

## Description of Additional Supplementary Files

**File Name:** Supplementary Data 1

**Description:** Sesquiterpenoid emissions from bryophyte and lichen samples. Average sample emissions of sesquiterpenes, SQT2s, OSQTs and DTs for the bryophyte and lichen samples. Emission values are given in  $\mu\text{g m}^{-2}_{\text{tree}} \text{h}^{-1}$  and in  $\text{ng g}^{-1}_{\text{dry}} \text{h}^{-1}$ .

**File Name:** Supplementary Data 2

**Description:** Bryophyte fluxes table for all compounds. Fluxes for all compounds quantified during our study. Mean fluxes for all samples are given for day, night and total in  $\mu\text{g m}^{-2}_{\text{tree}} \text{h}^{-1}$  and in  $\text{ng g}^{-1}_{\text{dry}} \text{h}^{-1}$ . Additionally, information like reaction rates, chemical formula, and compound categories are included.

**File Name:** Supplementary Data 3

**Description:** Lichen fluxes table for all compounds. Fluxes for all compounds quantified during our study. Mean fluxes for samples are given categorized into season, wetted, non-wetted, total season and overall total in  $\mu\text{g m}^{-2}_{\text{tree}} \text{h}^{-1}$  and in  $\text{ng g}^{-1}_{\text{dry}} \text{h}^{-1}$ . Additionally, information like reaction rates, chemical formula, and compound categories are included.

**File Name:** Supplementary Video 1

**Description:** Cryptogamic cover in the Amazon rainforest. This video shows the coverage of cryptogams in the canopy, stem and understory area of the Amazon rainforest. The video was recorded in the rainforest at the ATTO site.