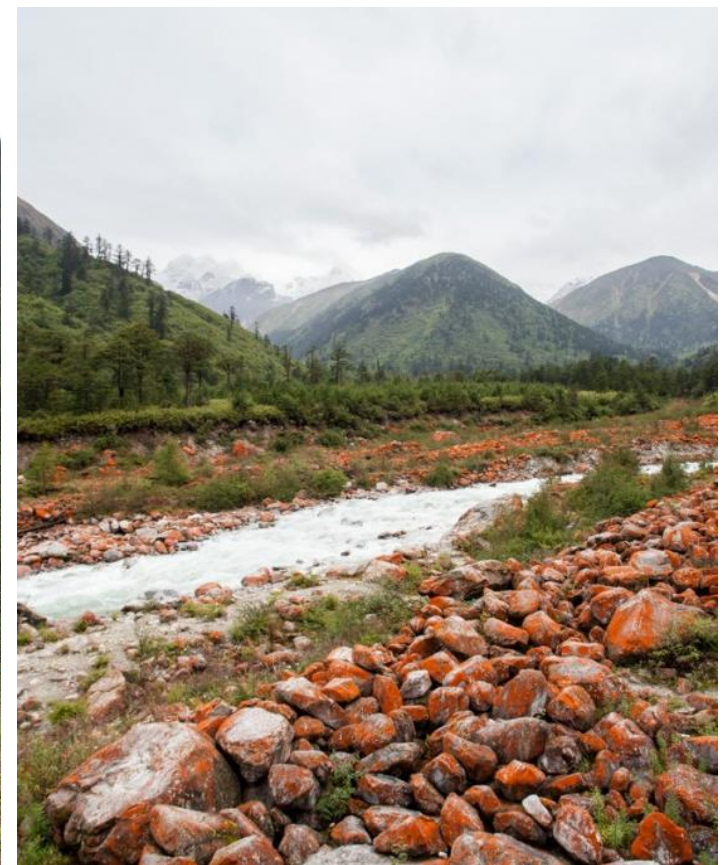


My PFTC story

Intraspecific trait variability is important!

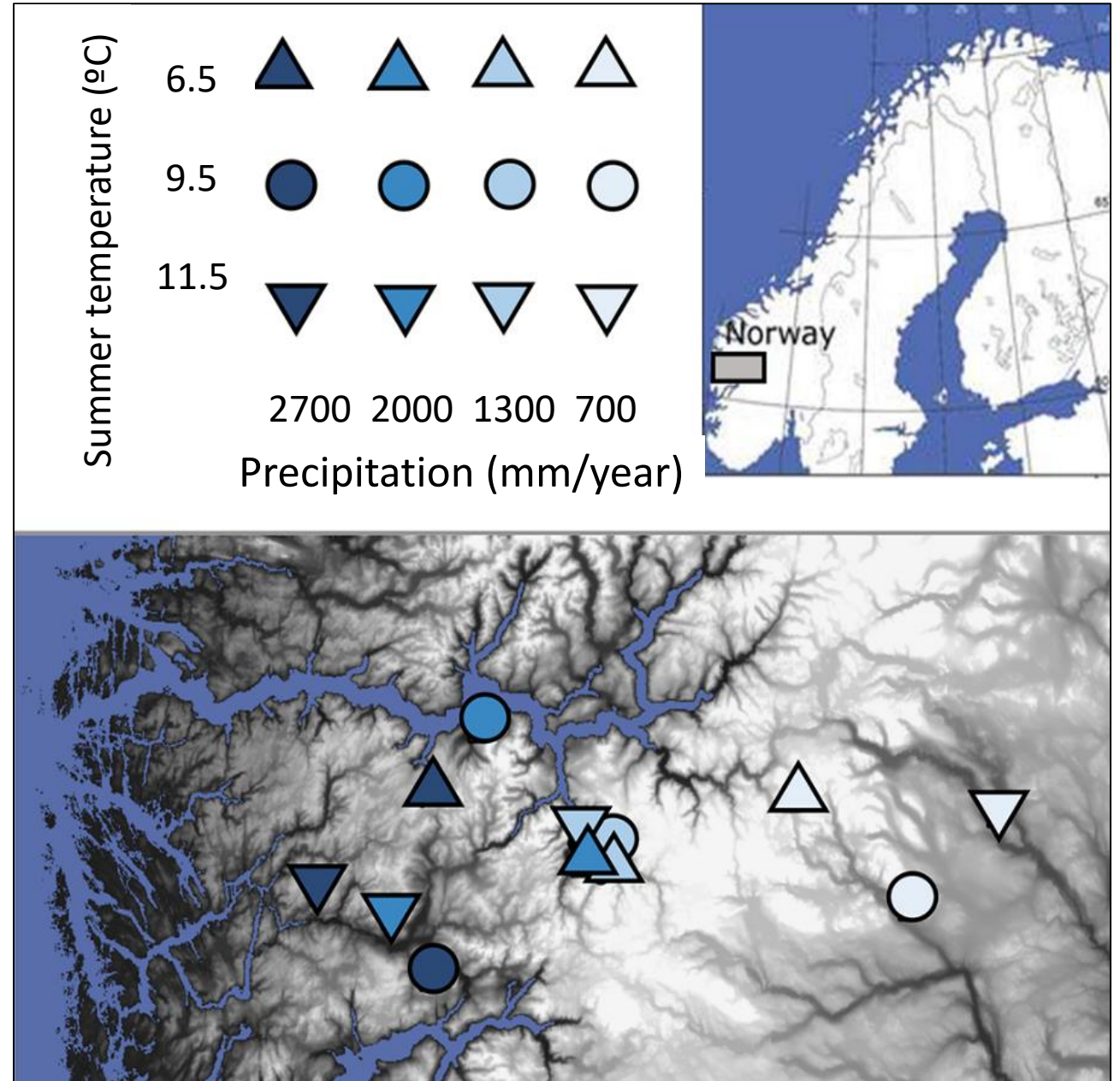
Ragnhild Gya
PhD candidate
University of Bergen
 @RagnhildGya





