

# METEOROLOGY

The atmosphere, the Sun, radiation, cloud formations, air masses & fronts, global weather patterns & forces, severe weather, optical phenomena, and more

## THE ATMOSPHERE

### Gas Composition

- The atmosphere is composed mainly of nitrogen, an odorless, colorless gas
- Oxygen is the next most abundant element, with other gases represented only in trace amounts
- The atmosphere is a fluid; it has no set shape and moves easily when acted upon by external forces

### Description of Composition

- There are two ways to describe the composition of the atmosphere:
  - By the weight of the constituents
  - By their volume

| Principal Gases in Dry Air |                   |
|----------------------------|-------------------|
| Constituent                | Percent by Volume |
| Nitrogen                   | 78.084            |
| Oxygen                     | 20.946            |
| Argon                      | .934              |
| Carbon dioxide             | .034              |
| Ozone                      | .000004           |
| Water vapor                | ~4.0*             |

\*Water vapor is a variable gas, whereas the others are more permanent

### Possible Originations

- The Earth has what is known as a **secondary atmosphere**, or an atmosphere created after the formation of the planet
- The large gas planets (Jupiter, Saturn, Uranus, and Neptune) are entirely made of gas; Jupiter has a **primary atmosphere**, or an atmosphere that originated with the formation of the planet
- There are two hypotheses for the formation of the Earth's atmosphere:
  - Outgassing:**
    - When the Earth formed, it was a giant spinning ball of molten lava
    - As it cooled, gases trapped in the lava were "belched" up by large volcanoes
    - The combination of these outgassed vapors and the biological transformation of the chemistry of the atmosphere by hundreds of millions of years of plant growth gave us our contemporary atmosphere
  - This hypothesis is more widely accepted

### Comet Impacts:

- A comet is a giant clump of frozen water and gases
- If many large comets struck the Earth several billion years ago, they could have left a residue of water, carbon dioxide, oxygen, and other gases that eventually collected into the atmosphere

### Levels of the Atmosphere



- Because the density of the atmosphere decreases exponentially with altitude, 99% of the atmosphere is within the first 20 miles of the Earth's surface

### Troposphere

- The lowest level of the atmosphere
- Named in 1908 by Léon Teisserenc de Bort, it means "the region where air turns over"
- The layer in which most of the clouds and weather phenomena occur
- Has two layers:
  - The layer that touches the Earth is called the **boundary layer** and is about 5-10 miles high at the equator
  - The troposphere's upper limit is called the **tropopause** and varies in height with both season and location
- In the troposphere, temperatures decrease with altitude; this is called a **lapse rate:**
  - This rate averages out to be  $-6.5^{\circ}\text{C}$  for every kilometer
  - In the tropopause, the temperature does not change with height

- The layer of the atmosphere that exists between 12-31 miles above the Earth's surface
- The temperature in the stratosphere increases with height because the **ozone layer** is located here; when temperatures increase with height, it is called an **inversion:**
  - The ozone layer absorbs ultraviolet radiation from the Sun (see **Heat Transfer & the Greenhouse Effect**, p. 2, and **Ozone**, p. 6)
  - There has been a decrease in the ozone layer due to chlorofluorocarbons (CFCs) and other man-made and natural chemical processes
  - Scientists have found that ice crystals, due to the extremely low temperatures of this region, can also deplete ozone, but research is ongoing in this area

### Mesosphere

- The layer of the atmosphere above the stratosphere
- The temperature in the mesosphere begins to fall, often reaching the **coldest temperatures** of any part of the atmosphere:
  - This cold region extends from 31-56 miles above the Earth's surface, and its temperature can reach  $-100^{\circ}\text{C}$

### Thermosphere

- The layer of the atmosphere above the mesosphere
- It starts about 56 miles above the Earth's surface
- Here, again, the temperature begins to rise with altitude:
  - This is because the atmosphere in this region, while very thin, allows particles to move at extremely high speeds
  - Temperature is the average kinetic energy of the particles; since the particles are moving so fast, the temperature is very high in this layer

