

Valbertad Formation

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Österreichische Karte 1:50.000
Blatt BMN 197 Kötschach
Blatt BMN 198 Weißbriach
Blatt BMN 199 Hermagor

Carta Topografica d'Italia 1:50.000
Foglio 018 Passo di Monte Croce Carnico
Foglio 031 Ampezzo
Foglio 032 Tolmezzo
Foglio 033 Tarvisio

Blatt UTM 3109 Oberdrauburg
Blatt UTM 3110 Kötschach-Mauthen
Blatt UTM 3116 Sonnenalpe Naßfeld
Blatt UTM 3117 Nötsch im Gailtal

Definition

Grayish, brownish and greenish siltstones to arenaceous shales and rare fine-grained graywackes and sandstones.

Description

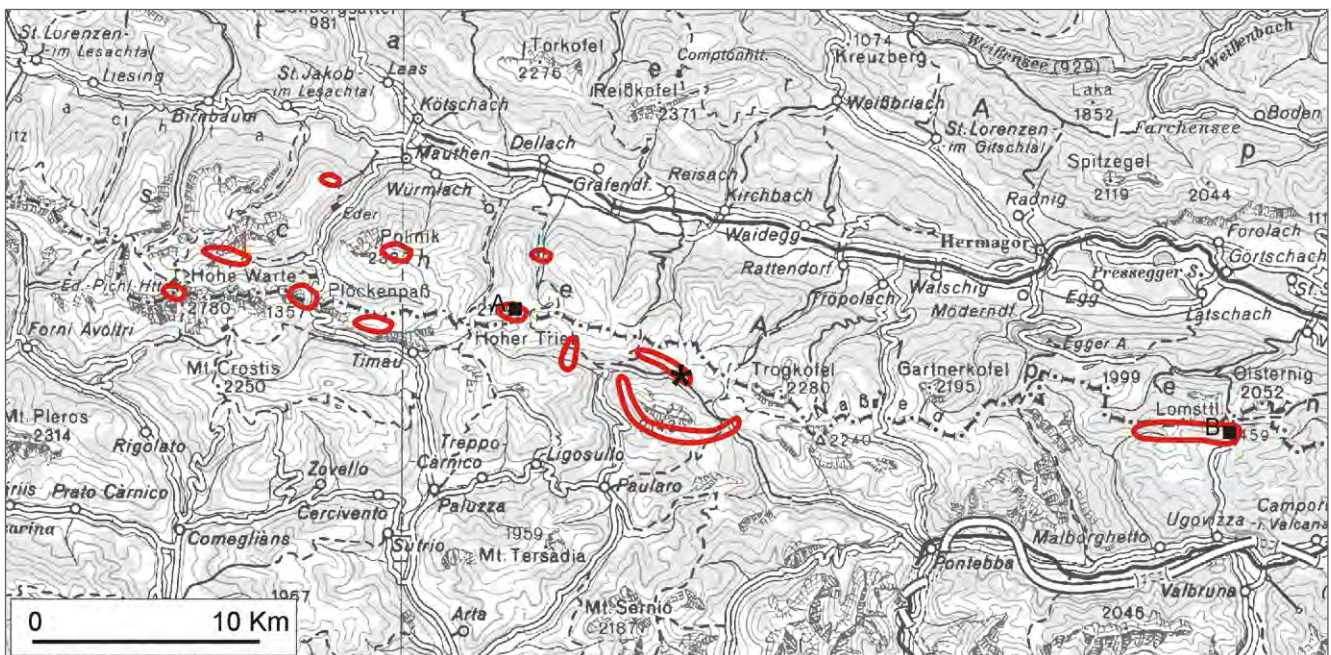
The Valbertad Formation consists of thin to very thin-bedded grayish, brownish and greenish siltstones to arenaceous shales. Some horizons show indistinct bedding and are more compact resembling fine-grained graywackes and sandstones. Fossils, abundant in some levels, are more or less de-calcified. In the upper part of the unit, the shales are increasingly interbedded with thin to very thin nodules of gray mud- and wackestone.

