Province				8a a 8aa.a8.a b. a	1	
Province	Blue Ridge	Piedmont	Valley & Ridge	Appalachian	Culpeper Basin & related Triassic	Coastal Plain
Event				Plateaus	lowlands	
More recent events	Incision of rivers, formation of water gaps	Incision of rivers	Intrusion of mafic & intermediate igneous rocks @ WV/VA border. Incision of rivers, formation of water gaps	Incision of rivers		Giant crater beneath Chesapeake Bay, shocked quartz & tectites; breccia, diversion of rivers
Cretaceous-Cenozoic passive margin sedimentation		Hilltops capped w/ Cretaceous river gravels				Thick "blanket" of conglomerate, sand, shale, and fossil debris
Atlantic rifting of Pangaea	A few Jurassic dikes	(see Culpeper Basin column)	A few Jurassic dikes		Normal faulting, diabase intrusions + basalt eruptions; rift sediments (conglomerate, arkose + lake sediments)	
Alleghanian Orogeny	Folding into a broad anticlinorium; ductile shear zones. Metamorphism to greenschist facies + thrust faulting		Thrust faulting, intense folding (anticlines & synclines), & development of slaty cleavage	Slight folding: broad, open anticlines & synclines		
Acadian Orogeny		Some dikes; felsic intrusions like the Petersburg Granite in Richmond; metamorphism in north	Thick package of clastic sediment (Catskill)	Thick package of clastic sediment (Catskill): Pennsylvanian age		
Middle Paleozoic passive margin sedimentation			Silurian & Devonian carbonates			
Taconian Orogeny		Accreted metasedimentary + metavolcanic rocks, metamorphism, deformation, & partial melting	Quartz sandstone Switch to deposition of shale, graywacke, & bentonite			
Early Paleozoic passive margin sedimentation	Chilhowee Group transgressive sequence	Quartzite → schist → marble transgressive sequence in Maryland	Cambrian + Ordovician carbonates w/ stromatolites & ooids			
lapetan rifting of Rodinia	Flood basalts & their feeder dikes; rift sediments (arkose; conglomerate, shale)					
Grenville Orogeny	Granites & charnockites & gneisses					

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