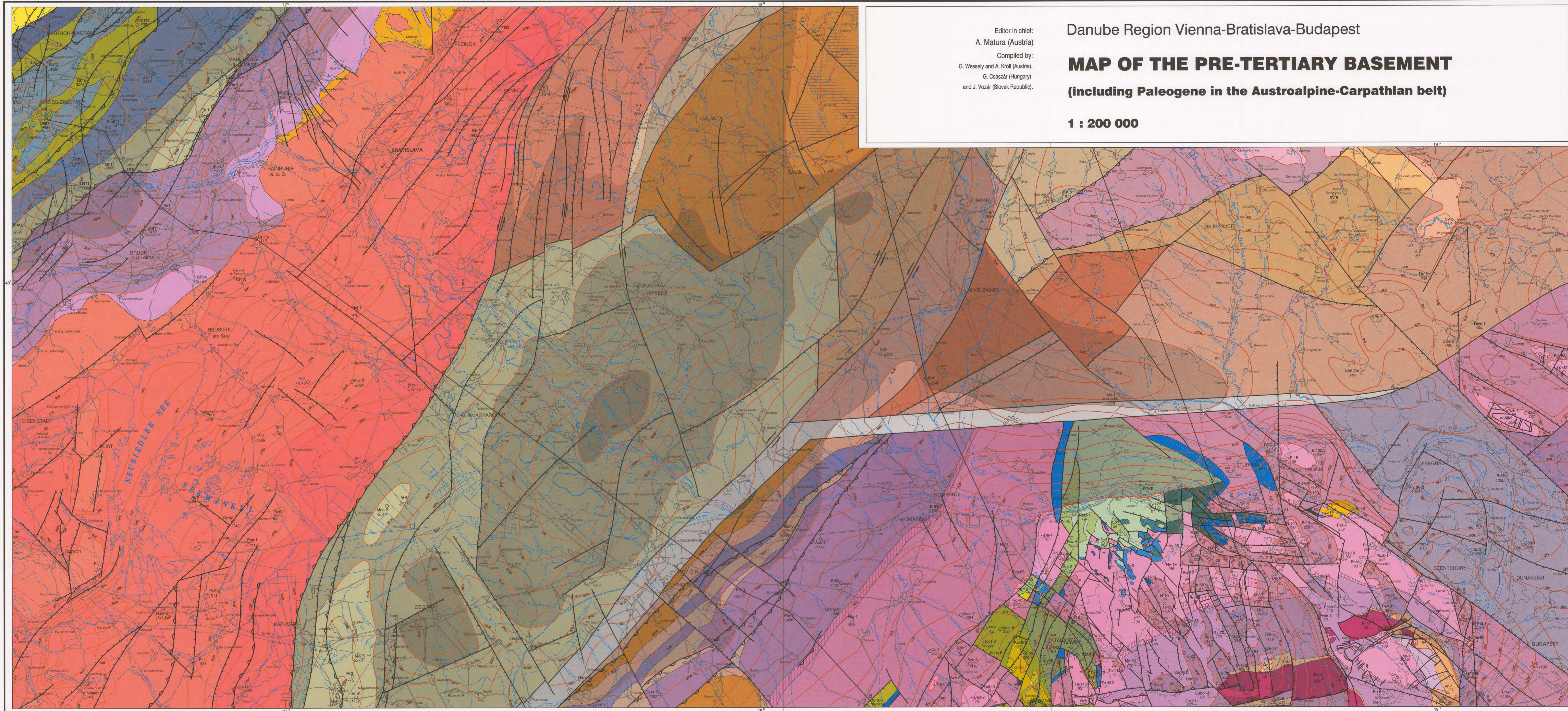


Danube Region Vienna-Bratislava-Budapest

**MAP OF THE PRE-TERTIARY BASEMENT**  
(including Paleogene in the Austroalpine-Carpathian belt)

1 : 200 000

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**AUSTROALPINE-CARPATHIAN BELT**

