

Impact of Surface Heterogeneities on the Atmospheric Boundary Layer: A 1D Modeling Study Under Observed LIAISE Forcings

8 OBSERVATION DAYS

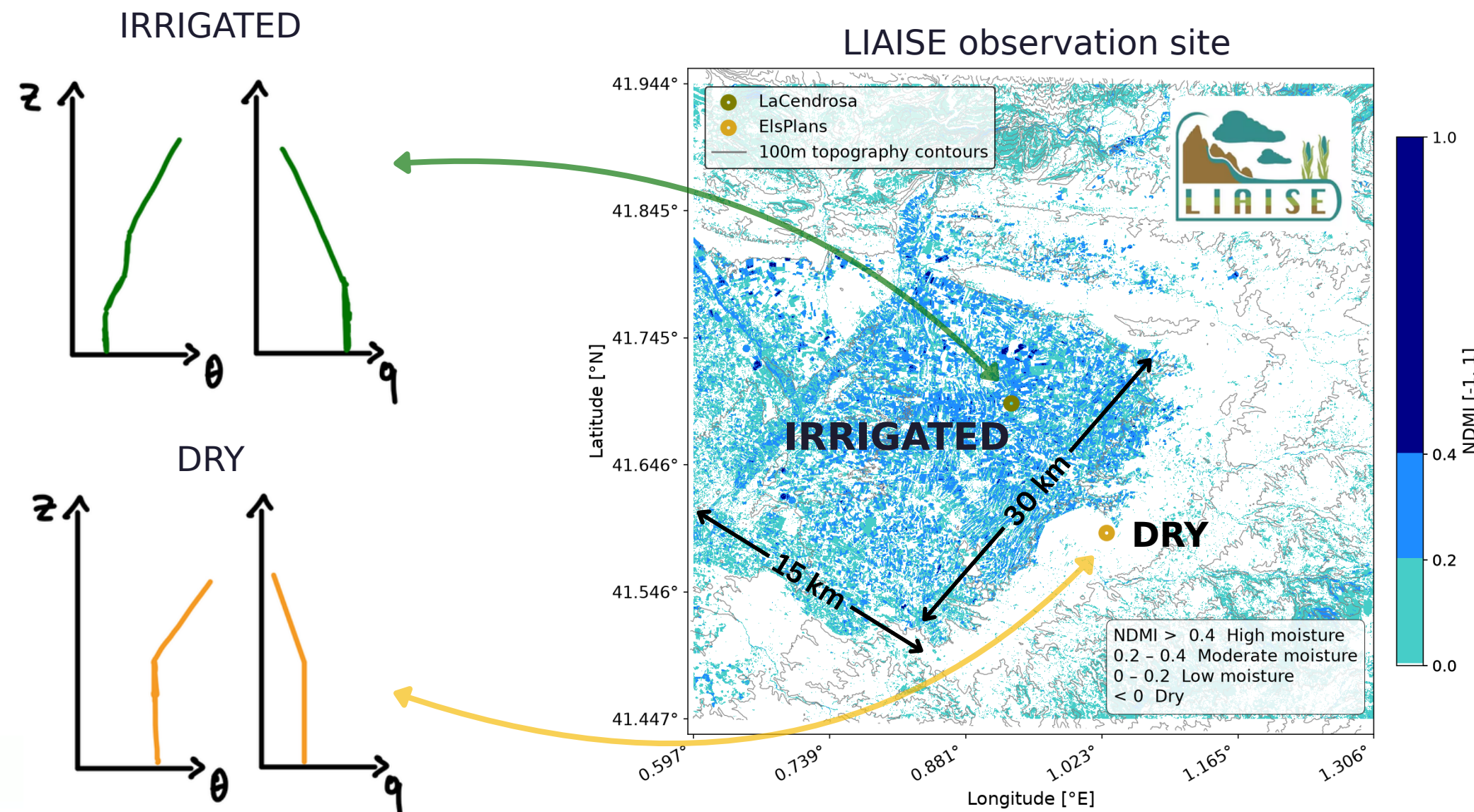
- Radiosoundings
- SAFIRE aircraft
- Instrumented Tower
- ...

INITIAL CONDITIONS (IC):

- Mesoscale wind
- Surface fluxes

FORCING:

- Afternoon sea breeze intrusion
- Topography

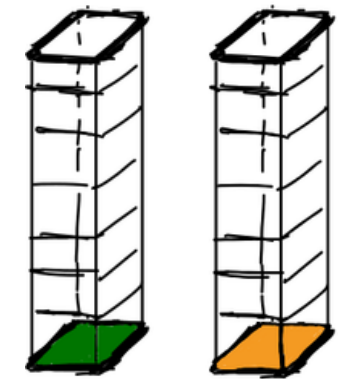


1D MODELING:

Objective 1:

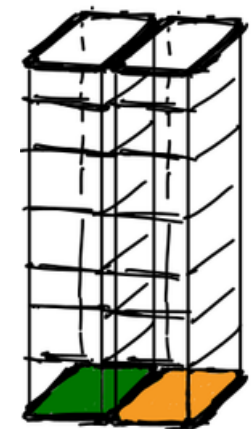
- Reproducing the boundary layer evolution with a 1D model over each area (irrigated/dry) for the different IC+forcing

Meso-NH
mesoscale non-hydrostatic model



Objective 2:

- Testing the boundary layer evolution in a coupled two-column model for the different IC+forcing



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