

Name: _____ Period: _____ Date: _____

LAB: Topographic Features and Advance/Retreat of Alpine Glaciers

Background:

The map in this lab shows three glaciers in the Juneau Ice Field in Alaska. It shows the Taku Glacier, one of the largest glaciers in the ice field as well as the smaller Norris, and Hole-in-the-Wall Glaciers. The topographic map includes land contours, glacial contours, and the positions of the margin of each glacier at different times since 1890. Glaciers gain and lose snow and ice each year. The amount of snow and ice added to a glacier is called *accumulation* and amount lost due to melting is called *ablation*. This relationship is called the glacial budget.



In this lab, you are going to analyze the topographic map to determine glacial features, such as U-shaped valleys, sharp mountain peaks, and moraines, as well as the dimensions of the glaciers. The map was made in 1980, and includes positions of the terminus (ice margin) during different times since 1890. Where are the glaciers now, in 2013? By determining the rate of advance or retreat, we can predict where the glacier will be in the future. Of course, this may depend on the rate not changing over time.

Make a prediction as to where you think the glaciers are now, and then write a conclusion after you analyze your data and review Google map images of the Taku Glacier Region.

Hypothesis: _____

PART 1: Topographic Map Analysis

Directions: Answer the following questions based upon the map of Alpine Glaciers in the Juneau Icefield, Alaska.

1. Lightly shade the areas of ice, land and water on the map.

Lowland = brown **Highland** = Green **Water** = blue **Glaciers** = white

Alpine Glaciers Lab Answer

Lloyd D. Keigwin

Alpine Glaciers Lab Answer:

Physical Geology Laboratory Manual John Becker Lucke, Janet Mora Aitken, 1963 **A Comparison of a Traditional and an Independent Laboratory Approach in Introductory College Geology** Karen Jeanne Goodman, 1975

Laboratory Outline for Geology 1a University of Illinois (Urbana-Champaign campus). Department of Geology and Geography, Harold Rollin Wanless, 1933 **Report**, 1992 **A Laboratory Manual of Physical and Historical Geology** Kirtley Fletcher Mather, Chalmer John Roy, 1934 *Laboratory Manual for Physical Geology* James Herbert Zumberge, 1973

Laboratory Exercises in Dynamic and Structural Geology George Alfred Thiel, 1939 *Earth Lab* Claudia Owen, Diane Pirie, Grenville Draper, 2006 Utilizing graphs and simple calculations this clearly written lab manual complements the study of earth science or physical geology Engaging activities are designed to help students develop data gathering skills e g mineral and rock identification and data analysis skills Students will learn how to understand aerial and satellite images to perceive the importance of stratigraphic columns geologic sections and seismic waves and more **Laboratory Manual for Physical Geology** James H. Zumberge, 1995 The new edition of this popular laboratory manual continues to provide introductory lab exercises for students studying physical geology It incorporates exercises involving key areas in physical geology such as earth materials topographic maps aerial photographs structural geology and plate tectonics **Laboratory Manual in Physical Geography** Thomas Cramer Hopkins, B. W. Clark, 1909 *Students' Laboratory Manual of Physical Geography* Albert Perry Brigham, 1904

Mechanisms of Global Climate Change at Millennial Time Scales Lloyd D. Keigwin, 1999-01-26 Contributors describe the current understanding of abrupt climate variations that have occurred at millennial to submillennial time scales events now recognized as characteristics of the global climate during the last glaciation Subjects covered include analysis of modern climate and ocean dynamics paleoclimate reconstructions derived from the marine terrestrial and ice core records and paleoclimate modeling studies The breadth of global paleoclimate knowledge presented here provides information required to answer many questions and provides a road map to address remaining problems Most material is from a June 1998 conference Lacks a subject index Annotation copyrighted by Book News Inc Portland OR

Laboratory Lessons in Physical Geography Lu Lester Everly, Ralph Earl Blount, Calvin Levi Walton, 1907 *Host Bibliographic Record for Boundwith Item Barcode 30112047793085 and Others*, 1879 *Harper's Weekly* John Bonner, George William Curtis, Henry Mills Alden, Samuel Stillman Conant, Montgomery Schuyler, John Foord, Richard Harding Davis, Carl Schurz, Henry Loomis Nelson, John Kendrick Bangs, George Brinton McClellan

Harvey, Norman Hapgood, 1874 **Science Record**, 1873 **Laboratory Manual for Physical Geology** Walter Henry Schoewe, 1928 **Laboratory Directions for General Geology** Joseph Kent Roberts, 1933 *Creep of Mountain Permafrost* Wilfried Haeberli, 1985 **Earth Resources: A Continuing Bibliography with Indexes (issue 63)**, 1989

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