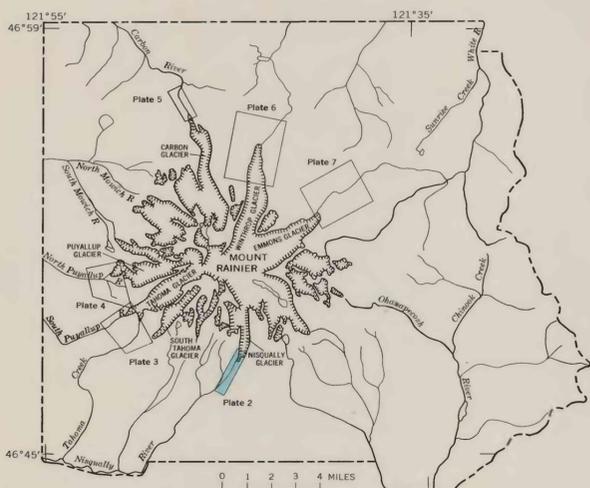


FIGURE 1.—Oblique view of the lower part of Nisqually Glacier taken on Sept. 22, 1966. About 130 years ago, the glacier extended about 600 feet below the bridge and filled the valley from wall to wall within the area enclosed by the blue lines. The terminus could not have been beyond the green line when Lt. A. V. Kautz saw it in 1857. The yellow line marks the glacier's approximate position in 1870 and the red line in 1900. Aug. 29, 1969

