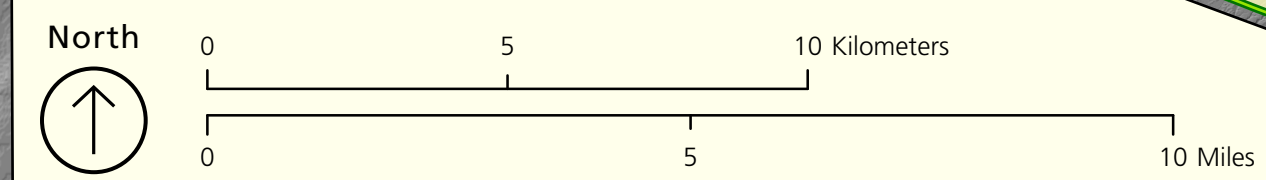
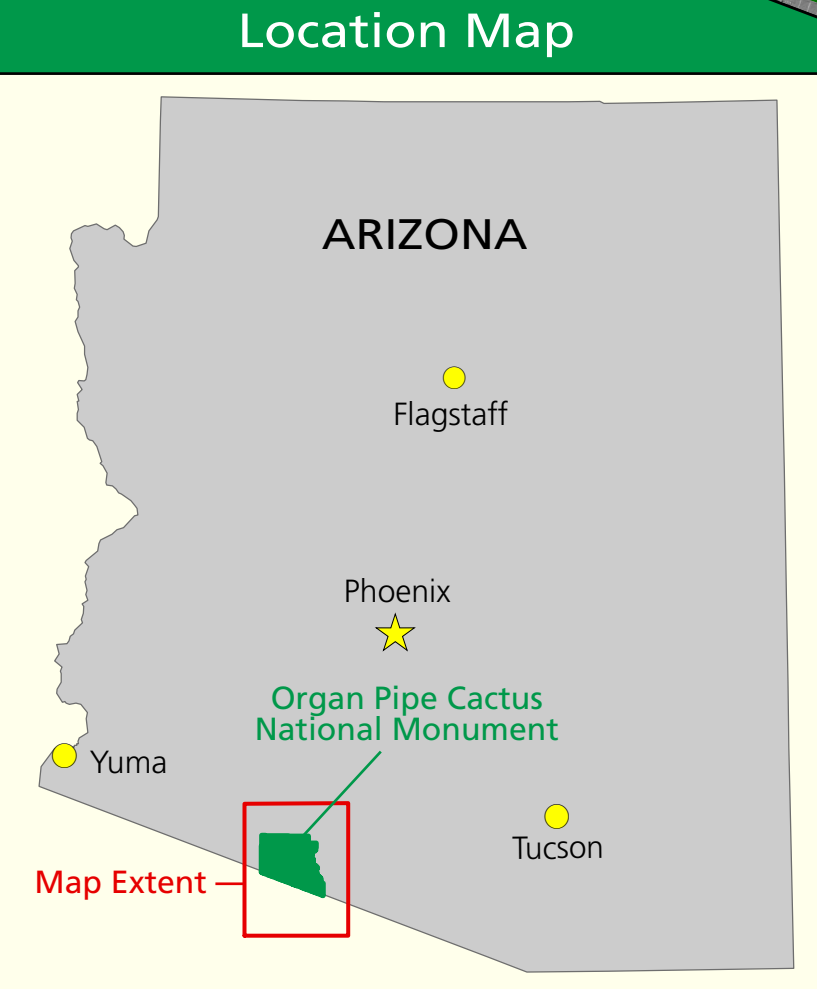
