

TABLE I: List of the Seismological Stations in Germany (state: December 1996)

Station Code	Station Name	Coordinates		Altitude	Address
		Lat. (N)	Long. (E)		
ASS *	Asse II	52° 07' 54"	10° 39' 56"	-295 m ¹⁾	GSF-Forschungszentrum für Umwelt und Gesundheit GmbH PF 1461, 38284 Wolfenbüttel www.GSF.de
- KON *	Konrad Station KON closed Jan 26, 1996	52° 11' 29.2"	10° 24' 15.8"	-1098 m ¹⁾	
BFO	Schiltach	48° 19' 52.2"	8° 19' 49.2"	589 m ¹⁾	Geowissenschaftliches Gemeinschaftsobservatorium Schiltach Heubach 206, 77709 Wolfach www-gpi.physik.uni-karlsruhe.de/pub/widmer/BFO www-gik.bau-vern.uni-karlsruhe.de/~bfo
BNS	Bensberg	50° 57' 50.0"	7° 10' 32.0"	200 m	Erdbebenstation Bensberg, Geologisches Institut der Universität zu Köln, Vinzenz-Pallotti-Str. 26, 51429 Bergisch Gladbach www.uni-koeln.de/math-nat-fak/geologie/seismo
- BGG	Burg Eltz	50° 12' 21.5"	7° 20' 13.8"	140 m	
- DRE *	Dreilägerbach	50° 39' 45.7"	6° 13' 48.0"	395 m	
- JUE *	Jülich	50° 54' 36.6"	6° 24' 26.1"	91 m	
- KLL	Kalltalsperre	50° 38' 49.6"	6° 18' 42.8"	440 m	
- KOE	Köppel	50° 25' 31.0"	7° 43' 53.8"	540 m	
- OCH *	Ochtendung	50° 22' 14.9"	7° 22' 31.8"	120 m	
- STB	Steinbach	50° 57' 32.4"	6° 39' 03.6"	270 m	
BRG	Berggießhübel	50° 52' 29.7"	13° 56' 41.3"	296 m	TU Bergakademie Freiberg Institut für Geophysik Seismologisches Observatorium Hauptstr. 8, 01819 Berggießhübel www.geophysik.tu-freiberg.de
- MUL *	Muldenberg	50° 24' 44.6"	12° 24' 17.3"	678 m	
- SBG *	Schönberg	50° 11' 05.6"	12° 18' 27"	604 m	
- SOS *	Sosa	50° 29' 30.1"	12° 38' 46"	636 m	
BRN	Berlin	52° 25' 07.5"	13° 12' 11.2"	45 m	Freie Universität Berlin, Fachrichtung Geophysik im Institut für Geologie, Geophysik und Geoinformatik, Malteserstr. 74-100, 12249 Berlin www.fu-berlin.de/geophysik
- BRNL	Berlin-Lankwitz	52° 25' 40.8"	13° 21' 28.8"	42 m	

* Station code not listed by NEIS (National Earthquake Information Service) of the U.S. Geological Survey

