

**Derivation of name:** After Uggwa creek, 200 m NNE of Rifugio Fratelli Nordio close to the village of Ugovizza in Friuli-Venezia Giulia, Italy (VAI, 1971).

**Synonyms:** Knollenkalk (STACHE, 1884: p. 324); Tonflaserkalke (SPITZ, 1909); Ashgill (GAERTNER, 1931: p. 133); Bereich I [partim] (WALLISER, 1964: Fig. 10, Tab. 1, p. 95); Nodular Limestone Member of the Uqua Formation (VAI, 1971); Flaserkalke, Knollenkalke, Kalkknollenschiefer (SCHÖNLAUB, 1971a: p. 368); Ashgill-Tonflaserkalk der "Stillwasser-Fazies" (SCHÖNLAUB, 1971a: Fig. 2); Uggwakalk (SCHÖNLAUB, 1979: Fig. 19, p. 44); Formazione di Uqua (VAI et al., 1984); Uggwa Formation (KREUTZER, 1992b).

**Lithology:** Grey to colored flaser limestone with bioclastic debris layers (KREUTZER, 1992b).

**Fossils:** Acritarchs, brachiopods, cephalopods, chitinozoans, crinoids, foraminifers, ostracods, styliolinids, tentaculites, trilobites.

**Origin, facies:** Marine limestone, represented by allochthonous deposits of deeper marine settings that derived from the higher energetic Wolayer Limestone (FLÜGEL, 1965; SCHÖNLAUB, 1971a; DULLO, 1992).

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

**Biostratigraphy:** *ordovicicus* conodont zone (SERPAGLI, 1967; FERRETTI & SCHÖNLAUB, 2001).

**Thickness:** 1.1 m (at Rifugio Fratelli Nordio) to 5.4 m (at Cellon).

**Lithostratigraphically higher rank unit:** Uggwa Facies (informal).

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Uggwa Shale (conformable contact).

**Overlying unit(s):** Plöcken Formation (conformable contact).

**Lateral unit(s):** Wolayer Limestone, Bischofalm Quartzite.

**Geographic distribution:** Carnic Alps.

**Remarks:** At the section north of Rifugio Fratelli Nordio the thickness of this unit is limited to 1.1 m to some 3 m compared with the type section at Cellon (5.4 m). In addition, the overlying Plöcken Formation is badly exposed as is the overlying shale sequence. According to JAEGER et al. (1975, p. 275) and SCHÖNLAUB (1988: p. 109) a distinct lithological change takes place within bed no. 5 or slightly below. This level defines the base of the succeeding Plöcken Formation ("4+").

**Complementary references:** SCHÖNLAUB (1980b, 1991, 1992, 2000b), PRIEWALDER (1987, 1997, 2000), BAGNOLI et al. (1998), BOGOLEPOVA & SCHÖNLAUB (1998), VAI (1998), SCHÖNLAUB & HISTON (2000), HUBMANN et al. (2003), SCHÖNLAUB et al. (2004), VENTURINI (2006), BRIME et al. (2008).

### Plöcken-Formation / Plöcken Formation

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**Validity:** Valid (KREUTZER, 1992b sensu WALLISER, 1964); first description by GAERTNER (1931: p. 133) followed by SCHÖNLAUB (1969a: p. 280–281) and JAEGER et al. (1975: p. 275–278); name first used by SCHÖNLAUB (1985a: p. 38).

**Type area:** ÖK50-UTM, map sheets 3109 Oberdrauburg, 3110 Kötschach-Mauthen, 3116 Sonnenalpe Naßfeld (ÖK50-BMN, map sheet 197 Kötschach).

**Type section:** Cellon avalanche gully, beds 6–8 (WALLISER, 1964), beds 5–8 (SCHÖNLAUB, 1985a); N 46°36'32" / E 12°56'25"; altitude 1,500 m.

**Reference section(s):** Section Hoher Trieb south of Obere Bischofalm (SCHÖNLAUB, 1969a, 1980b: Fig. 27, p. 50); Feistritzgraben (SCHÖNLAUB, 1980b: Figs. 4, 28; p. 52).

**Derivation of name:** After the geographic name "Plöcken" in the central Carnic Alps (Austria).

**Synonyms:** Untere Schichten (GAERTNER, 1931: p. 133); Bereich I [partim] (WALLISER, 1964: Fig. 10, Tab. 1, p. 95); Mikrofazies-Schicht '2: "Schillsandstein" and Mikrofazies-Schicht '3: "Gradierte Sandsteine" (SCHÖNLAUB, 1969a); Siltstone and Sandstone (VAI, 1971).

**Lithology:** Coarse-grained indistinctly bedded impure limestones which grade into calcareous sandstone. In the lower part contorted deformation structures, slippings, channel fillings, loosely packed matrix-supported subangular clasts of varying composition are common as is the accumulation of fossil debris.

**Fossils:** Acritarchs (PRIEWALDER, 1987), calcareous algae, bivalves, brachiopods (JAEGER et al., 1975), chitinozoans (PRIEWALDER, 1997), conodonts (WALLISER, 1964; FERRETTI & SCHÖNLAUB, 2001), crinoids, gastropods, graptolites (rare), ostracods (SCHALLREUTER, 1990), sponge spicula (FERRETTI & SCHÖNLAUB, 2001).

**Origin, facies:** Marine sediments, which according to SCHÖNLAUB (2000b) are strongly influenced by the Late Ordovician glacial event. The influence of the Hirnantian ice age on the depositional environment is characterized by channeling, erosion and local non-deposition.

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

**Biostratigraphy:** *persculptus* graptolite zone (JAEGER et al., 1975) and a mixed conodont fauna including elements of the *ordovicicus* Zone and some stratigraphically slightly younger species (FERRETTI & SCHÖNLAUB, 2001).

**Thickness:** Varies between 1.5 and 9 m; at its type section, the unit reaches 5.4 m in thickness.

**Lithostratigraphically higher rank unit:** Uggwa Facies (informal).

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Wolayer Limestone (unconformable contact), Uggwa Limestone (conformable contact).

**Overlying unit(s):** Kok Formation (unconformable contact); Nöbling Formation (unconformable contact).

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

**Geographic distribution:** Carnic Alps.

**Remarks:** -

**Complementary references:** SPITZ (1909), SCHÖNLAUB (1971a, 1991), PRIEWALDER (2000), SCHÄTZ et al. (1997, 2002), VAI (1998), SCHÖNLAUB & HISTON (2000), HUBMANN et al. (2003), SCHÖNLAUB et al. (2004).

# Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)

