

Interannual-interdecadal Variability in the Amazon Hydrological Cycle

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We analyze the seasonal cycle and interannual to interdecadal variability in the Amazon hydrological cycle. The atmospheric reanalysis datasets from NCEP/NCAR and NASA/DAO are compared to each other and to observed rainfall and measurement of evapotranspiration. The reanalysis moisture convergence and runoff data are used to diagnose soil moisture variability. The relation of Amazon water cycle variability to global scale climate variability such as ENSO and tropical Atlantic circulation will also be discussed.