16:39:02.0	0.8					
WLF	e Sg N	16:39:17.6	-2.2			247.3	207.6	
MOX	e Pg Z	16:38:58.9	0.3		3.0	292.1	110.9	ML 2.6
	e Sg N	16:39:33.1	0.6					
CLL	e Sg	16:39:55.0	1.3			366.1	93.9	
BRG	e Sg	16:40:16.0	1.3			439.7	98.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/14	09:07:36.6	+- 0.40	48.100N	7.944E	6.0	3.8	68	14	+- 2.2	32		248	3.0ML		LDG	L
1998/09/14	09:07:35.5		48.137N	7.924E				10		20	13		2.6ML		SED	
1998/09/14	09:07:41.8		48.260N	8.220E				10G		7	5	292	2.2ML		SZGRF	L
1998/09/14	09:07:36.9		48.130N	7.980E				10G		12	7	234	2.8ML	TNS	BGR	L
ML= 3.1(VIE), ML= 3.0(FUR), ML= 2.6(STR)																
<b>1998/09/14</b>	<b>09:07:36.6</b>		<b>48.077N</b>	<b>7.955E</b>				<b>11</b>		<b>58</b>	<b>25</b>	<b>66</b>	<b>2.9ML</b>		<b>LEDBW</b>	<b>L</b>

Emmendingen/Upper Rhine Graben, N of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FBB	i Pg +	09:07:39.4	0.2	T		11.3	222.1	
	e Sg	09:07:41.3	0.3					
KIZ	i Pg +	09:07:39.6	0.0	T		13.7	191.5	ML 3.1
	i Sg	09:07:41.7	0.1					
FELD	i Pg -	09:07:41.0	0.2	T		22.6	170.7	
	e Sg	09:07:44.1	0.3					
BAW	e Pg +	09:07:43.2	0.1	T		37.2	214.0	
	e Sg	09:07:47.8	0.1					
BFO	e Pg +	09:07:43.5	-0.1	T		39.5	44.5	ML 1.8
	e Sg	09:07:48.2	-0.1					
END	e Pg +	09:07:44.2	0.1	T		43.4	202.0	
	e Sg	09:07:49.6	0.3					
BAS	SmS	09:07:52.9	-2.4	T		65.6	205.2	
	e Sg	09:07:56.6	1.0					
ENG	e Pg +	09:07:49.1	0.1	T		72.9	68.6	
	e PmP+	09:07:49.6	-1.9					
BBS	e Sg	09:07:57.9	0.2	T		75.8	206.2	
	e Pg +	09:07:49.8	0.3					
	e Sg	09:07:58.9	0.5	T				

MSS	e	Pg -	09:07:49.8	0.2	T	75.9	80.9	
	e	PmP+	09:07:50.3	-1.6	T			
	e	Sg	09:07:58.9	0.4	T			
	e	SmS	09:08:00.9	-1.5	T			
BHB	e	Pg +	09:07:50.5	0.2	T	80.1	75.9	
	e	PmP	09:07:51.0	-1.5	T			
	e	Sg	09:08:00.0	0.3	T			
JUN	e	Pg +	09:07:51.3	0.1	T	85.3	70.3	
	e	PmP+	09:07:51.7	-1.6	T			
	e	Sg	09:08:01.3	0.2	T			
	e	SmS	09:08:02.7	-2.0	T			
GUT	i	Pg +	09:07:51.4	0.1	T	86.2	90.0	ML 2.8
	i	PmP-	09:07:51.9	-1.6	T			
	e	Sg	09:08:01.7	0.3	T			
		SmS	09:08:02.8	-2.2	T			
LBG	i	Pn +	09:07:51.8	-1.6	T	90.0	43.2	ML 2.9
		PmP	09:07:52.4	-1.6				
	e	Sn	09:08:02.4	-2.7	T			
	i	SmS	09:08:03.8	-2.1	T			
HSN	e	Pn +	09:07:53.0	-1.0	T	95.2	74.2	
	e	PmP+	09:07:53.3	-1.5	T			
	e	Sn	09:08:04.2	-2.0	T			
	e	SmS	09:08:05.1	-2.2	T			
BEU	e	Pn +	09:07:55.8	-1.4	T	121.8	61.9	ML 2.6
	i	Pg +	09:07:57.4	0.1	T			
		Sn	09:08:08.6	-3.2				
	e	Sg	09:08:11.9	0.4	T			
UBR	e	Sn	09:08:20.8	-0.5	T	166.5	104.5	ML 2.8
	e	Sg	09:08:24.7	0.4				
HDH	i	Pg +	09:08:06.7	0.3	T	175.8	70.4	ML 2.7
	e	Sg	09:08:27.4	0.5	T			
TOD		Pg	09:08:06.2	-1.1		181.0	19.8	
	e	Sg	09:08:27.3	-1.1				
SIND		Pn	09:08:03.4	-1.7		186.2	40.0	ML 2.7
	e	Pg	09:08:08.1	-0.1	T			
		Sg	09:08:30.2	0.4				
RUP	e	Pg	09:08:09.2	0.0	T	192.1	340.4	
ABH	e	Pg +	09:08:10.4	-0.6	T	202.9	351.7	
	e	Sg	09:08:33.9	-0.7				
WLF	e	Pg	09:08:13.7	-0.2		2.9	220.3	323.9
	e	Sg	09:08:39.0	-0.6				
TNS	e	Sn	09:08:35.4	-1.7		241.2	8.3	ML 2.8
	e	Sg	09:08:44.7	-0.9				
FUR	i	Pg +	09:08:19.1	0.7		246.6	86.5	ML 3.2
	e	Sg	09:08:47.1	0.0				
GRC1	e	Sg	09:08:56.4	-0.8		281.7	67.4	
GRFO	e	Pg	09:08:27.0	-0.3		2.7	298.6	51.9
	e	Sg	09:08:55.5	-6.5				ML 3.1



GRA1	e	Pg	Z	09:08:27.0	-0.2				298.8	51.8	ML	3.0
	e	Sg	E	09:08:57.3	-4.7							
WET	e	Pg		09:08:41.4	0.2				380.8	70.0		
	e	Sg	N	09:09:23.8	-1.6							
MOX	e	Pg	Z	09:08:42.4	-0.3			1.8	389.5	41.5		
	e	Sg	N	09:09:25.4	-2.5							
GEC2	e	Pg	Z	09:08:48.7	-1.2			1.7	432.1	76.5		
	e	Sg	Z	09:09:40.1	0.0							

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/14	11:59:47.5		47.150N	9.315E				5G			16		2.6ML	VIE	NEIC	
1998/09/14	11:59:47.6	+- 1.18	47.160N	9.400E	13.3	6.7	8	10G		8	5	270	2.8ML	WET	BGR	L
1998/09/14	11:59:49.3	+- 1.00	47.220N	9.420E	12.0	6.0	5	10G		15	6	261	2.6ML		LEDBW	L
<b>1998/09/14</b>	<b>11:59:47.7</b>		<b>47.153N</b>	<b>9.345E</b>	<b>1.6</b>	<b>1.6</b>	<b>0</b>	<b>9</b>	<b>+- 3.1</b>	<b>21</b>	<b>12</b>	<b>131</b>	<b>2.4ML</b>		<b>SED</b>	

Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
UBR	e Pg +	12:00:02.4	0.7			82.1	44.1	ML 2.7
	i PmP+	12:00:04.5	0.4					
	e Sg	12:00:13.2	1.9					
	i SmS	12:00:16.9	1.6					
GUT	e Pg -	12:00:05.2	-0.1			103.5	350.5	ML 2.3
	e PmP-	12:00:06.5	-0.8					
	Sg	12:00:18.1	0.7					
	e SmS	12:00:19.5	-1.1					
KIZ	i Pn +	12:00:11.5	0.8			139.4	310.4	ML 2.8
	i Sn	12:00:28.0	1.1					
BFO	e Pg Z	12:00:13.5	0.1		9.1	151.3	330.3	ML 2.2
	e Sg E	12:00:31.0	-0.0					
BEU	i Pg +	12:00:15.0	0.3			159.2	1.9	ML 2.6
	e Sn	12:00:31.1	-0.0					
	e Sg	12:00:34.3	1.1					
HDH	e Sg	12:00:37.3	0.5			171.6	21.7	ML 2.7
FUR	e (Sg) Z	12:00:40.0	-0.0			183.0	51.4	ML 2.9
SIND	e Sn	12:00:49.9	0.7			244.9	4.4	ML 2.4
	e Sg	12:00:57.9	0.1					
GRFO	e Sg E	12:01:17.2	-0.3			314.3	25.4	ML 2.9
WET	e Pg Z	12:00:47.1	1.2		1.7	343.0	48.5	ML 2.8
	e Sg E	12:01:25.1	-0.6					
GEC2	e Pg Z	12:00:50.0	-1.2		2.7	374.7	58.3	ML 2.7
	e Sg N	12:01:32.6	-2.1					
MOX	e Sg N	12:01:48.1	-0.3			422.2	22.3	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/14	18:43:37.2	+- 1.91	54.268N	11.497E	39.7	14.1	82	0G		10	5	194	3.5ML		PIDC	
1998/09/14	18:43:43.3	+- 1.25	54.830N	12.570E	20.0	10.0	11	10G		7	4	290	2.5ML		SZGRF	L?
<b>1998/09/14</b>	<b>18:43:40.9</b>	<b>+- 1.14</b>	<b>55.040N</b>	<b>12.620E</b>	<b>17.8</b>	<b>10.0</b>	<b>3</b>	<b>0G</b>		<b>10</b>	<b>5</b>	<b>297</b>	<b>2.6ML</b>	<b>BSEG</b>	<b>BGR</b>	<b>L?</b>

E of S Sjalland Island/DK, Baltic Sea

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BSEG	e Pn Z	18:44:12.5	1.0	T	24.7	192.9	231.4	ML 2.6
	e Sn E	18:44:32.4	-0.8	T				
	e Sg Z	18:44:34.9	-1.1	T				
CLZ	e Pn Z	18:44:35.4	0.5	T	2.2	385.5	203.6	
	e Sn E	18:45:15.3	1.4	T				
CLL	e Pn Z	18:44:37.8	-0.9	T	3.5	415.8	176.3	
	e Sn N	18:45:20.7	0.3	T				
BRG	e Pn Z	18:44:44.1	-1.3	T	2.3	471.7	168.6	
	e Sn E	18:45:30.8	-1.4	T				
MOX	e Pn Z	18:44:47.6	-0.5	T	1.8	493.3	188.3	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/15	12:31:35.5	+- 3.50	54.278N	11.730E	36.2	30.0	30	0G		6	4	317	3.2ML		PIDC	
<b>1998/09/15</b>	<b>12:31:40.6</b>	<b>+- 0.63</b>	<b>54.460N</b>	<b>12.310E</b>	<b>11.1</b>	<b>7.8</b>	<b>168</b>	<b>0G</b>		<b>8</b>	<b>5</b>	<b>194</b>	<b>2.5ML</b>	<b>BSEG</b>	<b>BGR</b>	<b>L?</b>

Baltic Sea, N of Rostock

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
RGN	e Pg Z	12:31:52.7	0.9	T	4.1	66.0	81.1	
BSEG	e Pg Z	12:32:03.1	-1.5	T	7.0	142.2	246.6	ML 2.5
	e Sg E	12:32:22.7	1.6	T				
CLZ	e Pn Z	12:32:26.1	-0.4	T	1.6	318.5	204.7	ML 2.8
	e Sn E	12:32:59.1	-0.3	T				
CLL	e Pn E	12:32:29.0	-1.7	T	1.6	353.6	172.2	ML 3.0
	e Sg E	12:33:21.8	0.2	T				
MOX	e Pn Z	12:32:40.1	0.4	T	1.5	426.8	186.6	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/15	19:15:18.8	+- 0.59	51.680N	7.890E	8.9	3.3	159	1G		8	4	204	2.1ML		SZGRF	I
1998/09/15	19:15:18.1	+- 0.54	51.650N	7.950E	7.8	3.3	163	1G		10	6	197	2.1ML	TNS	BGR	I
<b>1998/09/15</b>	<b>19:15:16.8</b>		<b>51.688N</b>	<b>7.839E</b>				<b>1G</b>					<b>1.9ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	19:15:26.4	1.5	TA		48.0	235.3	ML 1.9
	e Sg N	19:15:33.7	3.1					

GSH	e	Pg	Z	19:15:42.9	1.2				5.8	146.8	224.5	ML	2.2
	e	Sg	N	19:16:02.0	3.3								
TNS	e	Pg	Z	19:15:46.2	0.8				1.9	168.4	165.1	ML	2.1
	e	Sg	E	19:16:04.8	-0.2								
CLZ	e	Pg	Z	19:15:46.6	0.1				5.3	175.2	83.4	ML	2.1
	e	Sg	E	19:16:06.9	0.1								
WLF	e	Sg	E	19:16:30.3	0.8					254.4	208.5		
MOX	e	Sg	E	19:16:37.3	-1.7					287.7	112.3	ML	2.3

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/16	03:15:44.4	+-	0.85	51.630N	7.750E	12.2	4.4	175	1G		8	4	232	2.5ML		SZGRF	I
1998/09/16	03:15:43.2	+-	0.49	51.650N	7.800E	5.6	2.2	164	1G		15	7	204	2.5ML	TNS	BGR	I
<b>1998/09/16</b>	<b>03:15:42.1</b>			<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	03:15:50.1	1.2	TA		40.1	235.2	ML 2.2
	e Sg E	03:15:56.1	2.5					
GSH	e Pg Z	03:16:06.6	0.9		6.0	139.0	223.8	ML 2.5
	e Sg E	03:16:24.4	2.6					
TNS	e Pn Z	03:16:10.2	0.9			165.9	162.4	ML 2.5
	e Pg Z	03:16:11.3	1.1		9.1			
	e Sg E	03:16:29.5	0.0					
CLZ	e Pn Z	03:16:12.1	0.8			182.3	82.2	ML 2.5
	e Pg Z	03:16:13.7	0.7		5.8			
	e Sg E	03:16:33.8	-0.4					
MOX	i (Pn)	03:16:26.8	2.1			292.1	110.9	ML 2.7
	e Pg Z	03:16:32.6	1.0		3.4			
	e Sg N	03:17:06.0	0.5					
GRFO	e Pg Z	03:16:38.5	0.9		1.2	327.6	130.2	ML 2.9
	e Sg E	03:17:16.9	1.2					
CLL	e Pg	03:16:46.0	1.9			366.1	93.9	
	e Sg	03:17:30.0	3.3					
BFO	e Pn Z	03:16:35.4	1.1			371.2	173.3	
BRG	e Sg	03:17:48.7	1.0			439.7	98.9	

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/16	23:30:13.1			51.580N	6.570E				1G		6	3	279	2.0ML		SZGRF	I
1998/09/16	23:30:10.3			51.630N	6.450E				1G		10	5	257	2.3ML	TNS	BGR	I
<b>1998/09/16</b>	<b>23:30:11.1</b>			<b>51.535N</b>	<b>6.551E</b>				<b>1G</b>					<b>1.9ML</b>		<b>RUB</b>	<b>I</b>

