



The precipitation modes in the Amazon Basin

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The precipitation in the Amazon Basin is a result of a complex interaction between the large scale forcing that defines the thermodynamic structure and the atmospheric composition that provides an internal forcing through microphysical processes. The atmospheric composition over the Amazon undergoes a strong yearly cycle from the very clean atmosphere in the rainy season, where cloud condensation nuclei are organic and produced by the forest, to a very polluted one by the end of the dry season where the CCN are produced by forest fires. Observations and modeling provide insight on the complex nature of the interactions.