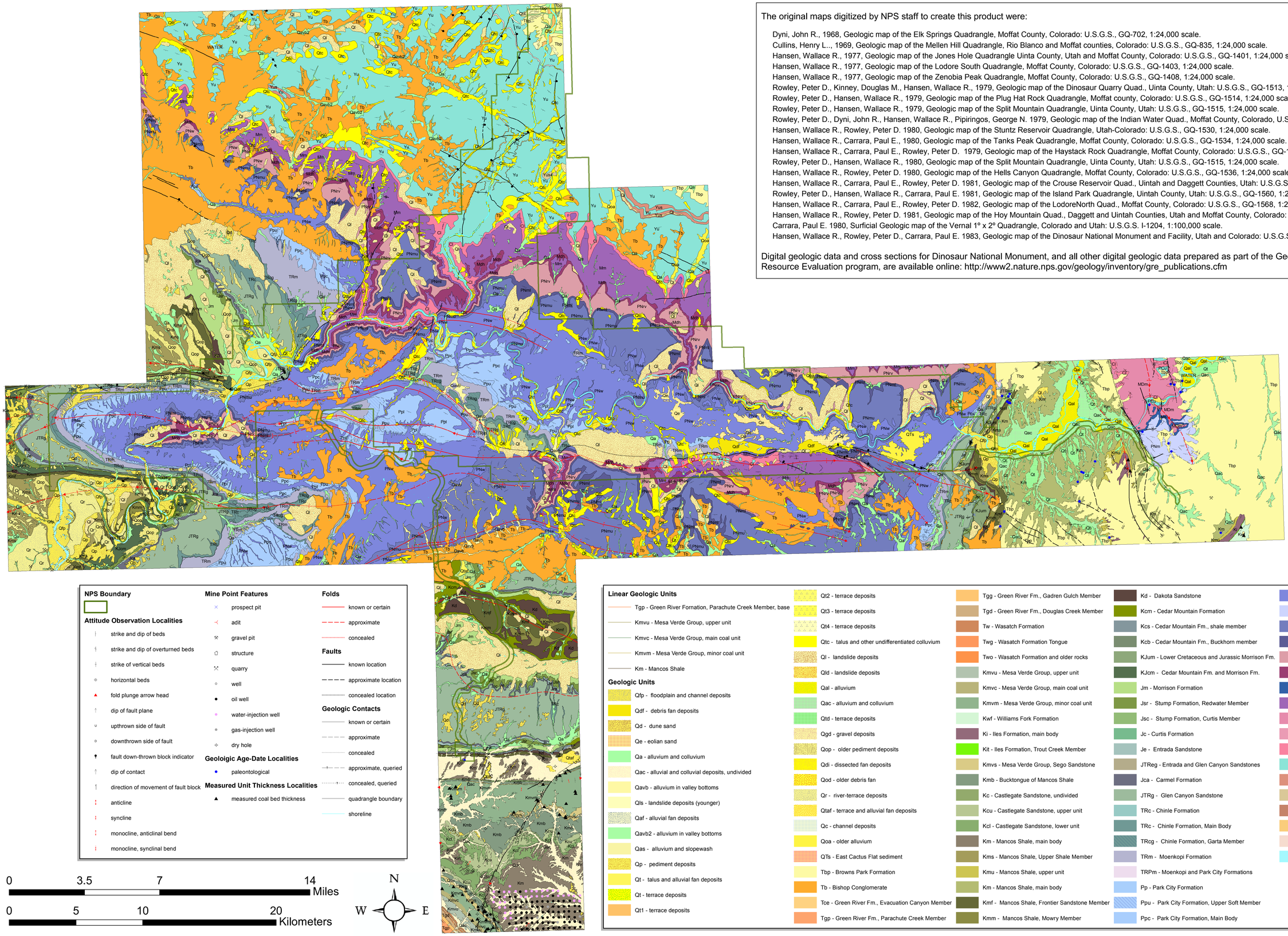
Geologic Map of Dinosaur NM



The original maps digitized by NPS staff to create this product were:

