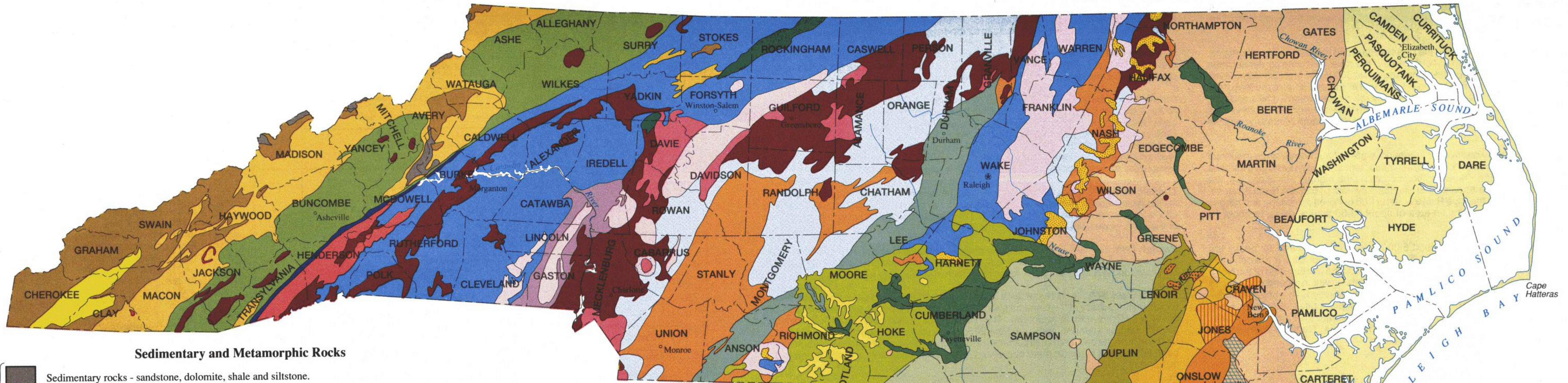


GENERALIZED GEOLOGIC MAP OF NORTH CAROLINA



Sedimentary and Metamorphic Rocks

- Late Proterozoic to Early Paleozoic**
 - Sedimentary rocks - sandstone, dolomite, shale and siltstone.
 - Metasedimentary and metavolcanic rocks of the Kings Mountain belt - schist, phyllite, marble, metavolcanic rock, quartzite and gneiss.
 - Metamorphic rocks of the Inner Piedmont, Milton belt and Raleigh belt - gneiss, schist and amphibolite.
 - Metavolcanic rocks of the Carolina slate belt and eastern slate belt - felsic metavolcanic rock with mafic and intermediate volcanic rock.
 - Metasedimentary rocks of the Carolina slate belt and eastern slate belt - metamudstone, argillite and epiclastic rock.
- Late Proterozoic**
 - Clastic and carbonate metasedimentary rocks of the Murphy belt - schist, phyllite, quartzite, marble, slate and metasiltstone.
 - Brevard fault zone - schist, marble and phyllonite.
 - Clastic metasedimentary and metavolcanic rocks of the Ocoee Supergroup, Grandfather Mountain Formation, Mount Rogers Formation and quartzite of the Sauratown Mountains anticlinorium - slate, metasiltstone, schist, metagraywacke, calc-silicate granofels, quartzite and felsic metavolcanic rock.
 - Clastic metasedimentary rock and mafic and felsic metavolcanic rock of the Ashe Metamorphic Suite, Tallulah Falls Formation and Alligator Back Formation - gneiss, schist, metagraywacke, amphibolite and calc-silicate granofels.
- Middle Proterozoic**
 - Felsic gneiss derived from sedimentary and igneous rocks in the northern outcrop area; biotite gneiss in the southern outcrop area; locally migmatitic and mylonitic. Locally and variably interlayered with amphibolite, calc-silicate granofels and rare marble. Intruded by Late Proterozoic mafic and felsic plutons.

Intrusive Rocks

- Middle Paleozoic to Late Paleozoic**
 - Granitic rocks - unfoliated to weakly foliated.
 - Syenite - Concord ring dike.
- Late Proterozoic to Middle Paleozoic**
 - Metamorphosed gabbro and diorite - foliated to weakly foliated.
 - Metamorphosed granitic rocks - foliated to weakly foliated; locally migmatitic.
 - Henderson Gneiss - uneven-grained monzonitic to granodioritic.
 - Meta-ultramafic rocks.

Sedimentary Rocks

- Quaternary**
 - Surficial deposits, undivided - sand, clay and gravel. (Shown only below 25 feet of elevation.)
 - Pinehurst Formation - unconsolidated sand.
 - Terrace deposits and upland sediment - gravel, clayey sand and sand.
 - Waccamaw Formation - fossiliferous sand with silt and clay.
 - Yorktown Formation and Duplin Formation, undivided - Yorktown Formation- fossiliferous clay and sand. Duplin Formation- shelly sand, sandy marl and limestone.
- Tertiary**
 - Belgrade Formation, undivided - Pollocksville Member- oyster-shell mounds in sand matrix. Haywood Landing Member- fossiliferous clayey sand.
 - River Bend Formation - sandy, molluscan-mold limestone.
 - Castle Hayne Formation - Spring Garden Member- molluscan-mold limestone.
 - Comfort Member and New Hanover Member, undivided - Comfort Member - limestone with bryozoan and echinoid skeletons. New Hanover Member - phosphate-pebble conglomerate.
 - Beaufort Formation, undivided - Unnamed upper member - glauconitic, fossiliferous sand and silty clay. Jericho Run Member - siliceous mudstone with sandstone lenses.
- Triassic**
 - Dan River Group, undivided - Stoneville Formation - conglomerate, sandstone and mudstone. Cow Branch Formation - mudstone. Pine Hall Formation - sandstone, mudstone and conglomerate.
 - Chatham Group, undivided - Sanford Formation - conglomerate, sandstone and mudstone. Cumnock Formation - sandstone and mudstone. Pekin Formation - conglomerate, sandstone and mudstone.
- Cretaceous**
 - Peedee Formation - marine sand, clayey sand and clay.
 - Black Creek Formation - lignitic sand and clay.
 - Middendorf Formation - sand, sandstone and clay.
 - Cape Fear Formation - sandstone and sandy mudstone.

50 Miles



1991
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