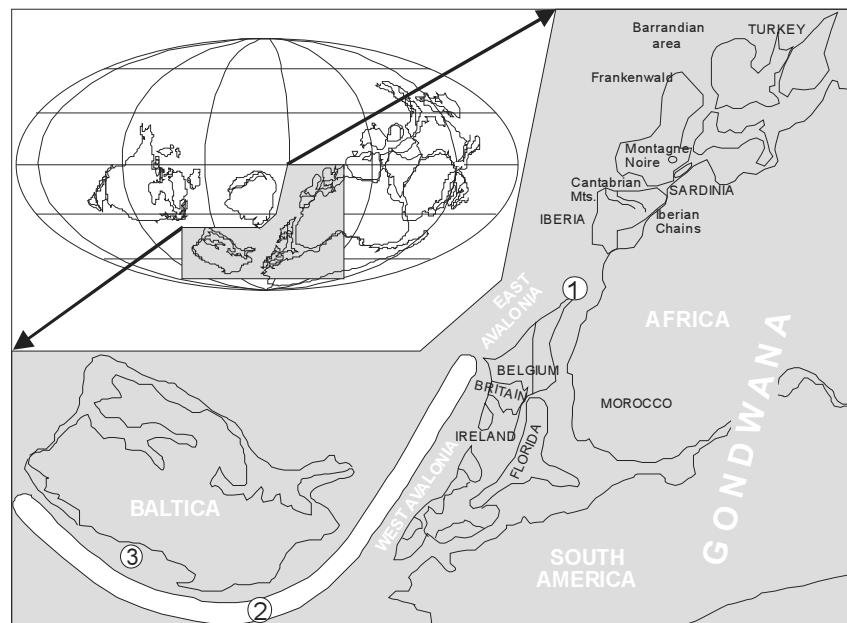


† Základní rozdělení Českého masívu na oblasti na území ČSSR a nomenklatura používaná dále v textu (orig.); 1 moravskoslezská oblast, 2 krušnohorská oblast, 3 lugická oblast, 4 středošeská oblast, 5 hlinská zóna středočeské oblasti, 6 kutnohorsko-svratecká oblast, 7 moldanubická oblast, 8 moravskoslezské zlomové pásmo, 9 jižní okraj lugické oblasti, 10 základní zlomy důležité pro vymezení oblastí, 11 hranice oblastí



Cambrian

Basal clastic Formation – originally regarded all as Devonian in age. Lower Cambrian acritarchs in Boreholes in SE Moravia Měnín, Němčičky). Shallow marine, hard to distinguish from Devonian – same provenance of clastic material.



Early Cambrian position of the Brunovistulian terrane

Ordovician

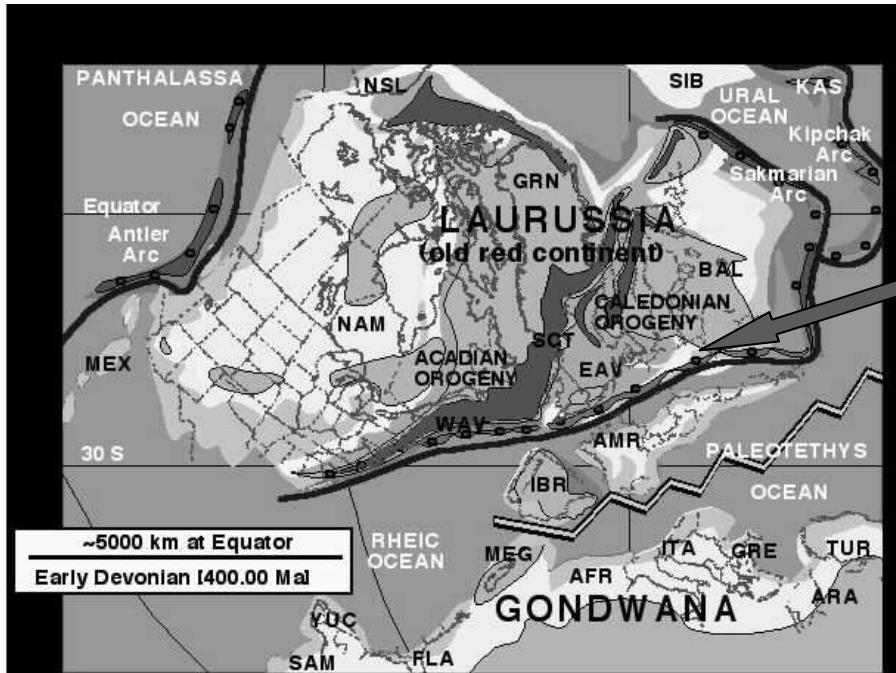
Rare occurrence in boreholes in the northern part of Brunovistulicum in Poland, not found in ČR

Silurian

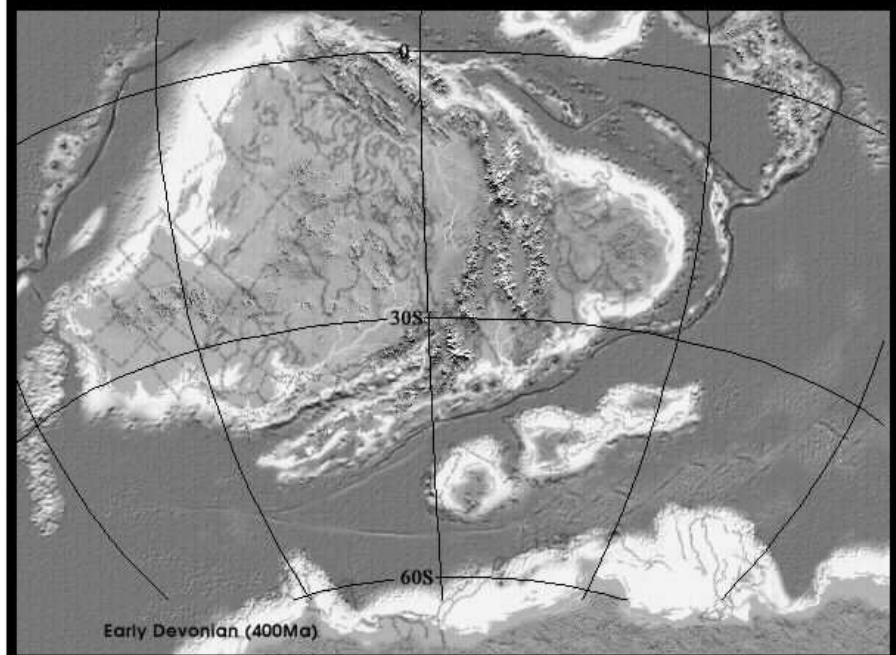
Only Stínava near Prostějov, grey shales with limestone intercalations, strongly tectonized between the Devonian and Culm sediments, Llandovery-přídolí. Graptolites. Problematic occurrences in crystalline units of Silesicum (Branna Group)

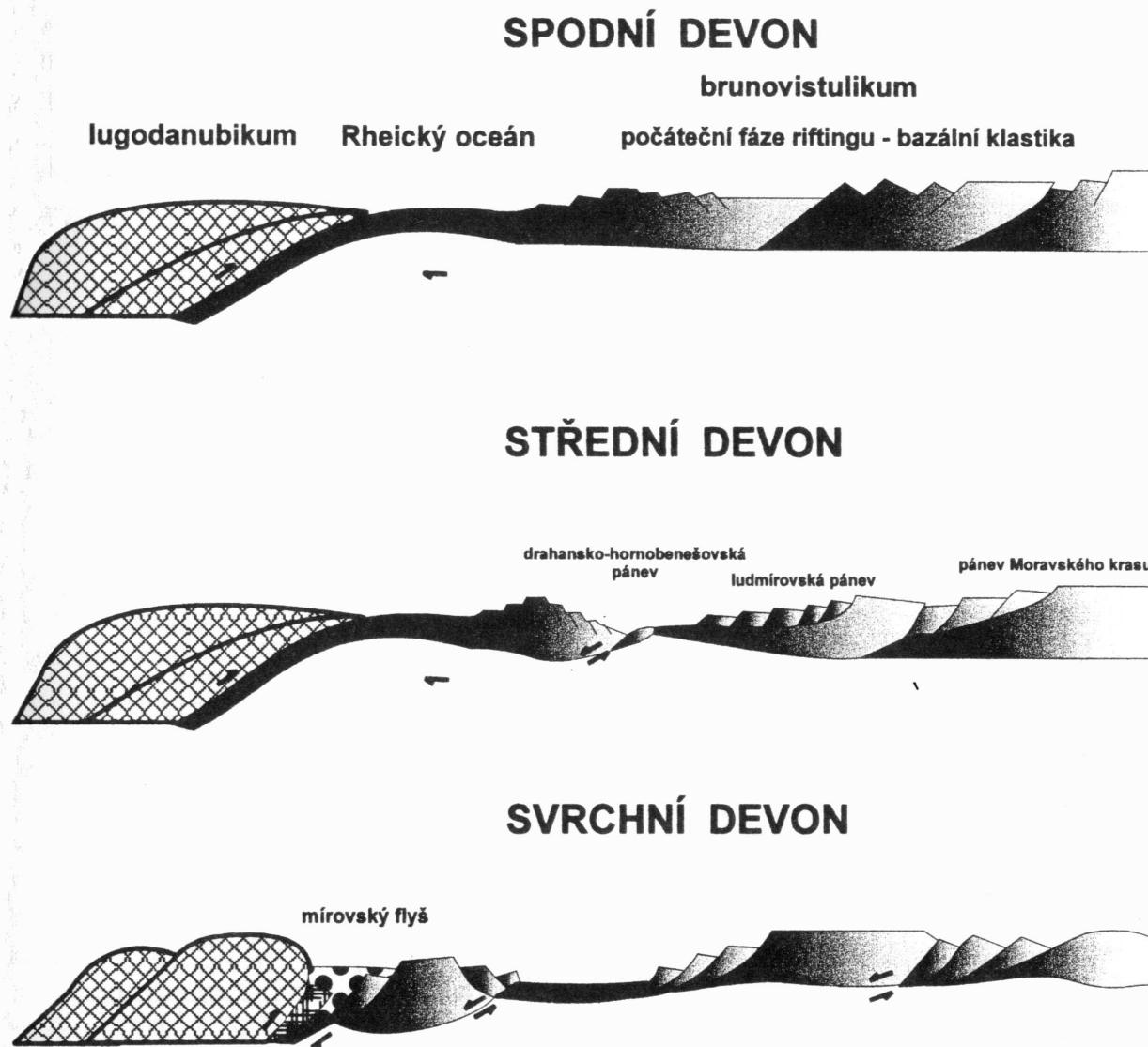
Devonian (preorogenic sedimentation)

Drahany development
Vrbno development
Ludmírov development
Moravian Karst development
Tišnov Development



