Table 1: Summary statistics of BDM moss and plant surveys.

HS	N_sites	N_surveys	moos_SR	plants_SR	moss_tot	plants_tot
alpine	283	988	15.50	28.31	373	611
colline	123	421	8.43	22.43	224	618
montane	531	1838	10.52	24.48	369	850
subalpine	247	873	17.02	34.20	374	754

Contents

1 Methods

1.1 Plant and moss data

- BDM beschreiben
- Auswahl der Daten beschreiben:
  - Nur Sites mit mindestens 3 Moos und Pflanzenarten
- Temperaturkennzahlen beschreiben

1.2 Statistical methods

2 Results

- Except for forests at lower elevations, the average T value of mosses was slightly larger than for plants (Fig. 1).
- Termophilisation tends to be larger in mosses than in plants, particularly in the open habitats in the subalpine and alpine region (Fig. 3).

```
##
## Call:
## lm(formula = Diff ~ 1, data = d)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -3.5546 -0.1066 -0.0146  0.1054  2.4525
##
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.01459    0.01119   1.303    0.193
##
## Residual standard error: 0.3619 on 1044 degrees of freedom
##   (139 observations deleted due to missingness)
```

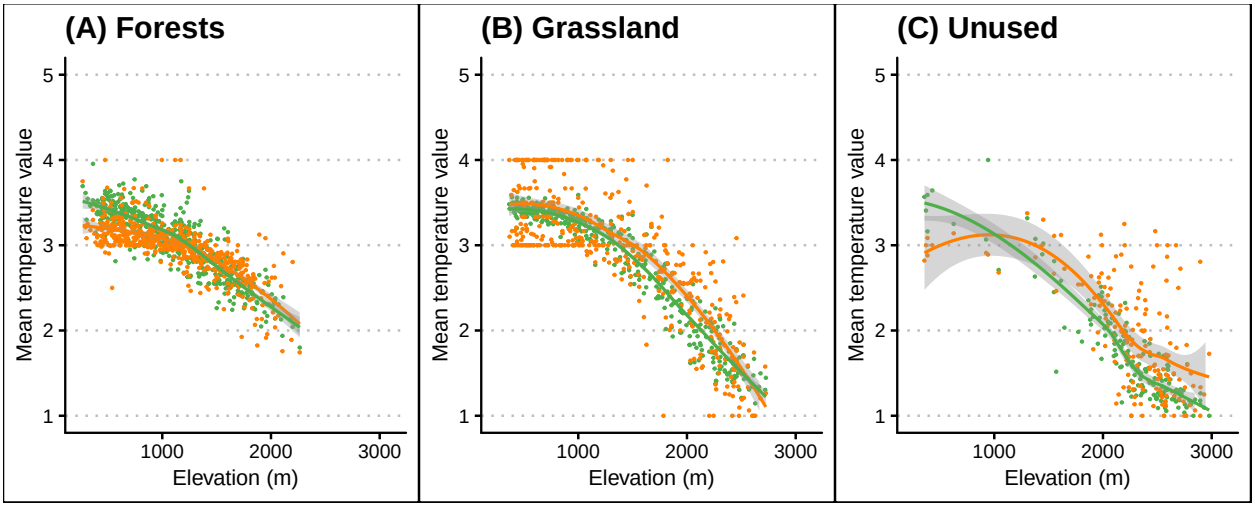


Figure 1: Mean temperature values along the elevational gradient for plots that were (A) foreststst, (B) grassland and (C) unuesed open areas acording to the first survey to each plot. Given are mean temperature values of recorded plants (green) and mosses (orange).

