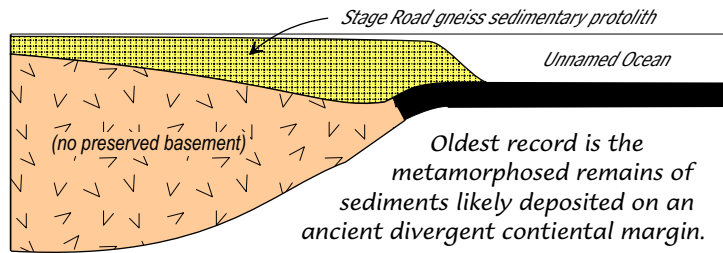
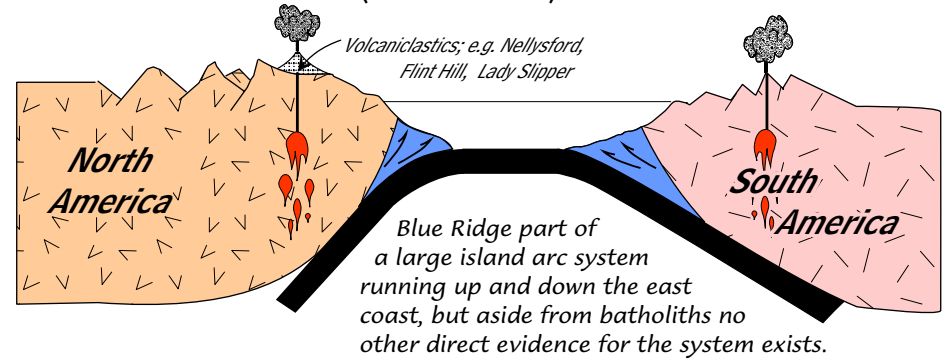


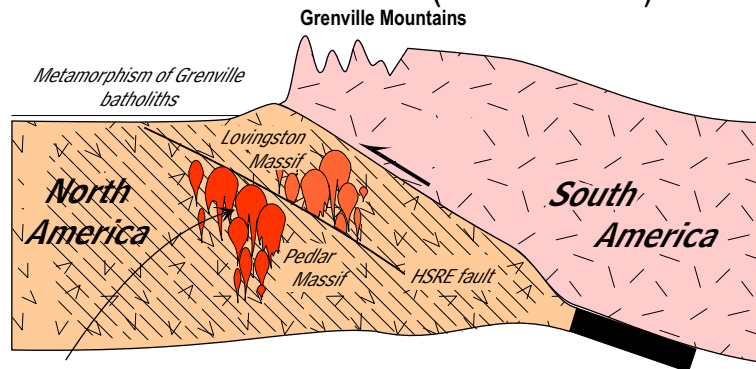
A - Mid Proterozoic (1.8-1.4 Ga)



B - Mid Proterozoic (1.2-1.1 Ga)

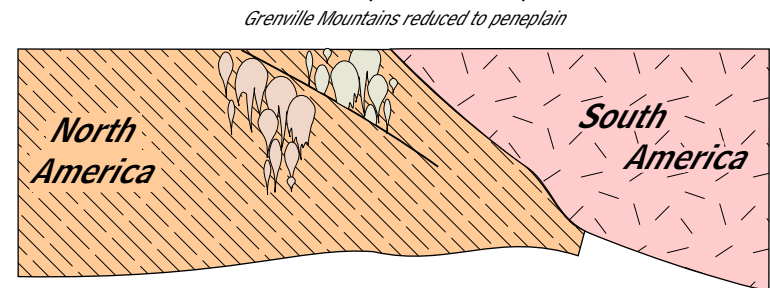


C - Mid-Late Proterozoic (1.1 - 0.9 Ga)