Brunovistulian terrane

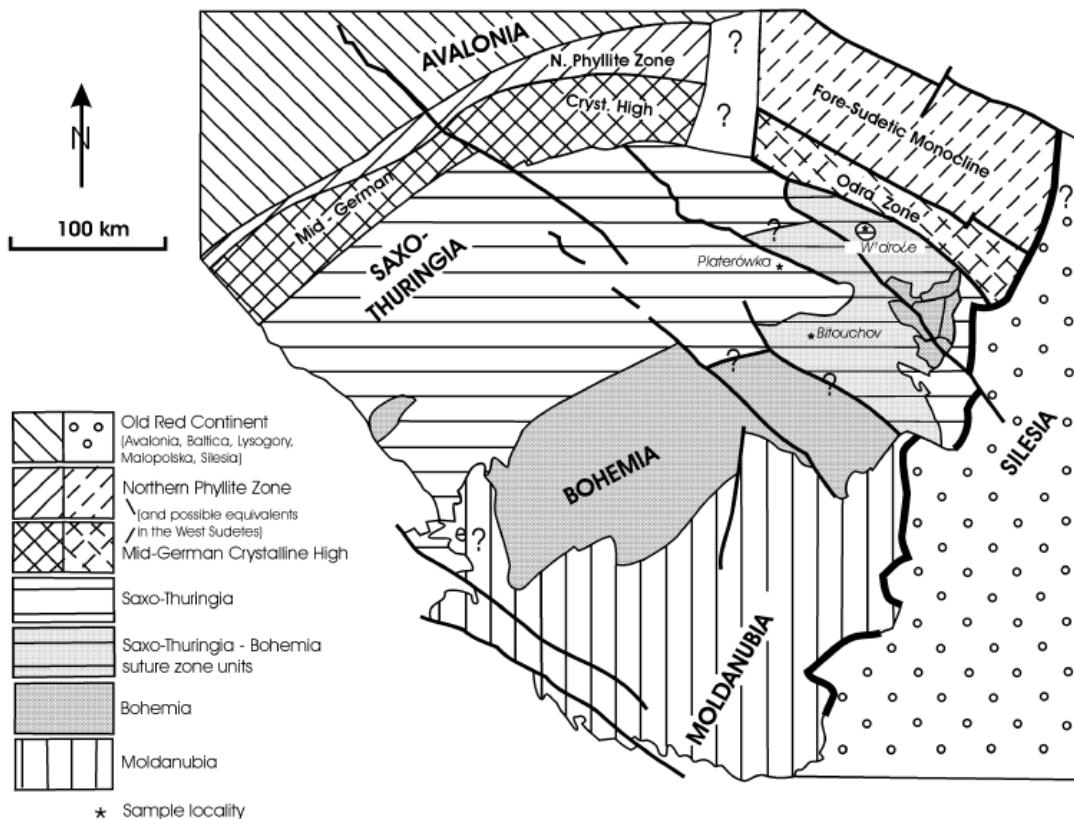


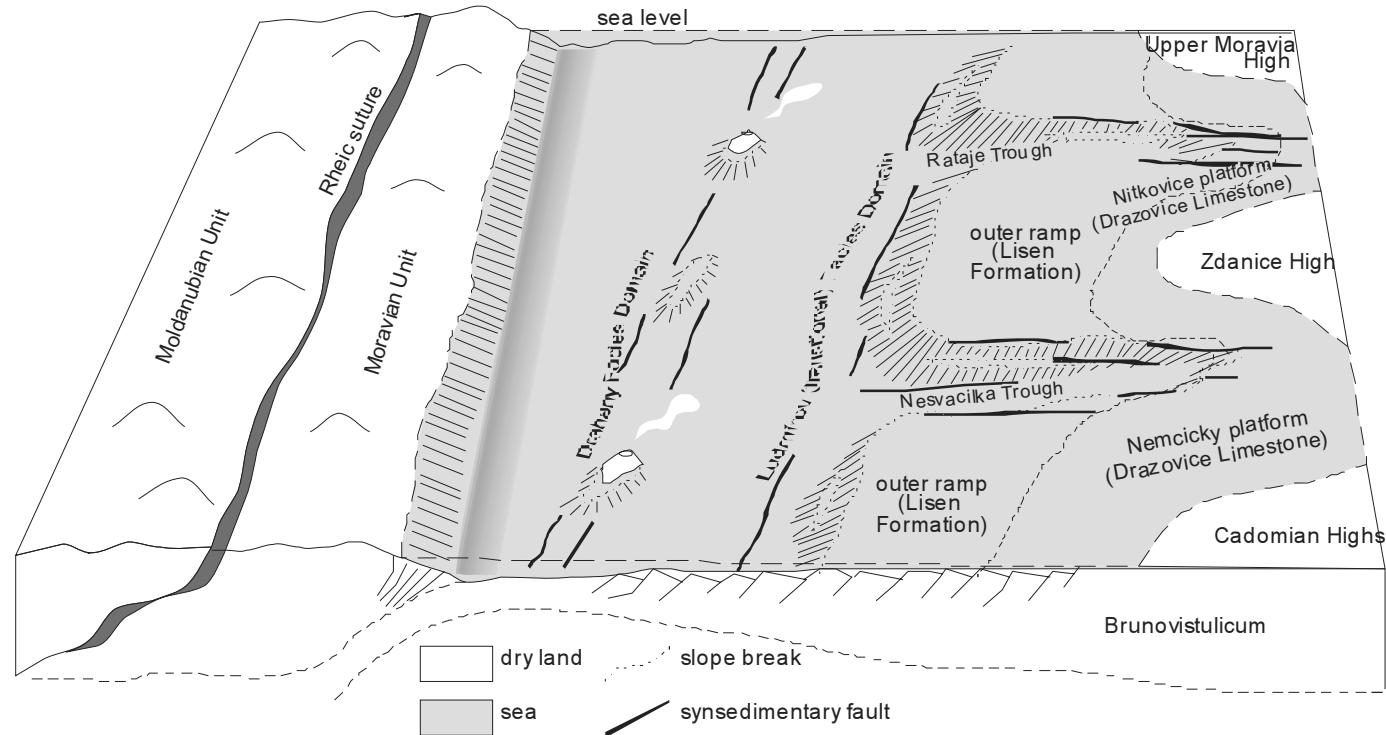


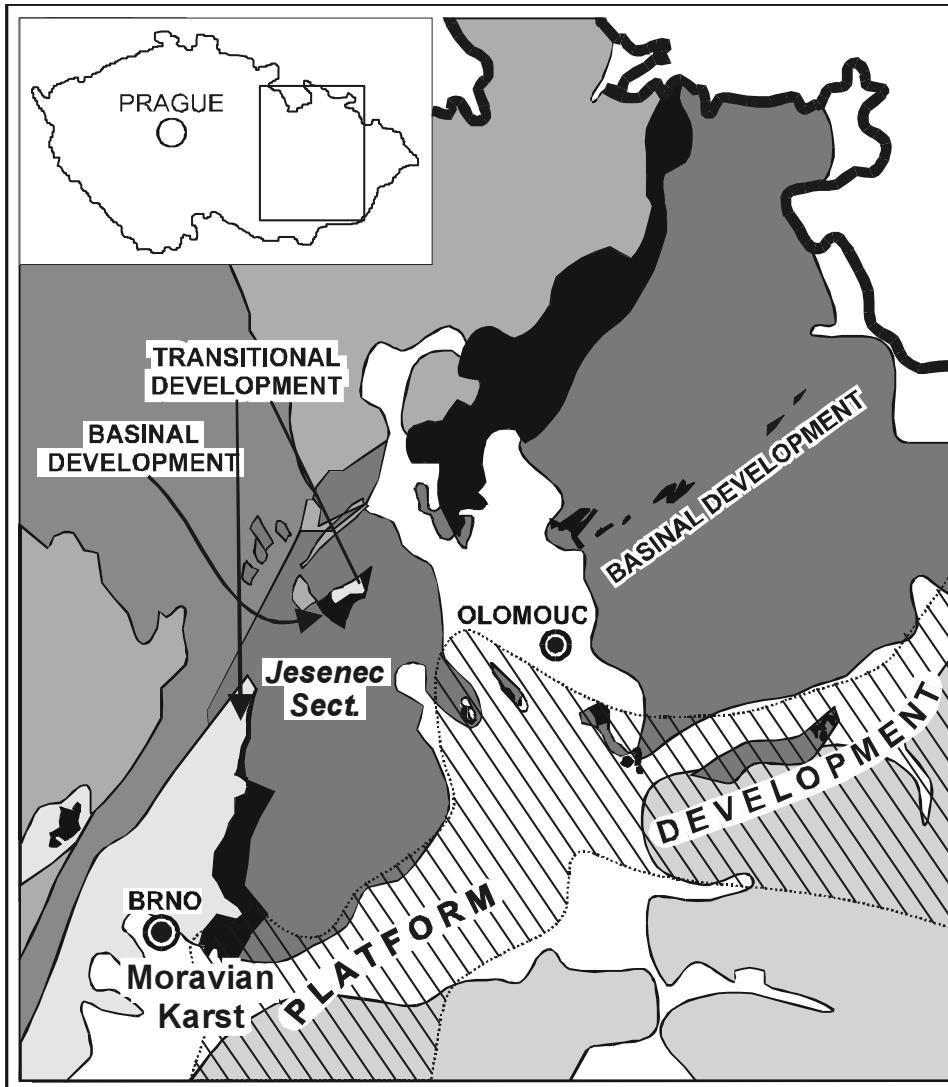
Obr. 47. Model vývoje devonských transtenzních pánev na brunovistulickém jižním okraji Laurusie.

několikařadovým břidlicem s polohami radiolaritů, místy i s uložkami kalciturbiditů. Největší rozšíření

