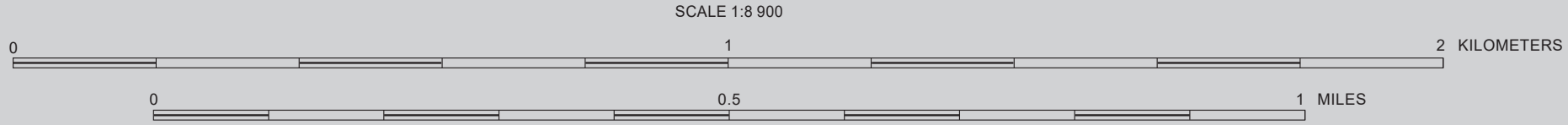


Universal Transverse Mercator projection, zone 10 north
North American Datum of 1983
NOT INTENDED FOR NAVIGATIONAL USE



Colored shaded-relief bathymetry by Peter Dartnell,
onshore imagery orthomosaic by Joshua B. Logan
(Logan and others, 2020)
Digital cartography by Peter Dartnell
Edited by Kathryn Pauli; digital cartographic production
by Joseph Mangano
Manuscript approved for publication August 12, 2022

DISCUSSION

The Carr wildfire began on July 23, 2018, and burned almost 300,000 acres (approximately half on Federal lands) in northern California during the subsequent 6-week period. Over 97 percent of the area within Whiskeytown National Recreation Area, California, burned during the 2018 Carr wildfire, including the entire landscape that surrounds and drains into Whiskeytown Lake. Shortly after the Carr wildfire ended, the U.S. Geological Survey (USGS) began investigations into the landscape responses, such as changes in erosion and sediment deposition, that occurred after the fire. This study focused on the collection and processing of bathymetric data and onshore aerial imagery in and around Whiskeytown Lake, California, to support wildfire science after the fire. A related study investigated post-fire sediment yields from three watersheds that drain into the Whiskeytown Lake (East and others, 2021).

Bathymetric data for this map were collected in September 2020, and the surrounding orthomosaic (Logan and others, 2020) was generated from aerial images collected in June 2019. The bathymetric data are color-coded for depth with reds shallower and blues deeper, while the orthomosaic is shown in true visible colors. Some areas nearshore were not mapped owing to insufficient bathymetric data. Other gaps in the bathymetric data are due to data-collection or processing artifacts. Submerged drainage patterns are visible in the bathymetric data, as are submerged roads and paths. However, the State Highway 299 bridge over the lake is not shown in the imagery orthomosaic.

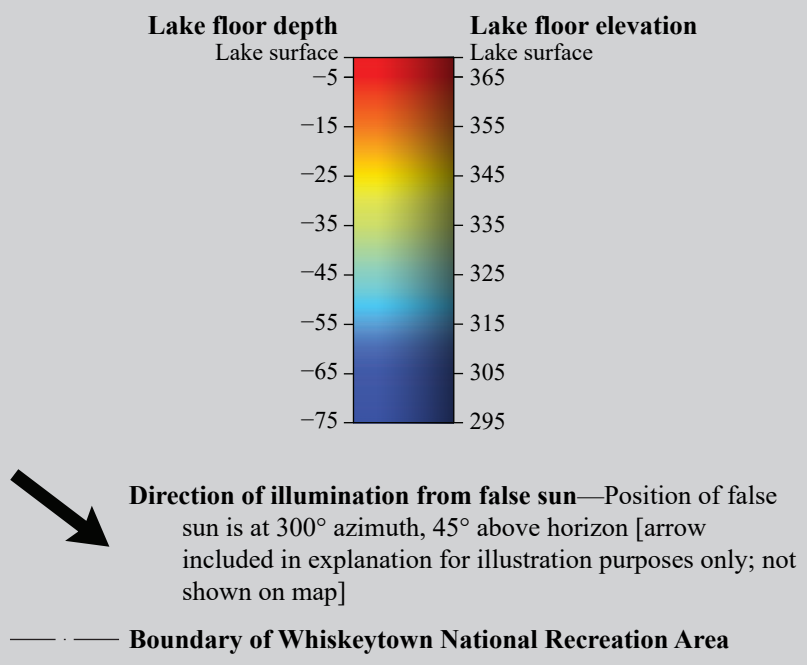
This study was funded by the USGS through the Additional Supplemental Appropriations for Disaster Relief Act of 2019 (Public Law 116–20, 113 Stat. 871). Additional support was provided by the USGS Coastal Marine Hazards and Resources Program and USGS Landslide Hazards Program, with support from the National Park Service (permit number WHIS-00139).

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Logan, J.B., Dartnell, P., East, A.E., and Ritchie, A.C., 2020, Bathymetry, topography and orthomosaic imagery for Whiskeytown Lake, northern California (version 2.0, July 2021): U.S. Geological Survey data release, <https://doi.org/10.5066/9PHEDYNT>.

EXPLANATION OF MAP SYMBOLS

Lake floor depth, lake elevation, and illumination—Depths are in meters relative to lake surface at time of mapping (2020). Elevations are in meters above North American Vertical Datum of 1988. Bright areas are illuminated, facing false sun; dark areas are in shadow, facing away from false sun.



Colored Shaded-Relief Bathymetric Map and Surrounding Aerial Imagery of Whiskeytown Lake, California

By
Peter Dartnell, Joshua B. Logan, and Amy E. East
2022

USGS 2022-1226 (online)
<https://doi.org/10.3133/si3493>

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Digital files available at <https://doi.org/10.3133/si3493> and <https://doi.org/10.5066/9PHEDYNT>.
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Associated data for this publication: Logan, J.B., Dartnell, P., East, A.E., and Ritchie, A.C., 2020, Bathymetry, topography and orthomosaic imagery for Whiskeytown Lake, northern California: U.S. Geological Survey data release, <https://doi.org/10.5066/9PHEDYNT>.