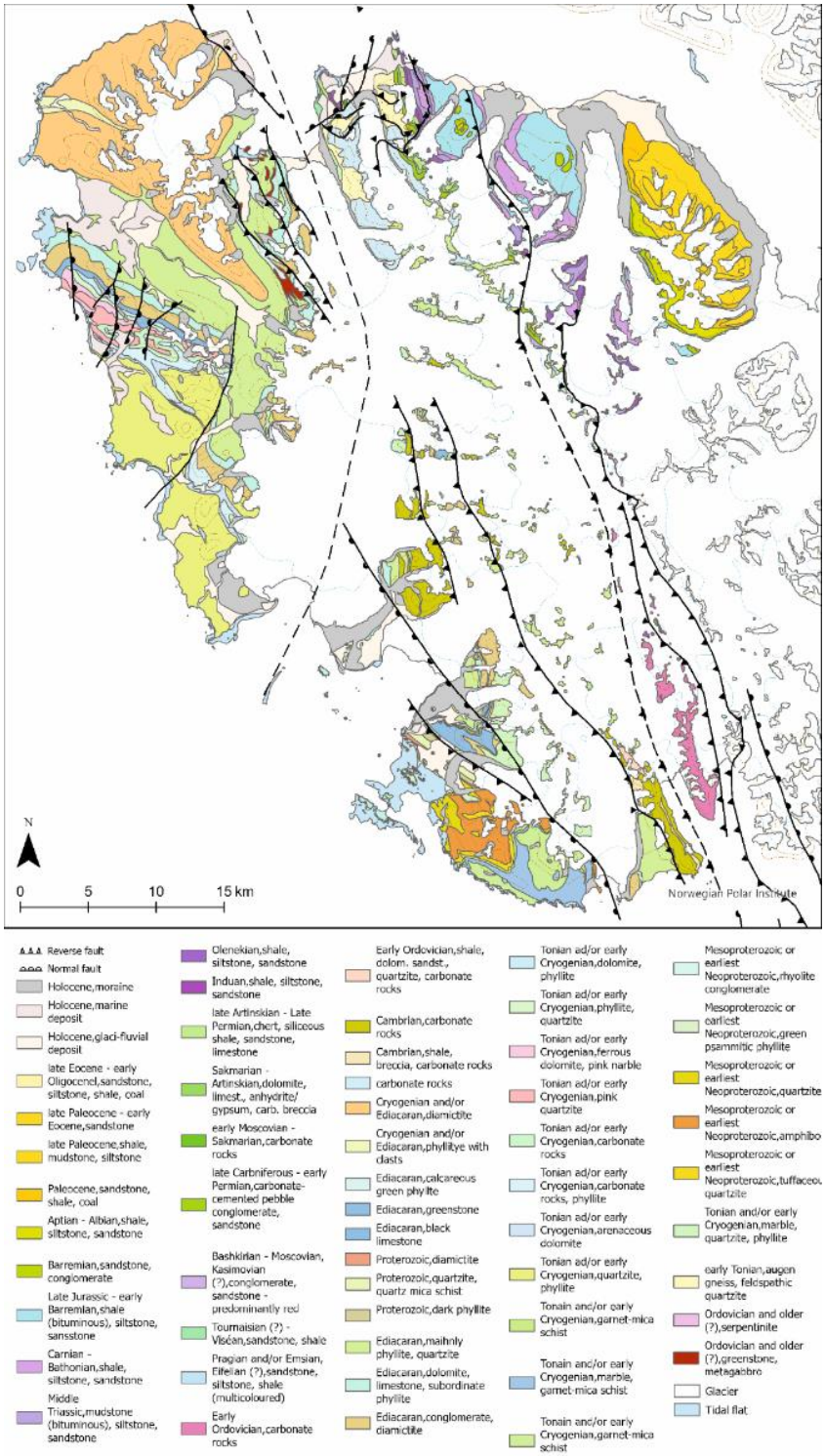
Supplementary material for: Wołoszyn A., Wieczorek I. & Kasprzak M. 2026
Small catchments: remote sensing approach for environmental research in the High Arctic. *Polar Research 45*. Correspondence: Aleksandra Wołoszyn, Department of Geoinformatics and Applied Computer Science, Faculty of Geology, Geophysics, and Environmental Protection, AGH University of Krakow, Al. Mickiewicza 30, Pawilon A-0, 30-059 Kraków, Poland. E-mail: awoloszyn@agh.edu.pl

