Space-Based Data for Climate Monitoring and Climate Change Impacts

Training provider: Center for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) and Indian Space Research Organization (ISRO)

Description: This will be a one day course. The course will provide a basic background on the earth observation derived data available for climate change studies. This will include the available climate change compatible EO retrieved data and how the information can be used for various climate change impact studies especially on extreme weather events in the tropical regions where the majority of the global populations lives. The course will also have an overview of satellite meteorology to introduce the nuances of satellite meteorology and use of EO data in monitoring and early warning of climate change induced disasters to the participants. There will be two demonstrations on the India's data portals on climate and environmental studies.

Format: One-day training programme open to international participants and will be conducted online through Learning Management System (LMS) of Indian Institute of Remote Sensing (IIRS), ISRO. There will be 3 lectures in the morning and 2 demonstrations in the afternoon. The tentative schedule is as follows:

1. Extreme Weather and Climate Change *(45 Min followed by 15 min Discussion)*
2. Overview of Satellite Meteorology *(45 Min followed by 15 min Discussion)*
   30 min break
3. EO for climate change induced disasters *(45 Min followed by 15 min break)*
   Lunch Break (60 min)
4. National Information System for Climate and Environment Studies (NICES) *(60 Min followed by 15 min Discussion)*
5. Demonstration on EO based weather forecast portal (MOSDAC) and Climate data portal (VEDAS) of ISRO *(60 Min followed by 15 min Discussion)*

Date and time: Tuesday, 19 September 2022, 0930 – 1600 IST

Requirements: Participants are required to register with IIRS LMS through the link provided below. The candidates will be sent the complete instruction for receiving the training through an automated e-mail on completion of the registration.

Prerequisites: Undergraduate-level knowledge of science and basic background knowledge geoinformatics.

Target audience: Students and young professionals interested to learn about EO based climate change studies.

Language: English.

Registration: Please click here to register. Registration is open until 17 September 2022.

Certification: On successful completion (should be actively logged on to the system) of the course the candidates will be provided with a link to download the participation certificate. The lectures will also be recorded and hosted on YouTube for the participants who due to time difference have not been able to attend the live classes.

Contact: For additional information, please contact unoosa-events@un.org