Supplementary Materials: Identification and Density Estimation of American Martens (*Martes americana*) Using a Novel Camera-Trap Method

Alexej P.K. Sirén, Peter J. Pekins, Peter L. Abdu and Mark J. Ducey

Table S1. GLMM describing identification probability of American martens at camera traps from 14 February–2 April 2011 and 3–19 January 2012 in northern New Hampshire, USA. Models were evaluated using AICc, ranked using ΔAICc and model weight (w_i).

Model	k	AIC_c	ΔAICc	w_i
min × elapse	5	274.8	0	1
min	3	289.2	14.44	0
elapse	3	299.3	24.5	0
martens × elapse	5	300.2	25.46	0
year:elapse	4	301.0	26.19	0
null	2	324.3	49.56	0
file type	4	325.0	50.26	0
week	3	326.0	51.24	0
martens	3	326.2	51.38	0
year	3	326.3	51.57	0
time of day	4	326.5	51.69	0
camera type	6	326.9	52.16	0

Table S2. Parameter estimates and associated standard errors (SE), Wald's z-values, and probability statistics that influenced identification probability of American martens at camera traps. Note: parameters in boldface type are significant.

Parameter	Estimate	SE	z-value	$Pr(>|z|)$
(Intercept)	2.197	0.483	4.548	0.000
elapse	**−0.344**	**0.124**	**−2.767**	**0.006**
min	**0.143**	**0.055**	**2.585**	**0.010**
elapse × min	−0.018	0.014	−1.294	0.196