

CENTRAL UTAH UT / CO UNCOMPAGHRE GARMESA EAGLE BASIN FRONT RANGE DENVER BASIN

Morrison Deposide: This Jurassic deposide is well defined across Wyoming, Colorado and Utah, and includes parts of New Mexico and Arizona. Provenance was from the Mongollon Rim with a complex of coastal plain, fluvial and lacustrine environments.

San Rafael Group Deposide: Fluvial and eolian systems developed adjacent to a broad Jurassic interior seaway.

Glen Canyon Group Deposide: Huge ergs on west side of Colorado; non-deposition or erosion on east side of the Uncompahgre. No accommodation?

Chinle/ Jelm Deposide: The Tr3 unconformity defined by a couple of periods of base level fall was followed by the Chinle wedge. The basal gravels (Shinarump and Gartra) are far-derived mature quartz-rich beds that suggest the onset of accommodation following a period of non-accumulation or erosion. To the east, these strata may be correlative with portions of the Jelm Fm.

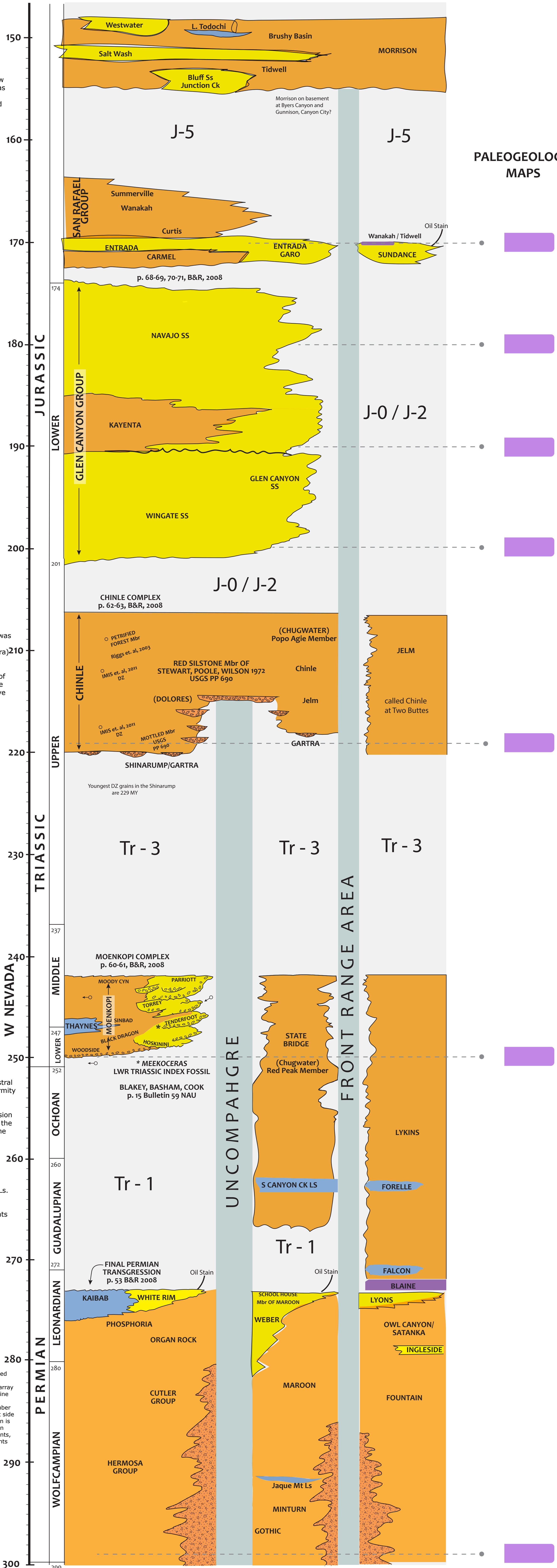
Moenkopi State Bridge Lykins Deposide: Following stabilization of the Ancestral Rockies orogeny, the TR1 unconformity sculpted the land and defined the upper limit of synorogenic sedimentations. This period of erosion was ended by the accumulation of the Moenkopi State Bridge wedge to the west and the Lykins/ Chugwater system to the east and north.v

S Canyon may correlate to Forelle Ls. S Canyon Ls. contains Guadalupian fossils. Falcon Ls. contains conodonts indicating an age of about 270 ma.

Synorogenic Ancestral Rockies Deposide: The Ancestral Rockies tectonic event opened up the Paradox and Eagle basins. These fault-defined basins filled with a complex array of alluvial/ fluvial/ deltaic/ shoreface/ marine strata, including considerable evaporite deposits. There are many formation/ member names applied to these rocks. On the east side of the Front Range, the Fountain Formation is part of this deposide. The Lyons Formation intertongues with the Fountain and represents, like the Weber, an eolian cap that represents the waning phase of this deposide.

Synorogenic

Waning tectonics



Blakey and Ranney, 2008, Ancient Landscapes of the Colorado Plateau, Grand Cyn. Assoc. is cited as B&R, 2008

Blakey R.C., 2019, Penn-Jr sedimentary basins of the Colorado Plateau and Southern Rocky Mountains; Chapter 7