Fig. 7 Schematic structural map of terranes in the Bohemian Massif

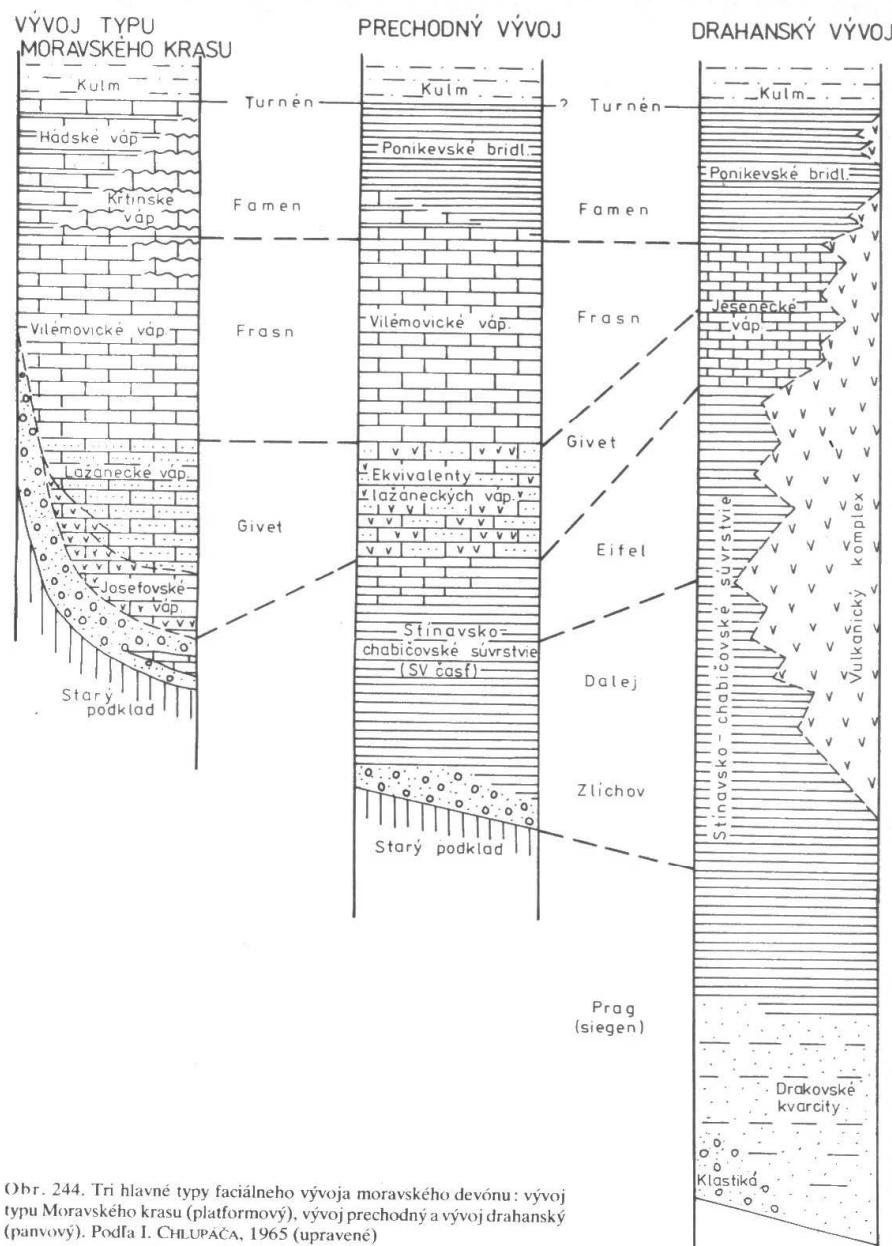




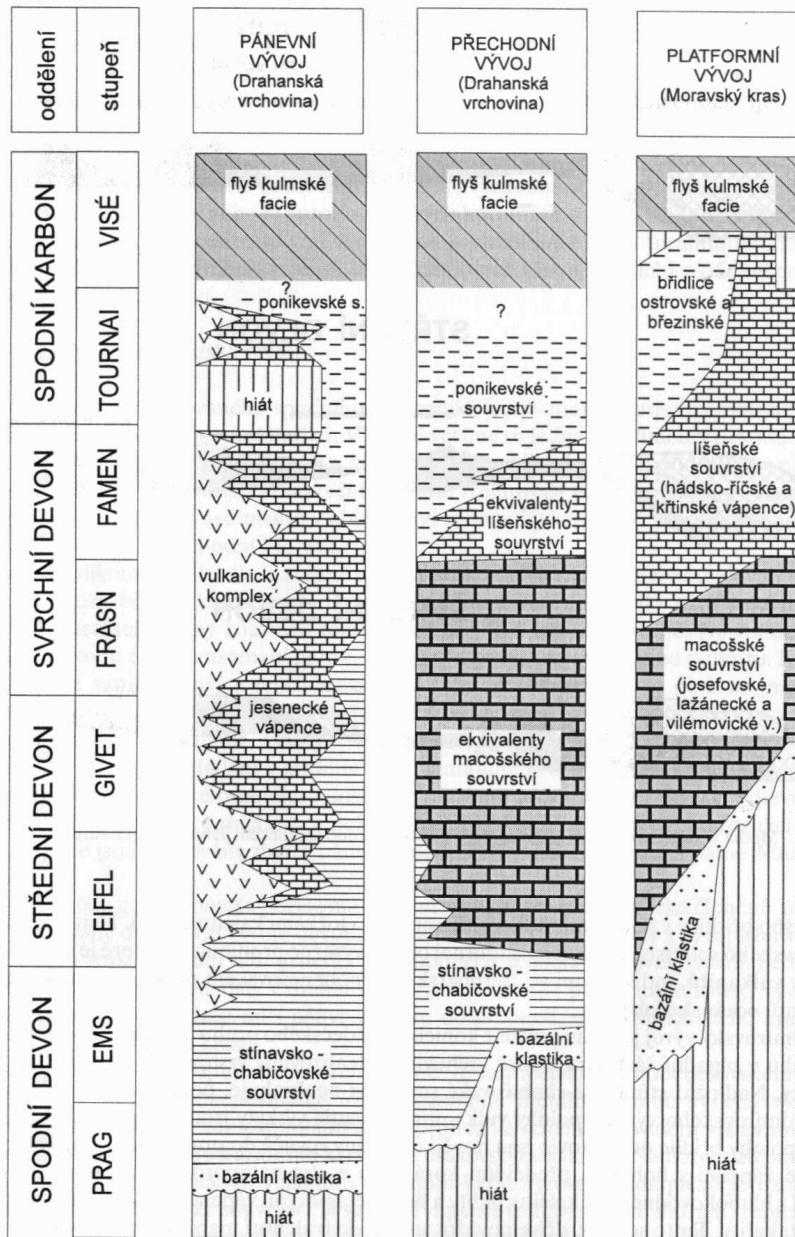


LEGEND:

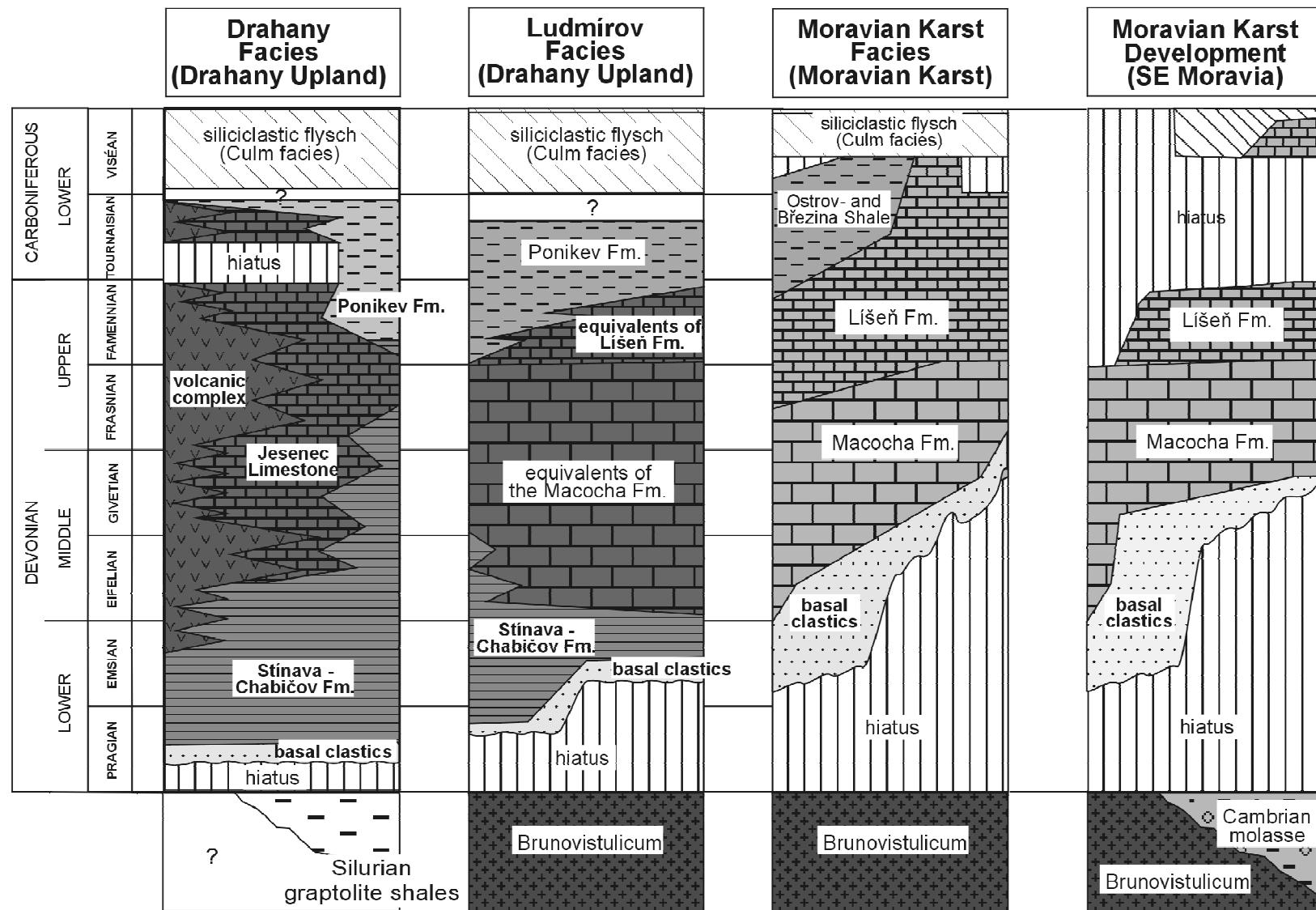
Brunovistulian terrane (Laurussian basement)	Western Carpathian flysch
Variscan crystalline rocks	Neogene - Quaternary cover
Devonian - Lower Carboniferous pre-flysch rocks	Hypothetical subsurface limit of Platform Development
Lower Carboniferous flysch (Culm facies)	① Section locations
Permian - Cretaceous sedimentary cover	○ Major city



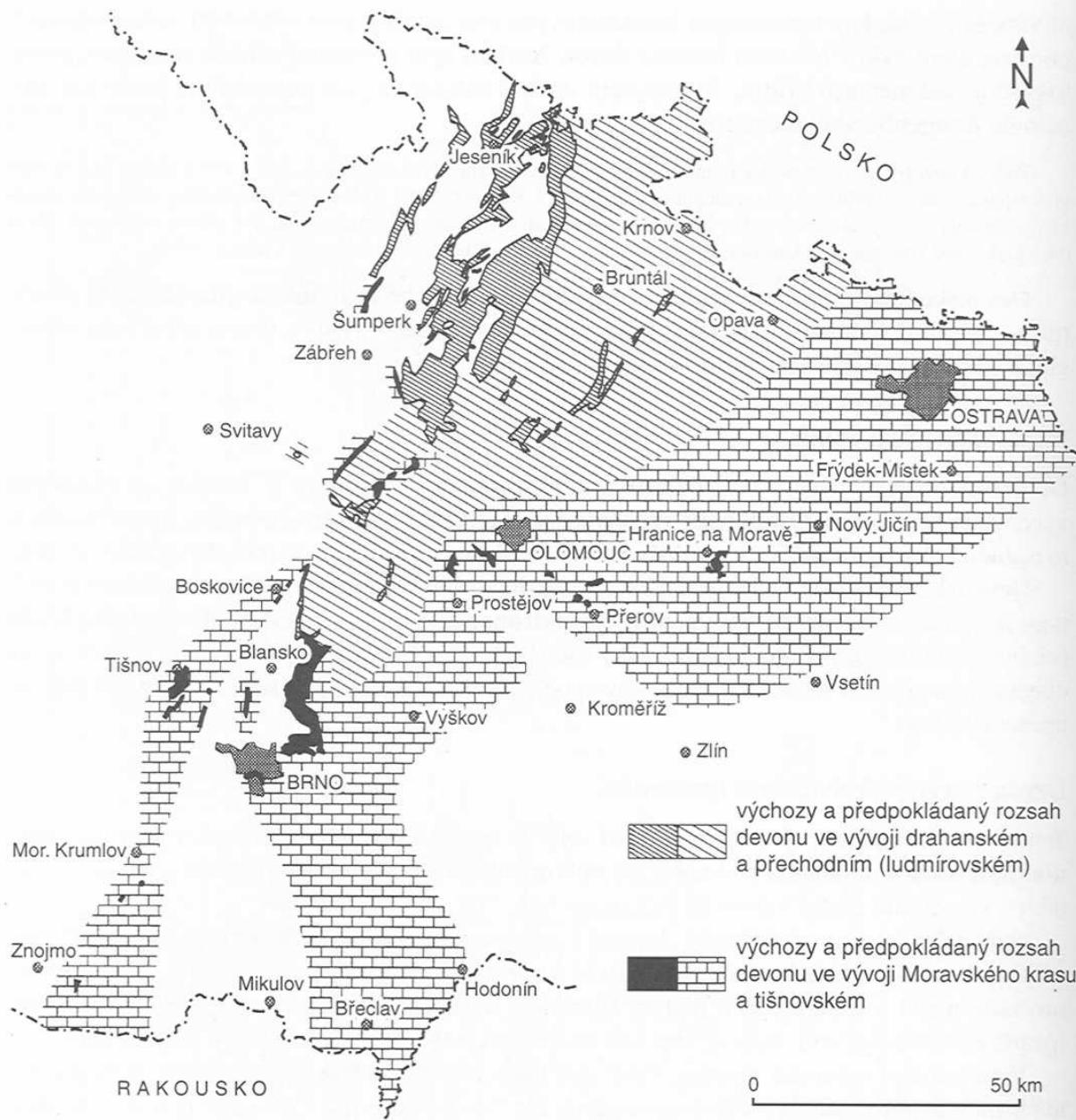
Obr. 244. Tri hlavné typy faciálneho vývoja moravského devónu: vývoj typu Moravského krasu (platformový), vývoj prechodný a vývoj drahanský (panový). Podľa I. CHLUPAČA, 1965 (upravené)



