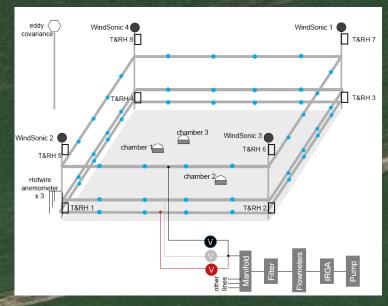
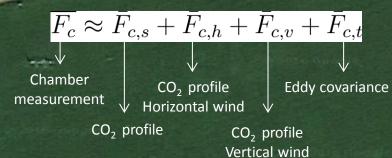


Contribution of the advection terms for **NEE** in short-statured ecosystems

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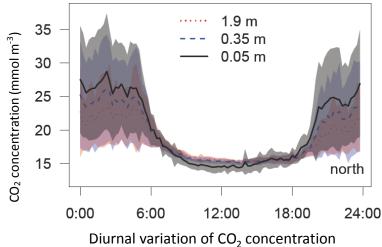
Acknowledgements:

- Katharina Scholz
- Katharina Gerdel
- Karl Krainer

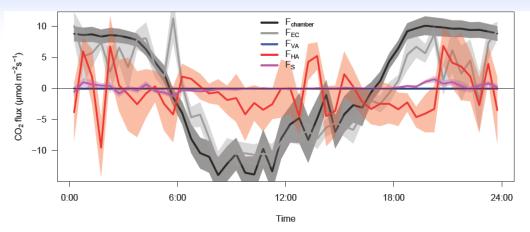




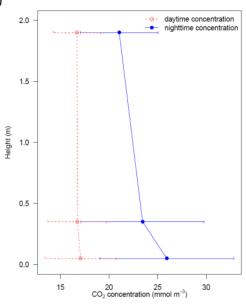
Results



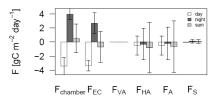
Horizontal heterogeneity in ${\rm CO_2}$ concentration

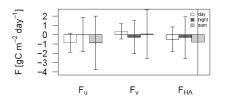


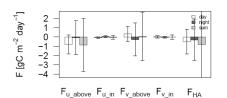
Diurnal variation of flux components



Vertical profile of CO₂ concentration







Contribution of each flux term

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Prospective

We offer:

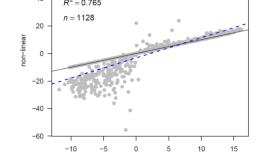
- CO₂ fluxes of all components in July 2016
- CO₂ concentration at three heights (0
 2 m) on a 20 m x 20 m wall on 15-min basis
- 2D wind velocity at 2 m every 3 second
- Minutely air temperature and relative humidity at 0.3 m and 1.6 m
- Hourly weather records

We need:

- Vertical wind velocity (w) from eddycovariance measurement with planar fit method
- Integration with DTS measurement
- Raw data CO₂ fluxes by chamber measurements, 1 – 29 July 2016 (now only 7 – 19 July available)

Further calculation of chamber CO₂
 fluxes

y = 1.47x - 3.22



linear

Thank you!