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Wildlife Research

Supplementary Material

The toad less travelled: comparing life histories, ecological niches, and potential habitat of Asian black-spined toads and cane toads

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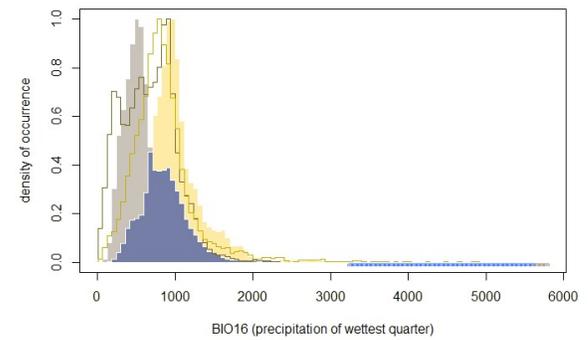
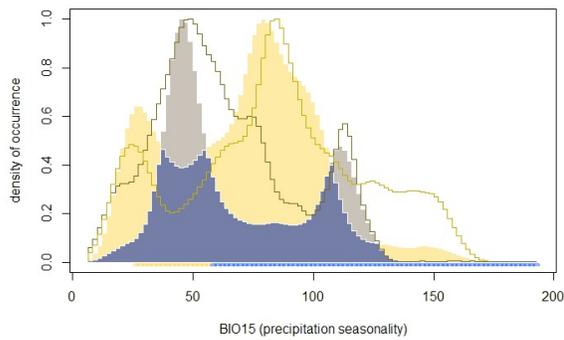
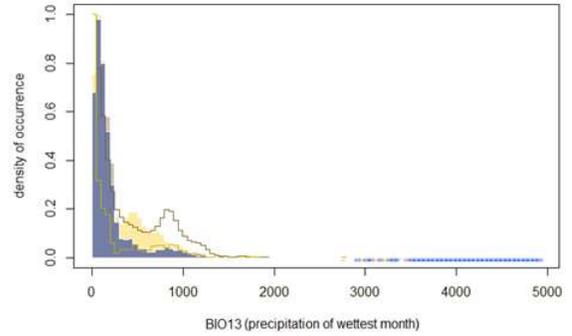
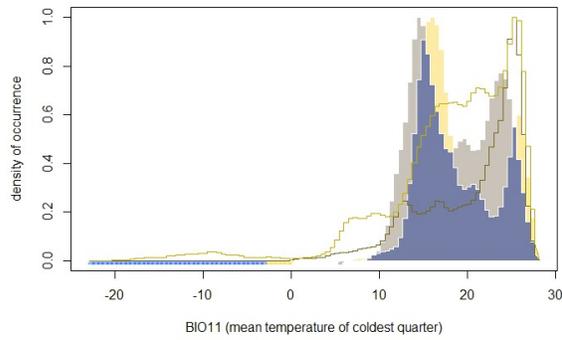
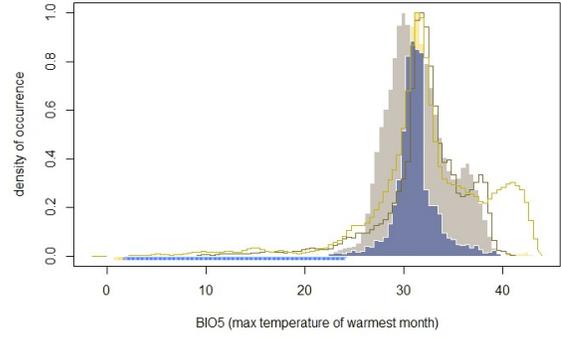
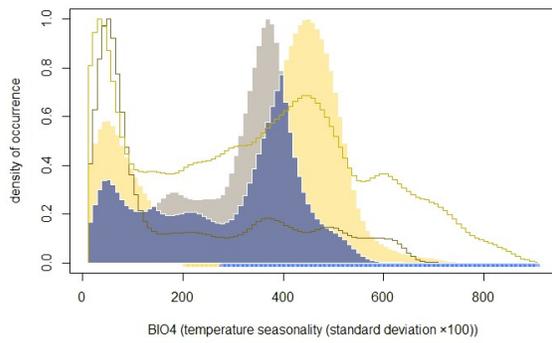
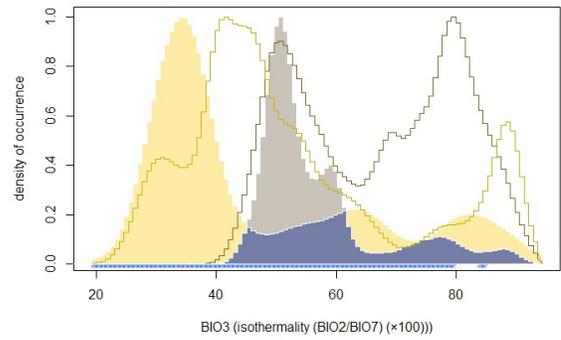
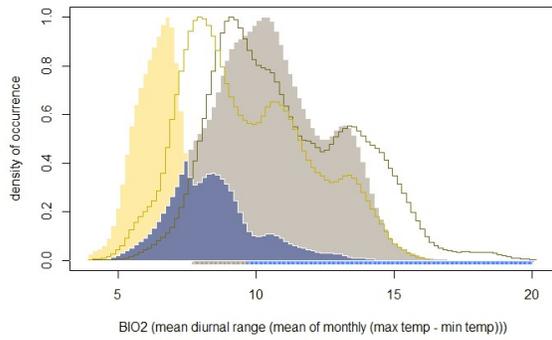
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Table S1. Environmental variables from BIOCLIM dataset and those that were selected for MaxEnt and niche modelling for Asian black-spined toads and cane toads.

