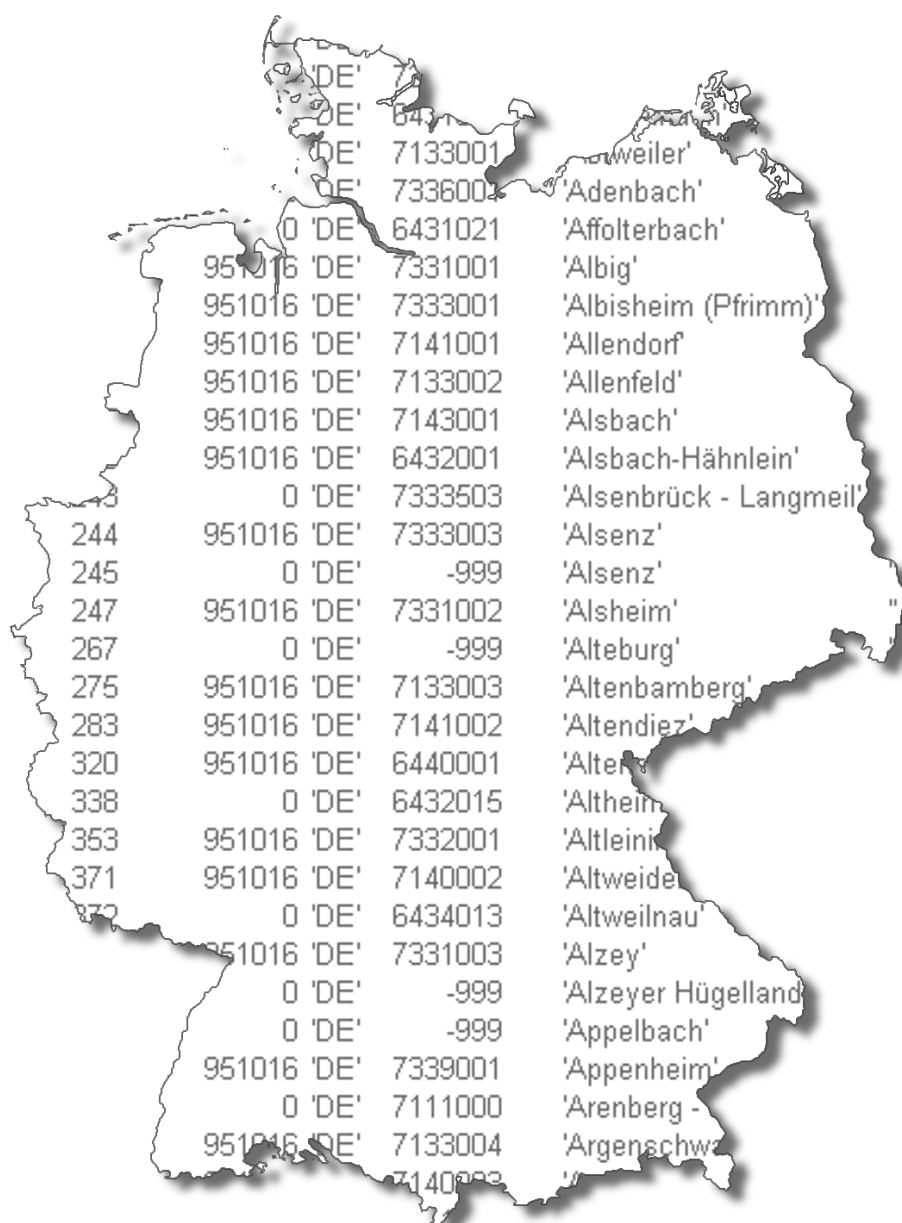




Geographical Names 1:250 000

GN250



Status of the documentation: 19.12.2018

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1 Overview of the dataset

Product	: GN250
Contents	: Geographical names of municipalities or parts thereof, landscapes, mountain ranges, mountains, islands, rivers, canals, lakes, seas, etc. The selection of the geographical names is based on the map scale 1:250 000.
Area	: Federal Republic of Germany
Georeferencing	: - Gauss-Krüger projection in the 3 rd , 4 th and 5 th meridional strip, Bessel ellipsoid, Potsdam Datum (origin of Rauenberg) - UTM projection in the zones 32 and 33, Ellipsoid GRS80, Datum ETRS89 - Geographical coordinates in decimal degrees, Ellipsoid GRS80, Datum ETRS89 Further georeferencings on request – as a free download only a selection thereof
Topicality	: Annual updating
Sources	: - Registers of the statistical offices of the Länder (federal states) - Federal Statistical Office (populations, Regional and Official Municipality Key) - Digital Landscape Models 1:250 000 (DLM250) - DGM 10 (for determination of the calculated heights with locations)
Production method	: Manual digitization
Resolution	: 1" geographical coordinates, 100 m Gauß-Krüger, UTM and Lambert
Data formats	: - ArcInfo-SHAPE format (character encoding UNICODE in UTF-8) - CSV format (character encoding UNICODE in UTF-8)
Data carrier	: free of charge as download and view service subject to a charge when using the ordering system (CD, FTP)

2 Description of contents of the dataset

2.1 General

The Geographical Names contain names of the object areas

- settlement
- traffic
- vegetation
- water bodies
- relief
- areas

with attributes about:

- administrative division (statistical key-number)
- stream system (hydrological area code number according to LAWA)
- population
