

# 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

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### Place

➤ [Grenoble](#)

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### Campus

➤ [Grenoble - University campus](#)