Moers, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg	Z 23:30:21.3	1.6	TA		50.8	101.6	ML 1.9
	e Sg	E 23:30:28.9	3.3					
GSH	e Pg	Z 23:30:27.7	1.4		8.0	89.5	187.9	ML 2.0
	e Sg	E 23:30:39.6	2.9					
TNS	e Pg	Z 23:30:45.4	0.8		8.8	197.4	136.9	ML 2.3
	e Sg	E 23:31:10.0	2.4					
WLF	e Pg	Z 23:30:47.4	0.7		3.6	209.9	187.9	
	e Sg	N 23:31:12.0	0.9					
CLZ	e Pg	Z 23:30:56.9	0.7		1.9	265.6	81.1	ML 2.5
	e Sg	N 23:31:26.5	-0.4					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/17	17:00:30.7		52.030N	7.820E				10G			5		2.5ML	STR	NEIC	
	ML= 2.2(UCC), Poor solution															
1998/09/17	17:00:34.0		51.630N	7.930E				1G		13	6	195	2.3ML	TNS	BGR	I
<b>1998/09/17</b>	<b>17:00:32.2</b>		<b>51.688N</b>	<b>7.839E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg	- Z 17:00:41.8	1.5	TA		48.0	235.3	ML 2.2
	e Sg	E 17:00:49.0	3.0					
GSH	e Pg	Z 17:00:58.0	0.9		8.9	146.8	224.5	ML 2.4
	e Sg	N 17:01:17.3	3.1					
TNS	e Pn	Z 17:01:01.5	1.8			168.4	165.1	ML 2.3
	e Pg	Z 17:01:02.6	1.8					
	e Sg	E 17:01:19.9	-0.4					
CLZ	e Pn	Z 17:01:02.0	1.5			175.2	83.4	ML 2.4
	e Pg	Z 17:01:03.5	1.6					
	e Sg	N 17:01:22.5	0.2					
WLF	e Pg	Z 17:01:15.8	0.5		2.3	254.4	208.5	
	e Sg	E 17:01:45.2	0.3					
MOX	e Pg	17:01:15.8	-5.2			287.7	112.3	ML 2.5
	e Sg	N 17:01:53.8	-0.6					
CLL	e Sg	17:02:18.0	3.0			359.9	94.7	
BRG	e Sg	17:02:35.4	-0.8			434.0	99.7	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/18	00:00:11.7		51.474N	7.777E				10G			8		3.2ML	GRF	NEIC	
	ML= 2.7(CLL), ML= 2.6(UCC), Less reliable solution															
1998/09/18	00:00:08.1		51.830N	7.570E				1G		14	8	242	3.0ML		SZGRF	I
1998/09/18	00:00:11.5		51.560N	7.840E				1G		26	12	139	2.8ML	MOX	BGR	I
<b>1998/09/18</b>	<b>00:00:09.8</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.7ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	00:00:17.8	1.2	TA		40.1	235.2	ML 2.7
	e Sg N	00:00:23.6	2.4					
GSH	e Pg Z	00:00:34.0	0.7		16.4	139.0	223.8	ML 2.8
	e Sg E	00:00:51.4	1.8					
TNS	e Pg Z	00:00:37.3	-0.6		19.0	165.9	162.4	ML 2.7
	e Sg E	00:00:54.4	-2.8					
CLZ	e Pn Z	00:00:39.3	0.3		3.0	182.3	82.2	ML 2.9
	e Pg Z	00:00:41.1	0.4					
	e Sg E	00:01:02.7	0.9					
MOX	e Pn Z	00:00:54.0	1.7		3.2	292.1	110.9	ML 2.8
	e Pg Z	00:00:59.1	-0.2					
	e Sg N	00:01:33.4	0.1					
BSEG	e Pn Z	00:00:55.2	1.0		1.8	307.6	33.2	
	e Sn E	00:01:28.9	2.7					
GRA1	e Pn Z	00:00:58.6	1.9			327.6	130.2	ML 3.2
	e Sg N	00:01:49.2	5.8					
GRFO	e Pn Z	00:00:58.3	1.6		3.2	327.6	130.2	
CLL	e Pn Z	00:01:00.9	-0.5		10.1	366.1	93.9	ML 3.1
	e Pg Z	00:01:12.1	0.3					
	e Sg N	00:01:54.4	-0.0					
BFO	e Pn Z	00:01:02.8	0.8		5.3	371.2	173.3	
	e Sn N	00:01:41.0	1.4					
BRG	e Pn Z	00:01:12.5	2.1		2.9	439.7	98.9	ML 3.1
	e Pg E	00:01:24.2	-0.1					
	e Sg N	00:02:15.2	-0.3					
WET	e Pn Z	00:01:14.2	1.6		2.0	458.0	125.4	ML 3.1
	e Sg N	00:02:18.6	-2.1					
GEC2	e Pn Z	00:01:21.7	0.9		1.7	525.6	124.0	
	e Sg N	00:02:37.5	-2.5					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/18	01:52:45.0	+ - 1.21	47.047N	9.104E	21.6	15.6	166	2	+ - 0.0	6		314	2.2ML		LDG	L
1998/09/18	01:52:43.9		47.100N	9.260E				2G			8		2.2ML		STR	
1998/09/18	01:52:45.1		47.170N	9.330E				5G		7	4	278	1.9ML	BFO	BGR	L
ML= 2.0(VIE)																
<b>1998/09/18</b>	<b>01:52:44.2</b>		<b>47.154N</b>	<b>9.353E</b>				<b>10</b>		<b>17</b>	<b>10</b>		<b>1.8ML</b>		<b>SED</b>	

Vaduz/Liechtenstein, Swiss-Liechtenstein-Austrian border reg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BFO	e Pg Z	01:53:10.1	0.2		4.8	151.5	330.0	ML 1.9
	e Sg N	01:53:28.0	0.4					
FUR	e Sg N	01:53:38.3	1.9			182.5	51.4	
GRFO	e Sg E	01:54:14.3	0.4			313.9	25.3	

WET	e	Pg	E	01:53:42.9	0.6	1.5	342.5	48.5
	e	Sn	E	01:54:08.6	2.4			
	e	Sg	E	01:54:22.5	0.4			

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/18	05:47:55.8	+ - 0.61	48.093N	7.771E	9.9	5.5	95	2	+ - 0.0	14		263	2.5ML		LDG	L
1998/09/18	05:47:57.5		48.075N	7.775E				10		16	10		1.9ML		SED	
1998/09/18	05:47:57.0		48.140N	7.790E				10G		4	3	309			BGR	L
			ML= 1.9(STR)													
<b>1998/09/18</b>	<b>05:47:56.4</b>		<b>48.100N</b>	<b>7.750E</b>				<b>8</b>		<b>34</b>	<b>18</b>	<b>49</b>	<b>2.1ML</b>		<b>LEDBW</b>	<b>L</b>

Emmendingen/Upper Rhine Graben, N of Freiburg

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
FBB	Pg	05:47:59.3	0.3	T		13.4	144.9	
	Sg	05:48:01.4	0.6	T				
KIZ	i Pg -	05:48:00.1	0.0	T		20.3	141.9	ML 1.7
	i Sg	05:48:02.6	0.0	T				
FELD	i Pg -	05:48:02.1	0.2	T		31.2	142.7	
	i Sg	05:48:06.0	0.4	T				
BFO	e Pg +	05:48:05.0	0.0	T		50.0	59.0	
	e Sg	05:48:11.5	0.6	T				
BBS	e Pg +	05:48:09.2	0.3	T		72.9	194.4	
	e Sg	05:48:18.5	1.1	T				
	e SmS	05:48:19.7	-2.3	T				
SPAK	e Pg -	05:48:10.4	0.9	T		76.9	89.4	
LBG	i PmP-	05:48:13.7	-1.7	T		99.4	50.5	ML 2.0
	i Sn	05:48:25.4	-2.0	T				
	i SmS	05:48:26.2	-2.2	T				
GUT	e Pn +	05:48:13.8	-1.1	T		101.5	91.3	ML 2.1
	e Pg +	05:48:14.1	0.5	T				
	i PmP-	05:48:14.3	-1.4	T				
	e Sg	05:48:25.9	0.4	T				
	i SmS	05:48:27.0	-1.9	T				
KTD	e Sg	05:48:36.3	0.5	T		137.9	10.1	
UBR	i Sg	05:48:48.8	0.4			181.9	104.0	ML 2.3
TOD	e Sg	05:48:48.7	-0.4	T		184.3	24.3	
RUP	i Pg +	05:48:27.8	0.0	T		185.1	344.4	
SIND	e Pg +	05:48:29.7	0.3			194.4	43.7	ML 2.3
	e Sg	05:48:52.8	0.8	T				
ABH	e Pg -	05:48:30.0	-0.1	T		198.7	355.8	
TNS	e Sg	05:49:04.8	-0.6			241.4	11.9	
GRFO	e Sg	05:49:23.7	-1.1			309.2	53.8	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/19	04:11:59.8		51.650N	7.900E				1G		8	4	199	2.3ML		SZGRF	I
1998/09/19	04:11:57.6		51.720N	7.970E				1G		17	9	206	2.4ML	GSH	BGR	I
<b>1998/09/19</b>	<b>04:11:57.4</b>		<b>51.693N</b>	<b>7.851E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District



Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	04:12:07.2	1.5	TA		49.0	235.3	ML 2.2
	e Sg E	04:12:14.4	3.0					
GSH	e Pg Z	04:12:23.4	1.0		2.0	147.8	224.6	ML 2.4
	e Sg E	04:12:42.6	3.0					
TNS	e Pn Z	04:12:25.2	0.3		1.3	168.8	165.4	ML 2.3
	e Sg N	04:12:45.7	0.1					
CLZ	e Pg Z	04:12:25.9	-1.0		8.7	174.3	83.6	ML 2.3
	e Sg N	04:12:45.0	-2.2					
WLF	e Pg Z	04:12:40.2	-0.4		2.9	255.3	208.6	
	e Sg N	04:13:11.7	1.3					
MOX	e Pg	04:12:47.9	1.8			287.2	112.5	ML 2.5
	e Sg N	04:13:17.0	-2.4					
GRFO	e Pn Z	04:12:43.0	-1.0		1.5	325.4	131.9	ML 2.7
	e Sg E	04:13:30.0	-0.3					
CLL	e Pg Z	04:12:58.3	0.0		1.9	359.1	94.8	ML 2.7
	e Sg E	04:13:38.3	-1.7					
BFO	e Pn Z	04:12:51.3	1.2		1.7	375.5	174.6	
	e Sn N	04:13:30.0	1.9					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/19	23:40:49.5	+/- 0.52	51.566N	6.904E	12.9	10.4	123	2	+/- 0.0	13		299	2.3ML		LDG	L
<b>1998/09/19</b>	<b>23:40:48.3</b>		<b>51.710N</b>	<b>6.990E</b>				<b>1G</b>		<b>8</b>	<b>4</b>	<b>243</b>	<b>1.8ML</b>		<b>SZGRF</b>	<b>I</b>

Dorsten, N of Bottrop

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	e Pg Z	23:40:54.1	-0.3	T		35.6	147.1	ML 1.7
	e Sg E	23:40:58.8	0.3					
GSH	e Pg Z	23:41:06.9	-1.1	T		116.3	201.8	ML 1.7
	e Sg N	23:41:22.9	1.3					
TNS	e Pg Z	23:41:18.6	-2.7	T		194.3	147.8	ML 2.1
	e Sg N	23:41:43.7	-0.1					
CLZ	e Pg Z	23:41:25.3	-2.5	T		233.1	85.1	
	e Sg N	23:41:56.7	1.8					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/20	02:52:54.5	+/- 0.37	47.411N	11.297E	7.2	4.6	48	2	+/- 0.0	41		287	3.2ML		LDG	L
1998/09/20	02:52:51.8		47.331N	11.308E				5G			73		3.5ML	GRF	NEIC	
ML= 3.3(STR), ML= 3.2(FUR,VIE), Intensity = IV (MSK) at Innsbruck																
1998/09/20	02:52:50.2		47.136N	11.555E				10		32	26		3.1ML		SED	
1998/09/20	02:52:53.3		47.330N	11.330E				10G		36	21	300	3.1ML		LEDBW	L
1998/09/20	02:52:51.4		47.220N	11.350E				10G		31	11	256	3.3ML		SZGRF	L
<b>1998/09/20</b>	<b>02:52:52.8</b>		<b>47.250N</b>	<b>11.440E</b>				<b>5G</b>		<b>35</b>	<b>13</b>	<b>255</b>	<b>3.3ML</b>	<b>GRFO</b>	<b>BGR</b>	<b>L</b>

Innsbruck, Hall/A



Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
SCE	i Pg -	02:52:58.5	0.4			31.1	138.9	
	i Sg	02:53:04.4	2.6					
FUR	e Pg Z	02:53:08.9	-1.3	T	76.6	102.3	353.1	ML 3.3
	e Sg E	02:53:22.7	0.7	T				
UBR	e Pg +	02:53:09.3	-2.3			111.0	296.1	ML 3.2
	i PmP	02:53:12.4	-1.4					
	Sg	02:53:23.6	-0.9					
	e SmS	02:53:27.8	-0.3					
BHG	e Pg	02:53:15.4	2.2			120.1	63.6	
HDH	e Pn	02:53:18.8	-1.7			174.5	328.7	ML 3.4
	e Pg -	02:53:20.4	-2.0					
	e Sn	02:53:39.3	-1.0					
	e Sg	02:53:41.3	-1.4					
HTN	e Pg +	02:53:20.0	-2.8			177.1	300.1	
	e Sg	02:53:42.6	-0.8					
GRC1	e Pn Z	02:53:21.6	-1.4			194.2	1.7	ML 3.1
	e Sn N	02:53:45.4	0.9					
	e Sg E	02:53:47.7	-0.6					
GUT	e Pn	02:53:23.1	-0.1			196.5	298.5	ML 2.8
	e Sg	02:53:46.8	-2.2					
HSN	e Sg	02:53:48.9	-2.4			204.7	305.8	
BEU	e Pn -	02:53:23.8	-1.3			211.6	315.3	ML 2.9
	e Pg +	02:53:26.5	-2.2					
	e Sg	02:53:50.9	-2.3					
JUN	e Pg +	02:53:24.3	-5.1			215.7	304.7	
WET	e Pn Z	02:53:27.8	-0.2	T		236.0	26.3	ML 2.9
	e Sn N	02:53:55.1	1.9	T				
	e Sg N	02:54:00.6	0.4	T				
GEC2	e Pn Z	02:53:29.5	0.5	T		244.3	42.6	ML 3.0
	e Sg N	02:54:03.3	0.7	T				
LBG	e Pn	02:53:28.8	-1.2			252.0	309.6	ML 3.0
	e Pg +	02:53:33.2	-2.3					
	e Sn	02:53:56.7	0.1					
BFO	e Pn Z	02:53:30.1	-1.1	T		261.5	298.5	ML 3.0
	e Sn E	02:53:59.5	0.9	T				
	e Sg N	02:54:05.4	-2.1					
FELD	e Pn	02:53:32.1	0.2			267.0	286.4	
SIND	e Pn	02:53:30.3	-1.8			269.9	330.5	ML 3.2
	e Pg +	02:53:36.6	-1.9					
	e Sg	02:54:08.0	-1.9					
GRFO	e Pn Z	02:53:30.5	-1.9	T	30.1	271.9	356.7	ML 3.3
	e Pg Z	02:53:37.5	-1.4	T	3.5			
	e Sg N	02:54:09.8	-0.6	T				
GRA1	e Pn Z	02:53:31.0	-1.4			272.0	356.7	ML 3.5
	e Sn N	02:54:00.5	-0.4					
	e Sg N	02:54:11.0	0.5					