### Ionosphere

- The layer within both the thermosphere and mesosphere in which there are enough ionized particles to affect the transmission of radio signals:
  - Radio signals bounce off the ionosphere to extend their range past the horizon
  - This effect is stronger at night when the Sun's radiation does not affect the ionosphere
- Ionized particles are atoms or molecules that have more electrons than protons, making them negatively charged, or more protons than electrons, making them positively charged
- Begins about 37 miles above the Earth's surface and extends upward
- Reflects long-wavelength, low-energy radio signals (like AM radio) back to Earth but allows short-wavelength, high-energy radio signals (like FM radio) to pass through into space

## THE SUN, HEAT, TEMPERATURE & RADIATION

### The Earth's Tilt & the Seasons



- As it orbits around the Sun, the Earth spins on its axis, which is tilted with respect to the Earth-Sun orbital plane, not perpendicular to it:
  - The North Pole does not point directly up and down as the Earth spins but rather is inclined at  $23.5^{\circ}$  with respect to the orbital plane
- As the Earth orbits the Sun, in a near-circular path called an ellipse, it remains at the same angle and pointing in the same direction; this tilt means that during a certain time of the year, the **Northern Hemisphere** is pointed toward the Sun more than the **Southern Hemisphere:**
  - During this period, the Northern Hemisphere receives more direct sunlight than the Southern Hemisphere and therefore becomes warmer; this is summer in the Northern Hemisphere and winter in the Southern Hemisphere; the first day of summer for the Northern Hemisphere is called the **summer solstice**, which has the most day-light hours of the year:
    - On or around June 21, the Sun's most direct perpendicular rays are hitting the Earth at  $23.5^{\circ}$  N latitude, the Tropic of Cancer; this is the farthest north the perpendicular rays will be

# Meteorology Study Guide

**SJ Ball**



## **Meteorology Study Guide:**

**What Do You Know about Meteorology?** Jack Rudman,2002-01-01 *Meteorology* National Learning Corporation,2020-03-15 *What Do You Know about Meteorology?* Jack Rudman,National Learning Corporation,2018 The Test Your Knowledge Series asks What Do You Know About a various subjects or areas of personal interest **Study Guide to Accompany Meteorology** Joseph M. Moran,Michael D. Morgan,1991-01-01 **Workbook/study Guide for Meteorology Today** C. Donald Ahrens,2000 Includes chapter overviews self tests with answers discussion of key concepts and other resources *Meteorology 100* Frank S. Sechrist,Edward J. Hopkins,1974 *Study Guide Supplement, Meteorology 100, Weather & Climate* Frank S. Sechrist,Edward J. Hopkins,1976 **Meteorology** Moran,1995-02 **Meteorology I** Victor F. Morris,Embry-Riddle Aeronautical University,1986 **Elementary Study Guide, Meteorology** Carlton L. Wheeler,1946 **Meteorology Exercise Manual and Study Guide** Joseph M. Moran,Robert A. Paul,Michael D. Moran,1986-01 **Intro to Meteorology & Astronomy Teacher Guide** Michael Oard,Danny Faulkner,2016-06-01

Introduction to Meteorology and Astronomy Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Meteorology The Earth was created to be the dwelling place of man It is a complex world and its weather patterns affect our lives every day Whether you live near the equator a polar region or somewhere in between knowledge of the weather is important The Weather Book will teach you why our exact distance from the sun allows life on earth how the weather on the other side of the earth affects you how clouds form and how to identify the different types what the difference is between a cold and warm front why you can often see lightning long before you can hear thunder how to build your own weather station how to survive in dangerous weather what the greenhouse effect and the ozone hole are what Noah s flood and the Ice Age have in common how weatherpersons forecast hurricanes and tornadoes how to read a weather map and what our responsibility is to the environment Learning about the weather is fun It will change the way you look at the clouds in the sky Now you ll have more of an understanding about what is going on miles above your head And when you hear a weather report on television you will understand so much more about the world around you Semester 2 Astronomy One thing we have in common with the ancients is that all of the human race has gazed at the night sky and the bright morning and wondered What s out there Our universe is so vast and awe inspiring that to learn about it is to learn about ourselves The Astronomy Book will teach you what long ago astronomers thought about other worlds solar system facts how constellations relate to astrology the history of space exploration black holes do they exist the origin and age of the moon why Mars doesn t support life the composition of stars supernova remnants and the myth of star birth asteroid legends and the extinction of the dinosaurs are there planets outside our solar system and could they be home to intelligent life what are UFOs and the age of comets and meteor showers

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