

Quaternary Fault and Fold Database of the United States

As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the [interactive fault map](#).

Pitaycachi fault (Class A) No. 4000

Last Review Date: 2012-07-31

citation for this record: Pearthree, P.A., compiler, 2012, Fault number 4000, Pitaycachi fault, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, <https://earthquakes.usgs.gov/hazards/qfaults>, accessed 12/14/2020 03:10 PM.

Synopsis	
Name comments	
County(s) and State(s)	SONORA, MEXICO
Physiographic province(s)	BASIN AND RANGE
Reliability of location	Good Compiled at 1:62,500 scale. <i>Comments:</i>
Geologic setting	

Length (km)	104 km.
Average strike	
Sense of movement	Normal
Dip Direction	W
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	Sonoran earthquake 1887
Most recent prehistoric deformation	late Quaternary (<130 ka) <i>Comments:</i>
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr
Date and Compiler(s)	2012 Philip A. Pearthree, Arizona Geological Survey
References	<p>#7945 Bull, W.B., Cabo, S.S., Pearthree, P.A, and Quade, J., 1981, Frequencies and magnitude of surface rupture along the Pitaycachi fault, northeastern Sonora, Mexico: Geological Society of America Abstracts with Program, v. 13, no. 2, p. 47.</p> <p>#7946 DuBois, S.M., and Smith, A.W., 1980, The 1887 earthquake in San Bernardino Valley, Sonora—Historical accounts and intensity patterns in Arizona: Arizona Bureau of Geology and Mineral Technology Special Paper 3, 112 p.</p> <p>#7944 McGaroin, T.G., 1987, The 1887 Sonoran earthquake—It wasn't our fault: Arizona Bureau of Geology and Mineral Technology Fieldnotes, v. 17, no. 2, 2 p.</p>

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