

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](#).

Kolob Terrace faults (Class A) No. 2525

Last Review Date: 1999-10-01

Compiled in cooperation with the Utah Geological Survey

citation for this record: Black, B.D., and Hecker, S., compilers, 1999, Fault number 2525, Kolob Terrace faults, 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 02:55 PM.

Synopsis	Poorly understood middle to late Pleistocene(?) faults in the Kolob Terrace in southwestern Utah.
Name comments	Fault ID: Refers to fault number 10-2 in Hecker (1993 #642).
County(s) and State(s)	KANE COUNTY, UTAH
Physiographic province(s)	COLORADO PLATEAUS
Reliability of	Good

location	Compiled at 1:250,000 scale. <i>Comments:</i> Mapped or discussed by Pillmore (1956 #4589), Cashion (1961 #4446), and Anderson and Christenson (1989 #828). Fault traces from 1:250,000-scale mapping of Anderson and Christenson (1989 #828).
Geologic setting	East- to northeast-trending faults on the Kolob Terrace. The Kolob Terrace is part of a series of cliffs and terraces that rise from the Grand Canyon in Arizona to the summit of the High Plateaus in Utah called the Grand Staircase, which is bounded on the west by the Hurricane fault [998].
Length (km)	12 km.
Average strike	N62°E
Sense of movement	Normal
Dip Direction	NW; SE
Paleoseismology studies	
Geomorphic expression	Scarps on basalt along the fault show about 15 m of displacement (Cashion, 1961 #4446). The relation between the basalt flows (K-Ar dated at 0.36 Ma to 1.4 Ma) and faulting is not firmly established.
Age of faulted surficial deposits	Quaternary
Historic earthquake	
Most recent prehistoric deformation	middle and late Quaternary (<750 ka) <i>Comments:</i> Based on scarp morphology (on rock) and the age of the faulted basalts.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr

Date and Compiler(s)	1999 Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
References	<p>#828 Anderson, R.E., and Christenson, G.E., 1989, Quaternary faults, folds, and selected volcanic features in the Cedar City 1° x 2° quadrangle, Utah: Utah Geological and Mineral Survey Miscellaneous Publication 89-6, 29 p., 1 pl., scale 1:250,000.</p> <p>#4446 Cashion, W.B., 1961, Geology and fuel resources of the Orderville-Glendale area, Kane County, Utah: U.S. Geological Survey Coal Investigations Map C-49, scale 1:62,500.</p> <p>#642 Hecker, S., 1993, Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization: Utah Geological Survey Bulletin 127, 157 p., 6 pls., scale 1:500,000.</p> <p>#4589 Pillmore, C.L., 1956, Photogeologic map of the Orderville Canyon NW quadrangle, Kane and Washington Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Map I-188, scale 1:24,000.</p>

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