pach to precipitation modeling: th lots of 0's in your data

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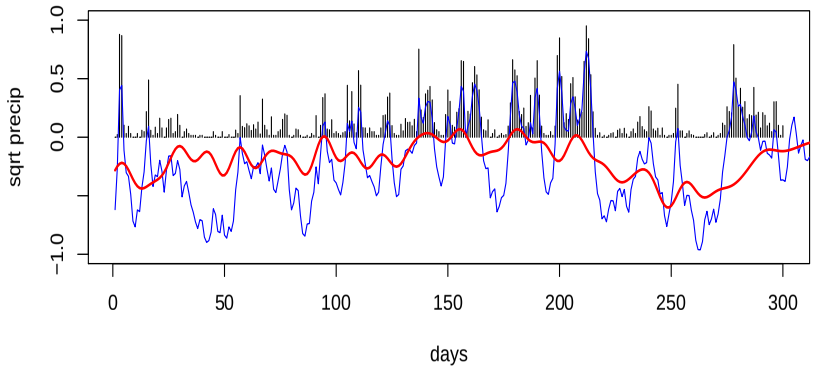
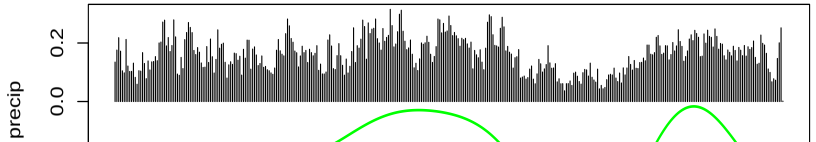
Fitted values of θ_t (thin lines) and seasonal μ_d (thick lines), first 300 days; against average transformed precipitation sqrt(R) (vertical lines).

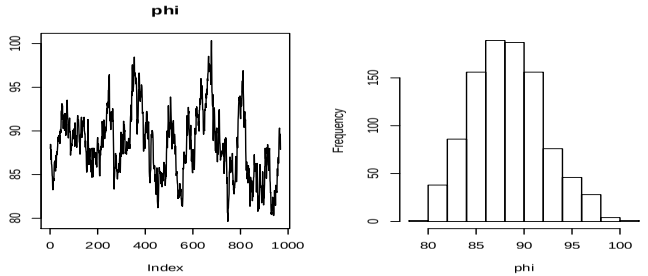


During wet periods, θ_t tracks sqrt(R). During dry periods (precipitation probability $< 50\%$), however, θ_t becomes negative.

Fitted values of seasonal potential μ_d against average transformed precipitation sqrt(R) (vertical lines).



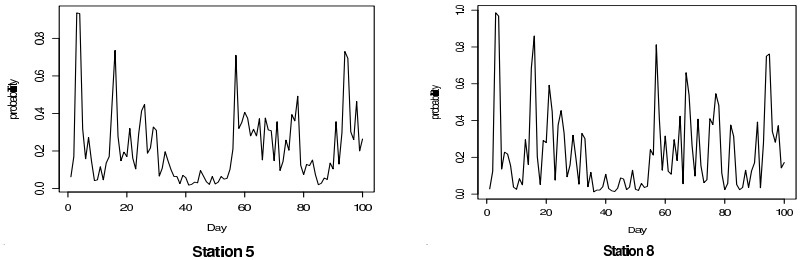
Markov Chain output: ϕ (range parameter, km)



Cross-validation

Predicted precipitation probabilities (first 100 days):

Station 5 Station 8



Station 5 Station 8