

HS22 Coupling hydrology and atmosphere from catchment to global scales

(co-listed in AS, CL & OS)

Event Information

The overall purpose of this session is to examine our capability to simulate water and energy budgets from catchment to global scales by bringing together scientists with different backgrounds and modelling approaches. A particular goal is to better understand and advance the capabilities of coupled hydrological/atmospheric models, macro-scale hydrologic models, regional and global climate models, and land data assimilation systems. Aiming at improved hydrological predictability in short-term flood forecasting as well as in long-term climate impact studies, a focus will be set on the central question of how reliably meteorological models can reproduce meteorological fields for the use in hydrological models. Improved understanding of the coupled land-atmosphere system including the impact of land-surface patterns is given special attention, and studies that compare model and observational datasets are especially encouraged. Terrestrial water fluxes of interest include evapotranspiration, runoff, river discharge and groundwater recharge as well as human perturbations of the water cycle, e.g. by water diversions. Of particular interest are analyses of large-scale droughts and floods. We also invite studies on macro-scale water management (e.g. virtual water) and water quality issues and call for examples related to the GEWEX Continental Scale Experiments and the use of data obtained through the Coordinated Enhanced Observing Period.

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Deadline for abstract submission: 13 January 2006

Detailed information on abstract submission:

http://meetings.copernicus.org/egu2006/how_to_submit_an_abstract.html

General information about EGU General Assembly 2006:

<http://meetings.copernicus.org/egu2006/>