Plant functional traits course 1

PFTC X - Norway



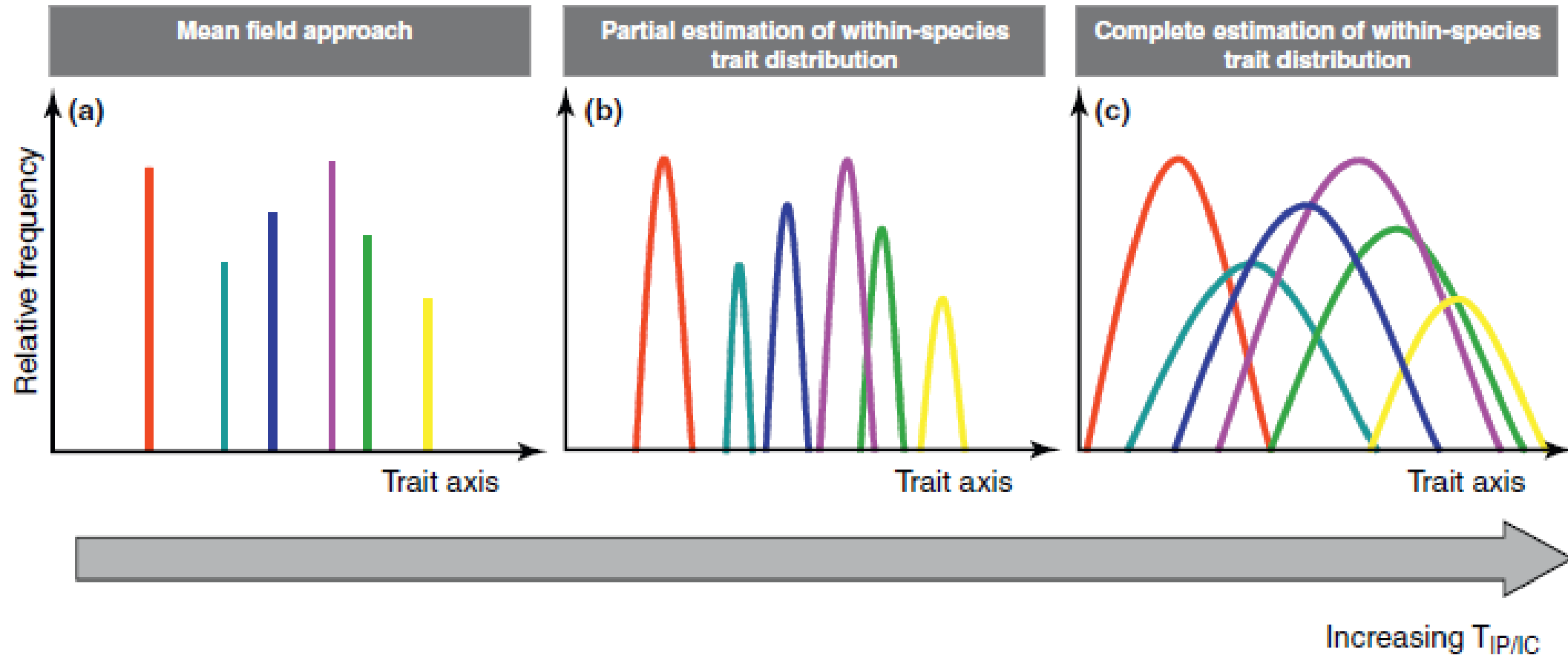
Expectations

- Temperature?
- Precipitation?
- Variation?



