



This cross section illustrates our interpretation of Neoproterozoic structures related to the Butte fault system and Chuar syncline. Deposits of the Chuar Group are folded into an asymmetric syncline with a moderately dipping east limb and a gently dipping west limb. Paleozoic rocks that overlie the Chuar Group are not folded by the Chuar syncline indicating the syncline is Precambrian in age. Older rocks of the Unkar Group are also not folded by the Chuar syncline, suggesting that the style of

folding and faulting in Chuar time was unique to the Chuar Group and formed during deposition. Measured sections within the Chuar Group support this hypothesis as suggested by thinning of sedimentary units toward the Butte fault. East of the Butte fault, no known deposits of the Chuar Group have been observed, suggesting that post Chuar Group faulting along the Butte fault stripped the Chuar Group from the east before deposition of the Tapeats Sandstone.