

Code	Description	Covariates	Formula
C	Constant effects, no historical covariates	Geographic range, temperature	event \sim range + temp + (1 age/phylum)
V	Varying effects, no historical cov.	Geographic range, temperature	event \sim range + temp + (1 + range + temp phylum) + (1 age/phylum)
CP	Constant effects, historical cov.	Geographic range, change in geographic range, temperature, previous temperature	event \sim range + range.diff + temp + temp.lag + (1 age/phylum)
VP	Varying effects, historical cov.	Geographic range, change in geographic range, temperature, previous temperature	event \sim range + range.diff + temp + temp.lag + (1 + range + range.diff + temp + temp.lag phylum) + (1 age/phylum)