¹⁾ Station in a mine

Station Code	Station Name	Coordinates		Altitude	Address	
		Lat. (N)	Long. (E)			
BUG	Bochum University Network (Reference site KLB)	51° 26' 30.5"	7° 16' 13.1"	135 m	Institut für Geophysik der Ruhr– Universität, Universitätsstr. 150, 44801 Bochum www.geophysik.ruhr-uni-bochum.de	
CLL	Collm	51° 18' 32.3"	13° 00' 15.7"	230 m	Geophysikalisches Observatorium Collm 04779 Wernsdorf hpkom21.geo.uni-leipzig.de/~geosh/ seismologie.html	
CLZ	Clausthal–Zellerfeld	51° 50' 34.3"	10° 22' 26.8"	680 m	Institut für Geophysik der Technischen Universität Clausthal, Arnold–Sommerfeld–Str. 1, 38678 Clausthal–Zellerfeld www.ifg.tu-clausthal.de	
FELD	Feldberg im Schwarzwald	47° 52' 34.8"	8° 00' 14.4"	1465 m	Landesamt für Geologie, Rohstoffe und Bergbau Baden–Württemberg, Erdbebendienst, Albertstr. 5, 79104 Freiburg i. Br. www.gla.uni-freiburg.de	
– ABH	Alteburg	49° 52' 54"	7° 32' 51"	620 m		
– BAS *	Basel	47° 32' 31.8"	7° 34' 59.2"	317 m ²⁾		
– BAW *	Badenweiler	47° 47' 57.8"	7° 40' 37.3"	500 m ¹⁾		
– BBS	Basel–Blauen	47° 27' 52.0"	7° 30' 33"	700 m ²⁾		
– BEU	Beuren	48° 35' 01.8"	9° 24' 55.2"	443 m		
– BHB *	Braunhartsberg	48° 14' 50.8"	9° 00' 15.3"	935 m		
– EFR *	Efringen–Kirchen	47° 39' 55.2"	7° 33' 49.2"	280 m ¹⁾		
– END *	Endenburg	47° 42' 54.0"	7° 44' 16.6"	635 m		
– ENG *	Engstlatt	48° 18' 45"	8° 52' 22.4"	538 m		
– FBB	Freiburg im Breisgau	48° 00' 05.8"	7° 51' 11.4"	258 m		
– GLO *	Glottertal	48° 03' 03.6"	7° 57' 53.3"	360 m ¹⁾		
– HDH	Heidendeim–Charlottenhöhle	48° 35' 03.6"	10° 12' 25.2"	501 m		in operation since Oct 30, 1996
– HEI	Heidelberg	49° 23' 56.8"	8° 43' 38.7"	560 m		
– HEX *	Hexenloch	48° 01' 15"	8° 08' 58.8"	770 m		
– HOL *	Hollenbach	49° 22' 15.6"	9° 48' 40.2"	421 m		
– HSN *	Hausen	48° 18' 15"	9° 11' 37.8"	710 m		
– HTN *	Hohentengen	48° 01' 45.6"	9° 22' 42.1"	573 m		
– JUN *	Jungingen	48° 19' 48.4"	9° 02' 27"	600 m		
– KIZ	Kirchzarten	47° 57' 22.2"	7° 55' 05.4"	444 m ¹⁾	renamed from KIR Jun 15, 1996	
– KTD	Kalmit	49° 19' 12.6"	8° 05' 01.2"	667 m		

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¹⁾ Station in a mine ²⁾ in cooperation with Swiss Earthquake Service, SED, Zurich

