

# 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](#).

## San Luis Range fault system (South Margin) (Class A) No. 82

Last Review Date: 2017-05-15

*citation for this record:* Bryant, W.A., compiler, 2017, Fault number 82, San Luis Range fault system (South Margin), 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 01:58 PM.

<b>Synopsis</b>	
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 283, 284, 286, 288, and 304 of Jennings (1994).
<b>County(s) and State(s)</b>	SAN LUIS OBISPO COUNTY, CALIFORNIA SANTA BARBARA COUNTY, CALIFORNIA
<b>Physiographic province(s)</b>	PACIFIC BORDER
<b>Reliability of location</b>	Good Compiled at 1:24,000; 1:40,000; 1:62,500; and 1:250,000 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 1:24,000-scale maps by Dibblee (1994, 1994, 1994, 1994); 1:40,000-scale map by PG&E (2014); 1:62,500-scale map by Hall (1982); and 1:250,000-scale map by Lettis and others (2004).
<b>Geologic setting</b>	
<b>Length (km)</b>	109 km.
<b>Average strike</b>	
<b>Sense of movement</b>	Reverse
<b>Dip</b>	
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	
<b>Age of faulted surficial deposits</b>	
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	late Quaternary (<130 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>	#8083 Dibblee, T.W., Jr., 1994, Geologic map of the Sisquoc quadrangle, Santa Barbara County, California: Dibblee Geological Foundation Map #DF-53, scale 1:24,000.  #8084 Dibblee, T.W., Jr., 1994, Geologic map of the Zaca Lake quadrangle, Santa Barbara County, California: Dibblee Geological Foundation Map #DF-55, scale 1:24,000.

#8085 Dibblee, T.W., Jr., 1994, Geologic map of the Santa Maria and Twitchell Dam quadrangles, Santa Barbara and San Luis Obispo Counties, California: Dibblee Geological Foundation Map #DF-51, scale 1:24,000.

#8086 Dibblee, T.W., Jr., 1994, Geologic map of the Foxen Canyon quadrangle, Santa Barbara County, California: Dibblee Geological Foundation Map #DF-54, scale 1:24,000.

#8114 Hall, C.A. Jr., 1982, Pre-Monterey Subcrop and Structure Contour Maps, Western San Luis Obispo and Santa Barbara Counties, South-Central California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1384, scale 1:62,500.

#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.

#7844 Lettis, W.R., Hanson, K.L., Unruh, J.R., McLaren, M., and Savage, W.U., 2004, Quaternary tectonic setting of south-central coastal California, *in* Keller, M.A., eds., Evolution of sedimentary basins/offshore oil and gas investigations—Santa Maria province: U.S. Geological Survey Bulletin 1995-AA, 21 p., 1 plate, scale 1:250,000.

#7895 Pacific Gas and Electric Company (PG&E), 2014, Offshore low-energy seismic-reflection studies in Estero Bay, San Luis Obispo Bay, and Point Sal areas: PG&E Technical Report GEO.DCPP.RT.14.02, 178 p. Plates 1A and 1B, scale 1:40,000.

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