

OCEANOGRAPHY STUDY GUIDE

Module 16: Air Circulation Systems

Uneven solar heating—oceanic heat flow

- Equator has more heat and polar regions have less heat
- The atmosphere circulates. As you go higher into the troposphere, the temperature decreases (increases again in the stratosphere)

Physical Properties of the Atmosphere

- Warm air is **less** dense than cold air (heat rises!)
- Moist air is **less** dense than dry air (water vapor is lighter than nitrogen and oxygen)
- Warm area at the equator rises, which creates a low pressure zone and since it's colder at the top of the troposphere, the air gets cold as it moves along
 - o It then creates a high pressure zone when it is packed closer together
- Air moves from high pressure to low pressure

Movements in Air

- Convection cell on different part of the earth where wind always moves from high to low pressure in our idealized model
- **Coriolis effect:** deflection of moving objects over long distances due to the rotation of the earth
 - o Effect is creating over objects that move long distances across latitudes
 - o Maximum at the poles, none at equator
 - o Deflected to the **right** in **northern** hemisphere, to the **left** in **southern**

Global Atmospheric Circulation

- Greater heating over equator: air expands, decreases in density, rises
- Air rises, cools due to temperatures in upper troposphere, and eventually increases in density to sink
- Circulation cells change based **on water vapor content and temperature**
- Different circulation cells:
 - o Hadley (0-30)
 - o Ferrel (30-60)
 - o Polar (60-90)
- High pressure zones: (air moves towards the surface... cold sinks)
 - o Subtropical highs, polar highs, clear skies
- Low pressure zones (air moves away from the surface... heat rises)
 - o Equatorial lows, subpolar lows, overcast skies with precipitation

Oceanography Biology Final Study Guide

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Resources in Education ,1997 **Science Course Improvements Projects** National Science Foundation (U.S.),1964
Research in Education ,1971 *Naval Training Bulletin* ,1967 **Monthly Catalog of United States Government Publications** ,1993 *Monthly Catalogue, United States Public Documents* ,1993 Subject Guide to Books in Print ,1993

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1977 *Artificial Reef Evaluation* William Seaman,2000-03-23 Beneath the coastal waters of the world lie thousands of artificial reefs Some are old and retired freighters and ships that once plied the oceans of the world but now serve as habitats for marine life Others are newer reefs that have been designed and built for specific applications With the field of aquatic habitat technology continually growi

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National Union Catalog ,1973 Includes entries for maps and atlases U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch,1974 *Directory of Distance Learning Opportunities* Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Annual Report of the President of the University on Behalf of the Regents to His Excellency the Governor of the State of California University of California, Berkeley,1922 *Annual Report of the President of the University on Behalf of the Regents to His Excellency the Governor of the State of California* University of California (1868-1952). President,1924 **Course and Curriculum Improvement Materials** National Science Foundation (U.S.),1976 **Course and Curriculum Improvement Projects: Mathematics, Science, Social Sciences** National Science Foundation (U.S.),1974 *Introductory Oceanography* Harold V. Thurman,Alan P. Trujillo,2004 The 10th edition of this popular book continues to provide an excellent foundation in science by examining the vast body of oceanic knowledge Spanning the disciplines of geology chemistry physics and biology it allows readers to have a fundamental understanding of how oceans work Interwoven within the book are hundreds of photographs illustrations real world examples and applications that make the material relevant accessible and entertaining Well organized and clearly written this book covers scientific inquiry and gives an historical look at the study of

oceanography the origins of life the earth and the oceans plate tectonics marine provinces marine sediments water and seawater air sea interaction ocean circulation waves tides and coastlines biological productivity and the marine habitat marine resources and environmental concerns This book is intended to help readers in their quest to find out more about oceans Because of its comprehensive scope and excellent resource materials it can also serve as an excellent reference work for those involved in oceanography

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 - Chapter 3: Oceanography Biology Final Study Guide in Everyday Life
 - Chapter 4: Oceanography Biology Final Study Guide in Specific Contexts
 - Chapter 5: Conclusion
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