



EXCURSION B

Pre Congress Excursion

The Triassic/Jurassic boundary and Lower to Upper Jurassic stratigraphy and paleontology of northern Sonora, northwest Mexico

January 31 to February 4, 2018.

NUMBER OF PARTICIPANTS: Minimum 8, maximum 10

EXCURSION FEE \$400 US DOLLARS

Leaders:

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INFORMATION ABOUT THE REGION:

The region of the North American Cordillera which includes southeastern California, southern Arizona, southwestern New Mexico and northwestern Mexico is proposed to have experienced at least five tectonic events between Triassic and Jurassic time. These include (1) continental arc magmatism, (2) fore-arc sedimentation, (3) possible truncation and large scale dextral translation of part of the southwestern North American margin, (4) arc extension and rifting, (5) exotic arc or fringing arc accretion, and finally (5) Late Jurassic rift extension followed by Early Cretaceous subsidence due to post-rift

thermal subsidence (Mauel et al., 2011). The geologic mechanisms to explain the proposed events however remain unclear and debated.

In northern Sonora, a transect through scattered outcrops of Triassic and Jurassic stratigraphic sections provide an almost complete record of stratigraphic, paleontologic and tectonic events that occurred during most of the Mesozoic. The older Mesozoic sections crop out in Sierra del Álamo in the western part of the transect, to the east, the Lower Jurassic strata are best represented in the Sierra de Santa Rosa while the Upper Jurassic sections crop out in the Cucurpe region of north-central Sonora. This field-trip proposes to visit the more accessible sections of these three localities and they cover most of the Late Triassic to Late Jurassic history of the region.

FEE 400 US DOLLARS (INCLUDES MEALS, LODGING, TRANSPORTATION FROM HERMOSILLO TO THE LOCALITIES AND RETURN TO HERMOSILLO.)

THE TRANSPORTATION FROM HERMOSILLO TO THE VENUE AT SAN LUIS POTOSÍ, HAS TO BE ARRANGED PERSONALLY.

GENERAL ITINERARY:

WEDNESDAY, 31 January 2018	Arrive to Hermosillo. Stay at Hotel GÁNDARA.
THURSDAY February 1st	Upper Triassic-Lower Jurassic section at Sierra del Álamo. Leave Hermosillo at 6:00 AM. Arrive Sierra del Alamo at 11:00. Back to Caborca for dinner and staying at Motel El Camino
FRIDAY February 2nd	Visit Jurassic sections at Sierra Santa Rosa: 6:00 to 19:00 hrs. Dinner and staying at hotel in Santa Ana.
SATURDAY February 3rd	Visit Upper Jurassic sections in La Colgada section region of Cucurpe. 6:00 to 17:00 hrs. Back to Hermosillo for dinner and staying at Hotel Bugambilias.
SUNDAY, February 4 th	Depart Hermosillo to meeting in San Luis Potosí

INFORMATION ABOUT THE TRIP

GENERAL INFORMATION AND SPECIAL INSTRUCTIONS

Winter is best for field work in Sonora. January through March commonly offers cool nights and moderately hot days with temperatures varying from 0 to 30°C. This time might be rainy if a cold front is bringing humidity from the northeast Pacific, or some water vapor is entering from the Pacific Ocean. Bring a hat and some sun blocker. Vegetation in the countryside areas to visit is typical of the Sonoran Desert with diverse species of sahuaros, cholla and other thorny bushes for which suitable shoes for THE field work is recommended.