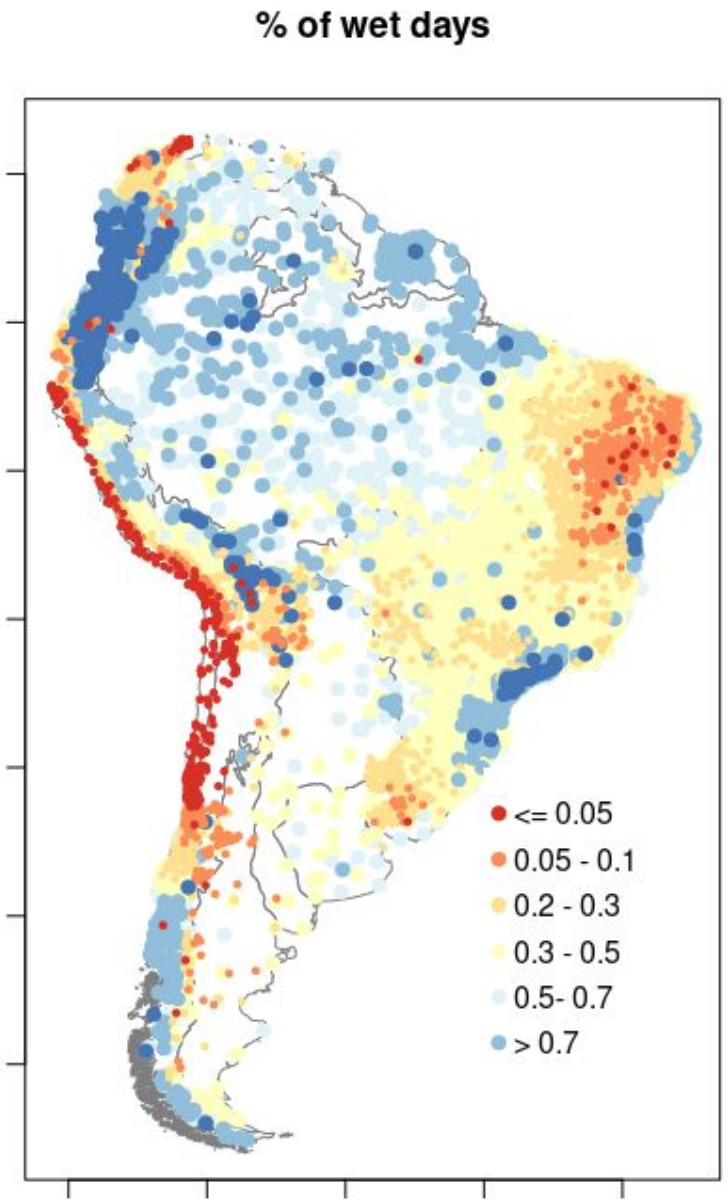
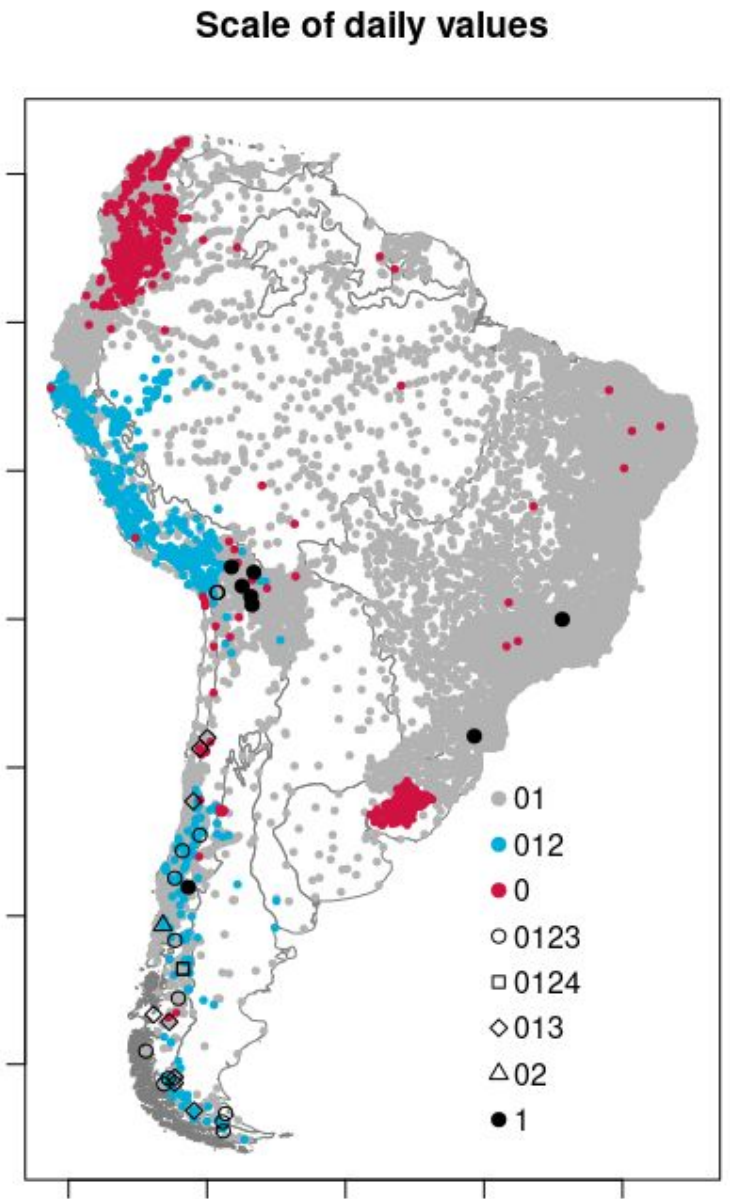
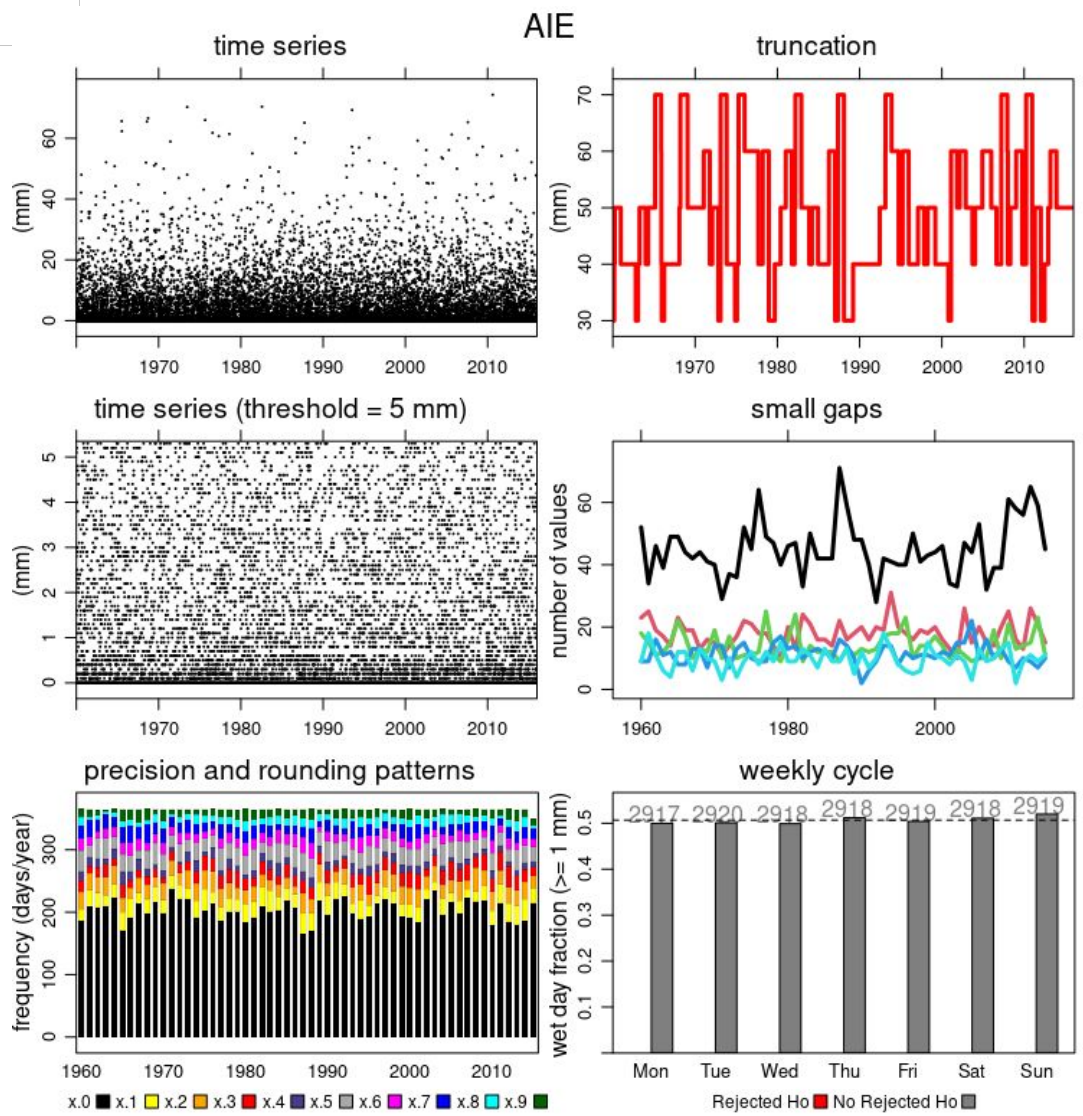
South American RAW precipitation data

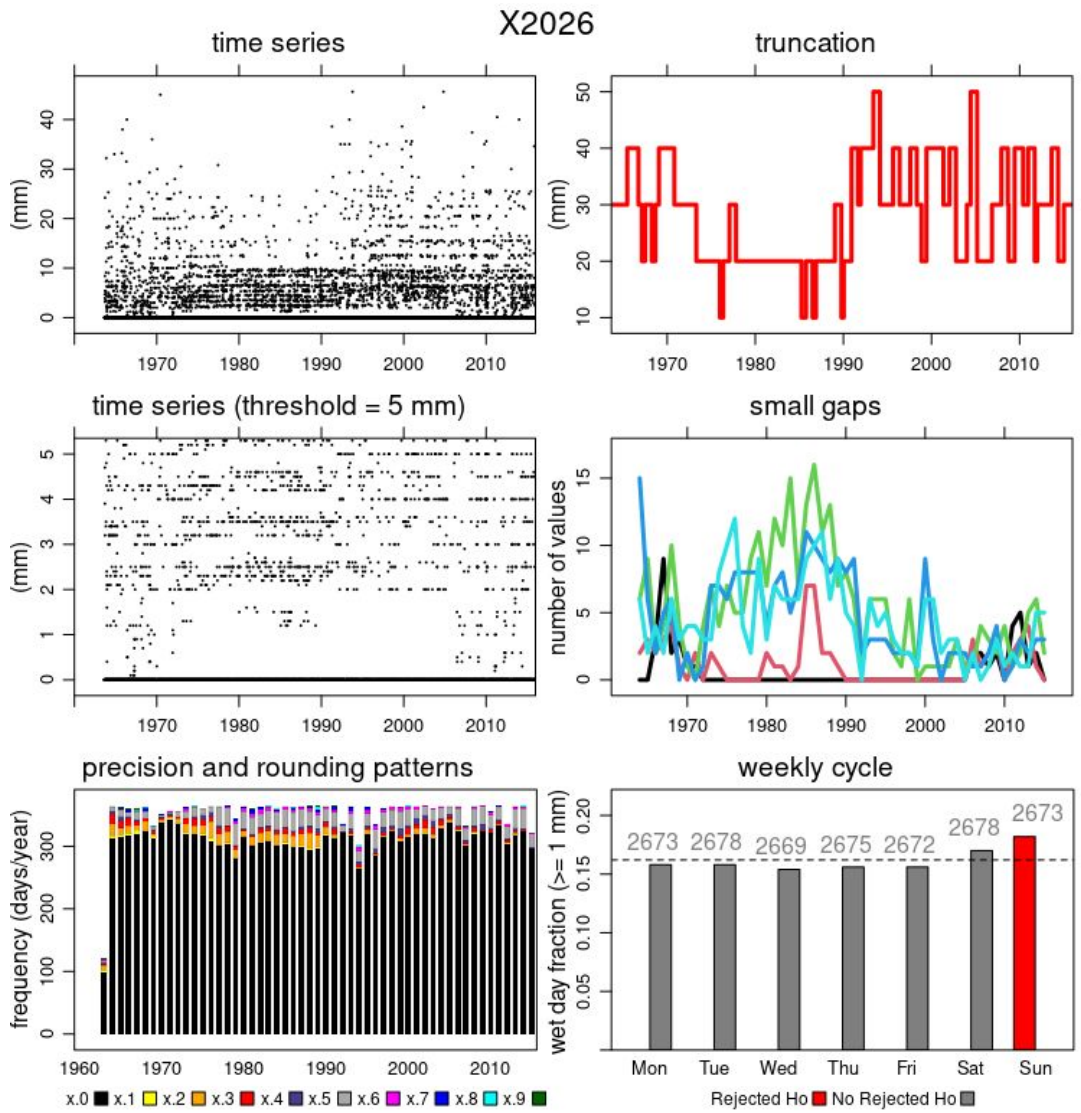




