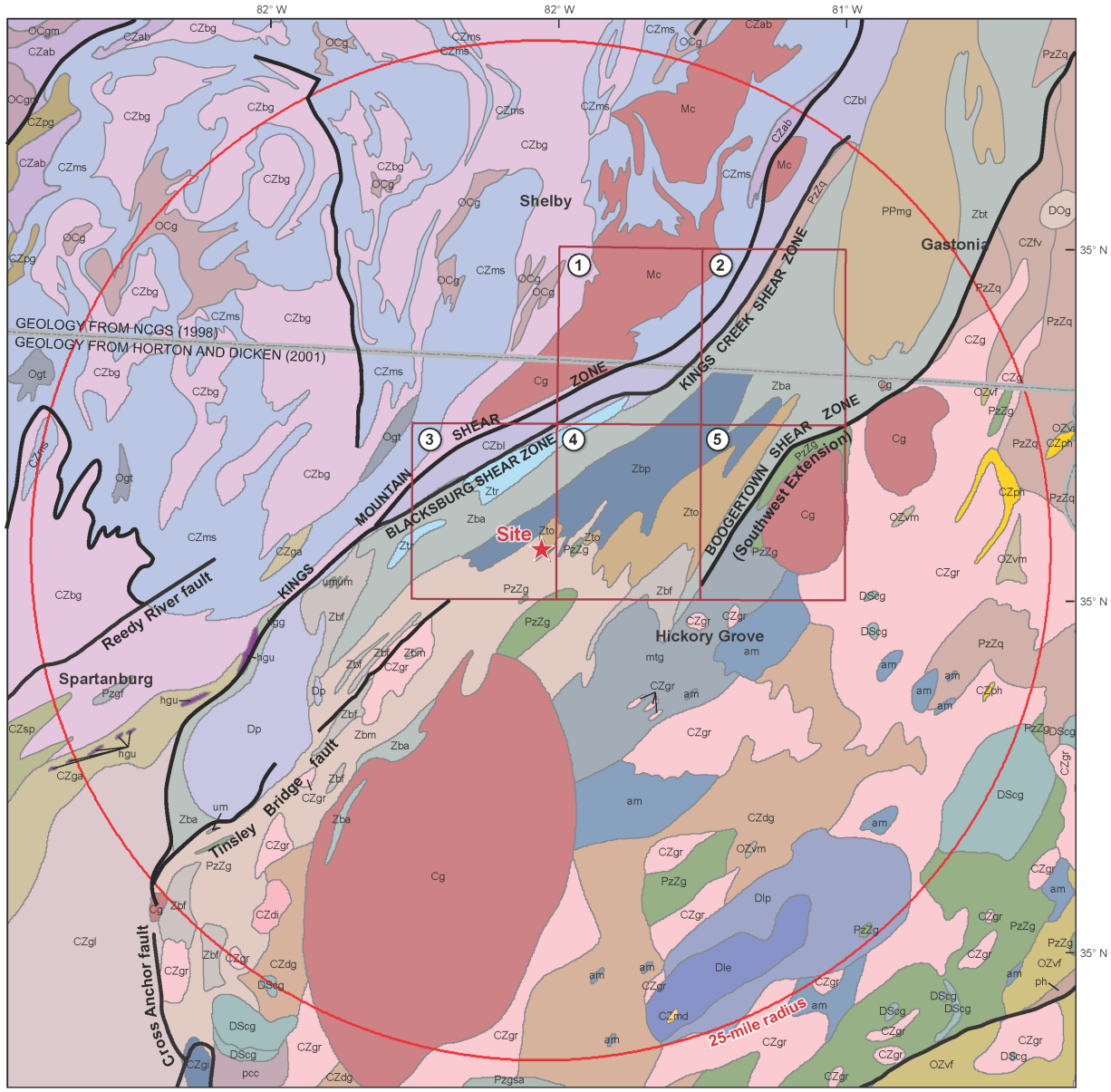
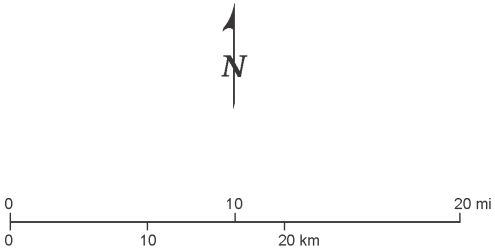


Modified from Horton and Dicken (2001) and NC Geological Survey (1998)



(See figure 2.3-8 Sheet 2 for explanation)

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Area Geologic Map

FIGURE 2.3-8
(Sheet 1 of 2)

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Explanation

Modified from Horton and Dicken (2001)

Late Paleozoic Shear Zones

- ph — Phyllonite and phyllonitic schist (Late Paleozoic)

Plutonic And Associated Igneous Rocks

Late Paleozoic Rocks

- Cg — Granite (Carboniferous and Permian)

Middle Paleozoic Plutonic Rocks

- DScg — Gabbro (Devonian to Silurian)
- Dp — Pacolet granite (Devonian)
- Dle — Equigranular granite (Devonian)
- Dlp — Porphyritic granite (Devonian)
- Pzgf — Gneissic biotite granite to granodiorite (Paleozoic)
- Ogt — Granite and associated metagranites (Ordovician?)