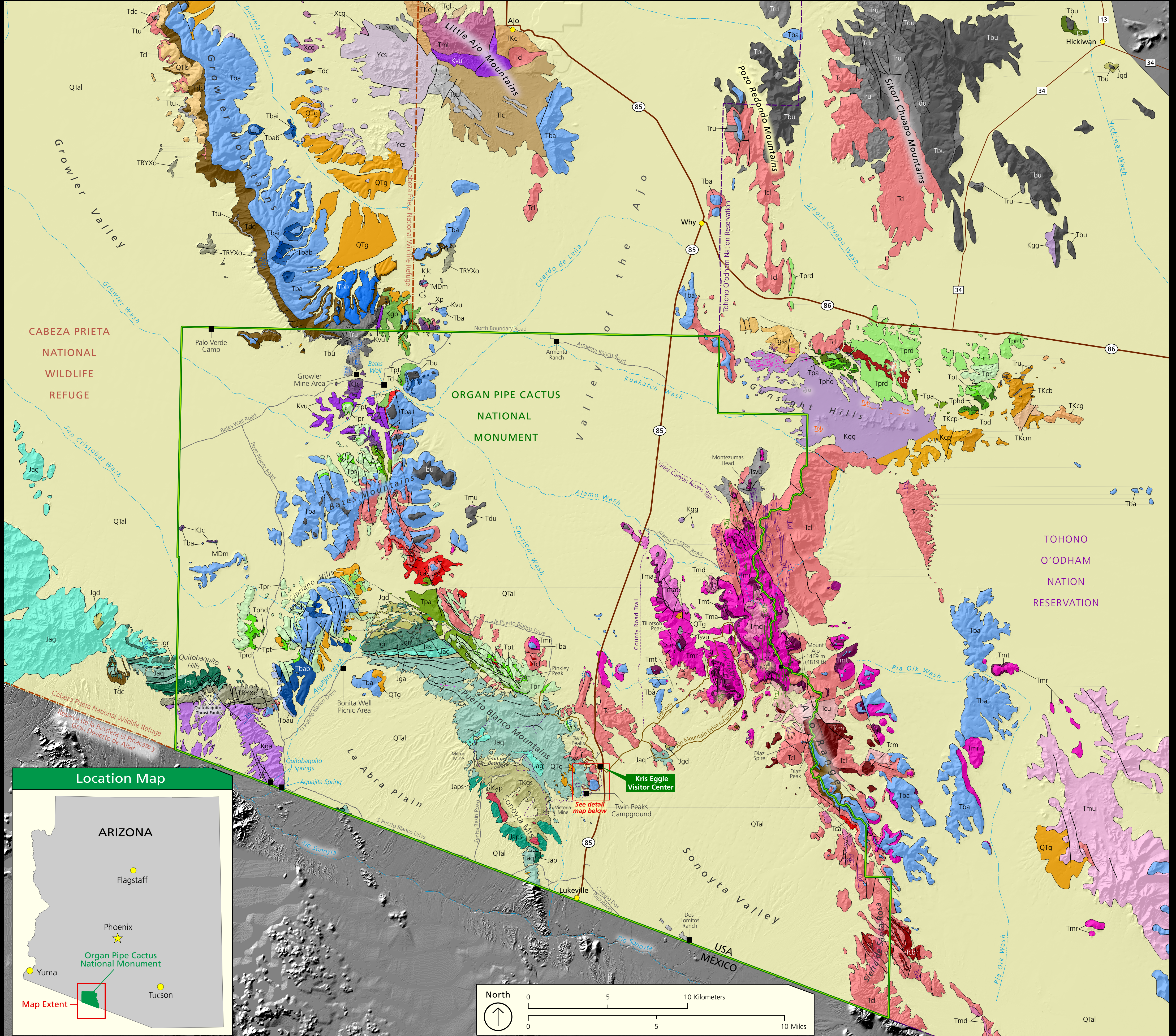


