WATER-RESOURCES INVESTIGATIONS REPORT 00–4164
Perspective views—SHEET 2 of 2
Gardner, J.V., Dartnell, Peter, and others, 2000
Bathymetry and selected perspective views of central San Francisco Bay, California

PERSPECTIVE VIEWS

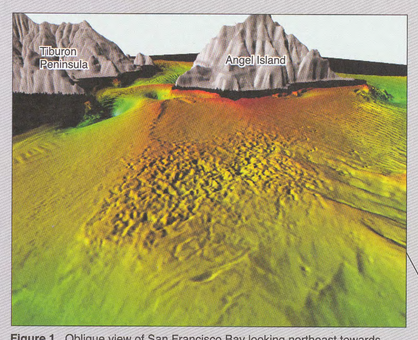


Figure 1. Oblique view of San Francisco Bay looking northeast towards Angel Island. The blocky area in foreground is a large debris avalanche shed off Angel Island averaging 2.6 kilometers long by 1.15 kilometers wide and 2 to 5 meters thick. Smooth area between the debris flow and Angel Island is an area that was dredged for Treasure Island fill in the late 1930's. Vertical exaggeration is 9X. Distance across bottom of image is 1.4 kilometers.

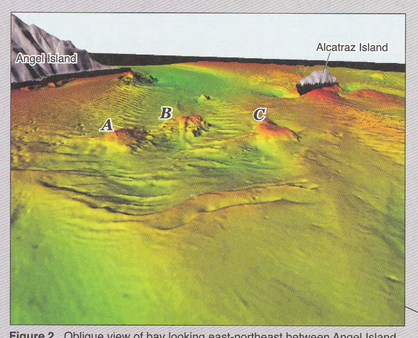


Figure 2. Oblique view of bay looking east-northeast between Angel Island and Alcatraz Island. The three rock formations in the center of the image are *(A)* Harding Rock, *(B)* Shag Rock, and *(C)* Arch Rock. Vertical exaggeration is 9X. Distance across the bottom of the image is 1.6 kilometers.

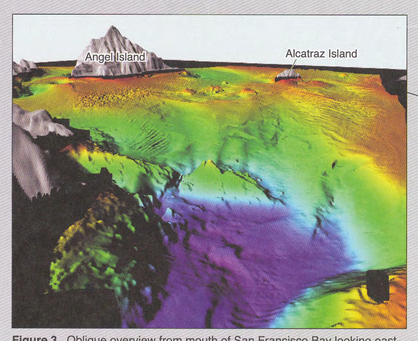
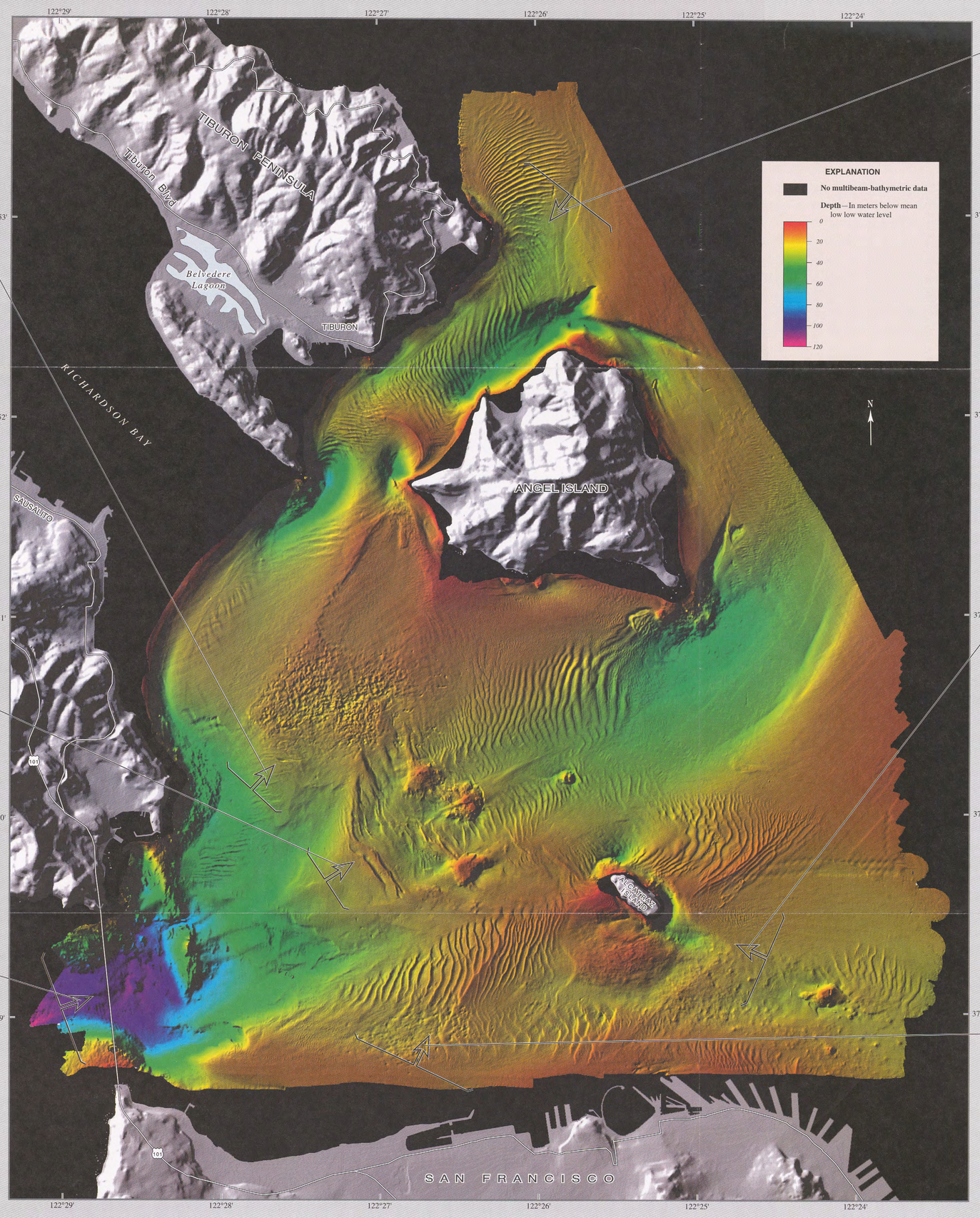


