

Climate Study Guide

A. The 6 Rules for Understanding Climate

1-3 move n-s

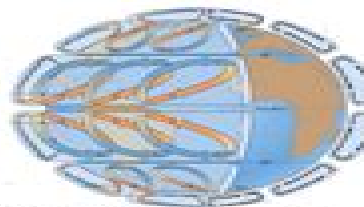
1. The sun heats the earth unequally. The more perpendicular the rays the more they heat the earth because the heat gets spread at a larger area when it's less perpendicular
 - a. Result: temperature varies with latitude
 - i. Low latitude- more energy, higher temp
 - ii. High latitude- less energy, lower temp
2. The earth heats the air. (atmosphere)
3. Warm air is lighter than cold air (convection).
 - a. Warm - low pressure
 - b. Cold- high pressure
 - c. This will be important for air circulation cells
4. Coriolis force deflects air E or W.

Try to imagine the left half of the image in 3-D but the points are:

Between 30° N and 30° S are the Northeast and Southeast Trade Winds

Between 30° and 60° N and S are the Westerlies

[Between 60° and 90° N and S the winds blow towards the west]



If you want to really understand, follow the atmospheric winds, then across the surface.



5. Warm air absorbs more moisture than cold air.
 - a. Rising cooling air cannot hold as much moisture so there is a lot of rain at equator, STH is dry (whats sth)
 - b. There is more evaporation at the equator because hot air holds more moisture
6. Water holds energy longer than air
 - a. Water holds heat more than land?? Except that's not in the uh lecture but same thing bc land heats air?

Climate Study Guide

Jane Gardner



Climate Study Guide:

Weather & Climate Study Guide. Keith Orrell,2001-08-01 *Study Guide to Paleontology* Cybellium,2024-10-26

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Meteorology 100 Frank S. Sechrist,Edward J. Hopkins,1974 **Global Climate Change** Jane Gardner,2022-05 Earth has changed much over history some periods faster than others due to many factors that humans did not observe In today s high tech landscape and with ground breaking processes for measuring the natural world around us plus the world of the past we now know more than we ever have about our planet Essentials of that science are jam packed into this 6 page laminated reference guide that focuses on the facts succinctly and in an easy to read format organized with color coded sections and illustrations More facts for your money than any other source this tool can support a student s study of science at any grade level but also anyone interested in our home planet 6 page laminated guide includes Key Terms in Climate Change Defining Climate Change Global Warming vs Climate Change Causes of Climate Change Why Are We Concerned The World Acts Paris Agreement 2015 Intergovernmental Panel on Climate Change Effects on Environmental Ecosystems Water Hurricanes Tropical Cyclones Ice Snow Wetlands Estuarine Impact Changes in Sea Level Land Changes in Growing Seasons Permafrost Changes in Precipitation Patterns Wildfires Land Degradation Atmosphere Air Pollution Wild Weather Patterns of Atmospheric Temperature Change Greenhouse Effect Climate Change and Life on Earth Effects on Humans Allergies Pests Food Insecurity Access to Fresh Water Recreation Migration and Extinction Climate Change in the Past *The Gospel of Climate Skepticism* Robin Globus Veldman,2019-10-22 Why are white evangelicals the most skeptical major religious group in America regarding climate change Previous scholarship has pointed to cognitive factors such as conservative politics anti science attitudes aversion to big government and theology Drawing on qualitative fieldwork *The Gospel of Climate Skepticism* reveals the extent to which climate skepticism and anti environmentalism have in fact become embedded in the social world of many conservative evangelicals Rejecting the common assumption that evangelicals skepticism is simply a side effect of political or theological conservatism the book further shows that between 2006 and 2015 leaders and pundits associated with the Christian Right widely promoted skepticism as the biblical position on climate change *The Gospel of Climate Skepticism* offers a compelling portrait of how during a critical period of recent history political and religious

interests intersected to prevent evangelicals from offering a unified voice in support of legislative action to address climate change **Meteorology and Climate** ,2022 **Meteorolgy and Climate** Bert Holtslag,Leo Kroon,Gert-Jan Steeneveld,Karin van der Wiel,2016 *Study Guide for Problems in American History* Lena A. Ely,Edith King,Martin James Stormzand,1926 A Bibliography, Guide, and Index to Climate Alexander Ramsay,1884 **Appleton's Popular Science Monthly** ,1948 **Public School Methods. Teacher's Guide** ,1918 **Manual and Courses of Study for Elementary Schools** Pennsylvania. Department of Public Instruction,1925 *Workbook/study Guide for Meteorology Today* C. Donald Ahrens,2000 Includes chapter overviews self tests with answers discussion of key concepts and other resources **The Climate of Portugal and Notes on Its Health Resorts** Daniel Gelanio Dalgado,1914 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1973 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 **Manual and Syllabuses for Elementary Schools** Pennsylvania. Department of Public Instruction,1922 *Ohio School of the Air* ,1930 Climate Data and Resources Edward Linacre,2003-09-02 The value of applied climatology the study of the impact of climate lies in the analysis of measurements and estimates within the context of change This study provides a review of the theory and practice underlying current climatic research *The Classroom Climate* Roberta M. Hall,1982

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