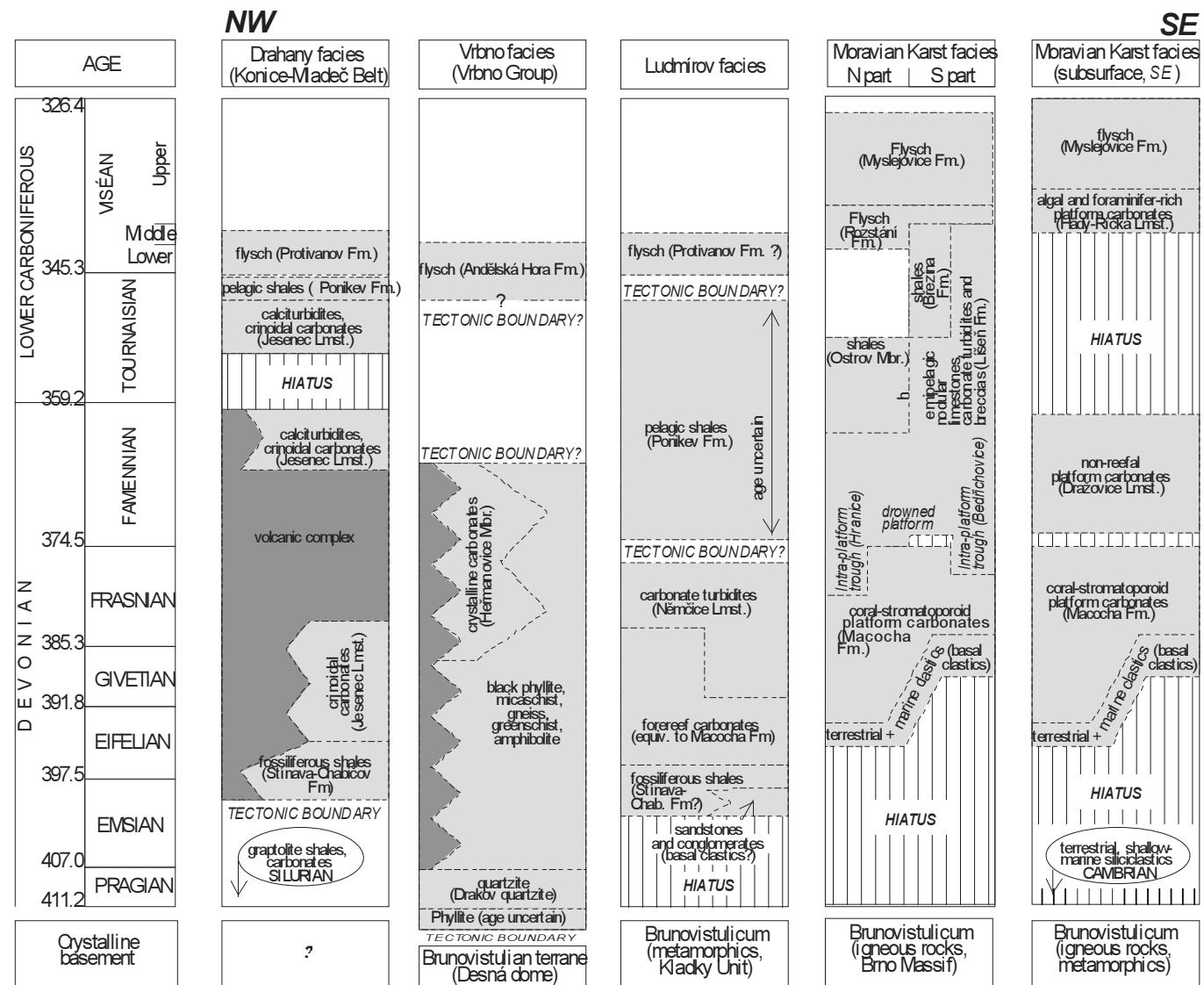
Obr. 48. Litostratigrafické členění předflyšových hornin moravskoslezské oblasti, upraveno podle různých pramenů.



Geologická minulost České republiky



Obr. 96. Plošné rozšíření hlavních vývojů moravskoslezského devonu (silně zjednodušeno, I. Chlupáč 1988, 2000).



Vrbno (basinal) development

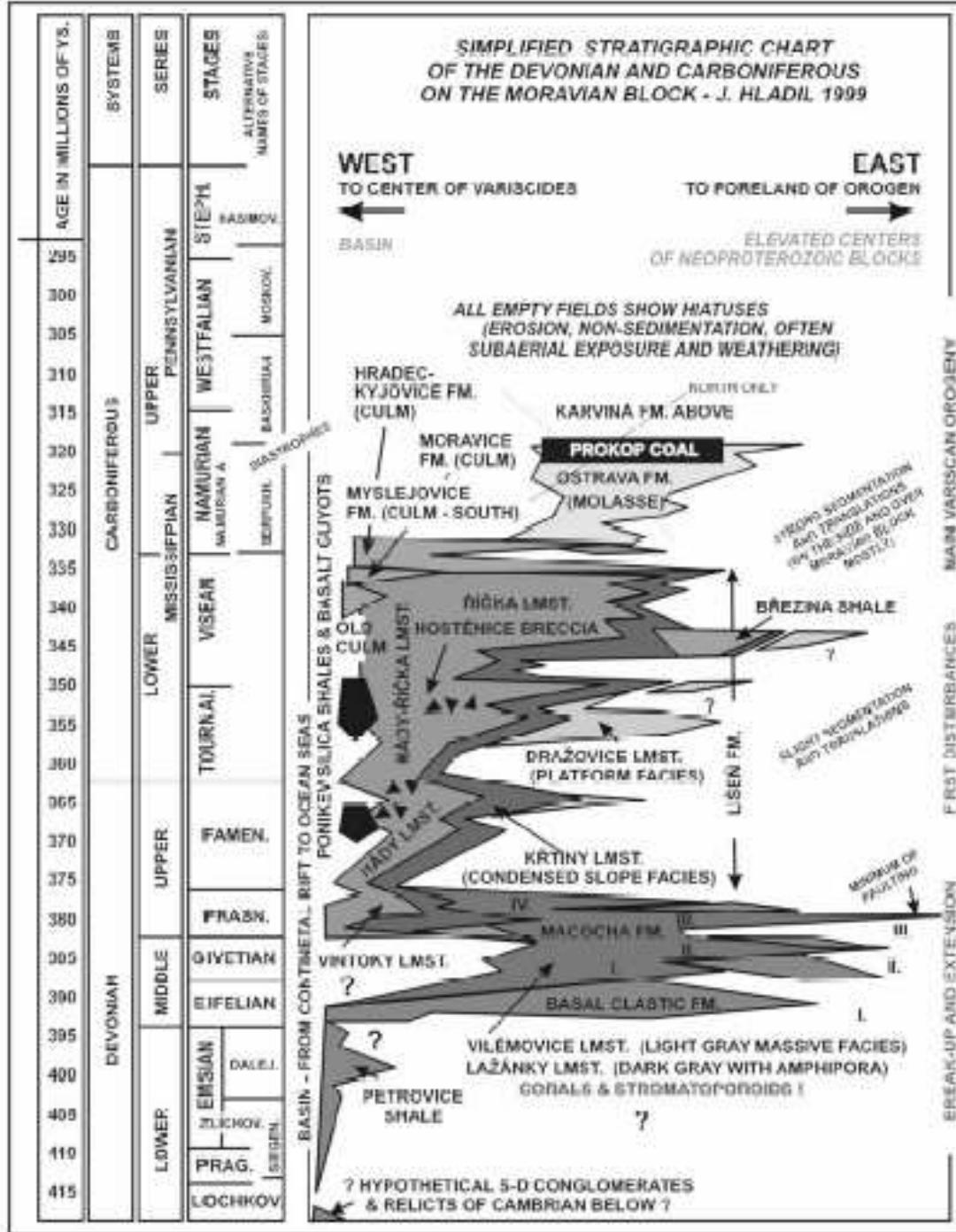
Vrbno Group – Hraby Jesenik Mts., more than 1000m. Basal phyllites overlain by Drakov quartzites. These metaquartzites contain early devonian fauna of brachiopods, tentaculites, bivalves, trilobites. Rhenish character. Metamorphosis up to the garnet and staurolite zone. Higher up phyllites and mica-schists with abundant basic and rare acid vulcanites. Final member – crystalline Heřmanovice Limestone -Givetian

Drahany (basinal) development

Drahany Upland, Šternberk-Hornobenešov belt.
Basal clastics – only Konice area, early Devonian fauna. Conlomerates, sandstones, sandy limestones
Stínava-Chabičov Formation, shales silty shales, basic vulcanites. Stinava Beds – early Devonian fauna.
Chabičov Beds – Emsian, Eifelian. Tentaculites, trilobites.
Jesenec Limestones – calciturbidites, middle Devonia- Tournaisian.
Ponikev Formation - shales, radiolarites. Frasnian to the uppermost Tournaisian
Volcanism – spilite-keratophyre, predominance of spilites, early Devonian to early Carboniferous.

