

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

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

Description of Composition

1. There are two ways to describe the composition of the atmosphere:
 - a. By the weight of the constituents
 - b. 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	<.40*

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

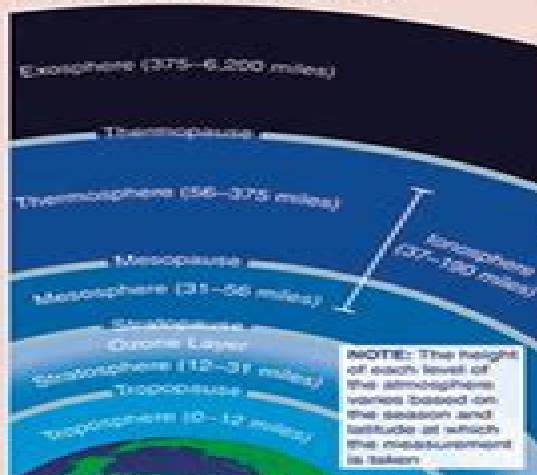
Possible Origination

1. The Earth has what is known as a **secondary atmosphere**, or an atmosphere created after the formation of the planet.
2. 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.
3. There are two hypotheses for the formation of the Earth's atmosphere:
 - a. **Outgassing:**
 - i. When the Earth formed, it was a giant spinning ball of molten lava.
 - ii. As it cooled, gases trapped in the lava were "belched" up by large volcanoes.
 - iii. 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.
 - b. This hypothesis is more widely accepted.

Comet Impacts:

- i. A comet is a giant chunk of frozen water and gases.
- ii. 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



1. 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

1. The lowest level of the atmosphere.
2. Named in 1908 by Léon Teisserenc de Bort, it means "the region where air turns over".
3. The layer in which most of the clouds and weather phenomena occur.
4. Has two layers:

- a. The layer that touches the Earth is called the **boundary layer** and is about 5-10 miles high at the equator.
- b. The troposphere's upper limit is called the **tropopause** and varies in height with both season and location.
5. In the troposphere, temperatures decrease with altitude; this is called a **lapse rate**:
 - a. This rate averages out to be -6.5°C for every kilometer.
 - b. In the tropopause, the temperature does not change with height.

Stratosphere

1. The layer of the atmosphere that exists between 12-31 miles above the Earth's surface.
2. 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**:
 - a. The ozone layer absorbs ultraviolet radiation from the Sun (see **Heat Transfer & the Greenhouse Effect**, p. 2, and **Ozone**, p. 4).
 - b. There has been a decrease in the ozone layer due to chlorofluorocarbons (CFCs) and other man-made and natural chemical processes.
 - c. 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

1. The layer of the atmosphere above the stratosphere.
2. The temperature in the mesosphere begins to fall, often reaching the coldest temperatures of any part of the atmosphere:
 - a. This cold region extends from 31-56 miles above the Earth's surface, and its temperature can reach -100°C .

Thermosphere

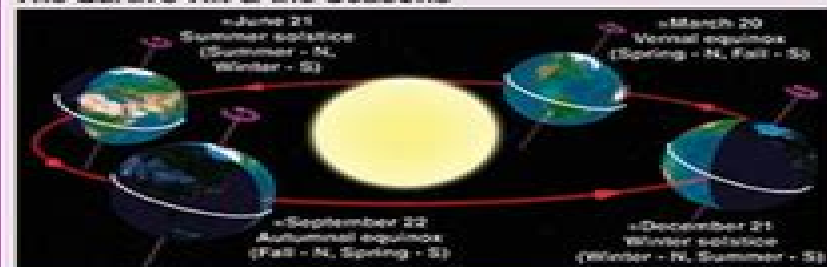
1. The layer of the atmosphere above the mesosphere.
2. It starts about 56 miles above the Earth's surface.
3. Here, again, the temperature begins to rise with altitude:
 - a. This is because the atmosphere in this region, while very thin, allows particles to move at extremely high speeds.
 - b. Temperature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

Ionosphere

1. The layer within both the thermosphere and mesosphere in which there are enough ionized particles to affect the transmission of radio signals:
 - a. Radio signals bounce off the ionosphere to extend their range past the horizon.
 - b. This effect is stronger at night when the Sun's radiation does not affect the ionosphere.
2. 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.
3. Begins about 37 miles above the Earth's surface and extends upward.
4. 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



1. 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:
 - a. The North Pole does not point directly up and down as the Earth spins but rather is inclined at 23.5° with respect to the orbital plane.
2. 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:
 - a. 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 daylight hours of the year:
 - i. On or around June 21, the Sun's most direct perpendicular rays are hitting the Earth at 23.5° N latitude, the Tropic of Cancer; this is the farthest north the perpendicular rays will be.

