

Partitioning between evaporation and transpiration in drylands by different remote sensing models

The objective of the project is to a) evaluate how well different remote sensing based models partition evaporation and transpiration validating with ecophysiology Licor data; b) explore the links between leaf functioning and spectral/thermal changes and potential for modeling canopy conductance to improve model partition.

Almeria, Balsa Blanca, Spain (2008/2009) is the study site and the following data is to be used:

- Already existing database of leaf transpiration, assimilation from Licor6400
- Database of field canopy spectra (taken at midday) and radiometric temperature (taken at different times across the day to match the Licor)
- Eddy covariance and flux data.

Plant transpiration and soil evaporation models using remote sensing and meteorological data will be ran for the period of study and compare to the Licor measurements.

Project type

Topic is suitable for MSc project

Pre-requisite

Experience with matlab

Group size

1-2 students

Department of supervisors

Main supervisor: DTU Environment

Co-supervisor: DTU Environment

Contact person

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