



## RISQUES NATURELS

### NATURAL RISKS

Lecturers: Richard PERKINS

| Lecturers : 14.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : AN

### Objectives

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The objective of this course is to present the different types of environmental hazards, and the associated risks. Prevention, forecasting and protection techniques will be presented for each type of risk.

**Keywords :** Hazards, risks, environment, urbanisation, volcanoes, earthquakes, avalanches, landslides, hurricanes, storms, floods

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### Programme

1. Definition of risk  
Different types of hazard, geographical distribution, impact, notions of frequency and intensity
2. Tectonic risks  
Volcanoes, earthquakes, landslides, avalanches
3. Meteorological and hydrological risks  
Hurricanes, storms, floods, tsunamis, climatic events

### Learning outcomes

- Students should understand the links between natural phenomena and their impact on human society
- For each type of risk, students should be aware of the possible ways of handling the risk (prevention, protection, prediction....) and their limitations.
- For a given location, students should be able to identify the different types of natural risk to which the population is exposed.

### Independent study

**Objectifs :** This activity is not concerned with framed autonomy activities outside personal work.

**Méthodes :** This activity is not concerned with framed autonomy activities outside personal work.

### Core texts

BERNSTEIN, P., *AGAINST THE GODS: THE REMARKABLE STORY OF RISK*, Wiley  
SMITH, K. & PETLEY, D.N. *ENVIRONMENTAL HAZARDS: ASSESSING RISK AND REDUCING DISASTER*, Routledge  
VOSE, D. *RISK ANALYSIS: A QUANTITATIVE GUIDE.*, Wiley

### Assessment

Report on a subject related to natural hazards.