

**Biostratigraphy:** *amorphognathoides* conodont zone (SCHÖNLAUB, 1977b).

**Thickness:** > 1,000 m.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Blasseneck Porphyry, Gerichtsgraben Formation.

**Overlying unit(s):** Crinoidal Limestones (SCHÖNLAUB, 1982a).

**Lateral unit(s):** Polster Quartzite, Cystoid Limestone.

**Geographic distribution:** E-GWZ; Styria, Eisenerzer Alpen.

**Remarks:** Working term of SCHÖNLAUB (1982a) for ?Upper Ordovician–Silurian metaclastics and lydites above the Blasseneck Porphyry. Thick basic volcanics included within this unit are separated as “Volcanics” in the ASC 2004.

**Complementary references:** TOLLMANN (1977), SCHÖNLAUB (1979, 1980a), EBNER et al. (1989), FLAJS & SCHÖNLAUB (1973), SCHÖNLAUB & HEINISCH (1993).

#### Polster Quarzite / Polster Quartzite

FRITZ EBNER

**Validity:** Invalid; detailed descriptions (FLAJS & SCHÖNLAUB, 1976; STATTEGGER, 1980) are used in terms of a formation but not formalized.

**Type area:** Präßchl area, ÖK50-UTM, map sheet 4215 Eisenerz (ÖK50-BMN, map sheet 101 Eisenerz).

**Type section:** Polsterkar (N 47°32'05" / E 15°00'55"), ÖK50-UTM, map sheet 4215 Eisenerz (ÖK50-BMN, map sheet 101 Eisenerz).

**Reference section(s):** -

**Derivation of name:** According to the lithology and the mountain Polster (1,910 m; N 47°31'11" / E 14°58'28") in the Eisenerzer Alpen; ÖK50-UTM, map sheet 4215 Eisenerz (ÖK50-BMN, map sheet 101 Eisenerz).

**Synonyms:** “Rogenstein-Quarzit” (HIESSELTNER, 1929).

**Lithology:** Grey to grey-brownish massive and indistinctly bedded, coarsening upwards quartzites (diameter of quartz components: 2 mm to 0.5 mm) (FLAJS & SCHÖNLAUB, 1976; STATTEGGER, 1980).

**Fossils:** Imprints of brachiopods, bryozoans (REDLICH, 1923; HERITSCH, 1927a; SCHOUPPÉ, 1950).

**Origin, facies:** Sandy coastal transgressional sequence with detrital material deriving from a low grade metamorphic hinterland and the reworked underlying Blasseneck Porphyry (STATTEGGER, 1980).

**Chronostratigraphic age:** Upper Ordovician (Katian-Hirnantian).

**Biostratigraphy:** *amorphognathoides ordovicicus* Zone is assumed due to conodonts in the footwall and hanging wall (see Gerichtsgraben Formation and Cystoid Limestone, respectively; FLAJS & SCHÖNLAUB, 1976; SCHÖNLAUB, 1982a).

**Thickness:** 60–80 m.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Blasseneck Porphyry (erosional unconformity?).

**Overlying unit(s):** Cystoid Limestone.

**Lateral unit(s):** Petersbaumgraben Formation (PGF in Text-Fig. 2).

**Geographic distribution:** E-GWZ; Styria, NE Eisenerzer Alpen.

**Remarks:** -

**Complementary references:** TOLLMANN (1977), SCHÖNLAUB (1979, 1980a), EBNER et al. (1989), SCHÖNLAUB & HEINISCH (1993).

#### Petersbaumgraben-Formation / Petersbaumgraben Formation [= acronym PGF in Text-Fig. 2]

FRITZ EBNER

**Validity:** Invalid; first, but not formalized description in the rank of a formation as “Petersbauernbach-Formation” by HERMANN (1992) which was later re-named to Petersbaumgraben Formation (NEUBAUER et al., 1994; PILLER et al., 2004).

**Type area:** Petersbauernbachgraben, ÖK50-UTM, map sheet 4216 Bruck an der Mur (ÖK50-BMN, map sheet 132 Trofaiach).

**Type section:** NE striking ridge W of Petersbauernbach (N 47°27'41" / E 15°03'16"), ÖK50-UTM, map sheet 4216 Bruck an der Mur (ÖK50-BMN, map sheet 132 Trofaiach); not described in detail by HERMANN (1992).

**Reference section(s):** -

**Derivation of name:** After the Petersbauernbach valley, ÖK50-UTM, map sheet 4216 Bruck an der Mur (ÖK50-BMN, map sheet 132 Trofaiach) which name was later wrongly changed to Petersbaumgraben (NEUBAUER et al., 1994) and also adopted in the ASC 2004.

