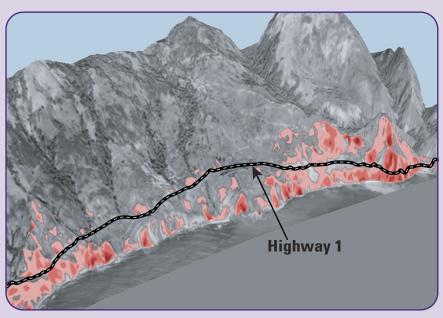


Big Sur Coastal Landslides

2000 - 2003

The USGS studied air photos of the Big Sur coast taken in 1942 and 1994, in cooperation with the California **Department of Transportation** (Caltrans) and the University of California at Santa Cruz (UCSC).

We used the photographs to create 3D computer models. By comparing the two models, we can see the differences caused by landslides over 52 years. Using these differences, we could identify hazardous coastal areas and measure the amount of landslide sediments that go into the ocean.



3D model of Lopez Point showing landslide areas in red



Lopez Point, Big Sur 1942



The results of this study helped Caltrans and the **Monterey Bay National Marine Sanctuary develop** a plan to maintain scenic Highway 1 while protecting the marine sanctuary.



Location of photos

Lopez Point, Big Sur 1994 **Coastal Landslides**

> **Study Participants** Cheryl Hapke, USGS Krystal Green, USGS Kate Dallas, UCSC

Gary Griggs, UCSC



Processing and analyzing the digital files

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