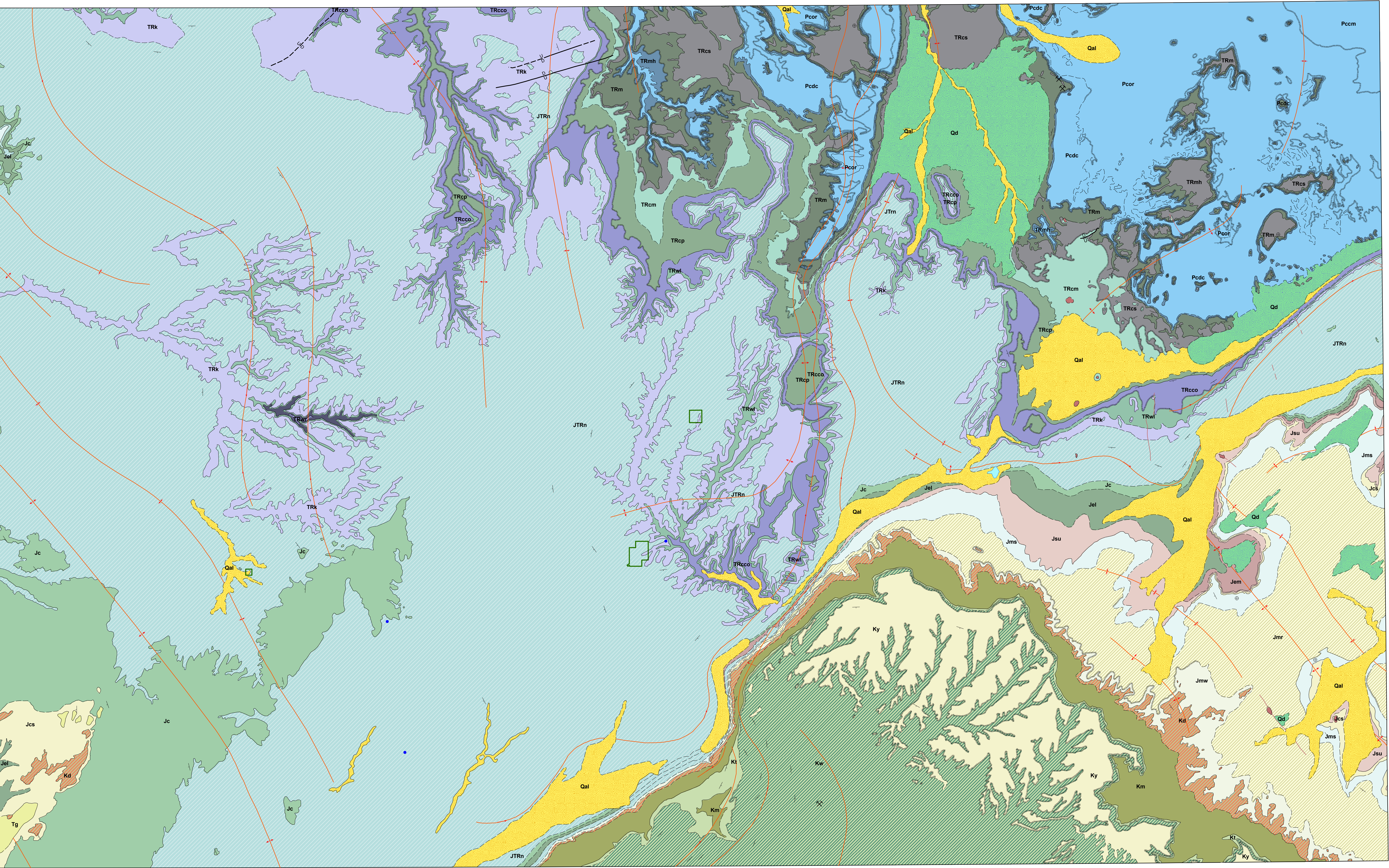


# Geologic Map of Navajo National Monument



**Navajo NM Boundary**  
 Navajo NM Boundary

**Geologic Attitude Observation Localities**  
 strike and dip of beds  
 horizontal beds  
 upthrown side of fault  
 downthrown side of fault  
 monocline symbol  
 anticline symbol  
 syncline symbol

**Age-Date Localities**  
 paleontological

**Mine Point Features**  
 mine

**Linear Dikes**  
 Ti - intrusive igneous rocks

**Folds**  
 know or certain

**Faults**  
 normal fault, known or certain  
 normal fault, approximate

**Geologic Contacts**  
 known or certain  
 approximate  
 gradational  
 map boundary  
 shoreline

**Geologic Units**  
 Qal - alluvium  
 Qd - dune sand  
 Tg - gravel  
 Ti - intrusive igneous rocks  
 Ky - Yale Point Sandstone  
 Kw - Wepo Formation  
 Kt - Toreva Formation  
 Km - Mancos Shale  
 Kd - Dakota Sandstone  
 Jmw - Morrison Formation, Westwater Canyon Member  
 Jmr - Morrison Formation, Recapture Member  
 Jms - Morrison Formation, Salt Wash Member  
 Jcs - Cow Springs Sandstone  
 Jbsu - Summerville Fm., Bluff Sandstone and upper sandy member  
 Jsus - Summerville Formation, upper sandy member  
 Jem - Entrada Sandstone, middle silty member  
 Jel - Entrada Sandstone, lower sandy member  
 Jc - Camel Formation  
 JTRn - Navajo Sandstone  
 TRk - Kayenta Formation, sandy facies  
 TRwl - Wingate Sandstone, Lukachukia Member  
 TRwr - Wingate Sandstone, rockpoint member  
 TRcco - Chinle Formation, Churh Rock and Owl Members  
 TRcp - Chinle Formation, Petrified Forest Member  
 TRcm - Chinle Formation, Monitor Butte Member  
 TRcs - Chinle Formation, Shinarump Member  
 TRm - Moenkopi Formation  
 TRmh - Moenkopi Formation, Hoskinnini Member  
 Pcdc - Cutler Formation, De Chelley Sandstone Member  
 Pcor - Cutler Formation, Organ Rock Tongue  
 Pccm - Cutler Formation, Cedar Mesa Sandstone  
 WATER

This map graphically presents digital geologic data prepared as part of the NPS Geologic Resources Division's Geologic Resource Evaluation Program. The source map used in creation of the digital geologic data product was:

*M.E. Cooley, J.W. Harshbarger, J.P. Akers, and W.F. Hardt, 1969, Regional Hydrogeology of the Navajo and Hopi Indian Reservations, Arizona, New Mexico and Utah, U.S. Geological Survey with the cooperation of the Bureau of Indian Affairs and the Navajo Tribe, Professional Paper 521-A, 1:125,000.*

Digital geologic data and cross sections for Navajo National Monument, and all other digital geologic data prepared as part of the Geologic Resource Evaluation Program, are available online at the NPS Data Store: <http://science.nature.nps.gov/nrdata/>