

Creta di Collina Formation

CLAUDIA SPALLETTA, ADRIANO FERRARI, ERIKA KIDO, MARIA CRISTINA PERRI, SUSANNE M.L. POHLER,
MONICA PONDRELLI, HANS PETER SCHÖNLAUB, THOMAS J. SUTTNER & GIAN BATTISTA VAI

Österreichische Karte 1:50.000
Blatt BMN 197 Kötschach

Carta Topografica d'Italia 1:50.000
Foglio 018 Passo di Monte Croce Carnico
Foglio 031 Ampezzo

Blatt UTM 3109 Oberdrauburg

Definition

Dark gray brachiopod-rich (rhynchonellids) limestone intercalated with lithoclastic layers (FERRARI & VAI, 1973; KREUTZER, 1990, 1992).

Description

The Creta di Collina Formation consists of different interbedded facies. The stratotype section is composed of brachiopod-crinoidal calcarenite and calcilitite (mainly packstone, biopelsparite) with some breccias layers (rudite), brachiopod coquinite with calcilitite (packstone) intercalations, and brachiopod crinoidal calcilitite. At Porto di Cozzi the main units are dark gray calcarenite to calcilitite with scattered brachiopods and crinoid fragments (packstone), brachiopod coquinite, and brachiopod-crinoidal calcarenite (mainly packstone).

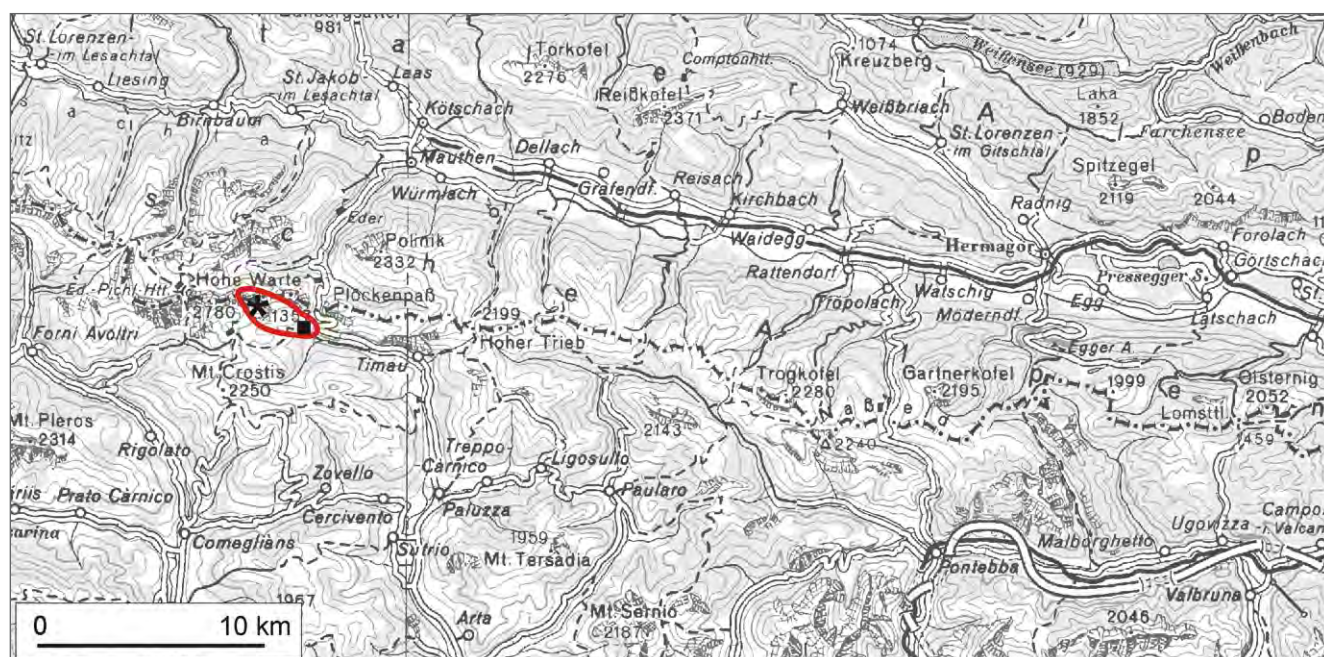
Fossil content

Brachiopods, cephalopods, conodonts, echinoderms, ostracods, spicules of sponges.

