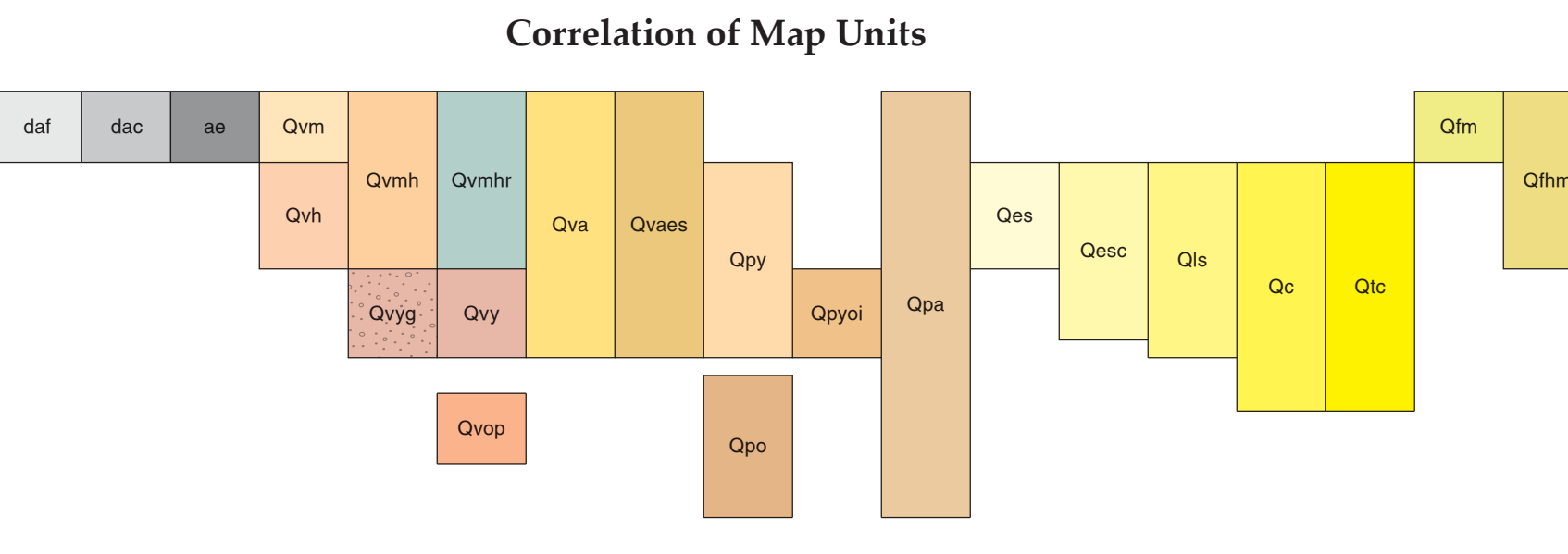


Geologic Map of the Tortugas Mountain 7.5-Minute Quadrangle, Doña Ana County, New Mexico. Includes title, authors (Andrew P. Jochems, Shari A. Kelley, and William R. Seager), date (December 2020), and contact information for the New Mexico Bureau of Geology and Mineral Resources.



Comments to Map Users. A geologic map displays information on the distribution, nature, orientation, and age relationships of rock and deposits and the occurrence of structural features. Geologic and fault contacts are irregular surfaces that form boundaries between different types or ages of units.

Comments to Map Users (continued). Cross sections are constructed based upon the interpretations of the author made from geologic mapping and available geophysical and geologic data. Cross sections should be used as an aid to understanding the general geologic framework of the map area, and not the sole source of information for use in locating or designing wells, buildings, roads, or other man-made structures.

Comments to Map Users (continued). The New Mexico Bureau of Geology and Mineral Resources created the Open-File Geologic Map Series to expedite dissemination of geologic map data to the public as rapidly as possible while allowing for map revision as geologists continued to work in map areas.

Comments to Map Users (continued). This and other STATEMAP quadrangles are available for free download in both PDF and ArcGIS formats at: http://goinf.nmt.edu

Correlation of Map Units. This diagram illustrates the stratigraphic relationships between various geological units, showing their relative positions and thicknesses.

Explanation of Map Symbols. This section defines the symbols used on the geologic map, including lines for faults, dashed lines for uncertain contacts, and various symbols for folds and other geological features.

Comments to Map Users. This section provides detailed information about the map, including the geologic units shown, the symbols used, and the methods used to create the map.

Comments to Map Users (continued). This section discusses the geologic cross-section A-A' and provides a detailed description of the geological units and their relationships shown in the section.

Comments to Map Users (continued). This section provides information about the map's availability and how it can be accessed, including a link to the NMBGMR website.

Description of Map Units. This section provides a detailed description of each geological unit shown on the map, including its composition, texture, and age.

Description of Map Units (continued). This section continues the description of geological units, focusing on their stratigraphic relationships and how they are identified in the field.

Description of Map Units (continued). This section describes the Quaternary and Anthropogenic Units, including the Camp Rice Formation and other recent deposits.

Description of Map Units (continued). This section describes the Eolian and Hillslope Units, including sand dunes and other wind-blown deposits, as well as alluvial fans and piedmont units.

Description of Map Units (continued). This section describes the Older Alluvial Units, including various types of alluvium and their relationship to the surrounding geology.

Description of Map Units (continued). This section describes the Basin-Fill Units, including the Rio Grande floodplain and other basin-fill deposits.

Description of Map Units (continued). This section describes the Valley-Floor Units, including various types of valley-floor deposits and their relationship to the surrounding geology.

Description of Map Units (continued). This section describes the Modern alluvium, including recent alluvium and its relationship to the surrounding geology.

Description of Map Units (continued). This section describes the Historical alluvium, including older alluvium and its relationship to the surrounding geology.

Description of Map Units (continued). This section describes the Modern and historical alluvium of the Rio Grande floodplain, including its relationship to the surrounding geology.

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Quaternary and Anthropogenic Units. This section describes the various units of Quaternary and Anthropogenic origin, including the Camp Rice Formation and other recent deposits.

Eolian and Hillslope Units. This section describes the various units of Eolian and Hillslope origin, including sand dunes and other wind-blown deposits.

Older Alluvial Units. This section describes the various units of Older Alluvial origin, including various types of alluvium and their relationship to the surrounding geology.

Alluvial Fan and Piedmont Units. This section describes the various units of Alluvial Fan and Piedmont origin, including alluvial fans and piedmont deposits.

Basin-Fill Units. This section describes the various units of Basin-Fill origin, including the Rio Grande floodplain and other basin-fill deposits.

Valley-Floor Units. This section describes the various units of Valley-Floor origin, including various types of valley-floor deposits.

Modern alluvium. This section describes the various units of Modern alluvium, including recent alluvium and its relationship to the surrounding geology.

Historical alluvium. This section describes the various units of Historical alluvium, including older alluvium and its relationship to the surrounding geology.

Modern and historical alluvium of the Rio Grande floodplain. This section describes the various units of Modern and historical alluvium of the Rio Grande floodplain.

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