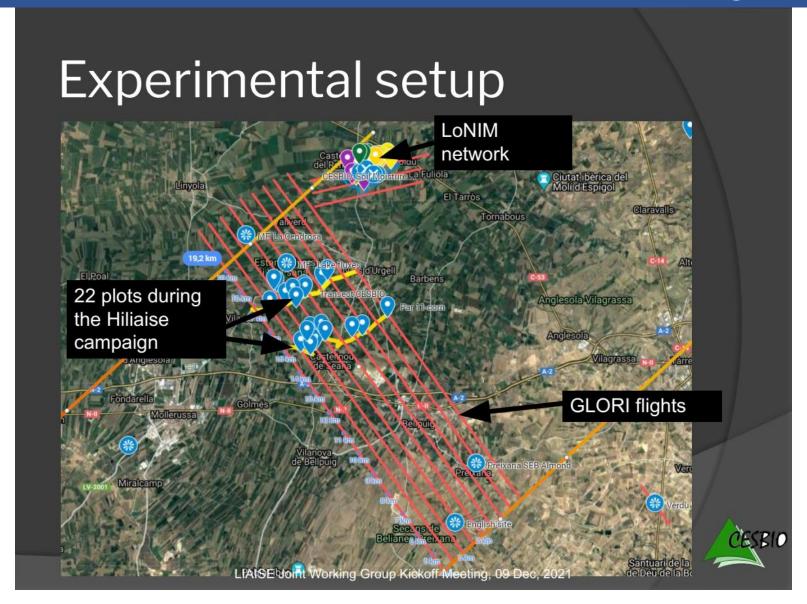
Retrieval of surface soil moisture and irrigation events with GLORI and Sentinel-1

