



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 BRUTHANOVÁ 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:

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- BRUTHANOVÁ, 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, Reprotronic Bohemia: 10.

Excursions Part 1: Austria

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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.

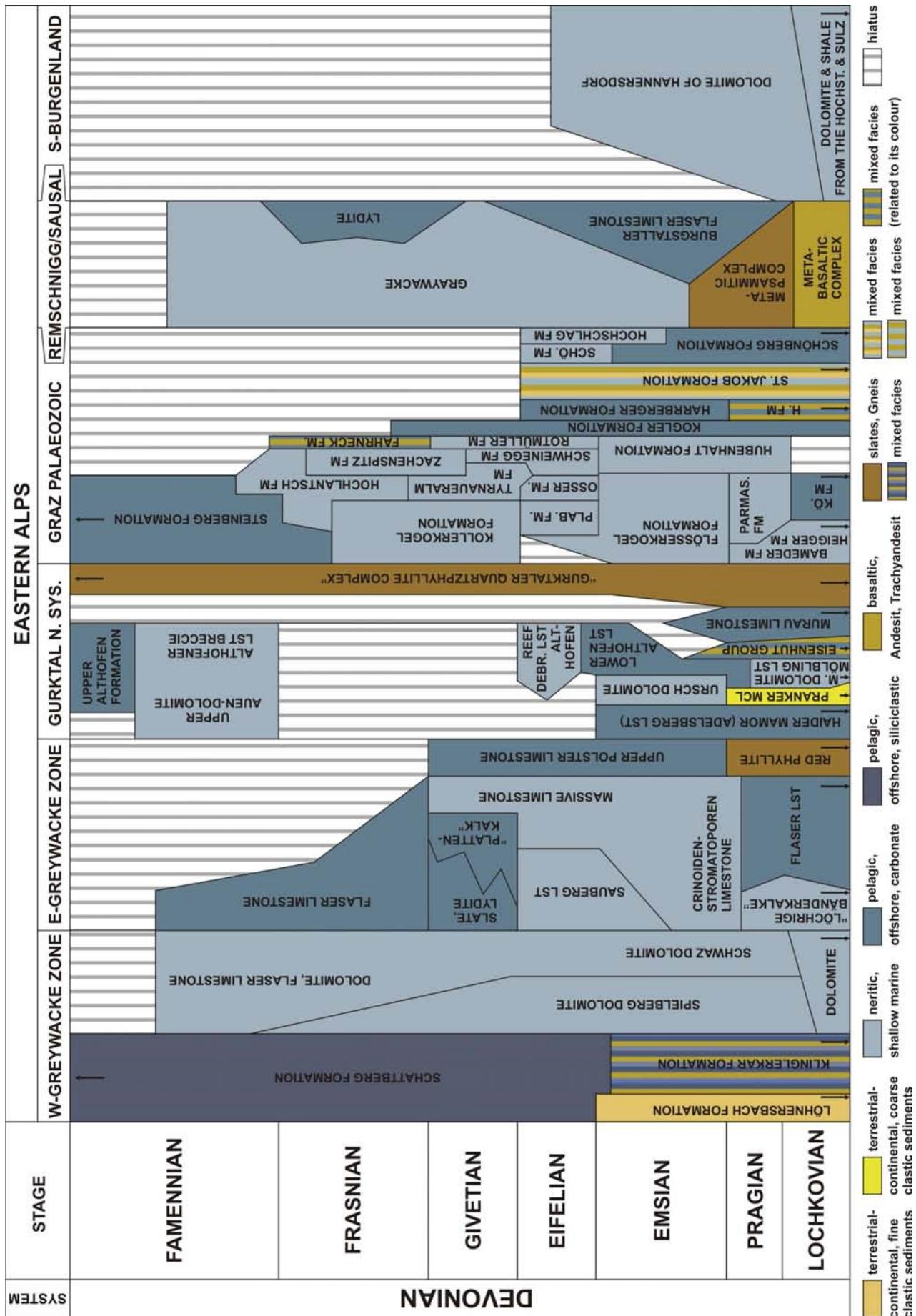
The following excursion points are chosen in relation to three events known from the Barrandian sequence. For a better comparison with the type area we concentrate on lower Lochkovian (S-Burgenland) and lower and upper Eifelian sections (Graz Palaeozoic).

