Mapping landscapes by analogue astronauts in Switzerland

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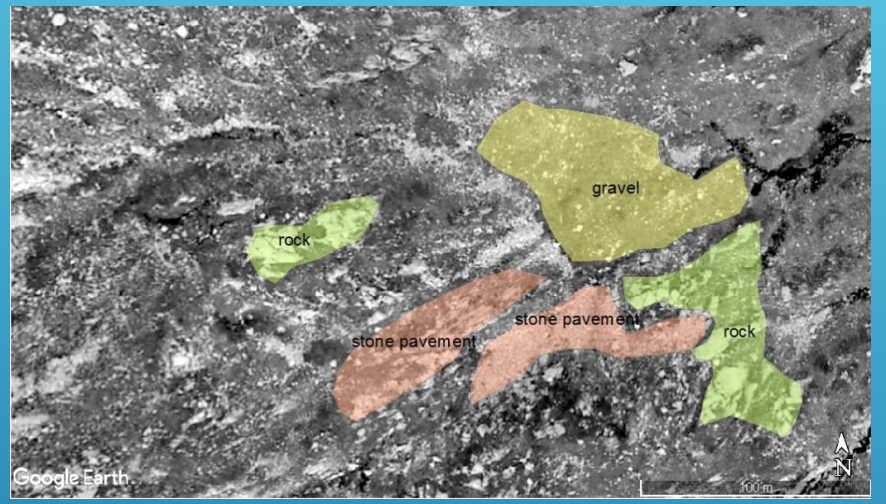
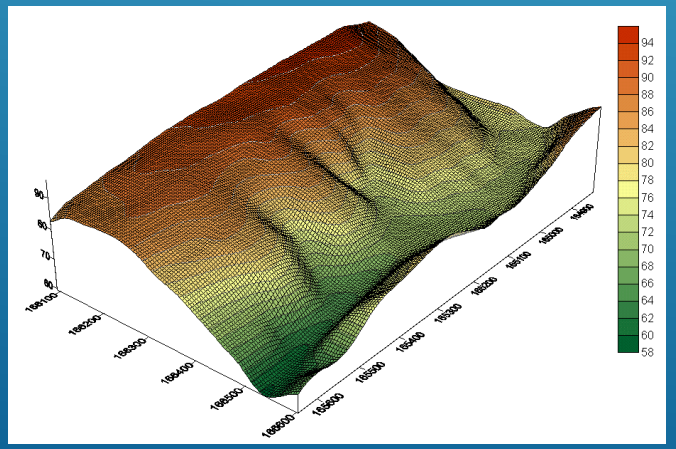
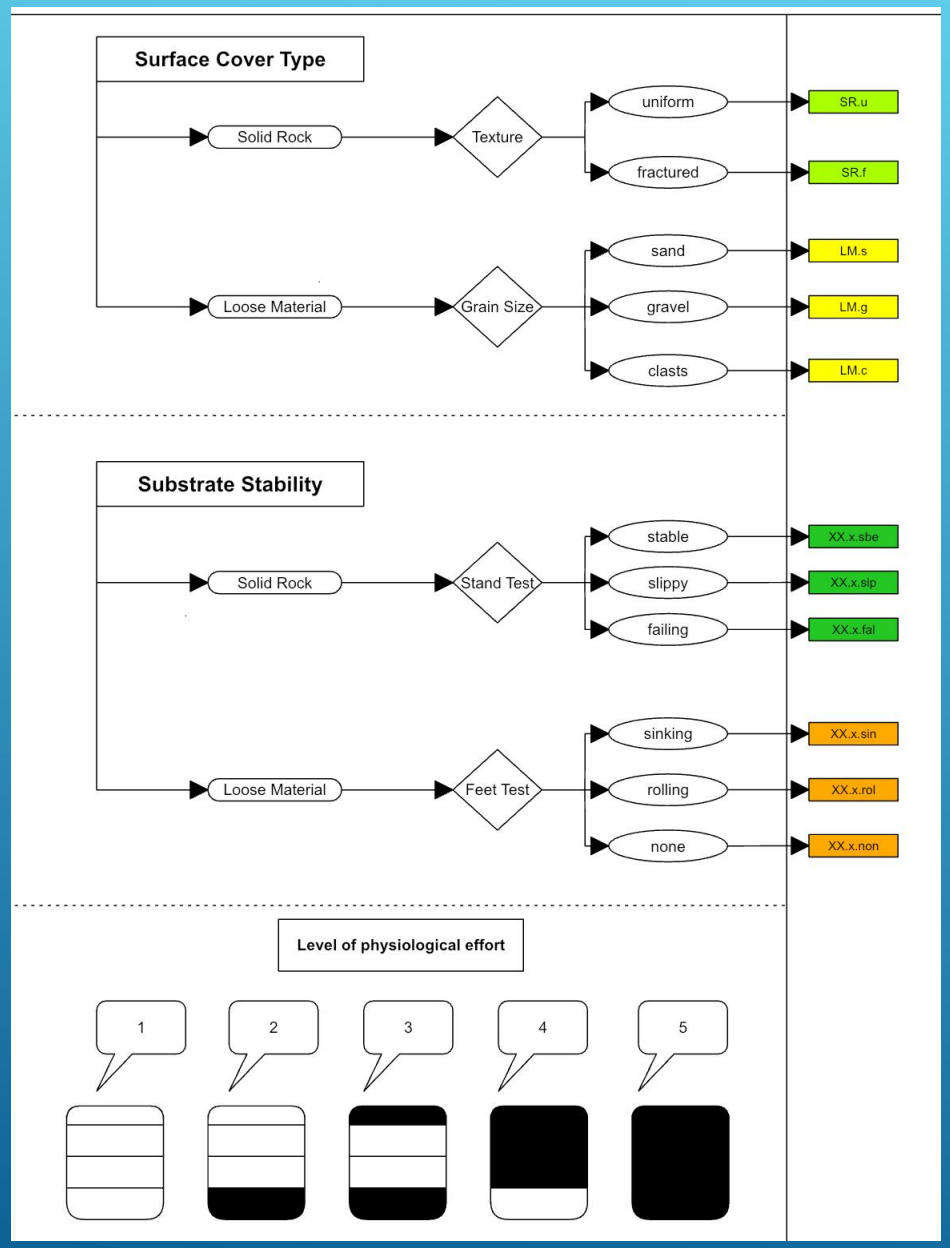
WHAT IS GEOREMAP?