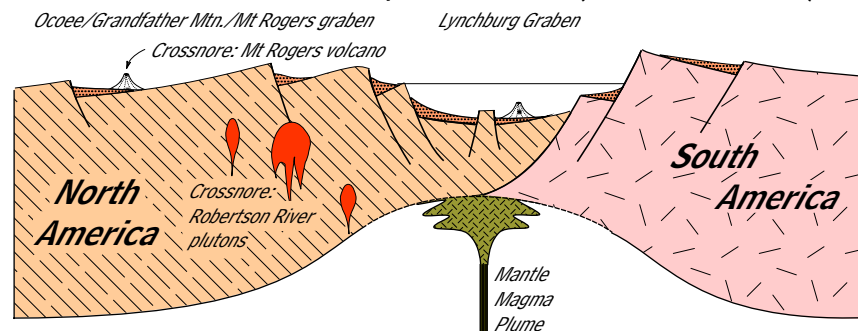
Grenville Intrusive Suite; e.g. Pedlar River, Saddle Back, & Peaks of Otter plutons (Pedlar massif); Stage Road, Border, Archer Mtn., and Roseland (Lovingson massif)

D - Late Proterozoic (~0.8 Ga)



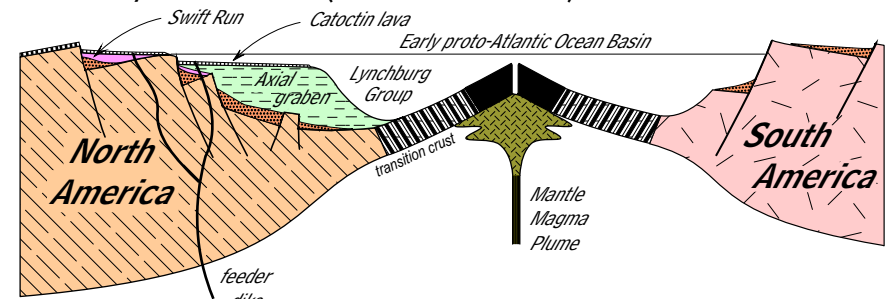
Erosion of Grenville mountain range; exposure of metamorphosed Grenville batholiths.

E - Late Proterozoic-Early Cambrian (760 - 700 Ma)



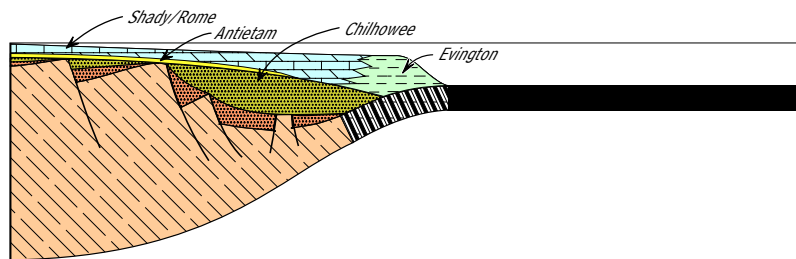
Early block faulting creating complex system of horsts and grabens. Intrusion of Crossnore alkali volcanic/plutonic suite. Between 750-580 Ma, Snowball Earth - four severe, glaciation events, each lasting about 10 million years.

F - Early Cambrian (700 - 570 Ma)

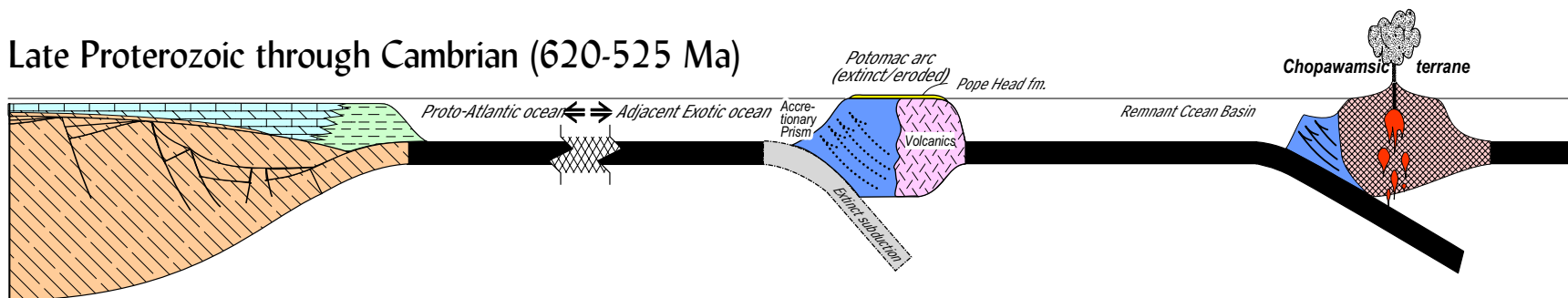


Rodinia rifts apart forming proto-Atlantic ocean. At this stage ocean basin less than 100 km wide. Fracturing of continental edge allows mafic feeder dikes to feed Catoctin lava flows. Climate now tropical

