

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](#).

Pelican Hill fault (Class A) No. 137

Last Review Date: 2017-05-15

citation for this record: Bryant, W.A., compiler, 2017, Fault number 137, Pelican Hill 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 02:14 PM.

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| Synopsis | |
| Name comments | Fault ID: Refers to Jennings (1994 #2878) number 463. |
| County(s) and State(s) | ORANGE COUNTY, CALIFORNIA |
| Physiographic province(s) | PACIFIC BORDER |
| Reliability of location | Good Compiled at 1:12,000 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 1:12,000-scale maps by Miller and Tan (1976) and Tan and |

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| | Edgington (1976). |
| Geologic setting | |
| Length (km) | 13 km. |
| Average strike | |
| Sense of movement | Right lateral, Normal |
| Dip Direction | V |
| 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 | #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. #8206 Miller, R.V., and Tan, S.S., 1976, Geology and engineering geologic aspects of the south half Tustin quadrangle, Orange County, California: California Division of Mines and Geology, Special Report 126, scale 1:12,000. #8302 Tan, S.S. and Edgington, W.J., 1976, Geology and |

engineering geologic aspects of the Laguna Beach quadrangle,
Orange County, California: California Division of Mines and
Geology Special Report 127, scale 1:12,000.

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