

Task 1.4.4

*Assessment of N dynamics through litter
production and decomposition*

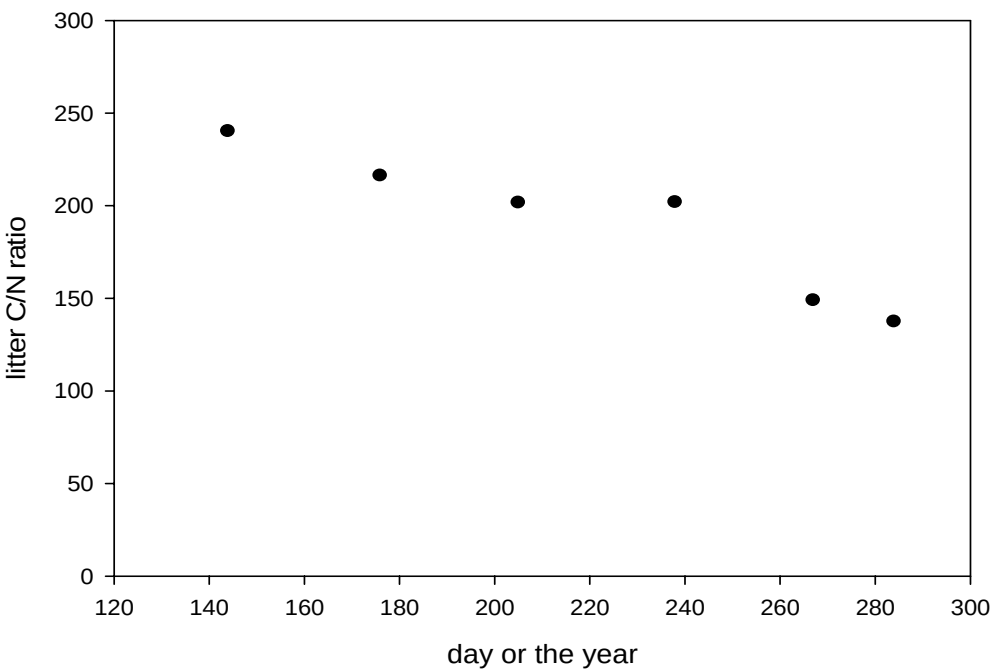
Miguel Portillo Estrada
Ülo Niinemets

Litter analysis

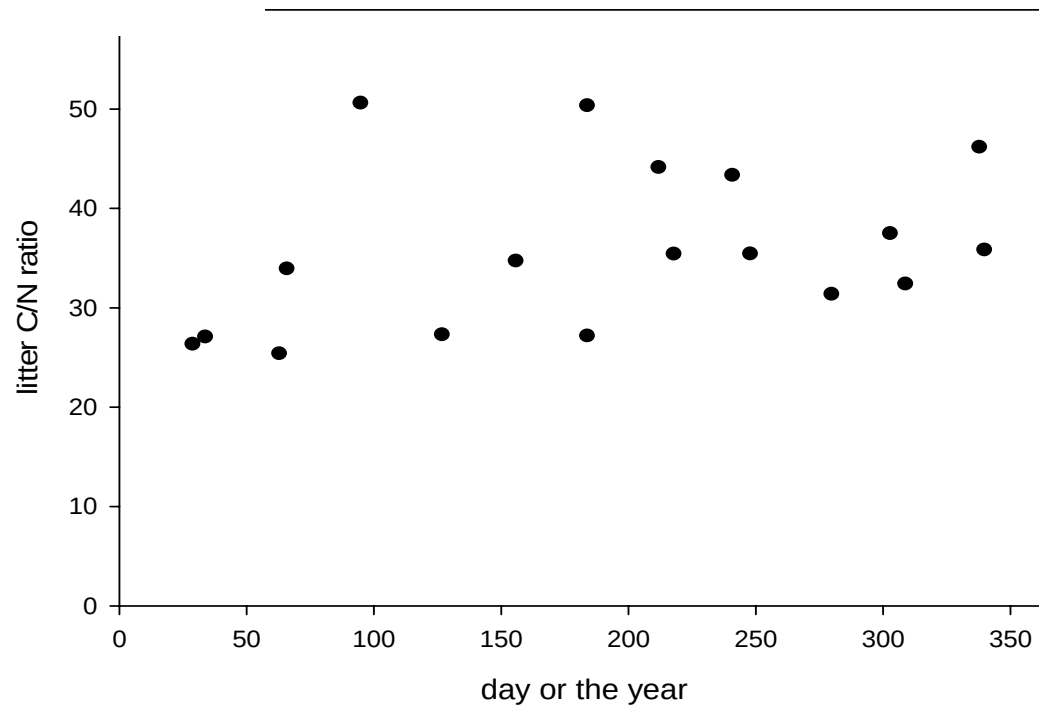
- For individual sites- seasonal variations of
 - N % , C%, C/N ratio
- All sites together
 - rainfall, global radiation, temperature vs. litter C, N, C/N
- Note: Litter references to all litter produced and collected, including leaf, twigs, bark, cones... Litter was sorted. Each fraction was analyzed separately. Total nitrogen and carbon content of oven-dried samples were determined by dry combustion method on a varioMAX CNS elemental analyzer (ELEMENTAR, Germany). Afterwards, results of each fraction of litter have been pondered to calculate the concentrations in the whole litter for each sampling (monthly).