Geologic Map of Organ Pipe Cactus National Monument

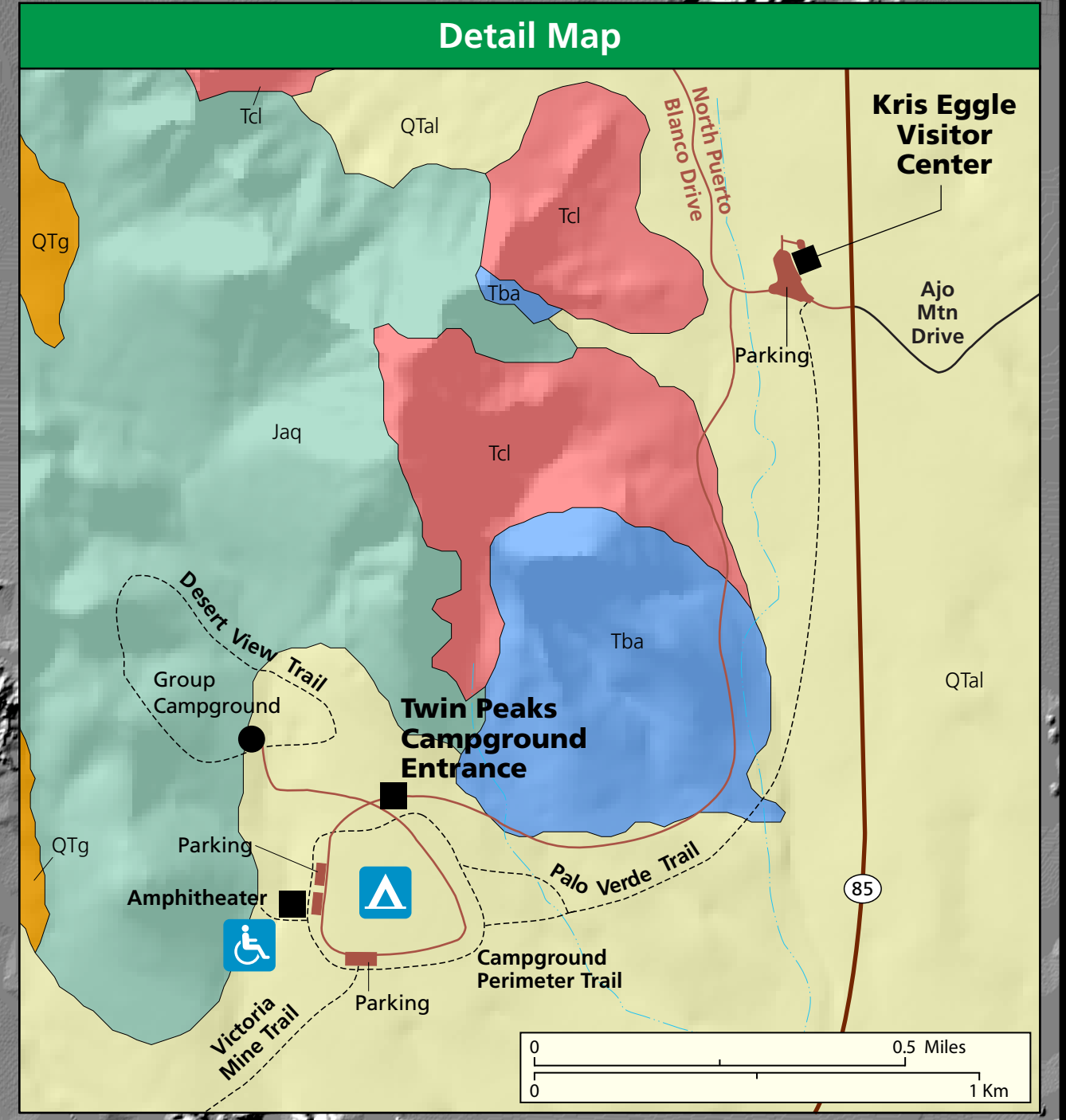
Arizona

National Park Service
U.S. Department of the Interior

Geologic Resources Inventory
Natural Resource Stewardship and Science



Boundaries	Infrastructure	Geologic Units
National Park Service	Point of Interest	QTal - alluvium and colluvium (Holocene, Pleistocene and Pliocene)
Tohono O'odham Nation Reservation	Historic Mine	QTg - terrace gravels (Pleistocene and Pliocene)
Cabeza Prieta National Wildlife Refuge	Town or City	QTls - landslide deposits (Holocene, Pleistocene and Pliocene)
	Trail	Batamote Andesite complex
	Dirt Road	Tba - Batamote Andesite complex, flows, flow breccias, and vent intrusive rocks, undivided (middle Miocene)
	Dirt/Paved Road	Tba - Batamote Andesite complex, basaltic andesite flows and flow breccias (middle Miocene)
	Paved Road	Tbb - Batamote Andesite complex, porphyritic basalt (middle Miocene)
	Highway	Tbai - Batamote Andesite complex, vent intrusive igneous (middle Miocene)
		Tbab - Batamote Andesite complex, vent breccias (middle Miocene)
		Tsvu - Sedimentary and volcanic rocks, undivided (early Miocene)
		Rhyolite of Montezuma's Head
		Tmu - undivided (early Miocene)
		Tmat - crystal-lithic ash-flow tuff (early Miocene)
		Tmr - rhyolite, rhyodacite, and minor dacite flows, flow breccias, and plugs (early Miocene)
		Tma - augite andesite and hypersthene-hornblende andesite of Ajo Range (early Miocene)
		Tmt - tuff and tuff breccia (early Miocene)
		Tmb - porphyritic basalt of Diabolo Mountains (early Miocene)
		Tmd - dacite of the Ajo Range (early Miocene)
		Folds
anticline, approximate		
anticline, concealed		
		Childs Latite and coeval plutonic rocks
		Tcu - undivided (early Miocene)
		Tcl - Childs Latite flows and flow breccias (early Miocene)
		Tca - augite andesite (early Miocene)
		Tcb - olivine-augite basalt and alkali basalt (early Miocene)
		Tcm - monzogranite of Siovi Shuatak Wash and related rocks (early Miocene)
		Rhyolite of Pinkley Peak
		Tpr - biotite rhyolite domes, flows, agglomerates, and tuffs (early Miocene)
		Tprd - rhyolite, rhyodacite, and dacite flows, flow breccias (early Miocene)
