DIGITAL MAPPING TECHNIQUES 2014

The following was presented at DMT’14 (June 1-4, 2014 - Delaware Geological Survey, Newark, DE)

The contents of this document are provisional

See Presentations and Proceedings from the DMT Meetings (1997-2014)

http://ngmdb.usgs.gov/info/dmt/
along with custom Python and .NET tools developed by the GRI. Each map is cartographically presented with map unit colors and ArcGIS software, (2) a KML/KMZ file for use with Google Earth, and (3) an ESRI 10.1 map service for use with online map viewers. These product formats presently are: (1) an ESRI 10.0 file geodatabase and accompanying 10.0 ArcMap document for use with ESRI.

The GRI digital geologic-GIS maps for Grand Canyon National Park include a compiled park extent map, as well as individual 30' x 60' quadrangle maps for: (1) Tuba City, (2) Glen Canyon Dam, (3) Cameron, and (4) Fredonia. Each of these maps contains: (1) the geologic units for the map area, (2) a photo of the area, and (3) a photo of the river from that section of the park. Each map also includes a legend describing the geologic units in the park. The legend below displays a subset of the 262 units present on the GRI Digital Geologic Map of Grand Canyon National Park.

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- Zgcc: Galeros Formation, Carbon Canyon Member (Neoproterozoic)
- Zkcb: Kwagunt Formation, Carbon Butte Member (Neoproterozoic)
- Ms: Surprise Canyon Formation (Upper Mississippian)
- Mr: Mohave Butte Member (Middle Devonian)
- Mcl: Carollo Shale Member (Middle Cambrian)
- Mbk: Bright Angel Shale (Middle Cambrian)
- Mba: Blue Mesa Sandstone (Lower Carboniferous)
- Mbs: Black Shale (Lower Carboniferous)
- Mz: Zoroaster Tuff (Upper Carboniferous)
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