

Measuring and modelling the seasonal development of crops on marginal substrates by optical remote sensing

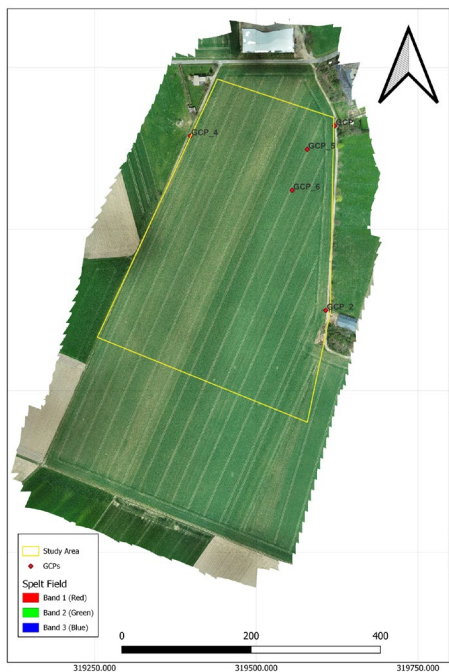
Results

Saja Salattna

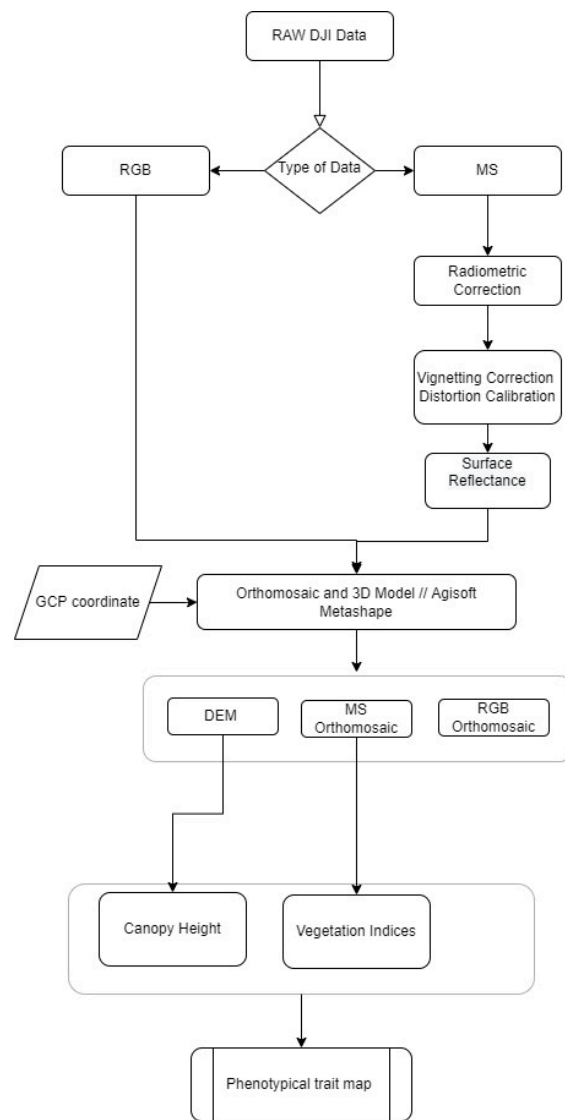
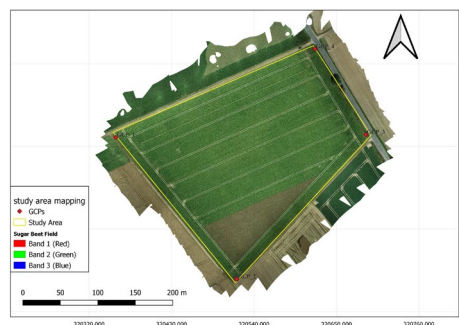
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The primary objective of this research is to evaluate and monitor the short and mid-term effects of Biochar on crop performance based on high-resolution unmanned aerial vehicle UAV imagery. DJI Phantom4 RTK and Phantom 4 multispectral MS have been used to collect RGB and MS data over Spelt field in Amlen_Titz during the vegetation season April- July 2022

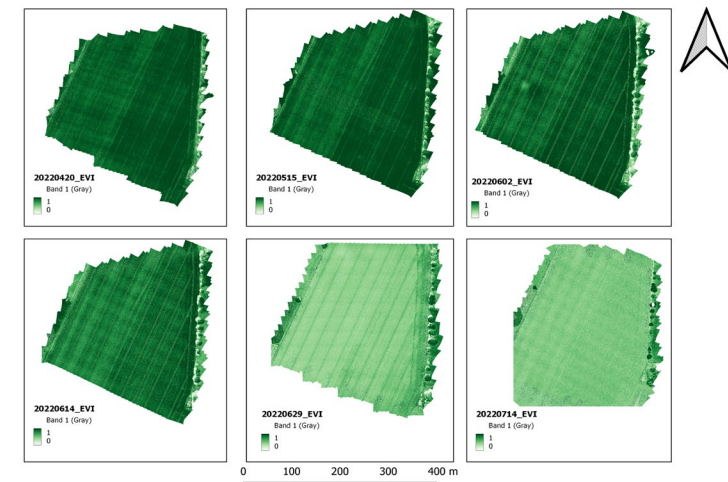
Satellite Images (Sentinel2) also has been collected from EO_Browser and Sci Copernicus, for analysis and comparison with UAV data.



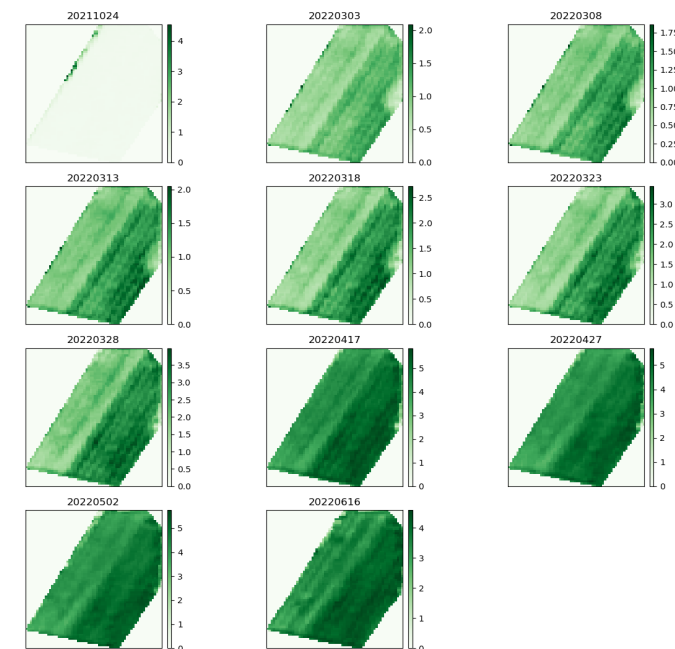
Study area map (RGB images from DJI Phantom4 RTK)



UAV data processing pipeline



Enhanced Vegetation Index EVI timeseries map (UAV data)



Leaf Area Index LAI timeseries map (Sentinel2 imageries)