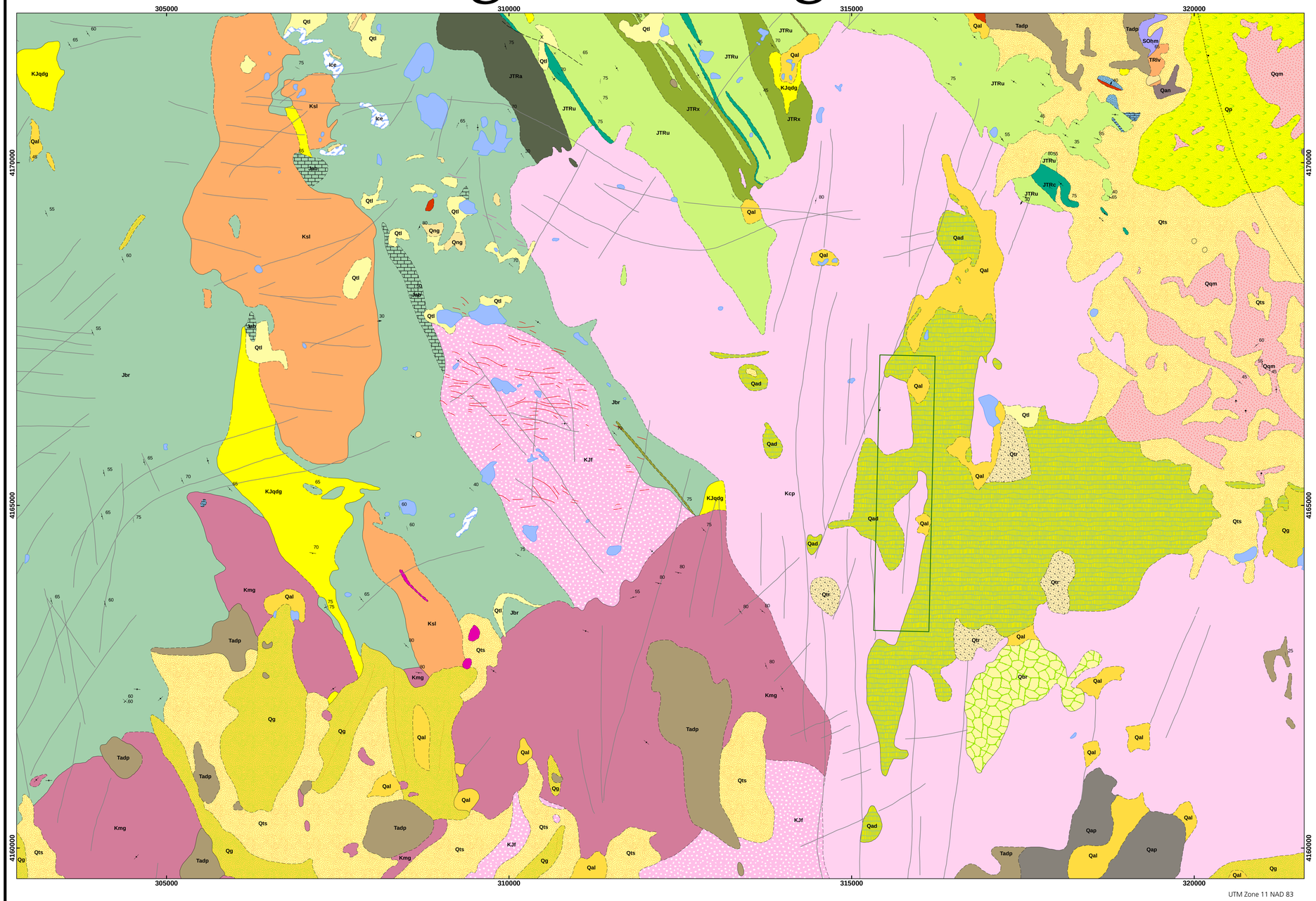
# Overview of Digital Geologic Data for Devils Postpile NM




**NPS Boundary**

**Geologic Attitude and Observation Localities**

- strike and dip of inclined beds
- strike of vertical beds
- horizontal beds
- strike and dip of inclined beds, tops known from sedimentary structures
- strike and dip of inclined overturned beds, tops known from sedimentary structures
- approximate strike and dip of inclined beds
- strike of variable bedding, dip amount unspecified
- strike of variable vertical beds
- strike and dip of inclined foliation
- strike of vertical foliation
- horizontal foliation
- strike of foliation, dip amount unspecified
- strike and dip of inclined joints
- strike of vertical joints
- trend and plunge of inclined lineation
- vertical lineation
- strike and dip of inclined layering (flow, compositional)
- strike of vertical layering (flow, compositional)
- fault dip amount, dip direction indicated
- dip of inclined contact, dip direction indicated
- trend and plunge of inclined minor fold axis
- trend of horizontal minor fold axis
- strike of vertical beds, tops known from sedimentary features

**Geologic Sample Localities**

- paleontological age-date locality

**Mine Point Features**

- prospect
- mine

**Volcanic Point Features**

- fumarole
- thermal spring

**Volcanic Line Features**

- pit crater, known or certain

**Glacial Feature Lines**

- moraine crest, known or certain

**Geologic Line Features**

- lineament, known or certain

**Fault, Fold and Other Map Symbology**

- fold plunge arrow head
- fault down-side (bar and ball) indicator
- syncline symbol