- position (geometrical data from the Digital Landscape Model on a scale of 1:250 000 as well attributive geographical coordinates - GGMMSS -)
- status of the geographical name
- language of the geographical name
- height (height in metres above sea level).

Moreover, the following attribute is additionally available in CSV format, but for licensing reasons **exclusively to federal institutions**:

- postal codes (PLZ) for the object type "AX_Ortslage".

For classification of the names the object types of the Amtliches Topographisch-Kartographisches Informationssystem (ATKIS) (official topographic-cartographic information system) of the most up-to-date version are generally used (see: <http://www.adv-online.de> -> AAA-Modell -> Dokumente der GeoInfoDok).

The dataset GN250 orientates itself on the scale of 1:250 000. The position of the objects is described as a punctiform geometry via one single coordinate and via "smallest circumscribing rectangles" (bounding boxes).

The dataset GN250 includes an attribute for the calculated population figures of the object type "AX_Ortslage". The calculation is made via the official population of the respective municipality and is distributed to the locations in percent. For the distribution in percent the available surface geometries of the respective locations (captured from a minimum size of 0,4 km²) and for smaller locations a standard size of 1 km² were used.

As of 31.12. 2011 a conversion of the dataset was effected for the purpose of achieving further harmonization of the administrative structures of the Länder as well as obtaining an adaption to the standards of the Federal Statistical Office. It concerns the attribute RS.

By its number of digits the previous 12-digit RS now reflects the respective administrative level. It is no longer filled with succeeding zeros

(Example: Land (state) Niedersachsen (Lower-Saxony): OLD->030000000000 : NEW->03).

