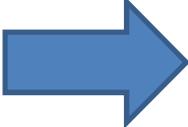


MANAGEMENT OF NATURAL HAZARDS IN MOUNTAIN BASINS

Introduction to the course

Dr. Francesco Comiti
Academic year 2014/2015

Aim of the course

- Understand the main geomorphological processes in MB
 - Learn how to minimize their adverse effects for humans, maintaining natural dynamics as much as possible
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- Sustainable land and water use
 - Sound and effective restoration projects design

Outline of the course

Basics of geomorphology

Landslides

Debris flows

Floods

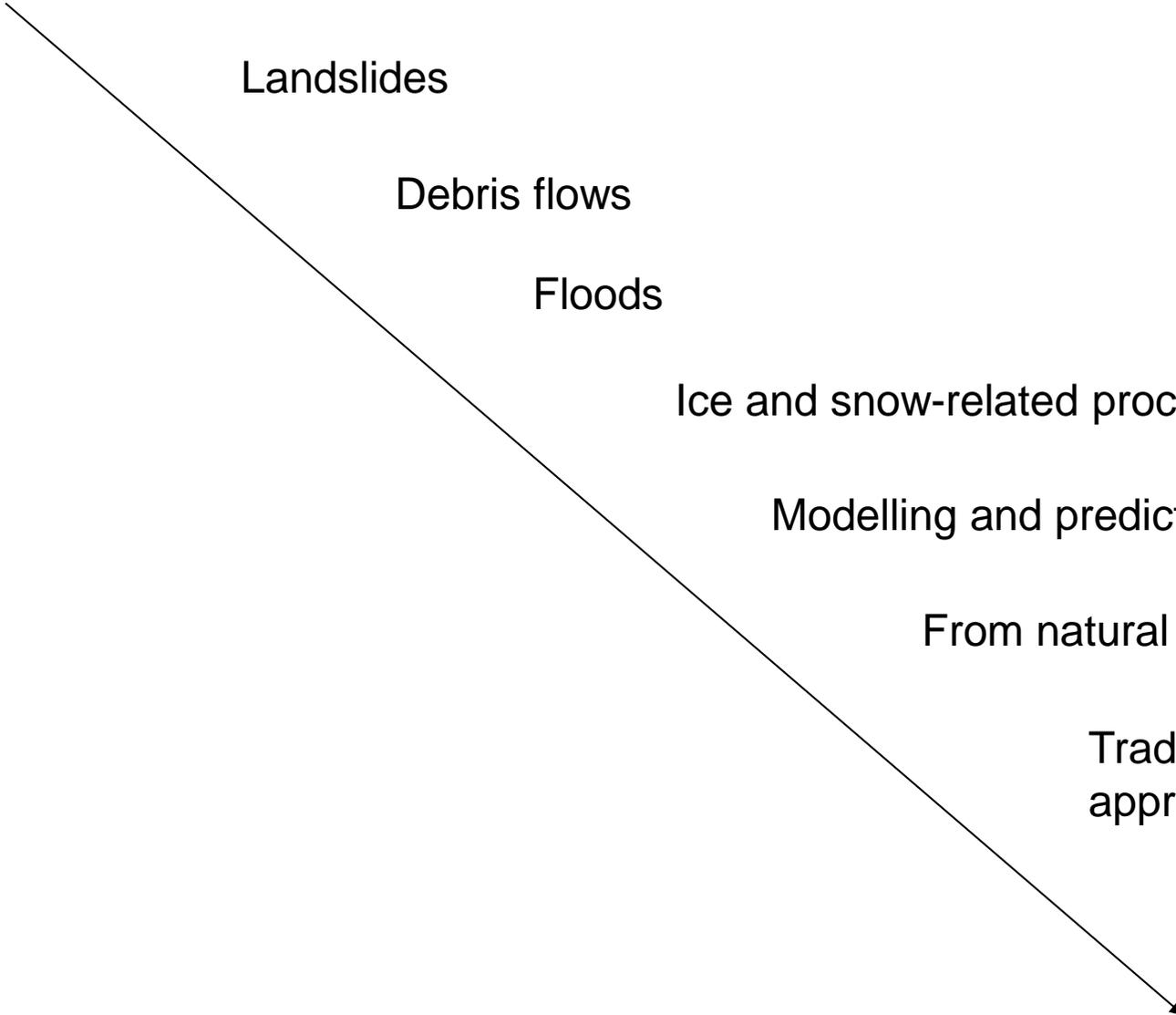
Ice and snow-related processes

Modelling and prediction of NH

From natural hazards to risk

Traditional risk mitigation
approaches

Modern management
strategies



Outline of the course

- 20 hours of lectures
- 2 hours of computer class
- 8 hours of field visit (upper Vinschgau/Venosta valley)

PLEASE NOTE:

- Attending classes is not mandatory, only attentive students welcome
- Use of laptops and cell phones not permitted in class
- Do not hesitate to ask for any doubt at the end of classes, by email, and by Moodle forum !
- If an English term is not understood, ask rightway !
- T.A. Dr. Daniele Penna will help for field and lab classes

Study material

- Lectures and online resources posted on the Moodle site:

<http://kronos.education.unibz.it/FUBmoodle/course/view.php?id=255>

Password: NH

- Textbooks (individual chapters will be indicated for each topic)
 - K. Gregory and A. Goudie (2011) The Sage handbook of Geomorphology
 - P. Bierman and D. Montgomery (2014) Key concepts in geomorphology. Freeman publisher
- Scientific papers posted on the Moodle site

The exam

- The mark for this course will be assigned based on:
 - an oral exam (70 %)
 - an individual report (30 %) on the lab class and field visit
- To pass the exam both parts must be sufficient (>18)