KIZ	e	Pn	+	02:53:32.7	-0.2					275.4	287.9	ML	3.1
	e	Pg		02:53:38.9	-0.6								
		Sn		02:54:02.3	0.7								
	e	Sg		02:54:09.1	-2.4								
BAW	e	Pg	-	02:53:35.1	-6.7					289.0	283.6		
	e	Sg		02:54:12.6	-2.8								
BBS	e	Pn	-	02:53:35.7	0.2					297.0	276.0		
TOD	e	Pn		02:53:35.7	-3.3					326.2	324.4		
HOF	e	Pn		02:53:46.4	5.4					342.1	5.2		
MOX	e	Pn	Z	02:53:43.6	-1.7	T	14.8			377.7	1.9	ML	3.3
	e	Pg	Z	02:53:57.7	0.9	T	1.4						
	e	Sn	E	02:54:23.9	0.7	T							
	e	Sg	E	02:54:39.8	-0.9	T							
TNS	e	Pn	Z	02:53:47.4	-0.2	T	12.1			396.7	327.5	ML	3.5
	e	Pg	Z	02:54:00.0	-0.0	T	1.1						
	e	Sn	N	02:54:28.6	1.4	T							
	e	Sg	E	02:54:46.0	-0.1	T							
ABH	e	Pn	-	02:53:49.0	-0.1					409.4	317.1		
RUP		Pg		02:53:51.4	-13.0					422.5	311.8		
	e	Sg		02:54:52.7	-0.8								
BRG	e	Pn	Z	02:53:51.4	-1.8	T	7.7			442.1	23.4	ML	3.3
	e	Pg	Z	02:54:07.3	-0.4	T	2.7						
	e	Sn	N	02:54:37.7	0.8	T							
	e	Sg	N	02:54:58.1	-1.0	T							
CLL	e	Pn	Z	02:53:55.1	-0.9	T	6.5			465.2	13.5	ML	3.6
	e	Pg	Z	02:54:11.3	-0.3	T	2.4						
	e	Sn	N	02:54:43.5	1.8	T							
	e	Sg	E	02:55:04.2	-1.5	T							
CLZ	e	Pn	Z	02:54:01.7	-0.5	T	4.4			516.3	351.8	ML	3.6
	e	Pg	Z	02:54:20.7	0.4	T	2.0						
	e	Sn	N	02:54:52.8	0.3	T							
	e	Sg	E	02:55:18.2	-2.1	T							
GSH	e	Pn	Z	02:54:04.8	0.3	T				535.3	318.3		
BUG	e	Pn	Z	02:54:07.5	0.6	T				555.1	328.6		
BSEG	e	Pn	Z	02:54:29.3	-1.2	T				747.5	354.3		

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/21	11:57:08.8	+- 1.53	51.740N	7.650E	34.5	4.4	151	1G		6	3	226	2.4ML		SZGRF	I
1998/09/21	11:57:09.1	+- 0.41	51.540N	7.860E	6.7	3.3	158	1G		12	6	182	2.4ML	GSH	BGR	I
<b>1998/09/21</b>	<b>11:57:07.6</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.4ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	11:57:15.6	1.2	TA		40.1	235.2	ML 2.4
	e Sg N	11:57:21.6	2.5					

GSH	e	Pg	Z	11:57:32.2	1.0	8.7	139.0	223.8	ML	2.4
	e	Sg	E	11:57:49.3	2.0					
TNS	e	Pg	Z	11:57:35.3	-0.4	4.4	165.9	162.4	ML	2.3
	e	Sg	E	11:57:52.4	-2.6					
CLZ	e	Pn	Z	11:57:37.3	0.6	7.7	182.3	82.2	ML	2.4
	e	Pg	Z	11:57:38.8	0.3	7.7				
	e	Sg	N	11:58:00.1	0.4					
WLF	e	Pg	Z	11:57:49.4	-0.2	1.4	247.3	207.6		
	e	Sg	N	11:58:16.9	-1.4					
CLL	e	Sg		11:58:56.0	3.8		366.1	93.9		
BRG	e	Sg		11:59:13.9	0.7		439.7	98.9		
WET	e	Pn	E	11:58:10.5	0.1	1.2	458.0	125.4		

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/21	11:57:51.0	+/- 0.54	51.600N	7.810E	8.9	4.4	161	1G		8	4	195	2.4ML	GSH	BGR	I
<b>1998/09/21</b>	<b>11:57:49.5</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.4ML</b>		<b>RUB</b>	<b>I</b>

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Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	11:57:57.5	1.2	TA		40.1	235.2	ML 2.4
	e Sg N	11:58:03.3	2.4					
GSH	e Pg Z	11:58:14.1	1.1		1.0	139.0	223.8	ML 2.4
	e Sg N	11:58:31.5	2.3					
TNS	e Pg Z	11:58:18.1	0.5		0.6	165.9	162.4	ML 2.2
	e Sg E	11:58:36.5	-0.4					
CLZ	e Pg Z	11:58:20.7	0.3		0.7	182.3	82.2	ML 2.4
	e Sg N	11:58:43.2	1.6					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/22	14:18:56.0	+/- 0.58	51.670N	7.780E	10.0	4.4	157	1G		8	4	208	2.4ML		SZGRF	I
1998/09/22	14:18:56.5	+/- 0.46	51.560N	7.850E	8.9	4.4	160	1G		12	7	186	2.4ML	GSH	BGR	I
<b>1998/09/22</b>	<b>14:18:55.1</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	14:19:03.1	1.2	TA		40.1	235.2	ML 2.2
	e Sg E	14:19:08.9	2.4					
GSH	e Pg Z	14:19:19.9	1.2		3.6	139.0	223.8	ML 2.4
	e Sg E	14:19:37.1	2.3					
TNS	e Pn Z	14:19:22.6	0.4		1.9	165.9	162.4	ML 2.3
	e Sg E	14:19:41.3	-1.2					
CLZ	e Pg Z	14:19:26.3	0.4		5.3	182.3	82.2	ML 2.4
	e Sg E	14:19:46.5	-0.6					

WLF	e	Pg	Z	14:19:38.5	1.4				1.7	247.3	207.6						
	e	Sg	N	14:20:03.2	-2.6												
MOX	e	Pg	E	14:19:44.9	0.3				1.5	292.1	110.9						
CLL	e	Sg		14:20:41.0	1.3					366.1	93.9						
BFO	e	Pn	Z	14:19:48.0	0.7				1.5	371.2	173.3						

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/22	22:59:09.7	+/- 0.52	51.650N	7.950E	10.0	4.4	161	1G		8	4	197	2.2ML		SZGRF	I
1998/09/22	22:59:08.4	+/- 0.64	51.770N	7.880E	8.9	3.3	162	1G		15	8	217	2.3ML	GSH	BGR	I
<b>1998/09/22</b>	<b>22:59:08.4</b>		<b>51.688N</b>	<b>7.839E</b>				<b>1G</b>					<b>2.1ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	22:59:18.0	1.5	TA		48.0	235.3	ML 2.1
	e Sg N	22:59:24.9	2.7					
GSH	e Pg Z	22:59:34.1	0.8		5.8	146.8	224.5	ML 2.3
	e Sg N	22:59:52.4	2.1					
TNS	e Pn Z	22:59:37.6	1.7		1.9	168.4	165.1	ML 2.2
	e Sg E	22:59:56.2	-0.3					
CLZ	e Pg Z	22:59:37.1	-1.0		6.2	175.2	83.4	ML 2.2
	e Sg E	22:59:58.3	-0.2					
WLF	e Pg Z	22:59:51.9	0.4		2.0	254.4	208.5	
	e Sg E	23:00:24.0	2.9					
MOX	e Pg Z	22:59:58.3	1.1		1.6	287.7	112.3	ML 2.4
	e Sg N	23:00:29.9	-0.7					
GRFO	e Sg N	23:00:43.5	2.1			325.6	131.7	ML 2.6
CLL	e Sg	23:00:53.0	1.8			359.9	94.7	
BFO	e Pn Z	23:00:02.6	1.6		1.9	375.0	174.4	
	e Sn N	23:00:41.2	2.2					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/23	04:37:53.5		51.161N	5.744E				5G			11		2.4ML	STR	NEIC	
	ML= 2.3(UCC), Less reliable solution															
1998/09/23	04:37:55.1	+/- 0.41	51.026N	5.748E	6.3	4.3	36	2	+/- 0.0	24		281	2.8ML		LDG	L
<b>1998/09/23</b>	<b>04:37:54.8</b>		<b>51.100N</b>	<b>5.870E</b>				<b>10G</b>		<b>8</b>	<b>4</b>	<b>255</b>	<b>2.3ML</b>	<b>BUG</b>	<b>BGR</b>	<b>L</b>

