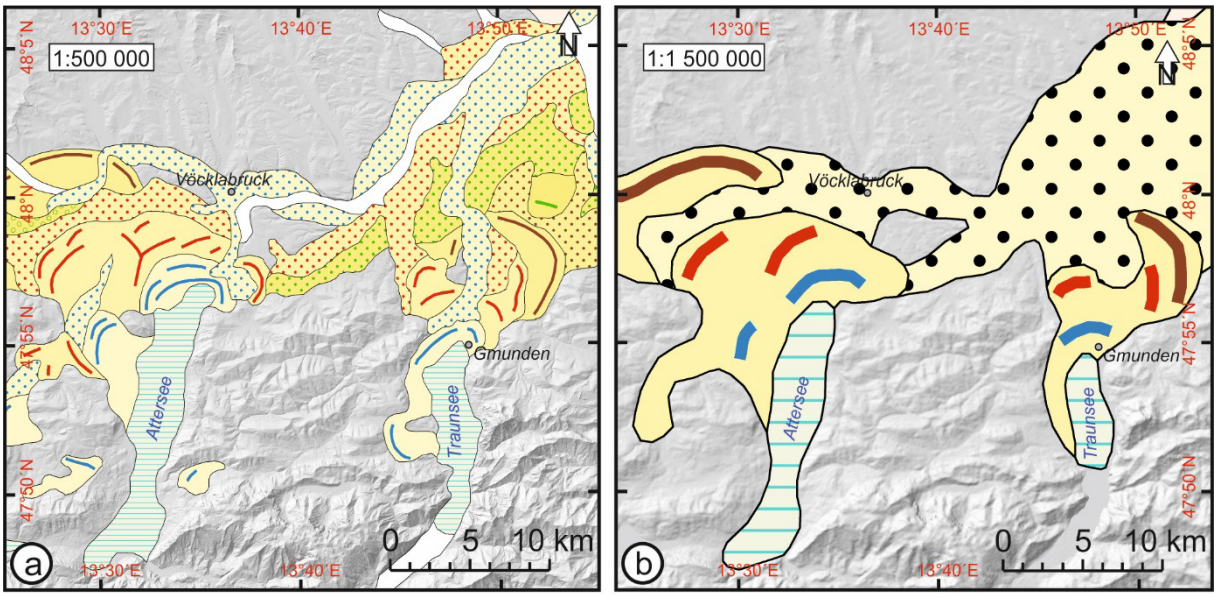
Data description of the geodata
Overview maps of Quaternary sediments and features in Austria and neighbouring countries



Contents

1. General description of the data package

1.1 Short description

The presented data are geological overview maps - scales 1:500 000 and 1:1 500 000 - of the Quaternary of Austria and surrounding areas. The aim in compiling the data was to provide an overview of the existing quaternary sediments and features in Austria. One focus was on the depiction of the four major ice ages (Günz, Mindel, Riss and Würm) and the associated glacial series (drumlins in the terminal moraine basin, terminal moraine ridges, glaciofluvial deposits in the foreland). On closer inspection, the map shows areas where erosion or deposition predominate, allowing conclusions to be drawn about the tectonics during the Quaternary. The distribution of Pleistocene sediments (large piedmont glaciers in the Alpine foreland, loess distribution in non-glaciated areas, late-glacial stages of glacier retreat to higher areas) and Holocene sediments (inner-Alpine landslides, significantly lower distribution of recent river deposits due to increased sediment retention due to vegetation cover) also allows conclusions to be drawn about the palaeoclimate.

These data are in addition to the article published in Austrian Journal of Earth Sciences.
https://doi.org/10.17738/ajes.2024.0009

1.2 Content of the data publication

1. Dataset	Q_UEB_Publikation.gpkg
2. Map publication (1:500.000)	Q500_map.jpg
3. Map publication (1:1.500.000)	Q1500_map.jpg
4. Data description (English)	DataDescription_Q_UEB.pdf

The Geopackage (GPKG) contains no symbolizations (styles and layerfiles) for the visualization and graphical representation of the geometry elements. Only for QGIS, the symbology of each layer is saved in the geopackage and should automatically be applied, when the layers are loaded in QGIS.

