

# NoR Project- ID 1a1511

Project achievements

Shared by Arpan Sharma.

# Glacier facies characterization in Eastern Himalaya

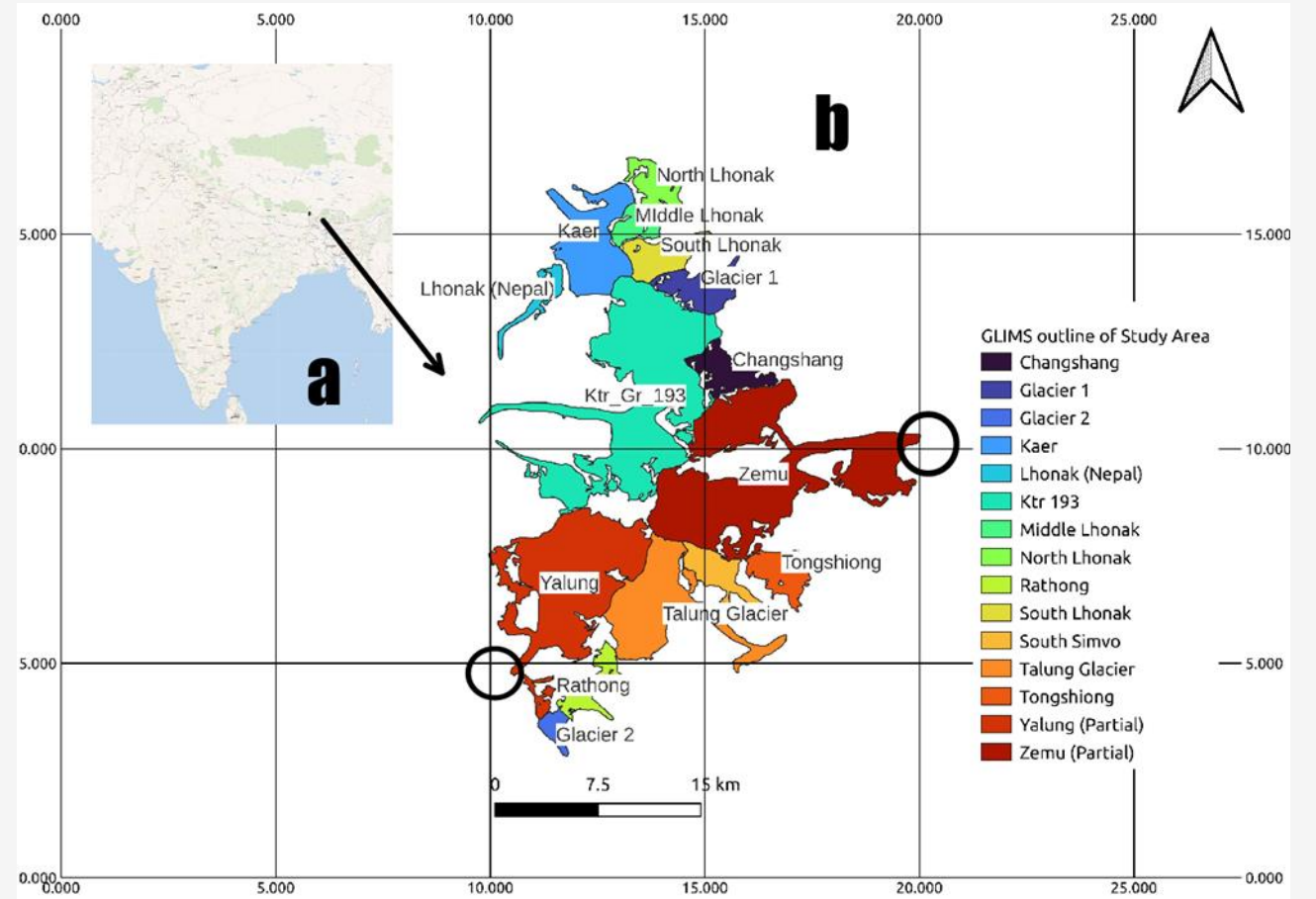
Glacier facies were characterized in transboundary glaciers of eastern Himalaya.

