

Irrigation–climate feedbacks in coupled climate simulations: First results using an integrated hydrological modelling tool

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P. Greve, A. U. Schmitt¹, S. J. Schreiber, A. Cledat, and P. Burek, *C-CWatM v1.0: A high-resolution water resources and river routing model enabling direct linkage to state-of-the-art Earth-system and land-surface models* (submitted to GMD)

Coupled Water Modelling with C-CWatM



Climate-CWatM (**C-CWatM**) is a socio-hydrological modelling tool that

- can be easily linked with regional or global climate models
- simulates hydrological quantities, sectoral water use, and water storage to estimate water resource availability

C-CWatM can be integrated into existing modeling systems using an OASIS3-MCT coupling interface.

C-CWatM sends the **irrigation water amount** to the coupled (regional) climate model.

The required forcing data are:

- runoff
- groundwater recharge
- soil water content
- evaporation over water

Download from:



github.com/UWaRes/c-cwatm