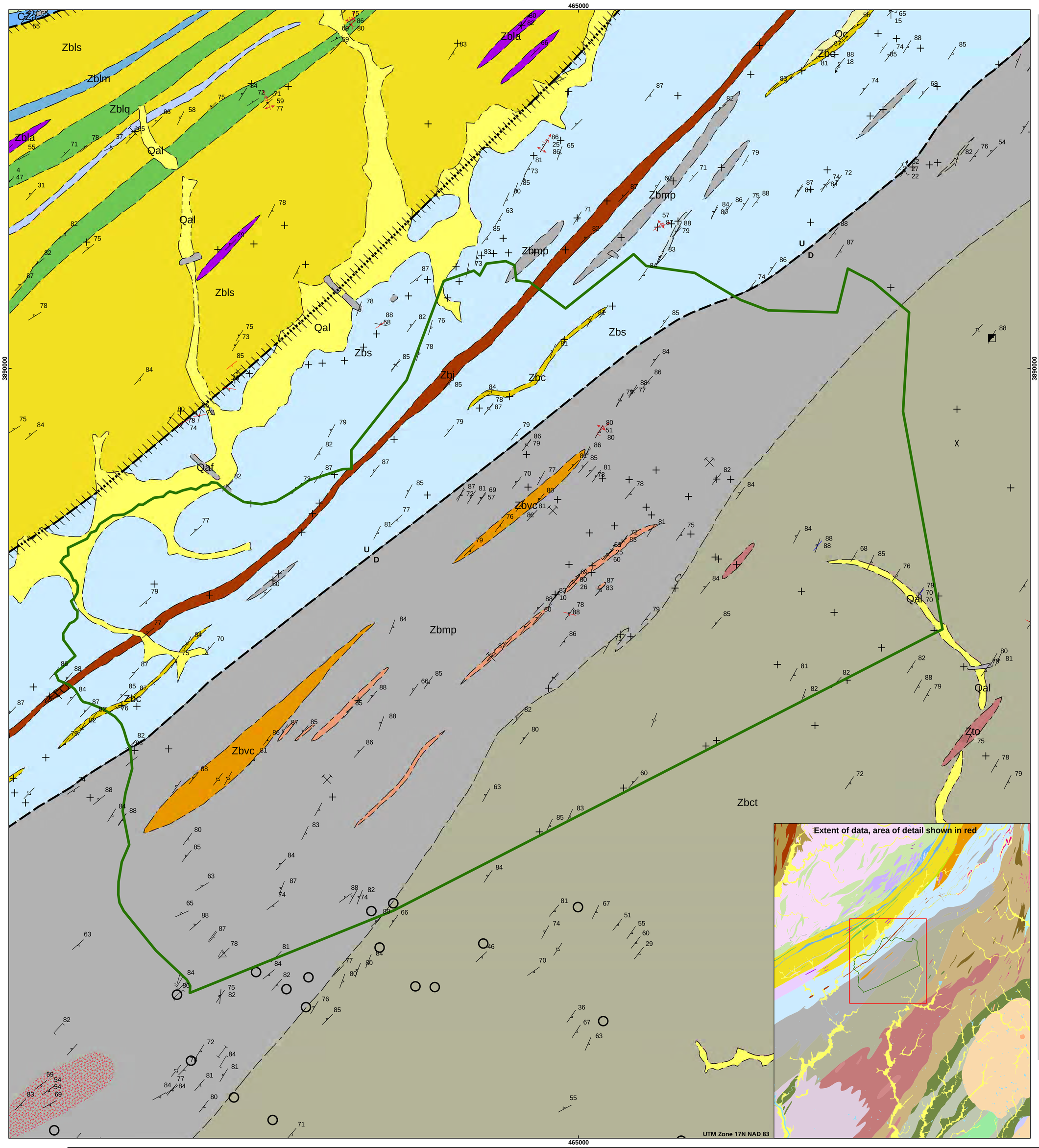
# Geologic Map of Kings Mountain National Military Park




**NPS Boundary**

**Geologic Attitude and Observation Localities**
- strike and dip of inclined beds
- strike of vertical beds
- strike and dip of inclined foliation
- strike of vertical foliation
- strike and dip of inclined cleavage
- strike and dip of inclined layering (flow, compositional)
- strike and dip of inclined axial plane of fold
- trend and plunge of inclined minor fold axis
- strike and dip of inclined vein
- strike of vertical vein
- strike of vertical cleavage
- trend and plunge of inclined crenulation
- strike and dip of inclined schistosity
- strike of vertical schistosity
- strike and dip of inclined shear planes
- strike and dip of minor fault
- trend and plunge of mineral elongation
- strike of vertical minor fault

