

## 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

**R Sandford**



## **Oceanography Biology Final Study Guide:**

This book delves into Oceanography Biology Final Study Guide. Oceanography Biology Final Study Guide is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Oceanography Biology Final Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Oceanography Biology Final Study Guide
  - Chapter 2: Essential Elements of Oceanography Biology Final Study Guide
  - Chapter 3: Oceanography Biology Final Study Guide in Everyday Life
  - Chapter 4: Oceanography Biology Final Study Guide in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Oceanography Biology Final Study Guide. This chapter will explore what Oceanography Biology Final Study Guide is, why Oceanography Biology Final Study Guide is vital, and how to effectively learn about Oceanography Biology Final Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Oceanography Biology Final Study Guide. This chapter will elucidate the essential principles that must be understood to grasp Oceanography Biology Final Study Guide in its entirety.
4. In chapter 3, the author will examine the practical applications of Oceanography Biology Final Study Guide in daily life. This chapter will showcase real-world examples of how Oceanography Biology Final Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Oceanography Biology Final Study Guide in specific contexts. This chapter will explore how Oceanography Biology Final Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Oceanography Biology Final Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Oceanography Biology Final Study Guide.

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