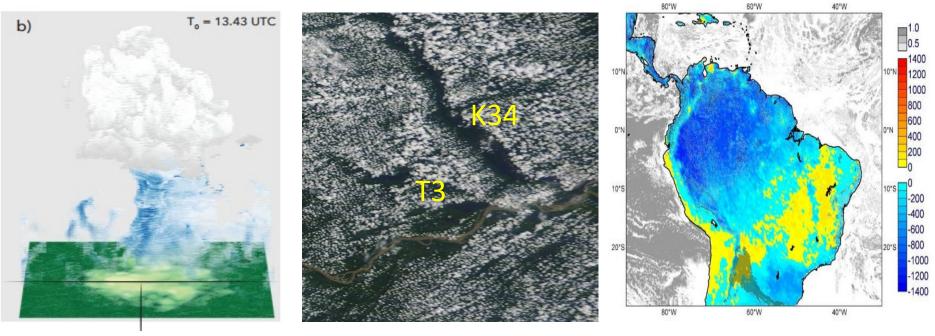
# Interactions between the Amazonian rain forest and cumuli clouds



### Large-eddy simulation

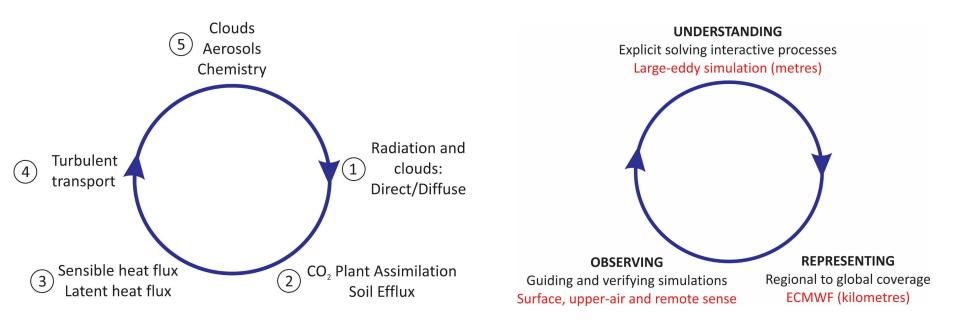
Observations

ECMWF Integrated Forecasting System

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### Motivation

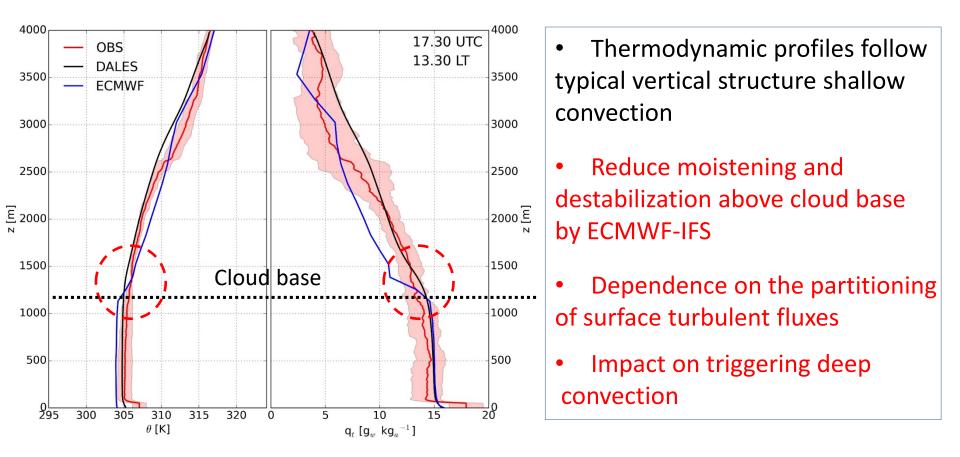
### Strategy and methods



• Role of moisture recycling control by rainforest physiological effects on the **transition shallow to deep convection** 

 Designed and comprehensively evaluated a case for the <u>Amazonia basin during</u> <u>the dry season</u> (GOAMAZON14/15 campaign)

## Moistening and destabilization above cloud base



More complete information: Vilà-Guerau de Arellano et al. (JAMES, 2020)