Plutons of Undetermined Affinity and Age

- Pzgsa — Granite (Paleozoic?)
- CZgr — Metagranite to metagranodiorite (Cambrian to Neoproterozoic)
- CZdi — Diorite (Cambrian to Neoproterozoic)

Early Paleozoic-Neoproterozoic Plutons and Subvolcanic Complexes

- mtg — Biotite metatonalite and granodiorite (Paleozoic or Neoproterozoic?)
- Ztr — Metatrondhjemite (Neoproterozoic?)
- Zto — Metatonalite (Neoproterozoic)
- PzZq — Metamorphosed quartz diorite to diorite (Paleozoic or Neoproterozoic?)
- CZmd — Metadiorite (Cambrian or Neoproterozoic?)
- PzZg — Metagabbro and minor metadiorite (Middle Paleozoic to Neoproterozoic?)
- CZdg — Metadiorite and minor metagabbro, Lockhart metadiorite (Cambrian or Neoproterozoic?)

Mafic-Ultramafic Complexes and Ultramafic Rocks

- um — Ultramafic rock, metamorphosed (Paleozoic or Neoproterozoic)
- hgg — Metagabbro
- hgu — Metamorphosed ultramafic rocks—Hornblendite, pyroxenite, serpentinite, and talc schist

Layered and Stratified Metamorphic Rocks

Carolina Slate Belt and Charlotte Belt

- OZvi — Mafic to felsic metavolcanic rocks (Ordovician to Neoproterozoic?)
- OZvf — Felsic metavolcanic rocks and layered felsic gneiss (Ordovician to Neoproterozoic?)
- OZvm — Mafic to intermediate metavolcanic rocks (Ordovician to Neoproterozoic?)
- CZph — Quartz-sericite phyllite and schist (Cambrian to Neoproterozoic?)
- am — Amphibolite and amphibole gneiss (Paleozoic to Neoproterozoic)

Battleground And Blacksburg Formations

- CZbl — Sericite schist and phyllite, sericitic quartzite, marble, amphibolite, and calc-silicate rock
- Zba — Metagabbro grading into amphibolite (Paleozoic?)
- Zbp — Schistose to phyllitic volcaniclastic rocks
- Zbf — Felsic metavolcanic rocks
- Zbm — Mafic to intermediate metavolcanic rocks

Central Peidmont Allochthon

- pcc — Biotite-quartz-feldspar gneiss having interlayers of amphibolite and metagranite
- CZgi — Biotite gneiss (Cambrian to Neoproterozoic?)
- CZgl — Biotite-quartz-plagioclase gneiss (Cambrian or Neoproterozoic?)
- CZga — Amphibolite
- CZsp — Sillimanite schist and sillimanite-mica schist (Cambrian or Neoproterozoic?)
- CZms — Sillimanite-mica schist and muscovite-biotite schist (Cambrian or Neoproterozoic?)
- CZbg — Biotite gneiss and muscovite-biotite gneiss (Cambrian or Neoproterozoic?)

Modified from NCGS (1998) and Horton and Dicken (2001)

Metamorphic Rocks

- CZbg — Biotite gneiss and schist
- CZms — Mica schist
- CZab — Amphibolite and biotite gneiss
- CZpg — Inequigranular biotite gneiss
- CZbl — Pacolet granite
- CZfv — Felsic metavolcanic rock
- CZg — Metamorphosed granitic rock
- Zbt — Metagabbro grading into amphibolite

Intrusive Rocks

- Mc — Granite
- OCgm — Migmatitic granitic gneiss
- OCg — Metamorphosed granitic rock
- PPmg — Foliated to massive granitic rock
- PzZq — Metamorphosed quartz diorite
- DOg — Granitic rock

Faults modified from Hibbard et al. (2006)

Other Mapped Quandrangles, not shown

1. Kings Mountain 7.5 minute quadrangle, Horton (2006), USGS OFR 2006-1238
2. Grover 7.5 minute quadrangle, Horton (2006), USGS OFR 2006-1238
3. Blacksburg South 7.5 minute quadrangle, Nystrom (2004), SC Geological Survey
4. Kings Creek 7.5 minute quadrangle, Howard (2004), SC Geological Survey
5. Filbert 7.5 minute quadrangle, Nystrom (2003), SC Geological Survey

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Area Geologic Map

FIGURE 2.3-8
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