



Ozone Day Poster Making Competition



1st position
**AKANKSHA
ANAND**



Ozone Day Poster Making Competition



1st position
**AAYUSHI
SAHAY**





Ozone Day Poster Making Competition



2nd position
NANCY

OZONE FOR LIFE-35 YEAR OF OZONE LAYER PROTECTION

NANCY
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ABSTRACT

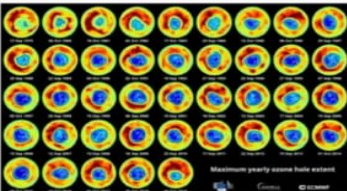
Ozone is an important constituent of the atmosphere. Ozone forms a distinct layer in the lower stratosphere known as the ozone layer. The ozone layer acts as a fragile shield because it protects man and other life forms from exposure to harmful short-wavelength ultraviolet (UV) radiation. The agents, particularly chemical, which affect the amount of ozone present in the atmosphere have been a source of concern for more than 20 years. This has been reinforced by the dramatic decline of stratospheric ozone levels first measured in Antarctica and now apparent worldwide. In 1994, the United Nations General Assembly proclaimed 16 September the International Day for the Preservation of the Ozone Layer.

What is Ozone Layer depletion?

Ozone depletion, gradual thinning of Earth's ozone layer in the upper atmosphere caused by the release of chemical compounds containing gaseous chlorine or bromine from industry and other human activities. The thinning is most pronounced in the polar regions, especially over Antarctica.

Why Ozone Layer is Important?

The ozone layer effectively blocks almost all solar radiation of wavelengths less than 290 nanometres from reaching Earth's surface, including certain types of ultraviolet (UV) and other forms of radiation that could injure or kill most living things.

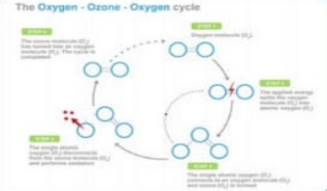


Maximum yearly ozone hole extent

Impact of ozone layer depletion

- Ozone layer depletion causes increased UV radiation levels at the Earth's surface, which is damaging to:
 - ✓ Human health
 - ✓ Skin cancers
 - ✓ Eye cataracts
 - ✓ Immune deficiency disorders
 - ✓ Plant growth
 - ✓ Climate change
 - ✓ Reducing agricultural productivity.
 - ✓ Destruction of marine life
 - ✓ Disturbed Plant life cycle

The Oxygen - Ozone - Oxygen cycle



Protection of Ozone Layer

1. Avoid the consumption of gases dangerous to the ozone layer, due to their content or manufacturing process. Some of the most dangerous gases are CFCs (chlorofluorocarbons), halogenated hydrocarbons, methyl bromide and nitrous oxide.
2. Minimize the use of cars. The best transport option is either, bicycle, or walking.
3. Avoid the consumption of gases dangerous to the ozone layer.
4. Do not use cleaning products that are harmful to the environment and to us.
5. Buy air-conditioning and refrigeration equipment that do not use HCFCs as refrigerant.
6. Buy second products that do not use HCFCs or CFCs as propellants.
7. Conduct regular inspection and maintenance of air conditioning and refrigeration appliances to prevent and minimize refrigerant leakage.
8. For existing air-conditioning and refrigeration appliances that operate on HCFCs or CFCs, the refrigerant should be recovered or recycled whenever an overhaul of equipment is to be carried out. Replacing or retrofitting such equipment to operate on non-HCFCs refrigerant should also be considered.
9. When motor vehicle air-conditioners need servicing, make sure that the refrigerants are properly recovered and recycled instead of being vented to the atmosphere.

CONCLUSION

There is no doubt that the problem of ozone depletion exists and deserves extensive research and attention. With the release of each and every CFC, our ozone layer takes one small step toward its destruction. The decision to ban completely CFCs sooner than later cannot be decided by the United States or even the United Nations. The entire world must unite in order to expel this problem forever.

REFERENCE

<https://www.epa.gov/ozone/impacts/impacts-ozone-layer-depletion-to-human-health>
<https://www.epa.gov/ozone/impacts/impacts-ozone-layer-depletion-to-human-health>
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3rd position
**NOOR
MANKOTIA**





Ozone Day Poster Making Competition



Special Mention
**OMJA
TIWARI**

SAVE OZONE



REDUCE EMISSION OF CHLORO
FLUORO CARBON



Ozone Day Poster Making Competition



Special Mention
**SRISHTI
GOYAL**

Ozone for life : 35 years of
Ozone layer protection



This year marks the 35 years of global ozone layer protection. September 16 is celebrated as World Ozone Day across the world to aware people about the depletion of the Ozone Layer and its impact on life.4