



Palaeozoic sediments of the Czech Republic (A-I) and Austria (J-Q). Units of Austria are simplified after BRETT et al. (2009, in press). Czech units are modified after CHLUPÁČ & HLADIL (1994) and BRUTHANSOVÁ et al. (2007). Three Devonian localities are described from each country.

Austria

Stop 1: Baron von Kottwitz Quarry (S-Burgenland); Přídolí Series – Lochkovian Stage

Stop 2: Forest road Attems (Graz Palaeozoic); Emsian – Eifelian Stage

Stop 3: St. Pankrazen (Graz Palaeozoic); Emsian – Eifelian Stage

Czech Republic

Stop 1: Požáry Section (Barrandian); Přídolí Series – Lochkovian Stage

Stop 2: Červený Quarry (Barrandian); Emsian – Eifelian Stage

Stop 3: Jirásek Quarry (Barrandian); Emsian – Eifelian Stage

References:

- BRETT, C., FERRETTI, A., HISTON, K. & SCHÖNLAUB, H.P. (2009): Sequence Stratigraphy of the Silurian strata of the Carnic Alps, Austria. - PALEO3, [*in press*].
- BRUTHANSOVÁ, J., FATKA, O., BUDIL, P. & KRÁL, J. (2007): 230 Years of Trilobite Research in the Czech Republic. - New York State Museum Bulletin, 507: 51-79.
- CHLUPÁČ, I. & HLADIL, J. (1994): 10. Devon – Devonian. - In: KLOMÍNSKÝ, J. (Ed.): Geological atlas of the Czech Republic – Stratigraphy. Czech Geological Survey, Reprontronic Bohemia: 10.

Excursions Part 1: Austria

SUTTNER, T.J.¹ & HUBMANN, B.²

(1) Austrian Academy of Sciences (CPSA) c/o University of Graz, Institute of Earth Sciences (Geology and Palaeontology), Heinrichstrasse 26, A-8010 Graz, Austria; thomas.suttner@uni-graz.at

(2) University of Graz, Institute of Earth Sciences (Geology and Palaeontology), Heinrichstrasse 26, A-8010 Graz, Austria; bernhard.hubmann@uni-graz.at

A general overview of the stratigraphic sequence of Devonian units of the Eastern and Southern Alps of Austria is provided on the following two pages. It has been extracted from the Austrian Table produced by PILLER et al. (2004). The Eastern Alps include sequences of the W-Greywacke Zone (7 units), E-Greywacke Zone (10 units), Gurktal Nappe System (13 units), Graz Palaeozoic (23 units), Remschnigg/Sausal (5 units) and S-Burgenland (2 units). The Southern Alps include the Carnic Alps (24 units) and the S-Karawanken Mountains (10 units). Many of these formations are still informal and their names correspond either to lithofacies or to fossils dominating the single units.

Whereas the Southern Alps are deposited under marine conditions (neritic and pelagic limestones, pelagic siliciclastics), environments within the Eastern Alps are more diversified. They range from terrestrial-continental, fine-grained clastic sediments to marine limestones and pelagic siliciclastic deposits. Some units contain basaltic and volcano-clastic deposits which reflect a highly dynamic on-/ offshore system in active rifting zones.

The conodont biozones, the global mean sea-level as well as the evidence for global anoxic and biotic events during the Devonian is compiled in the second figure on page 53 (compare OGG et al. 2008). More than 15 events are documented so far; some of them correspond to black shale deposits, others to biotic mass-extinctions in the pelagic realms of various causes.

The following excursion points are chosen in relation to three events known from the Barrandian sequence. For a better comparison with the type area we concentrate on lower Lochkovian (S-Burgenland) and lower and upper Eifelian sections (Graz Palaeozoic).

References:

PILLER, W.E., EGGER, H., ERHART, C.W., GROSS, M., HARZHAUSER, M., HUBMANN, B., VAN HUSEN, D., KRENMAYR, H.-G., KRYSZYN, L., LEIN, R., LUKENEDER, A., MANDL, G.W., RÖGL, F., ROETZEL, R., RUPP, C., SCHNABEL, W., SCHÖNLAUB, H.P., SUMMESBERGER, H., WAGREICH, M & WESSELEY, G. (2004): Die stratigraphische Tabelle von Österreich 2004 (sedimentäre Folgen). - Kommission für die paläontologische und stratigraphische Erforschung Österreichs, Österreichische Akademie der Wissenschaften und Österreichische Stratigraphische Kommission, Wien.

OGG, J.G., OGG, G. & GRADSTEIN, F.M. (2008): The Concise Geologic Time Scale. – Cambridge University Press, New York: 1-177.

Abbreviations page 52: Dolomite & Shale from the Hochst. & Sulz = Dolomite and Shale from the Hochsteinmaißberg and near Sulz; Fm = Formation; H. Fm = Hackensteiner Formation; Lst = Limestone; M. Dolomite = Möbling Dolomite; Kö. Fm. = Kötschberg Formation; Parmas. Fm = Parmasegg Formation; Plab. Fm = Plabutsch Formation; Pranker Mcl = Pranker Metaclastics; Reef Debr. Lst Althofen = Reef Debris Limestone of Althofen; Schö. Fm = Schöckel Formation.

Abbreviations page 53: Fm = Formation; Lamb. Lst = Lambertenghi Limestone; Lst = Limestone; M.-U. B. S. = Middle and Upper Bischofalm Shale; N. Fm = Nöbling Formation.



