

FDSN Network Report GRF/GRSN 2007

German Regional Seismic Network (GRSN) and Gräfenberg-Array (GRF)

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In 2006 all 13 GRF stations have been equipped with STS-2 instruments. This means all stations now are VBB and have 3 components and a VBB characteristic. The old instruments have been the first series of Streckeisen-1 instruments, installed between 1976 and 1980, with a passband of 0.05Hz to 5Hz. 10 stations were vertical, only 3 stations had three components. The continuous GRF data since that time are available from the same data services as the GRSN (see below).

The operation of the stations of the GRSN has been continued as before. Most of the stations are operated in close cooperation with universities and other research institutions in Germany. In 2006 a new broadband station GTTG (Göttingen) has been added. In total there is now a number of 20 GRSN stations available. The data set is complemented by currently 8 additional stations from local networks in the Eastern and Southeastern part of Germany. The data of the GRF and GRSN stations are available continuously (as 20Hz for all stations and as 80/100Hz for most of the GRSN stations) via AutoDRM (autodrm@szgrf.bgr.de), WWW (www.szgrf.bgr.de) and WebDC (www.webdc.eu). Many of the GRSN stations are also available via seedlink connections in near-real-time. Please contact Klaus Stammller (klaus@szgrf.bgr.de) for further information on seedlink connections.

Currently we are about to change digitisers at GRF and some older GRSN stations. This is to replace old and outdated hardware. At most places the new digitiser hardware will be Reftek 130, at some stations also Quanterra Q330 are planned. This digitiser refurbishment is intended to be completed until summer 2008.

A table with German broadband stations follows:

Name	ID	Lat.	Lon.	Net	Instrum.	Arch. Start
Bad Segeberg	BSEG	53,94	10,32	GR	STS-2	01.12.1995
Berggrieshuebel	BRG	50,87	13,94	GR	STS-2	01.03.1993
Bochum	BUG	51,44	7,27	GR	STS-2	01.11.1991
Clausthal	CLZ	51,84	10,37	GR	STS-2	01.07.1991
Collm	CLL	51,31	13,00	GR	STS-2	01.04.1993
Fuerstenfeldbruck (Muenchen)	FUR	48,16	11,28	GR	STS-2	01.07.1991
Göttingen	GTTG	51,55	9,96	GR	STS-2	01.04.2006
GERESS Array Site C2	GEC2	48,84	13,71	GR	STS-2	30.09.1988
Graefenberg Borehole Station	GRFO	49,69	11,22	IU/GR	KS54000i	01.06.1994
Helgoland	HLG	54,18	7,88	GE/GR	STS-2	01.12.2001
Ibbenbueren	IBBN	52,31	7,76	GE/GR	STS-2	01.04.1996
Niedersachsen-Riedel	NRDL	52,49	10,11	GR	STS-2	01.03.2003
Moxa	MOX	50,64	11,62	GR	STS-2	01.11.1992
Ruedersdorf	RUE	52,48	13,78	GE/GR	STS-2	01.01.2000
Ruegen Island	RGN	54,55	13,32	GE/GR	STS-2	01.12.1995
Schiltach	BFO	48,33	8,33	II	STS-1	
Schiltach	BFO	48,33	8,33	GR	STS-2	01.07.1991
Stuttgart	STU	48,77	9,19	GE/GR	STS-2	31.03.1990
Taunusobservatorium (Frankfur	TNS	50,22	8,45	GR	STS-2	01.07.1991
Unterbreizbach	UBBA	50,82	10,00	GR	STS-2	01.06.2003
Wettzell (Bavarian Forest)	WET	49,14	12,88	GR	STS-2	01.07.1991
Gräfenberg Array Station A1	GRA1	49,69	11,22	GR	STS-2	01.04.1976
Gräfenberg Array Station A2	GRA2	49,66	11,36	GR	STS-2	01.04.1976
Gräfenberg Array Station A3	GRA3	49,76	11,32	GR	STS-2	01.04.1976
Gräfenberg Array Station A4	GRA4	49,57	11,44	GR	STS-2	01.04.1979
Gräfenberg Array Station B1	GRB1	49,39	11,65	GR	STS-2	01.04.1978
Gräfenberg Array Station B2	GRB2	49,27	11,67	GR	STS-2	01.04.1978
Gräfenberg Array Station B3	GRB3	49,34	11,81	GR	STS-2	01.04.1978
Gräfenberg Array Station B4	GRB4	49,47	11,56	GR	STS-2	01.04.1979
Gräfenberg Array Station B5	GRB5	49,11	11,68	GR	STS-2	01.10.1979
Gräfenberg Array Station C1	GRC1	49	11,52	GR	STS-2	01.04.1979
Gräfenberg Array Station C2	GRC2	48,87	11,38	GR	STS-2	01.04.1980
Gräfenberg Array Station C3	GRC3	48,89	11,59	GR	STS-2	01.04.1979
Gräfenberg Array Station C4	GRC4	49,09	11,53	GR	STS-2	01.10.1979
Manzenberg	MANZ	49,99	12,11	BW	STS-2	01.02.2006
Rotzenmühle	ROTZ	49,77	12,21	BW	STS-2	01.08.2005
Freiberg	FBE	50,92	13,35	SX	LE3D 5s	24.04.2005
Gunzen	GUNZ	50,36	12,33	SX	LE3D 5s	16.12.2000
Neuenburg	NEUB	51,21	11,78	SX	STS-2	21.08.2003
Tannenbergsthal	TANN	50,41	12,46	SX	STS-2	19.12.2000
Werda	WERD	50,45	12,31	SX	LE3D 5s	13.06.2001
Wernitzgrün	WERN	50,29	12,38	SX	LE3D 5s	02.08.2000