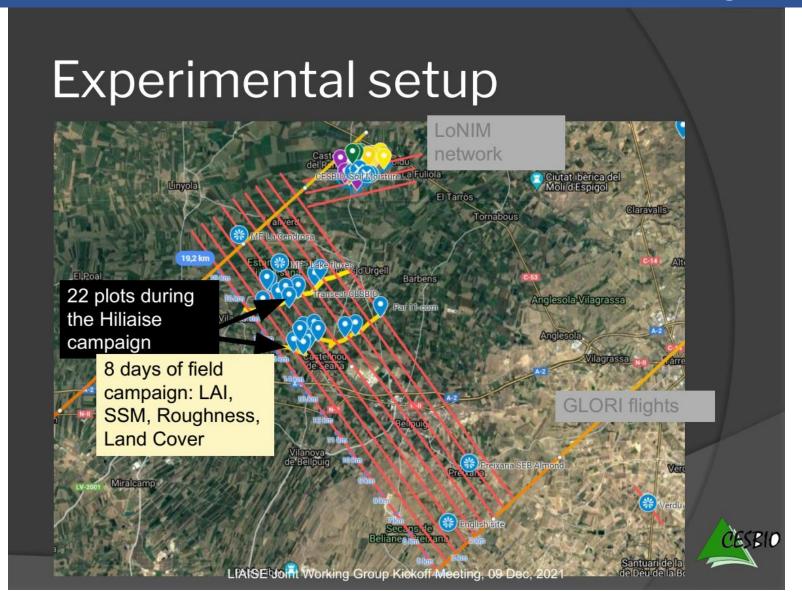
M. Le Page

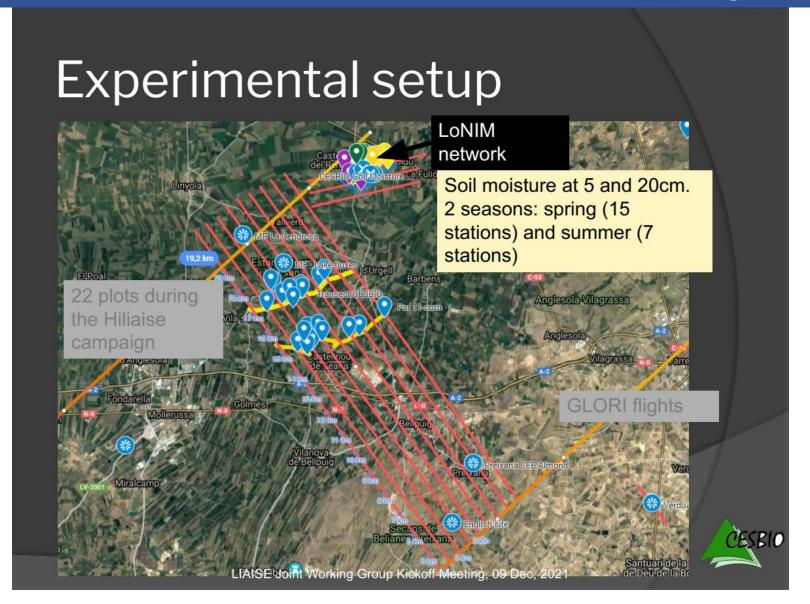
# Objectives

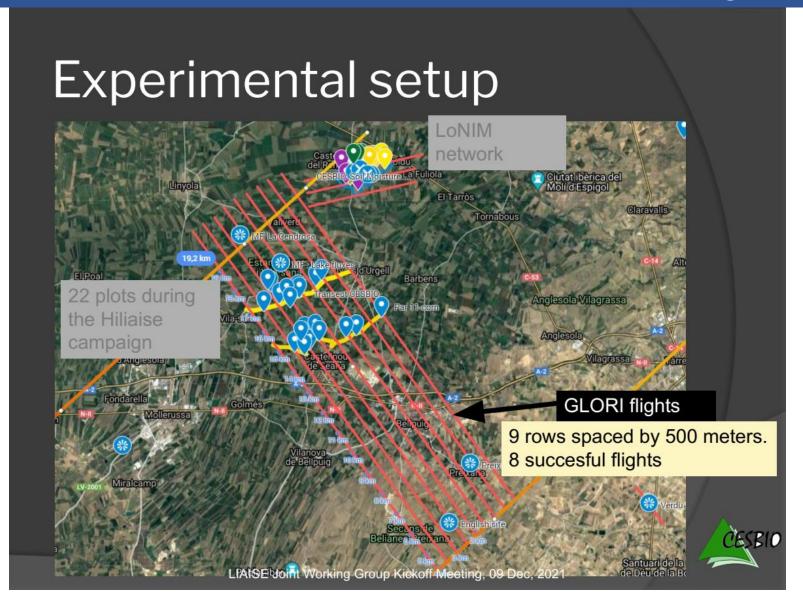
- Compare GLORI and Sentinel-1 approach of SSM retrieval with field Measurements
- Test algorithms for irrigation event retrieval and irrigation mapping







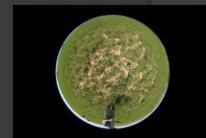




# Data processing

Dataset	Status
In situ Soil roughness	Done
In situ SSM	Done
LAI Hemiphoto	Done
Sentinel1 SSM	Done (from April to Sept 2021)
LoNIM Soil moisture	Under calibration
LandCover Map	Done
GLORI dataset	Processing/first results



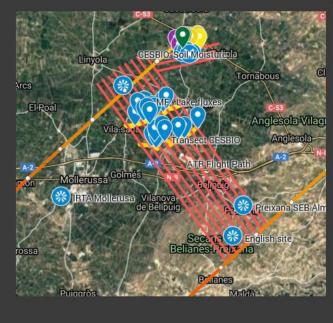


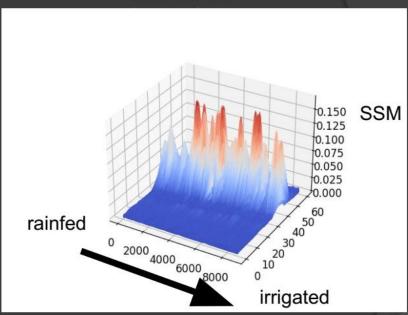


LIAISE Joint Working Group Kickoff Meeting, 09 Dec, 2021

# First results on GLORI

One GLORI

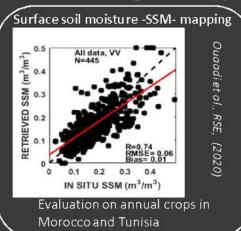


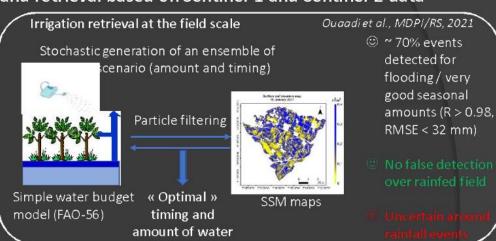




# Future work on irrigation

Irrigation mapping and retrieval based on Sentinel-1 and Sentinel-2 data





1) Classification of irrigated/rainfed (annual) crops

No need of
« training » data /
comparison to
machine learning
approaches

