

Geologic Map of Grand Portage National Monument

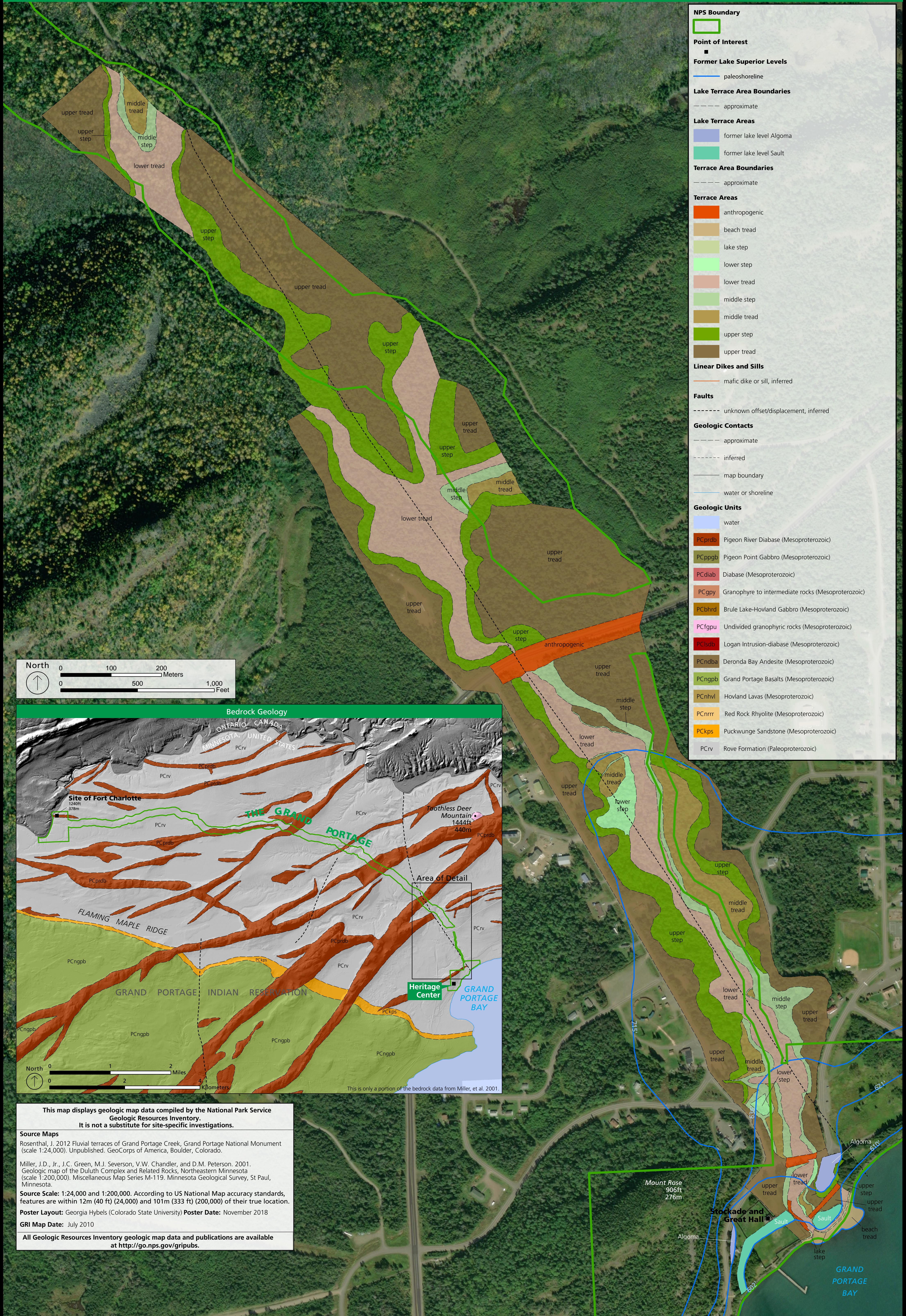
Minnesota

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science



Terrace Areas



NPS Boundary
 NPS Boundary

Point of Interest
 Point of Interest

Former Lake Superior Levels
 paleoshoreline

Lake Terrace Area Boundaries
 approximate

Lake Terrace Areas
 former lake level Algoma
 former lake level Sault

Terrace Area Boundaries
 approximate

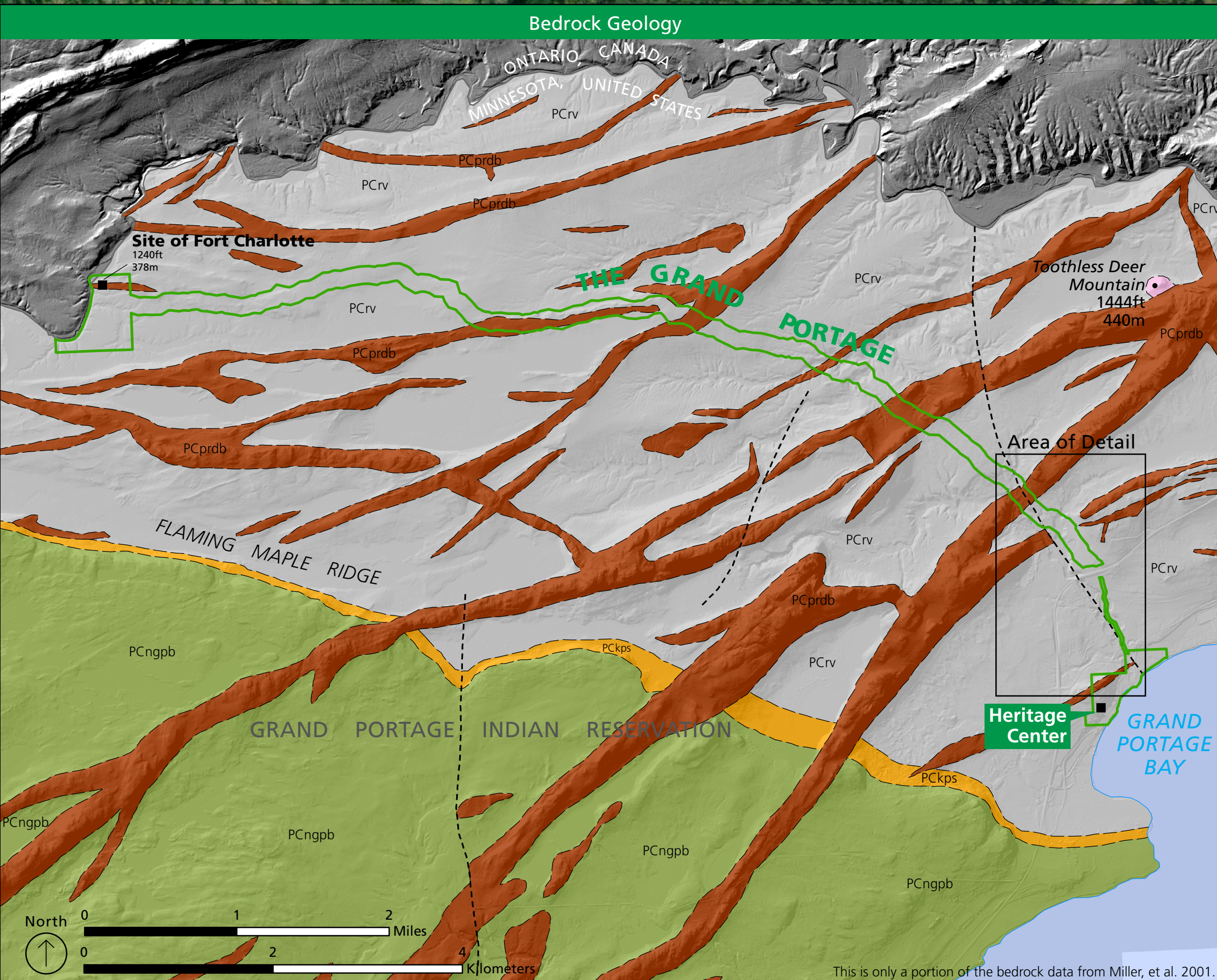
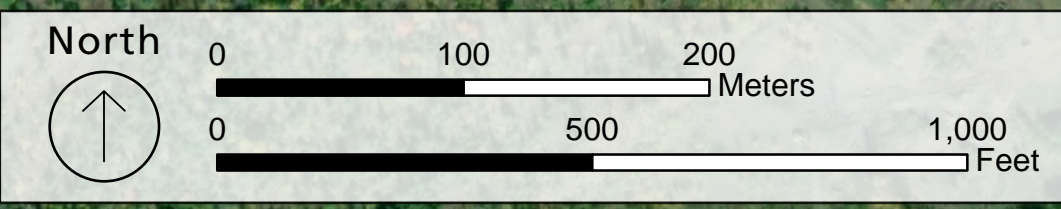
Terrace Areas
 anthropogenic
 beach tread
 lake step
 lower step
 lower tread
 middle step
 middle tread
 upper step
 upper tread

Linear Dikes and Sills
 mafic dike or sill, inferred

Faults
 unknown offset/displacement, inferred

Geologic Contacts
 approximate
 inferred
 map boundary
 water or shoreline

Geologic Units
 water
 PCprdb Pigeon River Diabase (Mesoproterozoic)
 PCppgb Pigeon Point Gabbro (Mesoproterozoic)
 PCdiab Diabase (Mesoproterozoic)
 PCgpy Granophyre to intermediate rocks (Mesoproterozoic)
 PCbhrd Brule Lake-Hovland Gabbro (Mesoproterozoic)
 PCtgbu Undivided granophyre rocks (Mesoproterozoic)
