



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Climate Change Impacts On Geohazards

2223-2-F7401Q110

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#### Aims

Provide advanced knowledge on the effect of Climate Change on geological hazards

#### Contents

Study of the most important climate variables

Study of climate forcings on geologic hazards, analysis of mechanisms, analysis of trends in the recent past, and forecasts for the future

#### Detailed program

1. Introduction to the problem of climate change from a geological perspective
2. Analysis of trends over the past century of the most important climate variables relevant to natural hazards
3. Study of variations on extreme events
4. Impact of climate change on landslides (drivers, mechanisms, recent trends, and future predictions)
5. Impact of climate change on floods (drivers, mechanisms, recent trends, and future predictions)
6. Impact of climate change on avalanches (drivers, mechanisms, recent trends, and future predictions)
7. Impact of climate change on water availability (drivers, mechanisms, recent trends and future predictions)

#### Prerequisites

The Geologic Hazard Assessment course is recommended.

## **Teaching form**

lectures (4 CFU)

tutorials (2 CFU)

## **Textbook and teaching resource**

IPCC Sixth Assessment Report: "Impacts, Adaptation and Vulnerability"

<https://www.ipcc.ch/report/ar6/wg2/>

## **Semester**

second semester

## **Assessment method**

Preparation of a paper on a specific issue discussed with the lecturer and presentation of the work

## **Office hours**

Monday-Friday: 14-16

## **Sustainable Development Goals**

CLIMATE ACTION

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