Supplement

Moist moss tundra on Kapp Linne, Svalbard is a net source of CO₂ and CH₄ to the atmosphere

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Contents of this file

The information provided here is aimed at giving the reader a better overview of the measurement location and with some pictures of the used equipment and vegetation in the chamber frames. The estimated greenness index (GI) for each chamber frame is specified in the legend of the figures S4a-y.



Figure S1. Left: Overview of the Svalbard archipelago showing the location of Kapp Linné (red dot) at the mouth of the Isfjord. Right: The eddy covariance system at the measurement site.



Figure S2. Left: Detail of the soil efflux chamber

for CO₂ and CH₄ measurements. Right: Overview of the chamber system with frame, chamber, gas analyser, power supply and laptop.



Figure S3. Overview of the moss tundra study site. The location of the eddy covariance system is marked by the red star. The whole area is ca 5 ha in size.



Figure S4a. Picture of vegetation in chamber frame (Frame N1:1; GI=0.334) that was used to estimate the greenness index, GI. The following pictures (Fig. S4b-S4y) are showing vegetation for the remaining 23 frames.



Figure S4b. Frame N1:2. GI=0.336



Figure S4c. Frame N1:3. GI=0.333



Figure S4d. Frame N1:4. GI=0.345



Figure S4e. Frame N2:1. GI=0.350



Figure S4f. Frame N2:2. GI=0.369



Figure S4g. Frame N2:3. GI=0.343



Figure S4h. Frame N2:4. GI=0.347



Figure S4i. Frame N3:1. GI=0.334



Figure S4j. Frame N3:2. GI=0.323



Figure S4k. Frame N3:3. GI=0.335



Figure S4I. Frame N3:4. GI=0.336



Figure S4m. Frame S1:1. GI=0.326



Figure S4n. Frame S1:2. GI=0.316



Figure S4o. Frame S1:3. GI=0.319



Figure S4p. Frame S1:4. GI=0.337



Figure S4q. Frame S2:1. GI=0.354



Figure S4r. Frame S2:2. GI=0.348



Figure S4s. Frame S2:3. GI=0.351



Figure S4t. Frame S2:4. GI=0.353



Figure S4u. Frame S3:1. GI=0.342



Figure S4v. Frame S3:2. GI=0.340



Figure S4x. Frame S3:3. GI=0.339



Figure S4y. Frame S3:4. GI=0.338