**Synonyms:** “Petersbauernbach Formation” (HERMANN, 1992).

**Lithology:** The sequence starts with alternating black siliceous schists, phyllites and some ignimbritic layers followed by horizons of conglomerates/breccias, light sandstones and phyllitic quartzites. The top is made up by dark phyllites with thin intercalations of coarse sands and fine conglomerates (HERMANN, 1992).

**Fossils:** -

**Origin, facies:** -

**Chronostratigraphic age:** ?Uppermost Ordovician.

**Biostratigraphy:** -

**Thickness:** 60 m.

**Lithostratigraphically higher rank unit:** “Norische Gruppe” (HERMANN, 1992).

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Blasseneck Porphyry.

**Overlying unit(s):** Rad Schists (HERMANN, 1992).

**Lateral unit(s):** Polster Quartzite.

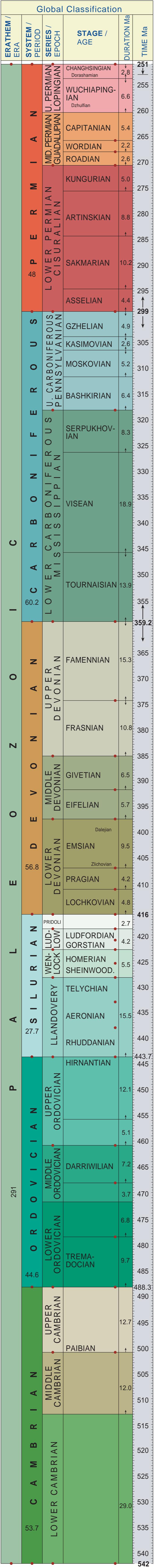
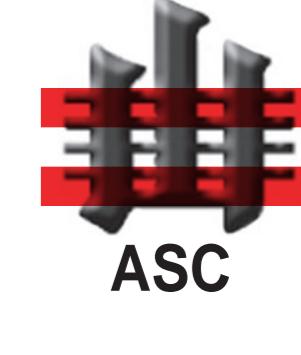
**Geographic distribution:** E-GWZ; Styria, NE Trofaiach.

**Remarks:** According to the ÖK50-BMN, map sheet 132 Trofaiach the today's name of the type locality is Petersbauernbach.

