PRIMA Project: Irrigation and Drainage monitoring by remote sensing "IDEWA"

The project aims to **bridge the gap between potential and actual irrigation performance** in the Mediterranean, by the development **of innovative irrigation management tools** based on readily available multi-sensor **remote sensing data**.

Objectives

- To improve our knowledge on the downstream impacts of irrigation, by explicitly taking into account drainage, and its impact on the streamflow by inclusion of irrigation processes in Land Surface Models.
- To define, develop and implement innovative algorithms to estimate high spatial resolution soil moisture, evapotranspiration, and characterize vegetation status and water quality from Earth Observation data.
- To perform validation experiments on a regular basis using in situ, Earth Observation and modelling activities for all IDEWA estimates. Demonstration plots have been selected in ecological sensitive areas both in Spain (Ebro basin) and Morocco (Tensift basin).
- To work together with local irrigation community to ensure bidirectional knowledge transfer i.e. that the research takes into account their knowledge and that the research results reach the community strengthening their skills, competencies and abilities.
- To promote the IDEWA project results, using open workshops and seminars, webinars, scientific peer-review articles, a web-portal, delivery of free open data, brochures, newsletters for the stimulation of user uptake.

Partners

CESBIO, isardSAT, Observatorio de l'Ebre, Universitat de Lleida, Universite Cadi Ayyad Marrakech, imaa, LabFerrer, IRTA Recerca i Tecnologia Agroalimentàries, Mohammed VI Polytechnic University

Call: PRIMA S2 2019
Type of Action: Collaborative project
Acronym: IDEWA
Duration: 36 months
Start Date: 2020-01-10
Estimated Project Costs: € 954.858
Requested EU Contribution: € 645.241

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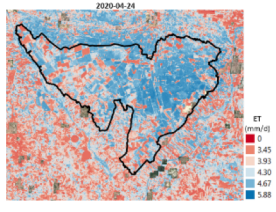

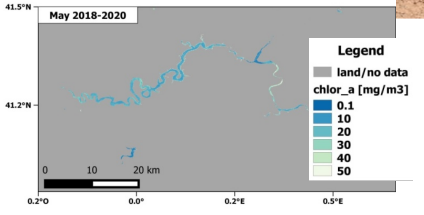

PRIMA Partnership for Research and Innovation in the Mediterranean Area

http://idewa.isardsat.space/

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