- Diversity of climates based on % of wet days
  - Disparities in some spatial regions
  - Length / bad location of the station
  - QC (and other) process based on % of wet days
- Some diversity in the precision of measurement
  - No too much problem if there are >= 3 decimals
  - Some time series are full of integers
  - QC (and other) process affected by the scale/precision of daily precipitation

Visual enhanced quality control





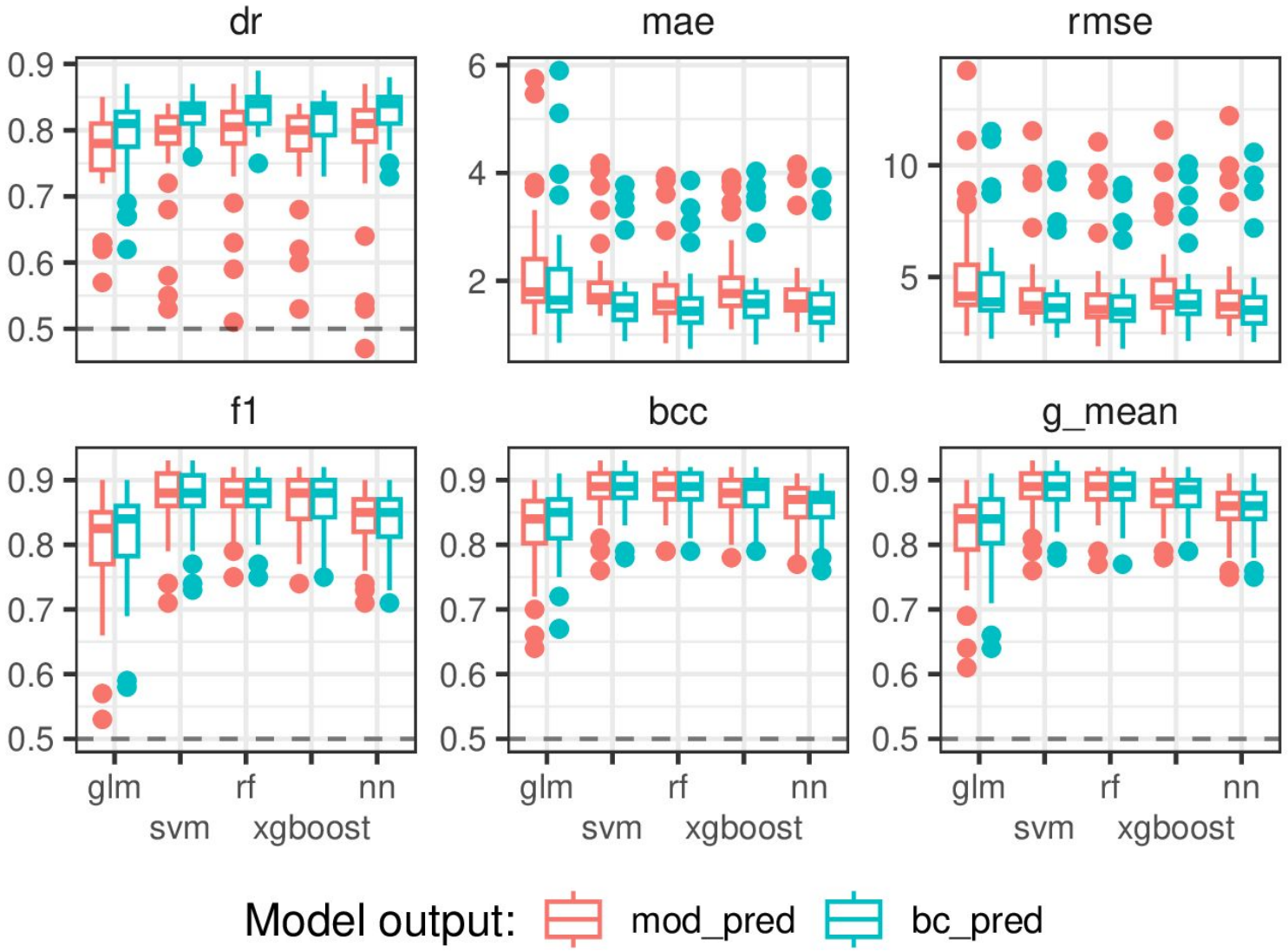
truncation (0) + small gaps (0) + weekly cycle (0) + precision and rounding patterns (0) = 0

truncation (2) + small gaps (2) + weekly cycle (1) + precision