One colored shaded-relief map of the Offshore of Santa Barbara map area, California, is presented in this Scientific Investigations Map. The map area is shown in Figure 1. The Offshore of Santa Barbara map area includes the nearby continental shelf and adjacent inner continental slope. This offshore area encompasses a range of bathymetric settings, including continental margin canyons, continental rise areas, and basins. The map includes bathymetric contours, coastline, and land area. The bathymetric data were collected by Fugro Pelagos in 2009. The coastline and land area were obtained from the USGS Coastal Change Analysis Program (CCAP). The map also includes light and dark areas, which indicate the illumination direction from a false sun. The false sun is positioned at 300° azimuth and 45° above the horizon. The direction of illumination is shown in Figure 1. The data were processed using proprietary software packages to remove noise and improve the quality of the bathymetric data. The map was created using ArcGIS software and is available for download from the U.S. Geological Survey (USGS) website. The map is intended for use by researchers, educators, and policymakers to better understand the bathymetric features of the Offshore of Santa Barbara area, California.