# Geologic Events in the Virginia Blue Ridge

C. M. Bailey, College of William & Mary

| | | |
|---|---|---|
| 0 Ma | exhumation & erosion | |
| 100 Ma | | |
| | slow subsidence | |
| 200 Ma | Deposition of sediments in Culpeper Basin & intrusion of diabase | Atlantic Rifting |
| | erosion<br>waning uplift | |
| 300 Ma | deformation, brittle faulting, low-grade metamorphism, & uplift | Alleghanian Orogeny |
| 400 Ma | Deposition of sediments in Valley & Ridge — subsidence & burial | |
| | deformation, ductile faulting, low-grade metamorphism, uplift, & erosion | Taconic Orogeny |
| 500 Ma | Deposition of carbonates — slow subsidence, burial, & development of passive margin | |
| | Deposition of Chilhowee Group sediments<br>Extrusion of Catoctin Formation lavas (n & c VA) | Late Phase Iapetan Rifting |
| 600 Ma | thermal uplift & erosion | |
| 700 Ma | Deposition of Lynchburg Group & Mechum River Fm (n & c VA)<br>Intrusion of Robertson River & Crossnore granites (n & c VA)<br>Extrusion of Mt. Rogers volcanics (s VA) | Early Phase Iapetan Rifting |
| 800 Ma | erosion | |
| 900 Ma | erosion<br>waning uplift | |
| 1000 Ma | Intrusion of granitic plutons (Old Rag granite, etc.) & high-grade metamorphism of older gneisses | Grenvillian Orogeny |
| 1100 Ma | subsidence & burial | |
| 1200 Ma | Deposition & extrusion of sedimentary & volcanic protoliths of older gneisses | |