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*Supplement of*

## **Automation of soil flux chamber measurements: potentials and pitfalls**

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Figure S1. Newly developed root mat within a LI-8100A collar discovered after collar removal in August 2014.

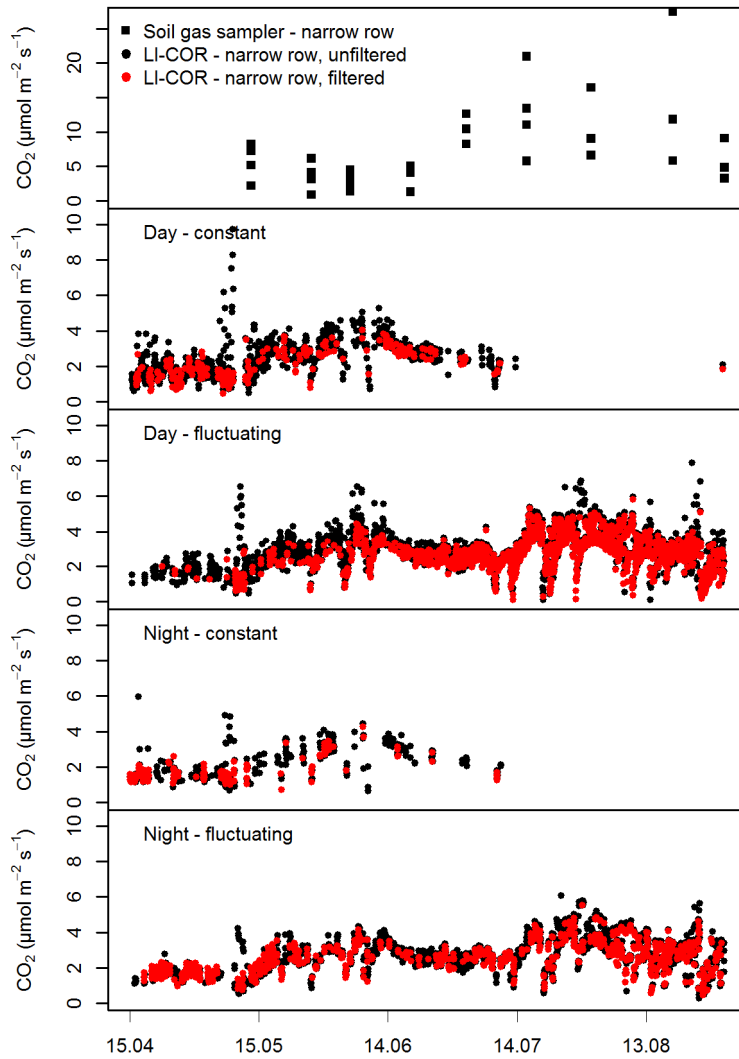


Figure S2. Soil gradient based CO<sub>2</sub> fluxes and unfiltered chamber CO<sub>2</sub> flux datasets for the entire monitoring period (narrow rows only). Carbon dioxide fluxes over time were grouped by time of the day and stability of the atmospheric CO<sub>2</sub> concentration at 50 cm above the soil surface. The datasets were divided into day and night based on sun rise and sunset times. Atmospheric CO<sub>2</sub> concentration was considered as constant when the standard deviation for a 3 min measurement prior to the chamber closures was  $\leq 1.0$  ppm.