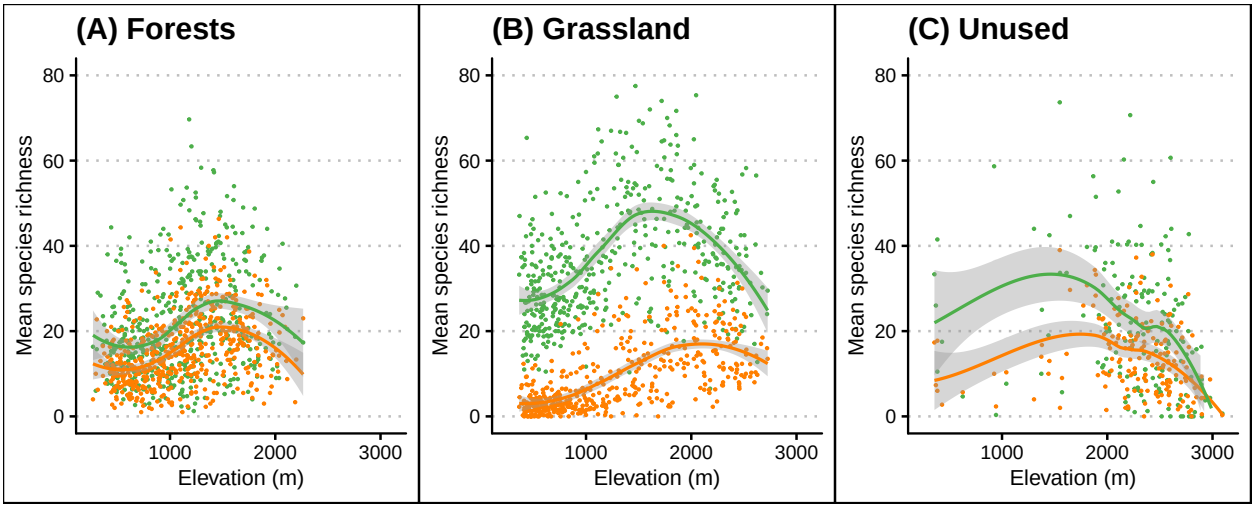


Figure 2: Species richness along the elevational gradient for plots that were (A) foreststst, (B) grassland and (C) unuesed open areas acording to the first survey to each plot. Given are the number of recorded plant (green) and moss (orange) species per plot.

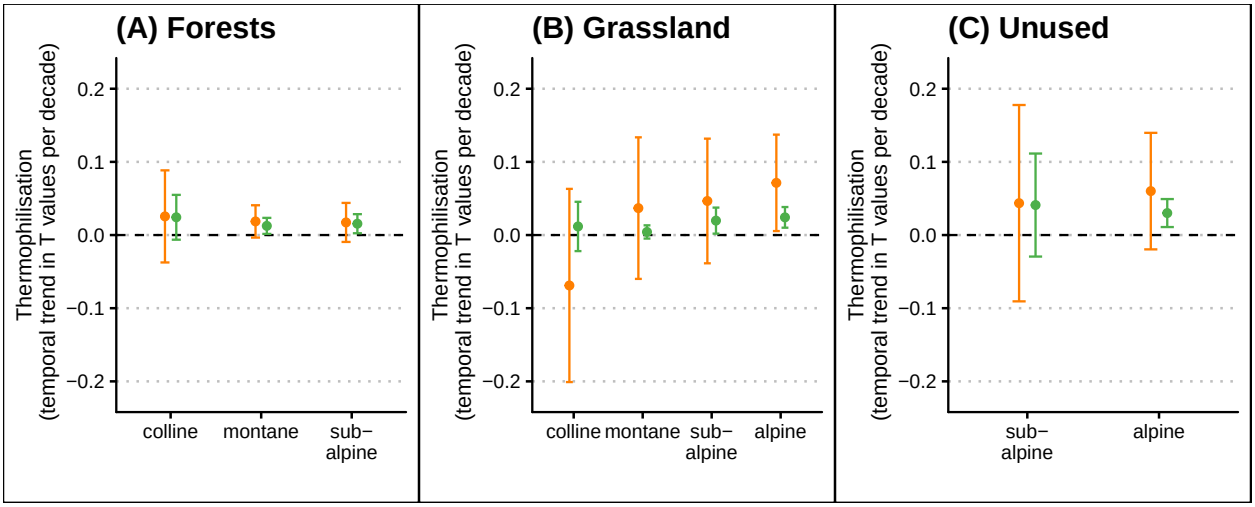


Figure 3: Termophilisation between 2001 and 2018 of mosses (orange) and plants (green) for plots that were (A) foreststst, (B) grassland and (C) unuesed open areas acording to the first survey to each plot.

