

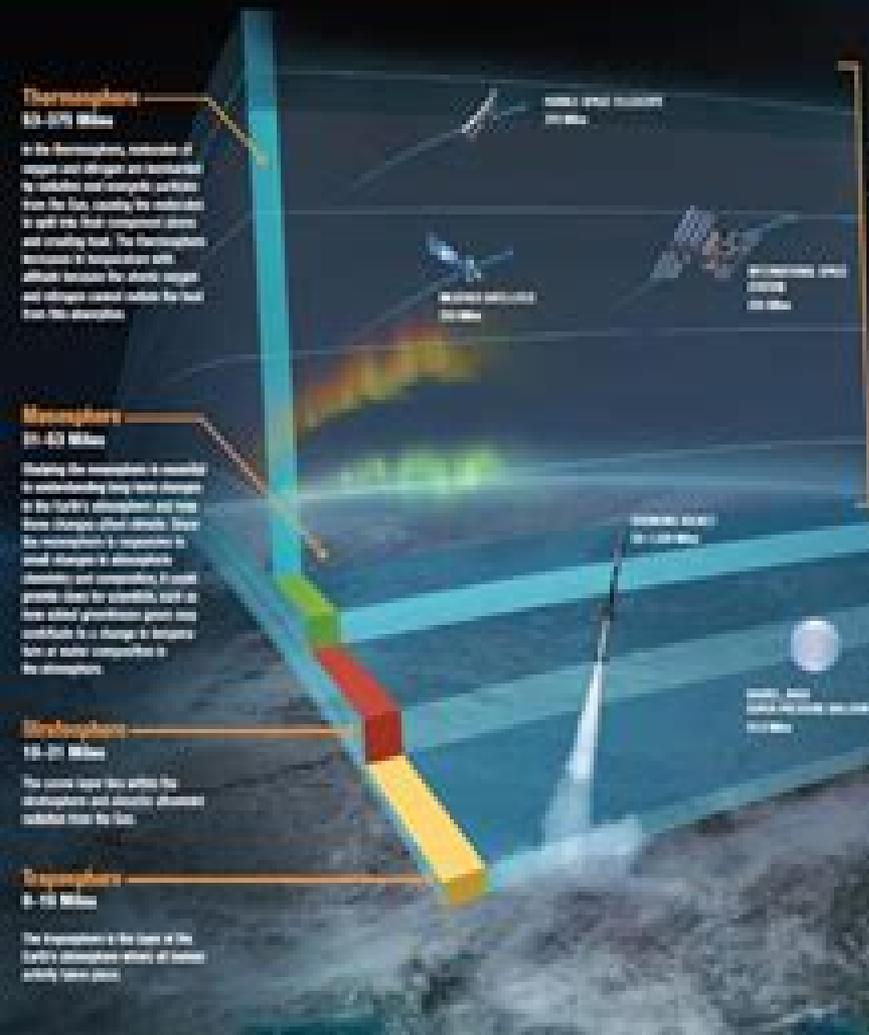
Upper Atmosphere

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



Absorbing Ice in the Mesosphere (JUNO)

JUNO's scanning of ice in the Mesosphere (JIM) reveals ice crystals were right where clouds in the mesosphere. These ice-filled clouds are made of ice crystals that form over the summer pole at an altitude 50 to 60 miles and a temperature too cold for water vapor clouds.



Thermosphere 50-600 Miles

In the Thermosphere, molecules of oxygen and nitrogen are ionized by solar radiation. This ionization produces free electrons and ions, creating the ionosphere that surrounds the Earth. The thermosphere extends to temperatures with altitude because the atomic oxygen and nitrogen cannot collide to cool the molecules.

Mesosphere 50-85 Miles

During the mesosphere, it is possible to see meteoroids being torn to shreds in the Earth's atmosphere and they burn (meteors or "shooting stars"). There the temperature is responsive to small changes in atmospheric density and composition. It could provide clues to climate, and it may affect global climate since the middle is a change in temperature like a water temperature in the atmosphere.

Stratosphere 50-100 Miles

The lower layer has within the stratosphere and clouds (stratocumulus) near the top.

Troposphere 0-10 Miles

The troposphere is the layer of the Earth's atmosphere where all weather actually takes place.

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 stratosphere up to the mesosphere. This layer varies daily in the daytime compared to solar radiation causes the ionization of the atoms, but can reflect waves as far as the ionosphere. However, from upper atmospheric layers are rich mostly neutral, with only one in a million particles becoming charged daily. At night, the ionosphere usually collapses in the dark, but it can be observed with the stars in the Thermosphere. There are still small amounts of charged atoms caused by cosmic radiation.

Balloons, Balloons, and Satellites

JUNO scientists use balloons to collect in-situ 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 JIM mission. Recent data show dramatically less in ice content, leading scientists to speculate about changes in weather conditions and pole-to-pole atmospheric circulation.



BARREL

The Ballot Army for Radiation-Induced Relativistic Electron Losses (BARREL) is a balloon-based mission to expand the measurements of NASA's STEP spacecraft. BARREL seeks to measure the precipitation of relativistic electrons from the ionosphere belts during two multi-balloon campaigns operated in the Southern Hemisphere.

Upper Atmosphere

Richard A. Craig



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 **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.),1975 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 **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 **Theoretical Interpretation of Upper Atmosphere Emission** David Robert Bates,1964 *The Upper Atmosphere* Sisir Kumar Mitra,1952 **ASTIA Subject Headings** Defense Documentation Center (U.S.),1959 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 **The Meteorological Magazine** ,1922 **Experimental Wireless & the Wireless Engineer** ,1927 Physics of the Air William Jackson Humphreys,1929 Proceedings of the Cambridge Philosophical Society Cambridge Philosophical Society,1906 *Transactions* American Geophysical Union,1930 **Philosophical**

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