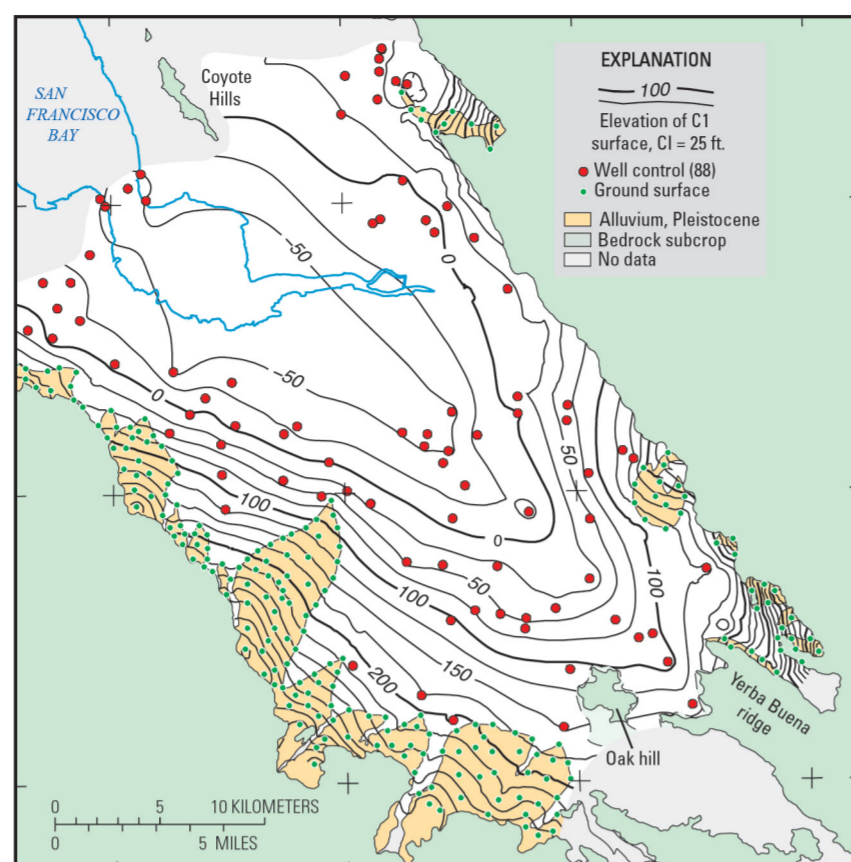
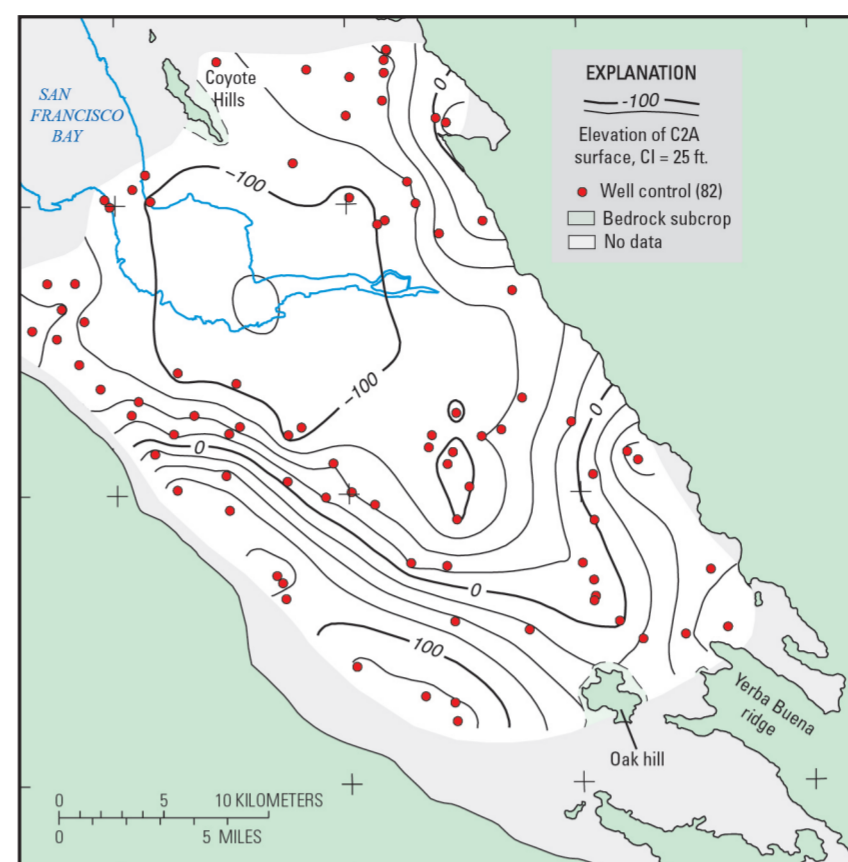




