

FLÜGEL, 1961, 1975); Barrandeikalk-Formation (HUBMANN, 1993; FLÜGEL et al., 2011). During evaluation of the conceptional content of the formation and re-definition (HUBMANN, 2003: p. 285–287) the Draxler-Formation (sensu FLÜGEL, 2000: p. 25; equivalent to “unterer Schweineggkalk” of ZIER, 1982) was synonymised with the Plabutsch Formation.

Lithology: The succession represents a highly fossiliferous sequence dominated by dark marly bioclastic limestones. In the lower parts, especially at the boundary to the underlying Flösserkogel Formation yellow to brownish shales occasionally blotched with moulds of chonetid brachiopods are characteristic. In the upper parts of the formation intercalations of red marls and marly limestones are common.

Fossils: Coral and sponge taxa dominate the diverse fauna. Among tabulate corals most common are thamnoporids (*Thamnopora reticulata*, *Th. vermicularis*, “*Striatopora*” *suessi*), favositids (*Favosites styriacus*, *F. alpinus*), and heliolitids (*Pachycanalicula barrandei*). The rugose coral fauna is dominated by mostly fractured dendroid (phaceloid) taxa. A frequent and distinctive phillipsastreid taxon is *Thamnophyllum* (*Th. stachei*, *Th. murchisoni*). Stromatoporoids are mostly recrystallized and thus precluding precise determinations (common genera are *Actinostroma* and *Clathrocoilona*). Among brachiopods the thick valued *Zdimir cf. hercynicus* may occur in coquina horizons. For faunal list see H. FLÜGEL (1975: p. 44–46).

Origin, facies: A deposition on a differentiated and gently inclined carbonate platform of some few (tens) meters is assumed (HUBMANN, 1993). Conspicuous is the rarity of in situ organisms, the intermittently high supply of clayey sediments (marl-limestone intercalations) and high supply of lime mud, temporary influx of high amounts of continental phytoclasts and storm impacts (tempestites) (HUBMANN, 1995).

Chronostratigraphic age: Eifelian; locally the sequence may range from Upper Emsian to Lower Givetian (HUBMANN, 1993).

Biostratigraphy: -

Thickness: 80–100 m, strong variation.

Lithostratigraphically higher rank unit: Rannach Group.

Lithostratigraphic subdivision: In some sections at the base of the unit less than 5 m thick brownish to yellow marly slates with moulds of chonetid brachiopods are named Gaisberg Bed (FLÜGEL, 2000; HUBMANN & FRITZ, 2004; HUBMANN & MESSNER, 2007).

Underlying unit(s): Flösserkogel Formation (conformable contact, transgressive).

Overlying unit(s): Kollerkogel Formation (conformable contact).

Lateral unit(s): Flösserkogel Formation, Kollerkogel Formation, Tyrnaueralm Formation, Osser Formation.

Geographic distribution: Styria, highland in the surroundings of Graz; ÖK50-BMN, map sheets 134 Passail, 162 Köflach, 163 Voitsberg, 164 Graz.

Remarks: -

Complementary references: EBNER & HUBMANN (2012).

Osser-Formation / Osser Formation

BERNHARD HUBMANN

Validity: Valid; first entry by VACEK (1891: “Ossekalk”); formalized by FLÜGEL (2000: p. 25; Osser-Formation).

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

Type section: Not defined, but FLÜGEL (2000) defined the hill Osser (N 47°20'40" / E 15°30'03") north of Passail as type region.

Reference section(s): -

Derivation of name: After the hill Osser (1,548 m) north of Graz (FLÜGEL, 2000).

Synonyms: Partly: Kalkschiefer [Folge] (CLAR, 1874; HERITSCH, 1917c); Flaserkalk (Ossekalk) (CLAR et al., 1929); Kalkschiefer-Stufe im Allgemeinen (WAAGEN, 1937); Kalkschiefer-Folge (H. FLÜGEL, 1961, 1975).

Lithology: Bluish platy tectonically stressed flaser limestones and grey dolostones with local intercalations of marly clay/siltstones and sandstones.

Fossils: Bad preserved rugose and tabulate corals.

Origin, facies: Shallow subtidal environment.

Chronostratigraphic age: ?Eifelian.

Biostratigraphy: -

Thickness: 50–100 m.

Lithostratigraphically higher rank unit: Rannach Group (FLÜGEL, 2000, p. 25).

Lithostratigraphic subdivision: -

Underlying unit(s): Flösserkogel Formation.

Overlying unit(s): Tyrnaueralm Formation?

Lateral unit(s): Plabutsch Formation?

Geographic distribution: Styria, highland in the surroundings of Graz, southeast of the Teichalm; ÖK50-BMN, map sheet 134 Passail.

Remarks: -

Complementary references: STATTEGGER (1984).

Schweinegg-Formation / Schweinegg Formation

BERNHARD HUBMANN

Validity: Valid; first description by ZIER (1982: “oberer Schweineggkalk”); formalized by FLÜGEL (2000: p. 35–36; Schweinegg-Formation).

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

Type section: No type section defined, but FLÜGEL (2000) appointed the Schweinegg (= Schweineck, 1,457 m), a hill southwest of Teichalmhütte in the Hochlantsch area as type region (N 47°20'52" / E 15°26'40").

Reference section(s): -

Derivation of name: After a hill called Schweinegg in the Hochlantsch region, approximately 55 km north of Graz.

Synonyms: Oberer Schweineggkalk (ZIER, 1982).

Lithology: Dark grey to brown fossiliferous limestones.

Fossils: Stromatoporoids, rugose and tabulate corals, crinoids (see ZIER, 1982).

Origin, facies: Subtidal depositional environment with minor terrigenous influx.

Austrian Stratigraphic Chart 2004 - Paleozoic

(sedimentary successions)