Waldfeucht, S of Roermond/NL, Dutch-German border region

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
GSH	e Pg Z	04:38:04.8	0.8	T	9.7	53.8	138.4	ML 2.4
	e Sg E	04:38:11.2	0.8	T				
BUG	e Pg Z	04:38:12.3	-0.3	T	5.2	104.4	68.2	ML 2.3
	e Sg N	04:38:25.0	0.2	T				

WLF	e	Pg	Z	04:38:22.5	0.4	T	4.7	160.9	172.7								
	e	Sg	E	04:38:39.9	-1.0	T											
TNS	e	Pg	Z	04:38:28.5	-1.3	T	2.9	206.2	117.2	ML	2.3						
	e	Sg	E	04:38:53.0	-0.7	T											

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/23	09:50:27.0		48.653N	8.906E				10G			7		2.0ML	STR	NEIC	

Calw/Black Forest

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/24	09:38:53.5	+ - 0.50	47.479N	7.255E	11.6	4.9	103	2	+ - 0.0	8		221	2.2ML		LDG	L

SE of Belfort/F, French-Swiss border region

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/25	12:45:57.0	+ - 0.57	51.650N	7.830E	8.9	3.3	160	1G		8	4	202	2.1ML	GSH	BGR	I
1998/09/25	12:45:56.2		51.647N	7.744E				1G					2.0ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	12:46:04.2	1.2	TA		40.1	235.2	ML 2.0
	e Sg E	12:46:10.2	2.5					
GSH	e Pg Z	12:46:20.9	1.1		3.5	139.0	223.8	ML 2.1
	e Sg E	12:46:38.6	2.7					
TNS	e Pg Z	12:46:25.1	0.8		3.0	165.9	162.4	ML 2.0
	e Sg E	12:46:43.8	0.2					
CLZ	e Pg Z	12:46:27.2	0.1		3.4	182.3	82.2	ML 2.3
	e Sg E	12:46:47.8	-0.4					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/25	19:48:05.9	+ - 0.96	48.290N	7.509E	19.6	7.5	89	2	+ - 0.0	6		274			LDG	L

Selestat/F, SSW of Strasbourg/Upper Rhine Graben

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/26	08:05:26.5		48.827N	10.216E				5G			8		2.5ML	STR	NEIC	
ML= 2.4(VIE)																
<b>1998/09/26</b>	<b>08:05:26.4</b>		<b>48.780N</b>	<b>10.160E</b>				<b>0G</b>		<b>9</b>	<b>6</b>	<b>120</b>	<b>1.9ML</b>	<b>BFO</b>	<b>BGR</b>	<b>B</b>

Heidenheim/Swabian Jura

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
FUR	e Pg	Z	08:05:44.6	0.1	T	3.4	107.1	129.4	ML 2.1
	e Sg	E	08:05:58.3	1.3	T				
GRFO	e Pg	Z	08:05:47.7	-0.2	T	1.3	127.2	36.8	ML 1.9
	e Sg	E	08:06:03.9	1.2	T				
BFO	e Pg	Z	08:05:50.3	-0.4	T	6.1	143.7	250.3	ML 1.9
	e Sg	N	08:06:07.2	-0.2	T				
WET	e Sg	N	08:06:22.9	-1.3	T		202.5	77.5	ML 1.9
TNS	e Sg	E	08:06:25.0	0.8	T		202.5	323.0	ML 2.1
MOX	e Pg		08:06:01.8	-3.9			232.2	26.2	
	e Sg		08:06:33.6	0.9					
GEC2	e Sg	N	08:06:40.1	-0.4	T		259.4	87.1	ML 2.0

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/26	08:56:57.5	+ - 0.58	51.680N	7.920E	10.0	4.4	159	1G		8	4	203	2.1ML		SZGRF	I
1998/09/26	08:56:56.5	+ - 0.67	51.730N	7.840E	10.0	5.6	154	1G		6	4	213	2.2ML	TNS	BGR	I
<b>1998/09/26</b>	<b>08:56:55.8</b>		<b>51.688N</b>	<b>7.839E</b>				<b>1G</b>					<b>1.9ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase		Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg	- Z	08:57:05.4	1.5	TA		48.0	235.3	ML 1.9
	e Sg	E	08:57:12.4	2.8					
GSH	e Pg	Z	08:57:21.5	0.8			146.8	224.5	ML 2.2
	e Sg	E	08:57:40.9	3.2					
TNS	e Pg	Z	08:57:25.1	0.8			168.4	165.1	ML 2.2
	e Sg	N	08:57:45.9	2.0					
CLZ	e Pn	Z	08:57:24.8	0.7			175.2	83.4	ML 2.0
	e Pg	Z	08:57:26.0	0.5					
	e Sg	E	08:57:46.7	0.8					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/26	18:30:30.1	+ - 0.55	51.620N	7.810E	7.8	3.3	160	1G		8	4	198	2.2ML		SZGRF	I
<b>1998/09/26</b>	<b>18:30:28.3</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.0ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	18:30:36.3	1.2	TA		40.1	235.2	ML 2.0
	e Sg E	18:30:42.2	2.5					
GSH	e Pg Z	18:30:52.6	0.8			139.0	223.8	ML 2.2
	e Sg N	18:31:10.6	2.6					
TNS	e Pg Z	18:30:56.3	-0.1			165.9	162.4	ML 2.2
	e Sg E	18:31:15.9	0.2					
CLZ	e Pg Z	18:30:59.4	0.2			182.3	82.2	ML 2.4
	e Sg N	18:31:20.9	0.5					
MOX	e (Pg)	18:31:19.7	1.9			292.1	110.9	
	e Sg	18:31:56.8	5.0					
CLL	e Sg	18:32:15.0	2.1			366.1	93.9	
BRG	e Sg	18:32:38.7	4.8			439.7	98.9	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/28	00:08:37.7	+ - 0.52	48.286N	8.902E	8.7	6.3	32	14G		23		291	2.6ML		LDG	L
1998/09/28	00:08:36.1		48.378N	8.955E				10		16	10		2.1ML		SED	
1998/09/28	00:08:35.9		48.400N	9.010E				10G		10	6	163	2.5ML	FUR	BGR	L
			ML= 2.5(VIE), ML= 2.3(FUR,STR)													
1998/09/28	00:08:36.3		48.470N	8.980E				10G		15	6	151	2.1ML		SZGRF	L
<b>1998/09/28</b>	<b>00:08:35.9</b>		<b>48.373N</b>	<b>9.008E</b>				<b>9</b>		<b>23</b>	<b>11</b>	<b>69</b>	<b>2.0ML</b>		<b>LEDBW</b>	<b>L</b>