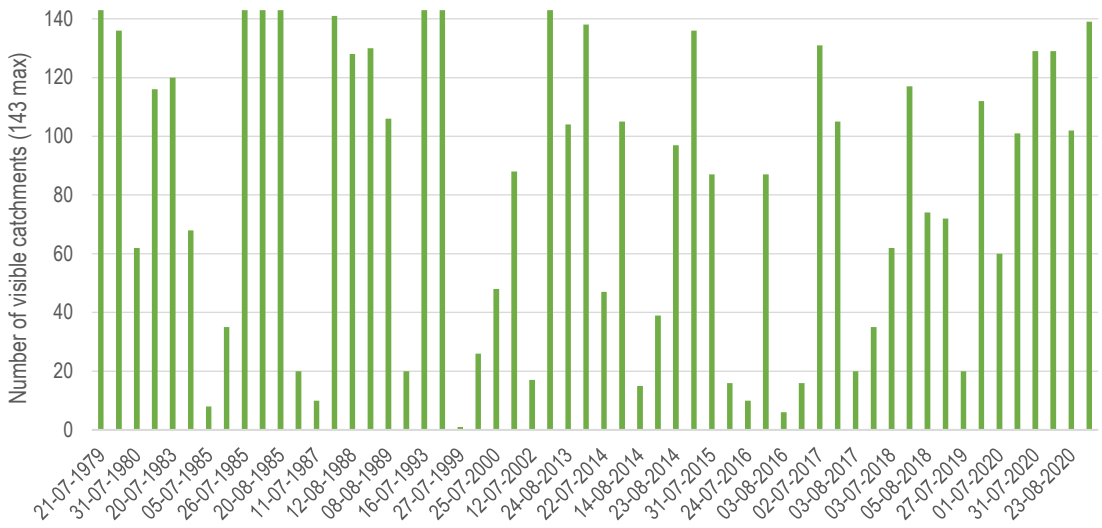


Supplementary Fig. S1. Geological map of WJL, adapted from a Norwegian Polar Institute data set and layout with modifications.

