



Coupled land-surface scheme's response to model-adjusted precipitation

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Initialization of moisture profiles from precipitation assimilation has been proposed to overcome the hydrological unbalance between analysis and numerical prediction models. Here, a climate analysis of the coupled land-surface scheme's response to the model-adjusted precipitation is examined through the regional model's surface water budget terms. Because of the water vapor continuous adjustment during the model integration, changes in cloud distribution are expected. The surface radiation terms of the Global Energy and Water-cycle Experiment (GEWEX) Surface Radiation Budget (SRB) datasets are then used to quantify these changes in a regional scale.