	Used in analyses	BIOCLIM	Units
Bio1		Annual Mean Temperature	°C
Bio2	Y	Mean Diurnal Range	°C
Bio3	Y	Isothermality $[(\text{Bio2}/\text{Bio7}) * 100]$	%
Bio4	Y	Temperature Seasonality	°C
Bio5	Y	Max Temperature of Warmest Month	°C
Bio6		Min Temperature of Coldest Month	°C
Bio7		Temperature Annual Range	°C
Bio8		Mean Temperature of Wettest Quarter	°C
Bio9		Mean Temperature of Driest Quarter	°C
Bio10		Mean Temperature of Warmest Quarter	°C
Bio11	Y	Mean Temperature of Coldest Quarter	°C
Bio12		Annual Precipitation	mm
Bio13	Y	Precipitation of Wettest Month	mm
Bio14		Precipitation of Driest Month	mm
Bio15	Y	Precipitation Seasonality (Coefficient of Variation)	mm
Bio16	Y	Precipitation of Wettest Quarter	mm
Bio17	Y	Precipitation of Driest Quarter	mm
Bio18	Y	Precipitation of Warmest Quarter	mm
Bio19		Precipitation of Coldest Quarter	mm



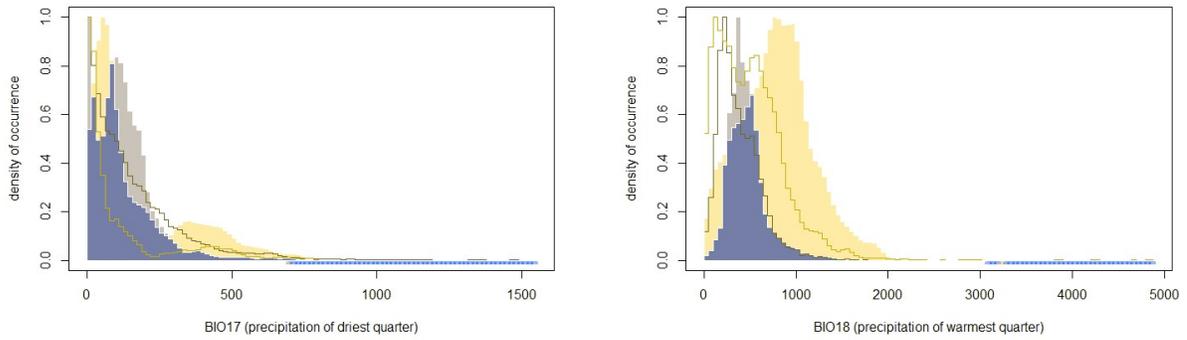


Figure S1. Asian black-spined toad (yellow) and cane toad (dark brown) niche occupancy profiles for each variable. Purple represents the overlap between the two ranges. Overlapping peaks indicate similar variable tolerances. Tan solid lines represent 100% of available space in the Asian black-spined toad's range (sans Australia) and dark brown represents 100% of the available space in the cane toad's range. Descriptions of variables used, including units, found in Table 1.

