



Synchronized AirFloX and SIFcam test flights for assessing solar induced chlorophyll fluorescence (SIF) in crop varieties

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SIF-drone setting

AirFloX: non-imaging point spectrometer with high spectral resolution, enables SIF-retrieval at 760 and 687 nm and total SIF emission



SIFcam: imaging sensor with two spectral bands, SIF-retrieval at 760 nm



RGB

RGB camera: high spatial resolution imagery



All sensors are triggered simultaneously



Freefly ALTA – X drone system



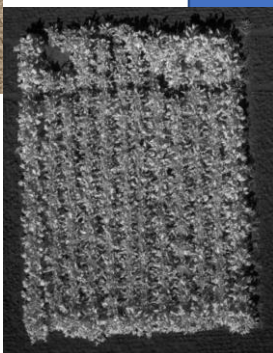
Orthophoto: 11th July 2023

AirFloX: data points from 08th Sept. 2023

PhenoRob field

- AIRFLOX - FLUO channel
- AIRFLOX - FULL channel
- Sugarbeet & weeds
- Sugar Corn
- Soybean
- Potatoe

SIFcam raw at 757 nm



Sugarbeet images
08th Sept. 2023
02:30 pm