

# 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](#).

## Ocotillo fault zone (Class A) No. 503

Last Review Date: 2017-07-01

*citation for this record:* Bryant, W.A., compiler, 2017, Fault number 503, Ocotillo fault zone, 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 03:08 PM.

<b>Synopsis</b>	
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 494A of Jennings (1994).
<b>County(s) and State(s)</b>	IMPERIAL COUNTY, CALIFORNIA
<b>Physiographic province(s)</b>	BASIN AND RANGE LOWER CALIFORNIAN
<b>Reliability of location</b>	Good Compiled at 1:24,000 scale.  <i>Comments:</i> Location of fault from Qt_ft_ver_3-0_Final_WGS84_polyline.shp (Bryant, W.A., written communication to K.Haller, August 15, 2017) attributed to 1:250,000-scale map by Rymer and others (2010).

<b>Geologic setting</b>	
<b>Length (km)</b>	9 km.
<b>Average strike</b>	
<b>Sense of movement</b>	Normal, Right lateral
<b>Dip</b>	
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	
<b>Age of faulted surficial deposits</b>	
<b>Historic earthquake</b>	El Mayor-Cucapah earthquake 2010
<b>Most recent prehistoric deformation</b>	latest Quaternary (<15 ka) <i>Comments:</i>
<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Unspecified
<b>Date and Compiler(s)</b>	2017 William A. Bryant, California Geological Survey
<b>References</b>	#2878 Jennings, C.W., 1994, Fault activity map of California and adjacent areas, with locations of recent volcanic eruptions: California Division of Mines and Geology Geologic Data Map 6, 92 p., 2 pls., scale 1:750,000.  #8524 Rymer, M.J., Treiman, J.A., Kendrick, K.J., Lienkaemper, J.J., Weldon, R.J., Bilham, R., Wei, M., Fielding, E.J., Hernandez., J.L., Olson, B.P.E., Irvine, P.J., Knepprath, N., Sickler, R.R., Tong, X., and Siem, M.E., 2011, Triggered surface slips in southern California associated with the 2010 El Mayor-Cucapah, Baja California, Mexico, earthquake: U.S. Geological Survey Open-File Report 2010-1333, 49 p.,

<http://pubs.er.usgs.gov/publication/ofr20101333>.

#8332 Treiman, J.A., 2012, Faults of the Yuha Desert and the southeastern portion of the Elsinore fault zone, Imperial County, California: California Geological Survey Fault Evaluation Report FER-254, 55 p., website, <ftp://ftp.consrv.ca.gov/pub/dmg/pubs/fer/254/>.

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