SnoEco: High Arctic ecosystem responses to changes in snow cover



-a study at the plot and landscape scale

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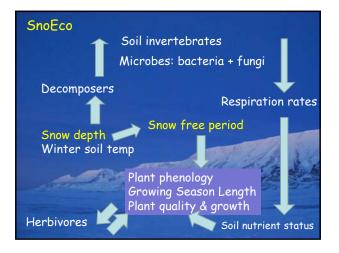


..is a very important determinator of start of growing season.

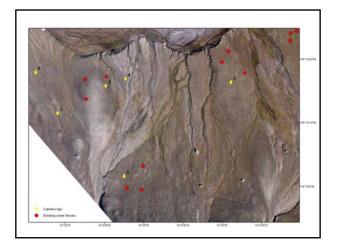


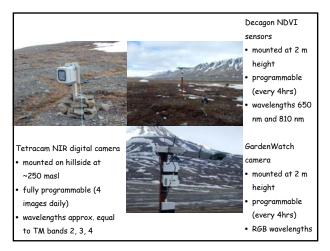
=> How does winter snow depth, timing of snow melt, winter/ summer temperature and moisture affect plant growth and ecosystem processes ?

=> By manipulating snow cover and observing on the landscape scale, we can start to investigate these relationships.

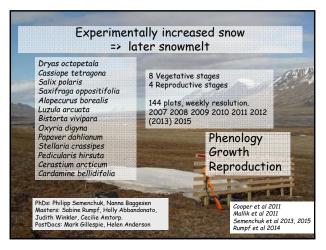




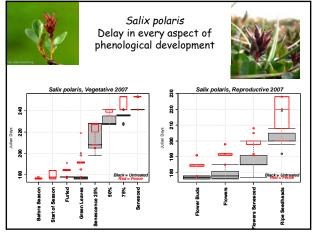


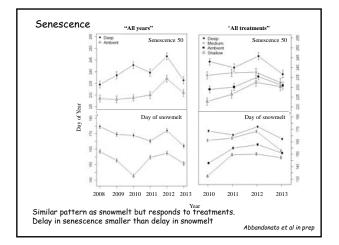


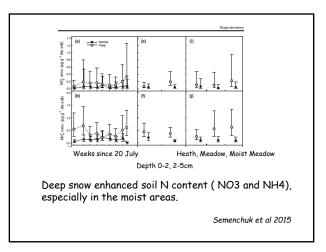


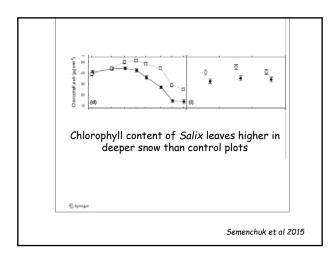


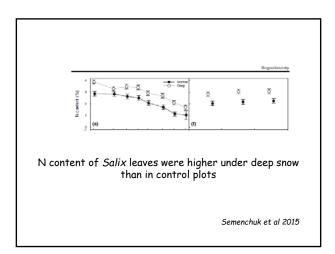


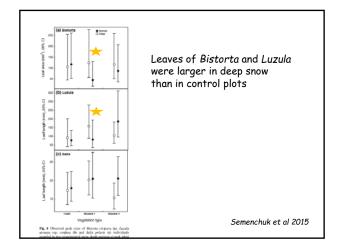


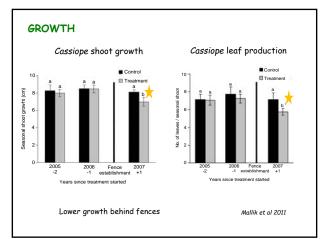


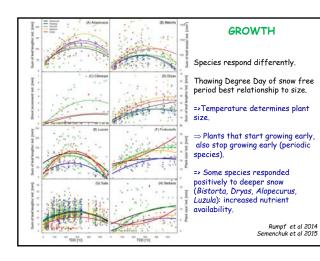