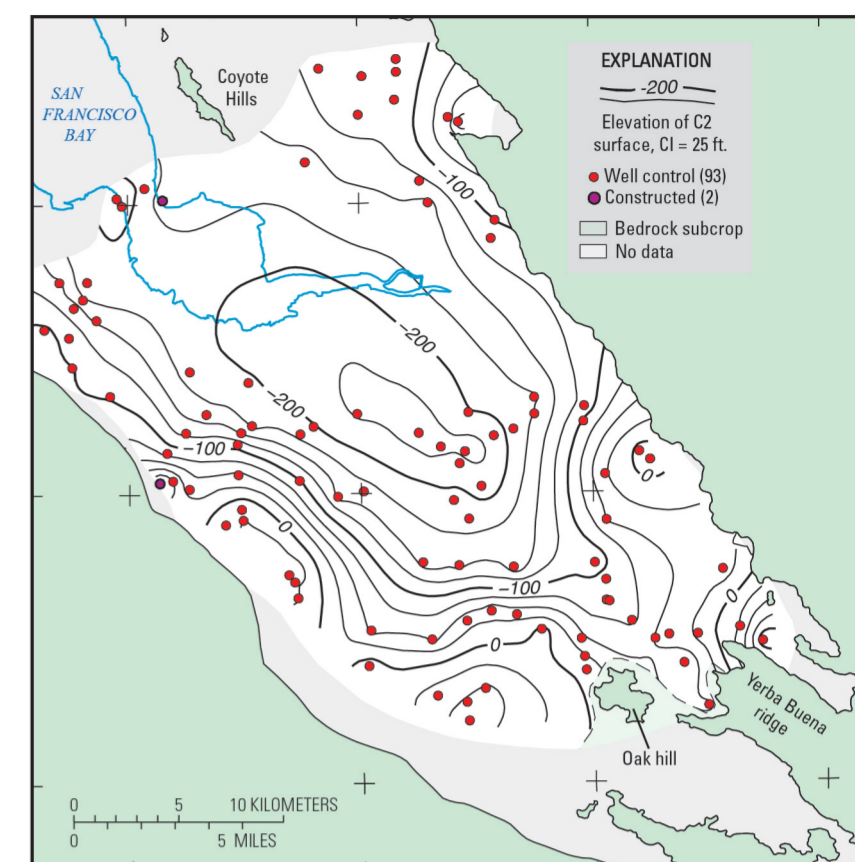
1. Topographic surface



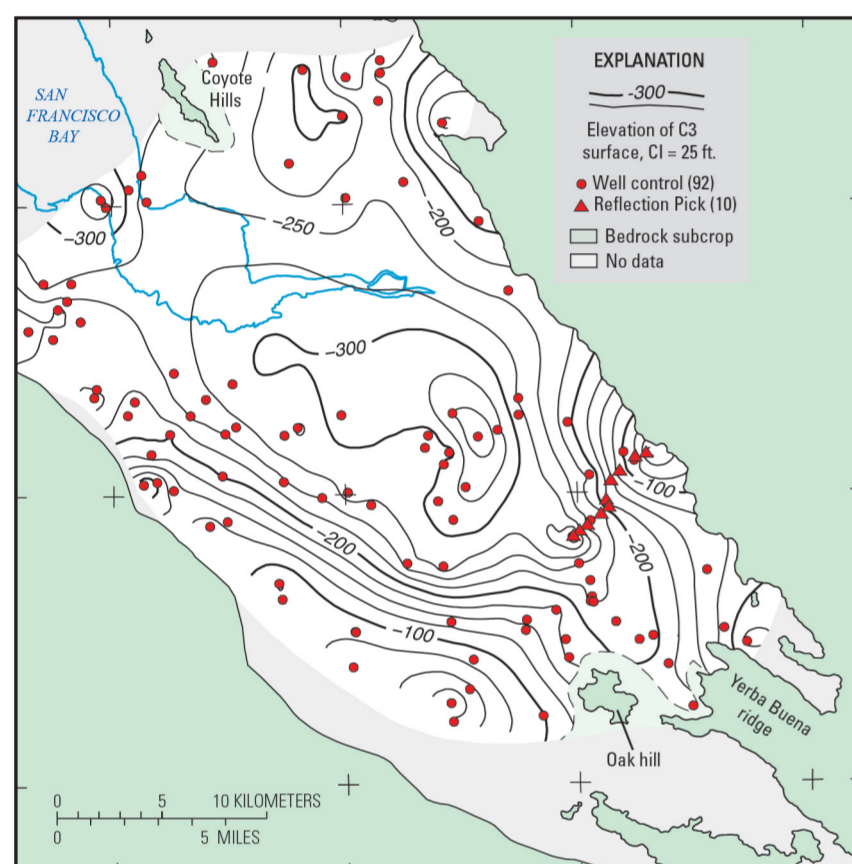
2. Base of cycle 1



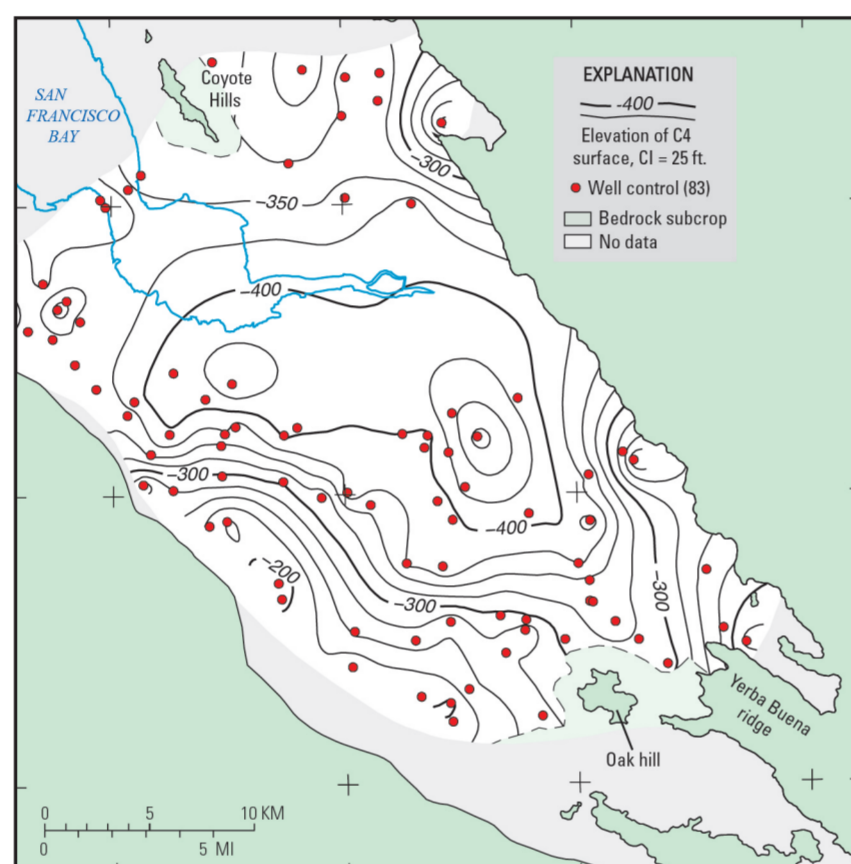
3. Base of cycle 2a



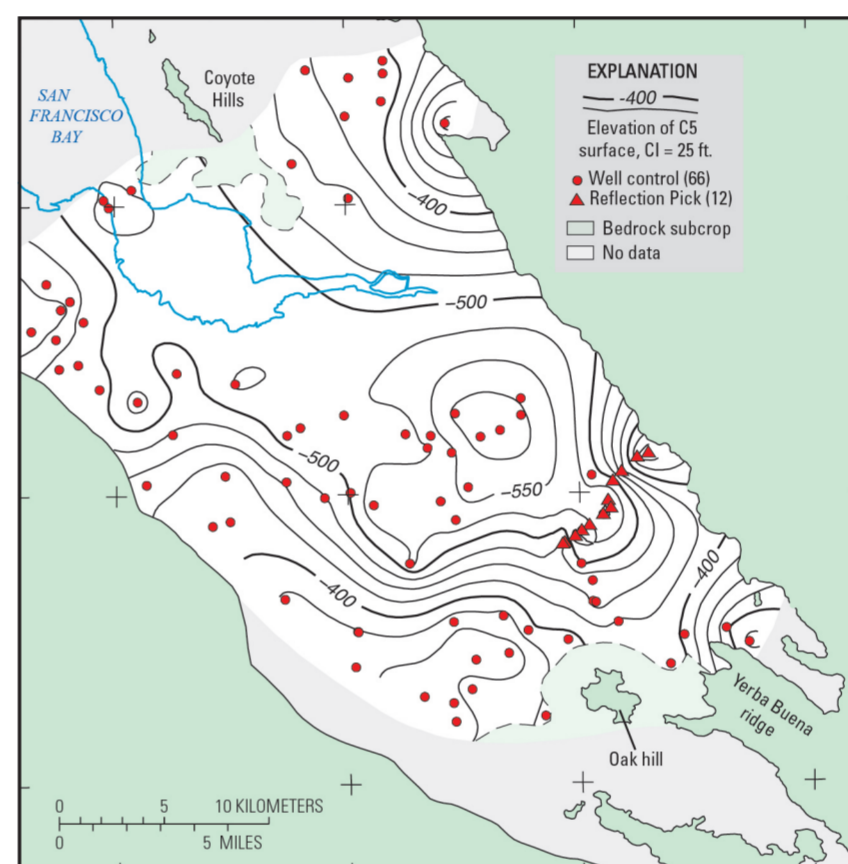
4. Base of cycle 2



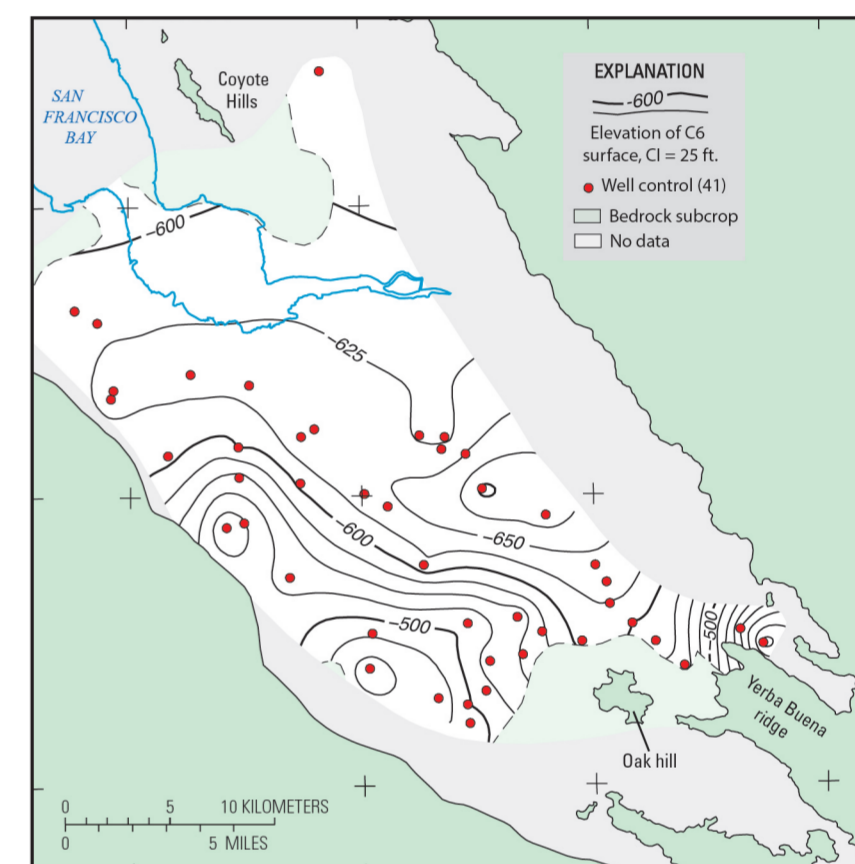
5. Base of cycle 3



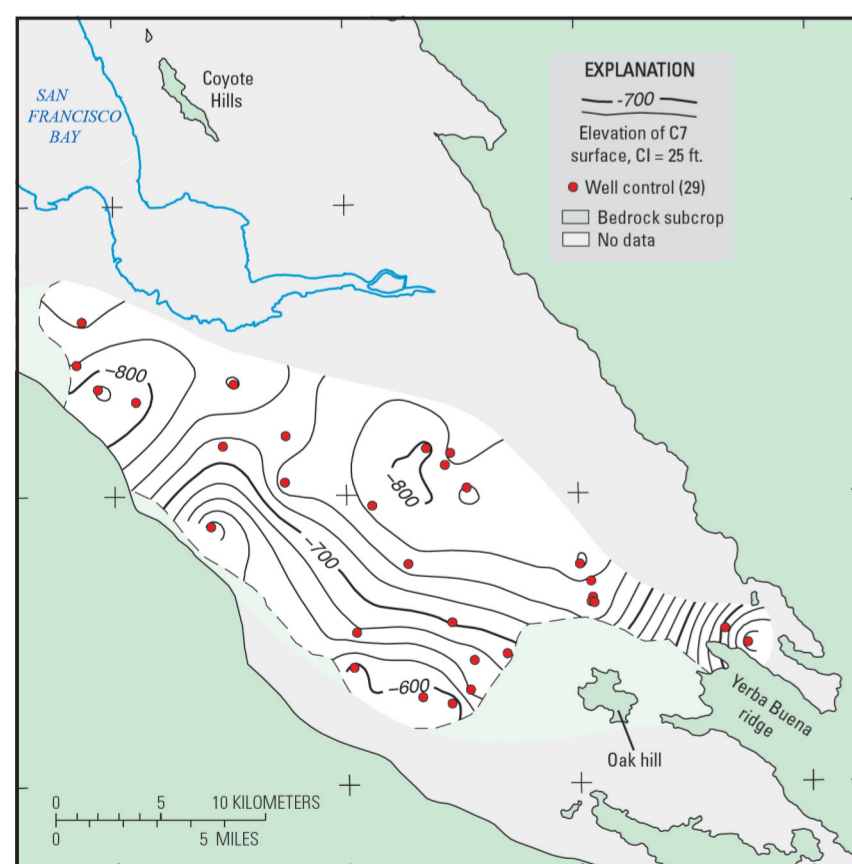
6. Base of cycle 4



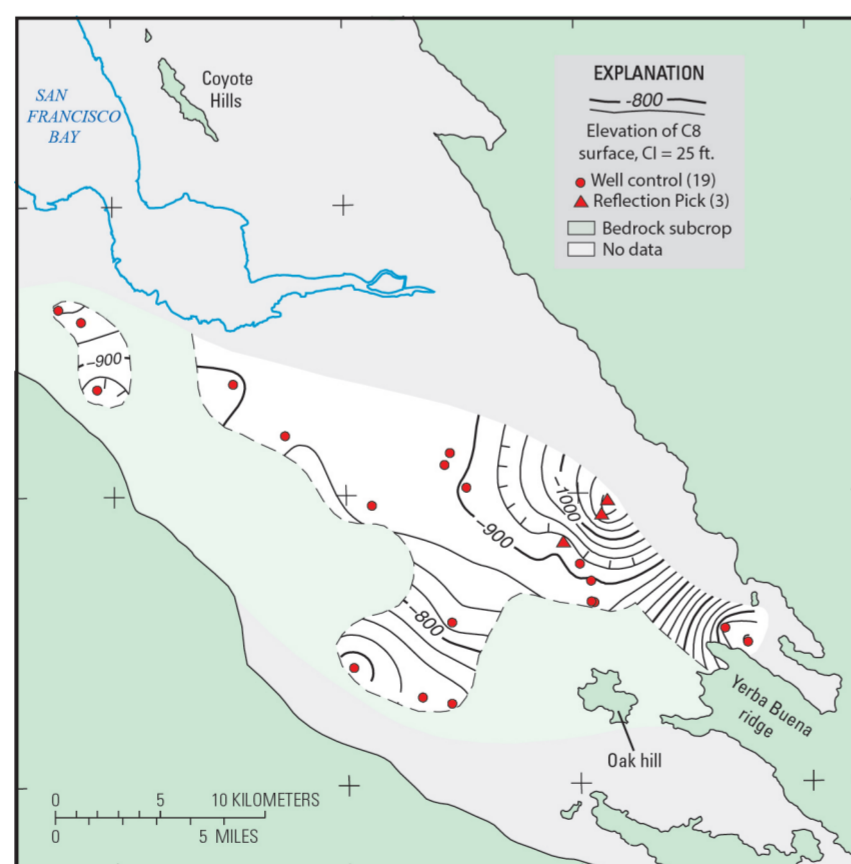
7. Base of cycle 5