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| <p><b>Penninicum</b></p> <ul style="list-style-type: none"> <li>Flysch zone (Laab Formation; mainly Upper Paleogene)</li> </ul> <p><b>Upper Austroalpine Unit</b></p> <ul style="list-style-type: none"> <li>Coarse clastics, marls, shales and sandstones (Upper Cretaceous to Paleogene, incl. Gosau syncline)</li> <li>Frankenfels nappe, Lunz nappe (predominantly carbonates; Upper Triassic to Upper Cretaceous)</li> <li>Göll nappe (carbonates; Permian to Upper Cretaceous)</li> <li>High Limestone Alpine nappe (carbonates; Permian to Jurassic, locally with Upper Cretaceous)</li> <li>Grauwacken zone (meta-graywackes, porphyroids, greenschists, carbonates; Paleozoic)</li> <li>Mihályi Phyllite Formation correlated with Graz Paleozoic unit (Lower Paleozoic)</li> </ul> <p><b>Silicium</b></p> <ul style="list-style-type: none"> <li>Shales, limestones (?Lower to Middle Triassic)</li> </ul> | <p><b>Hronicum</b></p> <ul style="list-style-type: none"> <li>Quartzites, shales, carbonates (Benkovský potok Formation; Triassic), conglomerates, sandstones, shales, basalts, andesites (Maluzina Formation; Permian)</li> </ul> <p><b>Fatricium</b></p> <ul style="list-style-type: none"> <li>Vysoka nappe, Krizna nappe (carbonates; Triassic to Jurassic)</li> </ul> <p><b>Southern Veporicum</b></p> <ul style="list-style-type: none"> <li>Quartzites, marbles (type of Federata-Tuhár development; Triassic), conglomerates, sandstones, acid volcanoclastics (Rimava Formation of Revuca Group; Permian), shales, sandstones, intermediate volcanites (Slatviná Formation of Revuca Group; Upper Carboniferous)</li> <li>Metamorphites, Ipoly Complex (Lower Paleozoic); local envelope sequence (Upper Paleozoic to Mesozoic)</li> <li>Granitoids (Alpine) and contact metamorphites</li> </ul> |
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**Northern Veporicum**

- Metasandstones, shales, carbonates (Velky Bok Group; prevailing Triassic), terrigenous sediments, volcanites (Bruno Formation, Predajná Formation; Permian)
- Central Alpine Unit, Tatricium**
- Borinka sequence, Devín sequence, Semmering sequence (phyllites, quartzites, marbles; Permian to Jurassic)
  - Bratislava Massif, Fertődokos Group, Grobogne Complex, Modra Massif, Sopron Group (granitoids, gneisses, phyllites, mica schists, amphibolites; Lower Paleozoic)
  - Pezinok-Pernek zone, Harmónia Formation (metasediments, metavolcanites; Lower Paleozoic)
  - Povazský-Inovec Group (Lower Paleozoic granitoids and metamorphites, locally with Mesozoic carbonates)
  - Tribeč Group (Mesozoic, prevailing Triassic carbonates)
  - Tribeč Group (Lower Paleozoic granitoids, metamorphites)

**PELSO UNIT**

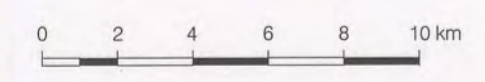
- Cretaceous**
- Budakeszi Picrite Formation (alkaline basic and ultramafic rocks)
  - Pénzeskút Marl Formation (dolomitic nodular marl, upper part sandy)
  - Zirc Limestone Formation (Urgonian facies, upper member sandy, biotritfall)
  - Tés Clay Formation (variegated, lacustrine, brackish-water facies)
  - Környe Limestone Formation (Urgonian facies)
  - Vértessomló Siltstone Formation (dark gray silty marl, with sandstone and breccia intercalations)
  - Tata Limestone Formation (platy crinoidal limestone)
  - Lábatlan Sandstone Formation (sandstone with marl, silt, clay-marl)
  - Berek Marl Formation (grey marl with sandstone intercalations)
- (Lowermost Cretaceous to) Jurassic**
- Platy or nodular red limestone, with radiolarite (continuous sequence)
  - Platy limestone (discontinuous sequence)

**Triassic**

- Dachstein Limestone Formation
  - Transitional beds between Dachstein Limestone and Hauptdolomit
  - Hauptdolomit Formation
  - Veszprém Marl Formation (marl, calcareous marl, limestone)
  - Feketehegy Formation (bituminous dolomite, limestone)
  - Mátyáshegy Formation (limestone, dolomite with chert, marl)
  - Hármashatárhegy dolomite
  - Limestone, dolomite (Upper Triassic)
  - Budaörs Dolomite Formation (Diplopora dolomite)
  - Dolomite, limestone (Middle Triassic)
  - Dolomite, limestone, marl, sandstone (Lower Triassic)
- Upper Permian**
- Balatonfelvidék Sandstone Formation (red sandstone, siltstone, clay)
- Lower Paleozoic**
- Slate, metasandstone

**Other Symbols**

- Geologic boundary
- Nappe boundary
- Fault
- Fault, enclined
- Strike slip fault
- Rába-Hurbanovo fault zone
- Isolines of basement surface (heights in meters related to sea level)
- Borehole (basement top, related to sea level)
- Geologic cross section



Published by  
**MAGYAR ÁLLAMI FÖLDTANI INTÉZET**  
Geological Institute of Hungary

Responsible publisher: Károly Brezanyitsky, Director  
Printed by: CARTOGRAPHIA Ltd., Budapest

GIS and Cartography: MÁFI GIS Department using Intergraph products (source data: MGI, ArcInfo)

Funding:  
Federal Ministry of Science and Transport, Austria  
Supplementary funding:  
Intergraph Hungary Ltd., Budapest

© Geologische Bundesanstalt (GfA), Vienna - Geológická služba Slovenskej republiky (GSSR), Bratislava - Magyar Állami Földtani Intézet (MÁFI), Budapest 1998  
HU ISSN 963 671 200 at CM  
ISSN 963 671 381 at CM