

**Measuring reflectance and diurnal dynamics of SIF on the ground and from UAVs,
B. Siegmann**

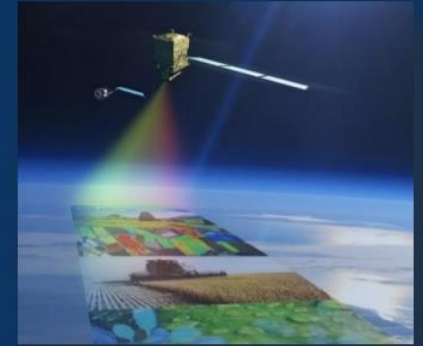
Local SIF: ground-based and UAV – B. Siegmann



Measuring reflectance and diurnal dynamics of SIF on the ground and from UAVs – LIAISE campaign (12-26 July 2021)

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Goals of the UAV and ground activities

- Collect reflectance and SIF measurements to support and validate the airborne measurements recorded by HyPlant
- Gain a better understanding of the temporal dynamic of SIF on canopy and leaf scale
- Measure plant parameters on the ground (e.g., LAI, chlorophyll content) to enable a spatial mapping of those parameters from UAV and aircraft data



Overview on recorded UAV data

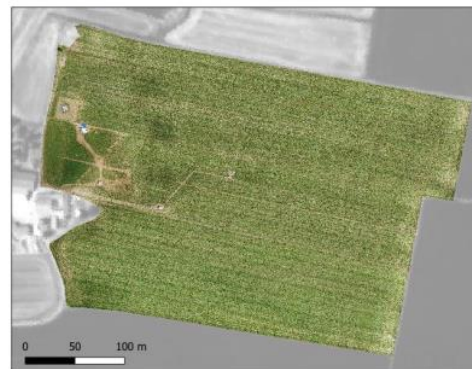
- Data acquisition with two different sensor packages
 - Sony $\alpha 7$ (RGB) + MicaSense RedEdge MX dual (multispectral) camera
 - Prototype SIF dual camera system