Fossil content

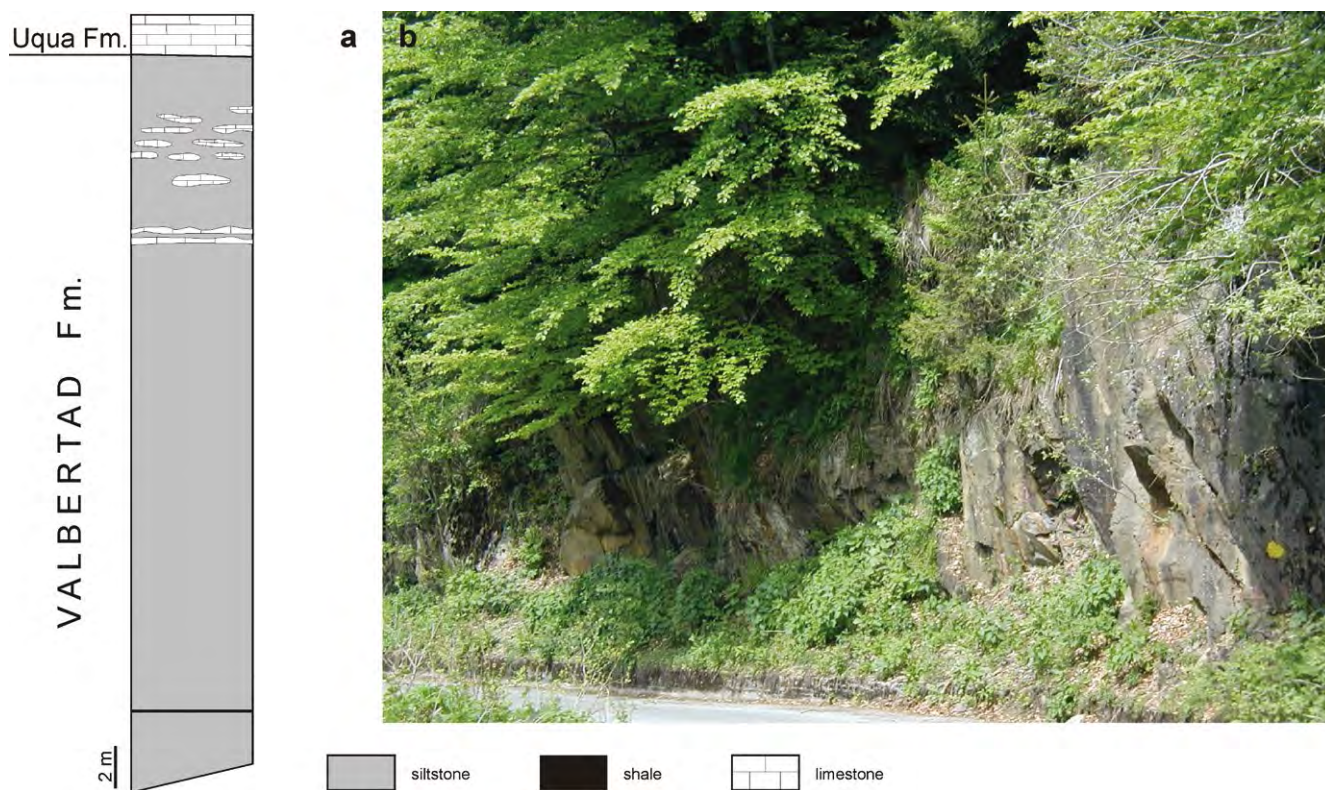
Acritarchs, brachiopods, bryozoans, cephalopods (nautiloids), cystoids, gastropods, hyoliths, tentaculites, trilobites.

Depositional environment

Moderately deep marine environment.



Areas of outcrop of the Valbertad Formation with indication of the stratotype (asterisk) and reference sections (squares). A: Hoher Trieb Section; B: Rifugio Nordio Section.



The Valbertad Section. a) log of the section (redrawn after BAGNOLI et al., 1998); b) view of the section (photo L. SIMONETTO).

Stratotype

Valbertad Section (BAGNOLI et al., 1998; CORRADINI et al., 2012) along the road from Paularo to Passo di Lanza at coordinates N 46°34'31.6", E 13°08'38.6".

Reference sections

Uqua Creek Section, near Rifugio Nordio (VAI, 1971) north of Ugovizza at coordinates N 46°36'32", E 13°29'03", an important historical section.

Hoher Trieb Section (SCHÖNLAUB, 1969, 1971; JAEGER et al., 1975; HAVLICEK et al., 1987), north of Mt. Hoher Trieb/Cuestalta at coordinates N 46°36'02", E 13°03'10", particularly rich in fossils.

Type area

Carnic Alps.

Main outcrop areas

Northern part of Mt. Cellon (Cellonalm), Hoher Trieb, Base of Mt. Seekopf, northern side of Rio di Lanza valley, Mt. Piz-zul, Mt. Zermula, Uqua Creek.

Thickness

15 m to more than 100 m.

Boundaries

Underlying units – Fleons Formation (conformable? contact) (SCHÖNLAUB & FLAJS, 1993).

Overlying units – Uqua Formation (conformable contact).

Lateral units – Himmelberg Formation, Fleons Formation.



Views of the Valbertad Formation in the field. a) the outcrop on the top of Mt. Pizzul (photo L. SIMONETTO); b) cystoid in the Valbertad Section (photo L. SIMONETTO).

Derivation of name

After Casera Valbertad.

Synonymy

Strophomena Horizont: STACHE (1884).
 Calcescisti, calcari saccaroidi ed argilloscisti di Mauthen [partim]: TARAMELLI (1895).
 Scisti Ordoviciani: GORTANI (1926).
 Scisti argilloso-ocracei con vene e noduli calcarei: GORTANI & DESIO (1927).
 Uggwaserie: GAERTNER (1931).
 Schiefer des Caradoc: HABERFELNER & HERITSCH (1932).
 Formazione di Ugva: SELLI (1963).
 Formazione di Uggwa: ASSERETO et al. (1968).
 Sandige Schiefer mit Bryozoen: SCHÖNLAUB (1969).
 Siltstones et Grès de L'Uqua: VAI (1971).
 Formazione dell'Uqua: BRAGA et al. (1971).
 Grünlichgraue Siltsteine der Stillwasser-Fazies: SCHÖNLAUB (1971).
 Greygreen siltstones: SCHÖNLAUB (1971).
 Sandig-pelitische Uggwafazies: SCHÖNLAUB (1979).
 Formazione di Uqua: VAI et al. (1984), VENTURINI (1990).
 Uggwa-Schiefer: SCHÖNLAUB (1985).
 Uggwa-Schiefer/Shale: SUTTNER et al. (2014).

Chronostratigraphic age

Ordovician: Katian, based on the brachiopod *Foliomena* Fauna (VAI, 1971; SCHÖNLAUB 1980; VAI & SPALLETTA, 1980; HAVLICEK et al., 1987; HARPER et al., 2009).

Biostratigraphy -

Complementary references -

Remarks

In the western Karavanke Alps the equivalents of the Valbertad Formation are exposed in the Feistritzgraben section (SCHÖNLAUB, 1979, 1982, 1985).

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