

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](#).

Lion's Head fault zone (Class A) No. 83

Last Review Date: 2017-05-15

citation for this record: Bryant, W.A., compiler, 2017, Fault number 83, Lion's Head 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 03:15 PM.

Synopsis	
Name comments	Fault ID: Refers to fault number 296 of Jennings (1994).
County(s) and State(s)	SANTA BARBARA COUNTY, CALIFORNIA
Physiographic province(s)	PACIFIC BORDER
Reliability of location	Compiled at 1:24,000 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 map by Dibblee (1989), 1:250,000-scale map by

	Lettis and others (2004), and mapping by Sylvester and Darrow (1979) at unspecified scale.
Geologic setting	
Length (km)	69 km.
Average strike	
Sense of movement	Right lateral
Dip	
Paleoseismology studies	
Geomorphic expression	
Age of faulted surficial deposits	
Historic earthquake	
Most recent prehistoric deformation	late Quaternary (<130 ka) <i>Comments:</i>
Recurrence interval	
Slip-rate category	Unspecified
Date and Compiler(s)	2017 William A. Bryant, California Geological Survey
References	#8076 Dibblee, T.W., Jr., 1989, Geologic map of the Casmalia and Orcutt quadrangles, Santa Barbara County, California: Dibblee Geological Foundation Map #DF-24, scale 1:24,000. #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.

#5989 Sylvester, A.G., and Darrow, A.C., 1979, Structure and neotectonics of the western Santa Ynez fault system in southern California: *Tectonophysics*, v. 52, p. 389-405.

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