**Color Key**

- **Red**: 3000 m
- **Orange**: 2000 m
- **Yellow**: 1500 m
- **Green**: 1000 m
- **Blue**: 500 m
- **Deep Blue**: 200 m
- **Blue and Green**: shallower

**Depth (in meters) and illumination (light intensity, colors that would appear in daylight) are as indicated, drawing from data sets**

**EXPLANATION**

- **Illumination from above**
- **Illumination from below**
- **Illumination from both above and below**

**DISCUSSION**

The California Continental Borderland is the complex continental margins in southern California. Data extracts from two continuous sediment cores (North California Borderland and South California Borderland) were used in this study. The California Continental Borderland includes several marine provinces, including the continental shelf, slope, and rise. The continental shelf is the shallowest part of the margin, typically less than 200 meters deep, and is characterized by extensive areas of sand and mud. The continental slope is the transition zone between the shelf and the rise, typically between 200 and 2000 meters deep, and is characterized by a variety of sedimentary features, including mud volcanoes, seamounts, and submarine canyons. The continental rise is the deepest part of the margin, typically greater than 2000 meters deep, and is characterized by a variety of sedimentary features, including mud volcanoes, seamounts, and submarine canyons.

**REFERENCE CITED**


**ACKNOWLEDGMENTS**

This study was funded by the National Oceanic and Atmospheric Administration (NOAA), National Centers for Environmental Information (NCEI), and the Ocean Exploration Trust’s Nautilus Exploration Program. Additional funding was provided by the University of Washington (UW), University of California at Santa Cruz, and the Scripps Institution of Oceanography (SIO). The authors would like to thank the following institutions for their support: USGS, UW, SIO, and OET. The authors also thank the following organizations for their support: O&M, SIO (USGS), UW (USGS), NCEI, NOAA, and OET.

**Note**

All data and information contained herein are subject to the U.S. Copyright Act of 1976 and are subject to the terms and conditions of the U.S. Geological Survey's open data policy. The U.S. Geological Survey assumes no liability for damage that may result from any misuse of this data or information. This product is not intended for navigational use.

**Manuscript approved for publication May 3, 2021**

**Edited by Phil Frederick; digital cartographic production by Katie Sullivan**

**GIS and digital cartography**

By Peter Dartnell1, Emily C. Roland2, Nicole A. Raineault3, Christopher M. Castillo,4 James E. Conrad,1 Renato Kane,3, Daniel S. Brothers,1 Jared Kluesner,1 and Maureen A.L. Walton1

2021