- First approach for mapping landform features on foreign planets by astronauts

- New geographical education program
- New landform classification system







WHAT IS IMPORTANT?

- Simple way to describe landform properties without deep background in geomorphology
- Simple way to assess landform properties without using complex instruments

- Prepare astronauts efficient for their task
- Identify crucial information astronauts need to work as geographers

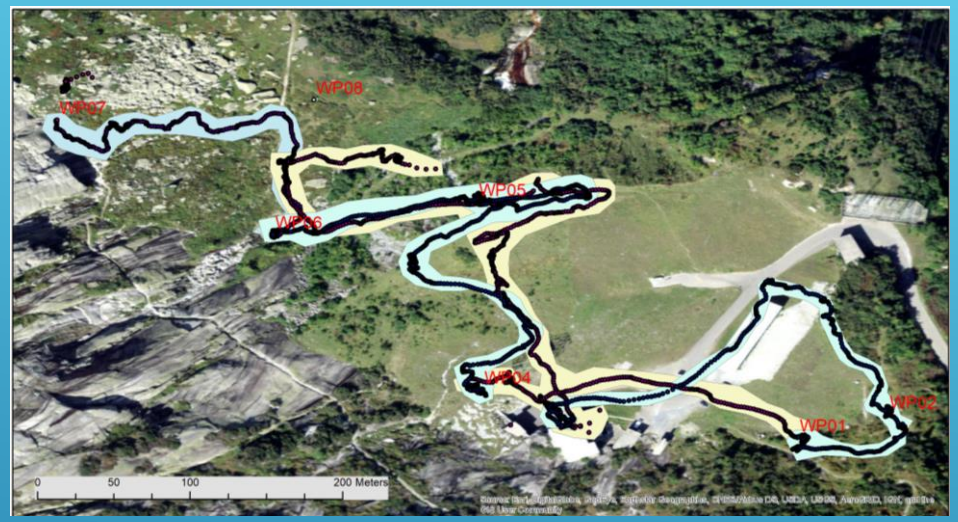
Earth analogue study at the Grimselpass, July 2021