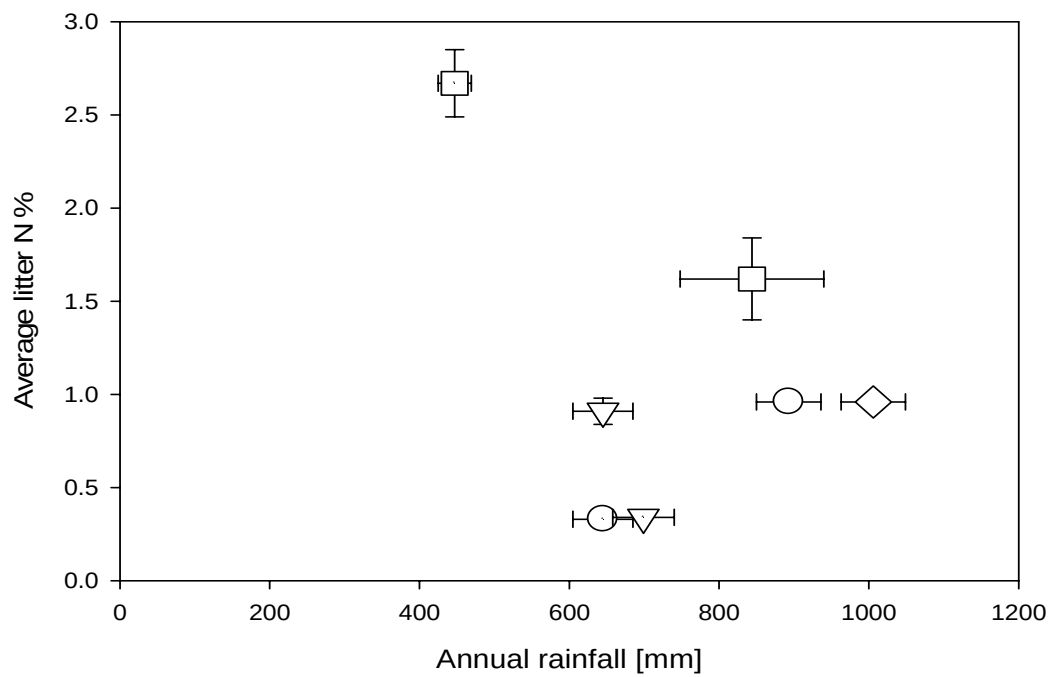
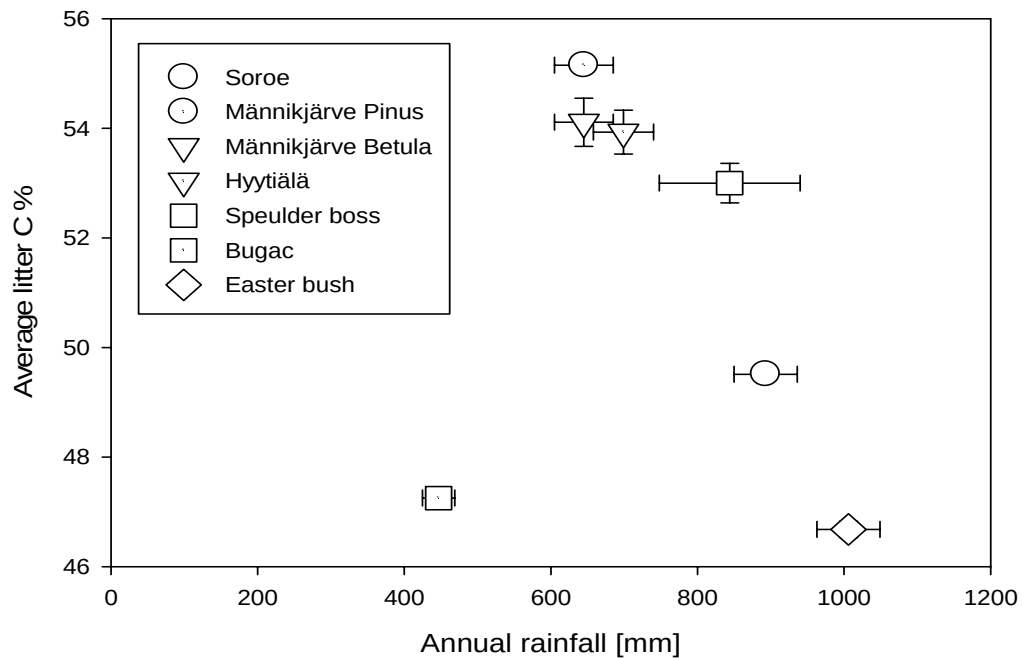
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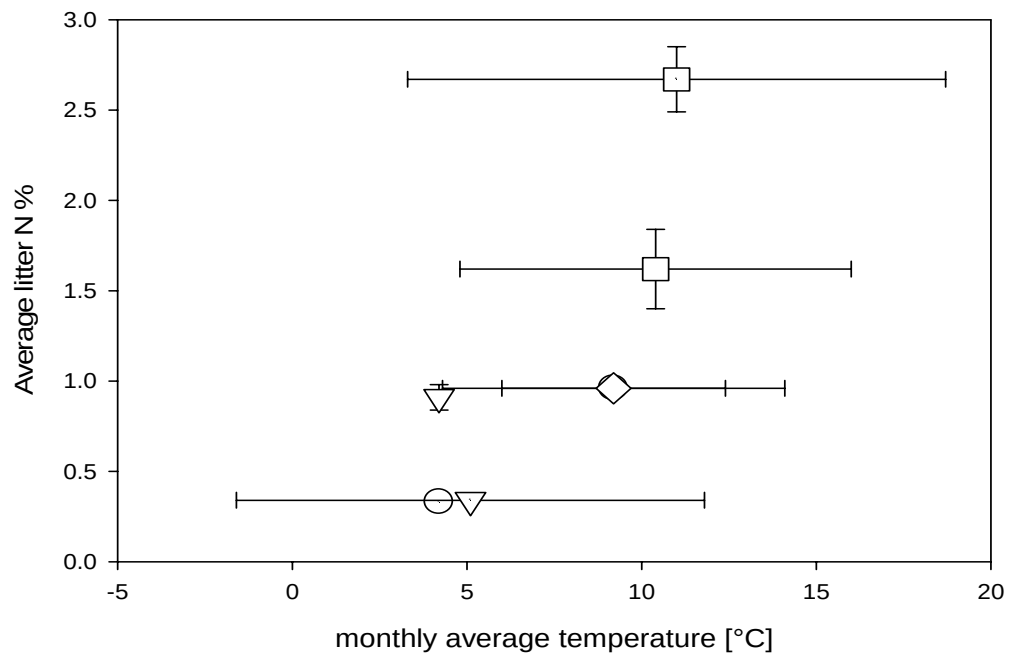
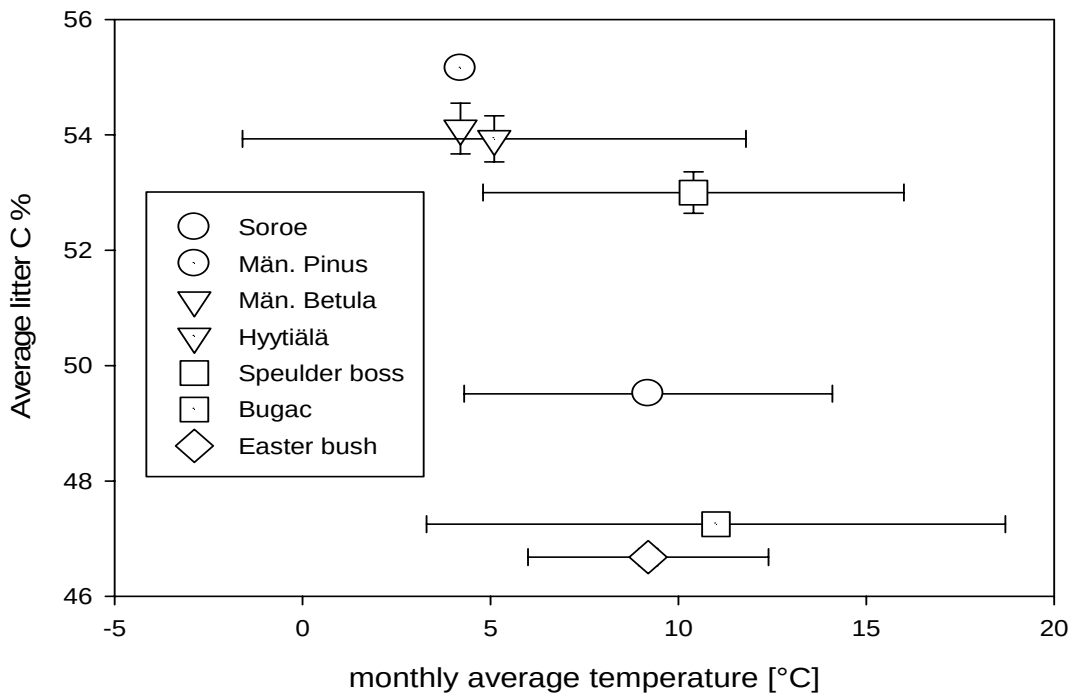
Hyytiälä



Speulder boss







Litterbag experiment?

Summary

- C/N ratio is much greater in clean litter samples than those polluted by N
- Litter from arid Bugac has smaller %C and larger %N compared to samples from wetter sites
- Temperature (regional) does not influence litter C and N