Station Code	Station Name	Coordinates		Altitude	Address
		Lat. (N)	Long. (E)		
– LBG	Lerchenberg	48° 39' 50.0"	8° 47' 40.2"	585 m	
– LIBD	Limburg	48° 09' 01.8"	7° 36' 10.8"	210 m	
– MSG	Mössingen	48° 23' 57"	9° 02' 07.2"	475 m	
– MSS	Messtetten	48° 10' 49"	8° 57' 59"	915 m	
– ROS *	Rossmann	49° 44' 43.2"	8° 40' 08.4"	290 m	
– RUP	Ruppelstein	49° 42' 06"	7° 03' 33.6"	750 m	
– SGW	Sigmaringen–Wittberg	48° 06' 24.3"	9° 12' 54.1"	700 m	
– SOL *	Solfelsen	47° 36' 05.4"	7° 56' 43.4"	770 m	
– TOD	Tromm	49° 36' 21.2"	8° 48' 13.8"	570 m	
– UBR	Ueberruh	47° 40' 50.4"	10° 06' 28.8"	890 m	
– WYH *	Wyhlen	47° 33' 02.9"	7° 42' 06.5"	310 m	
FUR	Fürstenfeldbruck	48° 09' 56"	11° 16' 35"	565 m	Geophysikalisches Observatorium, Ludwigshöhe 8, 82256 Fürstenfeldbruck www.geophysik.uni-muenchen.de/ welcome.htm#groups in operation since Jul 30, 1996
– BHG	Bad Reichenhall	47° 43' 17"	12° 52' 44"	475 m	
– GAPA *	Garmisch–Partenkirchen	47° 29' 50"	11° 07' 01"	760 m	
– HOF	Hof	50° 18' 49"	11° 52' 39"	566 m	
< – MANZ *	Manzenberg	49° 59' 14"	12° 06' 34"	635 m	
– RELO *	Regnitzlosau	50° 18' 21.6"	12° 03' 39.6"	590 m	
– ROTZ	Rotzenmühle	49° 46' 04.1"	12° 12' 30.1"	430 m	
– VIEL *	Vielitz	50° 11' 12"	12° 06' 15"	670 m	
– WET	Wettzell	49° 08' 43"	12° 52' 48"	613 m	
– OGA	Obergurgl/A	46° 52' 04"	11° 01' 31"	1934 m	(A = Stations in Austria operated by FUR)
– SCE	Schlegeis/A	47° 02' 19"	11° 42' 37"	1737 m	
GERES	Geress–Array Station GEC2 (reference station)	48° 50' 42.4" (Coordinates of the remaining stations are listed in Table I d)	13° 42' 05.6"	1132 m	Institut für Geophysik der Ruhr Universität, Universitätsstr. 150, 44801 Bochum www.geophysik.ruhr-uni-bochum.de
GOR *	Gorleben Network Station GOR1 (reference station)	52° 59' 25.1" (Coordinates of the remaining stations are listed in Table I b)	11° 18' 26.8"	–300 (22) m ³⁾	Bundesanstalt für Geowissenschaften und Rohstoffe, B2.12, Stilleweg 2, 30655 Hannover www.bgr.de

* Station code not listed by NEIS (National Earthquake Information Service) of the U.S. Geological Survey

¹⁾ Station in a mine ²⁾ Borehole station, the altitude refers to depth below surface

³⁾ Borehole station, the altitude refers to depth below surface, the number in parenthesis gives the elevation of the surface

Station Code	Station Name	Coordinates		Altitude	Address
		Lat. (N)	Long. (E)		
GRF	Gräfenberg–Array Station A1 (reference station)	49° 41' 31"	11° 13' 18"	500 m	Seismologisches Zentralobservatorium Gräfenberg, Mozartstr. 57, 91052 Erlangen
GRFO	SRO–Station	49° 41' 31"	11° 13' 18"	–110 m ²⁾	www.szgrf.uni-erlangen.de
GSH	Grosshau	50° 44' 14"	6° 22' 37"	370 m	Geologisches Landesamt
– JCK	Jackerath	51° 02' 11"	6° 25' 55"	–240 m ²⁾	Nordrhein–Westfalen,
– KRF *	Krefeld	51° 20' 33"	6° 32' 15"	–270 m ²⁾	De–Greiffstr. 195, 47803 Krefeld
– OLF *	Oleftalsperre	50° 29' 44"	6° 25' 16"	470 m	www.gla.nrw.de
– PLH	Pulheim	51° 00' 19"	6° 49' 14"	–300 m ²⁾	
– WBS *	Wahnbachtalsperre	50° 49' 04"	7° 17' 05"	130 m	
GTT	Göttingen	51° 32' 47"	9° 57' 51"	272 m	Institut für Geophysik der Universität Göttingen, Herzberger Landstr. 180, 37075 Göttingen www.Geo.physik.Uni-Goettingen.DE
N.	HAM	53° 27' 54"	9° 55' 29"	30 m	Observatorium der Geophysikalischen
	– BSEG	Bad Segeberg	53° 56' 7.08"	40 m	Institute der Universität Hamburg, Kuhtrift 18, 21075 Hamburg www.uni-hamburg.de/WIss/FB/15/index.html
HLG	Helgoland	54° 11' 05"	7° 53' 02"	41 m	Institut für Geophysik der Christian Albrecht Universität zu Kiel Olshausenstr. 40–60, 24098 Kiel www.geophysik.uni-kiel.de
HOE *	Höfer	52° 41' 27.2"	10° 15' 10.9"	–839 m ¹⁾	Niedersächsisches Landesamt für
– GIE *	Giesen	52° 12' 43.2"	12° 43' 55.2"	–792 m ¹⁾	Bodenforschung, Stilleweg 2,
– IBBN	Ibbenbüren	52° 18' 25.9"	7° 45' 23.8"	140 m	30655 Hannover www.nlfb.de

