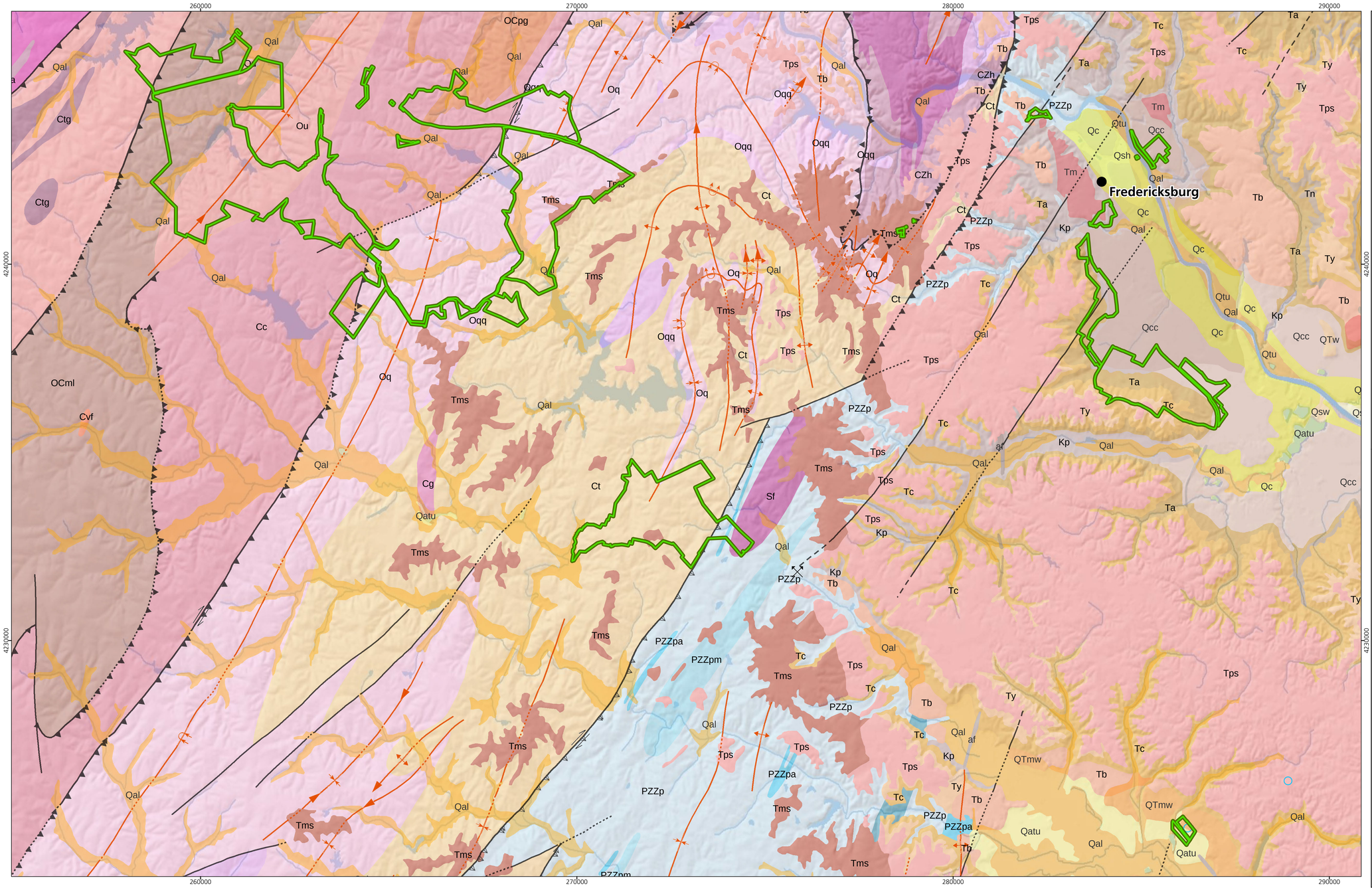
Overview of Digital Geologic Data for Fredericksburg and Spotsylvania County Battlefields Memorial NMP

