

# UE Introduction of geophysical fluids dynamics



Niveau d'étude  
Bac +4



ECTS  
3 crédits



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



Période de  
l'année  
Printemps (janv.  
à avril/mai)

- > **Langue(s) d'enseignement:** Anglais
- > **Ouvert aux étudiants en échange:** Oui
- > **Code d'export Apogée:** PAX7AMAA / PAX8MEAL

## Présentation

### Description

This course aims at introducing the basic knowledge on the dynamics of geophysical fluids, which are fluids influenced by the rotation of the Earth and by the fact that their density varies along the vertical. Examples are the ocean and the atmosphere. The main balances to which these fluids obey will be presented along with several classical models, such as the shallow-water-model. Applications to the ocean and the atmosphere will be illustrated by observations, laboratory experiments and numerical modelling.

### Heures d'enseignement

UE Introduction of geophysical fluids dynamics - CMTD

Cours magistral - Travaux dirigés

24h

**Période :** Semestre 7

## Infos pratiques

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## Lieu(x) ville

› Grenoble

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## Campus

› Grenoble - Domaine universitaire