

UE Environmental flows



Level
Baccalaureate
+4



ECTS
3 credits



Component
UFR PhITEM
(physique,
ingénierie, terre,
environnement,
mécanique)



Semester
Tous les ans

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX7MEAN / PAX8MEAK

Presentation

Description

Environmental flows lecture aims at introducing geophysical fluid dynamic and showing how mechanistic approaches are commonly applied to describe the flows. The atmospheric boundary layer (ABL) is presented as an example, It is associated with its boundary conditions, namely the energy budget at the surface and the geostrophic circulation at the top.

1. Introduction and surface boundary conditions for ABL
2. Mathematical description of ABL
3. Introduction to turbulence
4. Similarity theory
5. Measurements in ABL

Course parts

CM	Lectures (CM)	16h
UE Environmental flows - TP	Practical work (TP)	8h

Useful info

Place

› Grenoble

Campus

› Grenoble - University campus