Table S1: Prior and parameter descriptions for the Stan Model.

Parameter & Prior	Description
$\alpha_i \sim Beta(1,1)$	Amplification efficiency for species i
$\log(\gamma_{Mijt}) \sim Normal(0,4)$	True biomass of each species at each site-year
$\log(\eta_{jtk}) \sim Normal(-4,4)$	Estimated offset for each PCR reaction at each
	site-year
$ au_0 \sim Normal(0,2)$	Negative Binomial shape parameter intercept
$ au_1 \sim Normal(0,2)$	Negative Binomial shape parameter slope