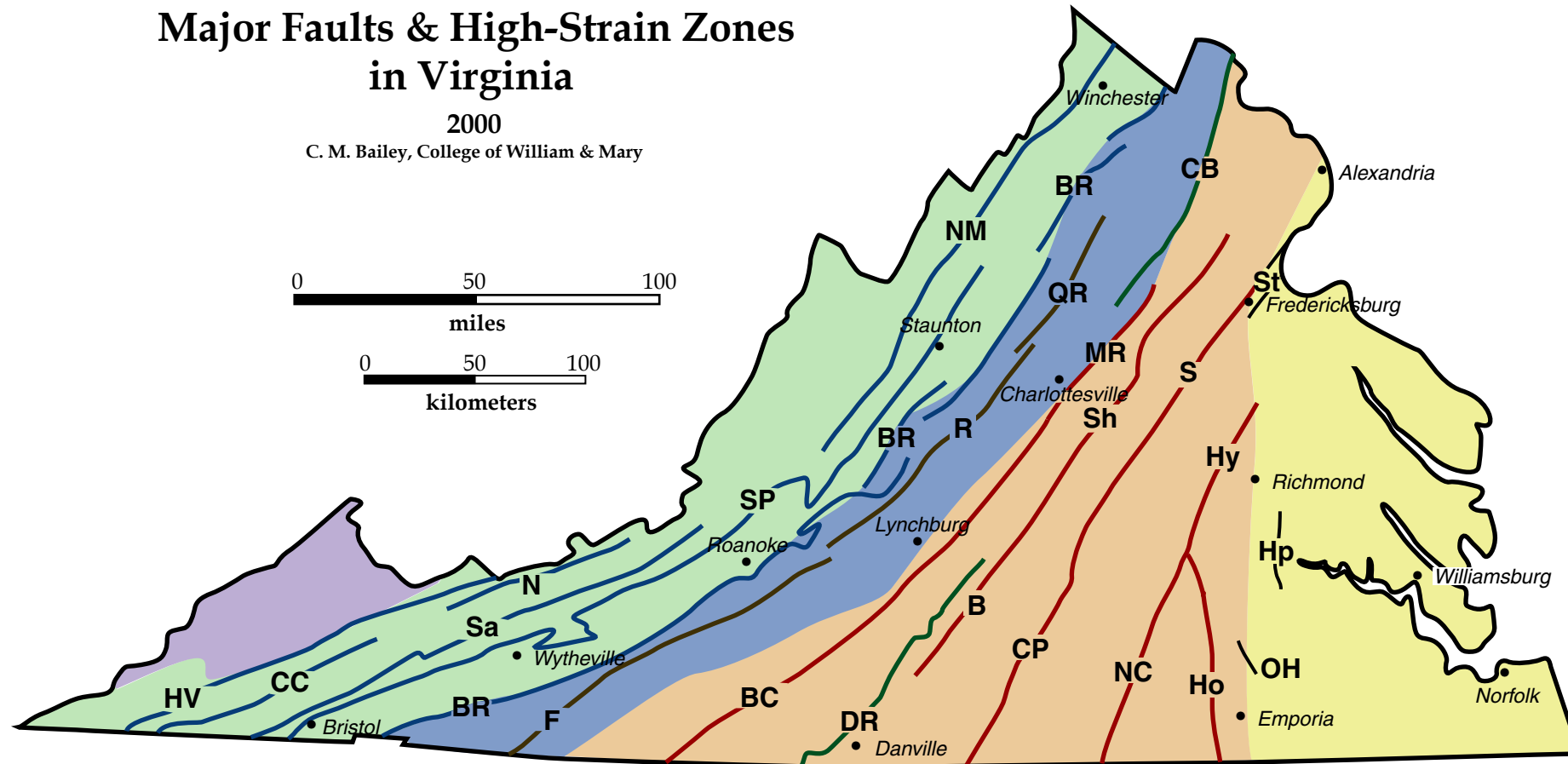


Major Faults & High-Strain Zones in Virginia

2000

C. M. Bailey, College of William & Mary



Valley & Ridge faults

Low-angle thrust faults of Alleghanian age (~300 Ma).

- BR-** Blue Ridge fault system
- CC-** Copper Creek fault
- HV-** Holston Valley fault
- N-** Narrows fault
- NM-** North Mountain fault
- Sa-** Saltville fault
- SP-** Staunton-Pulaski fault

Blue Ridge high-strain zones

Reverse ductile high-strain zones of Precambrian to Alleghanian age (~700 to ~300 Ma).

- F-** Fries zone
- R-** Rockfish Valley zone
- Q-** Quaker Run zone

Piedmont high-strain zones

Reverse and strike-slip ductile high-strain zones of Taconic to Alleghanian age (~450- ~300 Ma). Many faults reactivated during Mesozoic.

- B-** Brookneal zone
- BC-** Bowens Creek fault
- CP-** Central Piedmont zone
- Ho-** Hollister zone
- Hy-** Hylas zone
- MR-** Mountain Run fault
- NC-** Nutbush Creek zone
- S-** Spotsylvania zone
- Sh-** Shores melange zone

Mesozoic faults

Brittle normal faults of Mesozoic age (~200 Ma).

- CB-** Culpeper Basin
- DR-** Dan River Basin

Cenozoic faults

Brittle reverse faults (65 Ma to the present).

- Hp-** Hopewell faults
- OH-** Old Hickory faults
- St-** Stafford faults