2.2 Description of the attributes of the dataset

Attribute name	meaning
NNID	National name identifier
DATUM	Date of last modification of the name object (YYYYMMDD)
OBA	Name of the ATKIS-object type to which the name object belongs
OBA_WERT	More precise specification of the name object within the ATKIS-object type
NAME	Name of the geographical name object (official name of the LANGUAGE 'DEUTSCH')
SPRACHE	Language to which "NAME" is to be assigned
GENUS	Gender assigned to "NAME" (m, f, n, p)
NAME2	Synonym of the object name (amongst others, Sorbian or Frisian or Danish name)
SPRACHE2	Language, to which "NAME2" is to be assigned
GENUS2	Gender assigned to "NAME2" (m, f, n, p)
ZUSATZ	Name affix (in case of several affixes one is selected coincidentally)
AGS	Official Municipality Key [the AGS is explicitly stated for all Gemeinden, Kreise, Regierungsbezirke and Bundesländer]
RS	Regional Key [exists for all administrative units "Gemeindeteil", "Gemeinde", "Verwaltungsgemeinschaft", "Kreis", "Regierungsbezirk", "Land", "Staat"]
HOEHE	Height above sea level (stated in metres; for the object types "Ortslage" and "Besonderer Höhenpunkt")
HOEHE_GER	Calculated height above NHN (heights measured above the base height level) (stated in metres for the object type "Ortslage")
EWZ	Population of municipalities [only stated for administrative units]
EWZ_GER	Calculated population for all "Ortslagen"(locations)
GEWK	Hydrological area code number [unique hydrological area code number according to "Bund/Länder-Arbeitsgemeinschaft Wasser" (LAWA)]
GEMTEIL	Yes/No [is/is not a municipality]
VIRTUELL	Yes/No [is/is not an independent municipality without a real "Ortslage"]
GEMEINDE	Name of the municipality [for "Ortslagen", "Gemeindeteile"]
VERWGEM	Name of the administrative association [for "Ortslagen", "Gemeindeteile", "Gemeinden"]
KREIS	Name of the district (county) [for "Ortslagen", "Gemeindeteile", "Gemeinden", "Verwaltungsgemeinschaften"]
REGBEZIRK	Name of the administrative district [for "Ortslagen", "Gemeindeteile", "Gemeinden", "Verwaltungsgemeinschaften", "Kreise"]
BUNDESLAND	Name of the Land (federal state) [for "Ortslagen", "Gemeindeteile", "Gemeinden", "Verwaltungsgemeinschaften", "Kreise", "Regierungsbezirke"]
STAAT	Two-letter code (ISO 3166, DIN-NABD 10.2 2-92) [for "Ortslagen" and "Verwaltungseinheiten"]
GEOLA	Geographical longitude (degree, minutes, seconds (GGMSS))
GEOBR	Geographical latitude (degree, minutes, seconds (GGMSS))
GKRE	Gauss-Krüger easting (m; cf. georeferencing under point 1 for details)
GKHO	Gauss-Krüger northing (m; cf. georeferencing under point 1 for details)
UTMRE	UTM easting (m; cf. georeferencing under point 1 for details)
UTMHO	UTM northing (m; cf. georeferencing under point 1 for details)
BOX_GEO	Smallest circumscribing rectangle for the object in geographical coordinates, for point objects an artificial rectangle 0,00001 degree x 0,00001 degree with (GEO-LA, GEOBR) as the centre. OGC Well Known Text (WKT) format
BOX_GK	Smallest circumscribing rectangle for the object in Gauß-Krüger coordinates, for point objects an artificial rectangle 1m x 1m with (GKRE, GKHO) as the centre. OGC Well Known Text (WKT) format
BOX_UTM	Smallest circumscribing rectangle for the object in UTM coordinates, for point objects an artificial rectangle (1m x 1m) with (UTMRE, UTMHO) as the center. OGC Well Known Text (WKT) format

3 Data volume

- Number of datasets : ca. 149.000
- Data volume in the SHAPE format : 672 MB
- Data volume in the CSV format : 124 MB

4 Data formats

4.1 SHAPE format

The SHAPE format is as a de-facto standard for the exchange of geodata a very widespread and suitable data exchange format.

Each dataset in the SHAPE format consists of the files with file extension:

.SHP	Geometry file
.SHX	ID and coordinates
.DBF	DBASE attribute file (ID and attributes)
.PRJ	Georeferencing
.CPG	Indication of the character encoding

Here, the character encoding of the attributes is UNICODE in UTF-8.

Alternatively, two types of representation can be used:

GN250_p.*	Representation as point geometry
GN250_b.*	Representation as bounding boxes

4.2 CSV format

Text file containing the attribute table (see section 2). The semicolon is used as separator between the attributes of a dataset.

Files:

GN250.CSV	Datasets in alphabetic order of the geographical names
GN_DLMLink.CSV	1:N relation between the NNID of the name objects and one or several UI_ID of the related DLM objects.