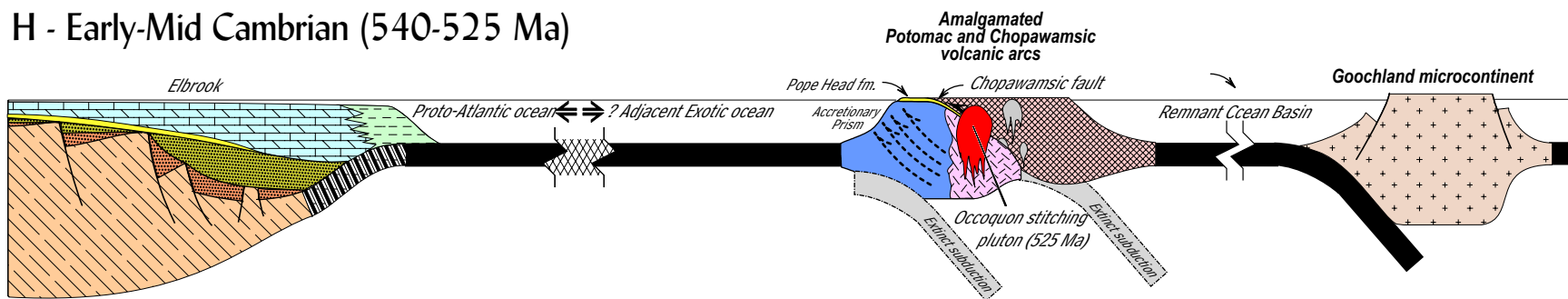
G - Early Cambrian (~560 Ma)



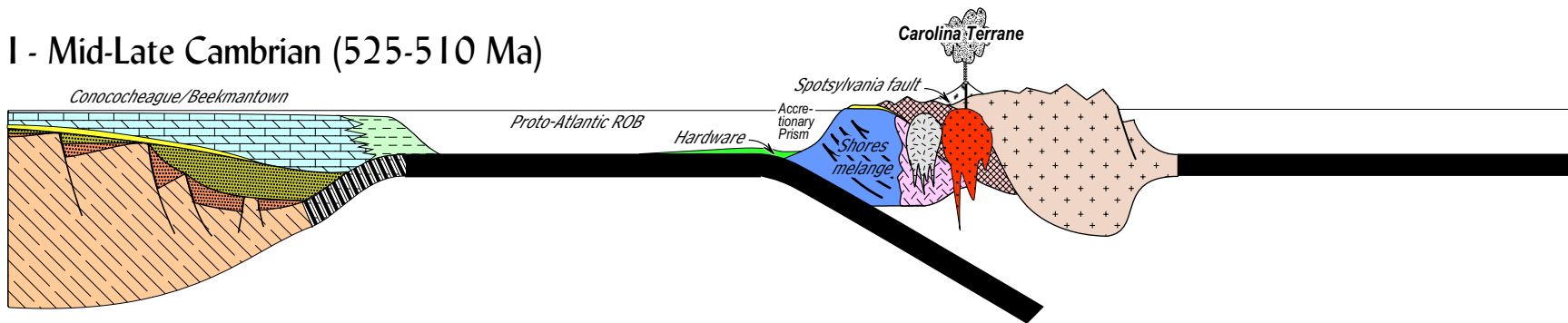
Late Proterozoic through Cambrian (620-525 Ma)