		Tpt - lithic lapilli tuff (early Miocene)
		Tpd - dacite agglomerate (early Miocene)
		Tphd - hornblende dacite flows and agglomerate (early Miocene)
		Tps - arkosic and volcanoclastic sandstone (early Miocene)
		Tpa - augite andesite (early Miocene)
		Gneiss of Chagit Vo
		TKcb - blastomylonitic granodiorite gneiss (Late Cretaceous to Early Tertiary)
		TKCg - granodiorite gneiss (Late Cretaceous to Early Tertiary)
		TKcm - blastomylonitic monzogranite gneiss (Late Cretaceous to Early Tertiary)
		TKcp - protomylonitic granodiorite gneiss (Late Cretaceous to Early Tertiary)
		Rocks of La Abra
		Jag - greenschist and metaconglomerate (Late Jurassic)
		Jgr - intrusive rhyolite related to Jgr (Late Jurassic)
		Jgr - heterogeneous, altered granitic rocks (Late Jurassic)
		Jga - granite of Agua Dulce Mountains (Late Jurassic)
		Jgd - granodiorite and quartz diorite (Late and/or Middle Jurassic)
		Japs - quartzofeldspathic phyllite and semischist (Jurassic)
		Jap - Pozo Nuevo granite porphyry (Jurassic)
		Jaq - metamorphosed quartz porphyry (Jurassic)
		Jas - quartzofeldspathic semischist and phyllite (Jurassic)
		TRYXo - Orthogneiss and foliated granite (Triassic? Mesoproterozoic? Paleoproterozoic?)
		MDm - Escabrosa and Martin Formations (Mississippian and Devonian)
		Cs - Bolsa and Abrego Formations (Cambrian)
		Ycs - Chico Shunrie Quartz Monzonite (Mesoproterozoic)
		Xcg - Cardigan Gneiss (Paleoproterozoic)
		Xp - Pinal Schist (Paleoproterozoic)



This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory. It is not a substitute for site-specific investigations.

Source Map
Skinner, L.A., G. Haxel, and P.J. Umhoefer. 2008. Geological reconnaissance at Organ Pipe Cactus National Monument, Arizona (scale 1:24,000). Unpublished digital data. Northern Arizona University, Flagstaff, Arizona.

Source Scale
1:24,000. According to US National Map accuracy standards, features are within 12 m (40 ft) of their true location.

Poster Layout: Thom Curtis and Dylan Rolley (Colorado State University)

Poster Date: December 2021

All Geologic Resources Inventory geologic map data and publications are available at <https://gpo.nps.gov/gripubs>