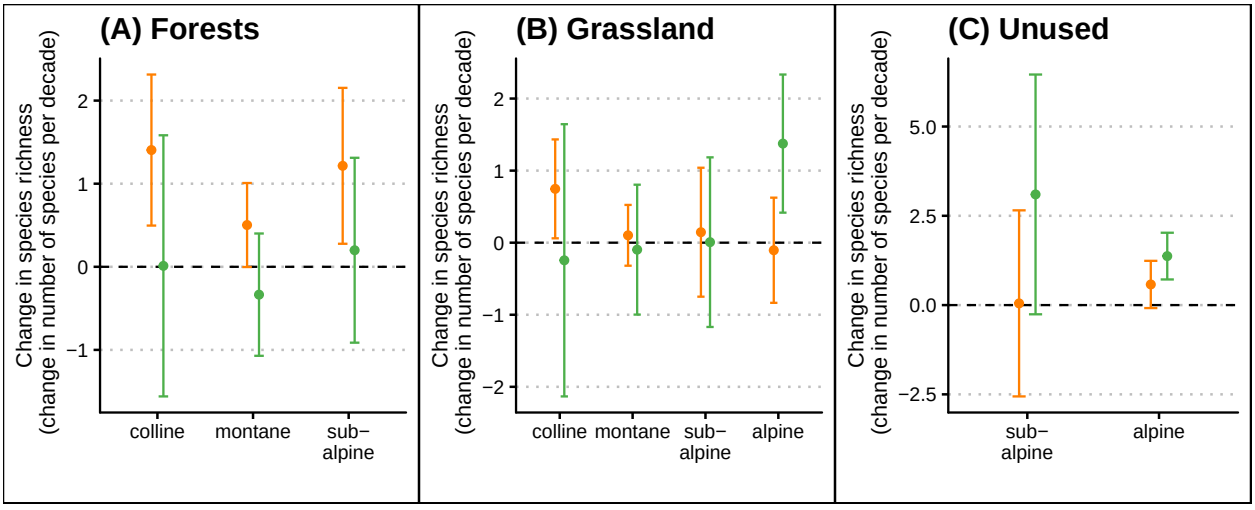
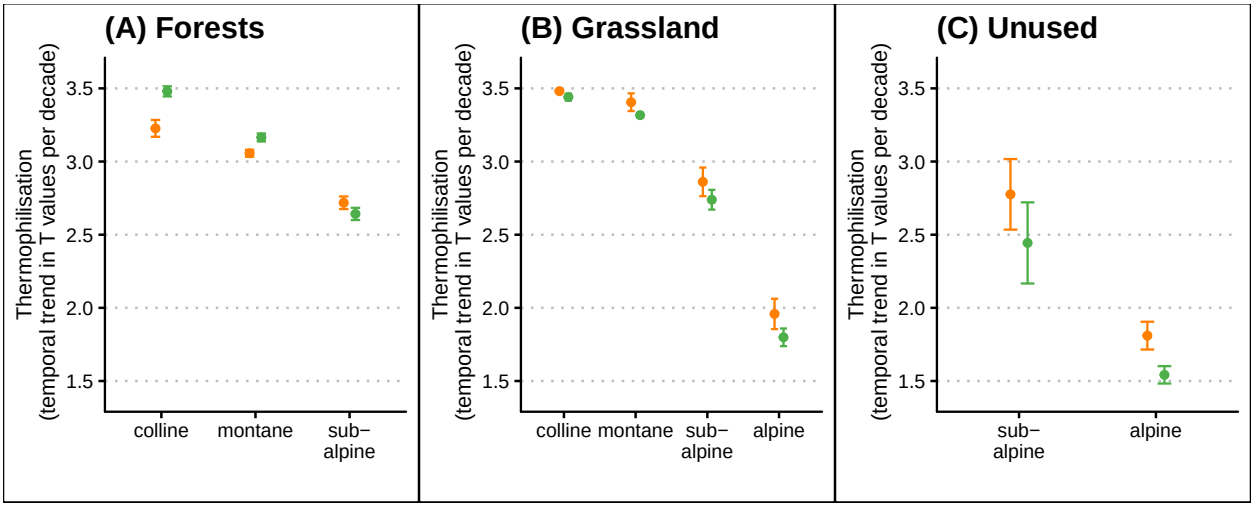


Figure 4: Temporal change in species richness between 2001 and 2018 of mosses (orange) and plants (green) for plots that were (A) foreststst, (B) grassland and (C) unuesed open areas acording to the first survey to each plot.


(A) Forests
(B) Grassland
(C) Unused
Thermophilisation
(temporal trend in T values per decade)
3.5
3.0
2.5
2.0
1.5
colline
montane
sub−
alpine
alpine