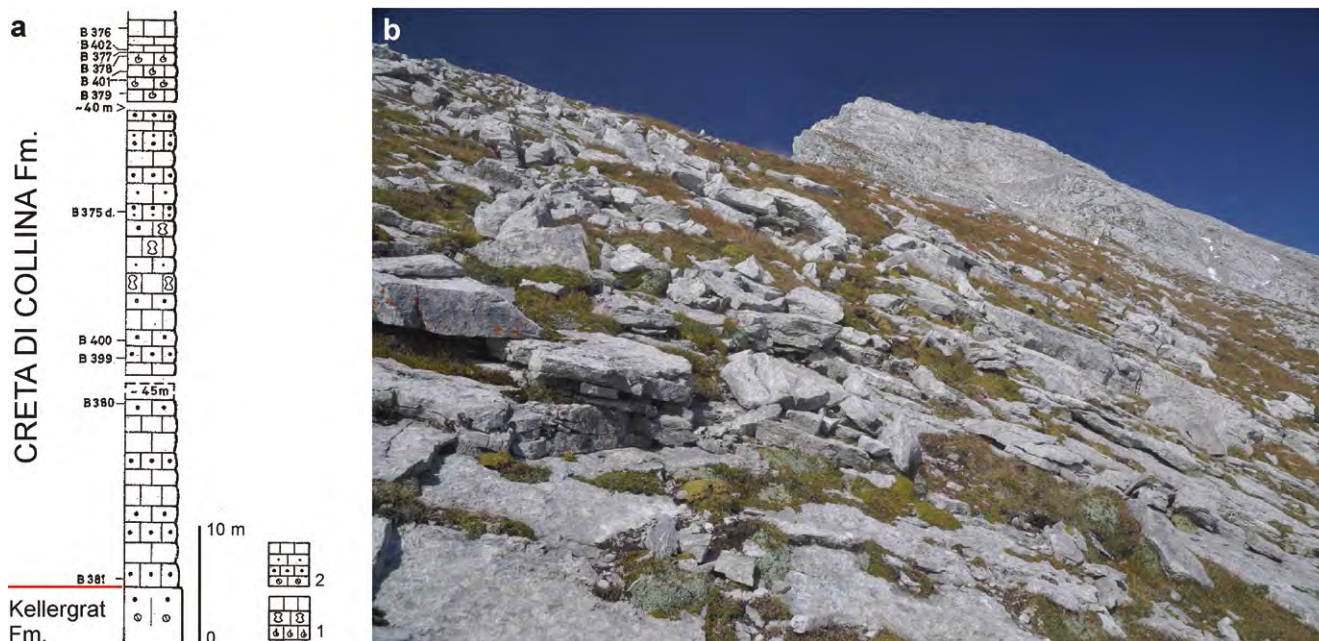
Reworked: *Amphipora* fragments, foraminifers, tabulate corals.

Depositional environment

The Creta di Collina Formation was deposited in a relatively shallow environment of an outer ramp and basin, periodically supplied by gravity-driven re-sedimented deposits.



Area of outcrop of the Creta di Collina Formation with indication of the stratotype (asterisk) and reference section (square).



The Pizzo Collina Section. a) log of the section (modified after FERRARI & VAI, 1973) 1. Coquinite, intraclastic breccia; 2. calcirudite, calcarenite, calcisiltite, calcilutite; b) view of the section in field (photo H.P. SCHÖNLAUB).

Stratotype

Pizzo Collina Section (FERRARI & VAI, 1973), located along the crest defining the oriental side of Creta di Collina, at coordinates N 46°36'21.8", E 12°54'43.5".

