

Workshop - Plant functional traits and experimental warming

Tundra trait species gaps

If anyone is interested in joining this effort, please get in touch with Kata, Anne B., etc. There is a list of tundra species that don't have traits to improve gap filling data.

Experimental warming influences on traits

Contribute to the control versus OTC trait data!



As of 2019! (not updated)

18 sites in 10 regions

46 species

*Traits: Height, Leaf area, SLA, LDMC
[Leaf nitrogen, Leaf carbon, Leaf delta
15N, Leaf delta 13C]*

Here is the protocol:

Add link to the protocol

There is a postdoc at Gothenburg working with Anne who will be leading some future trait analyses - traits from different species and sites inside and outside of the OTCs.

Let's come together to do this next synthesis!

Notes for Kata:

Look at different species and are the ones that are changing the ones with more extreme or more average decomposability. - Christian

In my own words;) Comment Christian: To interpret the community pattern, it would be nice to

break the analysis down to individual species. Maybe you have an increase of a highly decomposable species and of a low decomposable species and the overall effect is zero. Or you have an increase of a species that is in a middle range of decomposability and the community effect is also zero.

This analysis is 'decomposability' not 'decomposition'. - Anne

General discussion:

Have you thought about diversity influences on decomposition? - Chelsea

Litter smothering could influence interactions between litter, decomposition and plant composition. - Zoe

Can we synthesize whether within-species variation in response to ITEX warming [plasticity (or microevolution but probably it's plasticity) in traits] is in general the SAME direction as species turnover changes (i.e. in a site where the 'winners' are species with high SLA also a site where individual species have higher SLA in the ITEX chambers). Evolutionary theory people talk about this as countergradient variation (example below; not my paper), but basically you want to see whether the slopes differ for within-species response to a treatment (like warming) vs CWM compositional response. The idea is that the community as a whole tells you something on what the "right" way to change in response to the plastically.