WHAT WE DID

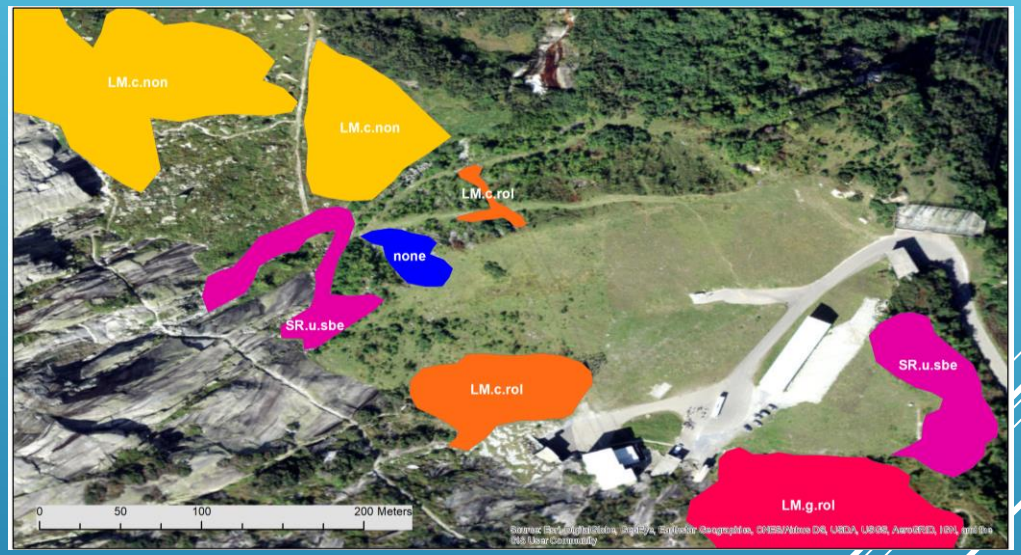
- We developed a new landform classification system that is optimized to be used by astronauts without a geoscientific education
- We developed a new education program to prepare non-geographers for performing geographical field work
- We developed a new geotracking App together with Bluesat (Australia)

Practical Training with analogue astronauts, May 2021

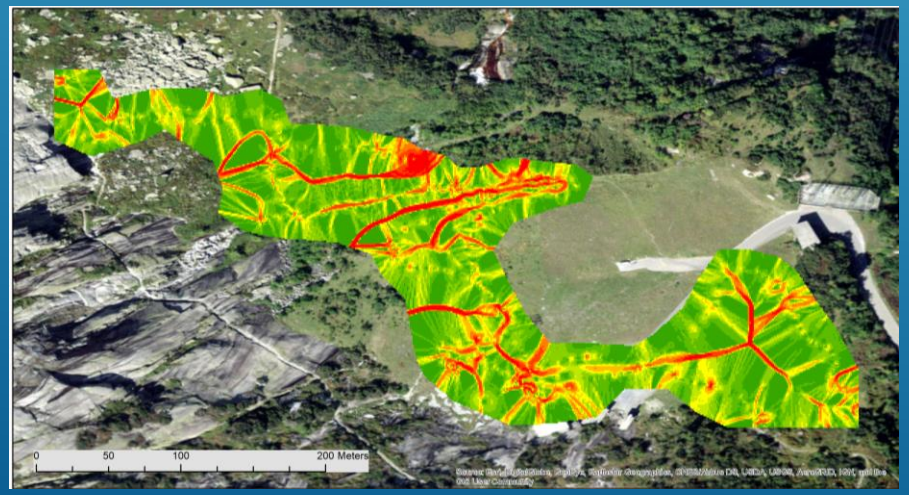
RESULTS



Astronauts pathway tracked by Bluesat App



Determined landform features, based on the landform classification system



Digital Elevation Model, based on measured altitude by the Bluesat App

CONCLUSION

- It is possible to prepare non-geographers for geographical field work
- Analogue astronauts are able to identify and describe landform properties