

# METEOROLOGY

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

## 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

Principle Gases in Dry Air	
Constituent	Percent by Volume
Nitrogen	78.084
Oxygen	20.946
Argon	.934
Carbon dioxide	.034
Others	.000004
Water vapor	<0.01%
Water vapor is a variable gas, influenced by the others and more permanent.	

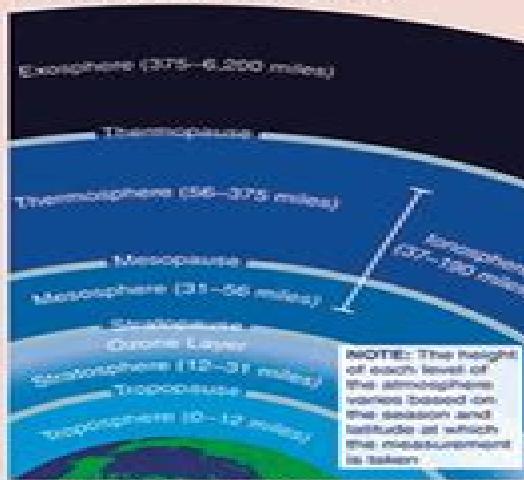
## Possible Origin/Creation

1. The Earth has what is known as a secondary atmosphere, or an atmosphere created after the formation of the planet.
2. The larger 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 "bubbled" up by large volcanoes.
    - iii. The combination of these outgassing 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.
    - iv. This hypothesis is more widely accepted.

## Comet Impact

- i. A comet is a giant cloud 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 1900 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 3-10 miles high at the equator.
- b. The troposphere's upper limit is called the tropopause and varies in height with both season and location.

3. In the troposphere, temperatures decrease with altitude; this is called a **lapse rate**.
  - a. This rate averages out to be  $-6.5^{\circ}\text{C}$  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**.

3. The ozone layer absorbs ultraviolet radiation from the Sun (see **Heat Transfer & the Greenhouse Effect**, p. 2, and **Ozone**, p. 4).
  - a. This is because of the Greenhouse Effect.
  - 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  $-100^{\circ}\text{C}$ .

## Thermosphere

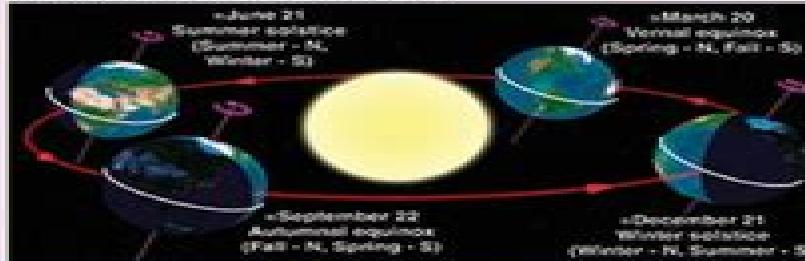
1. The layer of the atmosphere above the mesosphere.
2. It starts about 56 miles above the Earth's surface.
3. Here, again, the temperature begins to rise with altitude.
  - a. This is because the atmosphere in this region, while very thin, allows particles to move at extremely high speeds.
  - b. Temperature 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 3.7 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  $23.5^{\circ}$  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  $23.5^{\circ}$  N latitude, the **Tropic of Cancer**; this is the farthest north the perpendicular rays will be.

# Meteorology Quick Study Academic

**Vivian Siahaan, Rismon Hasiholan  
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## **Meteorology Quick Study Academic:**

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**METEOROLOGICAL DATA ANALYSIS AND PREDICTION USING MACHINE LEARNING WITH PYTHON** Vivian Siahaan, Rismon Hasiholan

