

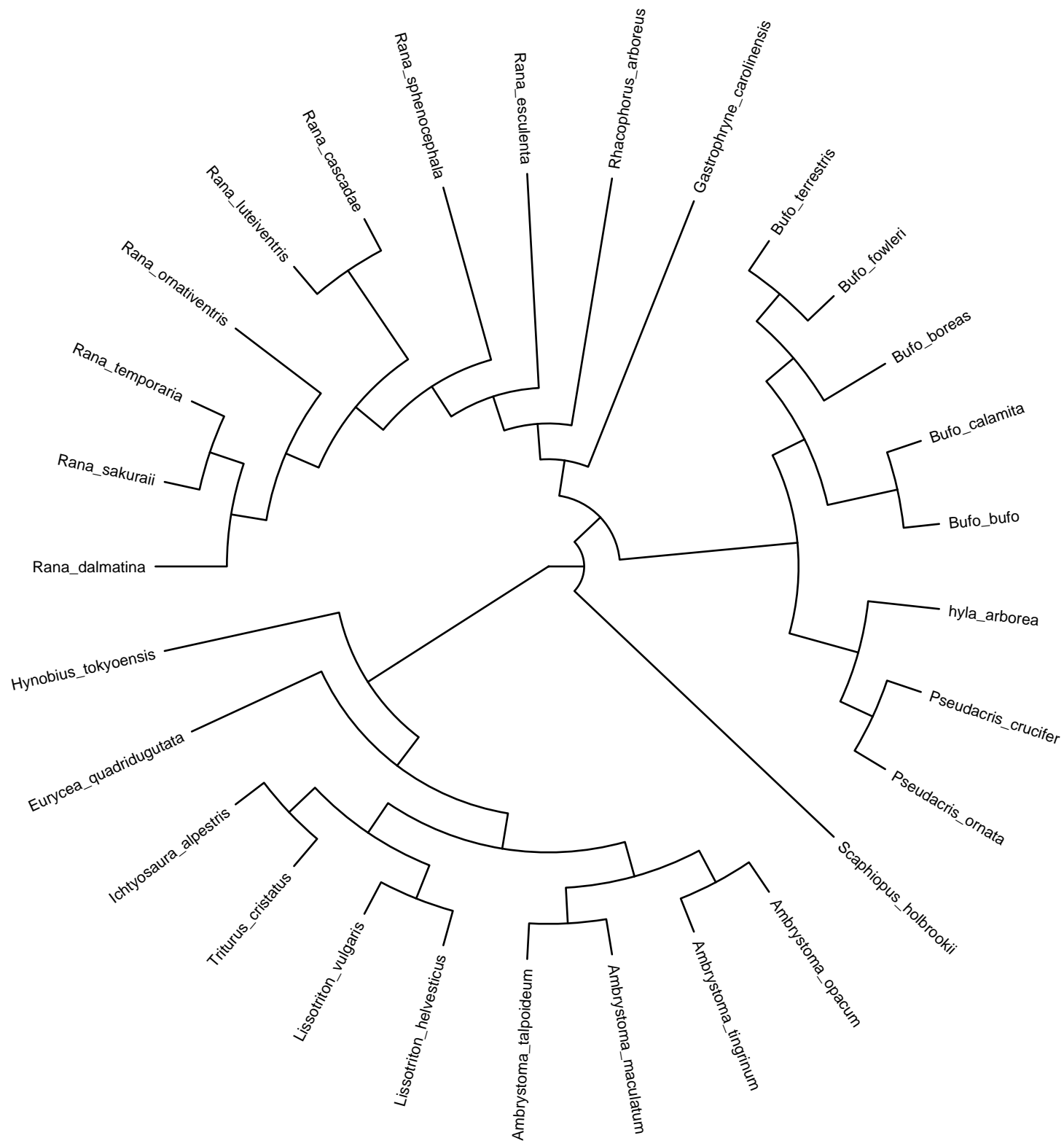
Ecography

ECOG-00521

While, G. M. and Uller, T. 2014. Quo vadis amphibia?
Global warming and breeding phenology in frogs,
toads and salamanders. – Ecography doi: 10.1111/
ecog.00521

Supplementary material

2aaV_UZ "



Appendix 2

Table A1. Estimates from phylogenetic Bayesian mixed-effects meta-regression analysis of the advancement of amphibian breeding phenology over time. The table show details for the model with both latitude and temperature change (DIC = 3.3; species heterogeneity = 0.96%, phylogeny heterogeneity = 0.69%). (SD: standard deviation of a parameter estimate, CI: credibility interval).

Fixed effects	Posterior mode	Posterior mean (SD)	Lower CI	Upper CI
Intercept	-0.12	-0.11 (0.203)	-0.516	0.274
Latitude	-0.12	-0.15 (0.105)	-0.359	0.056
Temperature Change	-0.10	-0.12 (0.083)	-0.269	0.061
Precipitation Change	0.08	0.09 (0.062)	-0.027	0.217
Average breeding date	0.00	0.02 (0.092)	-0.161	0.193
Breeding biology (Δ between Protracted and Explosive)	-0.33	-0.33 (0.191)	-0.724	0.021
Body size	-0.07	-0.08 (0.100)	-0.269	0.118
Breeding metric (Δ between Arrival and Spawn)	-0.13	-0.10 (0.194)	-0.442	0.309
Habitat breadth (Δ between High and Low)	-0.13	-0.21 (0.222)	0.634	0.235

Table A2. Estimates from phylogenetic meta-analytic models of the responsiveness of amphibian breeding phenology to temperature. The table show details for separate models for each of the predictors in Model 2 in Table 3. (SD: standard deviation of a parameter estimate, CI: credibility interval, DIC: deviance information criterion).

Fixed effects	Posterior mode	Posterior mean (SD)	Lower CI	Upper CI
Model 4 (DIC = -20.3)				
Intercept	-0.65	-0.65 (0.095)	-0.458	-0.841
Latitude	-0.17	-0.15 (0.057)	-0.050	-0.273
Model 5 (DIC =-3.6)				
Intercept	-0.60	-0.62 (0.154)	-0.297	-0.919
Average breeding date	-0.02	-0.02 (0.082)	0.134	-0.171
Model 6 (DIC = -0.5)				
Intercept	-0.74	-0.70 (0.142)	-0.427	-1.01
Breeding biology (Δ between Protracted and Explosive)	0.21	0.20 (0.157)	0.491	-0.139
Model 7 (DIC = -2.0)				
Intercept	-0.64	-0.62 (0.144)	-0.328	-0.898
Body size	-0.08	-0.03 (0.075)	0.119	-0.170
Model 8 (DIC = 0.6)				

Intercept	-0.50	-0.51 (0.138)	-0.239	-0.800
Breeding metric (Δ between Arrival and Spawn)	-0.23	-0.22 (0.133)	0.048	-0.472

Model 9 (DIC = -7.0)

Intercept	-0.62	-0.60 (0.180)	-0.229	-0.952
Habitat breadth (Δ between Low and High)	-0.06	-0.05 (0.156)	0.253	-0.364

Model 10 (DIC = 3.9)

Intercept	-0.60	-0.62 (0.139)	-0.357	-0.886
Location temperature range	0.06	0.02 (0.054)	0.121	-0.092