

The Pre-Variscan sequence of the Carnic Alps (Austria and Italy) - Results and highlights

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The Pre-Variscan sequence of the Carnic Alps includes rocks deposited between the Middle Ordovician and the early Late Carboniferous, and represents one of the most continuous sequence of the world in that time interval. In a relatively small area it is possible to distinguish rocks deposited at various latitudes and climate (from cold in the Ordovician to tropical in the Devonian), and in different sedimentary environments (from shallow water, including reef deposition, to basin). Despite the huge number of papers published on this sequence, a formal lithostratigraphic scheme does not exist and the units are indicated with informal names, often different in various papers. Because the region crosses the state border between Italy and Austria, different terminologies have been adopted on both sides of the mountain chain.

A joint research project was carried out from 2008 to 2015 with the goal to redefine the lithostratigraphy of the Pre-Variscan sequence of the Carnic Alps. More than thirty researchers from various European countries, mainly from Austria and Italy, were involved in four business meetings and three field workshops (Fig.1), and the (re)study of a huge amount of old and new data, in order to achieve a common but unified terminology.

As result the Pre-Variscan sequence of the Carnic Alps is now subdivided in 36 formations, lithologically well characterized, with well-defined boundaries and designated stratotypes.

Beside several papers in international journals, a volume on the revised lithostratigraphy (edited by Corradini & Suttner, 2015) was published. It includes an introduction to the geology of the Pre-

PARTICIPANTS	I	II	III	IV	V	VI	VII
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Thomas Suttner							
Gian Battista Vai							
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Total	8	9	14	13	10	11	5

Figure 1. Participants of Carnic Alps Workshops I-VII.

Colour code: orange = indoor; yellow = field workshop.

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Variscan sequence of the Carnic Alps and a short paper on each formation with general characterization and illustrations of the type section, formation boundaries and typical macrofacies.

Original Project title

Formal Lithostratigraphic Units in the Pre-Variscan Sequence of the Carnic Alps.

Project leaders, funding agency, duration

Corradini, C. and Suttner, T.J., research grants of the participants, 2008-2015.

Scientific background

The pre-Variscan sequence of the Carnic Alps is one of the most complete and better known in the world. Several workers investigated the area since the XIX century and produced a huge amount of papers dealing with different topics in geological sciences (geology, palaeontology, stratigraphy, structural geology, etc.).

However, the different parts of this sequence were mainly denominated with informal names, that derivate either from facies or historical terms. Furthermore, being the region across the state border between Italy and Austria, different terminologies have been adopted on both sides of the mountain chain, which result in different subdivisions of the sequence and a high number of names indicating similar -if not the same- lithological units. Also, in few cases, the same name was used to indicate different units. Moreover, almost none of these units was formalized according to the ICS (International Commission on Stratigraphy) rules.

The goal of the project was to achieve a common but unified terminology, subdividing the lithostratigraphic column of the Pre-Variscan sequence of the entire region into possible formal units, which are well defined according the ICS rules.

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