The study area map is presented in the following image in the right. It borders three nations namely Nepal, India and China.

It was found that almost 20.56% of the area is debris covered.

Debris cover classification requires a great accuracy which was only possible through resources provided by NoR.

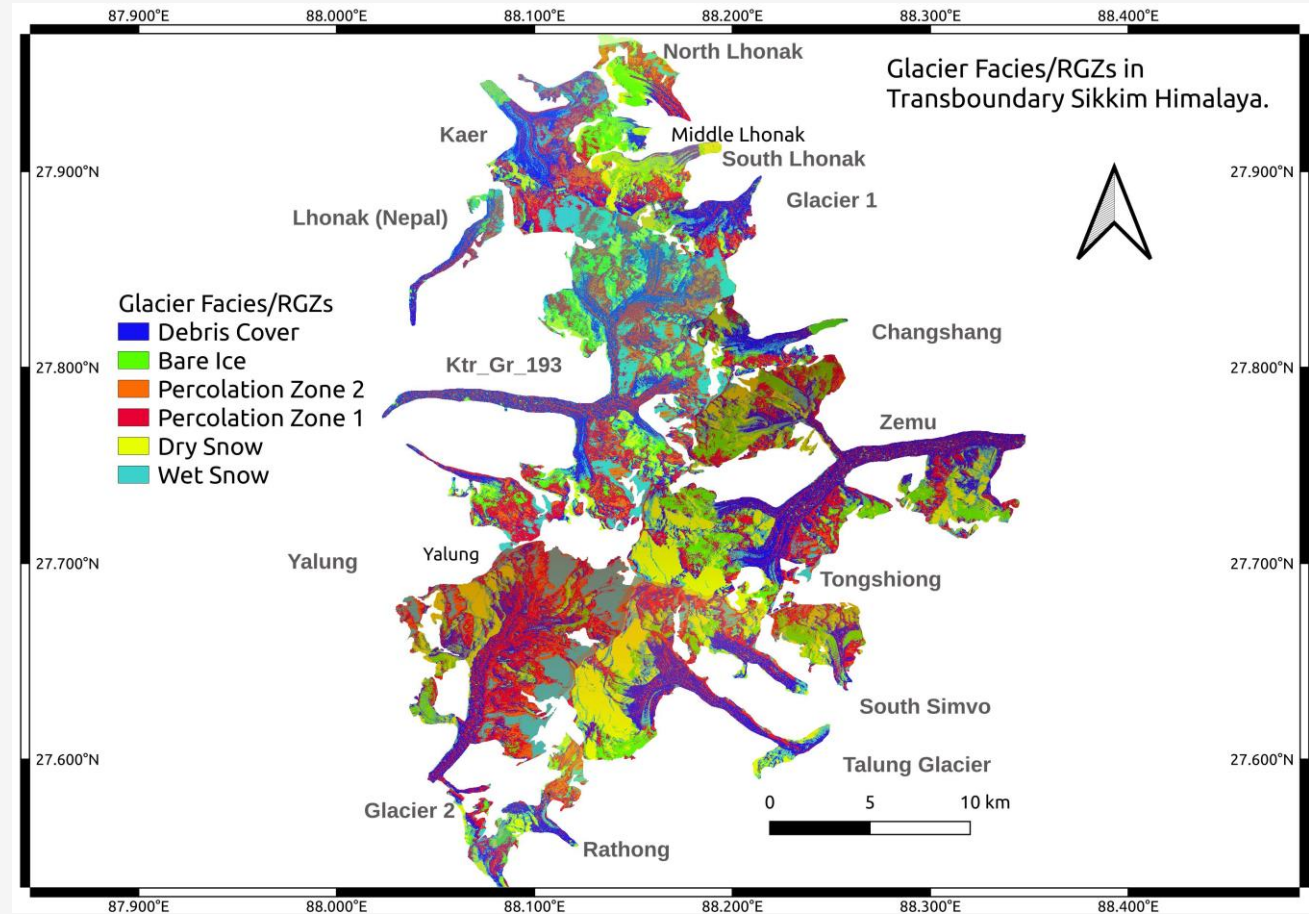
Facies shall be utilized for mass balance related study in the study area.