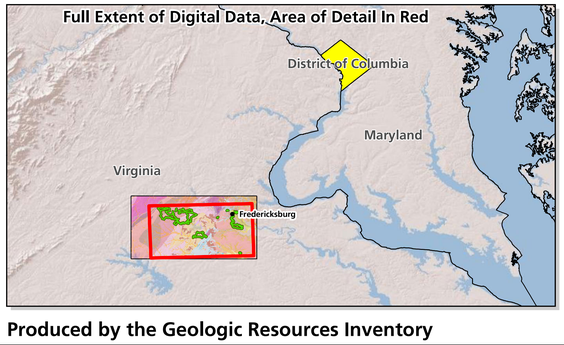


Surficial Units

- Qaf - Artificial fill
- Qs - Sand
- Qsw - Swamp deposits
- Qa - Alluvium
- Qtu - Tab Formation, undivided
- Qt - Alluvial terrace deposits, undivided
- Qsh - Shirley Formation
- Qc - Chuckatuck Formation
- Qcc - Charles City Formation
- QTw - Windsor Formation
- QTmw - Windsor Formation and (or) Moorings Unit
- Tm - Moorings Unit

Geologic Units

- Tb - Bacons Castle Formation
- Tps - Sand and gravel
- Ty - Yorktown Formation
- Tms - Sand and gravel
- Tc - Calvert Formation, undivided
- Tn - Nanjemoy Formation, undivided
- Ta - Aquia Formation
- Kp - Potomac Formation
- PMfi - Falmouth Intrusive Suite
- Sf - Falls Run Granite
- Oq - Quantico Formation
- Oqq - Quantico Formation, quartzite
- Ou - Metasedimentary rocks, undiviided
- OCmIII - Mine-Run Complex, Melange Zone III
- OCmII - Mine-Run Complex, Melange Zone II
- OCmI - Mine-Run Complex, Melange Zone I
- OCpg - Plagiogranite of the Richland Run pluton
- Cc - Chopawamsic Formation
- Ct - Ta River Metamorphic Suite
- Cg - Amphibole metagrabbro
- Cvf - Felsic metavolcanic rocks
- Ctg - Altered tonalite and granodiorite granatoid blocks
- CZ - Metamorphic rocks
- PZZp - Po River Metamorphic Suite, biotite gneiss and schist
- PZZpm - Po River Metamorphic Suite, garnet-muscovite quartzofeldspathic gneiss
- PZZpa - Po River Metamorphic Suite, amphibolite and amphibole gneiss
- PZZpmb - Po River Metamorphic Suite, magnetite-bearing biotite gneiss



UTM Zone 18N NAD 83

scale greater than source data

0 1 2 3 4 5 6 Miles

0 2 4 6 8 10 Kilometers

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

Mixon, Robert B., Louis Pavlides, David S. Powars, Albert J. Froelich, Robert E. Weems, J. Stephen Schindler, Wayne L. Newell, Lucy E. Edwards and Lauck W. Ward. 2000. *Geologic Map of the Fredericksburg 30' x 60' Quadrangle, Virginia and Maryland.* Scale 1:100,000. USGS, I-2607.

Digital geologic data and cross sections for Geologic Map of Fredericksburg and Spotsylvania County Battlefields Memorial 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/

NPS Boundary

Mine Point Features
- quarry
- well

Fault and Fold Symbology
- antiform
- fold plunge arrow head
- overturned antiform
- overturned synform
- right-lateral fault block movement arrow
- syncline
- synform

Folds
- synform, known or certain
- synform, concealed
- syncline, known or certain
- overturned synform, known or certain
- overturned synform, concealed
- overturned antiform, known or certain
- overturned antiform, concealed
- antiform, known or certain
- antiform, concealed

Faults
- unknown offset/displacement, known or certain
- unknown offset/displacement, inferred
- unknown offset/displacement, concealed
- thrust right-lateral strike-slip fault, known or certain
- thrust right-lateral strike-slip fault, concealed
- thrust fault, known or certain
- thrust fault, concealed