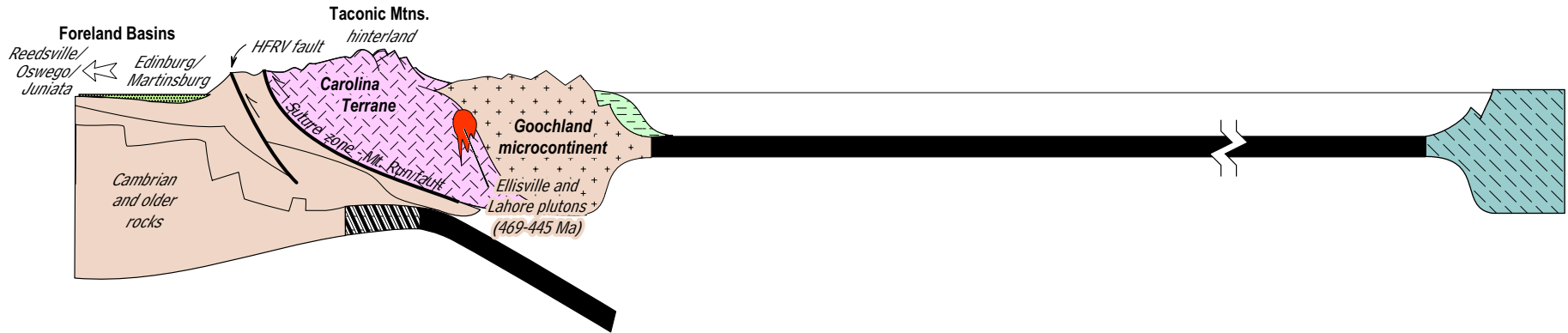
H - Early-Mid Cambrian (540-525 Ma)



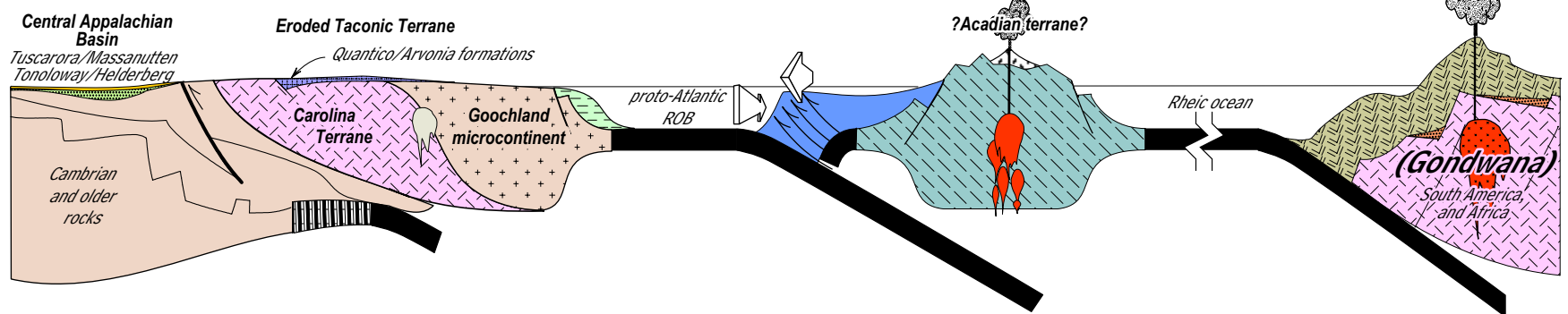
I - Mid-Late Cambrian (525-510 Ma)



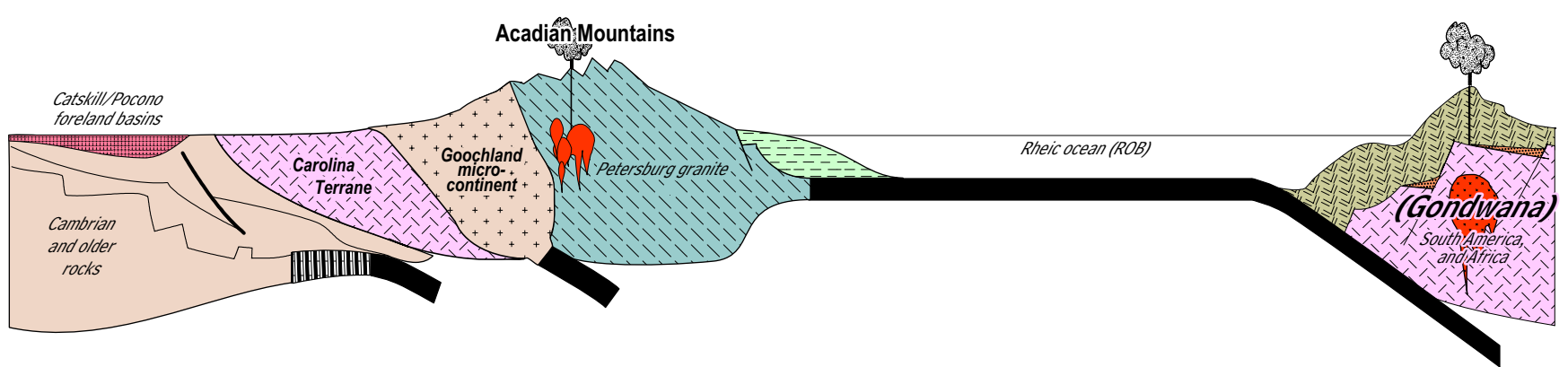
J - Middle - Late Ordovician (485-438 Ma)