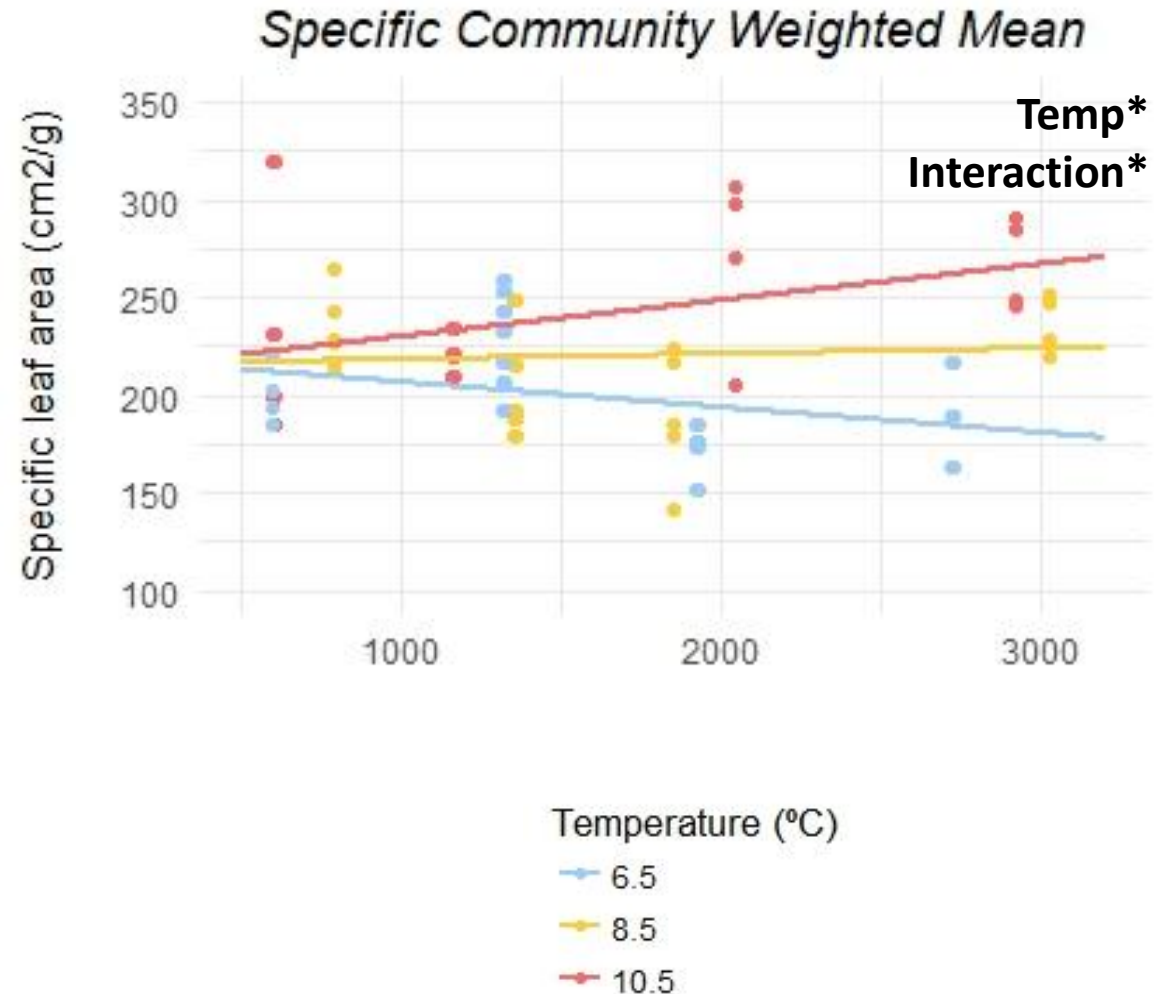
Intraspecific variability

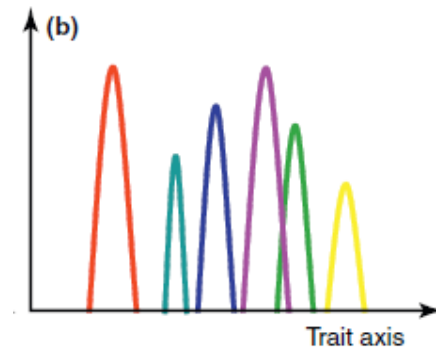
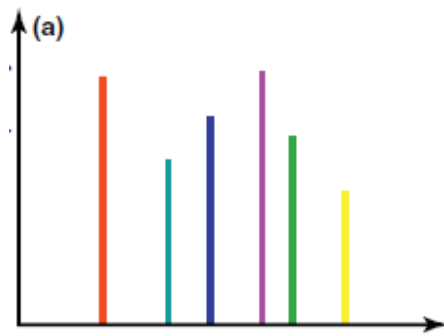
Violle et al. (2012) *Trends in ecology & evolution*



