84°15' 84°10' 84°05' 84°00'

34°20' 34°15' 34°10' 34°05' 34°00' 33°55'

84°25' 84°20'

SILVER CITY · HEARDVILLE · DUCKTOWN · CUMMING · BIRMINGHAM · CRABAPPLE · ALPHARETTA · MOUNTAIN PARK · ROSWELL · BUFORD DAM

ETOWAH RIVER · SETTENDOWN CREEK · SQUATTINDOWN CREEK · CHESTATEE RIVER · LITTLE RIVER · BIG CREEK · HAW CREEK · LAKE LANIER · CHATTAHOOCHEE RIVER

A — A' — B — B'

EXPLANATION

QUATERNARY

qal — Alluvium

ROCKS NORTHWEST OF THE BREVARD ZONE

Precambrian to Cambrian (?)

mq — Muscovite Quartzite — fine to medium-grained quartzite; original bedding varies from thin to medium thickness. Distinguished from fq by relative abundance of muscovite flakes, general absence of accessory minerals and almost complete absence of feldspar.

as abg — Aluminous Schist — sequence of variable thickness; dominant lithology is garnet and/or kyanite mica schist containing varying amounts of graphite. Coarse, biotite schist and amphibolite also occurs; along with medium-grained quartz-biotite gneiss and quartz-muscovite schist.

fq — Feldspathic Quartzite — fine to coarse-grained quartzite varying from highly feldspathic to almost pure. Outcrops form massive, vertical ledges at several localities. Accessory minerals include garnet, magnetite, hematite, tourmaline, and epidote.

bgn gns am gqh — Gneiss-Schist-Amphibolite (gns) — fine to medium-grained biotite gneiss, with delicate to massive foliation; metagray-wacke and medium to coarse-grained hornblende biotite gneiss are common; some coarse-grained biotite-garnet and biotite-quartz schist, and black, specularite quartzite; migma-tization highly variable; considerable amphibolite (am) in some localities, which ranges from massive garnetiferous, hornblende feldspar type, to finely laminated hornblende-feldspar type. Some areas of granitic and/or dioritic light-colored biotite-quartz-feldspar gneiss (bgn); minor garnet quartz hornblende rock.

MISCELLANEOUS ROCK UNITS

Probably Paleozoic

cas — Chlorite Amphibole Schist — schist containing hornblende, actinolite, chlorite and quartz. Fine-grained, but grades to coarser amphibolite in some localities.

css — Chloritic Sericite Schist — fine-to-medium-grained chloritic sericite-quartz schist. May be equivalent to "ss" below.

gbs — Garnetiferous Button Schist — coarse-grained garnetiferous schist composed of coarse muscovite and biotite flakes surrounding moderately sheared red garnets.

ss — Sericite Schist — fine-grained sericite-quartz schist, and sericite schist.

CATACLASTIC ROCKS AND MINOR INTRUSIVES

p — Pegmatite — small (generally less than five feet in width) bodies of potash feldspar, quartz, and muscovite.

qm — Quartzite Mylonite — mylonite and protomylonite composed entirely of quartz.

d — Diabase

ggn — Granitic Gneiss

contact, approximate

fault; movements indicated by arrows

fold axis; anticline, overturned

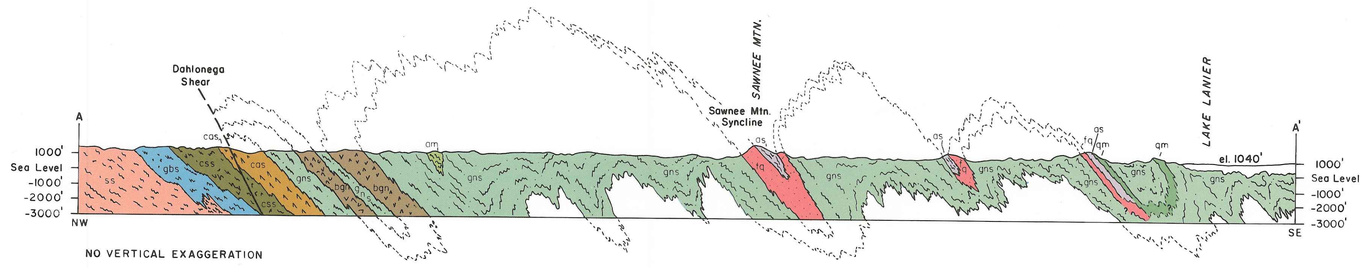
fold axis; anticline, overturned

fold axis, syncline, overturned

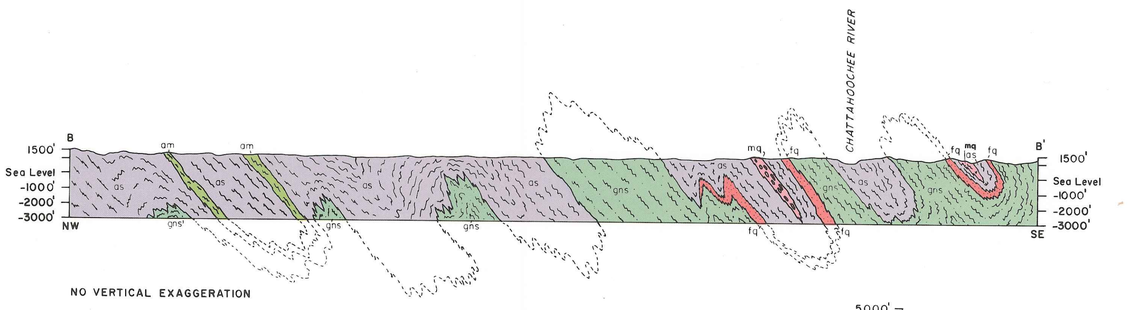
strike and dip of foliation

strike and plunge of mineral lineation

strike and plunge of fold lineation (fold axis)



GEOLOGIC CROSS SECTION ALONG LINE A-A'
FORSYTH COUNTY, GEORGIA



GEOLOGIC CROSS SECTION ALONG LINE B-B'
FULTON COUNTY, GEORGIA

GEOLOGIC MAP OF FORSYTH AND NORTH FULTON COUNTIES, GEORGIA

by
Joseph B. Murray

1 0 1 2 3
Scale in Miles

1973

Base Prepared From Georgia Depatment of Transportation County Highway Maps. Geology Compiled on U.S.G.S. 1:24,000 Topographic Maps

Cartography by
Ronald Owens and Elaine Blue

Williams & Heintz Map Corporation, Washington, D. C. 20027