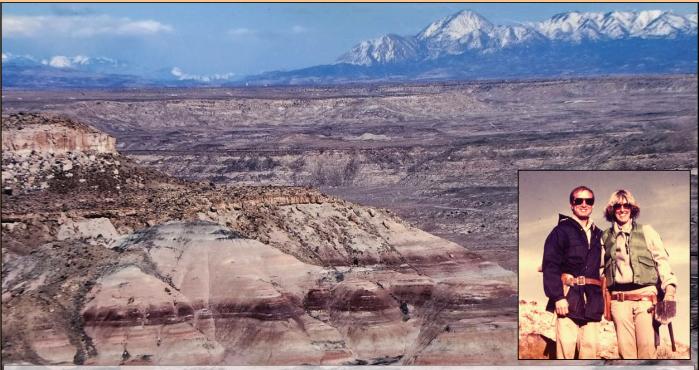
## A TOUR OF JURASSIC LAKE T'OO'DICHI: ALKALINE, SALINE WETLANDS OF THE MORRISON FORMATION IN THE FOUR CORNERS AREA



Brushy Basin Member of the Morrison Formation near Montezuma Creek, UT. This locality, another stop on the field trip, contains tuffs that are variably altered and contain one or more authigenic minerals (e.g., clinoptilolite, analcime).

Dates:	<u>September 23-24, 2023.</u>	
# Days:	2days / 1 night	CHANGED TO
Leaders:	Dr. Christine Turner and Mr. Neil Fishman, Retired USGS	2 DAYS / 1 NIGHT
Organizers:	Kim Gerhardt & others	
Cost:	TBD	
Limit:	25 including leaders. To include FLC students & FCGS members.	
Itinerary:	Day 1: Durango, Four Corners Monument, Beclabito Dome. Overnight Bluff.	
	Day 2: Bluff area, Montezuma Creek, McElmo Canyon (Battle Rock School), Durango.	

**Trip Description:** What rock formation is green, purple, orange and blue, known for dinosaur fossils and hosts uranium? The Morrison Formation! It's all around us in the Four Corners Area, but how much do we really know about the depositional systems that formed it? Join us as we travel from the interior to the margins of the oldest, largest, alkaline, saline wetland in the geologic record with retired USGS geologists Dr. Christine Turner and Neil Fishman. In their interpretation, unusual pore water chemistry related to the alteration of silicic ash from calderas to the west resulted in a diagenetically zoned distribution of zeolitic minerals in the Brushy Basin Member only found west of the Uncompander uplift. We will also observe and discuss the tectonic, stratigraphic and sedimentologic aspects of the entire Morrison (including the Salt Wash and Bluff Sandstone Members) as we traverse the depositional basin in the greater Four Corners region.