UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Climate Change Impacts On Geohazards

2223-2-F7401Q110

Aims

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

Contents

ury 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