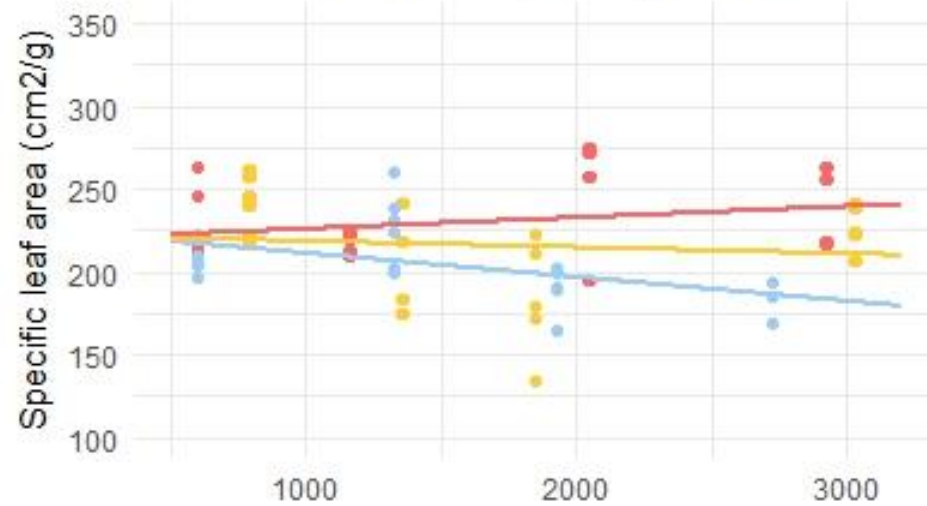
Trends along the gradients

- Community weighted means
- SLA and height increase with increasing temperature
- Interaction with precipitation

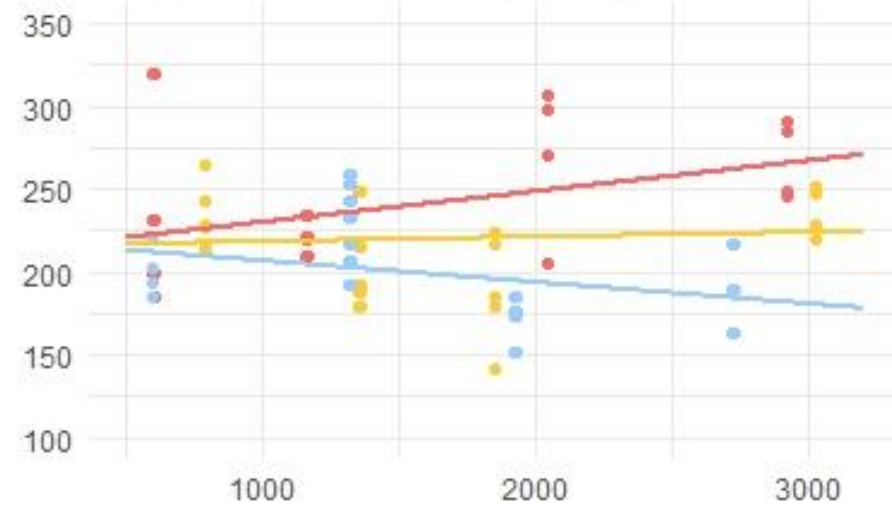




