Identification of contrasting rainfall regimes

- Calibration using regime type: wet years
- Calibration using regime type: dry years

Hydrological model

- Model parameter estimation

- Verification using regime type: dry years
- Verification using regime type: wet years

- Projection performance evaluation

Vivid input from spatially coherent catchments

Hierarchical framework

Level 1: temporal variability
\[ \theta_m = \alpha(c) + \beta(c) \sin[\omega(c)t] \]

Level 2: spatial coherence
\[ \beta(c) = N(\mu_2, \sigma_2^2) \]
\[ \omega(c) = N(\mu_3, \sigma_3^2) \]