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¹⁾ Station in a mine ²⁾ Borehole station, the altitude refers to depth below surface

Station Code	Station Name	Coordinates		Altitude	Address
		Lat. (N)	Long. (E)		
KRW	Karlsruhe–West	49° 01' 16.8"	8° 22' 05.4"	110 m	Geophysikalisches Insitut der Universität Karlsruhe Hertzstr. 16, 76187 Karlsruhe www-gpi.physik.uni-karlsruhe.de
MOX	Moxa	50° 38' 46"	11° 36' 58"	455 m	Friedrich–Schiller–Universität Jena Institut für Geowissenschaften der
– BDB *					Lehrstuhl für Angewandte Geophysik
– BDE *	Bad Elster	50° 17' 31"	12° 13' 10"	420 m	Burgweg 11, 07749 Jena or
– KLI *	Klingenthal	50° 22' 19"	12° 28' 16"	520 m	Geodynamisches Observatorium
– PLN *	Plauen	50° 29' 03"	12° 09' 45"	414 m	07381 Moxa
– PST *	Posterstein	50° 51' 53"	12° 15' 17"		www.geo.uni-jena.de/moxa/home.html
– WRG *	Wernitzgrün	50° 17' 17"	12° 21' 40"	620 m	
MWG	Münster	51° 58' 10"	7° 35' 53"	62 m	Institut für Geophysik, Corrensstr. 24, 48149 Münster www.uni-muenster.de/physik
RGN *	Rügen	54° 32' 51.7"	13° 19' 17"	15 m	GeoForschungsZentrum Potsdam Telegrafenberg A6 14473 Potsdam www.gfz-potsdam.de
STU	Stuttgart	48° 46' 15"	9° 11' 36"	360 m	Institut für Geophysik der Universität Stuttgart, Richard–Wagner–Str. 44, 70184 Stuttgart www.geophys.uni-stuttgart.de
TNS	Kleiner Feldberg (Taunus)	50° 13' 25"	8° 26' 56"	815 m	Taunus Observatorium, Institut für
– ALG *	Algenroth	50° 09' 48"	7° 52' 40"	419 m	Meteorologie und Geophysik,
– BHZ *	Bahnholz	50° 05' 17"	8° 23' 52"	245 m	Feldbergstr. 47, 60323 Frankfurt
– FFM *	Frankfurt am Main	50° 07' 22"	8° 39' 38"	100 m	occasionally in operation
– FOA *	Grube Fortuna	50° 34' 48"	8° 25' 01"	65 m	www.geophysik.uni-frankfurt.de
– MER *	Merenberg	50° 31' 30"	8° 12' 36"	215 m	
– OGB *	Obergladbach	50° 05' 08"	8° 00' 35"	430 m	
– VAD *	Vadenrod	50° 39' 21"	9° 17' 16"	447 m	
– WDB *	Waldamorbach	49° 51' 21"	9° 01' 21"	240 m	

