

Name: _____

Laboratory Section: _____

Date: _____

Score/Grade: _____



LAB EXERCISE

Climate Change

Lab Exercises and Activities

SECTION 1

Paleoclimate

1. How many years of data are displayed from the EPICA ice core?
800,000 years (or 801,500 years)
2. What are the maximum and minimum temperature anomalies recorded? What is the range of temperature anomalies over this record?
Max 3.4°C; min -10.5°C; range 13.9°C
3. How many interglacial times (when the temperature deviation reached 0°C or greater) do you detect over the past 450,000 years? What is the average time between interglacials?
5 interglacials over 0°C; roughly 100,000 years
4. How much has CO₂ varied in the EPICA record? What were the highest and lowest values? What was the range of CO₂ values?
CO₂ has varied from 280 ppm down to 170 ppm, for a range of 110 ppm.
5. How many times has CO₂ exceeded 270 ppm in the past 450,000 years?
CO₂ has exceeded 270 ppm five times in the past 450,000 years.
6. What is the period from peak to peak with regard to CO₂ and for temperature for the past 450,000 years?
They have both fluctuated on a cycle of approximately 100,000 years.
7. Interglacial-glacial period climate cycles are often referred to as appearing saw-toothed, with an abrupt change followed by a more gradual change. When do we see an abrupt change when going from interglacial to glacial times or when going from glacial to interglacial times? When do we see a gradual change?
The abrupt change is seen going from glacial to interglacial conditions, while the return to glacial conditions is more gradual.

Examine **Figure 18.3**. The Vostok ice core is 3310 m (10,860 ft) long. The full record extends back to 422,000 years before the present. The figure shows CO₂ in parts per million (ppm) and temperature anomalies in Celsius degrees.

Geography Lab Answer Key Christopherson

A Gutmann



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Elemental Geosystems Robert W. Christopherson, 2007

Applied Physical Geography Robert W.

Christopherson, Charles E. Thomsen, 2009 This spiral bound geography lab manual is the first in its field to employ Google Earth exercises The Seventh Edition contains newly enhanced stereo pairs and topographical maps and comes packaged with a handy acetate and stereo lenses Latitude Longitude and Time Directions and Compass Readings Map Projections Map Reading and Interpretation Contours and Topographic Maps Earth Sun Relationships Insolation and Seasons Temperature Concepts and Patterns Earth's Atmosphere Pressure Profiles and Pressure Patterns Atmospheric Humidity Stability and Adiabatic Processes Weather Maps Water Balance and Water Resources Global Climate Systems Plate Tectonics Global Patterns and Volcanism Recurrence Intervals for Natural Events Topographic Analysis Fluvial Geomorphology Topographic Analysis Glacial Geomorphology Topographic Analysis Coastal and Arid Geomorphology Topographic Analysis Karst Landscapes Soils Biomes Analyzing Global Terrestrial Ecosystems An Introduction to Geographic Information Systems MARKET For anyone interested in learning more about geography *Applied Physical Geography* Robert W.

Christopherson, Charles E. Thomsen, 2011-07-15 This spiral bound geography lab manual contains 21 lab exercises that are divided into logical sections Each exercise comes with a list of key terms and learning concepts Integrated into all of the exercises are links to Google Earth KMZ files available at www.mygeoscienceplace.com allowing students to experience and manipulate topographic maps in digital elevation mode relief as they work through problems This revised edition comes with updated shaded relief topographic maps to view with stereolenses a revised chapter on geographic information systems that contains online activities that allow students to use ArcGIS Explorer and updated Google Earth™ activities An answer key is available for teachers to download from www.pearsonhighered.com/irc *Instructors Resource Manual* Robert W.

Christopherson, 2003 **The Software Encyclopedia**, 1986 *Forthcoming Books* Rose Arny, 1993 **Agindex**, 1994

Subject Guide to Books in Print, 1975

Answer Key for the Laboratory Manual, Darrel Hess [to Accompany]

Physical Geography Darrel Hess, Tom Lee McKnight, Stephen J. Stadler, 2007

Geography Lab Manual for the

Community College Student Michael Farrell, 2013-08-23

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Table of Contents Geography Lab Answer Key Christopherson

1. Understanding the eBook Geography Lab Answer Key Christopherson
 - The Rise of Digital Reading Geography Lab Answer Key Christopherson
 - Advantages of eBooks Over Traditional Books
2. Identifying Geography Lab Answer Key Christopherson
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geography Lab Answer Key Christopherson
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geography Lab Answer Key Christopherson
 - Personalized Recommendations
 - Geography Lab Answer Key Christopherson User Reviews and Ratings
 - Geography Lab Answer Key Christopherson and Bestseller Lists
5. Accessing Geography Lab Answer Key Christopherson Free and Paid eBooks
 - Geography Lab Answer Key Christopherson Public Domain eBooks
 - Geography Lab Answer Key Christopherson eBook Subscription Services
 - Geography Lab Answer Key Christopherson Budget-Friendly Options

6. Navigating Geography Lab Answer Key Christopherson eBook Formats
 - ePub, PDF, MOBI, and More
 - Geography Lab Answer Key Christopherson Compatibility with Devices
 - Geography Lab Answer Key Christopherson Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geography Lab Answer Key Christopherson
 - Highlighting and Note-Taking Geography Lab Answer Key Christopherson
 - Interactive Elements Geography Lab Answer Key Christopherson
8. Staying Engaged with Geography Lab Answer Key Christopherson
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geography Lab Answer Key Christopherson
9. Balancing eBooks and Physical Books Geography Lab Answer Key Christopherson
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geography Lab Answer Key Christopherson
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geography Lab Answer Key Christopherson
 - Setting Reading Goals Geography Lab Answer Key Christopherson
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geography Lab Answer Key Christopherson
 - Fact-Checking eBook Content of Geography Lab Answer Key Christopherson
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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