Fixed Community Weighted Mean



Specific Community Weighted Mean



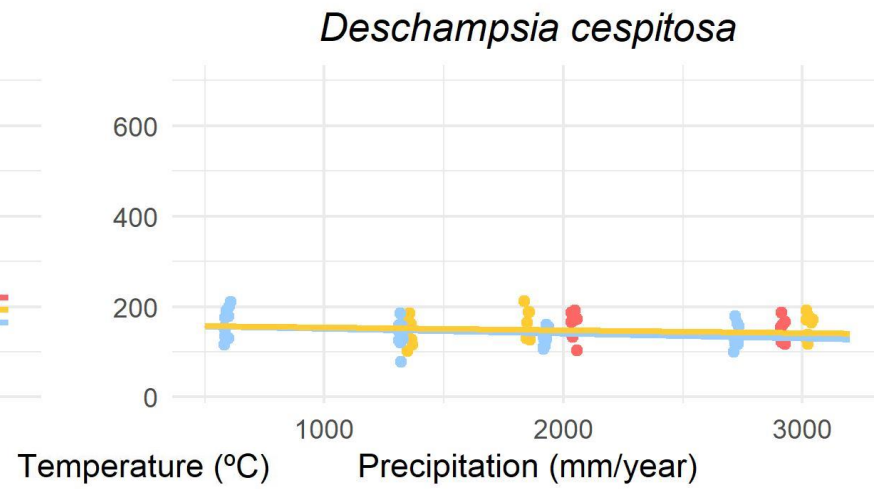
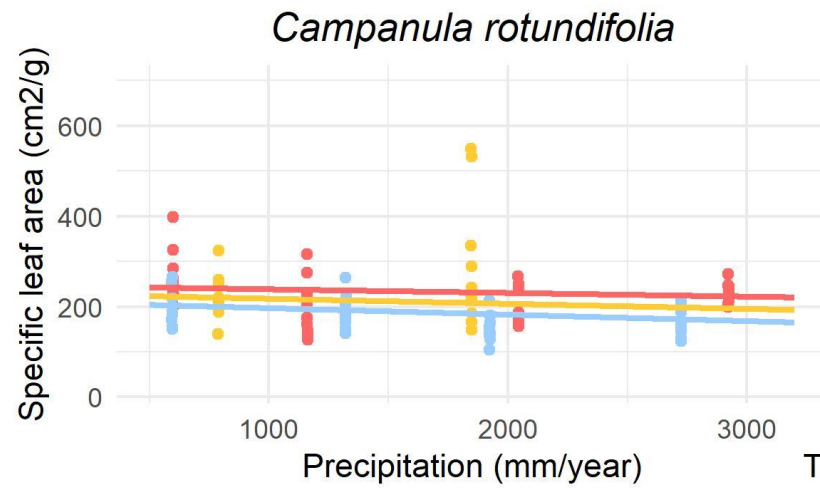
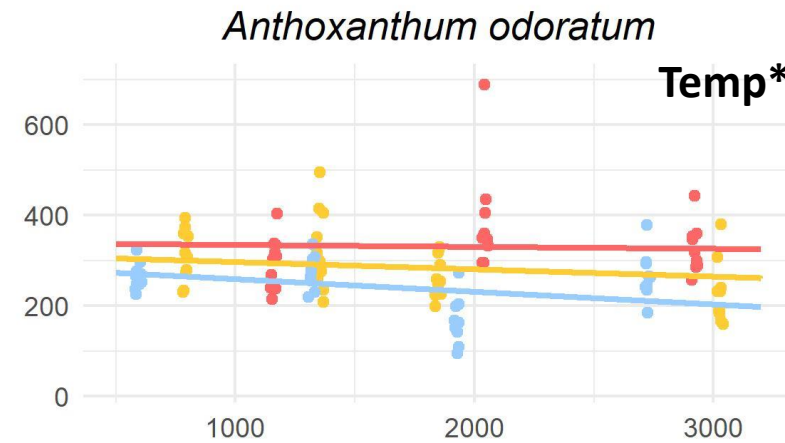
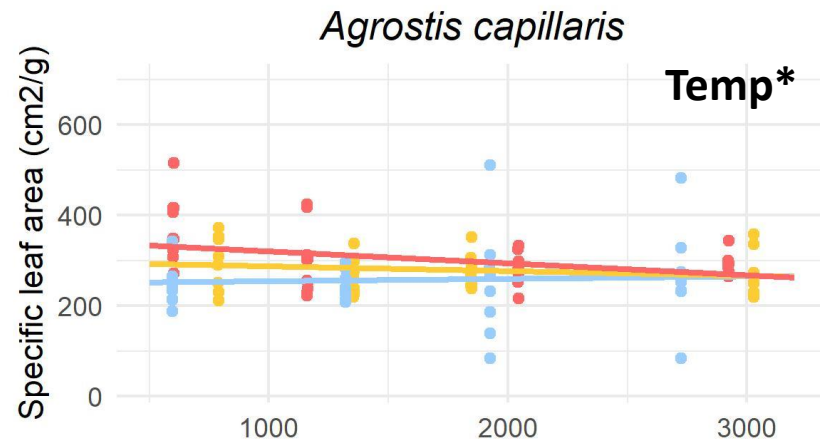
Temperature (°C)