**Other Geologic Observation Localities**
- diabase outcrop
- diabase outcrop or float
- float
- granite outcrop
- outcrops of bedrock as float
- quartz float

**Mine Point Features**
- prospect
- adit
- shaft
- open pit mine
- quarry

**Fault and Fold Symbology**
- fold plunge arrow head
- fault up 'U' indicator
- fault down 'D' indicator
- antiform symbol
- synform symbol
- overturned antiform symbol
- overturned synform symbol
- fault block movement direction arrows (right-lateral)

**Faults**
- known or certain
- approximate
- concealed

**Mine Area Feature Boundaries**
- approximate

**Geologic Contacts**
- known or certain
- approximate
- concealed
- quadrangle boundary
- water or shoreline
- subaqueous (inferred)

**Mine Area Features**
- area mine
- mine dump

**Alteration and Metamorphic Areas**
- siliceous alteration

**Deformation Areas**
- shear zone

**Dike Swarms**
- pegmatite swarm

**Surficial Units**
- Qaf - Artificial Fill
- Qal - Alluvium
- Qc - Colluvium

**Geologic Units**
- Water
- Qme - Dam Material
- Qal - Alluvium
- PNhs - High Schoals Granite
- PNy - York Pluton
- PNyf - York Pluton - Fine Grained Leucocratic Facies
- Mcp - Coarse Grained Granite and Pegmatite
- Mc - Muscovite-Biotite Granite
- Mp - Granite Pegmatite
- Ms - Spodumene Pegmatite
- Otg - Toluca Granite
- CZa - Amphibolite
- CZbg - Muscovite-Biotite Gneiss
- CZs - Muscovite Schist
- PZZgd - Metadiorite and Metagabbro
- Zambgn - Amphibolite and Biotite Gneiss
- Zms - Mica Schist
- Zmto - Metatonalite
- Zq - Quartzite
- Zto - Metatonalite
- Ztom - Metatonalite with Mafic Layers
- Ztrs - Interlayered Mafic and Felsic Gneiss -- South (Metatrondhjemite)
- Ztr - Metatrondhjemite and Amphibole Gneiss
- Zts - Silicified Metatrondhjemite
- Zbla - Hornblende Gneiss and Amphibolite
- Zblg - Gaffney Marble Member
- Zblm - Marble Member of Dixon Branch
- Zblq - Laminated Micaceous Quartzite
- Zbls - Phyllitic Metasiltstone
- Zblc - Chlorite Phyllonite
- Zbdt - Metadacite and Metatrondhjemite
- Zbs - Quartz-Sericite Phyllite and Schist
- Zbd - Draytonville Metaconglomerate Member
- Zbj - Jumping Branch Manganiferous Member
- Zbaq - Aluminous Quartzite
- Zkq - Kyanite Quartzite
- Zbc - Dixon Gap Metaconglomerate Member
- Zbmp - Mottled Phyllitic Metatuff
- Zbct - Plagioclase-Crystal Metatuff
- Zbgs - Greenstone
- Zbfs - Felsic Schist and Gneiss (Metafelsite)
- Zbht - Metavolcanic Hornblende Gneiss
- Zbmc - Crowders Creek Metaconglomerate Member
- Zbmps - Siliceous Metatuff
- Zbmq - Micaceous Quartize
- Zbms - Biotite-Muscovite Schist
- Zbvc - Volcanic Metaconglomerate

0 1 2 Kilometers

0 1 2 Miles

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This map graphically presents digital geologic data prepared as part of the NPS Geologic Resources Division's Geologic Resources Inventory. The source maps used in creation of the digital geologic data product were:

Howard, S. 2004. Geologic Map of the Kings Creek quadrangle, Cherokee and York Counties, South Carolina. Scale 1:24,000. SCGS, GQM-16.

Horton, J., Wright. 2006. Geologic Map of the Kings Mountain and Grover quadrangles, Cleveland and Gaston counties, North Carolina, and Cherokee and York counties, South Carolina. Scale 1:24,000. USGS, OFR 2006 1238.

Nystrom, P.G., Jr. 2003. Geologic Map of the Filbert quadrangle, York County, South Carolina. Scale 1:24,000. SCGS, GQM-25.

Digital geologic data and cross sections for Kings Mountain National Military Park, and all other digital geologic data prepared as part of the Geologic Resources Inventory, are available online at the NPS Data Store: http://science.nature.nps.gov/nrdata/

Produced by the Geologic Resources Inventory

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