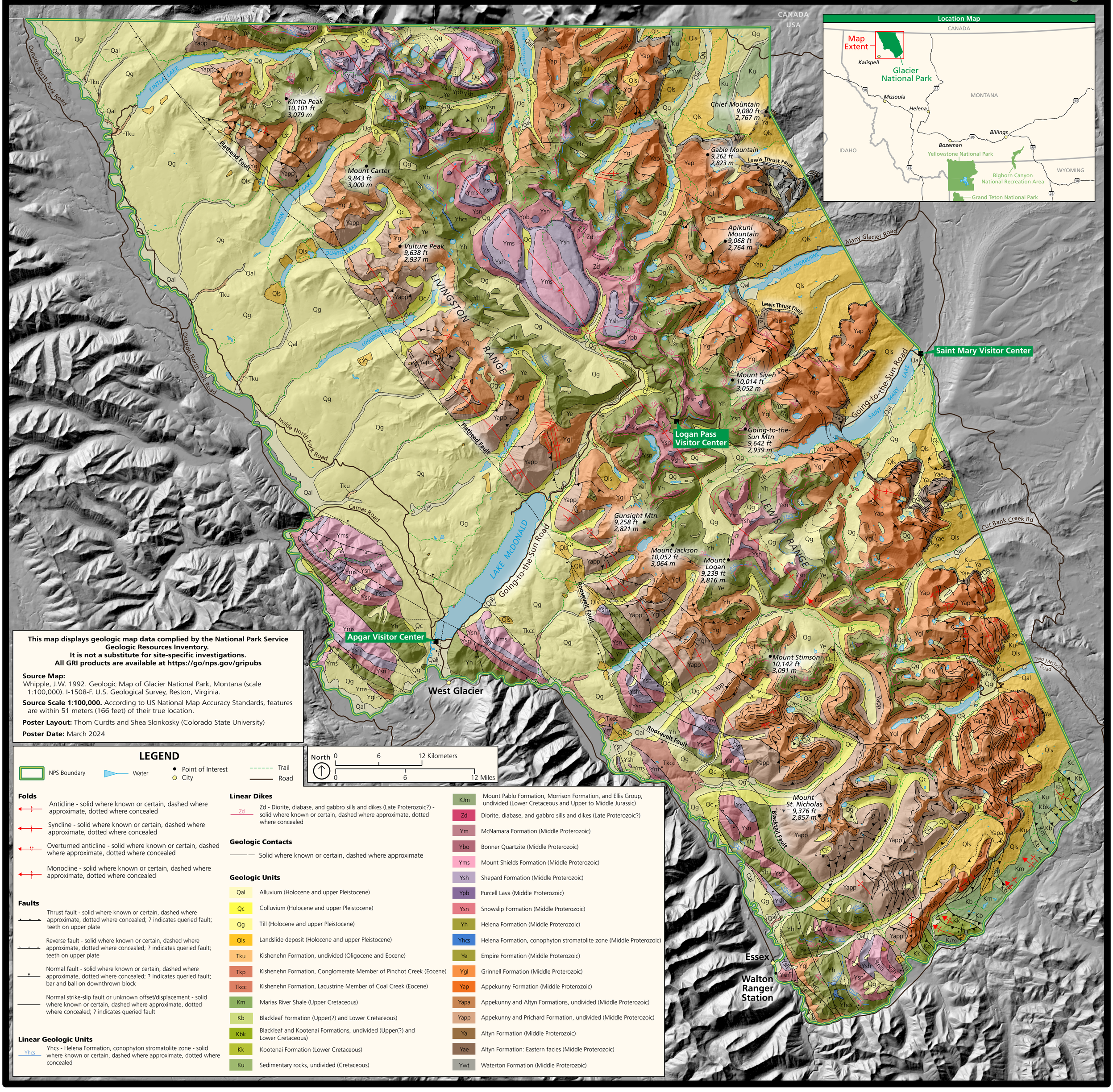
Bedrock Geologic Map of Glacier National Park

Montana

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science



This map displays geologic map data complied by the National Park Service Geologic Resources Inventory.
It is not a substitute for site-specific investigations.
All GRI products are available at https://go/nps.gov/gripubs

Source Map:
Whipple, J.W. 1992. Geologic Map of Glacier National Park, Montana (scale 1:100,000). I-1508-F. U.S. Geological Survey, Reston, Virginia.