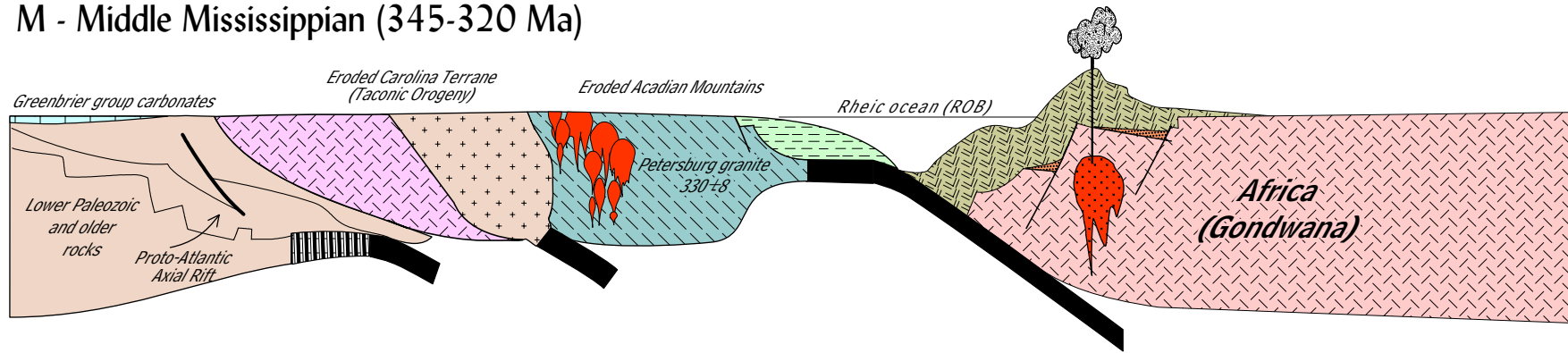
K - Silurian-Early Devonian (438- ~385 Ma)



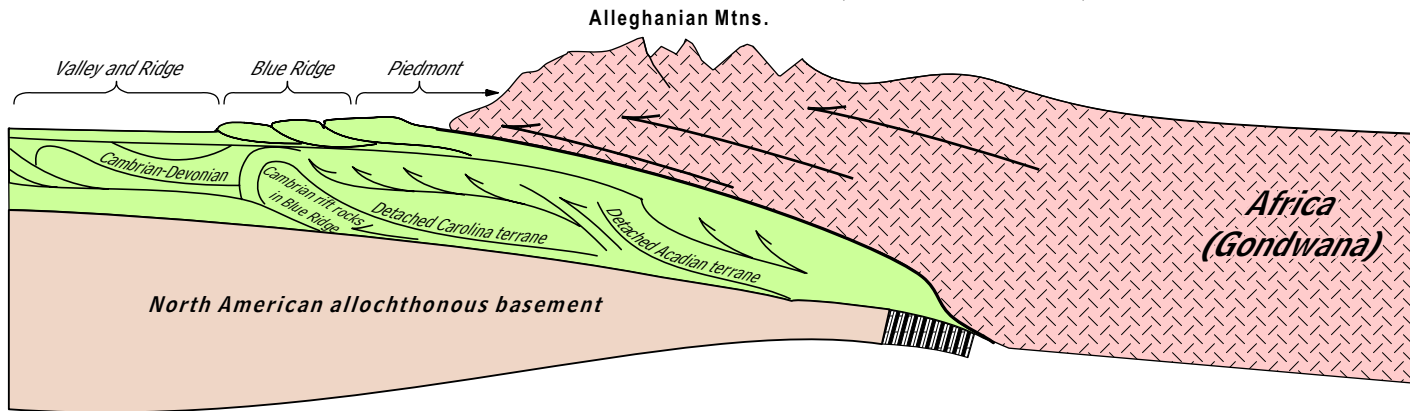
L - Middle Devonian-Early Mississippian (385-345 Ma)



