Climate Data and Seasonal Forecast Analysis Techniques

ICTP

11 January - 29 March 2023
An ICTP Virtual Meeting
Trieste, Italy

A collaboration with UNESCO, this online workshop will outline how to access and process gridded climate data.

Directors:

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Description:

Based on the eDX open-learning platform, the course will take the form of a series of pre-recorded, video-based lectures, each one focussed on a specific topic, with related exercises. The course assessment will consist of two larger assignments, which are assessed automatically. The successful completion of the assignments will lead to course certification. Once a week, the lecturer will be available for interactive tutorial sessions to help with issues related to the course.

In this initial release of this course the focus is on basic analysis techniques of reanalysis and climate data. The extension to sub-seasonal and seasonal prediction will be contained in part 2 which will follow in 2023.

Topics:

- Accessing state-of-the-art reanalysis climate data from the Copernicus Climate Data store
- Extracting data for specific areas and locations
- Calculating spatial and temporal statistics and anomalies
- Calculating derived variables and indices for extreme weather and heatwaves
- Making your own ENSO and Indian-Ocean Dipole indices
- Calculating the impact of ENSO on weather in your region of interest

Local Organiser:

A. TOMPKINS, ICTP, Italy

How to apply:

Online application:
http://indico.ictp.it/event/9777/

Female scientists are encouraged to apply.

Registration:

There is no registration fee.

Deadline:

11 November 2022

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