Shaded-Relief Bathymetry, Offshore of Point Conception Map Area, California

By
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1/21 0 1 MILE
BATHYMETRIC CONTOUR INTERVAL 10 METERS

REFERENCES CITED
California State University, Monterey Bay, Seafloor Mapping Lab, 2016, California TopoBathy Merge Project: National Oceanic and Atmospheric Administration, 2013, 2013 NOAA Coastal California TopoBathy Merge (available at http://www.ngdc.noaa.gov/docucomp/page?xml=NOAA/NESDIS/NGDC/Lidar/iso/xml/2013_CA_TopoBathy_m2612.xml&view=getDataView&header=http://www.ngdc.noaa.gov/docucomp/page?xml=NOAA/NESDIS/NGDC/Lidar/iso/xml/2013_CA_TopoBathy_m2612.xml&view=getDataView&header=). Bathymetric contours by Peter Dartnell, 2016 and by U.S. Army Corps of Engineers (USACE) Joint Lidar Bathymetry Technical Center of Expertise in 2009 and 2010. Bathymetric contours by Peter Dartnell, 2016 (data collected by Fugro Pelagos in 2008, using a combination of multibeam-echosounder data and National Oceanic and Atmospheric Administration, National Centers for Environmental Information database, accessed August 2016 at http://seafloor.otterlabs.org/SFMLwebDATA_SURVEYMAP.htm. Estimated Trajectory (SBET) files were postprocessed from logged POS-MV files. Sound-velocity profiles were collected with an Applied Microsystems (AM) SVPlus sound velocimeter. Soundings were corrected for vessel motion such as heave, pitch, and roll, with navigational input from GPS receivers. Smoothed Best Approximation (SBA) bathymetry was then applied to the bathymetric surface to create the shaded-relief imagery. Note that the ripple and downwelling illumination were applied to the surface of this shaded-relief map. The onshore-area image was generated by applying the same illumination (azimuth of 300° and from 45° above the horizon) to 2-m-resolution topographic-lidar data from National Oceanic and Atmospheric Administration, 2013. Pseudocolored topography was generated from U.S. Navy 1:25,000 bathymetric contours. The position of false sun is at 300° azimuth, 45° above the horizon. None of the information in the database was used to generate the shaded-relief map. Data and information databases are archived and maintained by the California State University, Monterey Bay, Seafloor Mapping Lab. Reference: Peter Dartnell and Rikk G. Kvitek, 2018, Shaded-relief bathymetry, Offshore of Point Conception map area, California, U.S. Geological Survey Open-File Report 2018–1024, 14 p., http://dx.doi.org/10.3133/ofr20181024.

EXPLANATION

- Relative depth
- Areas near shoreline not mapped owing to insufficient high-resolution multibeam-echosounder data.
- Map location
- Map scale
- Data-collecting agencies (FP, Fugro Pelagos; USACE, U.S. Army Corps of Engineers) and dates of surveys if known.
- X and Y axes on the same plotter, and paper may change size due to atmospheric conditions; therefore, scale and proportions may not be true on plots of this map.