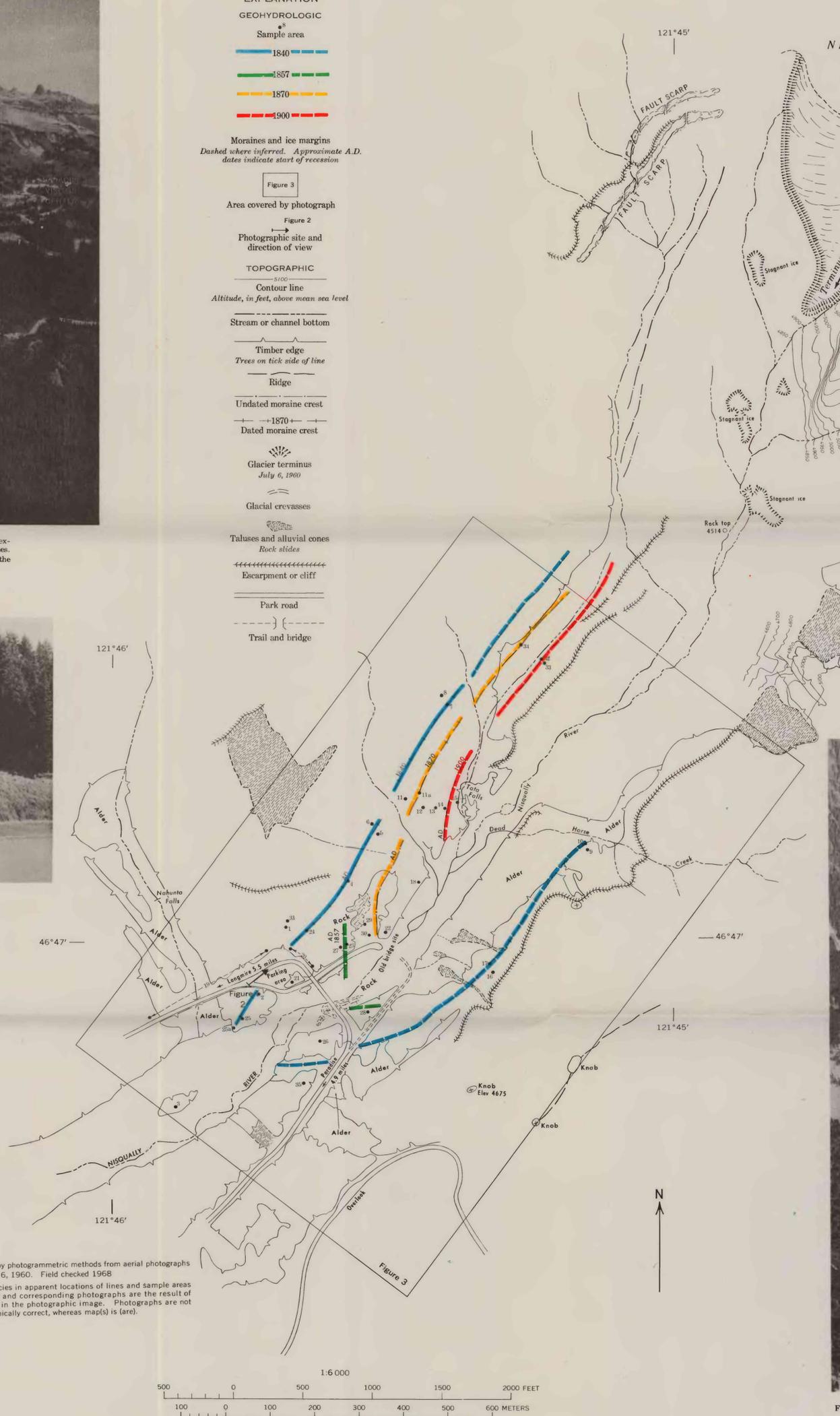


FIGURE 2.—Terminal moraine of Nisqually Glacier is cut by the road at the west end of the bridge and continues downslope through the forest to the river. Nisqually Glacier started to recede from here about 1840, as the oldest trees along this moraine were 2 inches to 2 feet tall in 1842-47. This position marks the maximum advance of Nisqually Glacier in 10,000 years. To the left, downvalley, trees are large and old, and the forest floor is covered with logs in all stages of decay. Beneath the humus here is a sandy yellowish pumice that was deposited 3,000 to 3,500 years ago. Aug. 1969



INDEX MAP OF MOUNT RAINIER SHOWING AREA OF THIS MAP SHADED

- EXPLANATION  
GEOHYDROLOGIC
- Sample area
  - 1840
  - 1857
  - 1870
  - 1900
- Moraines and ice margins  
Dashed where inferred. Approximate A.D. dates indicate start of recession
- Figure 3  
Area covered by photograph
- Figure 2  
Photographic site and direction of view
- TOPOGRAPHIC
- Contour line  
Altitude, in feet, above mean sea level
  - Stream or channel bottom
  - Timber edge  
Trees on tick side of line
  - Ridge
  - Undated moraine crest
  - Dated moraine crest
  - Glacier terminus  
July 6, 1900
  - Glacial crevasses
  - Talus and alluvial cones  
Rock slides
  - Escarpment or cliff
  - Park road
  - Trail and bridge



Compiled by photogrammetric methods from aerial photographs taken July 6, 1960. Field checked 1968  
Discrepancies in apparent locations of lines and sample areas on map(s) and corresponding photographs are the result of distortion in the photographic image. Photographs are not orthographically correct, whereas map(s) is (are).

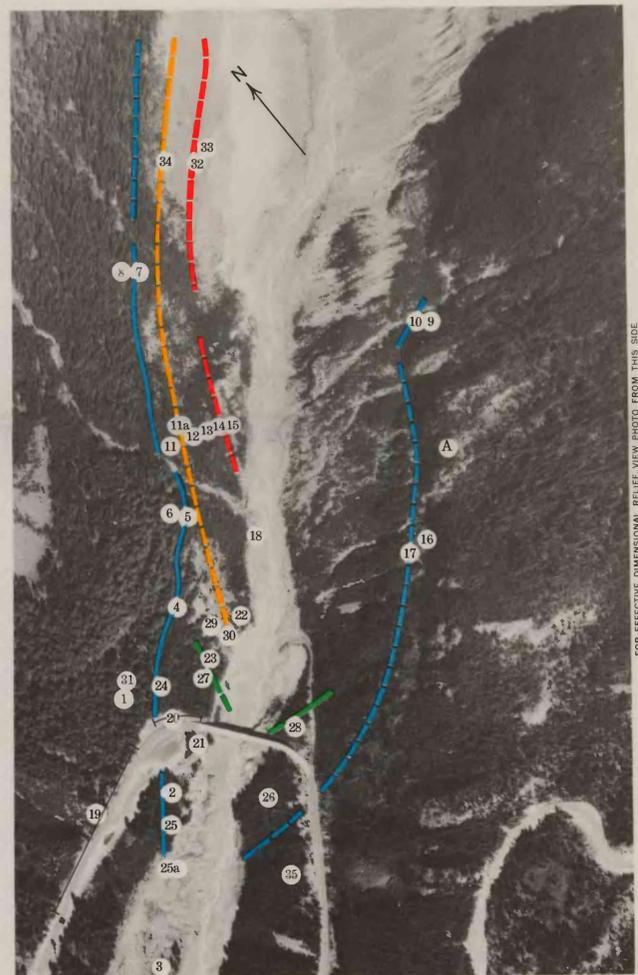


FIGURE 3.—Vertical photograph of Nisqually River valley in the vicinity of the bridge, taken on Aug. 16, 1967, and showing sample areas and moraines.