

# **Keeling Curve**

By IASToppers | 2024-05-15 15:40:00



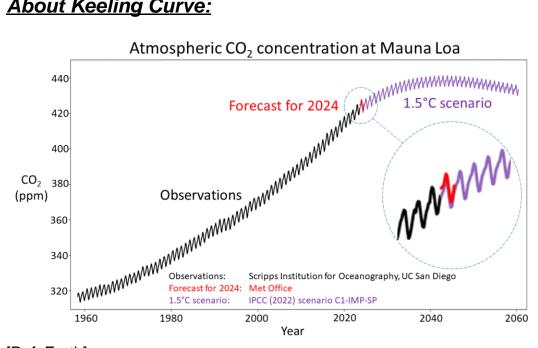
## **Keeling Curve**

March 2024 saw a significant jump in the **Keeling Curve** with a global average carbon dioxide (CO2) concentration of 4.7 parts per million (ppm), greater than March 2023.



[Ref: washingtonpost]

### **About Keeling Curve:**



[Ref: Earth]

- The Keeling Curve is a graph that shows the concentration of carbon dioxide (CO2) in Earth's atmosphere since 1958, created by Dr. Charles David Keeling.
- Measurements are taken at the Mauna Loa Observatory in Hawaii.

#### **Key Findings**

- The Keeling Curve reveals both **seasonal and long-term increases** in atmospheric CO2.
- Seasonal variations show higher CO2 levels in spring and lower in autumn due to plant photosynthesis and respiration cycles.
- Long-term data indicates a consistent rise in **CO2 levels**, attributed to fossil fuel combustion.



### **Significance**

- It provides the longest uninterrupted record of atmospheric CO2 levels, crucial for understanding climate change.
- The data shows a **clear upward trend**, illustrating the impact of human activities on global CO2 levels.
- The curve is instrumental in **climate science**, offering evidence for the greenhouse effect and informing climate models.