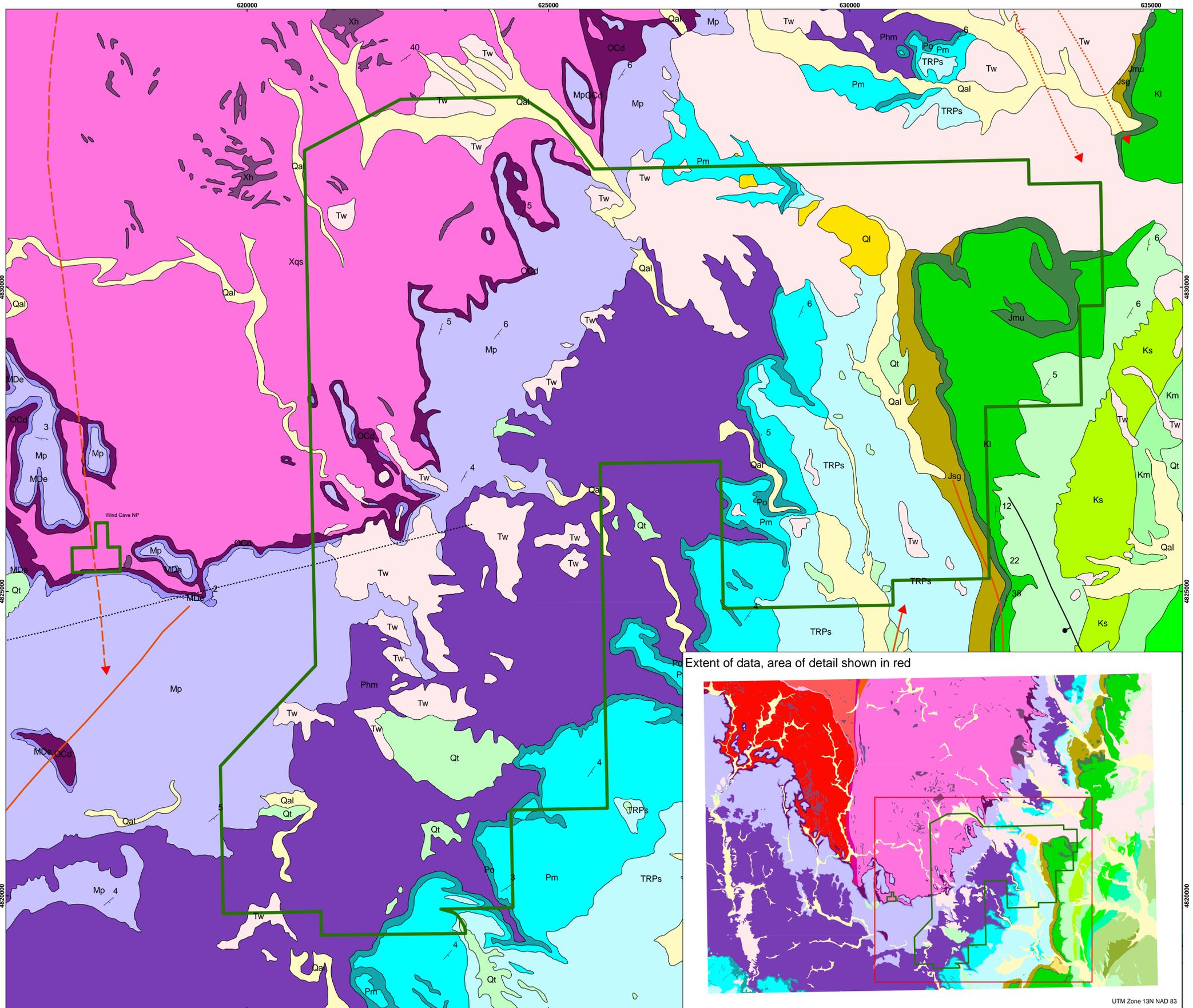




Geologic Map of Wind Cave National Park



NPS Boundary	Folds	Unique Geologic Features	Geologic Units	Geologic Units	Geologic Units
NPS Boundary	known or certain	breccia pipe	Qal - Alluvial deposits	Ks - Skull Creek Shale	Xh - Harney Peak Granite
approximate	approximate	metamorphic isograd, known or certain	Ql - Landslide deposits	Kl - Fall River Formation	Xgb - Metagabbro
concealed	concealed	isograd, inferred	Qc - Colluvium or talus	Kl - Lakota Formation	Xgwd - Distal metagraywacke
cleavage trough, inferred	cleavage trough, inferred	Linear Geologic Units	Qt - Terrace gravel and alluvial-fan deposits	Jmu - Morrison Formation and Unkpapa Sandstone, undivided	Xgwp - Proximal metagraywacke
fold plunge arrow head	fold plunge arrow head	Xgb - Metagabbro	Tw - White River Group	Jsg - Sundance and Gypsum Spring Formations, undivided	Xgw2 - Metagraywacke unit 2
fault down-thrown block indicator	fault down-thrown block indicator	Xif - Metamorphosed carbonate-facies iron formation	Kp - Pierre Shale	TRPs - Spearfish Formation	Xby - Metamorphosed younger alkalic basalt, tuff, and volcanoclastic rocks
anticline	anticline	Geologic Contacts	Kn - Niobrara Formation	Pm - Minnekahta Limestone	Xqc - Metamorphosed quartzite, debris flow conglomerate, pelite, and graywacke
syncline	syncline	known or certain	Kc - Carlisle Shale	Po - Opeche Shale	Xqs - Metamorphosed quartzite and pelite
monocline, anticlinal bend	monocline, anticlinal bend	approximate	Kg - Greenhorn Limestone	Phm - Minnelusa Formation	Xbs2 - Metamorphosed black shale
monocline, synclinal bend	monocline, synclinal bend	concealed	Kb - Belle Fourche Shale	Mp - Pahasapa Limestone	Xif - Metamorphosed carbonate-facies iron-formation
right-lateral fault block movement arrow	right-lateral fault block movement arrow	quadrangle/map boundary	Km - Mowry Shale	MDe - Englewood Limestone	
plunge of fold axis	plunge of fold axis			Ocd - Deadwood Formation	



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:
DeWitt, E. 2004. Geologic map of the Mount Rushmore and Rapid City 60' x 60' Quadrangle, South Dakota. Scale 1:100,000. USGS unpublished mylar maps.
Digital geologic data and cross sections for Wind Cave National Park 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/>