Ludmírov (transitional) Development

Basal clastic formation – quartz conglomerates passing to sandy limestones
Stínava-Chabičov Formation – rich fauna of trilobites, goniatites, bivalves,
gastropods, corals etc. Similar lithology to Drahany development, no volcanites.
Equivalents of the Macocha Formation, limestones with corals, stromatoporoids
Alternating with calciturbidites and hemipelagic limestones.
Equivalents of Lišeň formation – Famennian
Ponikev Formation – shales with radiolarites, intercalations of limestones.

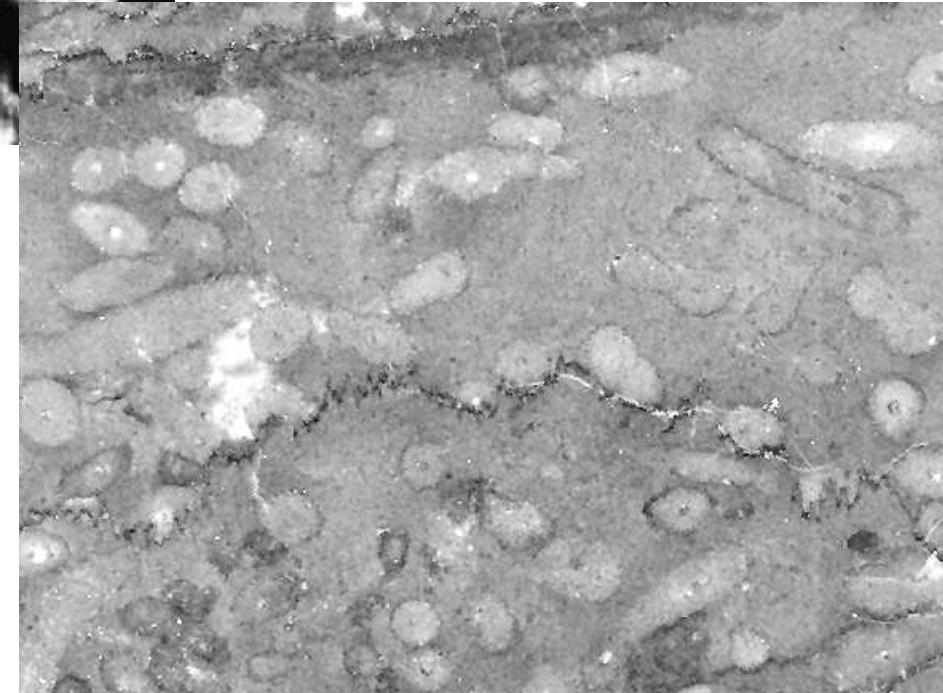




Amphipora ramosa



Bornhardtina



Moravian Karst (platform) Development

Basal clastics – red colour, conglomerates, sandstones

Macocha Formation

Josefov Formation – brachiopods (*Bornhardtina*, *Stringocephalus*).

Lažánky Limestones – dark grey, branched stromatoporoids (*Amphipora*, *Stachyodes*)

Vilémovice Limestones – abundant corals, stromatoporoids, calcareous algae.

4 cycles – Čelechovice, Býčí Skala, Ochoz and Mokrá starting with pioneering associations (darker limestones) to the flourishing of reef associations (light limestones)

Líšeň Formation

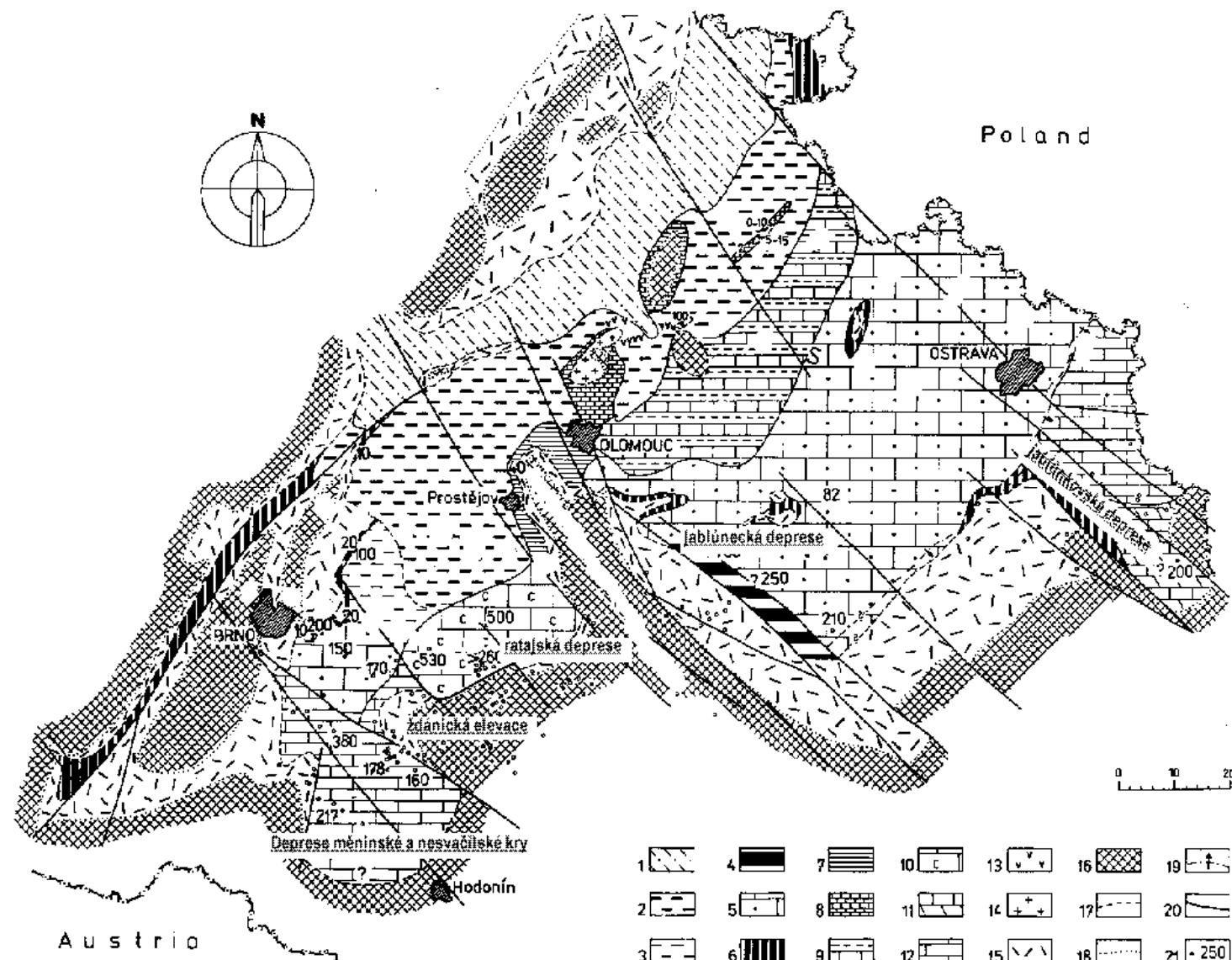
Křtiny Limestones nodular, micritic, pelagic and benthic fauna (conodonts, radiolarians), hemipelagic limestones, mud calciturbidites, higher content of clay

Hády-Říčka Limestones – bioclastic (crinoids, foraminifers, calcareous algae), intercalations of shales.

Calciturbidites, benthic and neustonic fauna. Hemipelagic parts – neustonic and planctonic fauna (conodonts, radiolarians)

Hněvotím limestones – thin bedded (laminated), calciturbidites.

Dražovice Limestones – boreholes eastern part of Moravia, below units of West Carpathians, shallow water platform limestones with crinoids, calcareous algae and foraminifers

