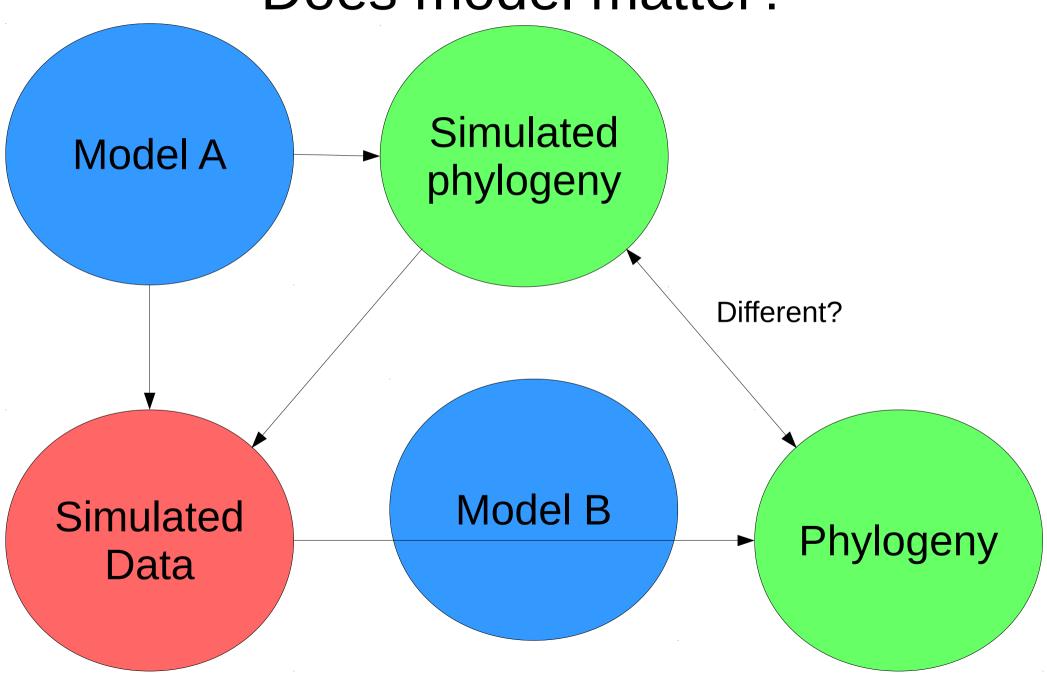
Tree priors

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Does model matter?



Tree priors

	Name	When use it?
Y	Yule	No extinction, complete sampling, commonly used
CY	Corrected Yule	
CRBD	Constant-rate Birth-Death	Yule with extinction and incomplete samping
CCP	Coalescent Constant Population	Small sample of large population, population at equilibrium
CEP	Coalescent Exponential Population	Small sample of large population, population just founded
CBS	Coalescent Bayesian Skyline	
CEBS	Coalescent Extended Bayesian Skyline	

