

International Remote Sensing Summer School, II edition

Experiencing Remote Sensing on Mont Blanc (Italian Western Alps, Courmayeur):
Remote and proximal sensing for monitoring alpine environment

17-21 June 2024, Courmayeur, Aosta Valley, Italy

FONDAZIONE
MONTAGNA SICURA
MONTAGNE SÛRE
WONLYCHNE ŽOKE

IRSSS 2024 Contents

June 17th 2:00pm Meeting at Piazzale Monte Bianco, Courmayeur

Welcome and introduction of the 2^oIRSSS activities

Lectures:

- Geological evolution of the Western Alps
- Climate data analysis in mountain regions: the fundamental function of Pyramid Laboratory

Planning of the field activities at Val Veny

Welcome Drink

June 18th - Topic: Photogrammetric analysis of the Miage Glacier

Excursion to the Miage Glacier in Val Veny, acquisition of optical data from UAV, survey of ephemeral lakes

Lectures and laboratories: Acquired-data processing and application examples.

June 19th- Topic: Monitoring of landslides and glaciers by proximal RS

Principle of the GBSAR Interferometer and visit to the landslide monitoring system

Excursion to the Planpincieux glacier with visit to the operational monitoring systems,

Lectures:

- Geophysical surveys on glacier environments
- LiDAR point clouds processing for glacier cave mapping
- Glaciers & Students Project, the new Pakistan glaciers inventory

Elements of radiometric data acquisitions and planning of the field activities at Mt Bianco

June 20th - Topic: Radiometric data acquisition and processing on snow and ice Meeting at Skyway M. Bianco

- Pavillon I, lecture: "Safety in mountain environment, Mountains Guides
- Ascent of Helbronner peak: Radiometric data acquisition by field spectral-radiometer on snow and ice

Lectures and laboratories: Spectral data processing,

June 21th

Lectures and laboratories

- Topographic corrections on high mountain areas,
- Earth Observation systems and management at the Arpa VDA
- Glaciers monitoring systems

1:00pm Closing greetings

