SUPPLEMENTARY MATERIAL

Phylogeny and morphology determine vulnerability to global warming in *Pristimantis* frogs

Pamela González-del-Pliego[a,b]*, Robert P. Freckleton[a], Brett R. Scheffers[c], Edmund W. Basham[c,d] , Andrés R. Acosta-Galvis[e], Claudia A. Medina Uribe[e], Torbjørn Haugaasen[f], David P. Edwards[a]

[a]Ecology and Evolutionary Biology, School of Biosciences, University of Sheffield, S10 2TN, UK. [b]Rui Nabeiro Biodiversity Chair, MED Institute, Universidade de Évora, Évora, Portugal [c]Department of Wildlife Ecology & Conservation, Newins-Ziegler Hall, University of Florida/IFAS, Gainesville, FL 32611, USA. [d]Department of Geography, University of Sheffield, S10 2TN, UK. [e]Instituto de Investigación de Recursos Biológicos Alexander von Humboldt, Bogotá Calle 28A # 15-09, Colombia. [f]Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences, 1432 Ås, Norway.
*pgonzalezdelpliego@gmail.com

This supplement contains:

Supplementary Table S1 – S2

Table S1. Total number of individuals collected per species and habitat type. CP: cattle pasture; YSF: young secondary forest; OSF: old secondary forest; PF: primary forest. Asterisks indicate the species used in the main manuscript.

	CP	YSF	OSF	PF
*P. achatinus**	13	0	0	0
P. baiotis	0	0	1	0
P. brevifrons	0	0	1	2
*P. calcaratus**	0	0	0	15
*P. erythropleura**	6	12	1	0
*P. juanchoi**	0	0	4	7
P. kelephus	0	0	0	6
P. myops	0	0	1	1
*P. orpacobates**	0	20	13	21
P. ptochus	0	0	1	5
*P. quantus**	0	0	8	32
*P. zophus**	0	3	8	41
Total number of individuals	19	35	38	130

Table S2. Summary of linear mixed effect model of environmental and phylogenetic factors on CT_{max} variation with full dataset (12 species of frogs and 222 individuals; see Table S1).

		value (se)	z	p
Fixed	Cattle pasture (Intercept)	20.43 (4.45)	4.59	<0.001
	Young secondary forest	0.19 (0.76)	0.25	0.80
	Old secondary forest	0.62 (1.04)	0.60	0.55
	Primary forest	0.78 (1.08)	0.73	0.47
	Elevation	-0.0007 (0.001)	-0.44	0.66
	Max temperature	0.019 (0.11)	0.17	0.87
	Climatic niche breadth	0.045 (0.11)	0.39	0.70
	SVL (body size)	1.39 (0.27)	5.08	**<0.001**
Random			Std Dev	Variance
	Phylogenetic signal (V)		0.62	**0.38**
	Variation in species means (S)		0.19	0.037
	Error variance (I)		0.22	0.04