





The Geological Evolution of Mexico

James Pindell

Tectonic Analysis Ltd.

ABSTRACT

As part of the American Cordillera, we must examine and try to interpret Mexico's geology and evolution in terms of continental and oceanic arc processes, or "cordilleran tectonics," rather than plate tectonics. The "terrane philosophy" has been attempted since the 1980s, but this has run its course and we now understand enough Mexican geology to return to traditional terms like "block," "fault," "thrust belt," "suture," etc. A map of pre-Triassic basement shows that much of Mexico did not exist in the Triassic; nevertheless, the reconstruction of western Pangea requires an origin for this crust several hundred km to the northwest.