Virgin Islands National Park
U.S. Virgin Islands

National Park Service
U.S. Department of the Interior

Overview of Digital Geologic Data for Virgin Islands National Park

310000 315000 320000 325000

2030000 2025000

NPS Boundary

Surficial Contacts
- known or certain
- approximate
- water/shoreline

Geologic Contacts
- known or certain
- approximate
- concealed
- gradational
- water/shoreline
- scratch boundary

Folds
- syncline, know or certain
- anticline, known or certain
- anticline, approximate

Faults
- known or certain
- approximate
- concealed

Linear Dikes
- Td - diabase, gabbro, and diorite
- Kcc - Careen Hill Intrusive Suite, coarsely porphyritic keratophyre

Geologic Attitude Observations Localities and Map Symbology
- U — fault up 'U' indicator
- D — fault down 'D' indicator
- vertical fault plane
- fault block movement direction arrow (right-lateral)
- fault block movement direction arrow (left-lateral)
- trend of minor horizontal syncline
- anticline
- syncline



N

0 1 2 3 Miles

0 2 4 6 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:

Rankin, Douglas W. 2002. *Geology of St. John, U.S. Virgin Islands.* Scale 1:24,000. Professional Paper 1631. U.S. Geological Survey.

Digital geologic data and cross sections for Virgin Islands National 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/

scale greater than the source data

UTM Zone 20N NAD 83

Geologic Units
- Qs - surficial deposits
- Tr - Red Hook Tonalite Porphyry
- Tl - hornblende lamprophyre
- Tt - biotite-hornblende tonalite
- Td - diabase, gabbro and tonalite
- Ktm - Tutu Formation, Mandal Member
- Ktmc - Tutu Formation, Mandal Member, Congo Cay Limestone Lens
- Ktml - Tutu Formation, Mandal Member, marble, calc-silicate rock, and marble conglomerate
- Ktp - Tutu Formation, Picara Member
- Ktpl - Tutu Formation, Picara Member, marble conglomerate and calc-silicate-rich beds
- Ktpv - Tutu Formation, Picara Member, porphyritic meta-andesite
- Ko - Outer Brass Limestone
- Kl - Louisenhoj Formation
- Kla - Louisenhoj Formation, andesite lava
- Klb - Louisenhoj Formation, basalt
- Klm - Lameshur Volcanic-Intrusive Complex, undivided
- Kct - Careen Hill Intrusive Suite, trondjhemite
- Kcc - Careen Hill Intrusive Suite, coarsely porphyritic keratophyre
- Kcp - Careen Hill Intrusive Suite, porphyritic keratophyre
- Kca - Careen Hill Intrusive Suite, phenocryst-poor keratophyre
- Kcf - Careen Hill Intrusive Suite, plagioclase-phyric keratophyre
- Kcm - Careen Hill Intrusive Suite, gabbro
- Kwp - Water Island Formation, porphyritic keratophyre
- Kwa - Water Island Formation, phenocryst-poor keratophyre
- Kwf - Water Island Formation, plagioclase-phyric keratophyre
- Kws - Water Island Formation, basalt and basaltic andesite
- Kww - Water Island Formation, volcanic wacke and bedded tuff
- Kwr - Water Island Formation, radiolarian chert