Surficial 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:
Carrara, P.E. 1990. Surficial Geologic Map of Glacier National Park, Montana (scale 1:100,000). I-1508-D. 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
- Point of Interest
- City
- Trail
- Road
- Water

Avalanche Track
- Avalanche track, known or certain

Glacial Feature Lines
- Glacial meltwater channel, known or certain
- Orientation of drumlinoid feature, known or certain

Surficial Contacts
- Surficial contact, known or certain

Surficial Units

Qal	Alluvium (Holocene and upper Pleistocene)
Qaf	Alluvial-fan deposit (Holocene and late Pleistocene)
Qac	Alluvial and colluvial deposit (Holocene and late Pleistocene)
Qtg	Terrace deposit (late Pleistocene)
Qes	Esker deposit (late Pleistocene)
Qat	Ablation till (late Pleistocene)
Qt1	Till 1 (late Holocene)
Qt2	Till 2 (late Pleistocene)
Qt3	Till 3 (late Pleistocene)
Qrg	Rock-glacier deposit (Holocene and late Pleistocene)
Qta	Talus deposit (Holocene and late Pleistocene)
Qls	Landslide deposit (Holocene and upper Pleistocene)
Qco	Colluvial deposit (Holocene and late Pleistocene)
Qso	Solifluction and related deposit (Holocene and Pleistocene)
Qfr	Frost rubble (Holocene and Pleistocene)
Qor	Organic deposit (Holocene and late Pleistocene)
QTdi	Diamicton (early Pleistocene or Pliocene?)
BR	Bedrock (late Paleogene, Cretaceous and Proterozoic)

Location Map