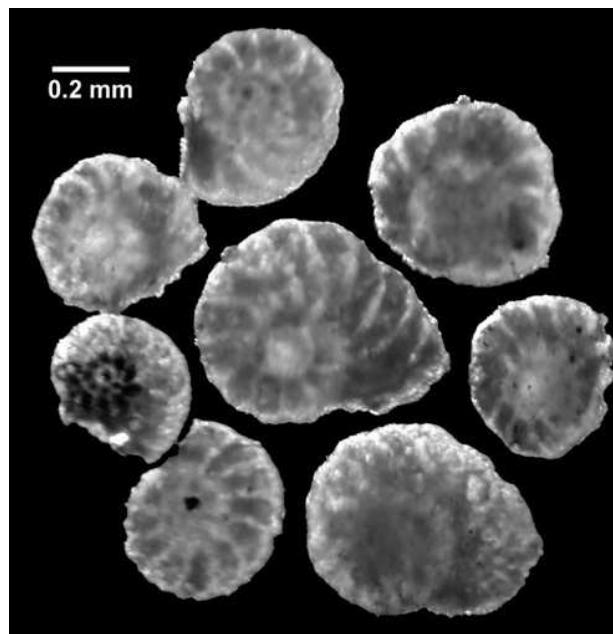




Palmatolepis



Nanicella

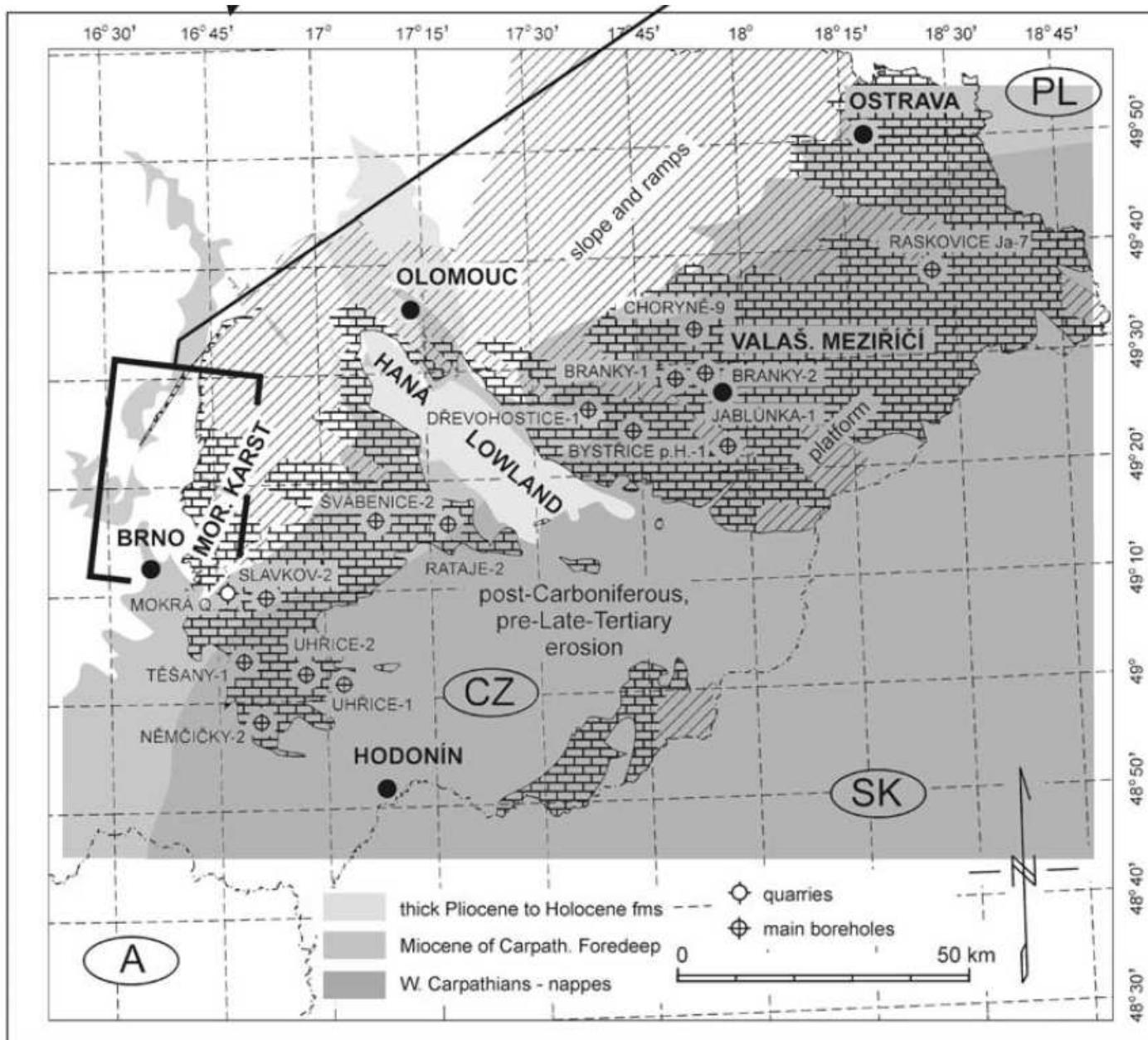


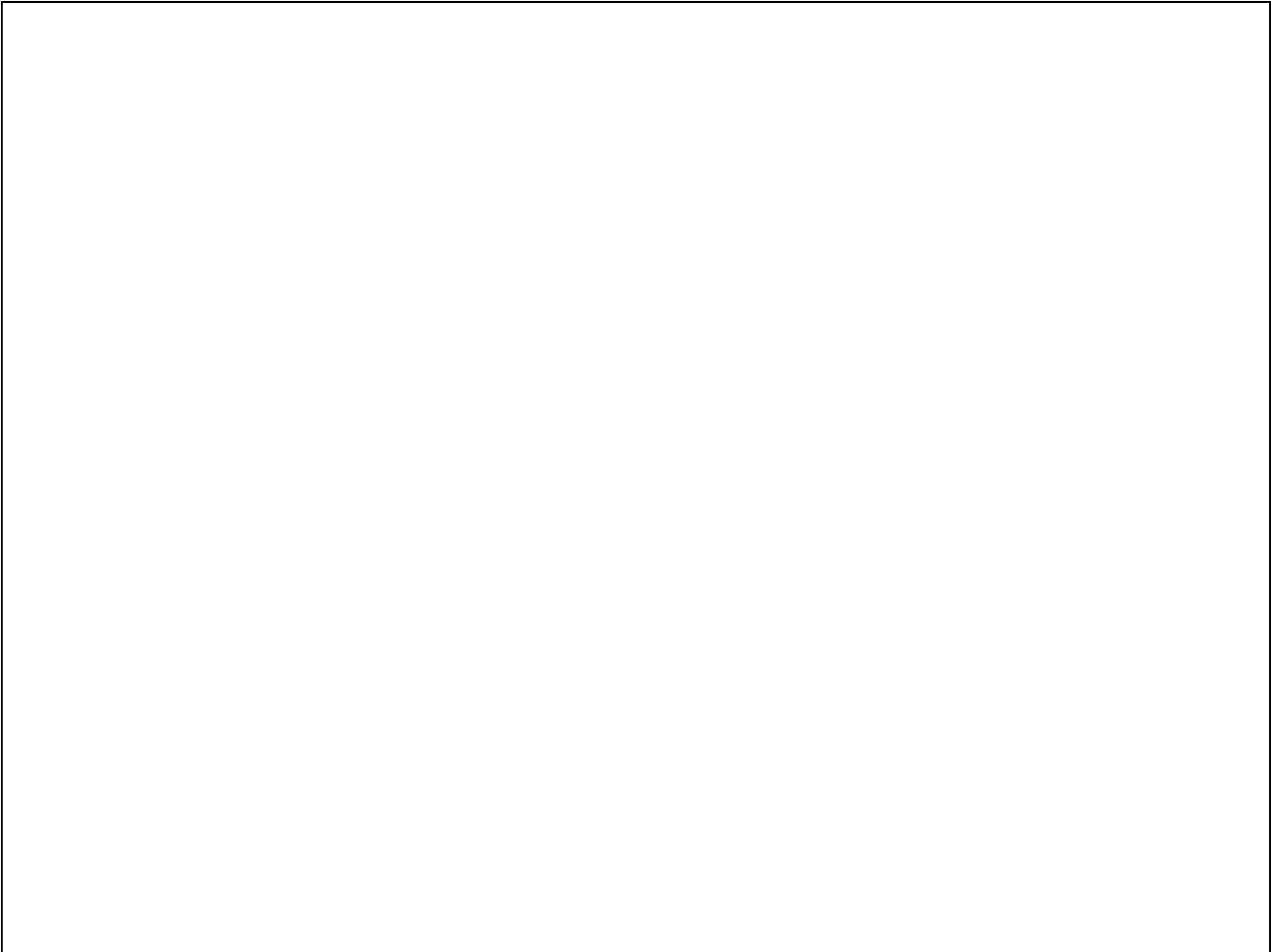


Clymenia

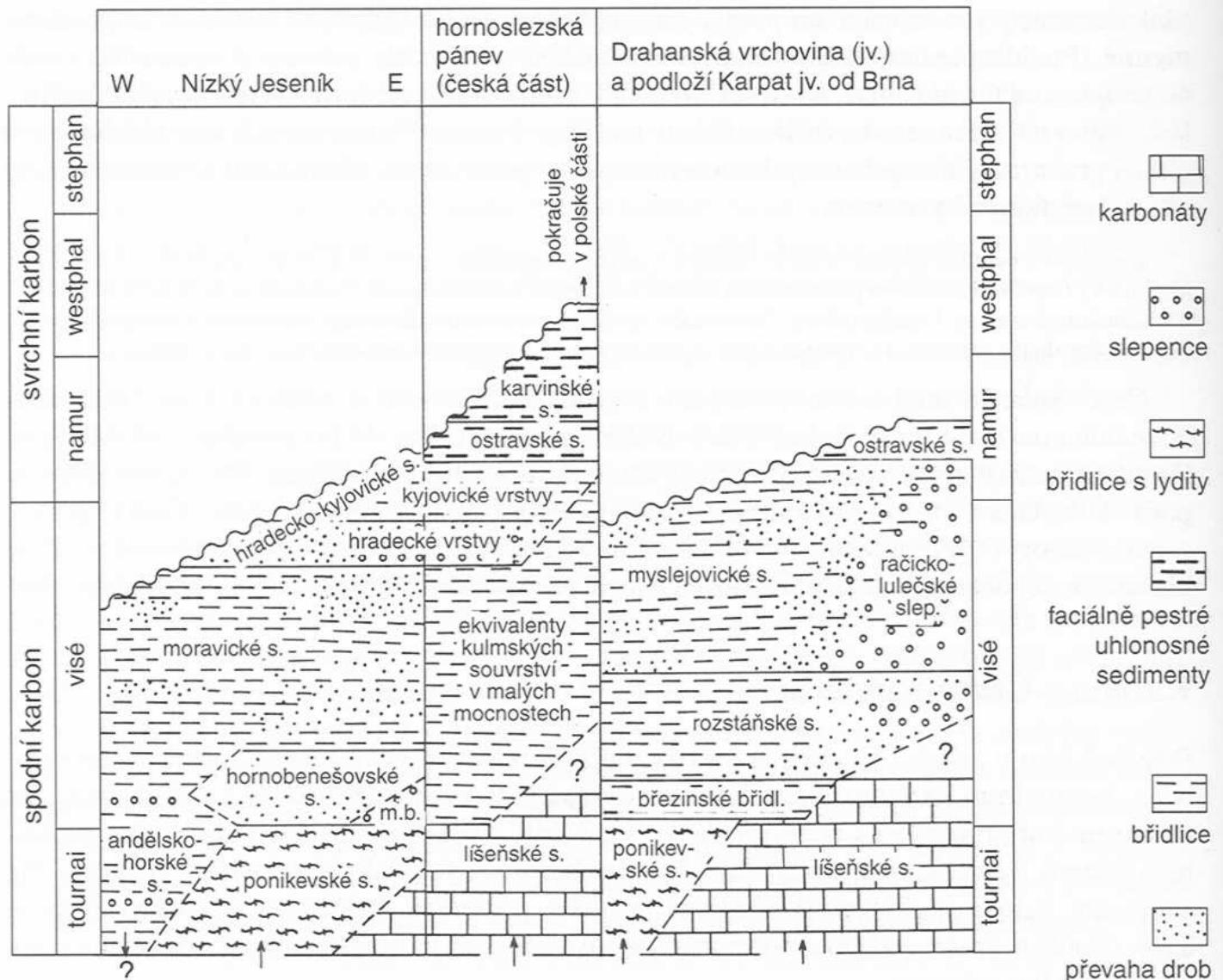


Clymenia

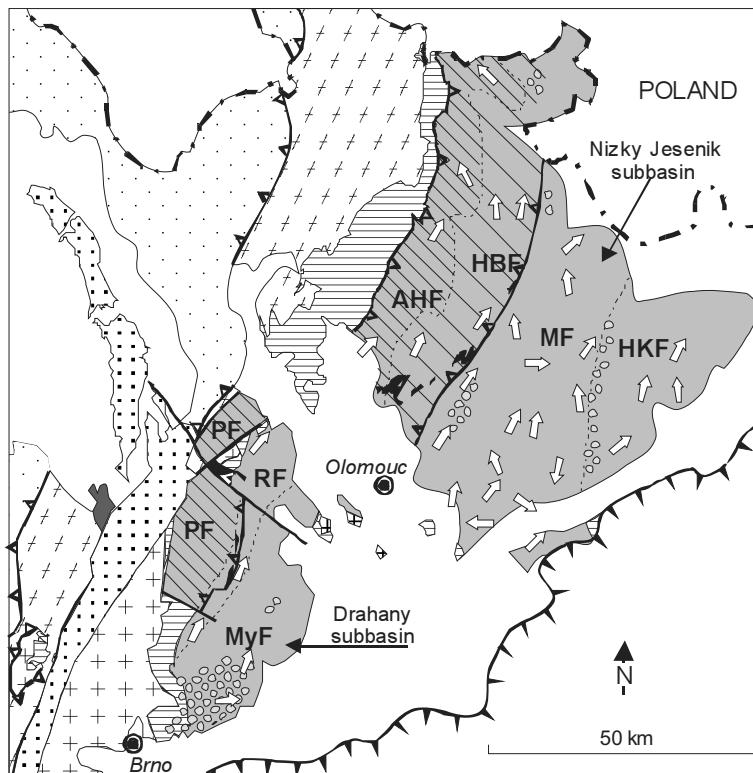




Geologická minulost České republiky



Obr. 109. Stratigrafické schéma karbonu moravskoslezské oblasti (sestaveno s použitím výzkumů O. Kumpery a J. Dvořáka). s. – souvrství, m.b. – moravskoberounské slepence, slep. – slepence, břidl. – břidlice.

