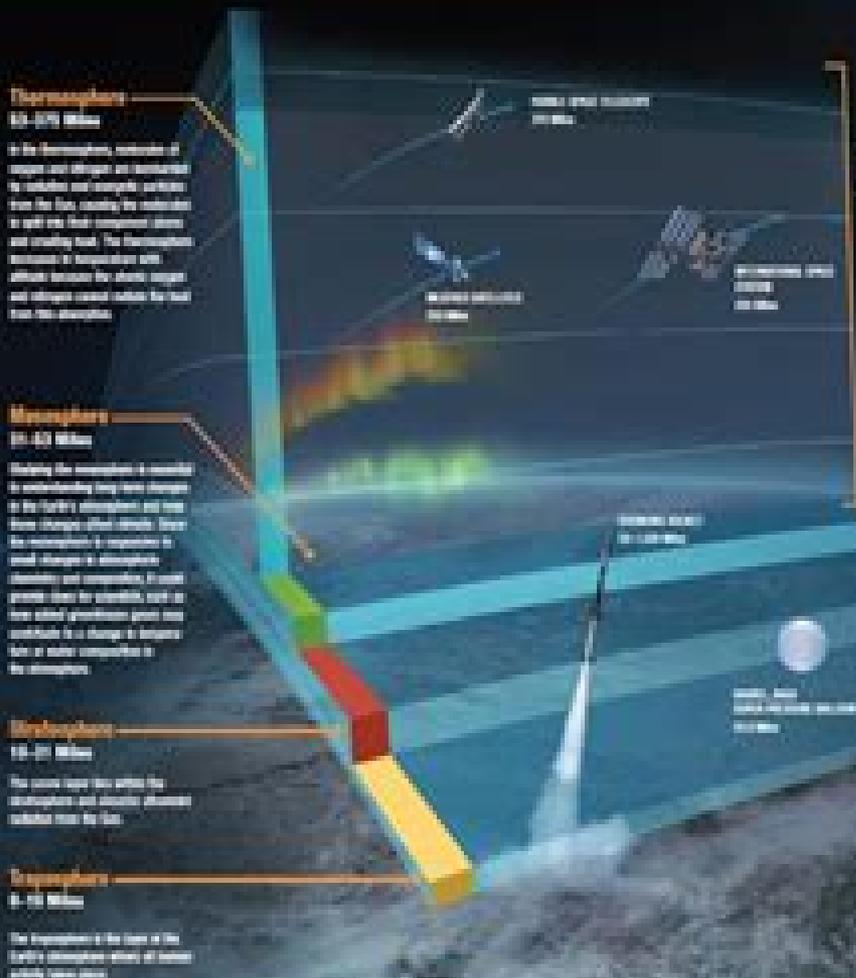


Upper Atmosphere

The Earth's atmosphere has four primary layers: the troposphere, stratosphere, mesosphere, and thermosphere. These layers protect our planet by absorbing harmful radiation.



Thermosphere

85-575 Miles

In the Thermosphere, molecules of oxygen and nitrogen are ionized by solar radiation. Auroras occur here due to the flow of charged particles from the Sun, causing the molecules to emit light and creating colorful displays in part of the lower atmosphere. The thermosphere extends to temperatures with altitude because the atomic oxygen and nitrogen cannot radiate away heat like the atmosphere.

Mesosphere

50-85 Miles

During the mesosphere, it is possible to experience long, low clouds in the Earth's atmosphere and they have changed their density. There the temperature is responsive to small changes in atmospheric density and composition. It could provide them to identify, and at the same time, provide a means to identify a change in temperature in a water composition in the atmosphere.

Stratosphere

10-50 Miles

The lower layer has within the mesosphere and stratosphere exhibits heat by the Sun.

Troposphere

0-10 Miles

The troposphere is the layer of the Earth's atmosphere where all human activity takes place.

Aurora of Ice in the Mesosphere (AIM)

AIM's primary focus is the Mesosphere (50) within our nearby solar night lighting clouds in the mesosphere. These ionized clouds are made of ice crystals that form over the summer pole at an altitude of 60 and a temperature too cold to melt upon death.



Ionosphere

The ionosphere is a layer of plasma formed by the ionization of atomic oxygen and nitrogen by highly energetic ultraviolet and X-ray solar radiation. The ionosphere extends from the bottom of the atmosphere up to the magnetosphere. This layer varies daily on the surface compared to solar radiation causes the ionization of the atoms, but can extend down as far as the ionosphere. However, these upper atmospheric layers are still mostly neutral, with only one in a million particles becoming charged daily. At night, the ionosphere usually collapses as the Sun's radiation ceases to interact with the atoms in the Thermosphere. There are still small amounts of charged atoms caused by cosmic radiation.