**Folds**

- syncline, approximate

**Faults**

- unknown offset/displacement fault, known or certain
- unknown offset/displacement fault, approximate
- unknown offset/displacement fault, concealed
- unknown offset/displacement fault, inferred

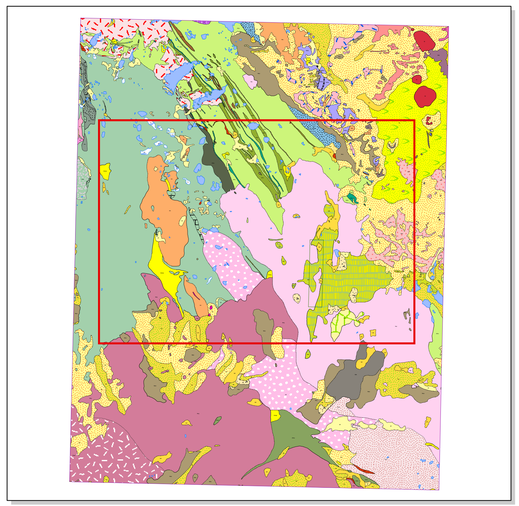
**Linear Dikes**

- KJfd - Felsic dikes and masses
- KJmd - Mafic dikes and masses
- KJmd - Mafic dikes and masses, concealed

**Geologic Contacts**

- known or certain
- approximate
- gradational
- quadrangle boundary
- water or shoreline
- ice or glacial, approximate

**Full Extent of Digital Geologic Data, Area of Detail in Red**



N

0 2 4 Kilometers

0 1 2 Miles

**Geologic Units**

- Water - Lakes and rivers
- Qal - Alluvium
- Qtl - Talus
- Qts - Talus and Slopewash
- Qng - Neoglacial and periglacial deposits
- Qg - Glacial deposits
- Qp - Rhyolitic pumice
- Qr - Rhyolite
- Qbr - Basalt of the Red Cones
- Qoq - Olivine-bearing quartz latite
- Qap - Andesite of Pumice Butte
- Qan - Andesite
- Qqm - Quartz latite of Mammoth Mountain
- Qad - Andesite of the Devils Postpile
- Qtr - Rhyolitic tuff of Reds Meadow
- QTan - Andesite
- Tqt - Quartz latite of Two Teats
- Tadp - Andesite of Deadman Pass
- Kcp - Cathedral Peak Granodiorite
- Kcpa - Cathedral Peak Granite alaskitic phase
- Kkc - Granodiorite of Kuna Crest
- Kmg - Mount Givens Granodiorite
- Kmgp - Mount Givens Granodiorite, porphyritic
- Krd - Granodiorite of Red Devil Lake
- Kjl - Granodiorite of Jackass Lakes
- Ksl - Quartz monzonite of Shellenbarger Lake
- KJqdg - Quartz diorite, diorite and gabbro
- KJfd - Felsic dikes and masses
- KJmd - Mafic dikes and masses
- KJf - Granodiorite of King and Fish Creeks
- Jrc - Granodiorite of Rush Creek
- TRlv - Granite of Lee Vining Canyon
- TRwc - Wheeler Crest Granodiorite
- Jtlb - Twin Island Lakes area, basalt
- Jma - Twin Island Lakes area, andesite and basalt
- Jtis - Twin Island Lakes area, sedimentary
- Jbr - Ritter Range rocks, undifferentiated metavolcanics, chiefly brecca
- Jbrm - Ritter Range rocks, undifferentiated metavolcanics,area of migmatization
- Jts - Ritter Range rocks, tuffaceous metasandstone and metasiltstone
- Jdf - Ritter Range rocks, metadacite flow
- Jeg - Ritter Range rocks, epidote-garnet rock
- Jab - Ritter Range rocks, meta-andesite and meta basalt
- JTRu - Shadow Creek and Mammoth Crest rocks, undifferentiated metavolcanic rocks
- JTRpz - Shadow Creek and Mammoth Crest rocks, piedmontite-bearing zone
- JTRqa - Shadow Creek and Mammoth Crest rocks, quartz-andalusite-corundum rock
- JTRa - Shadow Creek and Mammoth Crest rocks, meta-andesite and metabasalt
- JTRx - Shadow Creek and Mammoth Crest rocks, crystal tuff
- JTRd - Shadow Creek and Mammoth Crest rocks, metadacite and meta-andesite
- JTRc - Shadow Creek and Mammoth Crest rocks, calcareous sedimentary rock
- JTRss - Shadow Creek and Mammoth Crest rocks, metasandstone, metasiltstone, and slate
- JTRsc - Metavolcanic rocks of Silver Creek
- PPNhy - Younger metasedimentary rocks, pelitic and siliceous hornfels
- PPNmy - Younger metasedimentary rocks, marble
- SOhm - Older metasedimentary rocks, hornfels and silicated marble
- SOsm - Older metasedimentary rocks, silicated marble
- Ice - Ice fields

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

Huber, N.K., and C.D., Rinehart. 1965. *Geologic map of the Devils Postpile quadrangle, Sierra Neveda, California*. Scale 1:62,500. U.S. Geoloigcal Survey Geoloigc Quadrangle GQ-437.

Digital geologic data and cross sections for Devils Postpile National Monument, and all other digital geologic data prepared as part of the Geologic Resources Inventory, are available online at the NPS Data Store: http://science.nature.nps.gov/nrdata/