Exclusively to institutions of the Federal Government postcodes are also available:

GN_PLZ.CSV	1:N relation between the NNID of the name objects and one or several related postcodes.
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The character encoding is UNICODE in UTF-8.

5 General hints on interpretation

- RS:** The Regional Key (RS) is a 12-digit statistical key as used by the statistical offices. The key number is structured hierarchically and reflects the administrative levels existing in the Federal Republic. The RS indicates the assignment of the locations
to the Land (federal state) (1st and 2nd digit),
to the Regierungsbezirk (administrative district) (3rd digit),
to the Kreis (district) (4th and 5th digit),
to the Verwaltungsgemeinschaft (administrative association) (6th to 9th digit), and
to the Gemeinde (municipality) (10th to 12th digit).
Parts of cities and municipalities carry the statistical key number of the city or municipality they belong to.
- AGS:** The 8-digit Official Key-Number (AGS) is derived from the regional key. However, it is shortened by the code number of the administrative association and constitutes the official statistical key of the municipalities. The AGS indicates the assignment of the locations
to the Land (1st and 2nd digit)
to the Regierungsbezirk (3rd digit),
to the Kreis (4th and 5th digit), and
to the municipality „Gemeinde“ (6th to 8th digit).
Parts of cities and municipalities carry the statistical key number of the city or municipality they belong to.
- RS / AGS:** The regional key as well as the official key-number are shown in the ATKIS object types 'administrative units and locations'.
- LAWA:** The Gewässerkundliche Gebietskennzahl (Hydrological Area Code Number) has been replaced from the DLMS by the unique Waterbody Code Number according to the "Bund/Länder Arbeitsgemeinschaft Wasser" (LAWA)) (German Working Group on Water Issues of the Federal States and the Federal Government).
- Object type:** The type of the object is described by the ATKIS object type (according to the current AAA model). All object types used listed in section 6.
- Location :** The "location of the objects" is designated by Geographical Coordinates (longitude and latitude), by national coordinates in the Gauss-Krüger system (easting, northing) as well as by UTM coordinates (easting, northing) which, as a rule, were measured off from the corresponding sheets of the General Topographic Map 1:200 000 and the Topographic Map 1:50 000.
In the case of settlements, mountains and lakes the coordinate marks a coincidentally selected point in the central area of the respective object. In the case of rivers it marks the mouth or the leave out of the Federal territory.
- Height:** Height indication either by manual digitization from maps or taken out of lists (deviations to official heights from statistical reports are possible).
- HOEHE_GER:** The calculated height indication of the object type "Ortslage"(location) was determined from the DGM10 (digital terrain model; grid width = 10 m) using the point coordinate. Deviations to official heights from statistical reports are possible.
- VIRTUELL:** With locations carrying the attribute VIRTUELL = "Yes" represent names of municipalities without a real location. The coordinates originate from the DLM250 location of the domicile carrying the name of the municipality. For instance, for the city of "Maintal", which consists of four municipality parts: "Bischofsheim", "Dörnigheim", "Hochstadt", and "Wachenbuchen", entries as locations referring to these municipality parts with the attribute Virtual = "no", whereas

for the entire city the attribute Virtual is set to "yes". The relevant coordinate lies in an agricultural area between the municipality parts.

EWZ_GER: Only for the object type "AX_Ortslage". The calculation is made via the official population of the respective municipality and is distributed to the locations in percent. For the distribution in percent the available surface geometries of the respective locations (captured from a minimum size of 0,4 km²) and for smaller locations a standard size of 1 km² were used.