Meteorology Quick Study Academic

Leif Anders Runåberg



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Meteorology Michael Ruggie, 2012-05-31 Take the mystery out of common weather phenomena with BarCharts updated and expanded Meteorology QuickStudy guide Now in three panel format this guide contains up to date key information on weather patterns and the variables that affect them including the atmosphere heat and radiation severe weather clouds and fronts as well as charts and diagrams to further illustrate key processes This study tool can be used as an introduction to the field a personal guide to the weather or a companion to various weather related academic courses *Meteorology* BarCharts Inc, 2012-05-31 **The Journal of School Geography**, 1899 **Proceedings**, 1968 *Journal of School Geography*, 1899 *A to Z of Scientists in Weather and Climate* Don Rittner, 2014-05-14 Profiles more than 100 scientists from around the world who made important contributions to the study of weather and climate including David Atlas John Dalton Kristina Katsaros and Klaus Wyrski **Monthly Weather Review**, 1985 **Academic Press Dictionary of Science and Technology** Christopher G. Morris, Academic Press, 1992-08-27 A Dictionary of Science and Technology Color Illustration Section Symbols and Units Fundamental Physical Constants Measurement Conversion Periodic Table of the Elements Atomic Weights Particles The Solar System Geological Timetable Five Kingdom Classification of Organisms Chronology of Modern Science Photo Credits Pumafish Leif Anders Runåberg, 2014-02-27 Pumafish expands the classic elements of a World War Two thriller into a harrowing exploration of the shadow realm between reality and insanity romance and obsession set against the backdrop of a brutal Arctic environment Norwegian scientist rjan Ulvskog has been forced into service at the secret Nazi weather station on the Spitsbergen Archipelago close to the North Pole Suspecting him as an enemy collaborator his Norwegian countrymen refuse to rescue rjan after the German surrender in 1945 leaving him abandoned and isolated as the long polar night descends Only the memory of his fateful love for the married Rebekka La Roche who may have been murdered as a Jew under the Nazi terror keeps him from madness and gives him the strength to survive his ordeal The Public-school Journal, 1892 Mapping the Nation Susan Schulten, 2020-03-04 A compelling read that reveals how maps became informational tools charting everything from epidemics to slavery Journal of American History In the nineteenth century Americans began to use maps in radically new ways For the first time medical men mapped diseases to understand and prevent epidemics natural scientists mapped climate and rainfall to uncover weather patterns educators mapped the past to foster national loyalty among students and Northerners mapped slavery to assess the power of the South After the Civil War federal agencies embraced statistical and thematic mapping in order to profile the ethnic racial economic moral and physical attributes of a reunified nation By the end of the century Congress had authorized a national archive of maps an explicit recognition that old maps were not relics to be discarded but unique records of the nation's past All of these experiments involved the realization that maps were not just illustrations of data but visual tools that were uniquely equipped to convey complex ideas and information In Mapping the Nation Susan Schulten charts how maps of

epidemic disease slavery census statistics the environment and the past demonstrated the analytical potential of cartography and in the process transformed the very meaning of a map Today statistical and thematic maps are so ubiquitous that we take for granted that data will be arranged cartographically Whether for urban planning public health marketing or political strategy maps have become everyday tools of social organization governance and economics The world we inhabit saturated with maps and graphic information grew out of this sea change in spatial thought and representation in the nineteenth century when Americans learned to see themselves and their nation in new dimensions NOAA. United States. National Oceanic and Atmospheric Administration,1977 Dr. Lively's Ultimatum Waylon Livingston,2004-12 The wary politician submits to the subtle pressures from the President's scientific advisor He will listen to the far out plans of a decorated weather controller during the Vietnam war Dr Lively's condition for bringing an end to the drought in the Western States is to have an unprecedented Federal License to make rain The primary purpose of the permit to stop the drought is to shield his secret plans to control the devastation of an object from outer space when it collides with the earth For the first time in 65 million years the earth is at imminent risk of total annihilation Can a timely plan be developed to contain the devastating effects of the asteroid after it collides with the earth Considering his chances for reelection unless he begins an effort to relieve the drought the senator weighs his options After heated discussions he agrees that the renowned scientists who predicted this event for more than seven centuries must be taken seriously It remains to be seen if the expert and his team of eminent scientists can deliver on the challenges they have accepted **Meteorology** BarCharts Inc., Staff,1999-01-22 full size laminated meteorology guide *Glaciological Data* ,1977 **Tenth Anniversary Seminar ; Passive Microwave Users Workshop ; Microwave Radiometry Bibliography** Claire S. Hanson,1977 **Discovery** ,1920

Ie-Metereology Today C. Donald Ahrens,2002-08 *The Man Who Caught the Storm* Brantley Hargrove,2019-04-02 The saga of the greatest tornado chaser who ever lived a tale of obsession and daring and an extraordinary account of humanity's high stakes race to understand nature's fiercest phenomenon from Brantley Hargrove one of today's great science writers The Washington Post At the turn of the twenty first century the tornado was one of the last true mysteries of the modern world It was a monster that ravaged the American heartland a thousand times each year yet science's every effort to divine its inner workings had ended in failure Researchers all but gave up until the arrival of an outsider In a field of PhDs Tim Samaras didn't attend a day of college in his life He chased storms with brilliant tools of his own invention and pushed closer to the tornado than anyone else ever dared When he achieved what meteorologists had deemed impossible it was as if he had snatched the fire of the gods Yet even as he transformed the field Samaras kept on pushing As his ambitions grew so did the risks And when he finally met his match in a faceoff against the largest tornado ever recorded it upended everything he thought he knew Brantley Hargrove delivers a cinematically thrilling and scientifically wonky Outside tale chronicling the life of Tim Samaras in all its triumph and tragedy Hargrove takes readers inside the thrill of the chase the

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