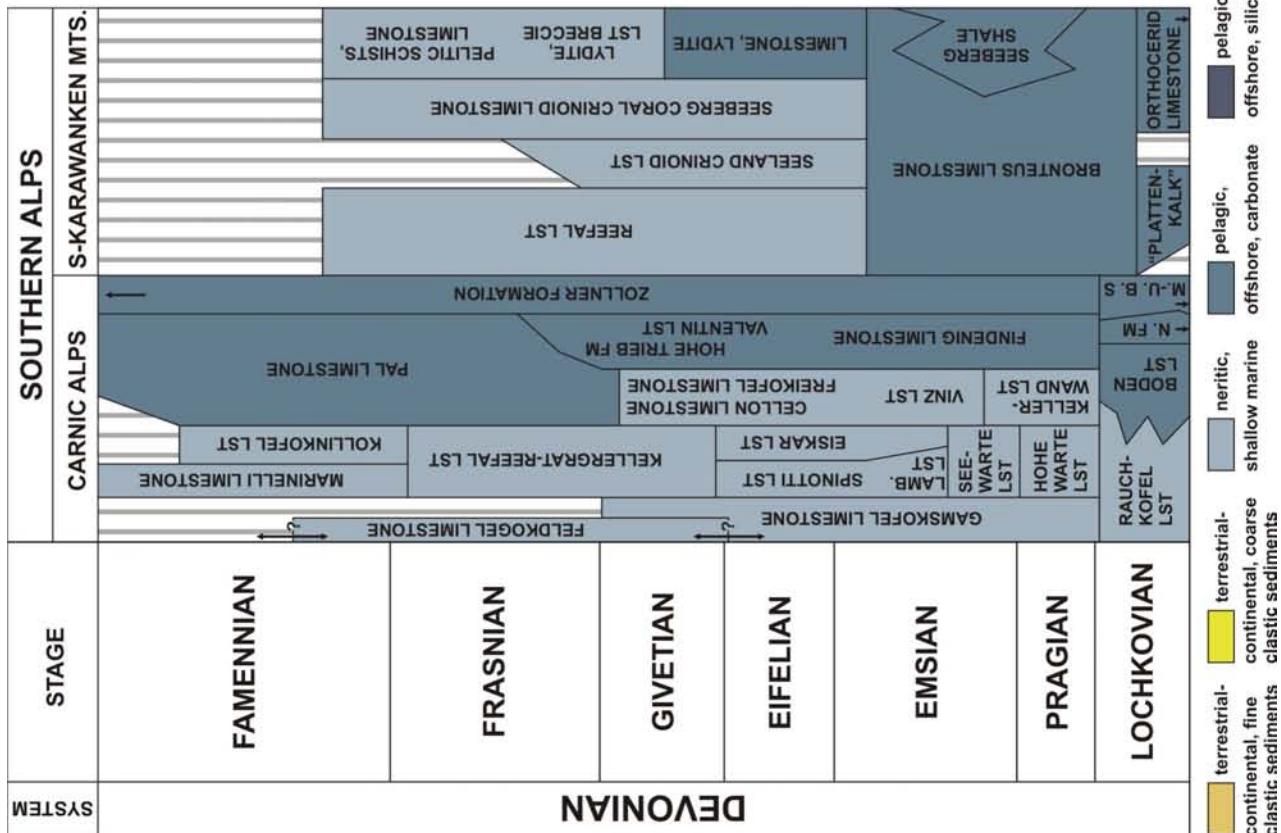
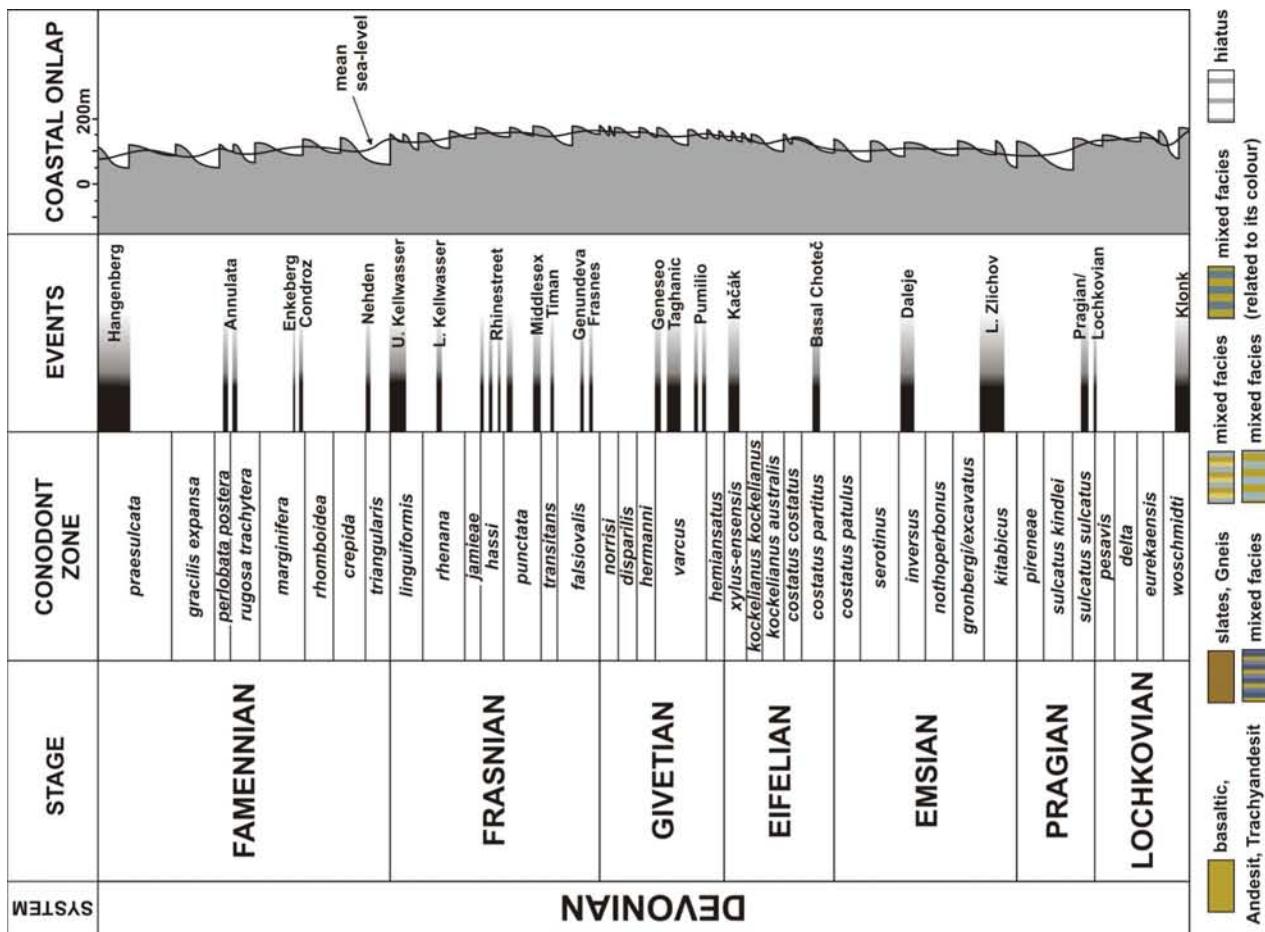
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- OGG, J.G., OGG, G. & GRADSTEIN, F.M. (2008): The Concise Geologic Time Scale. – Cambridge University Press, New York: 1-177.

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 = Mölbling Dolomite; Kö. Fm. = Kötschberg Formation; Parmas. Fm = Parmasegg Formation; Plab. Fm = Plabutsch Formation; Pranker McI = 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 = Nölbling Formation.





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