### METAMORPHIC ROCKS

- **Paleozoic metamorphic rocks**
  - Chiefly of low metamorphic grade, but locally of medium grade

- **Metamorphic rocks of uncertain age**
  - Chiefly of medium or high metamorphic grade. Mostly metasedimentary and metavolcanic, but may include some metamorphosed intrusive rocks

- **Upper Precambrian metamorphic rocks**
  - Sedimentary and volcanic rocks of low metamorphic grade along northwestern edge of the Blue Ridge belt and of medium or high grade elsewhere

- **Precambrian rocks**
  - Plutonic gneiss and associated metamorphic rocks

### IGNEOUS ROCKS

- **Mesozoic igneous rocks**
  - Dikes, sills and stocks of diabase of Triassic or later age

- **Alkaline intrusive rocks**
  - Syenite ring dike in central North Carolina and alkalic dikes in western Virginia. Probably of Paleozoic age

- **Ultramafic rocks**
  - Peridotite, dunite, serpentinitc and related rocks mostly of Paleozoic age

- **Mafic intrusive rocks**
  - Chiefly gabbro and related rocks of Paleozoic age. Includes Roseland anorthosite of Precambrian age in Virginia

- **Granitic rocks**
  - Includes granite gneiss and intrusive granite in the Piedmont. Largely of Paleozoic age in the Piedmont; includes upper Precambrian intrusive granites in the Blue Ridge

### SEDIMENTARY ROCKS

- **Triassic basin deposits**
  - Chiefly shale, arkose and conglomerate

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**United States (Appalachian area), Structure, 1:2,500,000, 1968**

**Sheet 3**, **cop. 1**
GEOLOGIC BOUNDARIES

Base of Eocene sedimentary rocks of the Atlantic and Gulf Coastal Plains

Base of Cretaceous sedimentary rocks of the Atlantic and Gulf Coastal Plains

STRUCTURAL FEATURES

Thrust fault
Saw teeth on upper plate. K, klippe; w, window

Normal fault
Teeth on downthrown side

Elongate, closely compressed anticline
Width of line suggests height, steepness or size of fold

Anticlinal axis
Arrow shows direction of plunge

Axis of overturned anticline

Synclinal axis
Arrow shows direction of plunge

Strike slip fault
Arrows show direction of movement

Unclassified fault

Strike and dip of beds

Structure contours
Datum is mean sea level.
Horizon contoured and contour interval indicated in each area. Boundary between areas contoured shown by dotted lines. Where contours are superimposed, those on the lower horizon are dashed

United States (Appalachian area). Structure
1:2,500,000. 1968.

Sheet 4, cop. 1.
PRINCIPAL SOURCES OF DATA

USED IN REVISION


New Jersey: Unpublished data from A. A. Drake

Maryland: Geologic map of Maryland, scale 1:250,000 (Maryland Geological Survey, 1968) and unpublished data from C. A. Hopson, G. W. Fisher, and D. L. Southwick


Tennessee: Geologic map of Tennessee, scale 1:250,000 (Tenn. Div. of Geology, 1966) and unpublished data by J. B. Hadley and D. W. Rankin

South Carolina: Geologic map of the crystalline rocks of South Carolina, scale 1:250,000 (U.S. Geol. Survey Misc. Geol. Investigations Map 413, 1965)

Georgia: Unpublished data from V. J. Hurst and M. W. Higgins

Alabana: Alabama Geological Society 2d annual field trip guidebook, 1964

U.S. Geological Survey
OPEN FILE MAP
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

United States (Appalachian area). Structure
1:2,500,000. 1968.
Sheet 5.
cop. 1.