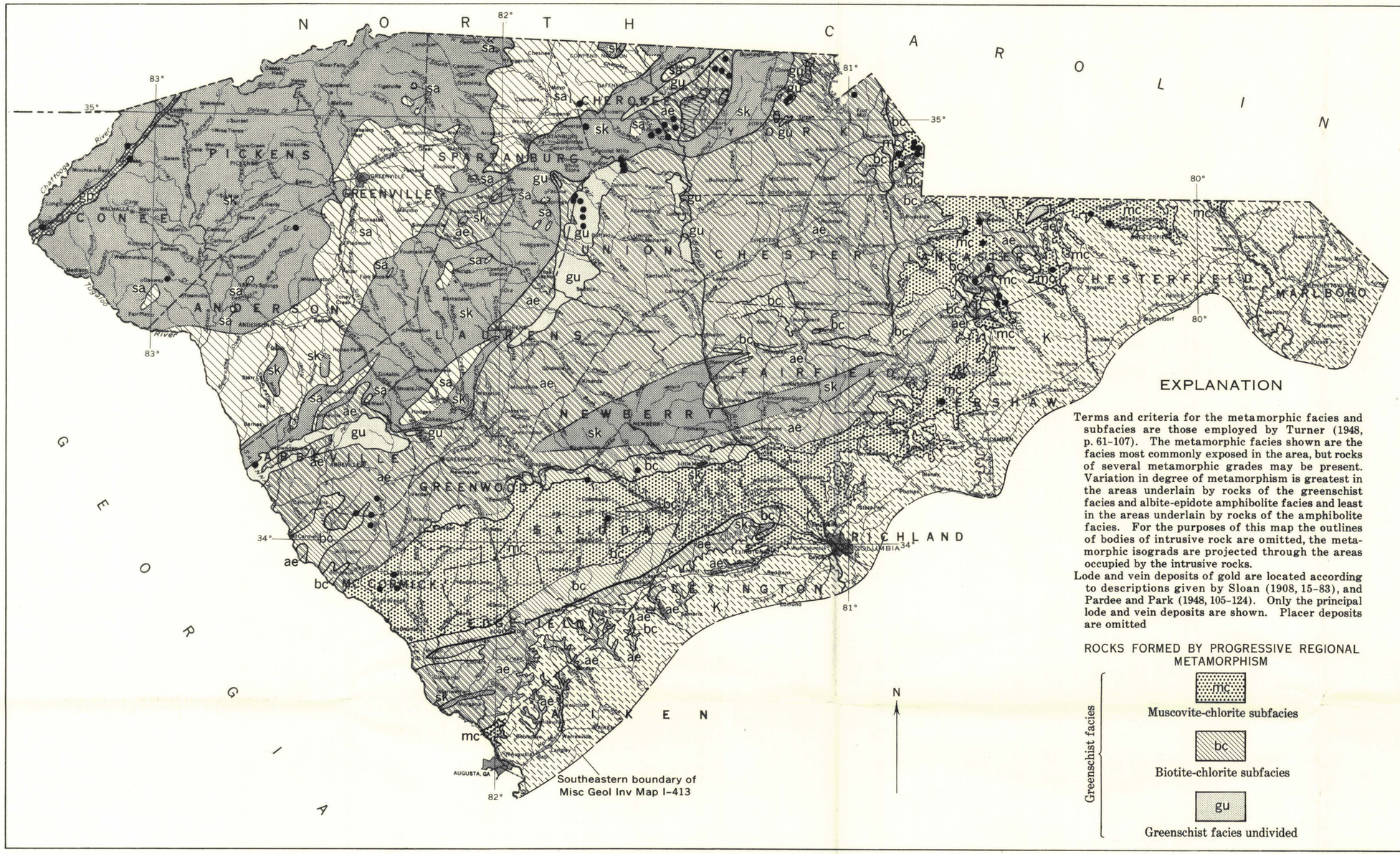

EXPLANATION

Terms and criteria for the metamorphic facies and subfacies are those employed by Turner (1948, p. 61-107). The metamorphic facies shown are the facies most commonly exposed in the area, but rocks of several metamorphic grades may be present. Variation in degree of metamorphism is greatest in the areas underlain by rocks of the greenschist facies and albite-epidote amphibolite facies and least in the areas underlain by rocks of the amphibolite facies. For the purposes of this map the outlines of bodies of intrusive rock are omitted, the metamorphic isograds are projected through the areas occupied by the intrusive rocks.

Lode and vein deposits of gold are located according to descriptions given by Sloan (1908, 15-83), and Pardee and Park (1948, 105-124). Only the principal lode and vein deposits are shown. Placer deposits are omitted

ROCKS FORMED BY PROGRESSIVE REGIONAL METAMORPHISM

Greenschist facies

- mc — Muscovite-chlorite subfacies
- bc — Biotite-chlorite subfacies
- gu — Greenschist facies undivided

Amphibolite facies

- ae — Albite-epidote amphibolite facies
- sk — Staurolite-kyanite subfacies
- sa — Sillimanite-almandine subfacies

ROCKS FORMED BY RETROGRESSIVE METAMORPHISM

- gp — Phyllonite of the greenschist facies

UNMETAMORPHOSED SEDIMENTARY ROCKS

- K — Unconsolidated Cretaceous rocks of the Coastal Plain
- Tr — Consolidated rocks of Late Triassic age

Isograd and contact

Isograd shows inferred boundary between metamorphic facies in the crystalline rocks; dotted where projected through areas underlain by intrusive rocks; contact separates unmetamorphosed sedimentary rocks from underlying crystalline rocks

Fault

Shown only where the fault is a boundary between rocks of different metamorphic facies or between metamorphosed and unmetamorphosed rocks; dotted where projected through areas underlain by intrusive rocks

Lode or vein deposit of gold or group of gold deposits

Base from U.S. Geological Survey State base map of South Carolina

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1965—G 64009

Compiled by W. C. Overstreet and H. Bell, III, 1958-60

MAP OF THE MAIN METAMORPHIC FACIES IN SOUTH CAROLINA

SCALE 1:1 000 000

25 0 25 50 75 MILES

25 0 25 50 75 KILOMETERS