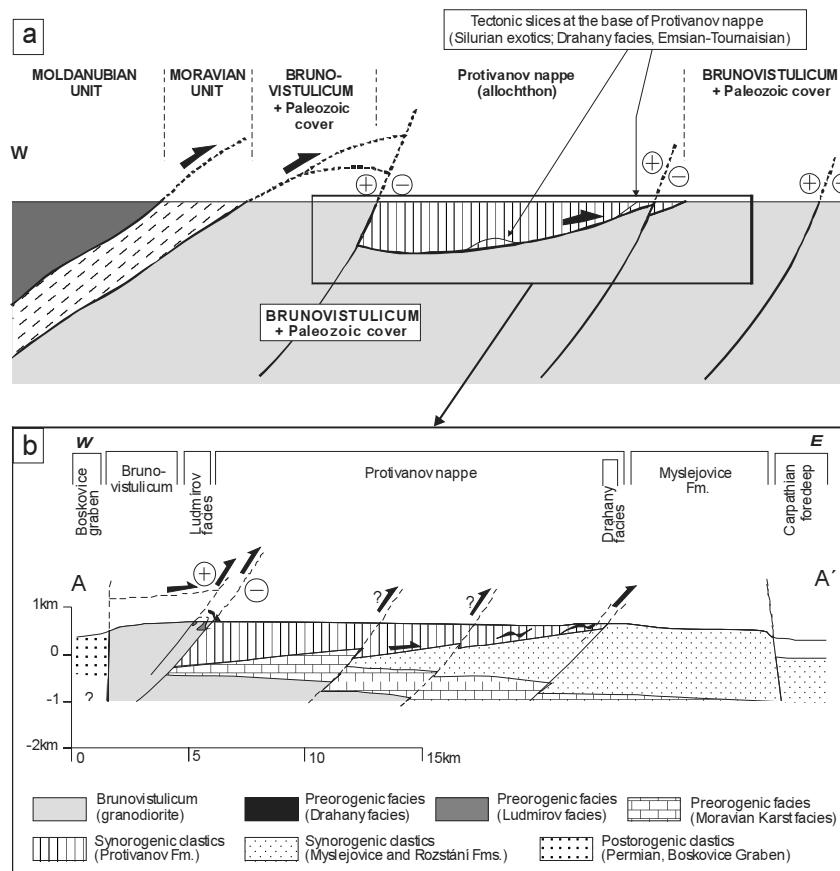


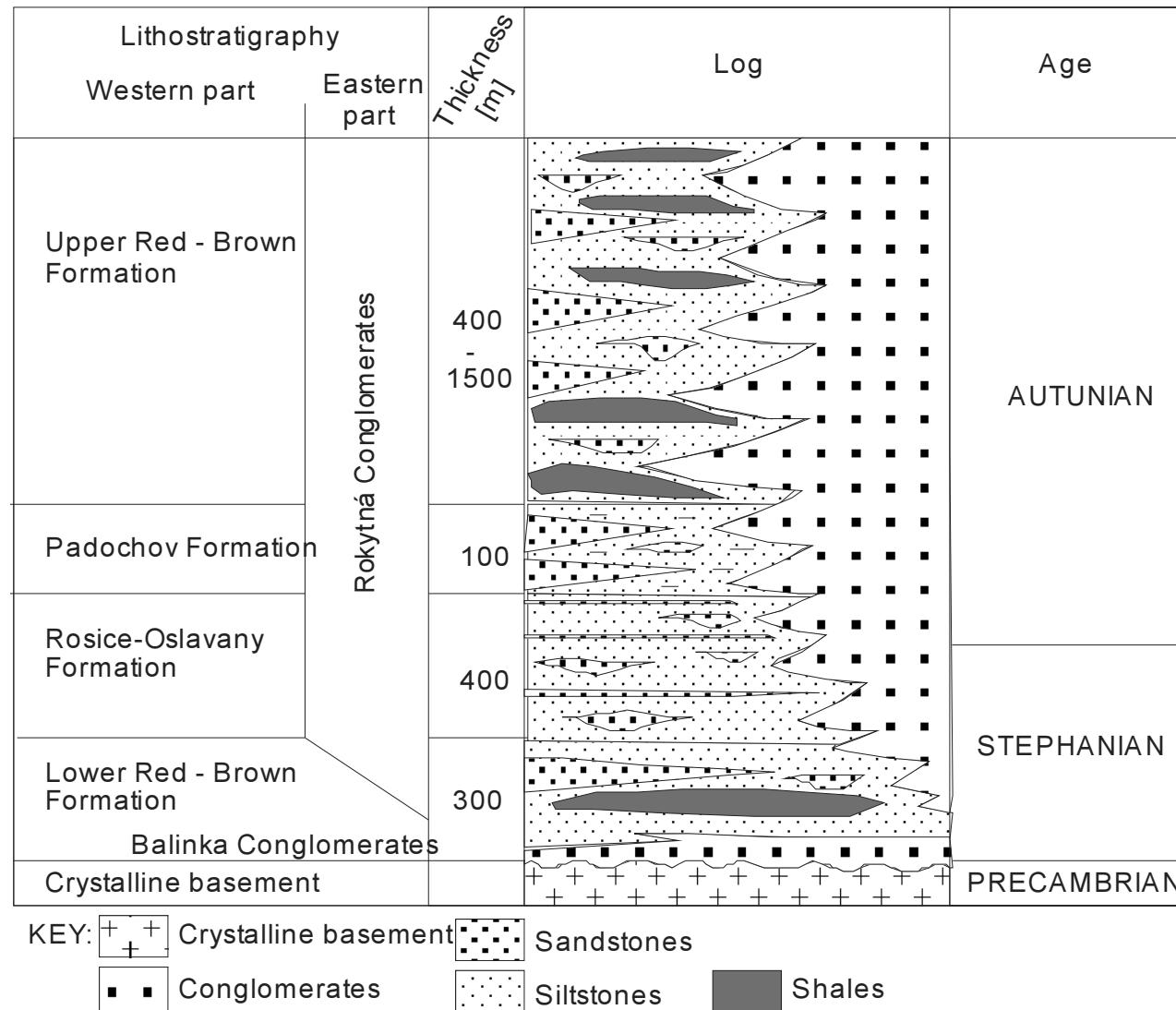
KEY:

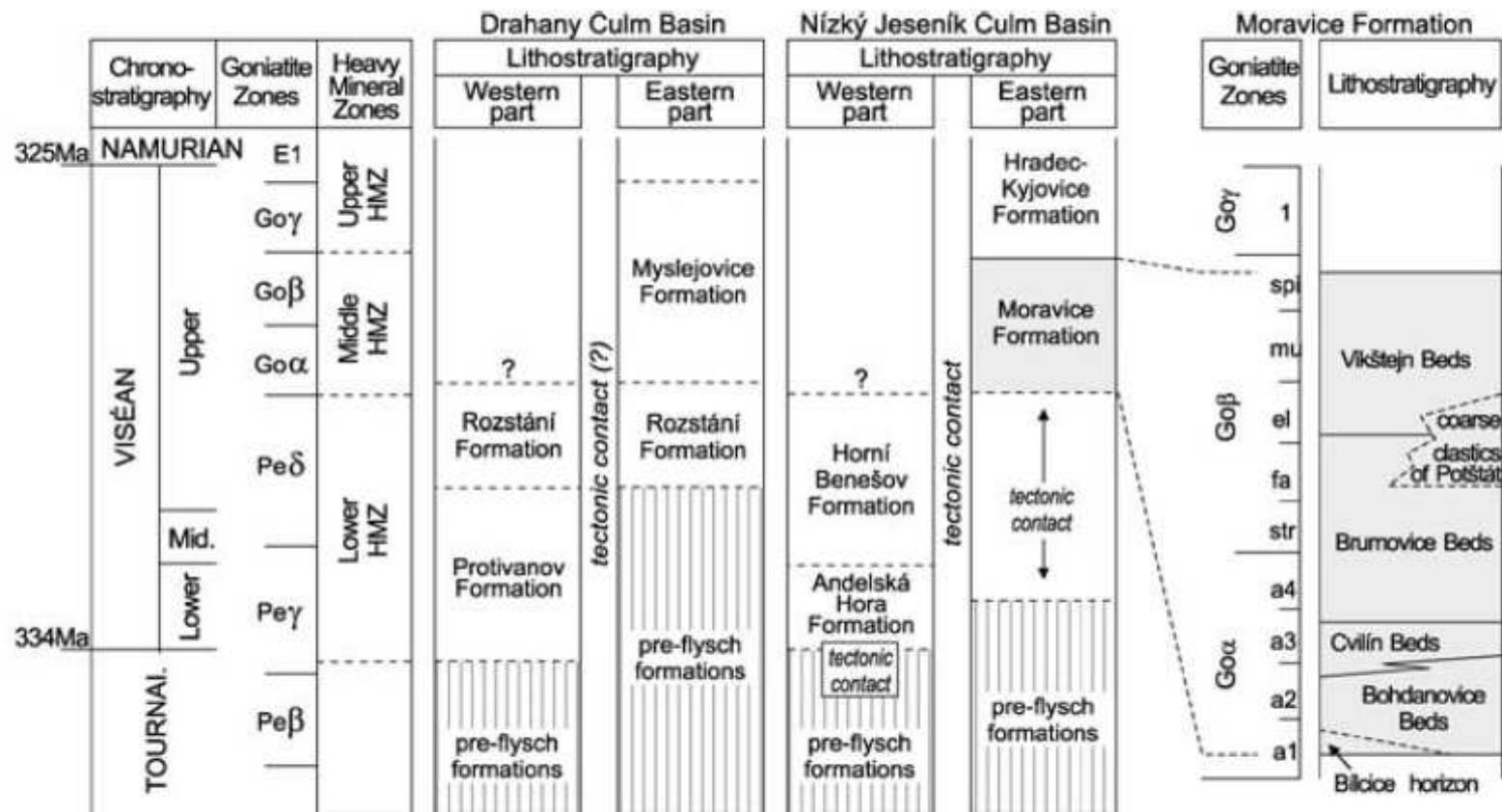
- Platform cover (Jurassic - Quaternary)
- Postorogenic clastics (Permian)
- Parautochthonous prerogenic units (Moravian Karst, Ludmírov and Vrbno facies)
- Allochthonous prerogenic units (Drahany facies)
- Moravo-Silesian Unit (Proterozoic - lower Paleozoic)
- Brunovistulicum (upper Proterozoic)
- Lugodanubian group of terranes (Proterozoic - ?Carboniferous)
- Alpine front (Outer Western Carpathians)
- Post-Variscan fault
- Variscan thrust fault

