Meteorology Study Guide

Use this guide to review your notes, textbook readings, and class activities to prepare for guizzes, tests, and exams.

I. Introduction to Meteorology

- Definition of Meteorology: The study of the atmosphere and its phenomena, including weather and dimate.
- Weather vs. Climate: Weather refers to the day-to-day state of the atmosphere (e.g., temperature, precipitation, wind). Climate is the long-term average of weather patterns in a specific region.

II. Atmospheric Composition and Structure

- Atmospheric Composition:
 - Major gases: Nitrogen (28%), Oxygen (21%), Argon (0.9%), and trace amounts of other gases like carbon dioxide.
 - Importance of water vapor: Its role in cloud formation, precipitation, and heat transfer.
- Layers of the Atmosphere:
 - Troposphere: Lowest layer, where weather occurs.
 Temperature decreases with altitude.
 - Stratosphere: Contains the ozone layer, which absorbs harmful UV radiation. Temperature increases with altitude.
 - Mesosphere: Meteors burn up in this layer. Temperature decreases with altitude.
 - Thermosphere: Very hot layer due to absorption of solar radiation. Auroras occur here. Temperature increases with altitude.
 - Exosphere: Outermost layer, gradually fades into space.

III. Heat Transfer

- Conductions Heat transfer through direct contact (e.g., the ground warming the air above it).
- Convection: Heat transfer through the movement of fluids (liquids or gases) (e.g., warm air rising and cool air sinking).
- Radiation: Heat transfer through electromagnetic waves (e.g., the sun's energy warming the Earth).

IV. Atmospheric Pressure and Wind

 Atmospheric Pressure: The force exerted by the weight of the atmosphere.

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George Graybill

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