# Facies characterization.

The image in the right shows the maiden facies characterization in the Eastern Himalayas.

Results are communicated to the Journal of Spatial Science and the manuscript is currently under review post minor revisions.



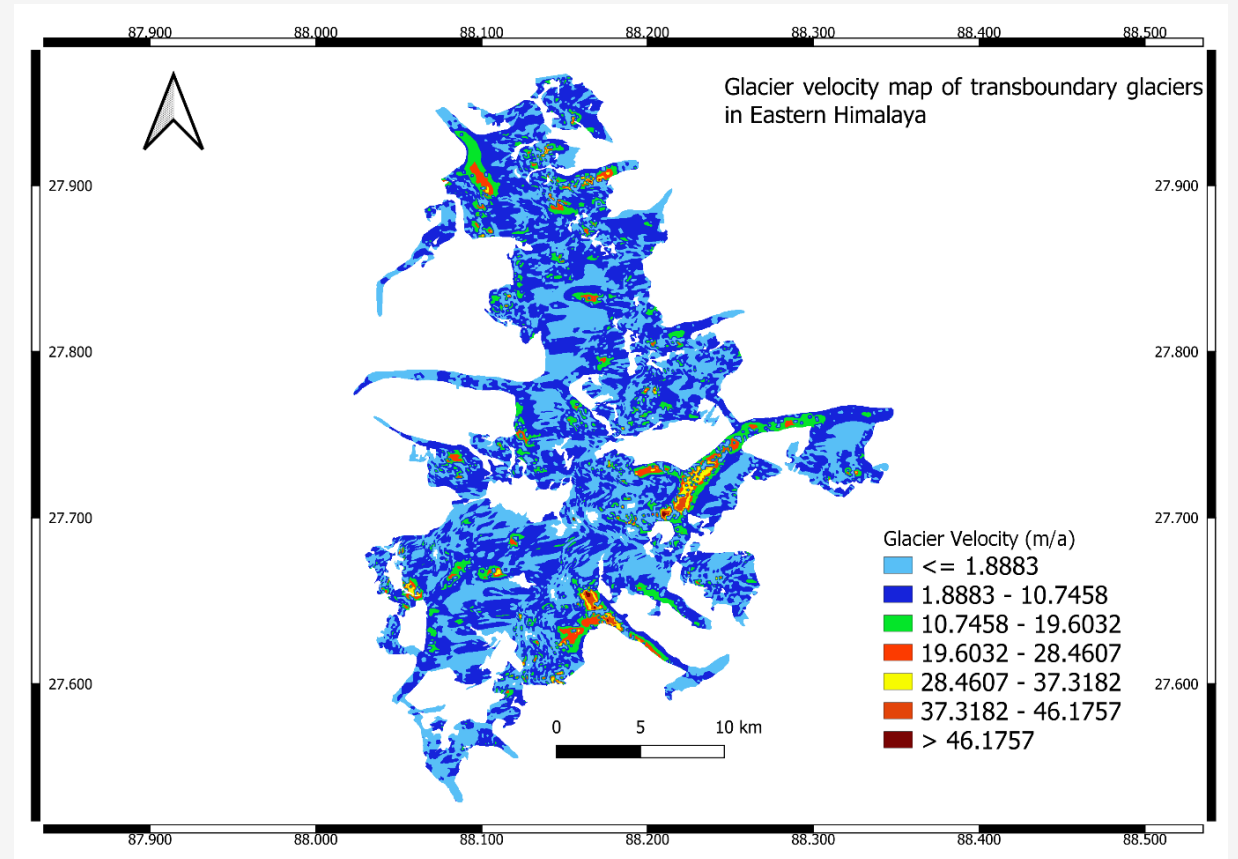
# Velocity Estimation.

In the same study area velocity has been estimated for same glaciers.

It was observed that glaciers having higher velocity showed significant retreat thus by forming glacial lakes.

Results were communicated to the International Electronic Conference on Geosciences conducted by Geosciences conference (MDPI)

Currently Abstract is approved for presentation in the conference and manuscript is pending approval.



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We would like to thank ESA NoR for providing valuable resources. The communicated paper details shall be shared once they are accepted.