

Volcanic observatory field trip



Niveau d'étude
Master 2



ECTS
3 crédits



Volume horaire
80h



Période de
l'année
Semestre 3

Présentation

DESCRIPTION

Field trip in collaboration with researchers and engineers from the observatories of Lesser Antilles : Observatoire volcanologique et sismologique de Guadeloupe (OVSG) or Observatoire volcanologique et sismologique de Martinique (OVSM).

The aim is to become familiar with the geologic history and eruptive behaviour of an active volcano (geodynamic context, structural and volcanological evolution of the volcano, eruptive dynamics), the different multiparameter monitoring systems available, and how this knowledge is used to support scientific crisis response and public policy for risk prevention. This is achieved through field trips visiting geological outcrops and active areas on the volcano, participations to monitoring observations with staff from the observatory, discussions at the observatory, scientific presentations, comments on different scientific papers on the volcano's history and behavior, its geodynamic context, and analog volcanoes.

It is implemented on La Soufrière de Guadeloupe, (Lesser Antilles), one of the active volcanoes monitored by IPGP, alternating with Montagne Pelée, Martinique (Lesser Antilles). In 2026 the course will take place in Martinique.

OBJECTIFS

Understanding the behavior of subduction zones and active volcanoes

- knowledge of volcanic processes, edifices, deposits and associated eruptive styles
- Knowledge of volcanic hazards and risks
- Knowledge of the instrumentation for monitoring of the volcanoes and of the role of French volcanological and seismological observatories
- Knowledge of the modelling and assessment of natural hazards and risks and the role of science in providing advice to authorities in charge of civil protection and risk reduction

HEURES D'ENSEIGNEMENT

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80h

PRÉ-REQUIS OBLIGATOIRES

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Taking the course: « Volcanic Systems »

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