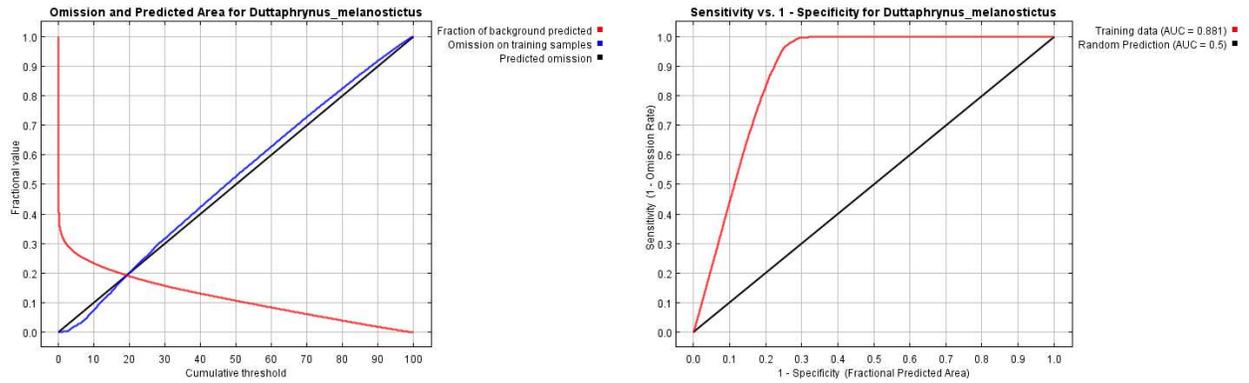


Figure S2. Maxent output curves for Asian black spined toad. On the left represents the omission rate and predicted area as a function of the cumulative threshold and on the right represents the receiver operating characteristic (ROC) curve for the same data. The AUC value for each ROC curve is presented on the top right of each plot.

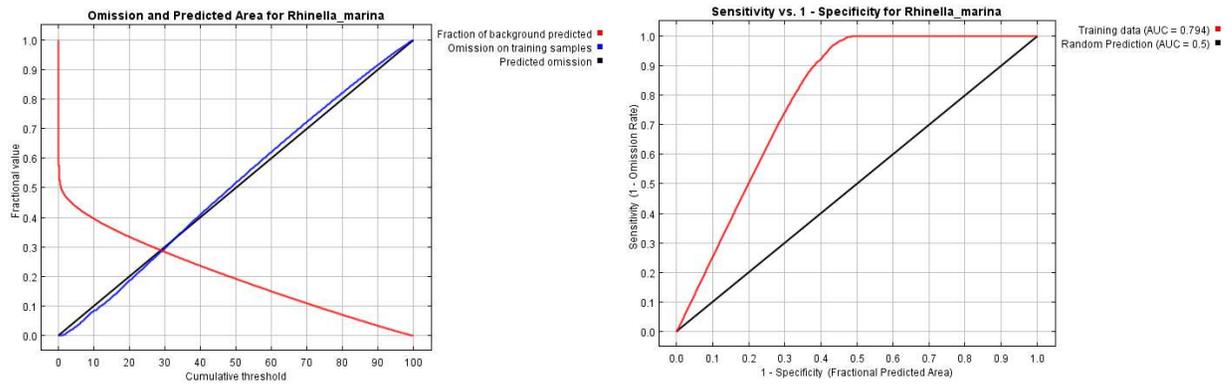


Figure S3. Maxent output curves for cane toad. On the left represents the omission rate and predicted area as a function of the cumulative threshold and on the right represents the receiver operating characteristic (ROC) curve for the same data. The AUC value for each ROC curve is presented on the top right of each plot.