## Ebingen/Swabian Jura

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
MSG	e Pb	00:08:39.5				3.5	34.7	
	e Pg -	00:08:37.8	0.1	T				
	e Sg	00:08:39.1	0.3	T				
JUN	e Pb	00:08:39.0				5.3	152.9	
	i Pg -	00:08:37.9	0.2	T				
ENG	e Sg	00:08:39.1	0.1	T				
	e Pg +	00:08:38.7	0.2	T		12.0	236.1	
BHB	e Sg	00:08:40.7	0.4	T				
	e Pb	00:08:42.0				14.0	181.1	
HSN	e Pg -	00:08:39.0	0.3	T				
	e Sg	00:08:41.3	0.5	T				
SPAK	e Pg +	00:08:39.2	0.2	T		15.7	119.1	
	e Sg	00:08:41.6	0.4	T				
GUT	i Pg +	00:08:42.2	0.3	T		34.3	208.7	
	e Sg	00:08:46.4	0.3	T				
LBG	i Pg +	00:08:42.1	0.1	T		34.5	166.7	ML 2.0
	e Sg	00:08:46.4	0.3	T				
BEU	e Pg	00:08:42.3	0.1	T		36.0	334.2	ML 1.8
	i Sg	00:08:46.8	0.3	T				
BEU	i Pg +	00:08:42.7	0.1	T		38.1	51.9	ML 1.7
	i Sg	00:08:47.6	0.5	T				

BFO	e	Pg +	00:08:44.7	0.1	T	50.4	264.8	ML 1.6
	e	PmP+	00:08:46.7	-1.3	T			
	e	Sg	00:08:50.8	0.2	T			
	e	SmS	00:08:54.2	-2.2	T			
HDH	e	Pg +	00:08:51.4	-0.1		91.4	74.7	ML 2.4
	i	PmP	00:08:51.8	-1.9				
	e	Sg	00:09:02.5	0.3				
	e	SmS	00:09:04.3	-1.5				
FELD	e	Pg +	00:08:51.8	0.0		92.7	233.8	
	e	Sg	00:09:02.8	0.2				
KIZ	i	Pg +	00:08:51.7	-0.1		93.2	240.6	ML 2.4
	i	PmP+	00:08:52.3	-1.6				
	e	Sg	00:09:02.5	-0.1				
	e	SmS	00:09:04.1	-2.1				
UBR	e	Pn +	00:08:55.4	-0.2		112.3	132.8	ML 2.3
	i	Pg +	00:08:55.8	0.7				
	i	Sx	00:09:14.2					
	e	Sg	00:09:09.9	1.8				
SIND	e	Pn	00:08:54.8	-1.4		117.0	21.7	ML 2.6
	i	Pg -	00:08:55.7	-0.1				
	e	Sn	00:09:08.4	-1.9				
	e	Sg	00:09:09.8	0.4				
BAW	e	Pn +	00:08:54.5	-1.8		117.7	237.7	
	e	Pg +	00:08:56.0	0.1				
	e	Sg	00:09:10.2	0.5				
END	e	Pn +	00:08:54.7	-1.8		119.5	232.7	
	e	Pg -	00:08:56.2	0.0				
	e	Sn	00:09:09.2	-1.7				
	e	Sg	00:09:10.7	0.6				
TOD	e	Pg +	00:08:59.6	0.2		137.9	353.9	
	e	Sg	00:09:15.4	-0.0				
BBS	e	Pn +	00:08:58.5	-1.7		150.6	228.4	
	e	Pg	00:09:01.1	-0.4				
	e	Sn	00:09:16.4	-1.1				
	e	Sg	00:09:19.4	0.4				
FUR	e	Pg Z	00:09:05.1	0.4		169.4	97.1	ML 2.5
	e	Sg N	00:09:25.0	0.6				
GRC1	e	Pn Z	00:09:07.3	1.4		197.0	68.5	ML 2.1
	e	Pg Z	00:09:08.7	-0.7				
	e	Sg N	00:09:30.5	-1.7				
TNS	e	Sg N	00:09:35.4	-0.5		209.6	349.0	
GRFO	e	Pg Z	00:09:12.6	-0.3	5.9	217.9	46.9	
GRA1	e	Pn Z	00:09:10.2	1.7		218.1	46.9	ML 2.3
	e	Sg E	00:09:36.0	-2.3				
WET	e	Pg Z	00:09:24.9	-1.3		296.3	71.7	
	e	Sn N	00:09:54.1	5.8				
	e	Sg N	00:09:58.9	-1.7				
MOX	e	Pg Z	00:09:27.2	-2.1		315.0	35.7	
	e	Sn E	00:09:53.9	1.7				
	e	Sg E	00:10:03.5	-2.4				



Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/28	19:30:24.5	+- 0.62	51.720N	7.890E	11.1	4.4	158	1G		8	4	210			SZGRF	I
1998/09/28	19:30:23.8	+- 0.76	51.760N	7.820E	11.1	7.8	155	1G		6	4	218	2.0ML	TNS	BGR	I
<b>1998/09/28</b>	<b>19:30:22.5</b>		<b>51.693N</b>	<b>7.851E</b>				<b>1G</b>					<b>1.9ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	19:30:32.3	1.5	TA		49.0	235.3	ML 1.9
	e Sg E	19:30:40.6	4.1					
GSH	e Pg Z	19:30:48.8	1.2			147.8	224.6	
	e Sg E	19:31:07.8	3.1					
TNS	e Pn Z	19:30:52.4	2.3		1.0	168.8	165.4	ML 2.0
	e Pg Z	19:30:53.7	2.6					
	e Sg E	19:31:14.1	3.4					
CLZ	e Pg Z	19:30:52.6	0.6		1.9	174.3	83.6	
	e Sg N	19:31:14.0	1.7					
MOX	e Sg	19:31:44.8	0.3			287.2	112.5	

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/29	14:20:49.7	+- 0.52	51.660N	7.770E	7.8	3.3	160	1G		12	5	207	2.3ML	GSH	BGR	I
<b>1998/09/29</b>	<b>14:20:48.5</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.3ML</b>		<b>RUB</b>	<b>I</b>

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	14:20:56.5	1.2	TA		40.1	235.2	ML 2.3
	e Sg E	14:21:02.5	2.6					
GSH	e Pg Z	14:21:13.0	0.9		3.9	139.0	223.8	ML 2.3
	e Sg E	14:21:31.0	2.8					
TNS	e Pn Z	14:21:16.5	0.9			165.9	162.4	
	e Pg Z	14:21:17.8	1.2		2.9			
	e Sg N	14:21:36.6	0.7					
CLZ	e Pn Z	14:21:18.1	0.5			182.3	82.2	ML 2.4
	e Pg Z	14:21:19.8	0.4		4.3			
	e Sg N	14:21:42.2	1.6					
MOX	e Pg Z	14:21:39.3	1.3		1.6	292.1	110.9	ML 2.4
	e Sg E	14:22:13.5	1.6					

Date	Origin Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/30	05:53:43.0	+- 0.43	47.331N	11.181E	7.8	6.3	65	2	+- 0.0	25		297	3.0ML		LDG	L
1998/09/30	05:53:40.4		47.205N	11.252E				10G			38		3.1ML	VIE	NEIC	
ML= 3.1(STR), ML= 3.0(GRF), ML= 2.7(FUR), Intensity = V (MSK) at Kematen																
1998/09/30	05:53:34.8		47.398N	11.519E				1		19	13		2.6ML		SED	
1998/09/30	05:53:42.4		47.290N	11.180E				10G		20	10	312	2.9ML		LEDBW	L
1998/09/30	05:53:41.8		47.290N	11.310E				10G		7	5	253	2.8ML	BFO	BGR	L
<b>1998/09/30</b>	<b>05:53:38.4</b>		<b>47.200N</b>	<b>11.290E</b>				<b>10G</b>		<b>12</b>	<b>6</b>	<b>257</b>	<b>2.8ML</b>		<b>SZGRF</b>	<b>L</b>