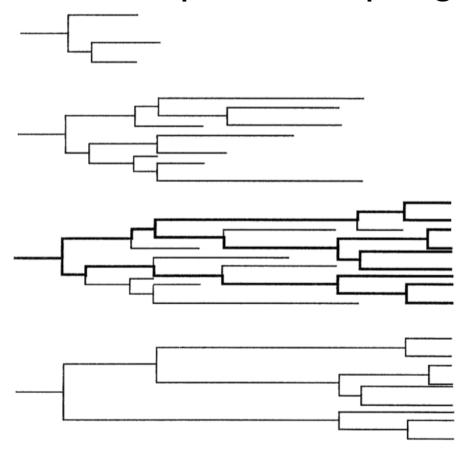
Yule model

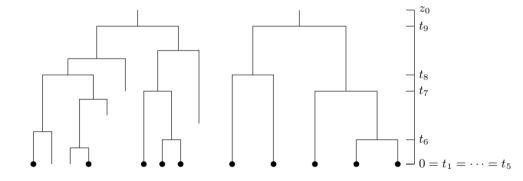
- No extinction
- Complete sampling

Calibrated Yule model

Constant rate birth-death model

- Birth and death rate constant
- Incomplete sampling





AJ Drummond and RR Bouckaert, 2014

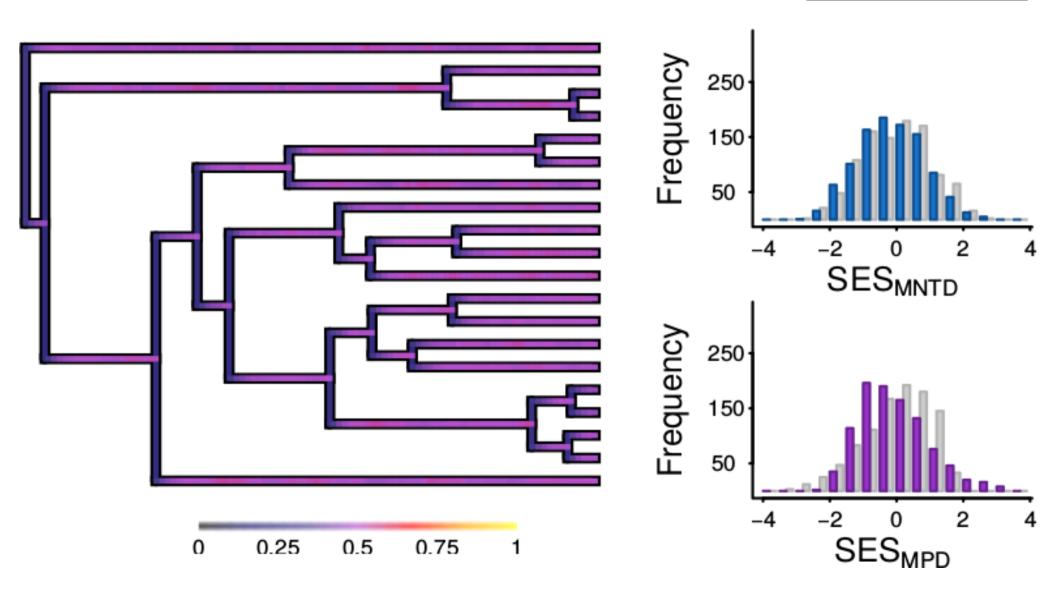
Coalescent constant population model

Coalescent exponential population model

Random-draw

DAMOCLES

Does model matter?

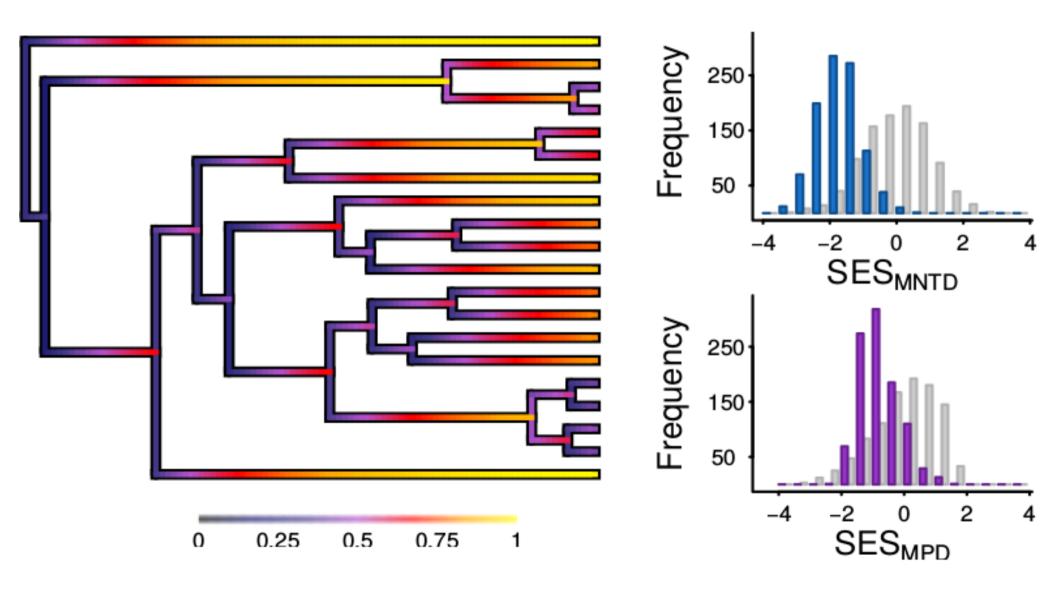


High extinction rate

A Pigot & RS Etienne, 2015

Random-draw DAMOCLES

Does model matter?



Low extinction rate

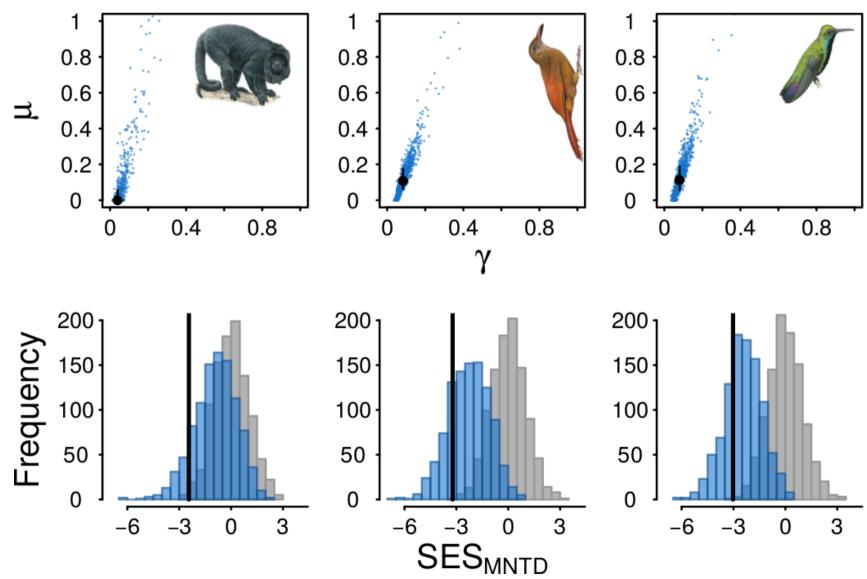
A Pigot & RS Etienne, 2015

Does model matter?

Random-draw

DAMOCLES

Observed



A Pigot & RS Etienne, 2015