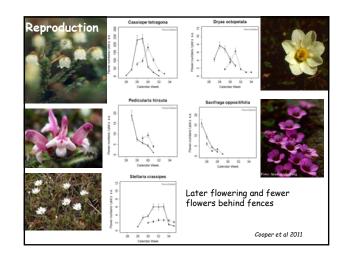


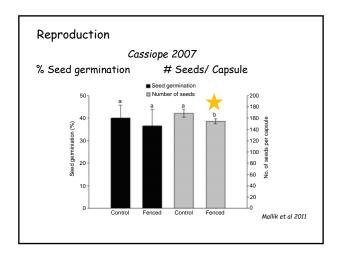


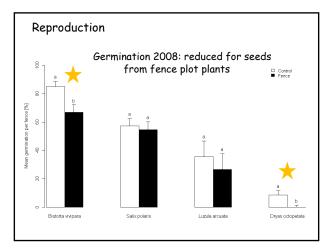


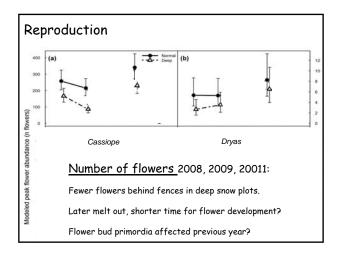


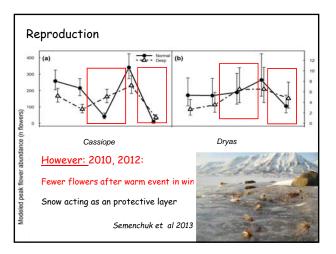


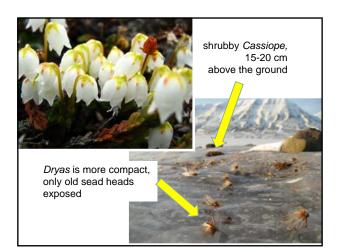


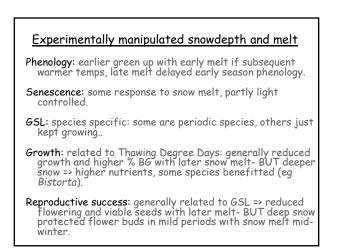


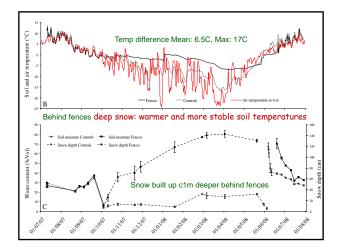


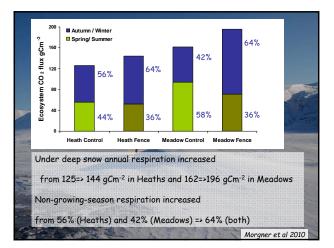


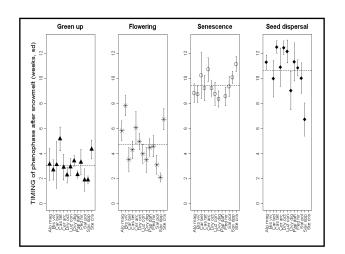






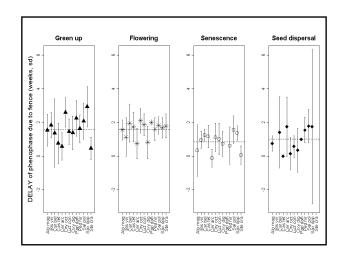






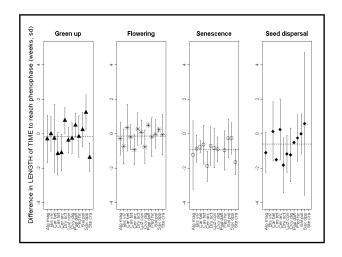
Delay of phenophase due to fence (# weeks later than control)

- Green-up
- Flowering
- Senescence
- Seed dispersal



Length of time needed from snowmelt to reach phenophase. Difference (in weeks) due to fence

- Green-up
- Flowering
- Senescence
- Seed dispersal



Change in duration due to fence

- Length of growing season (date of senescence-green-up)
- · Length of reproductive period
 - (date of seed dispersal- date of flowering)