Stubaiier Alps/A

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
SCE	i Pg -	05:53:46.9	2.1			36.5	119.3	
UBR	e Pg	05:53:57.6	1.5			103.7	301.5	ML 2.9
	i Sg	05:54:10.1	1.9					
	e SmS	05:54:14.6	3.3					
FUR	e Pg Z	05:53:58.4	1.8			107.1	359.4	ML 2.6
	e Sg E	05:54:10.4	1.2	T				
BHG	i Pg -	05:54:04.5	3.5			132.8	63.5	
HDH	e Pn +	05:54:08.3	2.8			173.8	332.7	ML 3.0
	e Sn	05:54:27.0	2.2					
	e Sg	05:54:29.2	1.0					
GUT	e Pn	05:54:10.9	3.5			189.5	301.5	ML 3.0
	e Sn	05:54:30.6	2.5					
	e Sg	05:54:34.2	1.5					
BEU	e Sn	05:54:34.1	2.1			207.9	318.4	ML 2.7
WET	e Pn Z	05:54:16.9	2.5	T		246.1	28.0	ML 2.7
	e Sg E	05:54:47.9	-0.9	T				
BFO	e Pn Z	05:54:18.6	3.3	T		254.4	300.7	ML 2.8
	e Sg N	05:54:51.5	0.4	T				
GEC2	e Pn Z	05:54:18.0	2.5	T		256.1	43.5	
	e Sg N	05:54:53.0	1.4	T				
FELD	e Pn	05:54:19.7	4.0			257.8	288.2	
	e Sg	05:54:53.4	1.2					
KIZ	e Pn -	05:54:21.6	4.8			266.5	289.6	ML 3.0
	Pg	05:54:27.1	3.5					
	e Sg	05:54:55.4	0.8					
SIND	e Pn +	05:54:19.9	2.7			269.5	333.1	ML 2.7
	e Pg	05:54:24.6	0.5					
	e Sn	05:54:48.2	3.2					
	e Sg	05:54:55.4	-0.1					
GRFO	e Pg Z	05:54:25.9	0.5			277.0	359.0	
	e Sg E	05:54:57.6	-0.0					
GRA1	e Pn Z	05:54:18.8	0.7	T		277.1	359.0	ML 3.0
	e Sg N	05:54:57.5	-0.2	T				
MOX	e Pn Z	05:54:31.2	0.1	T		383.8	3.4	
	e Sn	05:55:11.8	2.6					
	e Sg E	05:55:28.0	-0.1	T				
BRG	e Sg	05:55:46.7	-0.8			451.8	24.3	

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/30	10:08:11.6	+-	0.93	51.650N	7.900E	14.5	5.6	1	1G		9	6	229	2.4ML	GSH	BGR	I
1998/09/30	10:08:10.3			51.688N	7.839E				1G					2.1ML		RUB	I

Hamm/Westfalen, Ruhr Coal Mining District

Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	10:08:19.9	1.5	TA		48.0	235.3	ML 2.1
	e Sg N	10:08:27.2	3.2					
GSH	e Pg Z	10:08:36.2	1.0		7.4	146.8	224.5	ML 2.4
	e Sg N	10:08:55.4	3.2					
WLF	e Pg Z	10:08:53.2	-0.3		1.2	254.4	208.5	
	e Sg E	10:09:21.7	-1.3					
MOX	e Sg N	10:09:32.3	-0.2			287.7	112.3	ML 2.4
GRFO	e Sg E	10:09:44.1	0.7			325.6	131.7	
BFO	e Sg E	10:09:58.3	0.8			375.0	174.4	

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/30		22:27:52.2		51.149N	7.450E				10G			12		2.7ML	STR	NEIC	
	ML= 2.6(WLF), Less reliable solution																
1998/09/30		22:27:47.4		51.510N	7.810E				1G		8	4	209	2.5ML		SZGRF	I
1998/09/30		22:27:41.8		51.750N	7.990E				1G		6	4	238	2.6ML	GSH	BGR	I
<b>1998/09/30</b>		<b>22:27:44.4</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.3ML</b>		<b>RUB</b>	<b>I</b>

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Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	22:27:52.4	1.2	TA		40.1	235.2	ML 2.3
	e Sg E	22:27:58.3	2.5					
GSH	e Pg Z	22:28:09.2	1.3			139.0	223.8	ML 2.6
	e Sg E	22:28:27.9	3.8					
WLF	e Pg Z	22:28:26.9	0.6			247.3	207.6	
	e Sg E	22:28:53.3	-1.7					
MOX	e Pn Z	22:28:29.3	2.3			292.1	110.9	
	i Pg	22:28:35.8	1.9					
CLL	e Sg N	22:29:08.4	0.5			366.1	93.9	
	e Pg	22:28:47.0	0.6					
BRG	e Sg	22:29:29.0	0.0			439.7	98.9	
	e Sg	22:29:52.7	2.7					

Date	Origin	Time	OT_err	Lat	Long	Smajor	Sminor	Az	Depth	D_err	Ndef	Nsta	Gap	Mag	Ref	Source	Ev_type
1998/09/30		23:11:27.0	+- 0.54	51.470N	7.790E	15.6	5.6	167	1G		9	5	185	2.2ML		SZGRF	I
1998/09/30		23:11:24.8	+- 2.19	51.660N	7.740E	51.1	10.0	168	1G		4	4	237	2.3ML	GSH	BGR	I
<b>1998/09/30</b>		<b>23:11:23.7</b>		<b>51.647N</b>	<b>7.744E</b>				<b>1G</b>					<b>2.2ML</b>		<b>RUB</b>	<b>I</b>

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Sta	Phase	Time	TRes	Def	S/N	Dist	EvAz	Mag
BUG	i Pg - Z	23:11:31.7	1.2	TA		40.1	235.2	ML 2.2
	e Sg E	23:11:37.7	2.5					

GSH	e	Pg	Z	23:11:48.4	1.1	139.0	223.8	ML 2.3
	e	Sg	N	23:12:06.0	2.6			
WLF	e	Pg	Z	23:12:06.9	1.3	247.3	207.6	
	e	Sg	E	23:12:31.8	-2.6			
MOX	e	Pn	Z	23:12:08.1	1.8	292.1	110.9	
	e	Pg	Z	23:12:14.5	1.3			
	e	Sg	N	23:12:50.0	2.8			
CLL	e	Pn	Z	23:12:19.3	4.0	366.1	93.9	
	i	Pg		23:12:27.6	1.9			
	e	Sg	E	23:13:10.3	2.1			
BRG	e	Sg		23:13:30.7	1.4	439.7	98.9	

## Unassociated arrivals

Sta	Phase	Date	Time	TRes	Def	S/N	Dist	EvAz	Mag
BRG	i Sg	1998/09/01	11:55:33.5						
BRG	e Sg	1998/09/01	19:27:46.3						
CLL	e (Sg)	1998/09/01	19:50:03.0						
BRG	e Pg	1998/09/01	20:31:15.9						
BRG	e Sg	1998/09/01	20:32:02.4						
CLL	e Sg	1998/09/01	20:32:18.0						
BRG	i Sg	1998/09/02	16:42:55.9						
BRG	e Sg	1998/09/05	19:00:55.3						
CLL	e (Sg)	1998/09/08	11:30:18.0						
BRG	e Sg	1998/09/08	16:58:58.7						
BRG	e Sg	1998/09/08	20:56:42.6						
BRG	e Sg	1998/09/10	09:38:01.0						
CLL	e Sg	1998/09/11	16:17:04.0						
BRG	i Sg	1998/09/15	08:17:18.8						
HOF	e Pn	1998/09/17	00:00:58.1						
BRG	i Sg	1998/09/19	21:38:42.8						
BRG	e Sg	1998/09/23	20:33:25.6						
BRG	e Sg	1998/09/23	22:40:36.0						
BRG	e Sg	1998/09/24	07:43:15.6						
BRG	e Sg	1998/09/24	08:20:00.5						
BFO	e Pg	1998/09/24	09:39:14.6						
BFO	e Sg	1998/09/24	09:39:30.4						

MOX	e	Sg	1998/09/25 16:23:19.6
MOX	e	Sg	1998/09/25 16:33:07.8
BRG	e	Sg	1998/09/30 08:27:43.9