and rounding patterns (2) = 7

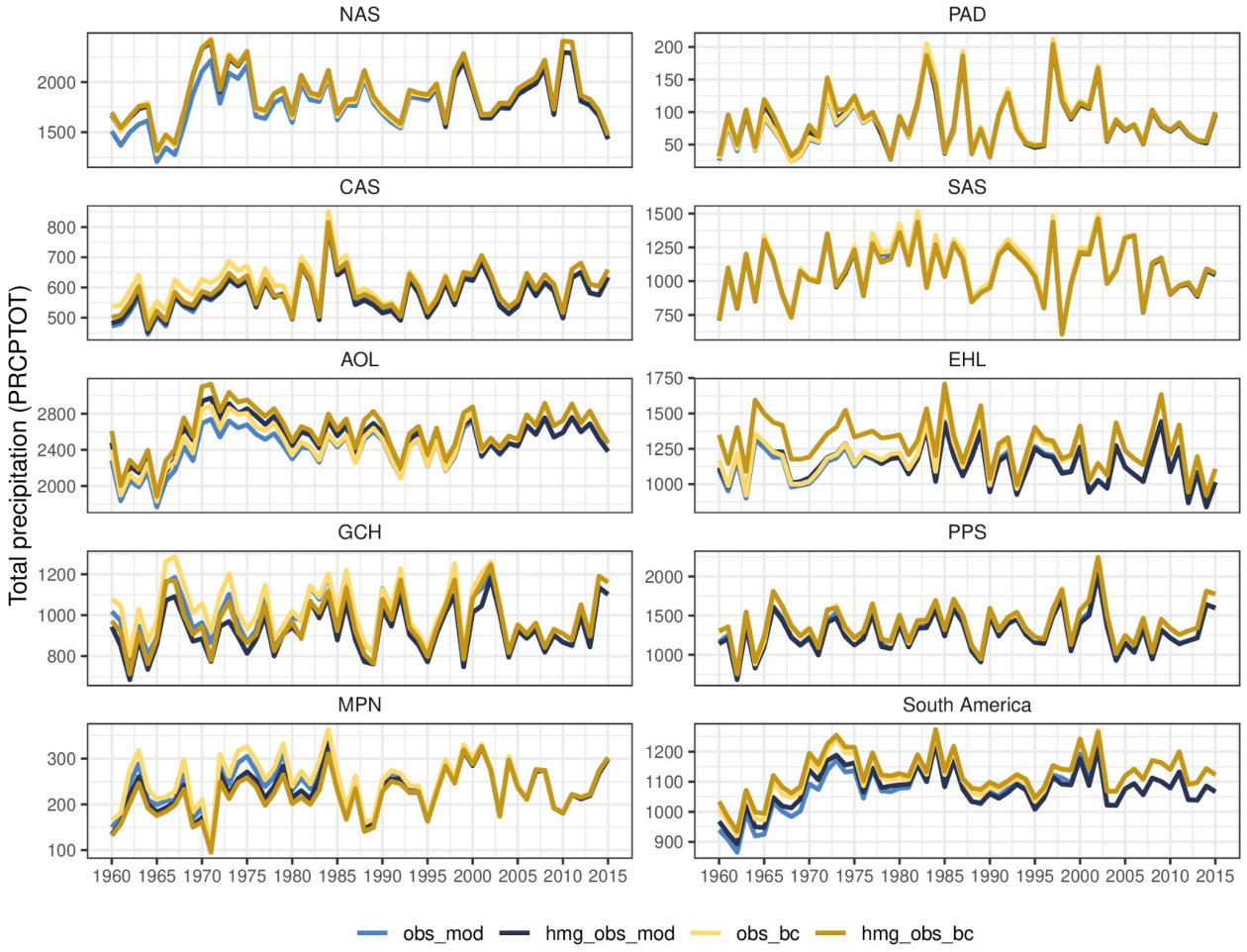
Gap-filling testing

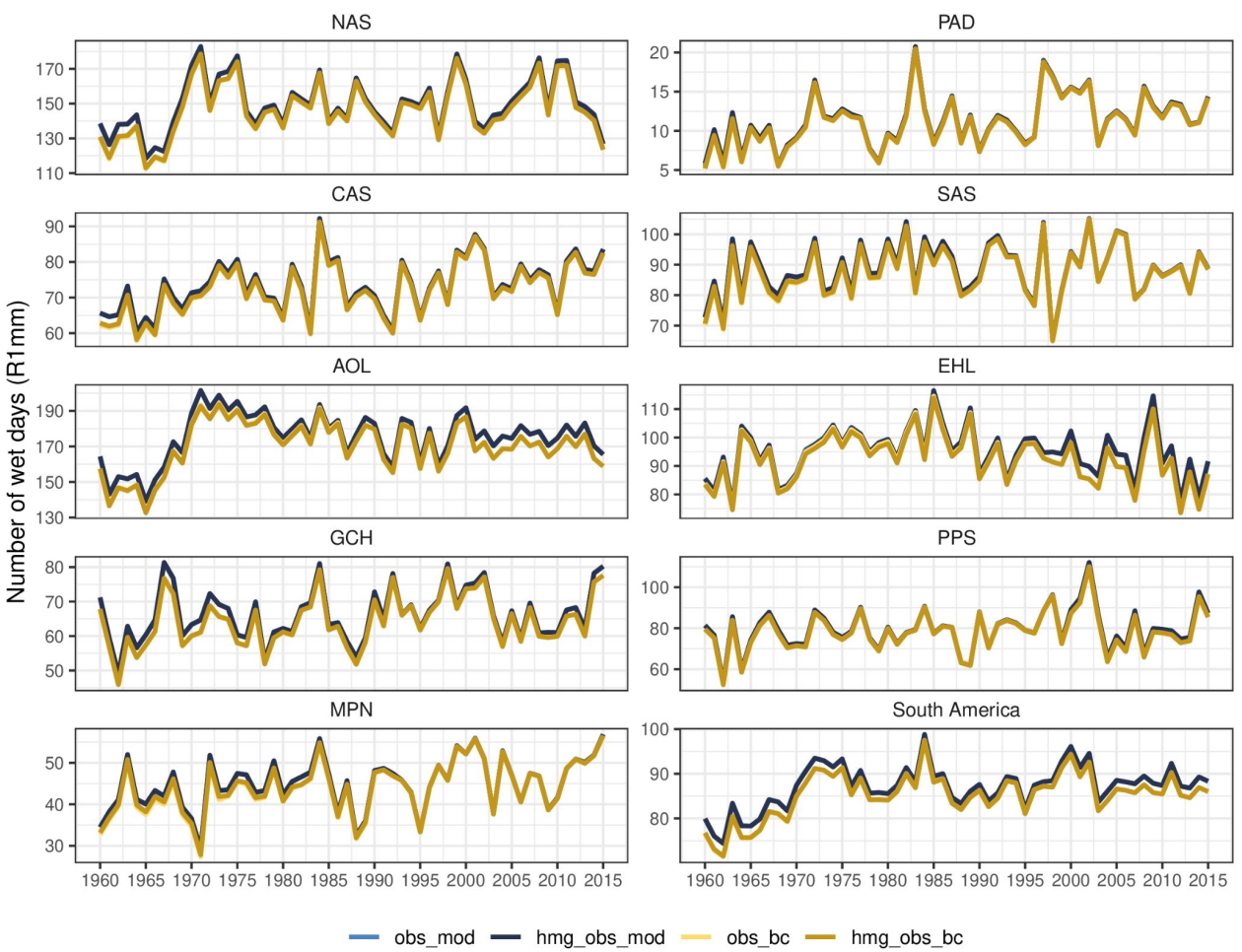
- glm: original reddPrec
- In Switzerland (testing):
  - Machine learning
  - Multiple covariables

dr: measure regression (best 1)
bcc: measure classification



Mean PRCPTOT and R1mm in SA





Evaluation of reconstructed data: wet/dry days vs daily position of Bolivian High System