The Laserscan image used for the map visualization (*.jpg files) is from SRTM (Shuttle Radar Topography Mission).

1.3 Terms of use

The data sets are scientific data and represent a generalized image of the near-surface geology. No legal claims can be derived from this material.
Special, detailed investigations and issues require task-based data acquisitions.
The data packages, including the description, are licensed under the Creative Commons License "Attribution 4.0 International (CC BY 4.0)".
(https://creativecommons.org/licenses/by/4.0/deed.en).

1.4 Reference system

EPSG 31287 (MGI / Austria Lambert)
Lambert conical projection (reference circle of latitude 46° und 49° north latitude)
Date: MGI (Institute of Military Geography)
Reference ellipsoid: Bessel (1841)

False Easting: 400,000 m
False Northing: 400,000 m
Altitudes: mean water layer of the Adriatic Sea at Trieste, Italy (Epoche 1875).

1.5 Scales

1:500 000 and 1:1 500 000

1.6 Production date of data packages

March 2024

1.7 Author of the datasets

Gerit E.U. Griesmeier

If reference is made to the contents of the published map sheets, then these must be cited as follows: Gerit E.U. Griesmeier (2024): Maps of Quaternary sediments and features in Austria and neighbouring countries at the scales of 1:500 000 and 1:1 500 000. – Austrian Journal of Earth Sciences. 117, 149–161. https://doi.org/10.17738/ajes.2024.0009

1.8 Suggested citation style for the data packages:

Gerit E.U. Griesmeier (2024): Geodata to Overview maps of Quaternary sediments and features in Austria and neighbouring countries. Tethys RDR, GeoSphere Austria, Wien https://doi.org/10.24341/tethys.230

2. Detailed description of the datasets

2.1 Data format

GPKG (Geopackage; https://www.geopackage.org/)

2.2 Data structure of the maps

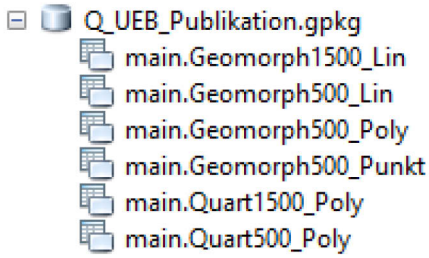


Figure 1: View of the datasets available for download in the application ArcGIS.

2.3 Supplied layers and their attributes

Geomorph1500_Lin
The layer Gemorph1500_Lin contains lines with geomorphological information (ridges of moraines) in scale 1:1 500 000.

Geomorph500_Lin
The layer Gemorph500_Lin contains lines with geomorphological information (ridges of moraines, drumlins) in scale 1: 500 000.

Geomorph500_Poly
The layer Gemorph500_Poly contains polygons with geomorphological information in scale 1: 500 000. The polygons can partly or completely overlap other polygons.

Geomorph500_Pun
The layer Geomorph500_Pun contains points with geomorphological information (late glacial stages) in scale 1:500 000.

Quart1500_Poly
The layer Quart1500_Poly contains polygons with geological information in scale 1:1 500 000. This is the main layer and contains basic information about the Quaternary geology.

Quart500_Poly
The layer Quart500_Poly contains polygons with geological information in scale 1:500 000. This is the main layer and contains basic information about the Quaternary geology.

The layers contain the relevant attributes for the respective topic as a selection from the following table:

Attribute	Type	Description
OBJECTID	Object_ID	Object ID
SHAPE	Geometry	Polygon, Polyline, Point
Q500_ID	Long Integer	ID for scale 500 000
Q1500_ID	Long Integer	ID for scale 1:1 500 000
Legendentext	Text	Legend text in german
Legtext_eng	Text	Legend text in english
Ueberschrift1	Text	Heading text in the map legend, hierarchy level 1
Ueberschrift2	Text	Heading text in the map legend, hierarchy level 2
Ueberschrift3	Text	Heading text in the map legend, hierarchy level 3
Ueber1_eng	Text	Heading text in the map legend, hierarchy level 1, english
Ueber2_eng	Text	Heading text in the map legend, hierarchy level 2, english
Ueber3_eng	Text	Heading text in the map legend, hierarchy level 3, english

Table 1: Attribute table of the files available in Geopackages.