 PClsdb Logan Intrusion-d diabase (Mesoproterozoic)
 PCndba Deronda Bay Andesite (Mesoproterozoic)
 PCngpb Grand Portage Basalts (Mesoproterozoic)
 PCnhvl Hovland Lavas (Mesoproterozoic)
 PCnrrr Red Rock Rhyolite (Mesoproterozoic)
 PCkps Puckwunge Sandstone (Mesoproterozoic)
 PCrv Rove Formation (Paleoproterozoic)



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 Maps
 Rosenthal, J. 2012 Fluvial terraces of Grand Portage Creek, Grand Portage National Monument (scale 1:24,000). Unpublished. GeoCorps of America, Boulder, Colorado.
 Miller, J.D., Jr., J.C. Green, M.J. Severson, V.W. Chandler, and D.M. Peterson. 2001. Geologic map of the Duluth Complex and Related Rocks, Northeastern Minnesota (scale 1:200,000). Miscellaneous Map Series M-119. Minnesota Geological Survey, St Paul, Minnesota.
Source Scale: 1:24,000 and 1:200,000. According to US National Map accuracy standards, features are within 12m (40 ft) (24,000) and 101m (333 ft) (200,000) of their true location.
Poster Layout: Georgia Hybels (Colorado State University) **Poster Date:** November 2018
GRI Map Date: July 2010

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