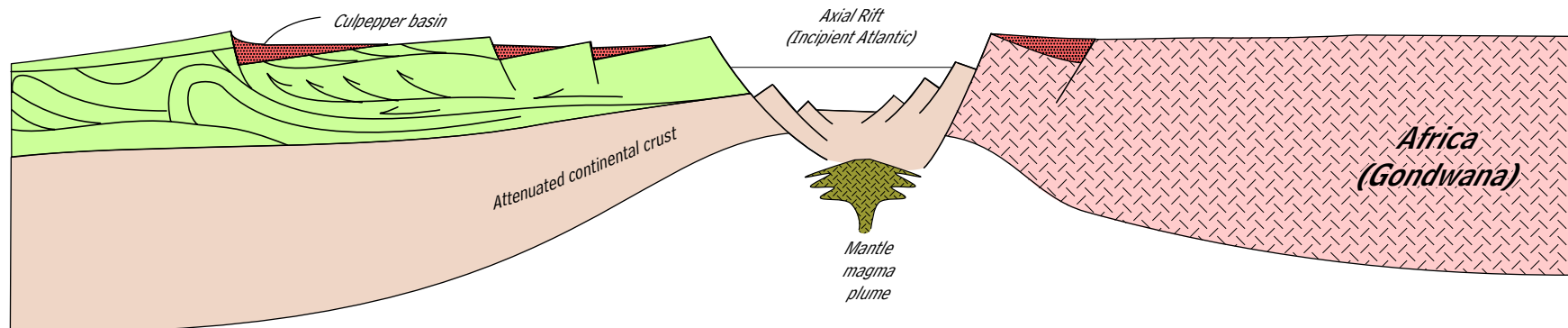
M - Middle Mississippian (345-320 Ma)



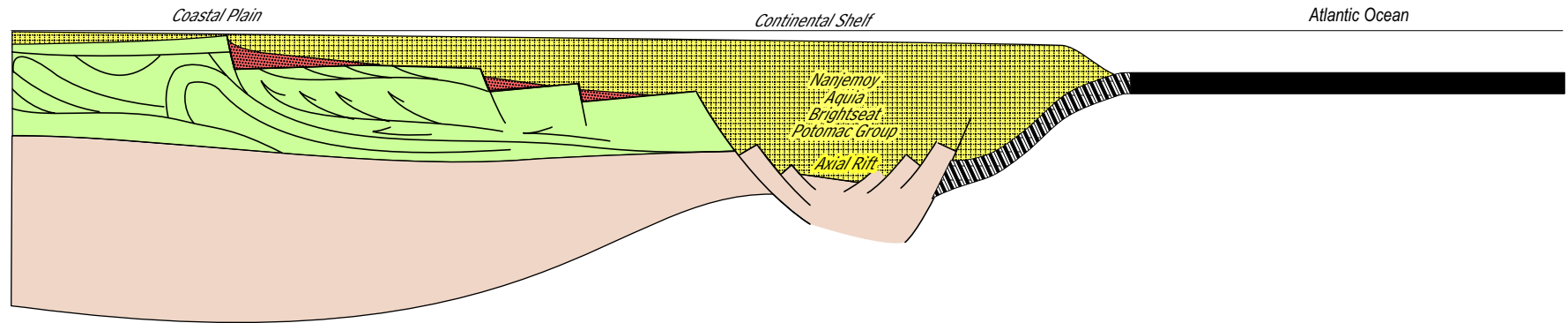
N - Late Mississippian, Pennsylvanian, and Permian (320 - 250 Ma)



O - Triassic-Lower Jurassic (230-175 Ma)



P - Late Cretaceous - Paleogene (175-45 Ma)



Q - Neogene (45-Present)