6.5

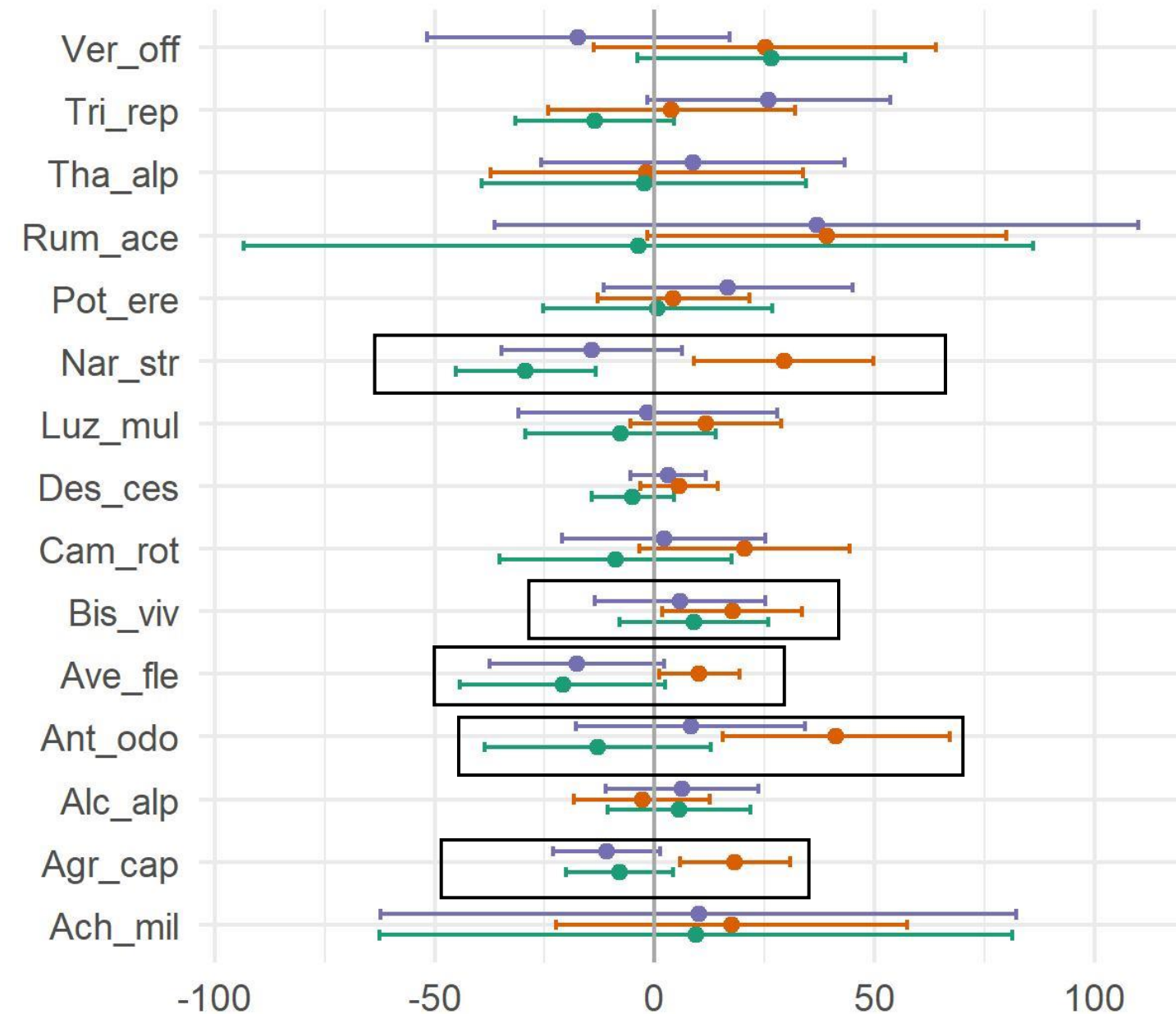
8.5

10.5

Species are doing different things



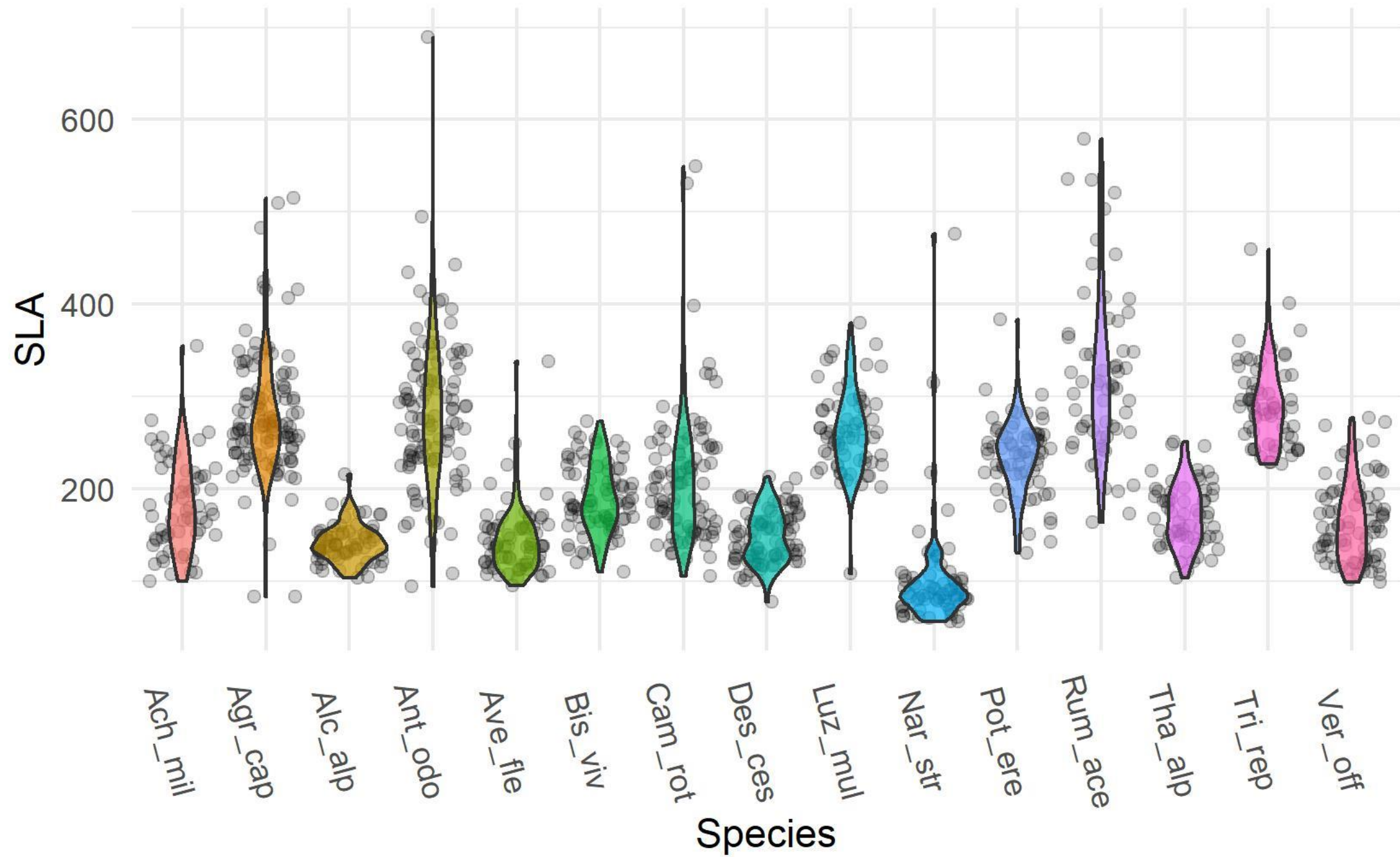
