3-years Postdoctoral Position (70%) in remote sensing of snow

The Remote Sensing Research Group (RSGB), Institute of Geography, University of Bern, Switzerland has an opening of a Postdoc position on remote sensing of snow extent (SE). This position is part of a new project funded by the European Space Agency (ESA) in the frame of the Climate Change Initiative (CCI) program. The successful candidate will contribute to the ESA CCI+ snow project starting mid-September 2018. The goal of the project entails a snow extent time series (1981 – 2020) at global and continental scale retrieved from Advanced Very High Resolution Radiometer (AVHRR) data. The main focus of the research position will be on algorithm development, (pre-) processing of AVHRR GAC and LAC data, and validation of the products with additional satellite data (e.g. Sentinel-2, Landsat-8, MODIS) as well as in-situ measurements. The researcher should also contribute to the project reports required by ESA. In addition, a close collaboration with the team members of the international CCI+ snow consortium and RSGB scientists is expected. Phase 1 of the ESA CCI+ project is funded for a duration of 3 years (until mid-August 2021).

Your profile:
- PhD in remote sensing with focus on operational systems
- Experience in processing of AVHRR data
- Excellent skills in programming (IDL, Python, Matlab) and statistical data analysis
- Excellent knowledge in English and good writing skills

Your tasks:
- Algorithm development for the retrieval of snow extent
- Data processing (with support from our ITC expert and an external CCI+ team)
- Data analysis, product validation, and uncertainty assessment of the snow extent product depending on land cover and topography
- Presentation and publication of results at project meetings and international conferences
- Contribution to reporting to ESA
- Supervision of future master students within this project

Application: Applications should include (i) CV, (ii) letter of motivation and (iii) two contacts for reference.
Please, send your application in ONE pdf to stefan.wunderle@giub.unibe.ch.