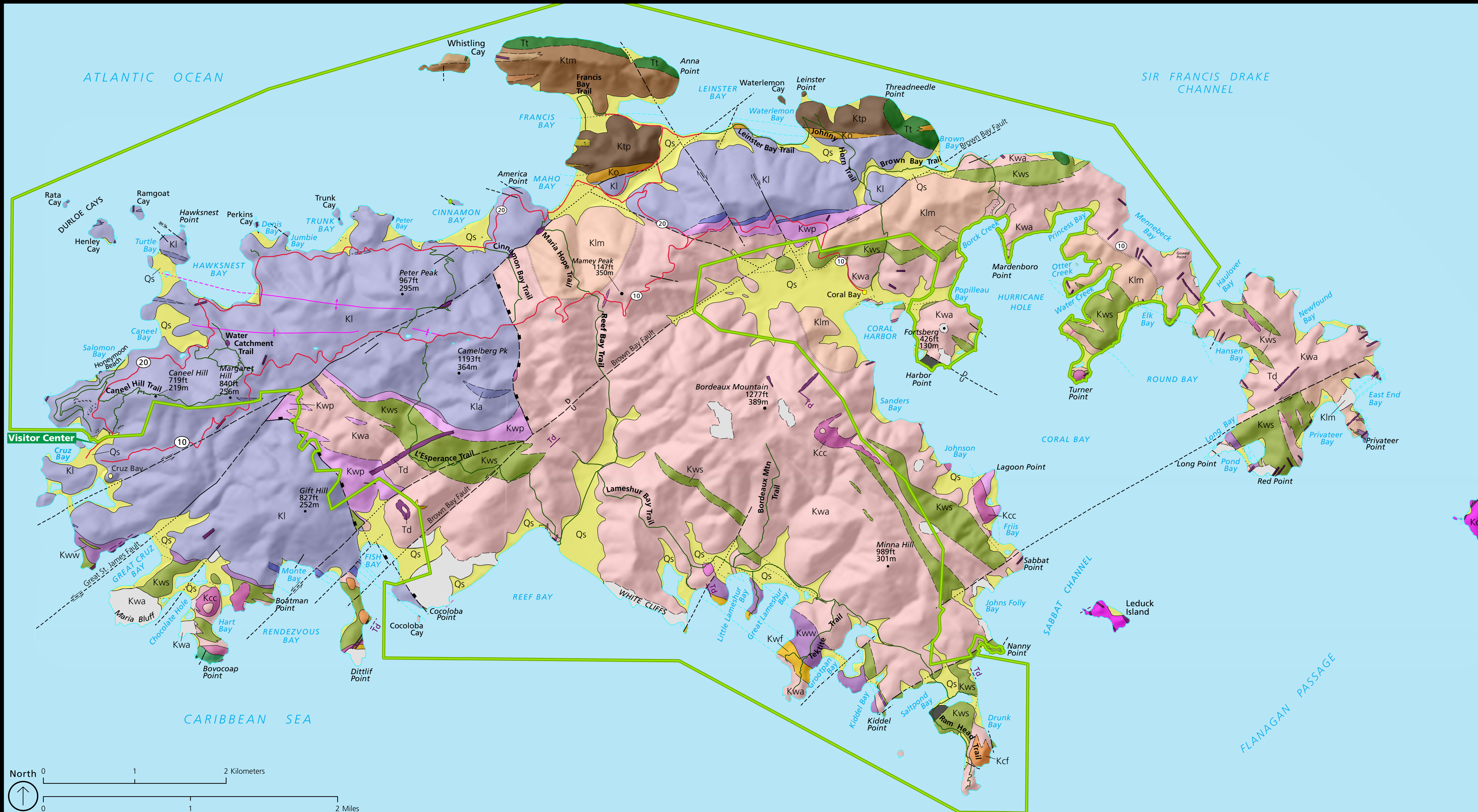


Geologic Map of Virgin Islands National Park

St. John, Virgin Islands

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science



NPS Boundary

Infrastructure

- Cities
- Trails
- Highways

Folds

solid where known or certain; dotted where concealed; dashed where inferred

anticline syncline

Faults

solid where known or certain; long-dashed where approximate; dotted where concealed; short-dashed where inferred

left-lateral strike-slip fault right-lateral strike-slip fault

unknown offset/displacement high-angle reverse fault

ductile fault

Alteration and Metamorphic Area Boundaries

— solid where known or certain; dashed where approximate

Alteration and Metamorphic Areas

area of hydrothermal alteration

Linear Dikes

solid where known or certain; dotted where concealed; short-dashed where inferred

