

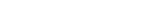
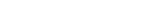
Age	Tectonic Setting	Major Unconformities	Structural and Stratigraphic Development	Estimated Heat Flow	Climate
Quaternary	Foreland basin, compressional deformation		Significantly decreased compression. The Quaternary Kulyab Fm. is only mildly deformed.	50-100 mW/m ²	Hot and arid
Miocene-Pliocene (Neogene)			Increasing compressional deformation in ATB related to protrusion of the Pamir. Detachment of post-salt rocks, thrusting and folding, and deposition of thick orogenic clastics in synclines. Moderate compression and structural growth in ADB. Uplift of marginal highs and wrench faulting along their borders with the basins.		
Eocene-Oligocene (Paleogene)	Intracratonic post-rift sag		Deposition of marine partially dioxic clastics with some carbonate beds.	50 mW/m ²	
Maastrichtian-Paleocene			Deposition of Ghory Fm., carbonates with anhydrites. The formation overlies southern marginal highs, which no more affect sedimentation		
Aptian-Campanian			Structural growth recorded on basin margins.		
Berriasian-Barremian			Mainly marine clastic sedimentation		
Kimmeridgian-Tithonian			Mostly continental clastic sedimentation		
Callovian-Oxfordian			Filling the basin with evaporites and overlying red continental shales.		
Early-Middle Jurassic	Compressional deformation		Marine transgression and carbonate sedimentation in gradually deepening basin. Reef development on basin margins. Oxfordian condensed organic-rich shale deposited in the basin center.	Moderate and humid	
Latest Triassic			Slight extension, limited rifting in Uzbekistan. Continental (earlier) to paralic (later) deposition of carbonaceous clastics with some coal beds		
Late Permian Triassic		Rifted Continental Margin			Collisions of Cimmerian blocks with Asia. Deformation of Asian margin. Structural inversion of some rifts (Bandi Turkestan)
Carboniferous-Early Permian					Extensional rifting. Rifts filled with volcanic and clastic rocks.
Carboniferous-Early Permian			Compressive Hercynian deformation. magmatism, consolidation of basement.		

Figure 2. Chart showing the structural and stratigraphic development of the Amu Darya Basin (ADB) and Afghan-Tajik Basin (ATB) in northern Afghanistan.