

Plotta Formation

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Österreichische Karte 1:50.000

Blatt BMN 197 Kötschach

Blatt BMN 198 Weißbriach

Blatt UTM 3109 Oberdrauburg

Blatt UTM 3110 Kötschach-Mauthen

Blatt UTM 3116 Sonnenalpe Naßfeld

Carta Topografica d'Italia 1:50.000

Foglio 018 Passo di Monte Croce Carnico

Foglio 031 Ampezzo

Foglio 032 Tolmezzo

Definition

Discontinuous silcrete layers (hard grounds), weakly bedded breccia or massive and laminated chert at places enriched in mineralization of Cu and Pb.

Description

The Plotta Formation is mainly composed of white, grayish or blackish porous chert. Locally, at its base, a thin breccia layer is developed. It is composed of small subrounded limestone clasts, angular relict chert fragments and dark siliceous crust.

Fossil content

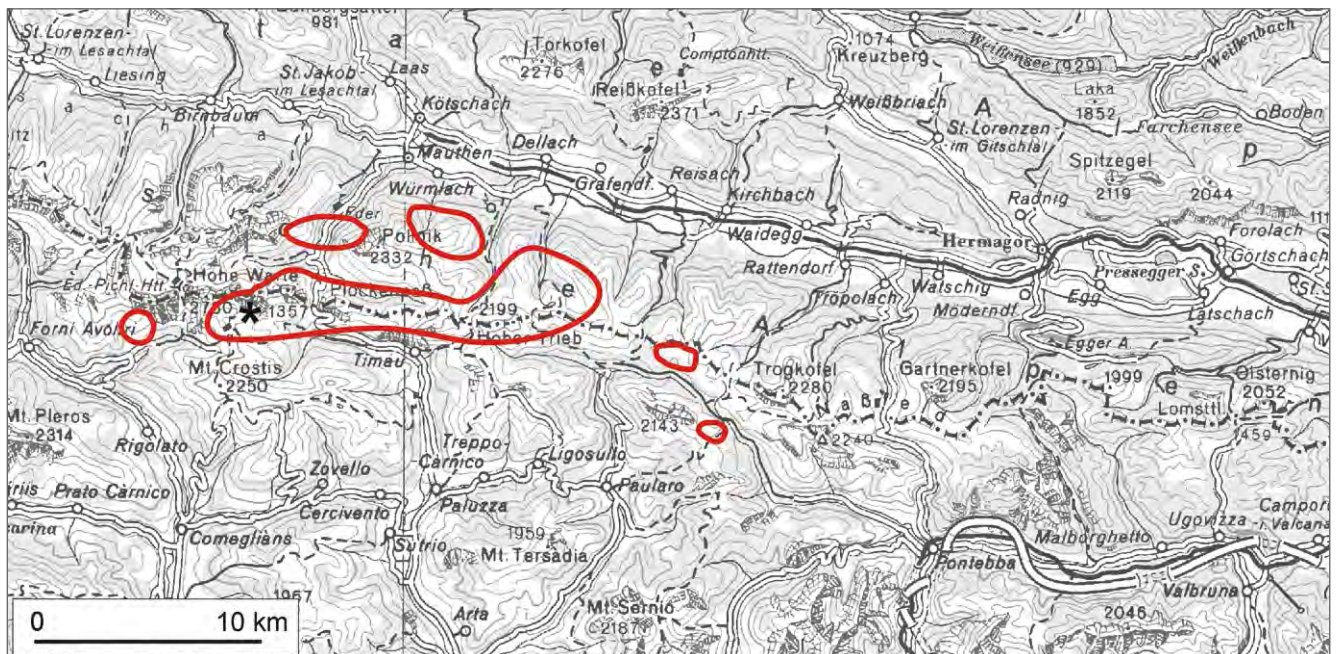
No autochthonous fossil content, mixed conodont faunas of various ages, goniatites and trilobites from the underlying limestone are present.

Depositional environment

Paleokarstic environment due to subaerial exposure; hard grounds?

Stratotype

Cima Plotta Section (SCHÖNLAUB et al., 1991), at coordinates N 46°35'40.57", E 12°54'26.37".



Areas of outcrop of the Plotta Formation with indication of the stratotype (asterisk).



The Plotta Section. a) log of the section (modified after SCHÖNLAUB & KREUTZER, 1993); b) view of the section in the field (photo H.P. SCHÖNLAUB).

Reference sections -

Type area

Central Carnic Alps.

Main outcrop areas

The Plotta Formation crops out mainly in the Rifugio Marinelli area; scattered, patchy outcrops are found in several localities between Monte Croce Carnico/Plöcken Pass and Mt. Pal Grande/Grosser Pal, and in the Mt. Zermula area to the east.

Thickness

Very variable, from a few centimetres to a maximum of 7 m.

Boundaries

Underlying units – Polinik Formation, Kellergrat Formation, Pal Grande Formation (unconformable contacts).

Overlying units – Hochwipfel Formation (unconformable contact).

Lateral units – Pal Grande Formation.

Derivation of name

After Cima Plotta.

Synonymy

Lydite: SCHÖNLAUB (1980).

Plotta Formation: SCHÖNLAUB et al. (1991).

Radiolarian chert: VENTURINI & SPALLETTA (1998).

Plotta Lydite: SCHÖNLAUB et al. (2004).

Plotta-Lydit/Plotta Lydite: SUTTNER (2014).



Views of the Plotta Formation in the field. a) in the Rifugio Marinelli area (photo C. SPALLETTA); b) at Pal Grande (photo M. PONDRELLI); c) near Casera Pal Grande di Sotto (photo M. PONDRELLI).

Chronostratigraphic age

(?) Devonian – (?) Carboniferous: (?) topmost Famennian to (?) Tournaisian (SCHÖNLAUB & KREUTZER, 1993).

Biostratigraphy -

Complementary references -

Remarks -

References

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