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Session abstract

Title: New tools for improving water productivity in irrigation

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Recent emphasis has been placed on improving the efficiency and performance of irrigation systems for improving water productivity. Agro-hydrological simulation models (together with optimization tools) have a key role to play in supporting water allocation decisions at field and regional scale. Unfortunately, such predictive models have low operational focus, especially in regions where they are most needed. In addition, there is a lack of systematic and detailed calibration procedures including well-controlled experiments which provide agro-hydrological simulation models for reliable and accurate extrapolations in space and time. This session invites contributions that present the latest challenges, simulation-based solutions for improving water use efficiency in irrigation and systematic calibration strategies for agrohydrological simulation models.

Keywords: agro-hydrological simulation models, irrigation, water productivity