Reference sections

Porto di Cozzi Quarry section (FERRARI & VAI, 1973), south of Plöckenpass/Passo di Monte Croce Carnico at coordinates N 46°35'32.2", E 12°56'25.5", where the lithology is slightly different than the type section in an easily accessible outcrop.

Type area

Central Carnic Alps.

Main outcrop areas

The Creta di Collina Formation crops out in the Central Carnic Alps on the southern side of the Creta di Collina/Kollinkofel.

Thickness

About 40 m.

Boundaries

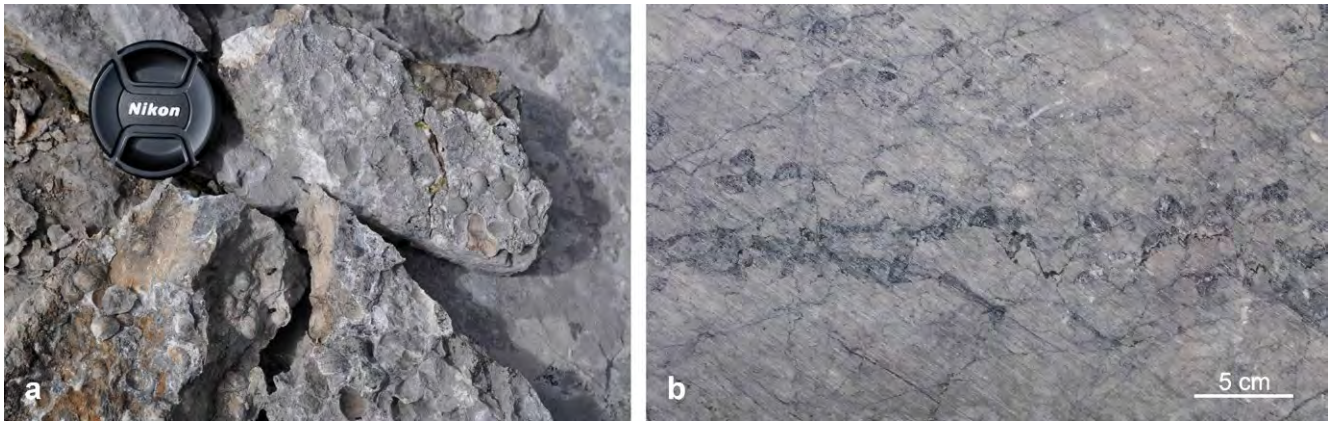
Underlying units – Kellergrat Formation (conformable, sharp contact).

Overlying units – Pal Grande Formation (conformable, sharp contact).

Lateral units – Freikofel Formation, Pal Grande Formation.

Derivation of name

After Creta di Collina (Mt. Kollinkofel).



Views of the Creta di Collina Formation in the field. a) brachiopod coquinite at Creta di Collina (photo H.P. SCHÖNLAUB); b) dark gray calcilutite with brachiopod at Porto di Cozzi Quarry (photo H.P. SCHÖNLAUB).

Synonymy

Unteres Oberdevon am Kollinkofel: FRECH (1887).
 Calcari a Brachiopodi: VAI in BRAGA et al. (1971).
 Formazione del Pizzo Collina: FERRARI & VAI (1973).
 Formazione del Collina: SPALLETTA et al. (1982).
 Philipsastrea/Brachiop.-K.: SCHÖNLAUB (1985).
 Collina Formation: SPALLETTA & VENTURINI (1990).
 Dunkle Rhynchonellenkalke: KREUTZER (1992).
 Calciruditi del Freikofel [partim]: SPALLETTA & PONDRELLI (2009).
 Kollinkofel-Kalk/Kollinkofel Limestone: SUTTNER (2014).

Chronostratigraphic age

Devonian: Upper part of Frasnian to Famennian.

Biostratigraphy

Conodonts. – Frasnian Zone 12 (upper part of Lower *rhenana* Zone–lower part of Upper *rhenana* Zone) to Upper *marginifera* Zone (PERRI & SPALLETTA, 1998).

Complementary references -

Remarks -

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