6.5
8.5
10.5

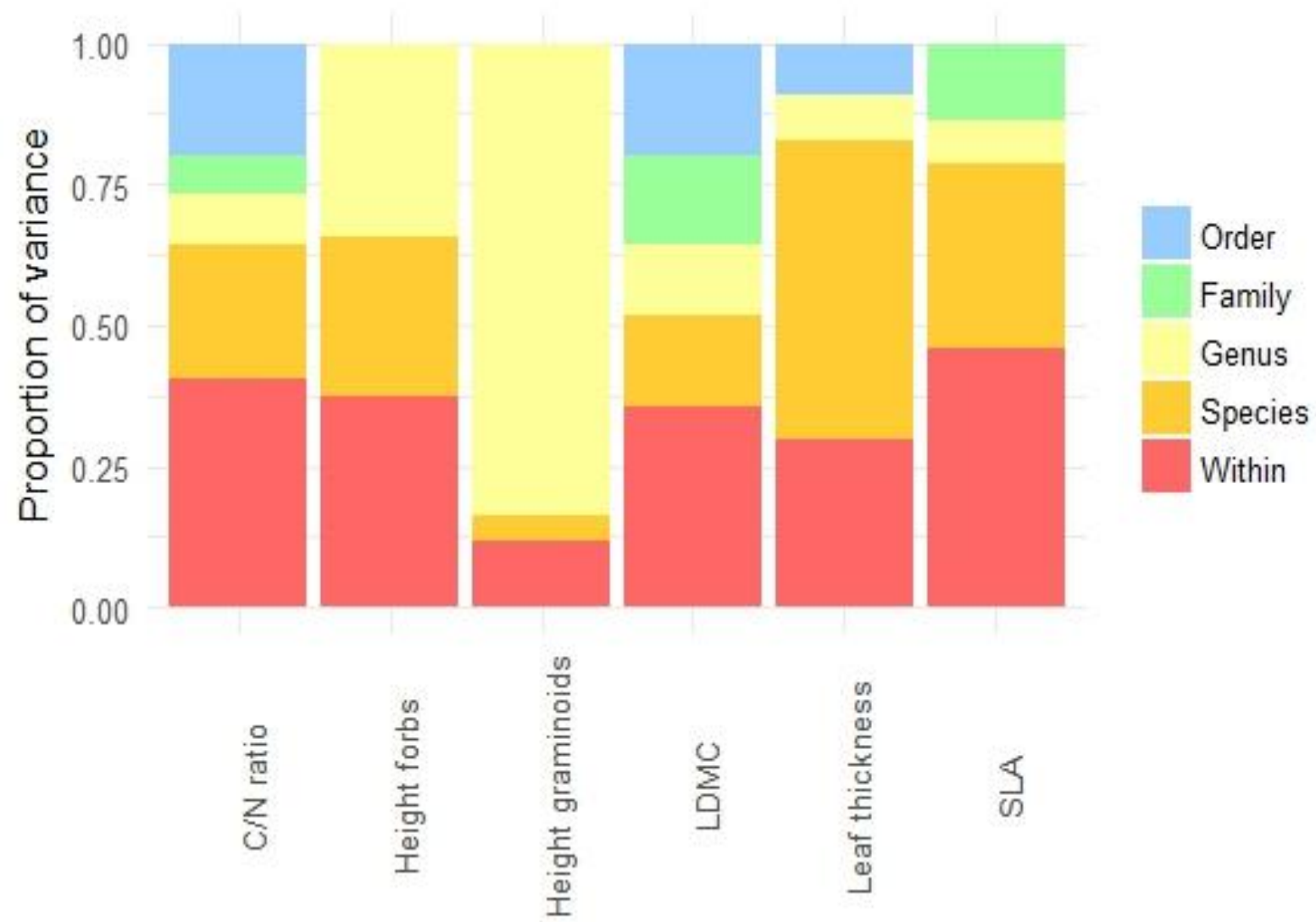


13 of 15 show same trend as the community with temperature.

