

IPA Action Group Rock glacier inventories and kinematics

Program - Workshop II

11-13 February 2020

University of Fribourg – Department of Geosciences, Unit of Geography

Venue: University of Fribourg - Department of Geosciences, Unit of Geography, Chemin du Musée 4, 1700 Fribourg, Switzerland ([map](#))

Day 1 Tuesday 11.02.2020

09:00 – 09:30 Welcome desk open

09:30 – 10:40 Plenary session – Kinematics as an optional attribute in rock glacier inventories (Room 0.026 - Ground floor)

1. General introduction to the workshop (C. Barboux, M. Winterberger, R. Delaloye – 15')
2. ESA CCI+ Permafrost (A. Bartsch – 10')
3. Achievement of task 1 (Baseline concepts for rock glacier inventories) (R. Delaloye – 15')
4. Kinematics as optional attribute in rock glacier inventories : background and objectives (R. Delaloye – 15')
5. Discussion – 15'

10:40 – 11:00 Refreshment break

11:00 – 12:30 Practical exercise Part 1: Identification and characterization of moving areas (Room 2.236 – 2nd floor)

1. Introduction to the exercise (C. Barboux – 15')
2. Practical exercise (all – 75')

Lunch 12:45 – 13:45

14:00 – 15:30 Practical exercise Part 2: Assign velocity class to rock (Room 2.236)

1. Continuation and synthesis of practical exercise, part 1 (all - 30')
2. Introduction to practical exercise, part 2 (C. Barboux, R. Delaloye – 15')
3. Practical exercise (all – 30')
4. Synthesis of practical exercise, part 2 (all - 15')

15:30 – 16:00 Refreshment break

16:00 – 18:00 Discussion session (Room 0.026)

19:30: Evening meal in Fribourg (Les Menteurs)

Day 2 Wednesday 12.02.2020

09:00 – 10:00 Plenary session – Rock glacier kinematics as an associated parameter of ECV Permafrost (Room 0.026)

1. Introduction (C. Barboux – 5')
2. Kinematics trend in Switzerland as a potential climatic index? (R. Delaloye – 15')
3. Building up a regional index for rock glacier kinematics : objectives (R. Delaloye – 10')
4. Next GCOS Implementation Plan (P. Schoeneich – 15')
5. Discussion – 15'

10:00 – 11:30 Methodologies for producing rock glacier kinematical time series (Room 0.026)

1. Monitoring rock glacier kinematics with Satellite Synthetic Aperture Radar (T. Strozzi – 15')

10:30 – 11:00 Refreshment break

2. 20 years time-series of rock glaciers displacement from optical images (P. Lacroix – 15')
3. Real 3D deformations from Lidar measurements (R. Kenner – 15')

11:30 – 12:30 Discussion session – Evaluation of available technics allowing for monitoring kinematics of rock glaciers (Room 0.026)

1. Introduction to the discussion (L. Rouyet and X. Bodin – 15')
2. Discussion – 45'

Lunch 12:45 – 13:45

14:00 – 15:30 Discussion session - Standards for individual time series (Room 0.026)

1. General agreement on required standards
2. Evaluation of required standards according to available technics

15:30 – 16:00 Refreshment break

16h00 -17h30 : Discussion session - Standards for deriving regional relative time series (Room 0.026)

1. Definition of a "region"
2. Selection of reference rock glaciers
3. Production of relative time series, including merging of various types of data

19:30 Evening meal in Fribourg (Les Trois-Rois)

Day 3 Thursday 13.02.2020

09:00 – 12:30 Parallel working session – Finalization of day 1 and 2 (Room 2.226 – 2nd floor)

Kinematics as an optional attribute in rock glacier inventories

1. Technical issues regarding the implementation of a kinematical attribute in the *practical guidelines* for inventorying rock glaciers (+ revision working document, version 1.0)

Rock glacier kinematics as an associated parameter of ECV Permafrost

2. GCOS review for individual kinematical time series (= GCOS data)
3. Exploitation of “GCOS data” for deriving regional relative time series (+ revision working document, version 1.0)

10:30 – 11:00 Refreshment break

Lunch 12:45 – 13:45

14h00 – 16:00 Closing session (Room 0.026 – Ground floor)

- Main results of the workshop
- Open issues
- Next steps
- Varia

16h00... Closing drink 😊 !