Biogeomorphic interactions and patterns on Little Ice Age lateral moraines

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Geomorphology and ecology of glacier forefields and lateral moraines

Research questions (RQ)

**RQ 1** How can biogeomorphic dynamics on lateral moraines be characterized and which patterns are produced?

**RQ 2** Which species on lateral moraines are geomorphic-engineer species?

**RQ 3** Under which conditions can biogeomorphic interactions occur?

Study area

Turtman glacial forefield (Valais, Switzerland)

Biogeomorphic approach

Vegetation, geomorphic, soil and environmental survey in 50 permanent plots

Geomorphic properties

- Geomorphic activity
  - Waters flow
  - Geomorphic activity
  - Water flow

Vegetation properties

- Vegetation classes
  - Calcareous
  - Vegetation class 2

Soil properties

- Soil type

Patch dynamics

Time since deglaciation is not related ($r^2=0.05$) to gradients in species compositions!

\rightarrow Biogeomorphic patches and patterns

References

For more information

\url{http://example.com}