Figure 3. Oblique overview from mouth of San Francisco Bay looking east-northeast towards Alcatraz Island and Angel Island. Harding, Shag, and Arch Rocks (see Figure 2) can be seen between Alcatraz and Angel Islands. Vertical exaggeration is 9X. Distance across the bottom of the image is 1.3 kilometers.



Base from U.S. Geological Survey digital data, 1:24,000 and 1:100,000, 1969–85
Universal Transverse Mercator projection, Zone 10, WGS84 spheroid.
Area Northeast of Alcatraz Island provided by National Oceanic and Atmospheric Administration (NOAA.) Shaded-relief base from 1:24,000-scale Digital Elevation Model; sun illumination from northwest (300 degrees) at 30 degrees above horizon

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Multibeam-bathymetry data was acquired in early 1998 by U.S. Geological Survey in cooperation with University of New Brunswick.
Pixel resolution is 20 meters.
More information available on World Wide Web at <http://walrus.wr.usgs.gov/outreach/seamap/> [last modified April 1998]

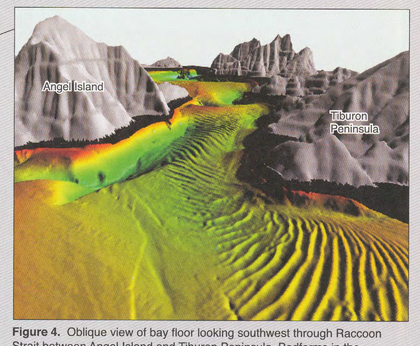


Figure 4. Oblique view of bay floor looking southwest through Raccoon Strait between Angel Island and Tiburon Peninsula. Bedforms in the foreground and in Raccoon Strait are created by tidal currents in the bay. Bedforms in the foreground have heights up to 3 meters and a crest-to-crest distance of about 45 meters. Vertical exaggeration is 9X. Distance across bottom of image is 890 meters.

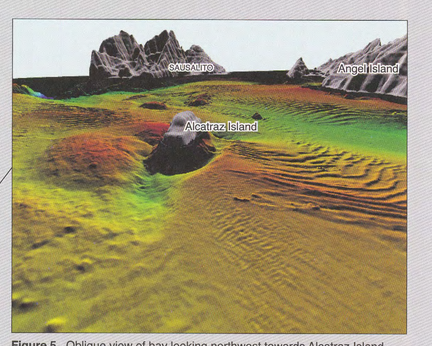


Figure 5. Oblique view of bay looking northwest towards Alcatraz Island. The mound to the left of Alcatraz Island is a dredge disposal site. The large and small bedforms in the foreground and to the right of Alcatraz Island are created by tidal currents within the bay. Vertical exaggeration is 9X. Distance across bottom of the image is 940 meters.

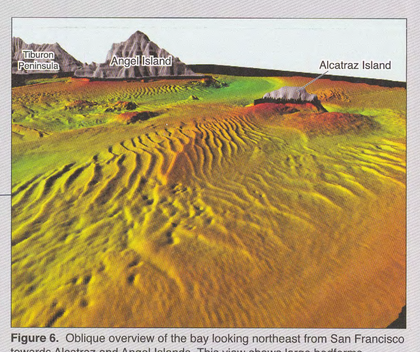
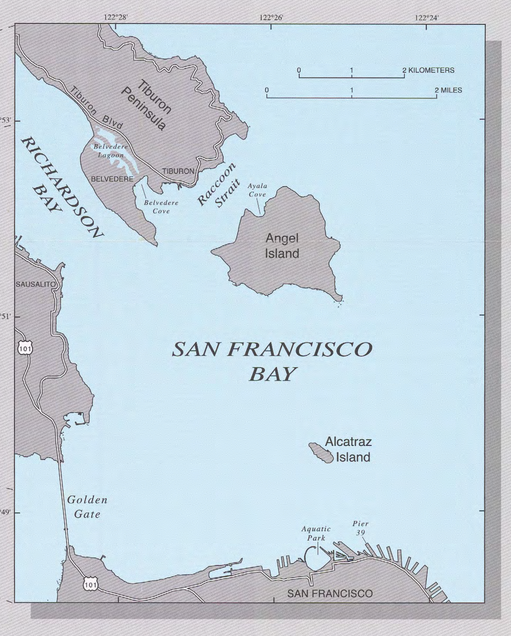


Figure 6. Oblique overview of the bay looking northeast from San Francisco towards Alcatraz and Angel Islands. This view shows large bedforms reaching heights up to 2 meters and a crest-to-crest distance of about 50 meters with smaller bedforms (about 12-centimeters high and a crest-to-crest distance of 15 meters) superimposed in the foreground. The mound to the right of Alcatraz Island is a dredge disposal site. Vertical exaggeration is 9X. Distance across the bottom of image is 910 meters.



US GEOLOGICAL SURVEY
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BATHYMETRY AND SELECTED PERSPECTIVE VIEWS OF CENTRAL SAN FRANCISCO BAY, CALIFORNIA

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