

Exploring the potential of debris thermal inertia as a proxy for debris thickness

In this project you will use **in-situ and remotely sensed data** over a debris covered glacier (Zmuttgletscher, Valais) to understand the daily thermal response of debris cover to climatological conditions. You will compute **Apparent Thermal Inertia (ATI)** in different ways by taking into account different environmental parameters (from a few to several), in order to test if there is a link between ATI and the **debris thickness**. At first starting **from point-scale** and then extend to **spatial scale**. This could become a **novel method** to estimate debris thickness which is crucial for sub-debris glacier melt estimations!

You should be enthusiast about **data processing** and thinking out-of-the-box, being passionate about glaciers is a plus!

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