

Supplementary Material

1 SUPPLEMENTARY TABLES AND FIGURES

1.1 Figures

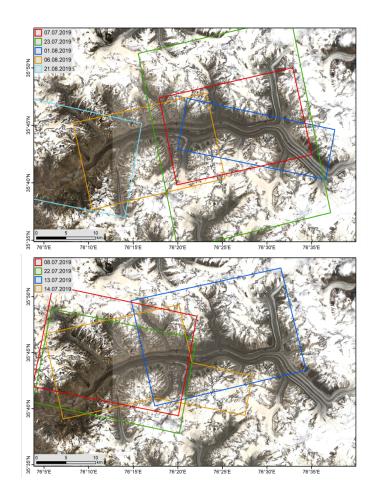


Figure S1. Overview of the acquisition coverages used for the accuracy assessment of the supraglacial lake area for optical and SAR data.

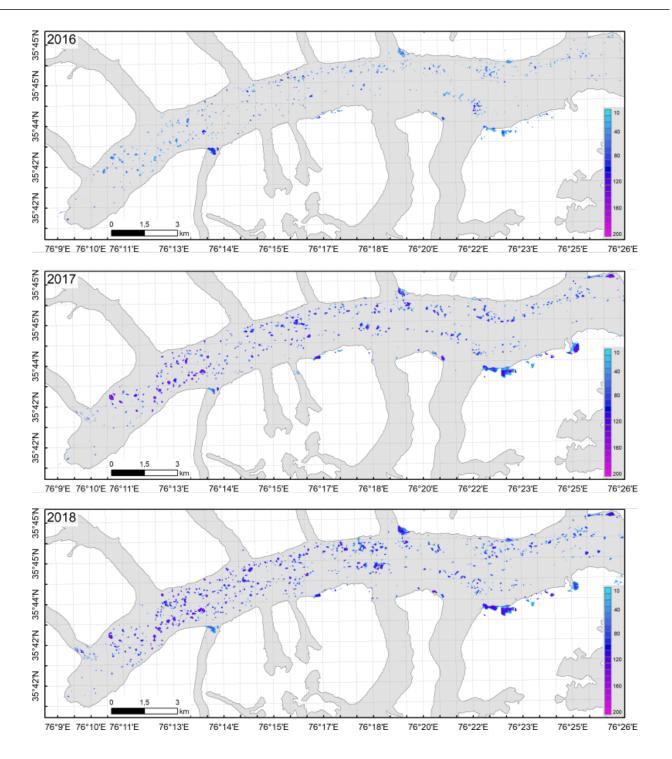


Figure S2. Distribution of supraglacial lakes and duration of water coverage in days for the complete glacier for 2016 to 2018

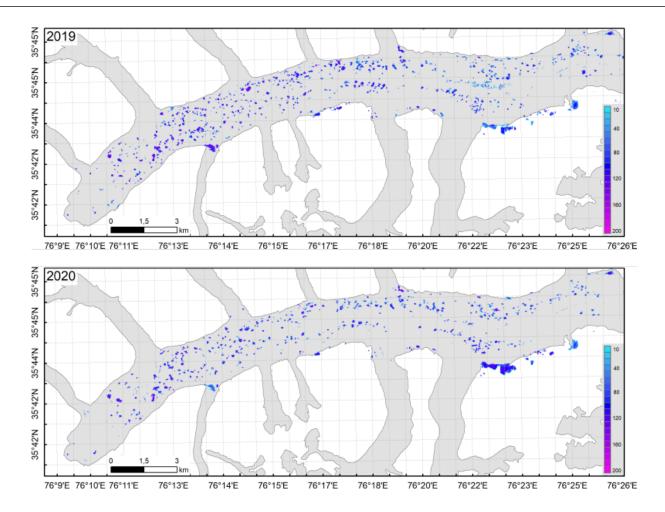


Figure S3. Distribution of supraglacial lakes and duration of water coverage in days for the complete glacier for 2019 to 2020

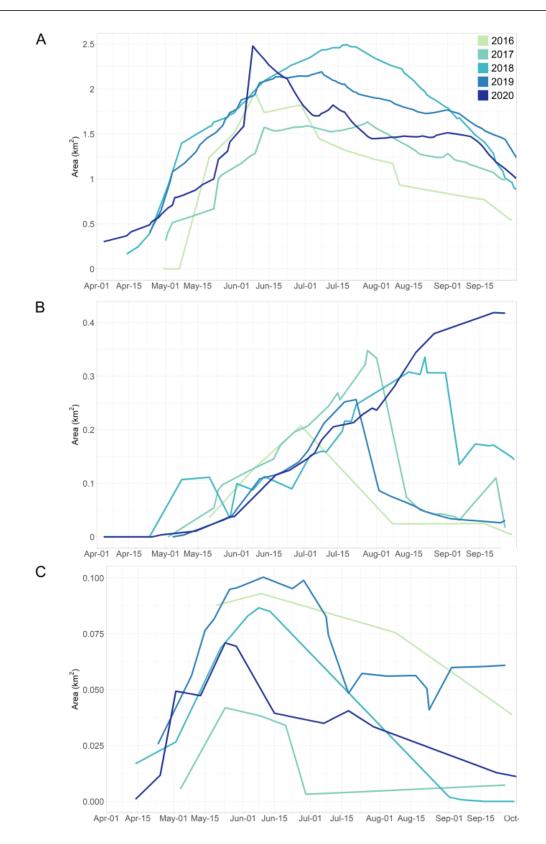


Figure S4. Seasonal evolution of the total area of the supraglacial lakes (**A**) and the two ice-dammed lakes Yermanendu Lake (**B**) and Liligo Lake (**C**) in km^2 from April to September for the years 2016 to 2020. Take care of the different scale of the y-axes.

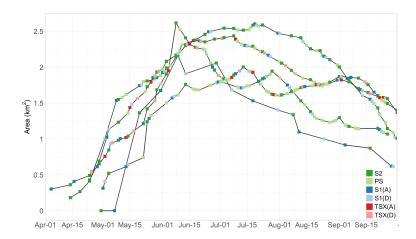


Figure S5. Seasonal evolution of the total supraglacial lake area from April to September for 2016 to 2020 and sensor specification used for the lake classification.