Master Sciences de la Terre et des planètes, environnement
(ST302a) Climate - carbon cycle - carbonates

Responsables

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Descriptions

Code : LSTCU19

Nature :

Domaines : Sciences et Technologies

Informations

Composante : Observatoire des Sciences de l'Univers - Pythéas (OSU)

Nombre de crédits :

LANGUE(S) D'ENSEIGNEMENT

Anglais

CONTENU

- Link between global carbon cycle and oceanic processes (circulation, biogeochemistry, acidification, marine carbonates) : Glacial/Interglacial pCO2 variability, PETM (Paleocene-Eocene Thermal Maximum), Future expected changes (acidification, anoxic events)

- Link between long term pCO2 variation and tectonics : climate, geodynamics, sedimentary processes, erosion versus alteration processes

- Phanerozoic climate evolution (oceanic anoxic events, global carbon isotope stratigraphy) : causes, mechanisms & consequences on marine carbonate systems

- Global marine carbonate modeling : link with paleoclimate, paleo-oceanography and carbonate platforms

COMPÉTENCES À ACQUÉRIR

Develop a solid basis of knowledge of the carbon cycle and its relation with the climate system and carbonates reservoirs on a global scale, be able to analyze, interpret information from various sources and types (dealing with the physics and chemistry of the earth systems, based on modeling and observational and experimental results, be aware of the actual challenges in relation wit the global change, be able to synthesize information.

VOLUME HORAIRE

- Volume total: 30 heures
- Cours magistraux: 9 heures
- Travaux dirigés: 21 heures

CODES APOGÉE

- LSTCU17 [ELP]
- LSTCU17A [ELP]

M3C

Aucune donnée M3C trouvée

POUR PLUS D'INFORMATIONS

Aller sur le site de l'offre de formation...

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