





AlpSenseRely Project



Mass balance of glaciers and morphological changes using aerial imagery (two master thesis)

Where?

Ötztal Alps / Zillertal Alps

What?

Quantification of landscape changes such glacier retreat, moraine instabilities, debris flows and increased sediment transport using time series of aerial imagery.

Field work: Further details will be discussed
Data analysis: python and Qgis (previous knowledge is desire)

When?

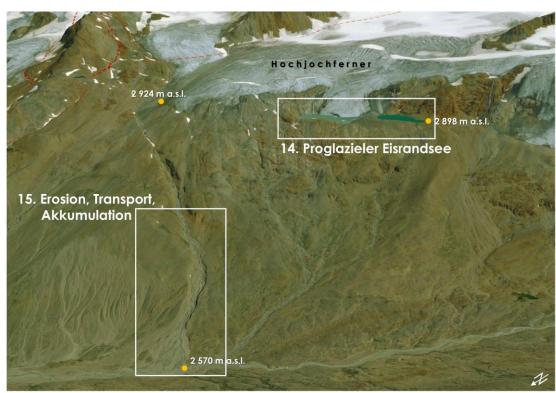
Winter semester 2022

Language

English

Application with curriculum vitae and motivation letter barbosa@biologie.uni-muenchen.de and siegert@realitymaps.de





Reference work:

Analyzing glacier retreat and mass balances using aerial and UAV photogrammetry in the Ötztal Alps, Austria. Geissler et al., 2021. https://doi.org/10.5194/tc-15-3699-2021









AlpSenseRely Project



You can support us with:

- The quantification of geodetic mass balance of the glaciers.
- The identification of landscape changes, i.e., moraine instabilities, debris flows, and increased sediment transport, using temporal series of aerial imagery.
- Ideas and feedback to improve the current workflows and interpretation of the results.

You bring with you:

- Knowledge of remote sensing, photogrammetry, and basic python.
- Interest in understanding earth surface processes in the context of climate change.
- Analytical and conceptual skills as well as independent work style
- Assertive communication, collaborative attitude, and creativity.

We offer you:

- An interesting and challenging job with great potential to contribute with your own ideas and experience and to further develop your personal skills.
- An exciting workplace in the RealityMaps headquarter (Dingolfinger Str. 9, 81673 München).
- The opportunity to collaborate with project partners at the BAdW.

