

UE Frontiers in seismic imaging (Noise + FWI)







> Teaching language(s): English

> Open to exchange students: Yes

> Code d'export Apogée: PAX9GEAB

Presentation

Description

The aim of the Frontiers in seismology module is to present two innovative methods in seismology: seismic tomography using full waveform inversion and the use of seismic ambient noise for tomography and monitoring the temporal evolution of the Earth's crust.

The module is based on lectures as well as practical work (matlab/python) on seismic noise correlations and waveform inversion. Thus, the part on seismic noise correlations includes 3 TP sessions and 12 hours of lectures, while the course on waveform inversions includes 18 hours of lectures including practical work.

Recommended prerequisites:

Basic knowledge in seismology, signal processing, programming (matlab and/or python)

Course parts

UE Frontiers in seismic imaging - TD UE Frontiers in seismic imaging - CM/TD	Tutorials (TD) Lectures (CM) & Teaching Unit (UE)	18h 15h





Useful info

Campus

> Grenoble - University campus