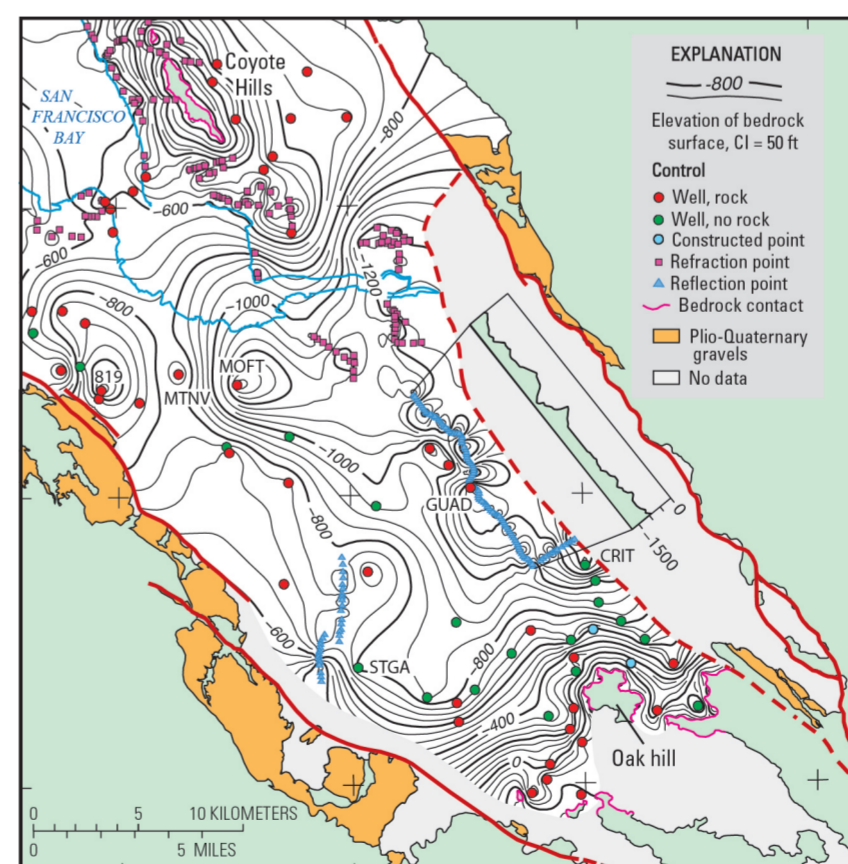
8. Base of cycle 6



9. Base of cycle 7



10. Base of cycle 8



11. Surface of buried bedrock

EXPLANATION

Contours on the topographic surface in map 1 were prepared from a 30-m digital elevation model as described in Appendix C; see figure 2 for areal geology and latitude/longitude values.

Maps 2 through 10 show contours on the bases of the eight sedimentary cycles (C1 to 8) and the base of the upper coarse interval C2a in cycle 2. Elevations are in feet, with contour intervals (CI) of 25 ft. Control points used for gridding and contouring are shown, with the number of points for cycle boundaries in parentheses, and areas lacking control are masked in gray. In map 4, constructed points are based on nearby well data. In map 11, they have elevations assigned to limit uncontrolled contour bulges; elevations in wells shown with no rock are assigned just below the well bottoms.

Bedrock is shown in green with black contacts and bedrock subcrop areas in light green with dashed black contacts. The latter areas are defined by intersection of the cycle surfaces with the bedrock surface of map 11. That map was prepared from several kinds of control (as shown). Faults are shown in red. The bedrock surface is truncated by the Silver Creek fault (dashed); there is little control for the equivalent surface east of the fault. The profile of the bedrock surface along the Guadalupe seismic reflection line (line of blue triangles passing well GUAD) is shown in the inset.

Elevation Contour Maps of the Topographic Surface, Bases of Sedimentary Cycles, and Buried Bedrock Surface, Santa Clara Valley, California

By

Carl M. Wentworth, Robert C. Jachens, Robert A. Williams, John C. Tinsley, and Randall T. Hanson
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