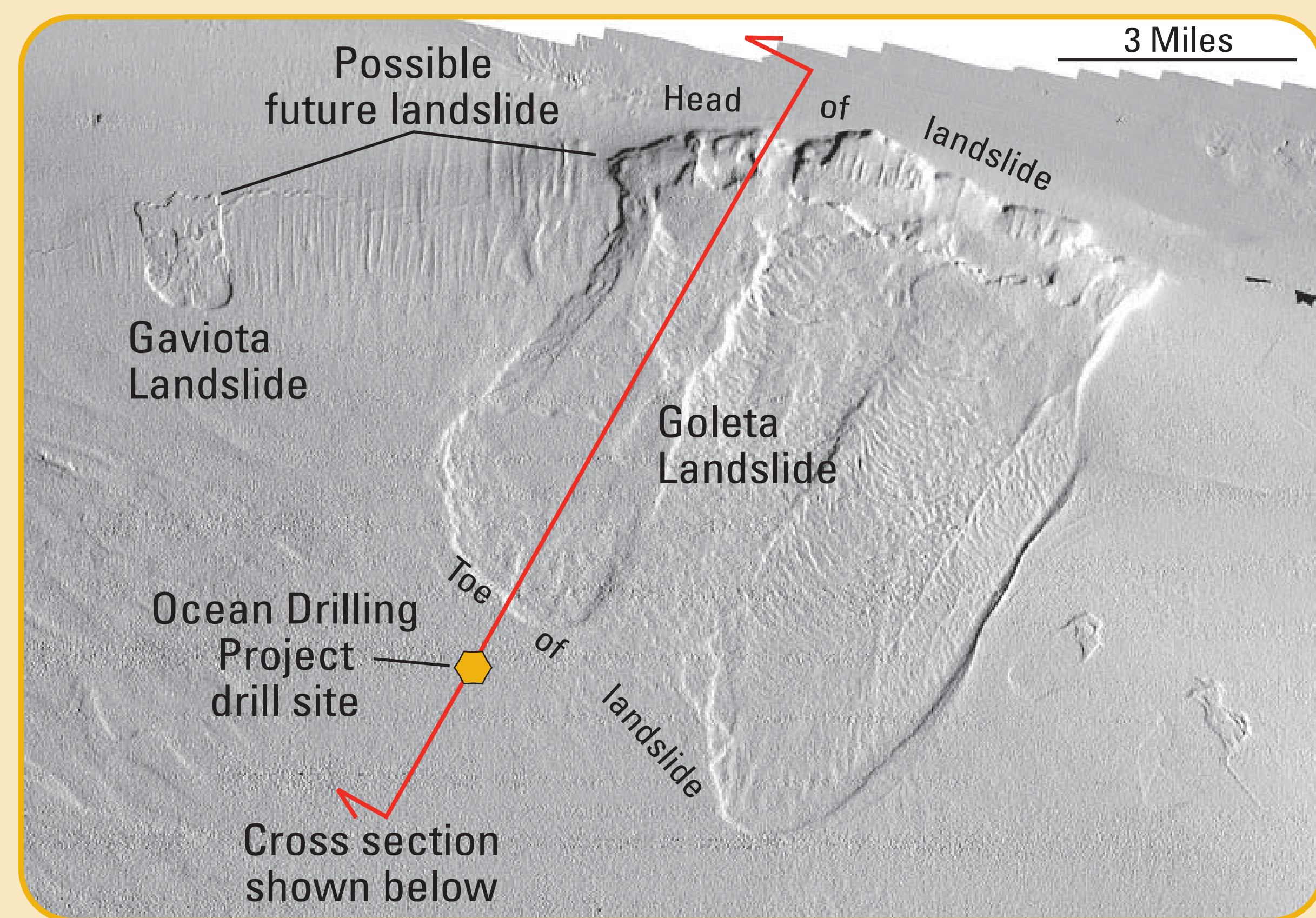


Tsunami Hazards in the Santa Barbara Channel

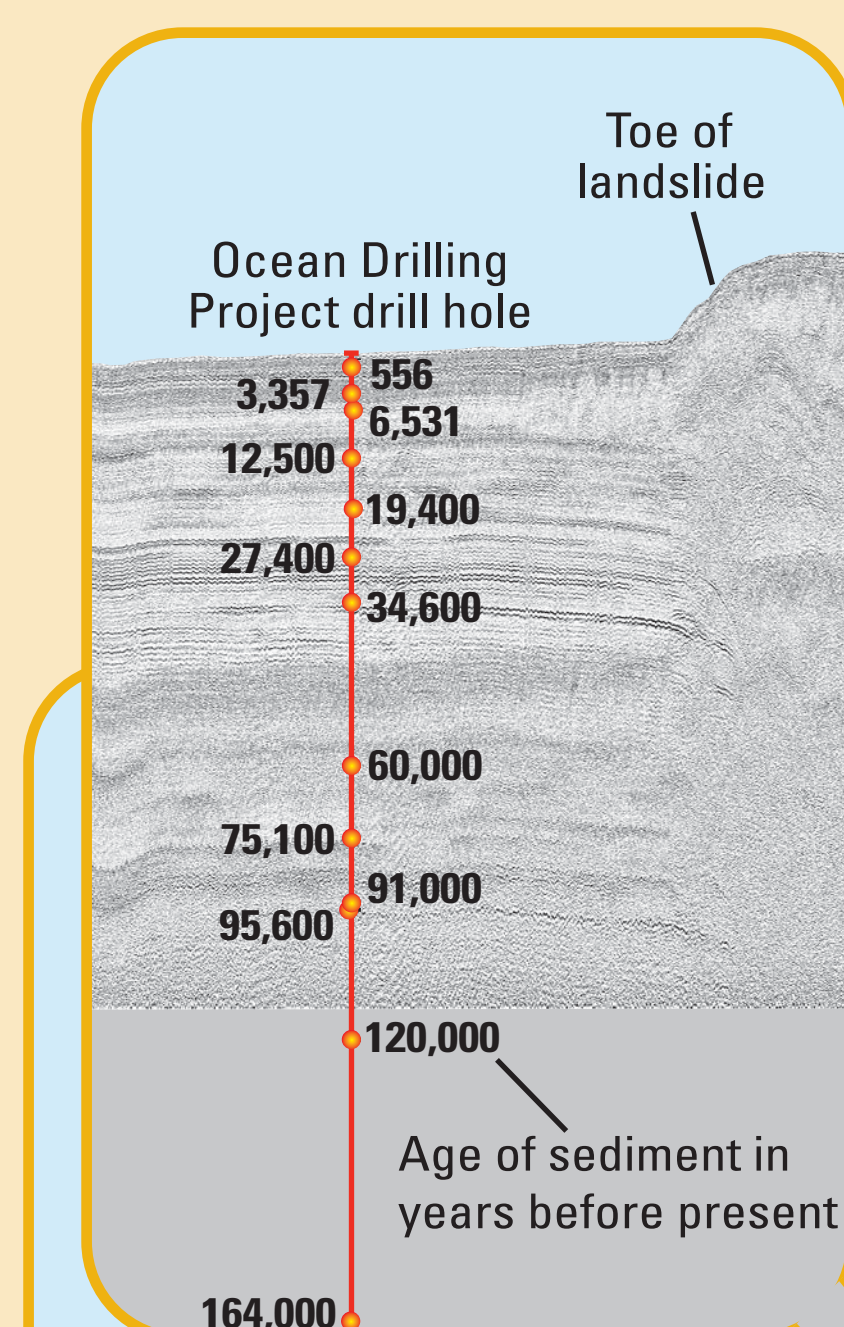
1993 - 2003

The USGS, in cooperation with Moss Landing Marine Laboratory, mapped the slopes of the Santa Barbara Channel using sonar. We combined this with deep sea drilling records and seismic records to make these maps.

Large earthquakes can cause the very large underwater landslides that we found in the channel. These landslides can cause large tsunamis. A large earthquake in Santa Barbara in 1812 was followed by a tsunami that wiped out many coastal villages and destroyed ships in the harbor.



Underwater landslides offshore from Santa Barbara.



The cross section below shows a thick layer of landslide deposits dating back over 160,000 years. Based on these maps, we think future earthquakes could cause large submarine landslides and devastating tsunamis.



Location of Santa Barbara Channel

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More information on the web: <http://walrus.wr.usgs.gov/posters>