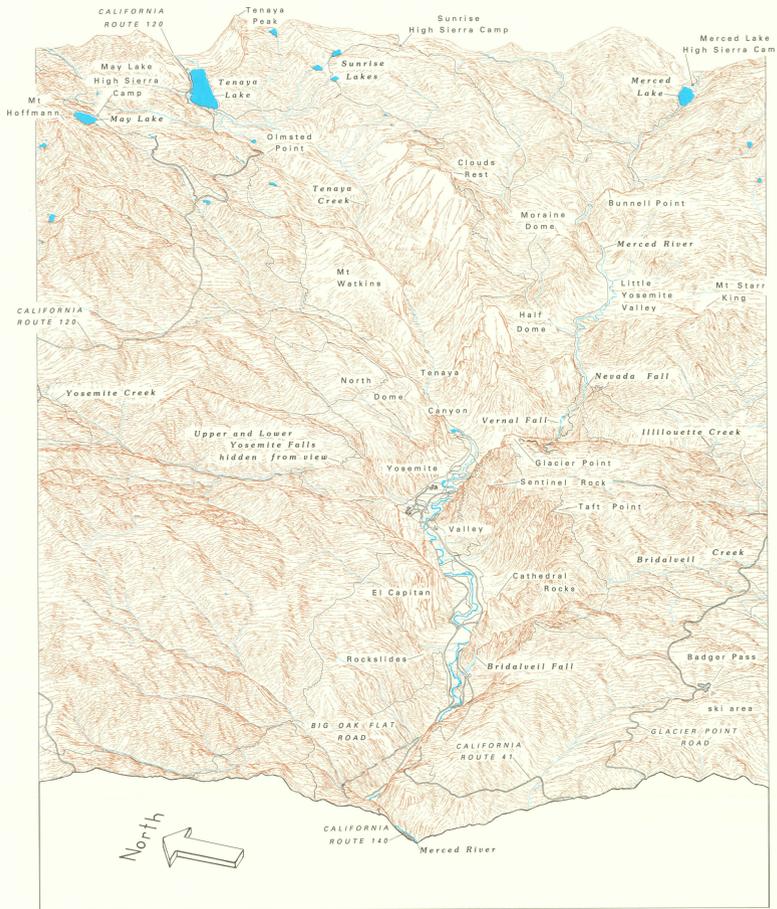


APPROXIMATE BOUNDARY OF YOSEMITE NATIONAL PARK



LOCATION MAP OF YOSEMITE VALLEY AND ENVIRONS



INTERIOR - GEOLOGICAL SURVEY, RESTON, VA - 1991  
Manuscript approved for publication,  
January 20, 1990

**PHYSIOGRAPHY OF YOSEMITE VALLEY**

Yosemite Valley is located in Yosemite National Park in the central Sierra Nevada, California. The valley is noted for its waterfalls, domes, and glaciated landforms. The purpose of this map is to aid the public in identification of the physiography of Yosemite Valley. Some of the landforms portrayed are eroded domes, such as Clouds Rest, Half Dome, Mt. Watkins, and North Dome, and the glaciated valleys of Tenaya Canyon, Little Yosemite Valley, and Yosemite Valley. As a result of glaciation, tributary valleys are perched high up on the slopes of the main valleys resulting in spectacular waterfalls, such as Bridalveil Fall. In this oblique map, Upper and Lower Yosemite Falls are hidden by Eagle Peak. This map is not to be used for route finding because parts of the roads, trails, and physiography are hidden from view.

Most of this oblique map is based on the 1:24,000-scale topographic map entitled "Map of Yosemite Valley" (U.S. Geological Survey, 1958a). The area outside of Yosemite Valley is based on the 1:125,000-scale topographic map entitled "Yosemite National Park and vicinity, Calif." (U.S. Geological Survey, 1958b). Contours from these planimetric maps were transformed to an oblique contour map by an isometograph. The physiography was interpreted and compiled using the oblique contour map as a base. The physiography was drawn to emphasize the outline, shape, form, and rock type of the landscape. A complete description of how physiography is compiled and portrayed can be found in Alpha and others (1988).

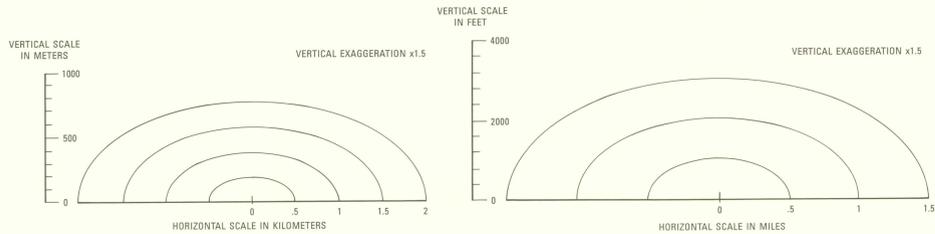
Two oblique maps are available for Yosemite National Park—one showing the present-day physiography (Alpha and others, 1986) and the other showing physiography and glaciers of Yosemite 20,000 years ago (Alpha and others, 1987). The geologic and glacial history of the park is discussed by Haber (1988b).

**REFERENCES CITED**

- Alpha, T.R., Detterman, J.S., and Morley, J.M., 1988. Atlas of oblique maps: a collection of landform portrayals of selected areas of the world. U.S. Geological Survey Miscellaneous Investigations Series I-1729, 137 p.
- Alpha, T.R., Haber, N.K., and Wahrhaftig, Clyde, 1986. Oblique map of Yosemite National Park, central Sierra Nevada, California. U.S. Geological Survey Miscellaneous Investigations Series Map I-1776.
- Alpha, T.R., Wahrhaftig, Clyde, and Haber, N.K., 1987. Oblique map showing maximum extent of 20,000-year-old (Tonga) Glaciers, Yosemite National Park, central Sierra Nevada, California. U.S. Geological Survey Miscellaneous Investigations Series Map I-1885.
- Haber, N.K., 1987. The Geologic Story of Yosemite National Park. U.S. Geological Survey Bulletin 1595, 69 p.
- U.S. Geological Survey, 1958a. Map of Yosemite Valley, Yosemite National Park, California, Mariposa County, with a descriptive text on reverse by F.E. Matthes, scale 1:24,000.
- U.S. Geological Survey, 1958b. Yosemite National Park and vicinity, Calif., scale 1:125,000.

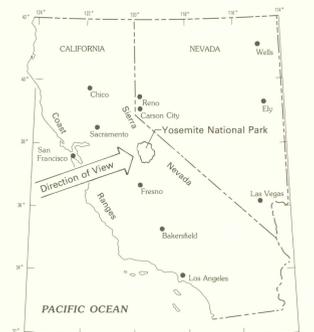
**HOW TO MEASURE HORIZONTAL DISTANCES ON THIS OBLIQUE MAP**

On a planimetric map, the scale is the same in all directions and orientations, and the user can measure the distance between two points by comparing the map distance with the bar scale. On an oblique map, because the front-to-back scale is foreshortened and the left-to-right scale remains constant, an elliptical scale must be used to measure horizontal distances. To use it, place a scaling instrument on the map, note the number of units between the two points of interest, and then move it to the zero point on the elliptical scale, keeping the instrument parallel to its original alignment on the two map points. Read the distance from the elliptical scale, estimating as necessary.



**OBLIQUE MAP OF YOSEMITE VALLEY,  
YOSEMITE NATIONAL PARK, CENTRAL SIERRA NEVADA, CALIFORNIA**

By  
**Tau Rho Alpha**  
1991



INDEX MAP OF CALIFORNIA AND NEVADA

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