## all the models

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August 17, 2018

## Contents

smaller models to build:

Genus	species	cities	climate predictors	heteroskedasticity	b0	data
none	single	single	none	no	b0 ~ 1	y ~ 100*b0 * (1 - ex
none	single	single	none	yes	b0 ~ 1	$y \sim 100*b0 * (1 - ex$
none	many	single	none	no	b0 ~ (1   Species)	y ~ 100*b0 * (1 - ex
many	many	single	none	no	b0 ~	y ~ 100*b0 * (1 - ex
many	many	single	none	yes		y ~ 100*b0 * (1 - ex
none	single	many	none	no		y ~ 100*b0 * (1 - ex
none	single	many	on $\beta_0$	no		y ~ 100*b0 * (1 - ex
none	single	many	none	yes		y ~ 100*b0 * (1 - ex
none	single	many	on $\beta_0$	yes		y ~ 100*b0 * (1 - ex
many	many	many	on $\beta_0$	no		y ~ 100*b0 * (1 - ex
many	many	many	on $\beta_0$	yes		y ~ 100*b0 * (1 - ex

build up to the full model, then test relaxing some of the effects on the different betas

Genus species cities climate predictors heteroskedasticity data b0 b1 b2 sigma formula