

UE Climate change







> Teaching language(s): English

> Open to exchange students: Yes

> Code d'export Apogée: PAX9SRAH

Presentation

Description

This course is given in English (or in French if all students are french speaking).

The course is a physical approach of the climatic change at the global level, in line with the Working group I of the IPCC .

The lectures (about 33-36h) give an overview of climate change causes and mechanisms at the global level. They are given by researchers of the IGE laboratory (**), and some visitors if any. Topics covered by these lectures are the following (they may slightly change depending on researchers availability):

- A global view of the surface warming, and its relationship with climatic forcings;
- Climatic sensitivities; scenarios of future warming;
- Extreme climatic events;
- Paleoclimatic variations and what they tell us on mechanisms;
- Modelling climate, from 1D to 3D models;
- A regional model, application to the mountain climate.





Students have a practical project to discuss a dataset, with the goal to get some grasp on what the data can tell us, their uncertainty, bias, etc. Outputs are both a written and an oral presentations of the results.

Course parts

CMTD Lectures (CM) & Teaching Unit (UE) 42h

Useful info

Campus

> Grenoble - University campus

