Winged Manta

Four Corners Geological Society

Geology of Bisti Badlands, San Juan Co, N.M.

Jim Fassett, John Burris and Chris Heine, Trip Leaders

Nov 12th, 2022

We will examine and discuss the K-T boundary and the controversy over the timing of dinosaur extinction with Jim Fassett, long-time San Juan Basin expert. Then we will continue on to the Bisti Wilderness Area to view and discuss world class badlands topography.

Signup NOW: Limited to 20 Members

Registration Fee is $10/person

Itinerary: Meet in Office Depot Parking Lot in Bodo Park at 7:30am Nov 12 and leave by 8:00. We will view the K-T boundary at two stops, then continue to the Bisti / De-Na-Zin Wilderness Area. We will hike approximately 4 miles roundtrip across relatively flat terrain to view and discuss the geological processes that produced the hoodoos, pedestal rocks and "cracked" or "alien" eggs. We will return to Durango by 5 pm.

Transportation: Carpool in 4 or 5 Personal Vehicles from the Office Depot parking lot.

Meals: B.Y.O. Lunch, snacks and drinks. We will eat lunch on the "trail".

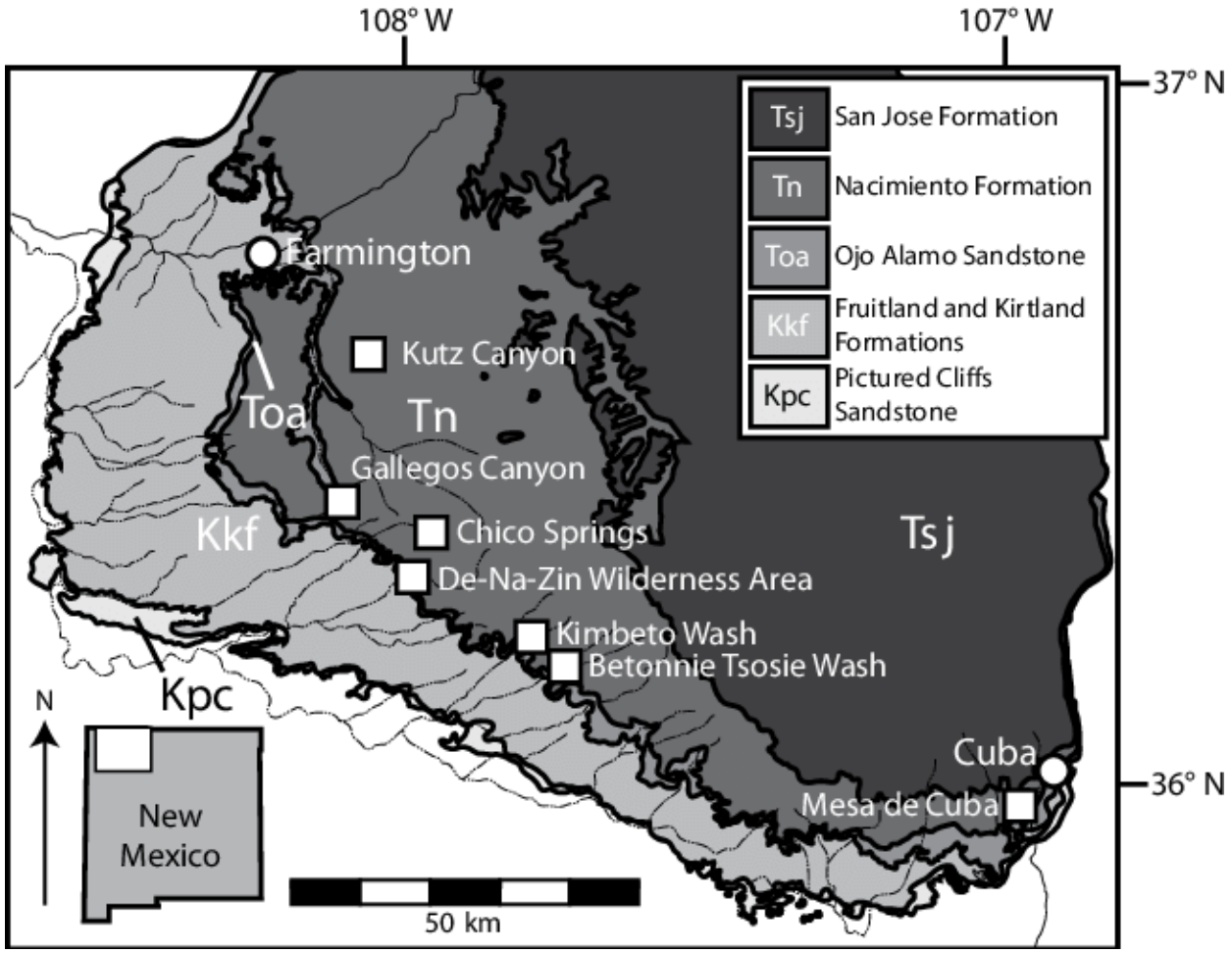
Note: Bring plenty of water, hiking sticks and wear sturdy shoes or hiking boots - lots of uneven ground and loose footing.