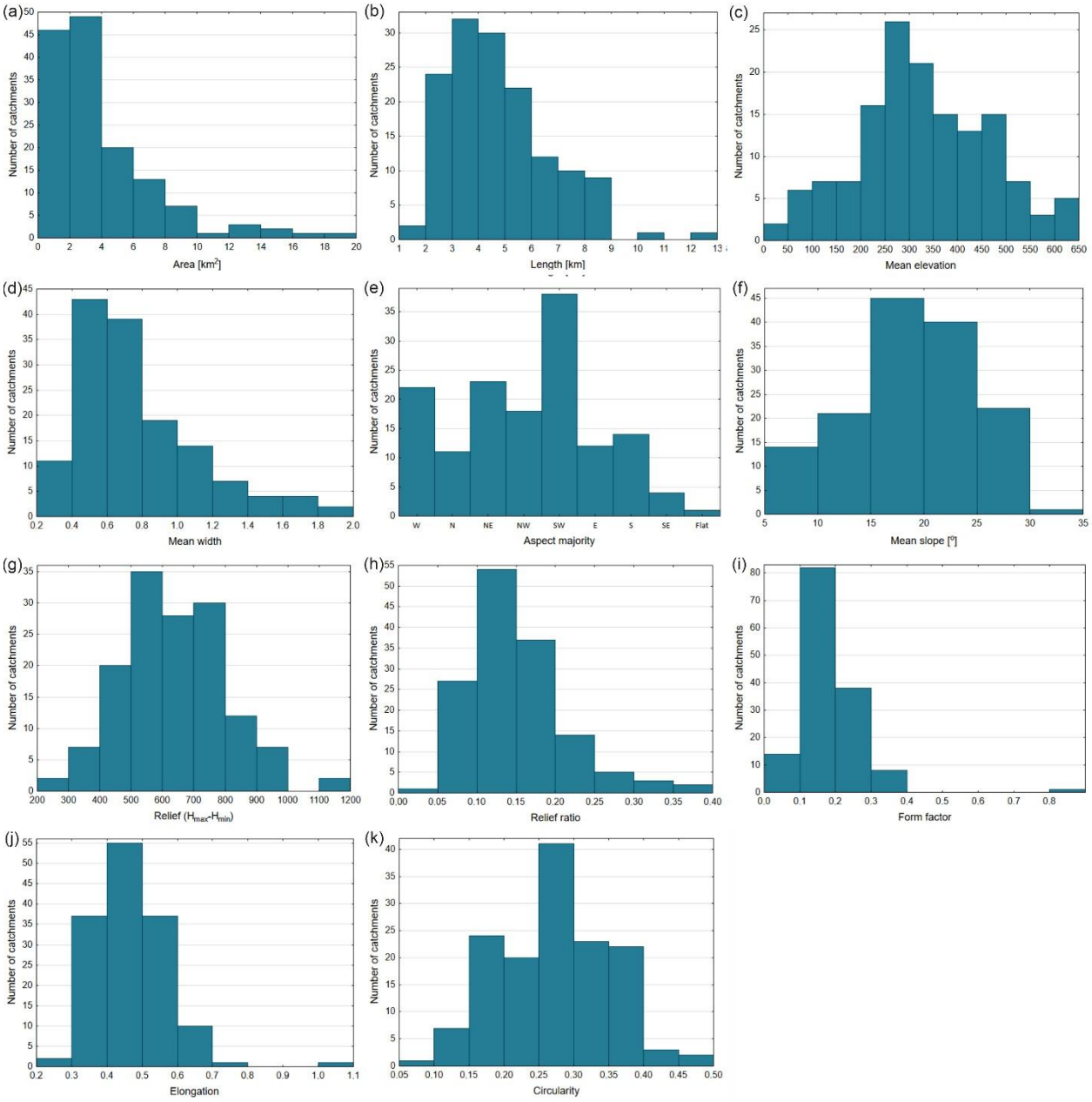
Supplementary Fig. S2. Examples of vegetation cover in WJL in late August 2022: (a) dense tundra carpet, (b) vegetation on a water flow path, (c) example of Salix polaris and (d) talus cones covered with vegetation.

Supplementary Fig. S3. Mountainous landscape of the western part of WJL seen from the

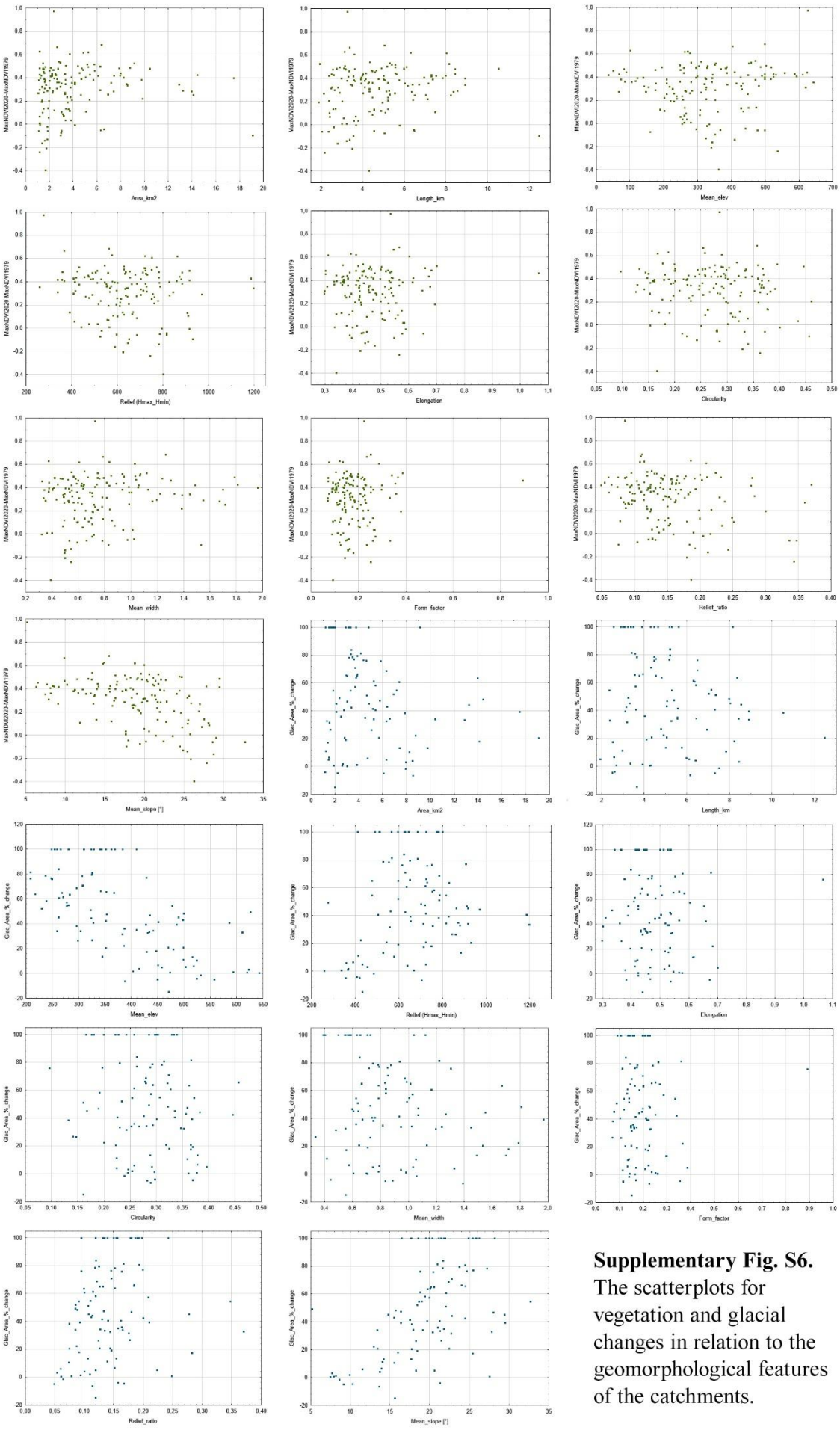
sea in July 2023.



