

EXERCISE 48 PROBLEMS—PART I

The following questions are based on Map T-13, the "Mono Craters, California" quadrangle (scale 1:62,500; contour interval 80 feet), and Figures 48-5 and 48-7, a detailed map and stereogram, and Map T-23a, a satellite image, of the same region. The heavily glaciated eastern crest of the Sierra Nevada is seen along the western sides of the map and stereograms ($37^{\circ}52'37''\text{N}$, $119^{\circ}12'40''\text{W}$). During the Pleistocene, glaciers in this region flowed down the valleys on the eastern slope of the Sierra toward the Mono Lake basin to the northeast. Large lateral moraines are found at the mouths of each canyon.

1. (a) A small glacier is located just north of the Dana Plateau (in the northwest section of the map). In what kind of glacial landform is this glacier found?
(b) What evidence suggests this feature was eroded by a glacier that was larger than the present one?
2. (a) What is the name for the kind of glacial landform illustrated by Mt. Gibbs? (On the topographic map, the dashed black line showing the boundary between Mono and Tuolumne Counties runs through the summit of Mt. Gibbs.)
(b) How does this kind of glacial landform develop?

Large lateral moraines can be seen at the mouth of Bloody Canyon (Walker Lake and Walker Creek are between these moraines; $37^{\circ}52'28''\text{N}$, $119^{\circ}09'53''\text{W}$). The glacier that left these moraines flowed down Bloody Canyon from near Mono Pass. Sawmill Canyon (just south of Bloody Canyon) consists of two large lateral moraines—these moraines were left by a glacier that at one time also flowed down Bloody Canyon.

3. How deep (thick) was the ice in the glacier that formed the lateral moraines at the bottom of Bloody Canyon? You may assume that the ice reached the top of the lateral moraines. Estimate the height of the lateral moraine just south of the word "Lake" in "Walker Lake."
_____ feet
4. Based on the evidence you see in the map and in the stereogram, explain the formation of Walker Lake.
5. (a) Which set of moraines formed first: the Bloody Canyon moraines or the Sawmill Canyon moraines?
(b) How do you know?

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Wenbin Ji



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