Handouts: PDF files of references, links and brief descriptions of stops will be distributed to participants before the trip.

Registration: Must be a member to participate. Also, must sign liability release form and turn in on Saturday morning.

To Become a FCGS Member Click Here **To Register for the Field Trip Click here**

For More info Contact Chris Heine **christian.heine56@yahoo.com** **or** 610-256-4002
or Jim Corken rjcork@aol.com or 970-759-2567



Geologic Map

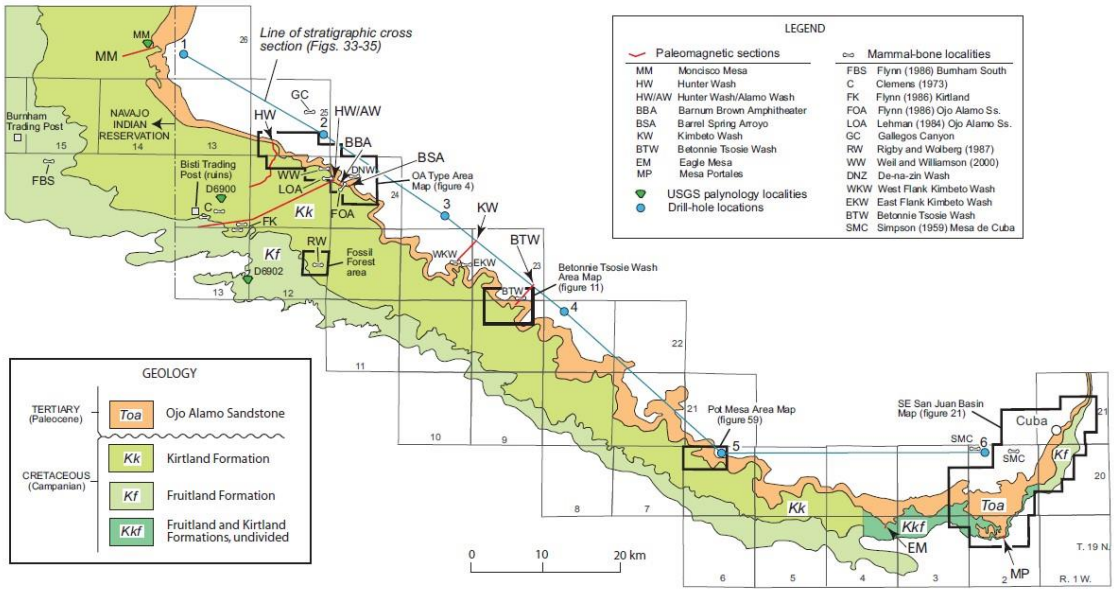


Figure 3. Geologic map of southern San Juan Basin showing locations of paleomagnetic sections through Cretaceous and (or) Paleocene strata plus selected fossil-mammal bone and palynologic localities; mammal-bone localities are approximate. Geology modified from Fassett and Hinds (1971). Areas of large-scale map figures are shown. **Fassett 2009**

