

Plant cover of vegetation types per biplot and soilplot

When using these data, please cite:

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Introduction

This data sheet contains all observation of functional types per biplot and soil plot. We divided species and plot properties into the following categories: graminoid, forb, bryophyte, lichen, litter, rock, bare ground, woody, cushion and biocrust. Additionally, the species richness and Shannon diversity is given for every biplot.

Table 1. General information

project_name	ETH+ Arctic Greening
creation_date	2024-11-12
last_modification_date	2025-04-12
sampling_period	2022-07-09 – 2023-08-09
creator	Jana Rüthers
contact_1	jana.rüthers@usys.ethz.ch
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number_samples	142
processing_status	complete
upload_status	complete

Table 2. Variable overview

variable	explanation	unit
plot_id	plot_id of a respective observation	-
graminoid_pct	Percentage cover of graminoids	%
forb_pct	Percentage cover of forbs	%
bryophyte_pct	Percentage cover of bryophytes	%
lichen_pct	Percentage cover of lichen	%
rock_pct	Percentage cover of rocks	%
bare_ground_pct	Percentage cover of bare ground	%
woody_pct	Percentage cover of woody (dwarf shrubs)	%
cushion_pct	Percentage cover of cushion plants	%
biocrust_pct	Percentage cover of biocrust	%
species_richness	Number of species present in plot	-
shannon_diversity	Shannon diversity index in plot	-

Methods

Sample processing

All groups were directly measured in the field, no later processing was needed.

Sample analysis

All plant species and functional groups were directly identified in the field.