Shaded-Relief Bathymetry, Offshore of Refugio Beach Map Area, California

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2015

The shaded-relief map of the offshore of Refugio Beach map area in southern California was generated using bathymetric lidar data and LiDAR bathymetric data collected by U.S. Geological Survey (USGS), U.S. Army Corps of Engineers (USACE), and NOAA in 2008 and 2009, using the SHOALS-1000T and Leica ALS60 systems. These mapping systems combine both bathymetry from the seafloor and topography from the land to create a shaded-relief view. The map is intended for use by scientists, engineers, and others who need to understand the bathymetric and topographic features in this region. The map is not intended for navigational use.

The bathymetric contours were generated from a modified 10-m-resolution bathymetric surface where a statistical filter was applied to discriminate seafloor returns. The bathymetric contours range from 0 to 1200 meters, with a contour interval of 10 meters. The map is useful for understanding the depth and contours of the seafloor in this region.

The topographic features are shown in yellow shading, and the shoreline is marked with a black line. The map also includes a scale bar and a north arrow to provide orientation.