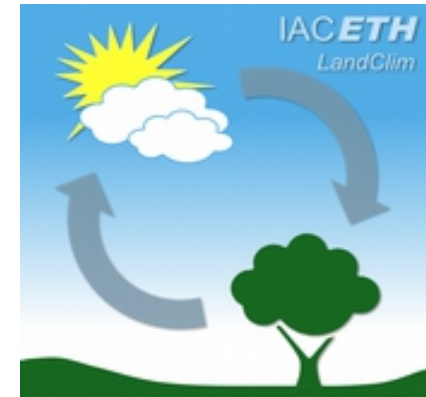


- *Who ?* Quentin Lejeune

- *Where ?* IAC, ETH, Land-Climate Interactions group



- *Which model version ?* COSMO4.8-CLM11, coupled with the Community Land Model 3.5

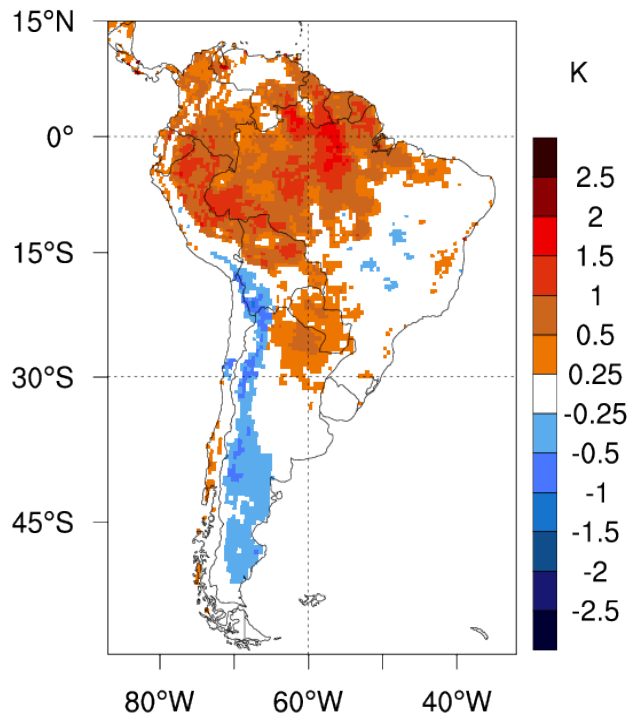
- *What for ?* Investigation of the climatic effects of land-cover changes in South America with a Regional Model

Methods

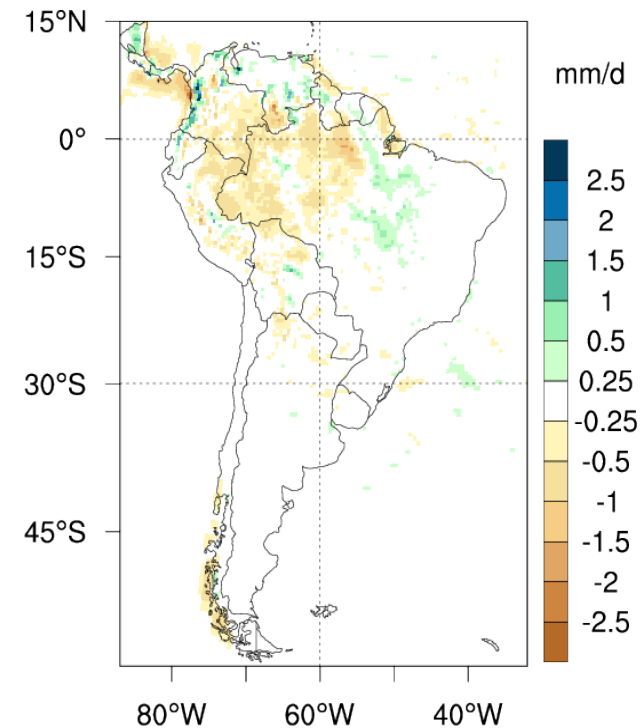
Simulation	CTL	50pct_def	A2
Description	Control	50 % of deforestation	A2 scenario vegetation map (2100)
Data Source	Lawrence and Chase, 2007	Linear interpolation between the % of PFTs of the 2 extreme scenarios	IMAGE model for IPCC

Results

Annual mean T2m A2-CTL



Annual mean precip A2-CTL



Optimization degree

- Job always crashed at a particular time step
- After changing the optimization degree (03 -> 01), it worked again
 - *How much computing time do you save with a higher degree ?*
 - *How much information is lost with a higher degree ?*
 - *How often does a too high optimization degree make a job crash ?*