

**Table S1.** Model selection results for all fitted generalized linear models used to estimate trends in predator-prey REM studies and predator-prey REM density estimates. Models were fitted to each response variable (number of studies or number of density estimates) that followed Poisson or negative-binomial distributions and estimates were produced from the most supported models based on Akaike's Information Criterion corrected for small sample size ( $AIC_c$ ).

Models	df <sup>a</sup>	LL <sup>b</sup>	AIC <sub>c</sub>	ΔAIC <sub>c</sub> <sup>c</sup>
No. Studies Across Time				
Poisson(Studies) ~ β <sub>0</sub> + β <sub>1</sub> (Year)	2	-14.05	33.00	0.00
Neg-Binomial(Studies) ~ β <sub>0</sub> + β <sub>1</sub> (Year)	3	Did not converge		
No. Density Estimates Across Time				
Neg-Binomial(Densities) ~ β <sub>0</sub> + β <sub>1</sub> (Year)	3	-29.67	67.18	0.00
Poisson(Densities) ~ β <sub>0</sub> + β <sub>1</sub> (Year)	2	-62.72	130.40	63.22
No. Density Estimates Across Time and Among Camera Placements				
Neg-Binomial(Densities) ~ β <sub>0</sub> + β <sub>1</sub> (Year) + β <sub>2</sub> (Camera) + β <sub>3</sub> (Year × Camera)	7	-37.73	92.31	0.00
Poisson(Densities) ~ β <sub>0</sub> + β <sub>1</sub> (Year) + β <sub>2</sub> (Camera) + β <sub>3</sub> (Year × Camera)	6	-89.06	192.20	99.89
No. Density Estimates Across Time and Among Velocity Sources				
Neg-Binomial(Densities) ~ β <sub>0</sub> + β <sub>1</sub> (Year) + β <sub>2</sub> (Velocity) + β <sub>3</sub> (Year × Velocity)	5	-37.84	88.06	0.00
Poisson(Densities) ~ β <sub>0</sub> + β <sub>1</sub> (Year) + β <sub>2</sub> (Velocity) + β <sub>3</sub> (Year × Velocity)	4	-81.79	173.14	85.08

<sup>a</sup> Model degrees of freedom.

<sup>b</sup> Log-likelihood of model.

<sup>c</sup> Difference between  $AIC_c$  of model and  $AIC_c$  of top-ranked model.