Source Scale 1:100,000. According to US National Map Accuracy Standards, features are within 51 meters (166 feet) of their true location.

Poster Layout: Thom Curdts and Shea Slonkosky (Colorado State University)

Poster Date: March 2024

North 0 6 12 Kilometers
0 6 12 Miles

LEGEND

NPS Boundary
Water
Point of Interest
City
Trail
Road

Folds

- Anticline - solid where known or certain, dashed where approximate, dotted where concealed
- Syncline - solid where known or certain, dashed where approximate, dotted where concealed
- Overturned anticline - solid where known or certain, dashed where approximate, dotted where concealed
- Monocline - solid where known or certain, dashed where approximate, dotted where concealed

Faults

- Thrust fault - solid where known or certain, dashed where approximate, dotted where concealed; ? indicates queried fault; teeth on upper plate
- Reverse fault - solid where known or certain, dashed where approximate, dotted where concealed; ? indicates queried fault; teeth on upper plate
- Normal fault - solid where known or certain, dashed where approximate, dotted where concealed; ? indicates queried fault; bar and ball on downthrown block
- Normal strike-slip fault or unknown offset/displacement - solid where known or certain, dashed where approximate, dotted where concealed; ? indicates queried fault

Linear Geologic Units

Yhcs - Yhcs - Helena Formation, conophyton stromatolite zone - solid where known or certain, dashed where approximate, dotted where concealed

Linear Dikes

Zd - Zd - Diorite, diabase, and gabbro sills and dikes (Late Proterozoic?) - solid where known or certain, dashed where approximate, dotted where concealed

Geologic Contacts

Solid where known or certain, dashed where approximate

Geologic Units

- Qal — Alluvium (Holocene and upper Pleistocene)
- Qc — Colluvium (Holocene and upper Pleistocene)
- Qg — Till (Holocene and upper Pleistocene)
- Qls — Landslide deposit (Holocene and upper Pleistocene)
- Tku — Kishenehn Formation, undivided (Oligocene and Eocene)
- Tkp — Kishenehn Formation, Conglomerate Member of Pinchot Creek (Eocene)
- Tkcc — Kishenehn Formation, Lacustrine Member of Coal Creek (Eocene)
- Km — Marias River Shale (Upper Cretaceous)
- Kb — Blackleaf Formation (Upper(?) and Lower Cretaceous)
- Kbk — Blackleaf and Kootenai Formations, undivided (Upper(?) and Lower Cretaceous)
- Kk — Kootenai Formation (Lower Cretaceous)
- Ku — Sedimentary rocks, undivided (Cretaceous)
- KJm — Mount Pablo Formation, Morrison Formation, and Ellis Group, undivided (Lower Cretaceous and Upper to Middle Jurassic)
- Zd — Diorite, diabase, and gabbro sills and dikes (Late Proterozoic?)
- Ym — McNamara Formation (Middle Proterozoic)
- Ybo — Bonner Quartzite (Middle Proterozoic)
- Yms — Mount Shields Formation (Middle Proterozoic)
- Ysh — Shepard Formation (Middle Proterozoic)
- Ypb — Purcell Lava (Middle Proterozoic)
- Ysn — Snowslip Formation (Middle Proterozoic)
- Yh — Helena Formation (Middle Proterozoic)
- Yhcs — Helena Formation, conophyton stromatolite zone (Middle Proterozoic)
- Ye — Empire Formation (Middle Proterozoic)
- Ygl — Grinnell Formation (Middle Proterozoic)
- Yap — Appekunny Formation (Middle Proterozoic)
- Yapa — Appekunny and Altyn Formations, undivided (Middle Proterozoic)
- Yapp — Appekunny and Prichard Formation, undivided (Middle Proterozoic)
- Ya — Altyn Formation (Middle Proterozoic)
- Yae — Altyn Formation: Eastern facies (Middle Proterozoic)
- Ywt — Waterton Formation (Middle Proterozoic)