6 Listing of the ATKIS object types used

OBA	ATKIS object type key
AX_Gebaeude	31001
AX_IndustrieUndGewerbeflaeche	41002
AX_TagebauGrubeSteinbruch	41005
AX_FlaecheBesondererFunktionalerPraegung	41007
AX_SportFreizeitUndErholungsflaeche	41008
AX_Friedhof	41009
AX_Strasse	42002
AX_Bahnstrecke	42014
AX_Flugverkehr	42015
AX_Landwirtschaft	43001
AX_Wald	43002
AX_Heide	43004
AX_Moor	43005
AX_Sumpf	43006
AX_UnlandVegetationsloseFlaeche	43007
Gewaesser	44000 ¹
AX_Hafenbecken	44005
AX_StehendesGewaesser	44006
AX_Meer	44007
AX_Turm	51001
AX_BauwerkOderAnlageFuerIndustrieUndGewerbe	51002
AX_BauwerkOderAnlageFuerSportFreizeitUndErholung	51006
AX_SonstigesBauwerkOderSonstigeEinrichtung	51009
AX_Ortslage	52001 ²
AX_Hafen	52002
AX_Schleuse	52003
AX_BauwerkImVerkehrsbereich	53001
AX_Strassenverkehrsanlage	53002
AX_WegPfadSteig	53003
AX_Bahnverkehrsanlage	53004
AX_SeilbahnSchwebebahn	53005
AX_Flugverkehrsanlage	53007
AX_EinrichtungenFuerDenSchiffsverkehr	53008
AX_BauwerkImGewaesserbereich	53009
AX_Gewaessermerkmal	55001
AX_SchifffahrtslinieFaehrverkehr	57002
AX_BoeschungKliff	61001
AX_DammWallDeich	61003
AX_Hoehleneingang	61005
Besonderer_Hoehenpunkt	62090 ³
AX_NaturUmweltOderBodenschutzrecht	71006
AX_SonstigesRecht	71011
AX_Schutzzone	71012
AX_Nationalstaat	73001
AX_Bundesland	73002
AX_Regierungsbezirk	73003
AX_KreisRegion	73004
AX_Gemeinde	73005
AX_Verwaltungsgemeinschaft	73009
AX_Landschaft	74001
AX_Insel	74004

¹ The object types of DLM250 AX_Fliessgewaesser (44001), AX_Gewaesserachse (44004) and AX_Gewaesserstationierungsachse (57003) are merged into the Gewaesser (44000) as a geographic name object. This object type is not GeolInfoDok conform.

² The object types of DLM250 AX_Siedlungsflaeche (41010) are merged into AX_Ortslage.

³ The object type Besonderer_Hoehenpunkt is not GeolInfoDok conform.

7 Terms of use and references

This dataset is available exempted from payment for download and online use via geodata services, according to the law on access to spatial data, for commercial and non-commercial usage.

Usage of the geodata and geodata services is regulated by the *Verordnung zur Festlegung der Nutzungsbestimmungen für die Bereitstellung von Geodaten des Bundes (GeoNutzV)* (Ordinance to determine the conditions for use for the provision of spatial data from the Federation) of 19 March 2013 (Bundesgesetzblatt Jahrgang 2013 Teil I Nr. 14) (Federal Law Gazette 2013, Part 1., No. 14).

In particular, every user must place the respective source note referring to all geodata, metadata and geodata services unambiguously and in optical relationship. Alterations, revisions, new designs or any other variations must be provided with an alteration notice in the source reference.

Source reference and alteration notice must be presented as follows: With the representation on a website the source reference must be linked with the URL "<http://www.bkg.bund.de>".

© GeoBasis-DE / BKG <year of last data ordering>

© GeoBasis-DE / BKG <year of last data ordering> (data changed)

Example:

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8 Data supply

The dataset can be ordered free of charge in the most frequently requested specifications and as a Web service under

www.geodatenzentrum.de → *Open Data*

Against reimbursement of the relevant costs the dataset can be ordered in further georeferencings from the service center's geodata shop and be delivered on data carrier or via per FTP:

www.geodatenzentrum.de → *Online-Shops* → *Geodata*

The respective extraordinary expense will be invoiced by BKG.

Orders and enquiries may be sent to the following address:

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Further information and services can be found under www.geodatenzentrum.de.