

## Cystoideen Kalke / Cystoid Limestone

FRITZ EBNER

**Validity:** Invalid; not formalized working term. First detailed description by FLAJS & SCHÖNLAUB (1976).

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

**Type section:** Ca. 30 m (altitude 1,575 m) above the bend (N 47°31'44" / E 14°58'03") of the Knappensteig (trail from Präbichl Pass to Leobner Hütte) at the ridge separating the Polsterkar and the Polster S-slope (ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 101 Eisenerz).

**Reference section(s):** -

**Derivation of name:** Due to the occurrence of debris and some theca of cystoidea (FLAJS & SCHÖNLAUB, 1976).

**Synonyms:** -

**Lithology:** Light grey to pinkish spotted, indistinctly bedded, pure sparry limestones with weak flaser texture followed by 5 m calcareous sandstones (FLAJS & SCHÖNLAUB, 1976).

**Fossils:** Recrystallized cystoids (debris and theca), rich conodont fauna (FLAJS & SCHÖNLAUB, 1976).

**Origin, facies:** Marine shallow water environment.

**Chronostratigraphic age:** Upper Ordovician (upper Katian-Hirnantian) (FLAJS & SCHÖNLAUB, 1976).

**Biostratigraphy:** *amorphognathus ordovicicus* conodont zone (FLAJS & SCHÖNLAUB, 1976).

**Thickness:** 13 m.

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

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

**Overlying unit(s):** "Red Sparitic Limestone" (FLAJS & SCHÖNLAUB, 1976: Fig. 3); ? transgressive contact.

**Lateral unit(s):** "Übergangsporphyrroid" at Erzberg (KERN, 1927; SCHÖNLAUB, 1982a; not indicated in Text-Fig. 2): alternation of 6–8 m thick dm-bedded light limestones with greenish grey sandy layers followed by ankeritic material.

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

**Remarks:** -

**Complementary references:** TOLLMANN (1977), SCHÖNLAUB (1979, 1980a, 1982a), EBNER et al. (1989), SCHÖNLAUB & HEINISCH (1993).

## Vulkanite / Volcanics

FRITZ EBNER

**Validity:** Invalid; not formalized working term.

**Type area:** ÖK50-UTM, map sheet 4215 Eisenerz (ÖK50-BMN, map sheets 131 Kalwang and 132 Trofaiach).

**Type section:** Not defined. Detailed descriptions derive from the mountain Kragelschinken (1,845 m, N 47°29'21" / E 14°49'26") and along the section in the upper Lange Teichen valley (starting NNE of the foot of Mt. Wildfeld, N 47°28'18" / E 14°48'29") (HIESSLEITNER, 1931; SCHÖNLAUB, 1977a, b, 1982a, b).

**Reference section(s):** -

**Derivation of name:** According to lithology.

**Synonyms:** "Kragelschinken Folge" (EBNER et al., 1989); "Basische Vulkanite" in the geological map 1:25,000 (SCHÖNLAUB, 1982a).

**Lithology:** Alternation of mottled schists ("Fleckenschiffer" = green schists with dark spots of chlorite), diabase schists, sandy-quartzite schists and subordinate layers of massive plagioclase-hornblende rocks (HIESSLEITNER, 1931; DAURER in SCHÖNLAUB, 1982a). Parts of the sequence are characterized as volcaniclastics (lapilli and ash tuffs), basaltic lavas with well preserved pillow structures and concordant swarms of gabbroic sills (SCHLAEDEL-BLAUT, 1990).

**Fossils:** Conodonts, crinoids from intercalations of Crinoidal Limestone (SCHÖNLAUB, 1977a, b).

**Origin, facies:** Two sections (Finzenkogel, Schleichberg) NW Trofaiach (ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 132 Trofaiach) were characterized by SCHLAEDEL-BLAUT (1990) in terms of volcanic islands (sensu FISHER, 1984). Section Finzenkogel: submarine proximal pyroclastic flow facies at the flank of a volcanic island at the transition of effusive to explosive eruptions below or above PCL (= pressure compensation level at water depths of ~ 500 m; stadium A and B<sub>1</sub> sensu FISHER, 1984). Section Schleichberg: upper part of a pillow volcano below PCL (stadium A sensu FISHER, 1984).

**Chronostratigraphic age:** Silurian (boundary Llandovery/Wenlock) (SCHÖNLAUB, 1982a).

**Biostratigraphy:** *amorphognathoides* Zone in crinoidal limestone intercalations within tuffitic volcanics as well as limestone intercalations within black schists/Lydites below and above the volcanics (SCHÖNLAUB, 1976, 1977a, 1982a).

**Thickness:** 250–300 m at Paarenkogel and Kragelschinken (HIESSLEITNER, 1931). Along the Gößgraben (WSW Trofaiach, ÖK50-UTM, map sheet 4215 Eisenerz, ÖK50-BMN, map sheet 132 Trofaiach) the thickness of the entire volcanogenic sequences is between 180 and 550 m. There, the volcaniclastics include also intercalations of schists and up to 150 m thick lavas (SCHLAEDEL-BLAUT, 1990).

**Lithostratigraphically higher rank unit:** -

**Lithostratigraphic subdivision:** -

**Underlying unit(s):** Lydites, Arkoses, Schists.

**Overlying unit(s):** Crinoidal Limestones (SCHÖNLAUB, 1992) (not shown in ASC 2004).

**Lateral unit(s):** Lydites, Arkoses, Schists.

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

**Remarks:** Informal working term for thick basic volcanics (first description HIESSLEITNER, 1931) in the hanging parts of the "Lydites, Arkoses, Schists".

**Complementary references:** TOLLMANN (1977), SCHÖNLAUB (1979, 1980a), SCHÖNLAUB & HEINISCH (1993), LOESCHKE & HEINISCH (1993).

## Crinoidenkalke / Crinoidal Limestone

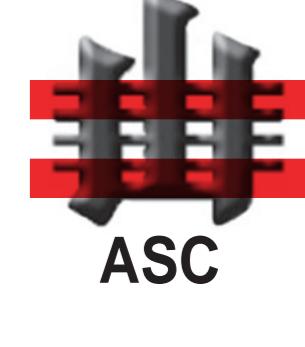
(not shown in ASC 2004)

FRITZ EBNER

**Validity:** Invalid; working term (SCHÖNLAUB, 1976, 1979, 1982a).

# Austrian Stratigraphic Chart 2004 - Paleozoic

## (sedimentary successions)



# Austrian Stratigraphic Commission

