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Diagnostic tool that INtegrates Optical, infrared and SAR data

D2.3. Report on initial in-situ data collection period

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Deliverable abstract

This deliverable reports on the DINOSAR in-situ data collection campaign for sugarcane in the Cauca Valley (Colombia) and the resulting datasets used for model calibration and validation. Field measurements were carried out at high frequency (weekly during the first nine weeks and biweekly thereafter) to capture fine-scale growth dynamics of this C4 crop. The campaign used a digital workflow (Fulcrum mobile forms, GPS and photo records, systematic weekly quality checks, and outlier filtering supported by Python scripts) to ensure traceability and data reliability. The final outputs include a raw dataset, an averaged dataset suitable for correlation analyses, and an averaged dataset enriched with climatic variables (temperature, rainfall, solar radiation and relative humidity). The data were uploaded to the Fieldlook platform for access, visualization and comparison with EO-derived products, supporting robust algorithm development under real field conditions.

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