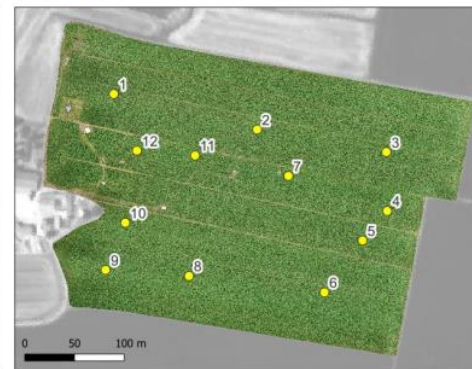
14 July



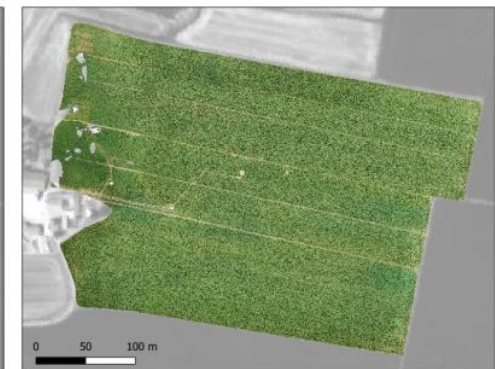
19 July



26 July

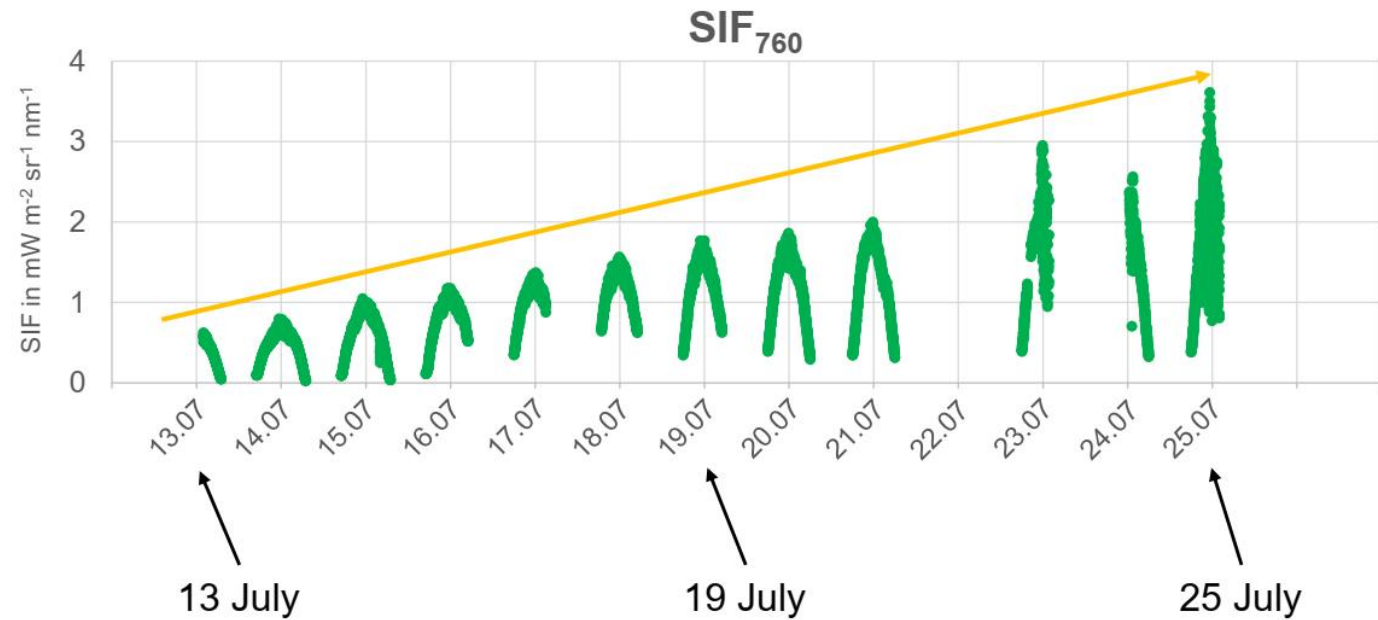


28 July



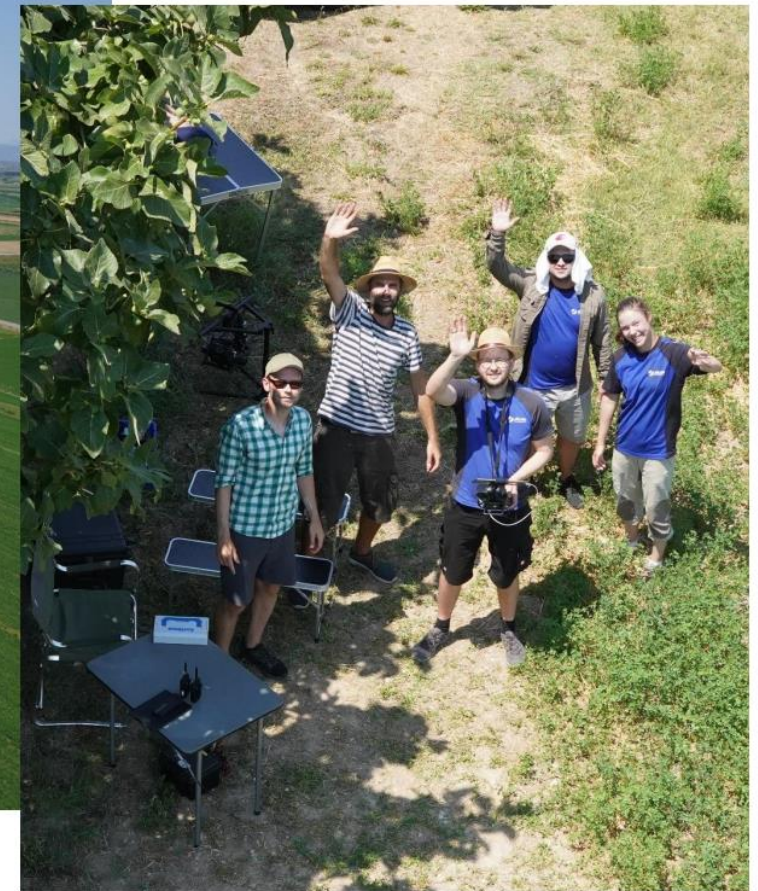
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Overview on recorded field data



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Thanks for your attention!



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