Project No.7:Quantification of BVOCs emissions

L. Macálková





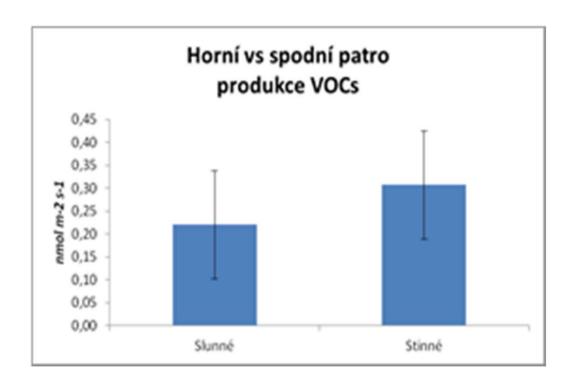




Material and methods

- in this project we have analyzed chromatograms obtained in Project no. 6
- sun and shade needles of Norway spruce were studied
- Blanks (traps with air which was not influenced by spruce shoot – empty chamber) were also analyzed for the background level of BVOCs
- company software was used to quantify the amounts of BVOCs

Result



total amount of emitted BVOCs under standard conditions (30°C, 1000 umol m-2 s-1) in sun and shade shoots

Conclusions

- spruce is a low emitter of BVOCs as compared for example to poplar (topol) or beech (buk)
- we expected that sun needles will emit more BVOCs as compared to shade needles
- surprisingly we observed the opposite story
- it could be explained as
 - shade needles were not enough shade (see chlorophyll story – project no. 4) or
 - we made a discovery ☺