Jump to Navigation

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.

Silver Island Mountains (west side) fault (Class A) No. 2381

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 2381, Silver Island Mountains (west side) 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 02:59 PM.**

Synopsis	Poorly understood Quaternary(?) fault along the western side of the Silver Island Mountains, west of the Great Salt Lake Desert in northwestern Utah.
Name comments	**Fault ID:** Refers to fault number 7-4 of Hecker (1993 #642).
County(s) and State(s)	TOOELE COUNTY, UTAH
Physiographic	

Physiographic province(s)	BASIN AND RANGE
Reliability of location	Poor Compiled at 1:250,000 scale. *Comments:* Fault traces from mapping of Moore and Sorensen (1979 #4512)
Geologic setting	Short, generally northeast-trending normal fault along the western side of the Silver Island Mountains, west of the Great Salt Lake Desert in northwestern Utah.
Length (km)	6 km.
Average strike	N19°E
Sense of movement	Normal
Dip Direction	NW
Paleoseismology studies	
Geomorphic expression	Linear range-front contact between bedrock and unconsolidated alluvium.
Age of faulted surficial deposits	Quaternary (?)
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) *Comments:* Based on fault control of the bedrock-alluvium contact.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr *Comments:* Poor geomorphic expression (linear range-front only) indicates a low slip rate.
Date and	1999

Compiler(s)	Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
References	#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. #4512 Moore, W.J., and Sorensen, M.L., 1979, Geologic map of the Tooele 1° x 2° quadrangle, Utah: U.S. Geological Survey Miscellaneous Investigations Map I-1132, scale 1:250,000.