— Td - Diabase, gabbro, and diorite (Tertiary)

— Kcc - Lameshur Volcanic-Intrusive Complex, Careen Hill Intrusive Suite, coarsely porphyritic keratophyre (Early Cretaceous)

Dike Swarm Boundaries

solid where known or certain; dashed where approximate

Dike Swarms

— Kcsd - Lameshur Volcanic-Intrusive Complex, Careen Hill Intrusive Suite, sheeted dike complex (Early Cretaceous)

Geologic Contacts

— solid where known or certain; long-dashed where approximate; short-dashed where concealed; hashed where gradational

— water or shoreline, solid where known or certain; dashed where subaqueous (inferred)

Geologic Units

- water
- Qs Surficial deposits (Quaternary)
- Tt Red Hook Tonalite Porphyry (Tertiary)
- Tl Hornblende lamprophyre (Tertiary)
- Ti Biotite-hornblende tonalite (late Eocene)
- Td Diabase, gabbro, and diorite (Tertiary)
- Tutu Formation
 - Ktm Mandal Member (Upper Cretaceous)
 - Ktmc Mandal Member, Congo Cay Limestone Lens (Upper Cretaceous)
 - Ktmi Mandal Member, marble, calc-silicate rock, and marble conglomerate (Upper Cretaceous)
 - Ktpa Picara Member (Upper Cretaceous)
 - Ktpi Picara Member, marble conglomerate and calc-silicate-rich beds north of Maho Point (Upper Cretaceous)
 - Ktpr Picara Member, medium-dark-gray porphyritic meta-andesite south of Maho Point (Upper Cretaceous)
 - Ko Outer Brass Limestone (Upper Cretaceous)
- Louisenhoj Formation
 - Kl undivided (Cretaceous)
 - Kla porphyritic locally vesicular andesite lava (Cretaceous)
 - Klb porphyritic locally amygdaloidal basalt and pillow basalt (Cretaceous)
- Lameshur Volcanic-Intrusive Complex
 - Klm undivided (Lower Cretaceous)
- Careen Hill Intrusive Suite
 - Kct trondjemite (Early Cretaceous)
 - Kcc coarsely porphyritic keratophyre (Early Cretaceous)
 - Kcp porphyritic keratophyre (Early Cretaceous)
 - Kca phenocryst-poor keratophyre (Early Cretaceous)
 - Kcf plagioclase-phyric keratophyre (Early Cretaceous)
 - Kcm gabbro (Early Cretaceous)
- Water Island Formation
 - Kwp porphyritic keratophyre (Lower Cretaceous)
 - Kwa phenocryst-poor keratophyre (Lower Cretaceous)
 - Kwf plagioclase-phyric keratophyre (Lower Cretaceous)
 - Kws basalt and basaltic andesite (Lower Cretaceous)
 - Kww volcanic wacke and bedded tuff (Lower Cretaceous)
 - Kwr radiolarian chert (Lower Cretaceous)
- area (on land) unmapped



This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations.

Source Map
Rankin, D.W. 2002. Geology of St. John, U.S. Virgin, Islands (scale 1:24,000). Professional Paper 1631. US Geological Survey, Reston, Virginia.

Source Scale 1:24,000. According to US National Map accuracy standards, features are within 12 m (40 ft) of their true location.

Poster Layout: Jakob Suri and Georgia Hybels (Colorado State University).

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All Geologic Resources Inventory geologic map data and publications are available at <http://go.nps.gov/gripubs>.