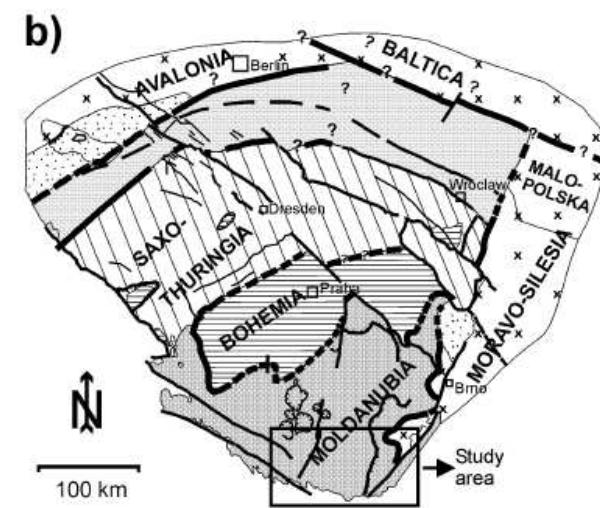
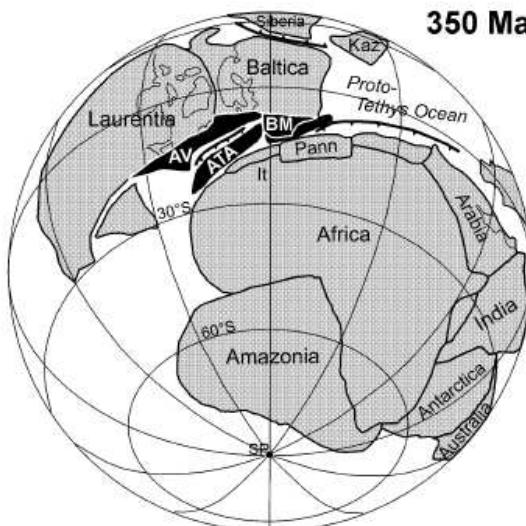
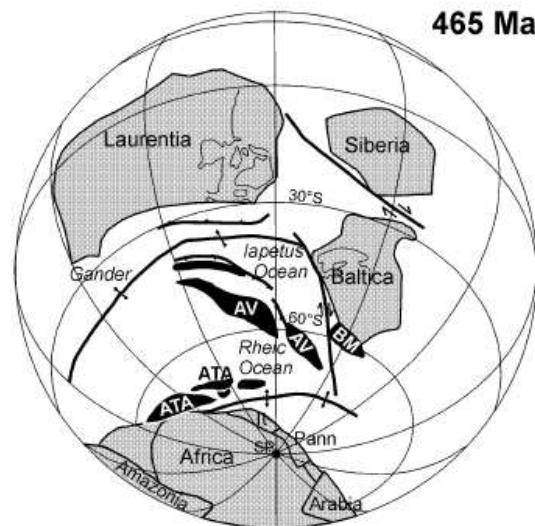
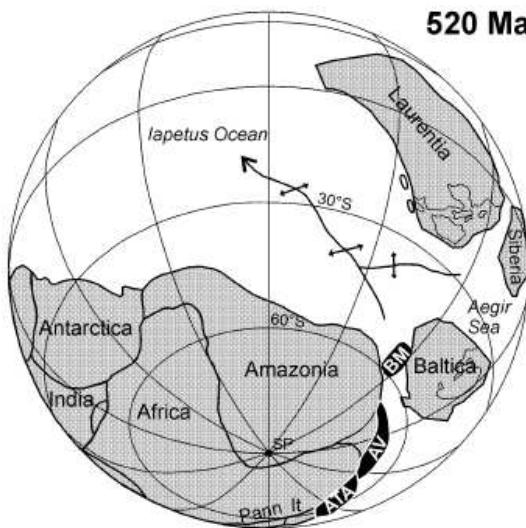
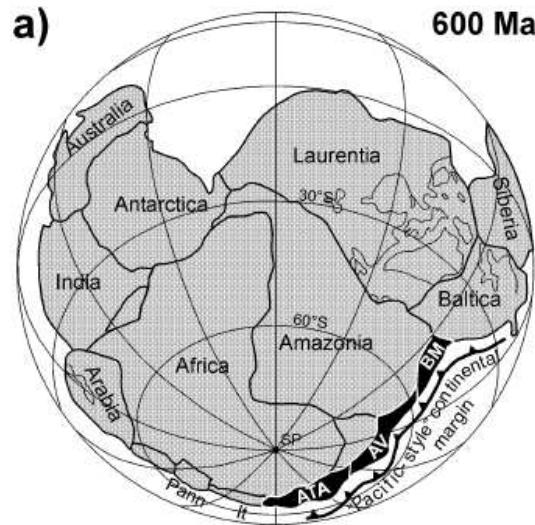
SYNOROGENIC CLASTICS

- | |
|---|
| Parautochthonous synorogenic clastics |
| Allochthonous synorogenic clastics |
| Conglomerate facies within synorogenic clastics |
| - - - lithologic boundary between flysch formations |
| PF Protivanov Formation |
| RF Rozstáníl Formation |
| MyF Myslejovice Formation |
| AHF Andelska Hora Formation |
| HBF Horni Benesov Formation |
| MF Moravice Formation |
| HKF Hradec-Kyjovice Formation |
| ➡ paleocurrent directions |

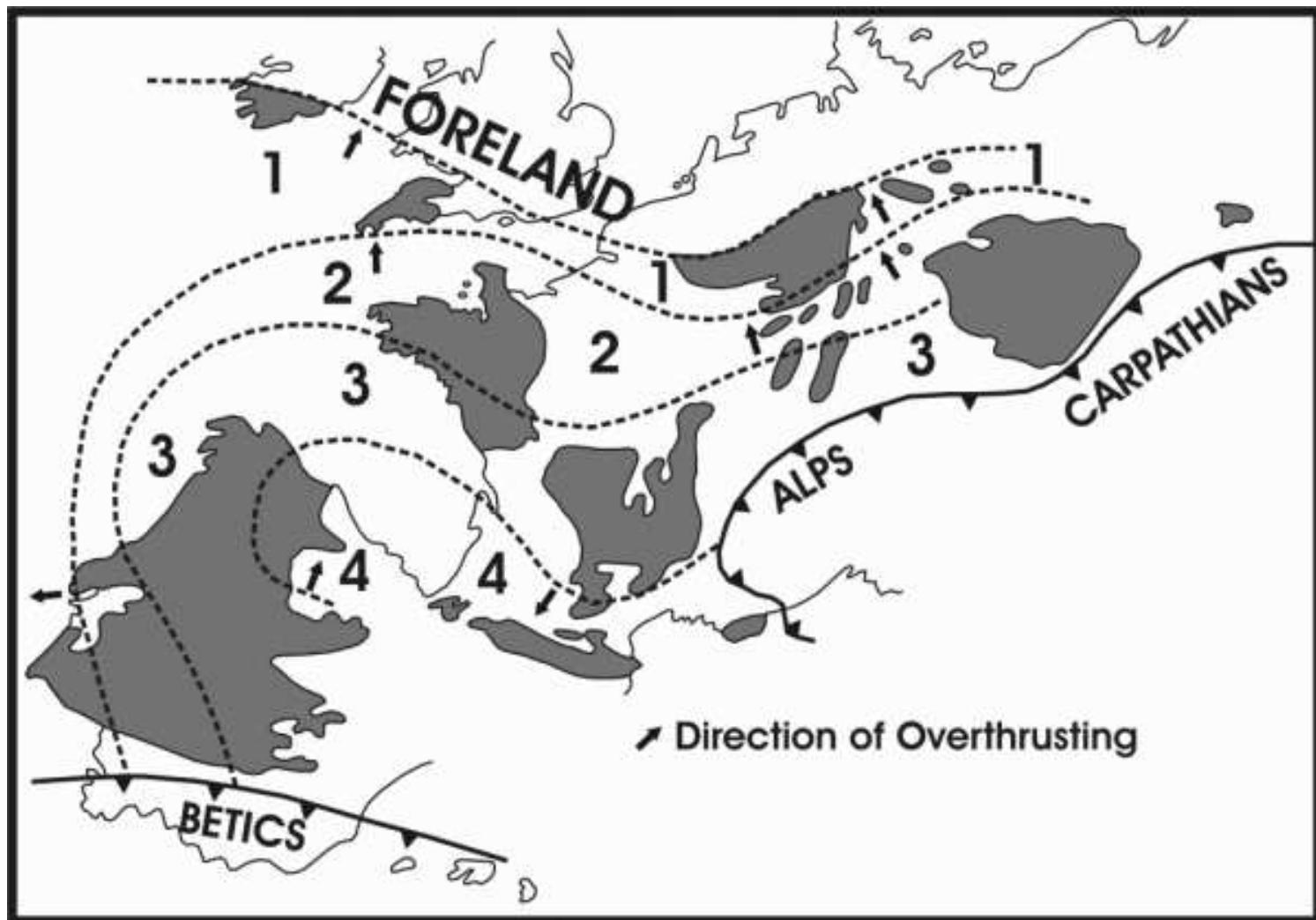








- x Southern margin of Old Red Continent
- Rheno-Hercynian oceanic nappes and metamorphic equivalents in Silesia
- Northern Phyllite Zone and Mid-German Crystalline High(Late Devonian - Early Carboniferous active margin)



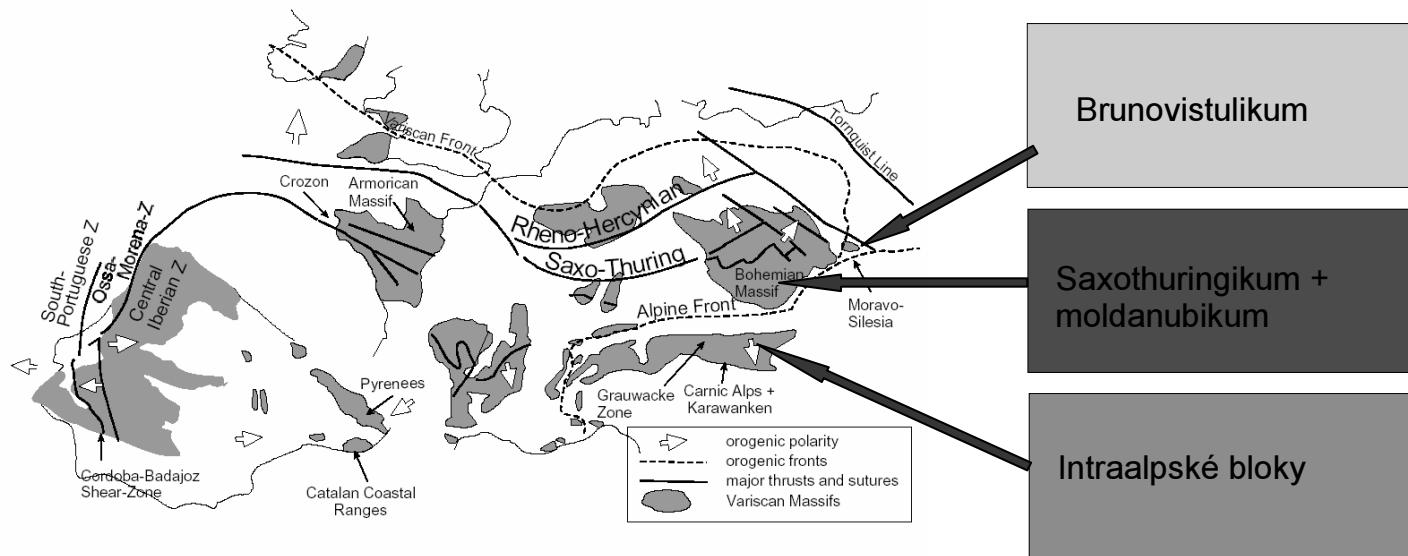


Figure 2: Main structural elements of the European Variscan fold belt.