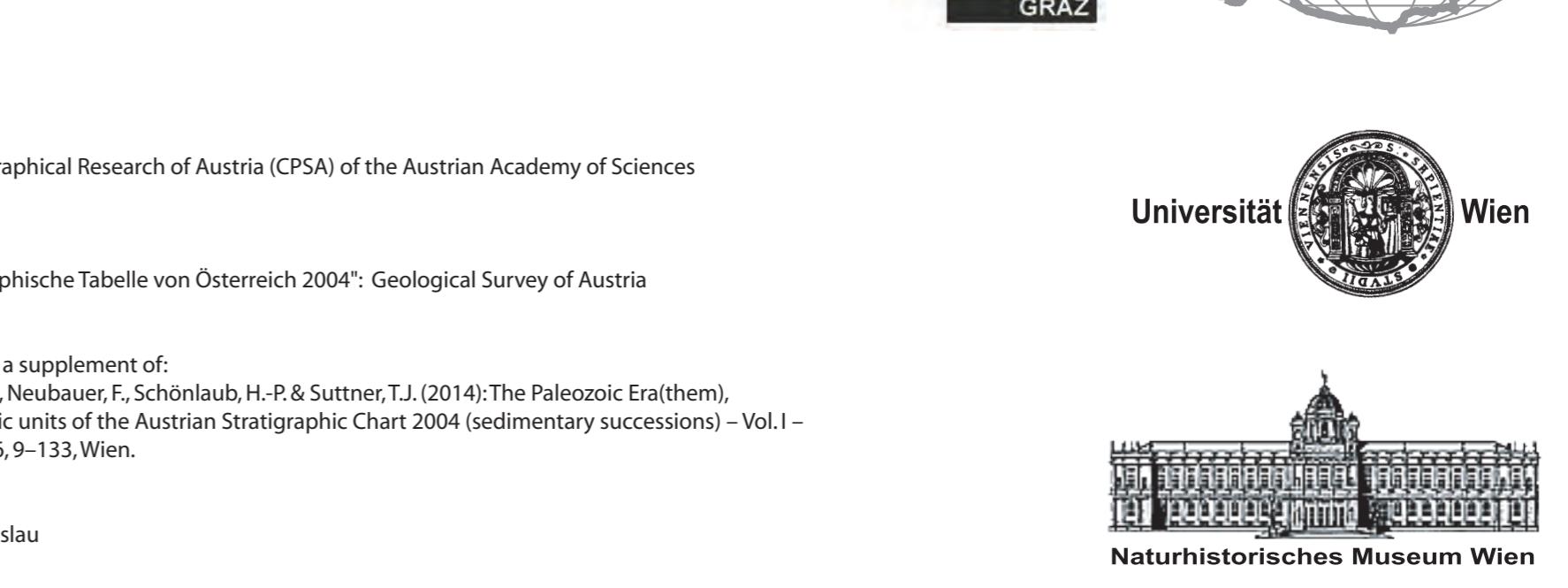
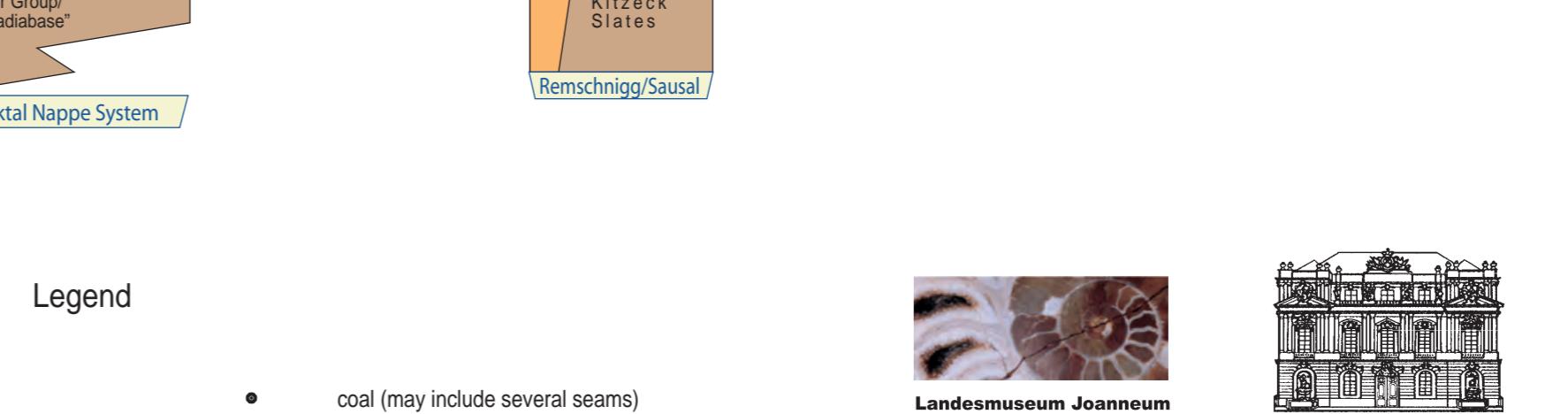
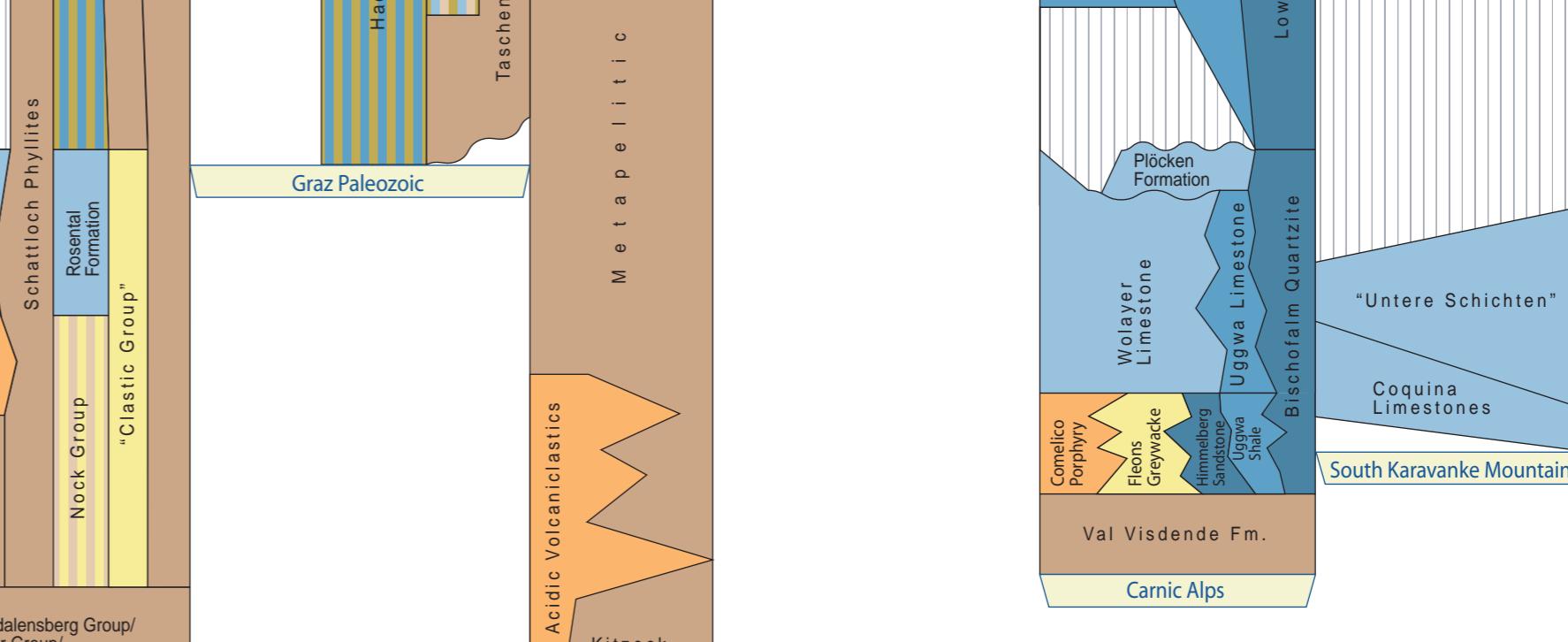
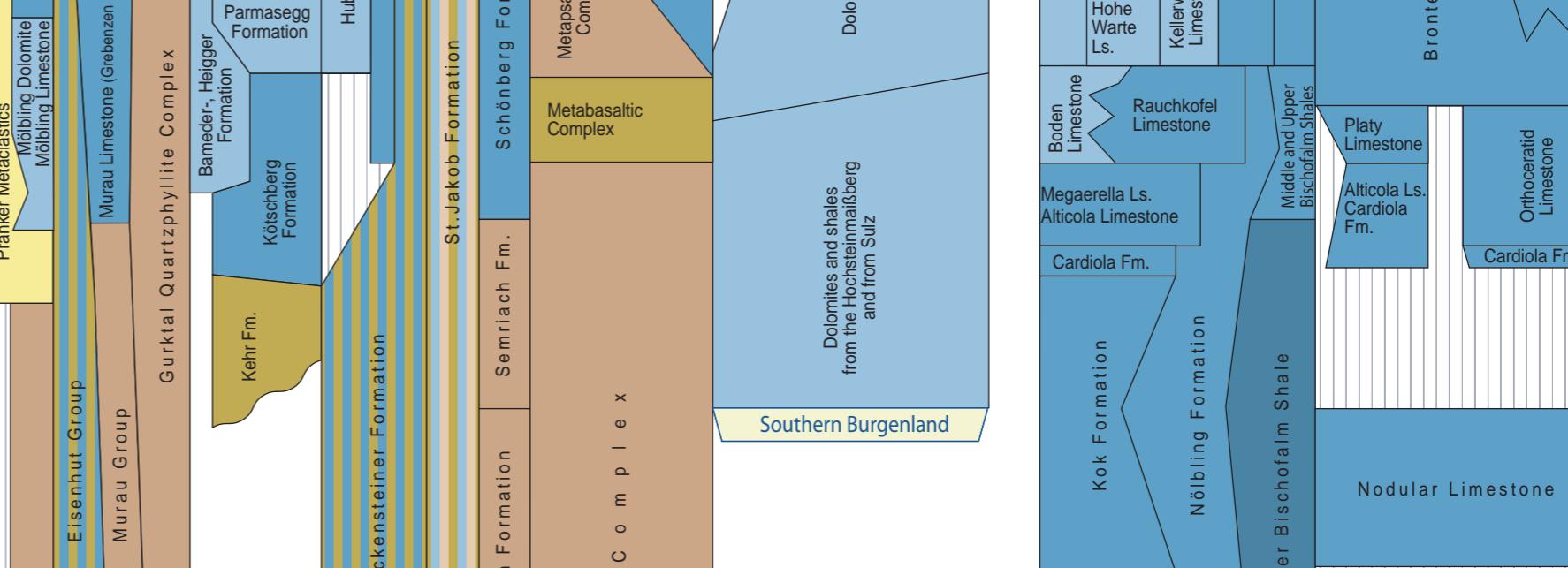
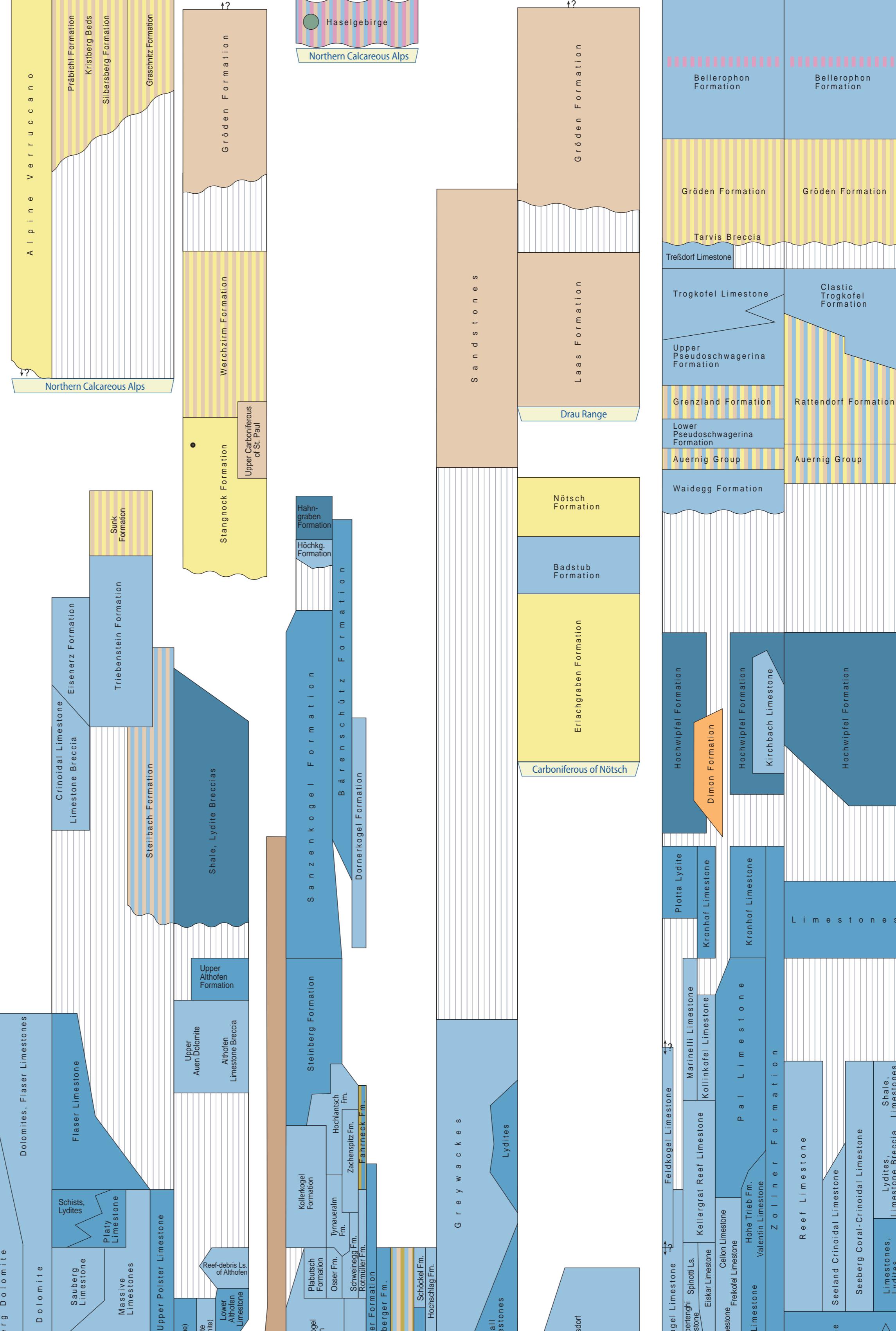
**Complementary references:** -

# Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)



Austrian Stratigraphic Commission



Naturhistorisches Museum Wien

Geologische Bundesanstalt

Universität Wien

Printing: Gras Druck & Neue Medien GmbH, Bad Vöslau 2014

The Austrian Stratigraphic Chart 2004 - Paleozoic is a supplement of:

Hubmann, B., Ebner, F., Ferretti, A., Kidd, E., Krainer, K., Neubauer, F., Schönlaub, H.-P. & Suttorp, T.J. (2014): The Paleozoic Era(therm), 2<sup>nd</sup> edition.– In: Piller, W.E. [Ed.]: The lithostratigraphic units of the Austrian Stratigraphic Chart 2004 (sedimentary successions) – Vol.I – Abhandlungen der Geologischen Bundesanstalt, 66, 9–133, Wien.

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Cutout and English adaptation of the "Die Stratigraphische Tabelle von Österreich 2004": Geological Survey of Austria

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