

Reference section(s): Greitnerkogel (N 47°12'55" / E 15°17'25") (FRITZ, 1991).

Derivation of name: After the hill Parmasegg (785 m) 28 km north of Graz (FRITZ, 1991).

Synonyms: Crinoiden-Schichten (H. FLÜGEL, 1960, 1961, 1975); partly: Kalkschiefer-Folge (CLAR, 1874); unterer Cri-noidenkalk (HOERNES, 1880); Kalkschieferstufe (HERITSCH, 1906); Kalkschieferstufe i.A. (WAAGEN, 1937); Plattenkalke und Schiefer des e-gamma (SEELMEIER, 1944); ef-Flaser-Plattenkalke (SCHOUPPÉ, 1953); plattige Kalkschiefer (WE-BER, 1990).

Lithology: Major parts of the succession consist of platy crinoidal limestones intercalated with sandy marls and sand/siltstones.

Fossils: Fossils are rare (conodonts, badly preserved rugose corals, indeterminable crinoids).

Origin, facies: Intertidal to shallow subtidal environment.

Chronostratigraphic age: Pragian (may locally also contain uppermost Silurian (*eosteinhornensis* conodont zone); FRITZ, 1991: p. 232)–lower Emsian (?).

Biostratigraphy: See above.

Thickness: 150–200 m.

Lithostratigraphically higher rank unit: Rannach Group.

Lithostratigraphic subdivision: FRITZ (1991) distin-guished four members (Dolomit-Siltschiefer Member, Kar-bonat-Mergel Member, Plattenkalk Member and Siltstein Member) in the type region. FLÜGEL (2000) divided the forma-tion into three members:

Greitnerkogel Member: Blue-grey platy limestones and cri-noidal limestones; less than 100 m in thickness.

Oberbichl Member: Succession of brown platy silty lime-stones, flaser- and crinoid-limestones, and sand/silt-stones; some tens of meters in thickness.

Stiwoll Member: Yellowish marly sand/siltstones; about 80 m in thickness.

Underlying unit(s): Kötschberg Formation.

Overlying unit(s): Flösserkogel Formation.

Lateral unit(s): Bameder Formation, Heigger Formation.

Geographic distribution: Styria, highland in the surround-ings of Graz; ÖK50-BMN, map sheets 134 Passail, 163 Voitsberg, 164 Graz.

Remarks: -

Complementary references: HUBMANN & MESSNER (2007).

Kogler-Formation / Kogler Formation

BERNHARD HUBMANN

Validity: Valid; first nomination by GOLLNER & ZIER (1985: "Koglerformation"), formalized by FLÜGEL (2000: p. 43; Kogler-Formation).

Type area: ÖK50-UTM, map sheet 4223 Weiz (ÖK50-BMN, map sheet 134 Passail).

Type section: No type section defined, but FLÜGEL (2000) selected a type region in the vicinity of the farmstead "Kogler", south of St. Erhard, ÖK50-BMN, map sheet 134 Passail (N 47°22'43" / E 15°27'13").

Reference section(s): -

Derivation of name: After the farmstead "Kogler", south of St. Erhard (Breitenau valley), approx. 55 km north of Graz.

Synonyms: Partly: Kalkschiefer-Folge (CLAR, 1874); Kalk-schieferstufe i. A. (WAAGEN, 1937).

Lithology: Darkblue to darkgrey, platy and banded lime-stones, locally with sandstone alternations.

Fossils: Conodonts; rare tabulate and rugose corals.

Origin, facies: Shallow marine deposits.

Chronostratigraphic age: Due to the lack of stratigraphi-cally meaningful fossils no exact age determinable; pre-sumably Lower to Middle Devonian (?Upper Devonian).

Biostratigraphy: -

Thickness: Up to 800 m.

Lithostratigraphically higher rank unit: Peggau Group (FLÜGEL, 2000).

Lithostratigraphic subdivision: FLÜGEL (2000) distin-guished three members:

Geschwend Member: Alternating limestones, silt- to sand-stones and subordinate argillaceous shales and dolomites, locally volcanites; up to 800 m (?) in thickness.

Sattelbauer Member: Lightgrey, locally fossiliferous lime-stones (corals, brachiopods) with chert nodules; thickness about 150 m.

Spatl Member: Reddish to violet micritic (flaser) lime-stones, sandstone and argillaceous shales with intercalations of thin-bedded alkaline volcaniclastics; about 100 m in thickness.

Underlying unit(s): In the area east of the Hochlantsch and the basin of Passail the Kogler Formation is underlain by the Rauchenberg Member of the Schönberg Formation.

Overlying unit(s): North of the Tyrnaueralm successions of the Laufnitzdorf Nappe overly the Kogler Formation, whereas south of the Tyrnaueralm the formation is overlain by successions of the Schöckel Nappe.

Lateral unit(s): -

Geographic distribution: Styria, highland in the surround-ings of Graz; ÖK50-BMN, map sheets 133 Leoben, 134 Passail, 163 Voitsberg.

Remarks: Lithological content of the formation is very similiar to the Hochschlag Formation and the Hubenhalt Formation respectively (FLÜGEL, 2000).

Complementary references: EBNER (1998).

Hubenhalt-Formation / Hubenhalt Formation

BERNHARD HUBMANN

Validity: Valid; first description by PENECKE (1890: "Kal-ke und Kalkschiefer der Hubenhalt", formalized by FLÜGEL (2000: p. 44–45; Hubenhalt-Formation).

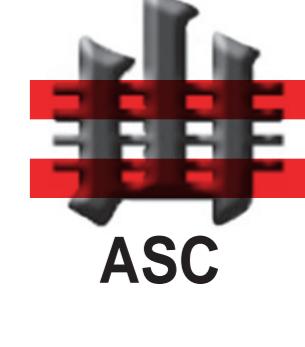
Type area: Hubenhalt northwest of Fladnitz (Teichalpe area), ÖK50-UTM, map sheet 4223 Weiz (ÖK50-BMN, map sheet 134 Passail).

Type section: No type section defined. FLÜGEL (2000) selected a type region at Hubenhalt, northwest of Flad-nitz ÖK50-BMN, map sheet 134 Passail (N 47°19'15" / E 15°26'40"), approx. 40 km north of Graz.

Reference section(s): -

Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)



Austrian Stratigraphic Commission

