

## **Centre for Atmospheric Studies in collaboration with Centre for Studies in Geography observed 'World Ozone Day-2024'**

The Centre for Studies in Geography and the Centre for Atmospheric Studies jointly organized a successful one-day capacity-building workshop to commemorate Ozone Day on September 16, 2024. The workshop, convened by Dr. Shukla Acharjee and Dr. Binita Pathak, aimed to enhance participants' skills and knowledge in ozone and climate data handling through geospatial technology and other computational skills like google earth engine and Python, basically focusing on the theme of the day, "The Montreal Protocol: Advancing Climate Action." This celebration contributes to the "Sustainable Development Goal 13: Climate Action". World Ozone Day is celebrated every year to spread awareness among people about the depletion of ozone layer and measures to be taken to preserve it.

### **Inaugural Session**

The workshop commenced at 9:30 am with an introductory speech by Dr. Binita Pathak, one of the convener of the workshop. Dr. Pathak emphasized the significance of Ozone Day and protecting the ozone layer.

### **Technical Sessions**

The workshop featured three hands-on training sessions:

#### **1. Landslide Susceptibility Mapping under Climate Change Impact (9:45 am - 11:30 am)**

Arpana Handique, Assistant Professor, Centre for Studies in Geography, conducted the first session. Participants learned about landslide susceptibility mapping using geospatial techniques and its relevance to climate change.

#### **2. Introduction to Google Earth Engine (GEE) and Ozone and Other Atmospheric Constituents Data Analysis from Sentinel 5P (3:15 pm - 4:10 pm)**

Aniket Chakraborty led the second session, introducing participants to Google Earth Engine and its applications in analyzing ozone and atmospheric constituents' data from Sentinel 5P. This session highlighted the potential of GEE in monitoring and understanding atmospheric changes.

#### **3. Introduction to Giovanni Portal for Ozone and Other Atmospheric Constituents Data Analysis using Python (4:15 pm - 6:30 pm)**

Partha J Sahu and Uday Bhattacharjee conducted the third session, demonstrating the use of Giovanni Portal for data analysis and visualization using Python. This session equipped participants with practical skills in data analysis and visualization.

The workshop attracted research scholars, students, and faculty members from both centres. The diverse participation facilitated engaging discussions and knowledge sharing.

### **Conclusion**

The workshop concluded with a note from Dr. Binita Pathak at 5:45 pm, thanking the participants, resource persons, and organizers for their active participation and contributions.

The workshop successfully achieved its objective of enhancing capacity in geospatial technology and atmospheric science, particularly in the context of ozone layer protection.

This initiative demonstrated both of the centre's commitment to promoting awareness and capacity building on environmental issues, particularly ozone layer protection. The workshop reinforced the importance of interdisciplinary collaboration in addressing complex environmental challenges. The hands-on session has been made public on YouTube for benefit of the other students interested to build a career in the area of climate change science research.