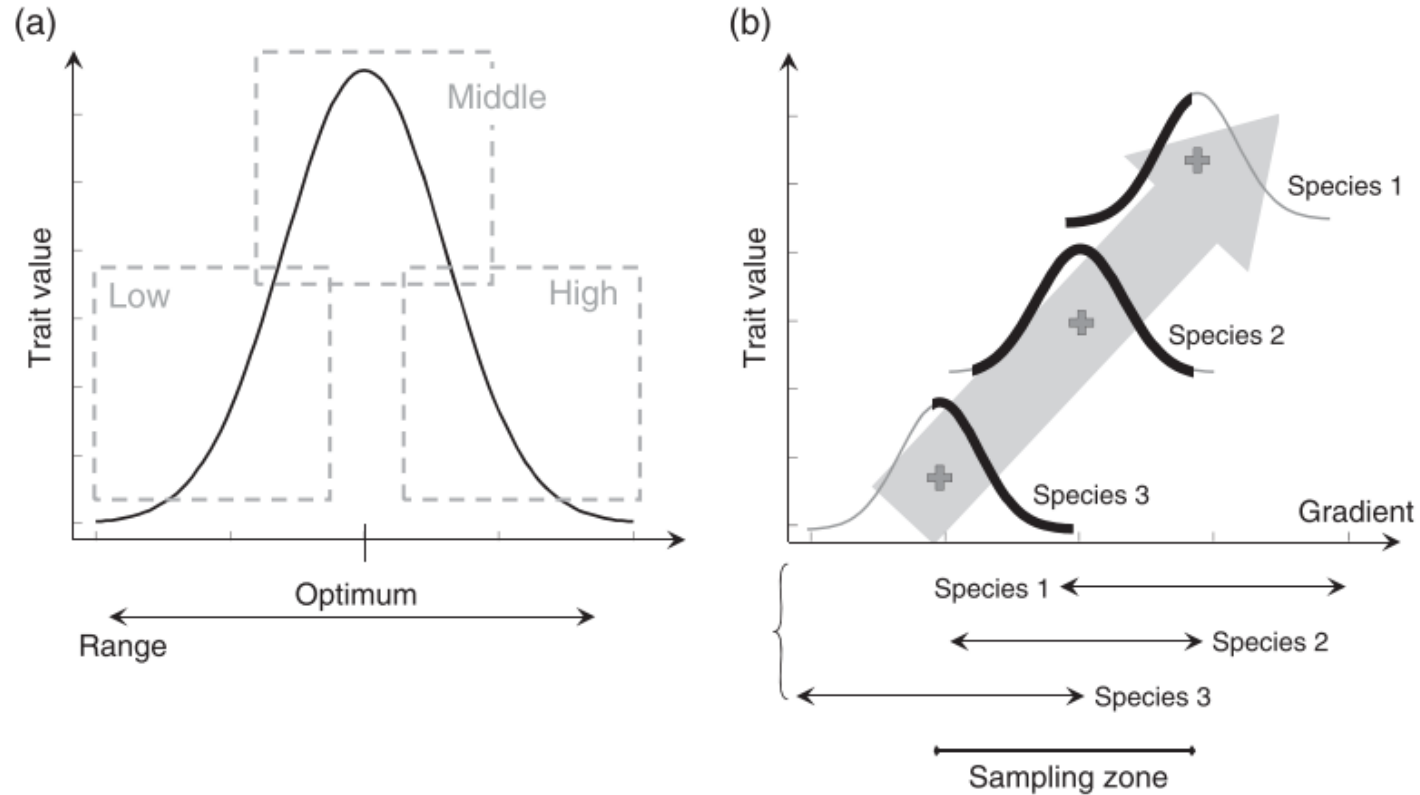
- Precipitation
- Temperature
- Interaction

Change in SLA per unit precipitation and/or temperature



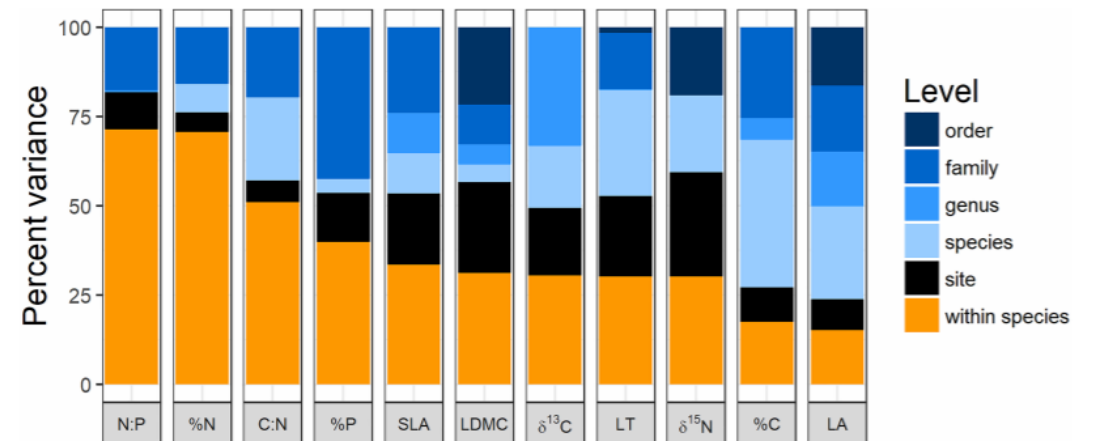


What about precipitation?



Intraspecific Trait Variation and Phenotypic Plasticity Mediate Alpine Plant Species Response to Climate Change

Jonathan J. Henn^{1*}, Vanessa Buzzard², Brian J. Enquist², Aud H. Halbritter^{3,4}, Kari Klanderud⁵, Brian S. Maitner², Sean T. Michaletz^{6,7}, Christine Pötsch³, Lorah Seltzer², Richard J. Telford^{3,4}, Yan Yang⁸, Li Zhang⁸ and Vigdis Vandvik^{3,4}



PFTC 5 – Continue working on this cool topic 😎

- Within individual trait variation

