

Carnic Alps Workshop V

3-12th August 2011, Kötschach-Mauthen

FORMAL LITHOSTRATIGRAPHIC UNITS IN THE PRE-VARISCAN SEQUENCE OF THE CARNIC ALPS

Venue

The pre-Variscan sequence of the Carnic Alps is one of the better known in the world; several workers investigated the area from the XIX century, and published a huge amount of papers dealing with different topics in geological sciences (geology, palaeontology, stratigraphy, structural geology, etc.). The different parts of this sequence are 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 a high number of names indicating similar -if not the same- lithological units. Almost none has been formalized according to the ICS rules.

The aim of this workshop is to offer a platform for scientists working in the region to meet and compare the different stratigraphic schemes in use. The goal is to achieve a common but unified terminology, subdividing the lithostratigraphic column in possible formal units by well defined stratotypes and names of the pre-Variscan sequence of the entire region.

Contacts

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Highlights of the workshop held in Kötschach-Mauthen during 3rd-12th August 2011

Participants: Carlo Corradini, Anne-Christine Da Silva, Dodo Dojen, Erika Kido, Damien Pas, Monica Pondrelli, Hans Peter Schönlaub, Thomas Suttner

3rd August (We)

Arrival and joint dinner

4th and 5th August (Th-Fr)

Locality: Mount Freikofel (Damien Pas continued entire duration of workshop to sample the Upper Devonian part of the section for Magnetic Susceptibility)

Program: Both days were spent for discussing and sampling the Freikofel Lst and Pal Lst; On 5.8.2011 one part of the group continued to work at Freikofel, while Hans Peter Schönlaub, Carlo Corradini and Monica Pondrelli moved to Mount Hoher Trieb for seeing the Silurian sequence (e.g. *Cardiola* Lst).

6th and 7th August (Sa-Su)

Locality: Val di Collina and Marinelli Area (Carlo Corradini, Anne-Christine Da Silva, Erika Kido, Monica Pondrelli, Thomas Suttner)

Program: 6.8.2011 – Trail from Plöcken Pass to Marinelli Hut; discussion of Middle Devonian shallow marine platform sediments and Lower Carboniferous units (Marinelli Lst and Plotta Lydite); 7.8.2011 –see reef limestone and contact to Carboniferous (Val di Collina, Dolina section etc.).

8th and 10th August (Mo-Mi)

Locality: Lambertenghi and Wolayer Area (Carlo Corradini, Anne-Christine Da Silva, Erika Kido, Monica Pondrelli, Hans Peter Schönlaub, Thomas Suttner)

Program: 8.8.2011 – Trail from Marinelli Hut to Lambertenghi Hut; discussion of the neritic sequence along Carla-Maria and Spinotti trail (Lambertenghi Lst, Spinotti Lst, Amphipora Lst); Evening Program: Anne-Christine Da Silva gave presentation on Magnetic Susceptibility of Devonian sediments; 9.8.2011 – Seekopfsockel; discussion on the Late Ordovician, Silurian and Lower Devonian units. Sampling of the Silurian/Devonian boundary interval at RLF III (Rifugio Lambertenghi Fontana III) section for Magnetic Susceptibility (application of field and laboratory method); 10.8.2011 – First half of the day was used to finish the MS-sampling campaign of the RLF III and RLF sections. Later the group moved from Lambertenghi Hut to Valentinalm Hut and discussed the lateral continuity of the shallow to transitional facies from Mount Seewarte to Mount Cellon. Additionally the Upper Devonian-Lower Carboniferous pelagic sequence at Valentintörl was observed for distinctive lithological features that could be correlated to marker horizons of the transitional and neritic sequence (Findenig Lst, Valentin Lst, Pal Lst and Hochwipfel Fm).

11th August (Tu)

Locality: Mount Freikofel (Carlo Corradini, Anne-Christine Da Silva, Dodo Dojen, Erika Kido, Damien Pas, Monica Pondrelli, Thomas Suttner)

Program: Entire group moved to the middle-upper Devonian section of Mount Freikofel for final discussion with Damien Pas and sample transport from the outcrop down to Kötschach-Mauthen.



Upper Left: Discussion in front of Mount Freikofel (**Left to right:** Damien Pas, Monica Pondrelli, Erika Kido, Dodo Dojen, Anne-Christine Da Silva). **Lower Left:** View at Lake Wolayer (**Left to right:** Carlo Corradini, Monica Pondrelli, Anne-Christine Da Silva, Erika Kido, Thomas Suttner) **Right:** Walking up to the Lower Devonian units at Seekopfsockel (Hans Peter Schönlaub, Carlo Corradini, Monica Pondrelli, Anne-Christine Da Silva, Erika Kido)