



NEWS BULLETIN

Plants and Pollution ENVIS RP-NBRI

Vol. 09, September 2021

World Ozone Day 2021-Montreal Protocol Keeping us, our food, and vaccines cool

CSIR-NATIONAL BOTANICAL RESEARCH INSTITUTE, LUCKNOW

World Ozone Day 2021: What is its significance? All you need to know

News9, 16 September 2021

The importance of the Ozone Layer, which is found in the Stratosphere above the Earth's surface, is taught in elementary school. Researchers reveal that the Ozone Layer is depleting and largely blame man-made, harmful gases like Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs) for the erosion of the Earth's protection shield. In 1913, French physicists Charles Fabry and Henri Buisson confirmed the presence of the Ozone Layer, and scientists in 1970, came across the tarnishing Ozone Layer. Therefore, with an aim to spread awareness, the United Nations General Assembly (UNGA) designated September 16 as the International Day for the Preservation of the Ozone Layer.

The high concentration of the Ozone gas that is found 10-30 km above the Earth's surface is commonly known as the Ozone Layer. It guards our planet against the harmful ultraviolet (UV) rays of the Sun and cuts down the radiation from reaching the Earth's surface. The lower portion of the Stratosphere is majorly formed of Ozone gas. The Stratospheric Ozone is naturally formed after a multistep chemical reaction between ultraviolet rays from the Sun and oxygen molecules, whereas the ozone in the Troposphere (lower atmosphere) is made via interaction between naturally occurring gases and those from pollution sources.

The main cause behind the depletion of the Ozone Layer is certain human activities, involving the use of a wide range of man-made chemicals. Substances involved in the manufacturing of consumer applications, like air conditioners, refrigerators, and fire extinguishers are

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World Ozone Day 2021: Why is it observed on 16 September? What is the Montreal Protocol?

Times Now News, 16 September 2021

World Ozone Day, also known as International Day for the Preservation of the Ozone Layer, is observed every year on September 16 to focus global action and attention on the preservation of the Ozone layer. And raise awareness about the issue of depletion of the ozone layer. September 16 was designated by the United Nations General Assembly as World Ozone Day.

The designation was made on December 19, 2000, in commemoration of the date, in 1987, when nations signed the Montreal Protocol on Substances that Deplete the Ozone Layer.

Six years before that, the UN General Assembly proclaimed 16 September the International Day for the Preservation of the Ozone Layer to commemorate the date of signing of the Montreal Protocol on Substances that Deplete the Ozone Layer.

United Nations defines it as 'a fragile shield of gas that protects the Earth from the harmful portion of the rays of the sun, thus helping preserve life on the planet.'

The aforementioned Montreal Protocol started as a global agreement to protect the ozone layer.

"A united global effort to phase out ozone-depleting substances means that today, the hole in the ozone layer is healing, in turn protecting human health, economies, and ecosystems. But, as this year's World Ozone Day seeks to highlight,.....

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International Day for the Preservation of the Ozone Layer 2021: Theme, History and Significance

News 18, 16 September 2021

September 16 every year is dedicated to a cause that might not be visibly relevant but is the most important in today's day and age. After a deal called Montreal Protocol on Substances that deplete the ozone layer signed by almost every country in 1987, the UN General Assembly, in 1994, proclaimed this day as the International Day for the Prevention of the Ozone Layer.

Humans have been a threat to the natural paradigm of the blue planet. One of the consequences of the oblivious actions harming the environment was the depletion of the fragile layer of gas that protects people on earth from harmful cosmic rays, called the ozone layer.

The Montreal Protocol was a deal for countries across the globe to curb the existence of all ozone-depleting substances such as aerosols, chlorofluorocarbon, halons, etc., widely used for cooling and refrigeration purposes. The usage of such harmful substances resulted in a hole in the ozone layers in Antarctica, first discovered in 1970, which led to acute global warming in the past 20 years.

However, the 1985 Vienna convention that gave rise to the Montreal Protocol did make a dent in the deadly disruption of the ozone layer, and in January 2021, the hole finally closed due to collective efforts of the entire world, according to the World Meteorological Organization.

This year's theme for the International Day for the Prevention of the Ozone Layer is 'Montreal Protocol – Keeping us, our food, and vaccines cool.' The theme is selected for the year 2021 to highlight the long-term

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Ozone Layer Hole Is Larger Than Antarctica In Size This Year, Scientists Say

ABP Live, 16 September 2021

This year, the ozone layer hole has been observed to be bigger than 75% of ozone holes found at this stage of the season since 1979, researchers from Copernicus Atmosphere Monitoring Service said.

The hole in the ozone layer, the protective shield in Earth's stratosphere absorbing harmful UV radiations emitted by the Sun, widens every year. But this year, the ozone layer hole is "larger than usual", and is currently even bigger than Antarctica in size, scientists monitoring the ozone layer have said.

Since 1979, the ozone layer hole has been monitored. This year, the hole has been observed to be developing rapidly and to be bigger than 75 per cent of ozone holes at this stage of the season since 1979, researchers from the Copernicus Atmosphere Monitoring Service (CAMS) said in a statement.

CAMS said in the statement that they were closely monitoring the development of this year's ozone hole over the South Pole, which has reached an extent larger than Antarctica, and has shown considerable growth in the last week, making it larger than 75 per cent of all ozone holes at this stage of the season since 1979.

In the statement, Vincent-Henri Peuch, Director of CAMS, said this year's ozone hole "evolved into a rather larger than usual one", and that they were looking at a "quite big and,....."

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