Dyni, John R., 1968, Geologic map of the Elk Springs Quadrangle, Moffat County, Colorado: U.S.G.S., GQ-702, 1:24,000 scale.
Cullins, Henry L.., 1969, Geologic map of the Mellen Hill Quadrangle, Rio Blanco and Moffat counties, Colorado: U.S.G.S., GQ-835, 1:24,000 scale.
Hansen, Wallace R., 1977, Geologic map of the Jones Hole Quadrangle Uinta County, Utah and Moffat County, Colorado: U.S.G.S., GQ-1401, 1:24,000 scale.
Hansen, Wallace R., 1977, Geologic map of the Lodore South Quadrangle, Moffat County, Colorado: U.S.G.S., GQ-1403, 1:24,000 scale.
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Rowley, Peter D., Kinney, Douglas M., Hansen, Wallace R., 1979, Geologic map of the Dinosaur Quarry Quad., Uinta County, Utah: U.S.G.S., GQ-1513, 1:24,000 scale.
Rowley, Peter D., Hansen, Wallace R., 1979, Geologic map of the Plug Hat Rock Quadrangle, Moffat county, Colorado: U.S.G.S., GQ-1514, 1:24,000 scale.
Rowley, Peter D., Hansen, Wallace R., 1979, Geologic map of the Split Mountain Quadrangle, Uinta County, Utah: U.S.G.S., GQ-1515, 1:24,000 scale.
Rowley, Peter D., Dyni, John R., Hansen, Wallace R., Pipiringos, George N. 1979, Geologic map of the Indian Water Quad., Moffat County, Colorado, U.S.G.S., GQ-1516, 1:24,000 scale.
Hansen, Wallace R., Rowley, Peter D. 1980, Geologic map of the Stuntz Reservoir Quadrangle, Utah-Colorado: U.S.G.S., GQ-1530, 1:24,000 scale.
Hansen, Wallace R., Carrara, Paul E., 1980, Geologic map of the Tanks Peak Quadrangle, Moffat County, Colorado: U.S.G.S., GQ-1534, 1:24,000 scale.
Hansen, Wallace R., Carrara, Paul E., Rowley, Peter D. 1979, Geologic map of the Haystack Rock Quadrangle, Moffat County, Colorado: U.S.G.S., GQ-1535, 1:24,000 scale.
Rowley, Peter D., Hansen, Wallace R., 1980, Geologic map of the Split Mountain Quadrangle, Uinta County, Utah: U.S.G.S., GQ-1515, 1:24,000 scale.
Hansen, Wallace R., Rowley, Peter D. 1980, Geologic map of the Hells Canyon Quadrangle, Moffat County, Colorado: U.S.G.S., GQ-1536, 1:24,000 scale.
Hansen, Wallace R., Carrara, Paul E., Rowley, Peter D. 1981, Geologic map of the Crouse Reservoir Quad., Uintah and Daggett Counties, Utah: U.S.G.S., GQ-1554, 1:24,000 scale.
Rowley, Peter D., Hansen, Wallace R., Carrara, Paul E. 1981, Geologic map of the Island Park Quadrangle, Uintah County, Utah: U.S.G.S., GQ-1560, 1:24,000 scale.
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Hansen, Wallace R., Rowley, Peter D. 1981, Geologic map of the Hoy Mountain Quad., Daggett and Uintah Counties, Utah and Moffat County, Colorado: U.S.G.S., GQ-1695, 1:24,000 scale.
Carrara, Paul E. 1980, Surficial Geologic map of the Vernal 1° x 2° Quadrangle, Colorado and Utah: U.S.G.S. I-1204, 1:100,000 scale.
Hansen, Wallace R., Rowley, Peter D., Carrara, Paul E. 1983, Geologic map of the Dinosaur National Monument and Facility, Utah and Colorado: U.S.G.S. I-1407, 1:100,000 scale.

Digital geologic data and cross sections for Dinosaur National Monument, and all other digital geologic data prepared as part of the Geologic Resources Divisions Geologic Resource Evaluation program, are available online: http://www2.nature.nps.gov/geology/inventory/gre_publications.cfm

NPS Boundary

Attitude Observation Localities
- strike and dip of beds
- strike and dip of overturned beds
- strike of vertical beds
- horizontal beds
- fold plunge arrow head
- dip of fault plane
- upthrown side of fault
- downthrown side of fault
- fault down-thrown block indicator
- dip of contact
- direction of movement of fault block
- anticline
- syncline
- monocline, anticlinal bend
- monocline, synclinal bend

Mine Point Features
- prospect pit
- adit
- gravel pit
- structure
- quarry
- well
- oil well
- water-injection well
- gas-injection well
- dry hole

Geoloigic Age-Date Localities
- paleontological

Measured Unit Thickness Localities
- measured coal bed thickness

Folds
- known or certain
- approximate
- concealed

Faults
- known location
- approximate location
- concealed location

Geologic Contacts
- known or certain
- approximate
- concealed
- approximate, queried
- concealed, queried
- quadrangle boundary
- shoreline

