

BIODIVERSITÄT DES OBERENGADINS (GRAUBÜNDEN, SCHWEIZ)
BIODIVERSITY OF THE UPPER ENGADINE (GRISONS, SWITZERLAND)

Vegetationskarte / Vegetation map: Samedan-St. Moritz-Bernina-Maloja 1:50 000

Gesamtleitung / Coordination: Prof. Dr. Conradin A. Burga, Geographisches Institut der Universität Zürich

Kartierung, Vegetationsaufnahmen und Erläuterungen / Mapping, vegetational survey and explanations:
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Kartographie und Layout / Cartography and layout: Martin Steinmann, GIUZ

Summary

The diversity of flowering plants and ferns

The mapped area includes a total of 210 plant relevés, containing 19 different plant communities. The plant diversity has been calculated using the Shannon index. The highest diversity of 264 and 230 plant species (mean Shannon index 2.40 and 2.64 respectively) show two grass communities (Blue Sesleria steppe and mat-grass pasture). In contrast, the lowest plant diversity shows the Cushion Sedge grassland with only 30 species. The average Shannon index for all the areas fluctuates between 1.17 and 2.88. There are three hot spots of high plant diversity within the Upper Engadine valley:

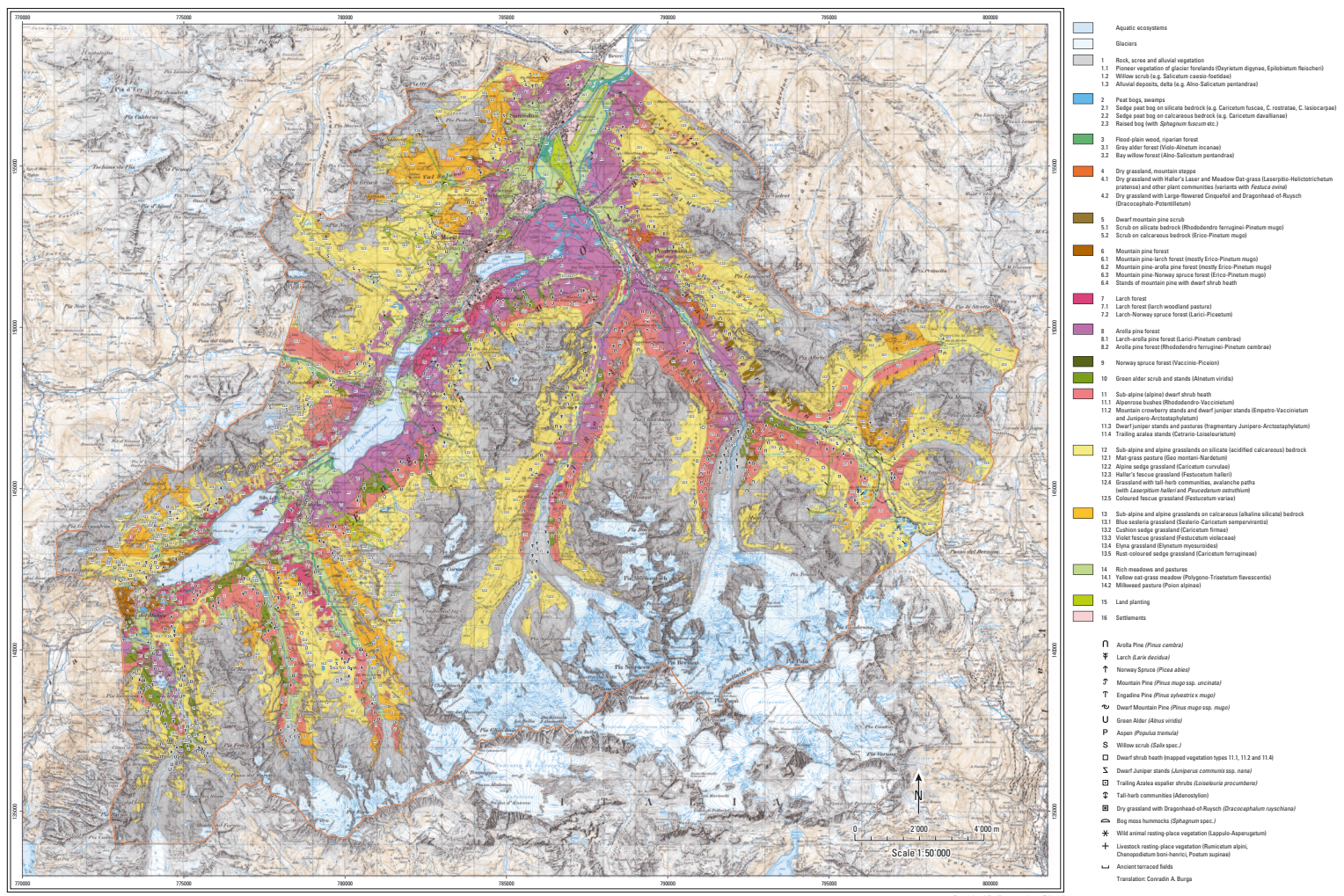
(1) the area of Grevasalvas, (2) the slope north of St. Moritz-Celerina (Cristolais, Trais Fluors), Munt da S. Murezzan and Val Fex, and (3) the area of Piz Alv-Val da Fain (in the region of the Bernina pass). The plant species inventory includes a total of 920 species, 119 of which belong to the Red List of Swiss flora. Nature conservation aspects are therefore an important topic in this area.

Vegetation map Samedan – St.Moritz – Bernina – Maloja

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