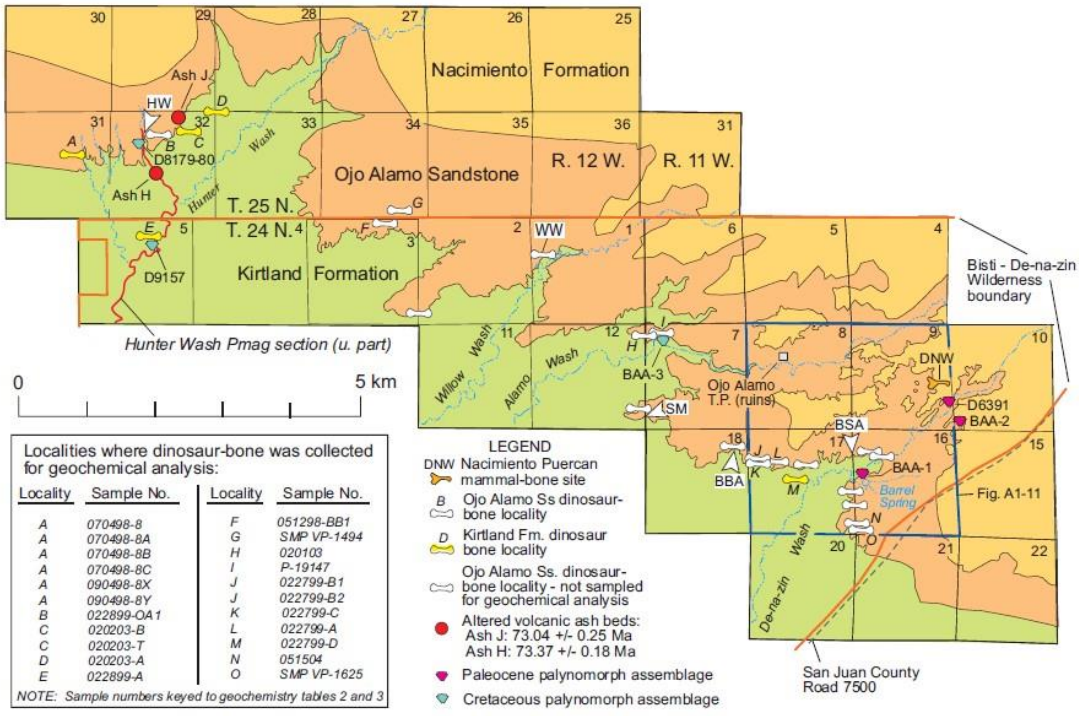


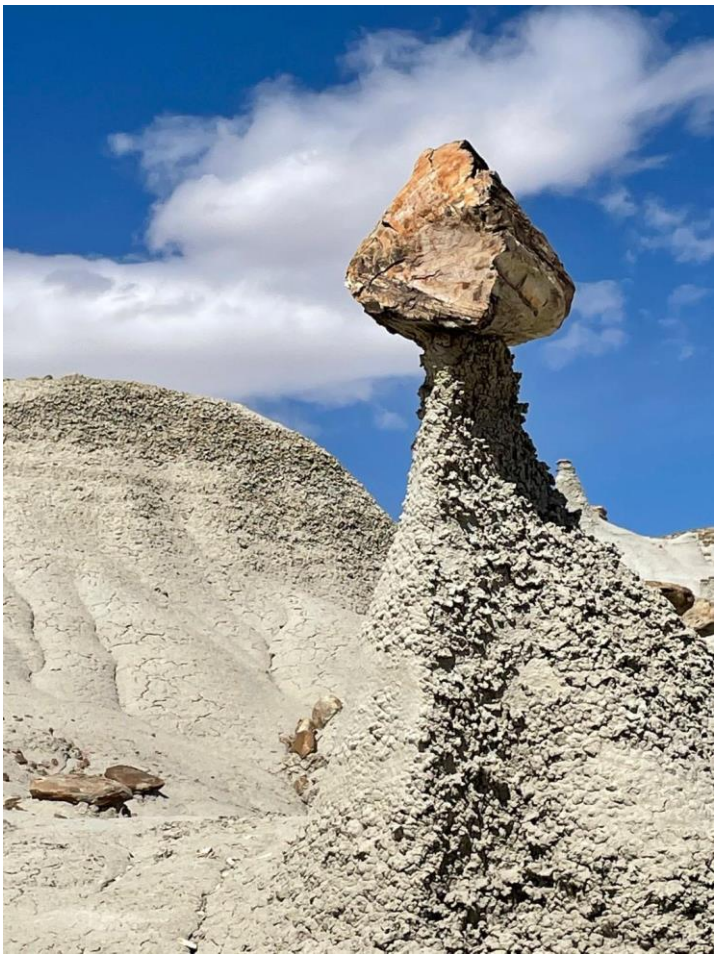
Figure 4. Geologic map of the Ojo Alamo Sandstone type area. White arrowheads point to areas where paleomagnetic data were obtained from the Ojo Alamo Sandstone; HW = Hunter Wash, SM = South Mesa, BBA = Barnum Brown Amphitheater, and BSA = Barrel Spring Arroyo; WW marks the Williamson-Weil mammal quarry. Dinosaur-bone locality I, in the NW 1/4 Sec. 7, T. 24 N., R. 11 W., is locality where 34 bones from a single Hadrosaur were discovered and collected from Ojo Alamo Sandstone. Geology modified from Brown (1982) and Scott et al. (1979); base of Ojo Alamo Sandstone was remapped for this study. Numbers with D prefixes are USGS paleobotany locality numbers. Published palynomorph lists from this area and other areas are in tables in the Appendix. BAA-1 through BAA-3 are palynologic sample localities of Baltz et al. (1966). Radiometric ages for sanidine crystals from altered volcanic ash beds H and J from Fassett and Steiner (1997) and Fassett (2000).

Fassett 2009

Entrance Sign

Petrified Wood with Scale

Alien Eggs



Petrified Wood