

Current scheme

1. (Latent) variables

obs_i : observed cover of species i (*latent variable*)

μ_i : mean cover of species i

Cov_{ij} : Species i class cover j determined by cut-off values θ_j and θ_{j-1}

$Pred_i$: predicted cover of species i by traitspace/banquo

2. Parameters

2.1 Bernoulli process for zeros

ϕ : probability of species to be present

Or

a_{pa}, b_{pa} : linear modeling parameters linking the probability of presence and $Pred_i$

2.2 Species cover as a beta-distributed variable

Φ : spatial aggregation parameter

a_{ab}, b_{ab} : linear modeling parameters linking obs_i and $Pred_i$

σ : error term of the linear modeling