Balloons, Balloons, and Satellites

AIM's activities are balloon to collect locally measurements in the atmosphere. However, the mesosphere and thermosphere are too high for balloons to reach, so scientists use instruments on sounding balloons and satellites to gather more detailed measurements of the upper atmosphere.

Communication

A unique property of the ionosphere is that it can reflect short-wave radio waves, enabling communication over great distances by "bouncing" signals off the actual atmosphere layer. Variability of the ionosphere can interrupt satellite communication, such as errors in GPS signals for commercial air navigation. During solar storms, this layer can even shut down communication between ground stations and satellites.



Reddened Clouds in the Mesosphere

Evidence of changes in the behavior of reddened clouds has been observed by the AIM mission. Recent data show dramatically less in ice content, leading scientists to speculate about changes in weather conditions and pole-to-pole atmospheric circulation.



AIMMS

The Ballot Army for Radiation-Induced Molecular Structure Losses (AIMMS) is a balloon-based mission to expand the measurements of NASA's MSU spacecraft. AIMMS seeks to measure the propagation of molecular electrons from the ionosphere levels during two multi-balloon campaigns operated in the Southern Hemisphere.

Upper Atmosphere

J Dewey



Upper Atmosphere:

The Upper Atmosphere Sisir Kumar Mitra, 1992 **The Upper Atmosphere** John Clifford Bird, 1988 **The Upper Atmosphere** Richard A. Craig, 2016-06-03 The Upper Atmosphere Meteorology and Physics focuses on the study of the characteristics movements composition and observations of the upper atmosphere The book first offers information on the meteorological conditions in the lower stratosphere and the structure and circulation of the upper stratosphere and the mesosphere Topics include balloon sounding systems climatology of the lower stratosphere disturbed circulation of the lower stratosphere rocket measurements and frequent measurements with balloons and meteorological rockets The text then ponders on the sun s radiation and the upper atmosphere and composition of the stratosphere and mesosphere The manuscript elaborates on the composition and structure of the thermosphere including photochemical processes diffusion composition and structure measurements and structure of the thermosphere The text also ponders on radiative processes and heat transfer atmospheric tides and winds in the lower thermosphere and transport of properties in the upper atmosphere The publication is a valuable source of information for readers interested in the meteorology and physics of the upper atmosphere The Upper Atmosphere Chemical Society (Great Britain), 1939 **The Upper Atmosphere** Walter Dieminger, Gerd K. Hartmann, Reinhart Leitinger, 2012-12-06 Especially due to the increasing environmental problems there is a need to collect as many data as possible in the upper atmosphere This book serves as a general multidisciplinary guide and introduction for a more effective use of the large amount of now available data from the Earth s atmosphere It also shows the problems of the use of large amounts of time series data for basic science as well as for environmental monitoring and the related information systems The book is aimed for scientists and students interested in the Earth s atmosphere which is vital for the understanding of environmental changes in the global system Earth **ASTIA Subject Headings** Defense Documentation Center (U.S.), 1959 Scientific and Technical Aerospace Reports , 1965 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.), 1975 *Theoretical Interpretation of Upper Atmosphere Emission* David Robert Bates, 1964 **The Upper Atmosphere** Sisir Kumar Mitra, 1952 The Upper Layers of the Atmosphere I. A. Khvostikov, 1965 **Arequipa Pyrheliometry** Albert Moore Reese, Alfred Locke Parson, Anders Knutsson Ångström, Austin Hobart Clark, Charles Greeley Abbot, Edgar Alexander Mearns, Edgar Theodore Wherry, Gerrit Smith Miller, Kenneth Kent Mackenzie, Norman Eugene McIndoo, Smithsonian Institution, William R. Maxon, Frederick Eugene Fowle, Loyal Blaine Aldrich, 1916 **Bulletin** Mount Weather Observatory (Bluemont, Va.), 1912 *Proceedings of the Cambridge Philosophical Society* Cambridge Philosophical Society, 1906 Transactions American Geophysical Union, 1930 Philosophical Magazine , 1909 **Transactions of the Royal Society of Edinburgh** Royal Society of Edinburgh, 1902

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Whispering the Techniques of Language: An Emotional Quest through **Upper Atmosphere**

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