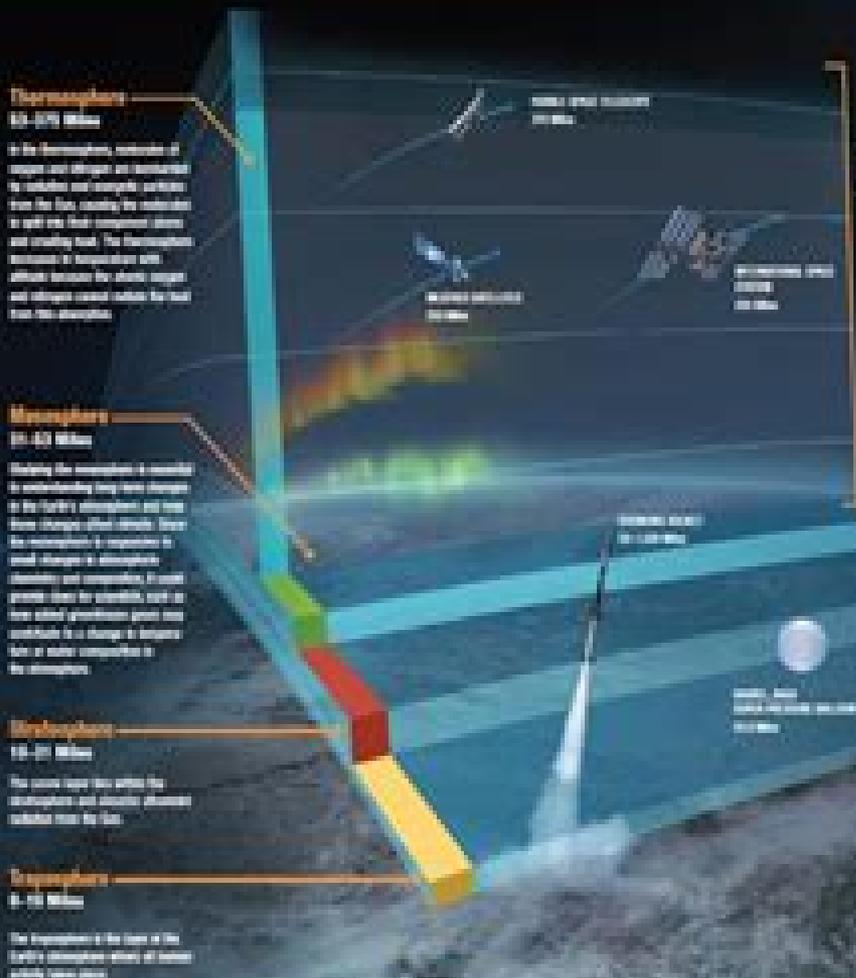


# Upper Atmosphere

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 ionospheric by molecules and completely ionized from the Sun, creating the ionosphere. It and the first two layers are ionizing heat. The thermosphere increases in temperature with altitude because the atoms, oxygen and nitrogen, cannot collide to cool from this absorption.

## Mesosphere

51-85 Miles

During the mesosphere, it is possible to see shooting stars, meteors, and the Earth's atmosphere and they have changes that occur. There is a decrease in temperature in most changes in atmosphere density and composition. It could provide them to identify, and it has other phenomena such as auroras and meteors. There is a change in temperature in a water composition in the atmosphere.

## Stratosphere

10-51 Miles

The second layer has within the atmosphere and it is the most abundant within 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 ionosphere where night lighting occurs in the mesosphere. These ionospheric clouds are made of ice crystals that form over the summer pole at an altitude of 50 miles and a temperature too cold for water vapor clouds.



## 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 caused by ionization of the atoms, but can extend down as far as the ionosphere. However, from upper atmospheric layers are with steady motion, with only one in a million particles becoming charged daily. At night, the ionosphere usually collapses in the dark, but it can extend with the atoms in the thermosphere. There are still small amounts of charged atoms caused by cosmic radiation.

## Balloons, Balloons, and Satellites

AIM scientists use balloons 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.

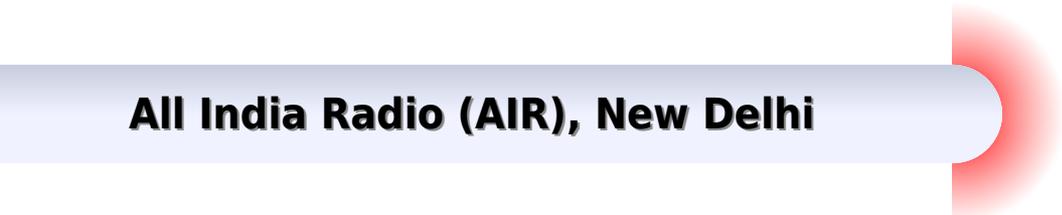


## AIMMS

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 In Motion

**All India Radio (AIR), New Delhi**



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