

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

Michael J. Findley, Mary C. Findley

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Alpine Glaciers Lab Answer:

A Comparison of a Traditional and an Independent Laboratory Approach in Introductory College Geology Karen Jeanne Goodman, 1975 **Glaciers** Peter Knight, 2013-05-13 This book offers a comprehensive and detailed summary of our knowledge and understanding of glaciers and sets them within a global environment context The text explains the significance both of recent advances in glaciology and of the many research problems that remain to be solved The accessible style adopted in the text facilitates a clear understanding of glaciers and the role they play in global issues such as environmental change geomorphology and hydrology The use of complex mathematics is avoided as the reader is introduced to important concepts and techniques in modern glaciology such as deforming beds migrating ice divides and stable isotope analysis This is an essential reference book for students professional geologists and researchers and would be ideal for those who want either a rapid update or an introduction to the subject The book's discussion of recent discoveries and of research issues for the future supported by a thorough reference list enables readers to pursue their own areas of particular interest

Glaciers Peter G. Knight, 1999 An overview from 1999 of a general introduction to glacier study 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

Vegetation of the Glacier Lakes Ecosystem Experiments Site Claudia M. Regan, 1998 Vegetation at the Glacier Lakes Ecosystem Experiment Site a 600 ha research site at 3200 to 3500 m elevation in the Snowy Range of southeastern Wyoming was categorized and described from an intensive sampling of species abundances A total of 304 vascular plant taxa were identified through collection and herbarium documentation Plots with tree species were separated from those without tree species for ordination and classification analyses Detrended correspondence analysis was used to order plots along major axes of composition variation which are inferred moisture and topographic gradients Cluster analysis was used to categorize plots based on composition similarity The resulting groups were named according to species dominants We identified and described in detail 4 meadow 4 thicket or scrub 3 krummholz and 2 forest plant associations **The Conflict of the Ages**

Teacher Edition I The Scientific History of Origins Michael J. Findley, Mary C. Findley, Teacher Edition includes complete student text review questions vocabulary and answer keys The Conflict of the Ages is a Multi Part exploration of History Science and ancient Literature This first installment covers the concepts of God time Creation physics cosmology and specifics about each day of Creation We make comparisons with ancient sources to see where they agree with the Scriptural account We reference classic and modern scientific views exposing errors preconceptions presuppositions and falsehoods taught as fact by the mainstream scientific community God is the first witness and the Bible the first eyewitness account of

beginnings and origins Other ancient documents contain at least some truths and parallel accounts *Plows, Plagues, and Petroleum* William F. Ruddiman, 2010-03-22 The impact on climate from 200 years of industrial development is an everyday fact of life but did humankind's active involvement in climate change really begin with the industrial revolution as commonly believed *Plows Plagues and Petroleum* has sparked lively scientific debate since it was first published arguing that humans have actually been changing the climate for some 8 000 years as a result of the earlier discovery of agriculture The Ruddiman Hypothesis will spark intense debate We learn that the impact of farming on greenhouse gas levels thousands of years before the industrial revolution kept our planet notably warmer than if natural climate cycles had prevailed quite possibly forestalling a new ice age *Plows Plagues and Petroleum* is the first book to trace the full historical sweep of human interaction with Earth's climate Ruddiman takes us through three broad stages of human history when nature was in control when humans began to take control discovering agriculture and affecting climate through carbon dioxide and methane emissions and finally the more recent human impact on climate change Along the way he raises the fascinating possibility that plagues by depleting human populations also affected reforestation and thus climate as suggested by dips in greenhouse gases when major pandemics have occurred While our massive usage of fossil fuels has certainly contributed to modern climate change Ruddiman shows that industrial growth is only part of the picture The book concludes by looking to the future and critiquing the impact of special interest money on the global warming debate In the afterword Ruddiman explores the main challenges posed to his hypothesis and shows how recent investigations and findings ultimately strengthen the book's original claims *The Conflict of the Ages Teacher Edition I-III* Michael J. Findley, Mary C. Findley , science history homeschool evolution young earth creation ancient manuscripts *Scientific and Technical Aerospace Reports* ,1989 *Earth Resources: A Continuing Bibliography with Indexes (issue 63)* ,1989

Reviewing **Alpine Glaciers Lab Answer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Alpine Glaciers Lab Answer**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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