0 3.5 7 14 Miles

0 5 10 20 Kilometers

N W E S

Linear Geologic Units
- Tgp - Green River Fornation, Parachute Creek Member, base
- Kmvu - Mesa Verde Group, upper unit
- Kmvc - Mesa Verde Group, main coal unit
- Kmvm - Mesa Verde Group, minor coal unit
- Km - Mancos Shale

Geologic Units
- Qfp - floodplain and channel deposits
- Qdf - debris fan deposits
- Qd - dune sand
- Qe - eolian sand
- Qa - alluvium and colluvium
- Qac - alluvial and colluvial deposits, undivided
- Qavb - alluvium in valley bottoms
- Qls - landslide deposits (younger)
- Qaf - alluvial fan deposits
- Qavb2 - alluvium in valley bottoms
- Qas - alluvium and slopewash
- Qp - pediment deposits
- Qt - talus and alluvial fan deposits
- Qt - terrace deposits
- Qt1 - terrace deposits
- Qt2 - terrace deposits
- Qt3 - terrace deposits
- Qt4 - terrace deposits
- Qtc - talus and other undifferentiated colluvium
- Ql - landslide deposits
- Qld - landslide deposits
- Qal - alluvium
- Qac - alluvium and colluvium
- Qtd - terrace deposits
- Qgd - gravel deposits
- Qop - older pediment deposits
- Qdi - dissected fan deposits
- Qod - older debris fan
- Qr - river-terrace deposits
- Qtaf - terrace and alluvial fan deposits
- Qc - channel deposits
- Qoa - older alluvium
- QTs - East Cactus Flat sediment
- Tbp - Browns Park Formation
- Tb - Bishop Conglomerate
- Tce - Green River Fm., Evacuation Canyon Member
- Tgp - Green River Fm., Parachute Creek Member
- Tgg - Green River Fm., Gadren Gulch Member
- Tgd - Green River Fm., Douglas Creek Member
- Tw - Wasatch Formation
- Twg - Wasatch Formation Tongue
- Two - Wasatch Formation and older rocks
- Kmvu - Mesa Verde Group, upper unit
- Kmvc - Mesa Verde Group, main coal unit
- Kmvm - Mesa Verde Group, minor coal unit
- Kwf - Williams Fork Formation
- Ki - Iles Formation, main body
- Kit - Iles Formation, Trout Creek Member
- Kmvs - Mesa Verde Group, Sego Sandstone
- Kmb - Bucktongue of Mancos Shale
- Kc - Castlegate Sandstone, undivided
- Kcu - Castlegate Sandstone, upper unit
- Kcl - Castlegate Sandstone, lower unit
- Km - Mancos Shale, main body
- Kms - Mancos Shale, Upper Shale Member
- Kmu - Mancos Shale, upper unit
- Km - Mancos Shale, main body
- Kmf - Mancos Shale, Frontier Sandstone Member
- Kmm - Mancos Shale, Mowry Member
- Kd - Dakota Sandstone
- Kcm - Cedar Mountain Formation
- Kcs - Cedar Mountain Fm., shale member
- Kcb - Cedar Mountain Fm., Buckhorn member
- KJum - Lower Cretaceous and Jurassic Morrison Fm.
- KJcm - Cedar Mountain Fm. and Morrison Fm.
- Jm - Morrison Formation
- Jsr - Stump Formation, Redwater Member
- Jsc - Stump Formation, Curtis Member
- Jc - Curtis Formation
- Je - Entrada Sandstone
- JTReg - Entrada and Glen Canyon Sandstones
- Jca - Carmel Formation
- JTRg - Glen Canyon Sandstone
- TRc - Chinle Formation
- TRc - Chinle Formation, Main Body
- TRcg - Chinle Formation, Garta Member
- TRm - Moenkopi Formation
- TRPm - Moenkopi and Park City Formations
- Pp - Park City Formation
- Ppu - Park City Formation, Upper Soft Member
- Ppc - Park City Formation, Main Body
- Pw - Weber Sandstone
- PNm - Morgan Formation
- PNmu - Morgan Formation, Upper Member
- PNml - Morgan Formation, Lower Member
- PNrv - Round Valley Limestone
- Mdh - Doughnut Shale and Humbug Formation
- Ms - Shale and Dolomite
- Mm - Madison Limestone
- MDm - Madison Limestone and older rocks
- OCd - Dike
- Cl - Lodore Formation
- Yu - Uinta Mountain Group, Sandstone
- Yus - Uinta Mountain Group, shale and sandstone
- Yus4 - Uinta Mountain Group, Unit 4
- Yus3 - Uinta Mountain Group, Unit 3
- Yus2 - Uinta Mountain Group, Unit 2
- Yus1 - Uinta Mountain Group, Unit 1
- Water

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