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ACG36-03 Room:103 Time:May 21 09:30-09:45

## Global high resolution hydrology and water resources dataset by global water resources model H08

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H08 is a global water resources model which deals with both natural hydrological processes and major human activities related to water use. H08 consists of six sub-models: land surface hydrology, river routing, crop growth, reservoir operation, water withdrawal, and environmental flow requirement sub models. Detailed description of the model formulations and results of validation can be found in Hanasaki et al. (2008a,b). A set of H08 simulations has been conducted using the best available global dataset, and comprehensive dataset on global hydrology and water use (0.5 degree longitude/latitude, daily time interval) have been obtained. All of these input/output dataset and source code of H08 is publicly available.

## References

Hanasaki, N. et al., 2008a. An integrated model for the assessment of global water resources - Part 1: Model description and input meteorological forcing. Hydrol. Earth Syst. Sci., 12(4): 1007-1025.

Hanasaki, N. et al., 2008b. An integrated model for the assessment of global water resources - Part 2: Applications and assessments. Hydrol. Earth Syst. Sci., 12(4): 1027-1037.

Keywords: water resources, hydrological cycle

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