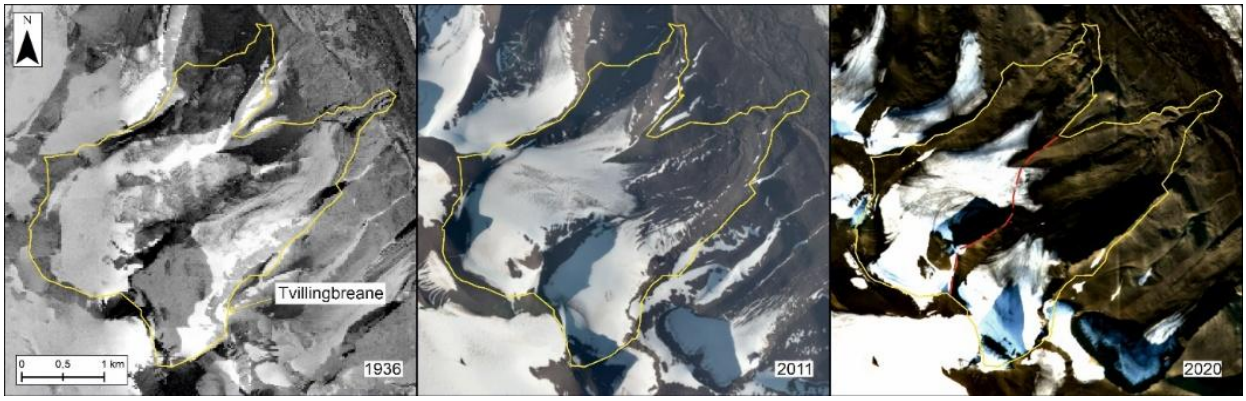
Supplementary Fig. S4. Number of visible SCs on satellite images for different dates.



Supplementary Fig. S5. Distribution of the morphometric features of the SCs studied. The morphometry results are based on 2-m ArcticDEM version 4.1 mosaic for WJL (Porter et al. 2023).



Supplementary Fig. S6. The scatterplots for vegetation and glacial changes in relation to the geomorphological features of the catchments.



Supplementary Fig. S7. Environmental evolution within an SC in the north-eastern part of WJL through time: 1936 (Geyman et al. 2022), 2011 (NPI 2014a) and 2020 (Sentinel Hub no date b).