

Observations and Simulations of the Water and Energy balances in the Amazon Basin

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Observations and Simulations of the Water and Energy balances in the Amazon Basin We study the water and energy budgets in the Amazon basin, using observations from the different LBA reference sites, and the NCEP reanalysis to estimate the components of the water and energy balances, in terms of seasonal and interannual variability. In addition, simulations of these budgets are analyzed using the results of a 50 years climatology of the CPTEC COLA GCM, in order to estimate the balance components and to investigate the systematic errors in the simulation of these balances. One important issue is the analysis of uncertainties in the estimates of the water balance in the Amazon basin and its northern and southern basis. In addition, the closure of the water balance is to be investigated.

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