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TABLE I a

Geographical coordinates of GRF Array stations

Station Code	Site	Station Name	Coordinates (Deg.)		Altitude (m)
			Lat. (N)	Long. (E)	
GRA1	A 1 *	Haidhof	49.692	11.222	500
GRA2	A 2	Wildenfels	49.655	11.359	515
GRA3	A 3	Leutzdorf	49.762	11.319	452
GRA4	A 4	Stöppach	49.565	11.436	502
GRB1	B 1 *	Brünnthäl	49.391	11.652	502
GRB2	B 2	Reichertswinn	49.271	11.670	547
GRB3	B 3	Eglhofen	49.344	11.806	519
GRB4	B 4	Heldmannsberg	49.469	11.561	510
GRB5	B 5	Vorderödberg	49.112	11.677	515
GRC1	C 1 *	Amtmannsdorf	48.996	11.521	513
GRC2	C 2	Böhmfeld	48.868	11.376	447
GRC3	C 3	Steinsdorf	48.890	11.586	445
GRC4	C 4	Raitenbuch	49.087	11.526	505

* 3 component station

TABLE I b

Geographical coordinates of the seismic stations of the local borhole network at Gorleben

Station Code	Site	Station Name	Coordinates (Deg.)		Altitude (m)
			Lat. (N)	Long. (E)	
GOR1	9001*	Trebel	52.9903	11.3075	22
GOR2	9002	Laase	53.0661	11.3017	16
GOR3	9003	Gartow	53.0332	11.4347	20
GOR4	9004	Lomitz	52.9406	11.3996	24
GOR5	9005	Dangenstorf	52.9228	11.2217	35
GOR6	9006	Seerau	53.0040	11.1735	15

* 3 component station; the depth of the boreholes is 300 m each; the altitudes refer to the elevation of the surface at the sites.

TABLE I c

Geographical coordinates of the BUG network sites.

Station Code	Site	Station Name	Coordinates (Deg.)		Altitude (m)
			Lat. (N)	Long. (E)	
BUG	KLB	Klosterbusch; abandoned mine	51.4419	7.2703	85
	SHA	Staatshochbauamt	51.4483	7.2453	148
	TEZ	Technisches Zentrum	51.4506	7.2797	112
	NAB	Building NA	51.4455	7.2644	135
	HRH ¹⁾	Mine Heinrich Robert, Hamm	51.6234	7.7527	-888
	RPM ¹⁾	Mine Rheinpreussen	51.4723	7.6343	-412

¹⁾ 3 component seismometer stations located in a mine**TABLE I d**

Geographical coordinates of the GERESS Array stations

Station Code	Coordinates (Deg.)		Altitude (m)
	Lat. (N)	Long. (E)	
GEA0	48.8368	13.7019	1022.36
GEA1	48.8363	13.7039	1004.12
GEA2 ¹⁾	48.8386	13.7018	1055.55
GEA3	48.8350	13.7000	1011.87
GEB1	48.8389	13.7075	1009.86
GEB2	48.8395	13.6986	1088.73
GEB3	48.8369	13.6959	1053.56
GEB4	48.8327	13.6989	1000.85
GEB5	48.8345	13.7059	971.73
GEC1	48.8412	13.7099	1022.55
GEC2 ¹⁾	48.8451	13.7016	1132.46
GEC3	48.8424	13.6917	1070.47
GEC4	48.8352	13.6875	1098.09
GEC5	48.8296	13.6957	1004.20
GEC6	48.8268	13.7090	937.11
GEC7	48.8354	13.7145	980.78
GED1 ¹⁾	48.8518	13.7148	1056.74
GED2	48.8532	13.6964	994.10
GED3	48.8465	13.6818	944.70
GED4 ¹⁾	48.8386	13.6796	1034.69
GED5	48.8246	13.6807	1080.40
GED6	48.8194	13.6966	1079.35
GED7 ¹⁾	48.8209	13.7159	955.41
GED8	48.8332	13.7261	933.03
GED9	48.8434	13.7238	981.79

¹⁾ 3 component seismometer