



EXPLANATION

Quaternary		Landslide	CENOZOIC		Zoroaster Granite	ARCHEAN	
		Laramide Revolution			Stocks and pegmatite dikes intrusive into older formations.		
Triassic		Moenkopi Formation	MESOZOIC		Brahma Schist	Principally metamorphosed basic rocks presumably of volcanic origin.	
							Vishnu Schist
Permian		Kaibab Formation	PALEOZOIC		Contact	Note: The terms Archean and Algonkian are used as subdivisions of Precambrian time. Their long established use in describing the classic geology of Grand Canyon makes this desirable. The United States Geological Survey and the United States National Park Service do not recognize any formal subdivisions of Precambrian time.	
		Toroweap Formation					Gradational contact
		Coconino Sandstone					Fault
		Hermit Shale					Dashed where approximately located; dotted where inferred beneath Paleozoic strata. Direction and amount of dip indicated.
Permian and Pennsylvanian		Supai Formation	PALEOZOIC		Ep-Algonkian Fault	D, downthrown side and amount of displacement.	
		Redwall Limestone					Laramide Fault
Mississippian		Muav Formation	PALEOZOIC		α, first Ep-Algonkian Bright Angel thrust fault.	Includes unclassified Middle Cambrian strata at top. Devonian Temple Butte Limestone occurs here and there filling channels eroded in upper part of the formation.	
		Bright Angel Formation					β, second Ep-Algonkian Bright Angel thrust fault.
		Tapeats Sandstone					γ, Laramide Bright Angel normal (oblique slip) fault.
		Vishnu Schist					Fault with strike slip component
Cambrian		Bright Angel Formation	CAMBRIAN		Bedding plane overthrust fault	Arrows show direction of inclination. Dashed where inferred beneath Paleozoic strata.	
		Tapeats Sandstone					Monocline
		Vishnu Schist					Strike and dip of beds
		Bright Angel Formation					Strike and dip of overturned beds
Upper Precambrian		Rama Formation	ALGONKIAN		Strike and dip of foliation	Approximate Mean Declination, 1961	
		Dox Formation					Strike and dip of vertical foliation
		Shinumo Sandstone					Strike of vertical foliation
		Hakatai Shale					Strike of vertical foliation
		Bass Limestone	ALGONKIAN		Arizonan Revolution and Arizonan Plain.		