Sianipar,2023-07-31 In this meteorological data analysis and prediction project using machine learning with Python we begin by conducting data exploration to understand the dataset's structure and contents We load the dataset and check for any missing values or anomalies that may require preprocessing To gain insights into the data we visualize the distribution of each feature examining histograms box plots and scatter plots This helps us identify potential outliers and understand the relationships between different variables After data exploration we preprocess the dataset handling missing values through imputation techniques or removing rows with missing data ensuring the data is ready for machine learning algorithms Next we define the problem we want to solve which is predicting the weather summary based on various meteorological parameters The weather summary serves as our target variable while the other features act as input variables We split the data into training and testing sets to train the machine learning models on one subset and evaluate their performance on unseen data For the prediction task we start with simple machine learning models like Logistic Regression or Decision Trees We fit these models to the training data and assess their accuracy on the test set To improve model performance we explore more complex algorithms such as Logistic Regression K Nearest Neighbors Support Vector Decision Trees Random Forests Gradient Boosting Extreme Gradient Boosting Light Gradient Boosting and Multi Layer Perceptron MLP We use grid search to tune the hyperparameters of these models and find the best combination that optimizes their performance During model evaluation we use metrics such as accuracy precision recall and F1 score to measure how well the models predict the weather summary To ensure robustness and reliability of the results we apply k fold cross validation where the dataset is divided into k subsets and each model is trained and evaluated k times Throughout the project we pay attention to potential issues like overfitting or underfitting striving to strike a balance between model complexity and generalization Visualizations play a crucial role in understanding the model's behavior and identifying areas for improvement We create various plots including learning curves and confusion matrices to interpret the model's performance In the prediction phase we apply the trained models to the test dataset to predict the weather summary for each sample We compare the predicted values with the actual values to assess the model's performance on unseen data The entire project is well documented ensuring transparency and reproducibility We record the methodologies findings and results to facilitate future reference or sharing with

stakeholders We analyze the predictive capabilities of the models and summarize their strengths and limitations We discuss potential areas of improvement and future directions to enhance the model's accuracy and robustness The main objective of this project is to accurately predict weather summaries based on meteorological data while also gaining valuable insights into the underlying patterns and trends in the data By leveraging machine learning algorithms preprocessing techniques hyperparameter tuning and thorough evaluation we aim to build reliable models that can assist in weather forecasting and analysis **Weather on the Air** Robert Henson, 2013-01-05 From low humor to high drama TV weather reporting has encompassed an enormous range of styles and approaches triggering chuckles infuriating the masses and at times even saving lives In Weather on the Air meteorologist and science journalist Robert Henson covers it all the people technology science and show business that combine to deliver the weather to the public each day Featuring the long term drive to professionalize weathercasting the complex relations between government and private forecasters and the effects of climate change science and the Internet on today's broadcasts With dozens of photos and anecdotes illuminating the many forces that have shaped weather broadcasts over the years this engaging study will be an invaluable tool for students of broadcast meteorology and mass communication and an entertaining read for anyone fascinated by the public face of weather

**Meteorology** BarCharts Inc, 2012-05-31 *Practical Exercises in Elementary Meteorology* Robert DeCourcy Ward, 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 Wyrki **The Journal of School Geography**, 1899 **Journal of School Geography**, 1899

**Monthly Weather Review**, 1919 *Flash and Roar* Sarah Michaels, Dive into the electrifying world of weather with this engaging book designed to spark curiosity and inspire young minds to explore the science of lightning and thunder From the basic principles of weather to the thrilling specifics of thunderstorms this resource is perfect for young readers eager to learn about the forces shaping our atmosphere Structured to be both educational and interactive each chapter builds on the last starting with fundamental concepts before moving to more complex ideas Learn about the formation of lightning the different types of lightning and how thunder complements these spectacular light shows Discover safe ways to gauge the distance of thunder and learn crucial safety tips for navigating storms both indoors and outdoors Delve into historical accounts of famous lightning strikes and uncover myths and facts about lightning safety Experiment with static electricity through hands on activities that reinforce the scientific concepts discussed and use the DIY weather station instructions to observe weather patterns right from your backyard Whether you're a budding meteorologist or a curious learner this book is your gateway to understanding the awe inspiring dynamics of thunder and lightning Explore learn and create as you embark on a storm chasing adventure through the pages **Report of the Committee of Ten on Secondary School Studies**

National Education Association of the United States. Committee of Ten on Secondary School Studies, 1894 **Report of the**

**Committee on secondary school studies. With reports of the conferences, held Dec. 28-30, 1892. (United States bureau of educ.).** National education association of the United States,1893      *School Education* ,1895      Report of the Committee of Ten on Secondary School Studies [appointed at the Meeting of the National Educational Association July 9, 1892 National Education Association of the United States. Committee of Ten on Secondary School Studies,1893      **Cruising World** ,1977-01      *Weather's Greatest Mysteries Solved!* Randall S. Cerveny,2009-06-23 Uses climatological evidence to answers questions ranging from what caused the Dust Bowl and why did Mayan civilization vanished      **Annual Meteorological Review of the State of California** California State Agricultural Society (Sacramento, Calif.),1891

**Bulletin of the American Meteorological Society** American Meteorological Society,1966 List of members in v 1 8 etc  
Moore's Meteorological Almanac and Weather Guide Willis Luther Moore,1900      Symons's Meteorological Magazine,1907

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