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DISENTANGLING WOODLAND CARIBOU MOVEMENTS IN RESPONSE TO CLEARCUTS AND ROADS ACROSS TEMPORAL SCALES

David Beauchesne [1], Jochen A.G. Jaeger [2] & Martin-Hugues St-Laurent [3*]

[1] Concordia University, Department of Geography, Planning and Environment & Centre for Northern Studies, 1455 de Maisonneuve W., H 1255-26 (Hall Building), Montréal (Québec), Canada, H3G 1M8.

[2] Concordia University, Department of Geography, Planning and Environment, 1455 de Maisonneuve W., H 1255-26 (Hall Building), Montréal (Québec), Canada, H3G 1M8.

[3] Université du Québec à Rimouski, Centre for Northern Studies & Centre for Forest Research, Département de Biologie, Chimie et Géographie, 300, allée des Ursulines, Rimouski (Québec), Canada, G5L 3A1.

[*] Corresponding author: Email: martin-hugues_st-laurent@uqar.ca; Phone: 1 (418) 723-1986 # 1538; Fax: 1 (418) 724-1849.

Files included

- Spring_day.txt
- Spring_daynight.txt
- Spring_night.txt
- Calving_day.txt
- Calving_daynight.txt
- Calving_night.txt
- Summer_day.txt
- Summer_daynight.txt
- Summer_night.txt
- Rut_day.txt
- Rut_daynight.txt
- Rut_night.txt
- EarlyWinter_day.txt
- EarlyWinter_daynight.txt
- EarlyWinter_night.txt
- LateWinter_day.txt
- LateWinter_daynight.txt
- LateWinter_night.txt

All these files have an identical structure and constitute a subset of a larger dataset and hence can be merged. Included in them is a description of observed and random steps in relation to environmental and anthropogenic variables (Table 1) that were used to explain relative movement probabilities of 49 female caribou using conditional logistic regressions. Refer to methodology presented in the manuscript for further information or contact the corresponding author.

Table 1. Description of variables contained in the 18 datasets presented and considered in the conditional logistic regressions explaining caribou relative movement probabilities in relation to disturbances for 49 female caribou in Saguenay – Lac-Saint-Jean (Québec, Canada) between 2004 and 2010.

Group	Variable (manuscript)	Variable (datasets)	Description	Unit
Elevation	ElevVar	TOPOVAR	Elevation difference between beginning and end of the step	Kilometer
(Elev)	ElevMoy	TOPOMOY	Mean step elevation	Kilometer
Clearcuts	Cut05	P_CUT05	Proportion of 0-5 year-old clearcuts under the step	Proportion
(Cut)	$Cut05^2$	P_CUT052	Quadratic term for Cut05	$Proportion^2$
	Cut620	P_CUT620	Proportion of 6-20 year-old clearcuts under the step	Proportion
	$Cut620^2$	P_CUT6202	Quadratic term for Cut620	$Proportion^2$
	Regen	P_REGEN	Proportion of regenerating stands (21-40 years old) under the step	Proportion
	$Regen^2$	P_REGEN2	Quadratic term for Regen	$Proportion^2$
Cross_Edge	$Cross_{05}$	CR05	Number of 0-5 year-old clearcut edge crossings	Number
(Cr_Ed)	$Cross_{620}$	CR620	Number of 6-20 year-old clearcut edge crossings	Number
	$Cross_{RGN}$	CRRGN	Number of regenerating stand (21-40 years old) edge crossings	Number
	$Dens_{05}$	DENS05	Density of 0-5 year-old clearcut edge around the beginning of the step	Number / $kilometer^2$
	$Dens_{620}$	DENS620	Density of 6-20 year-old clearcut edge around the beginning of the step	Number / $kilometer^2$
	$Dens_{RGN}$	DENSRGN	Density of regenerating stand (21-40 years old) edge around the beginning of the step	Number / $kilometer^2$
Cross_Roads	Roa12	CRRD12	Number of major road (classes 1 and 2) crossings	Number
(Cr_Rd)	Roa34	CRRD34	Number of minor road (classes 3 and 4) crossings	Number
	Dens12	RDDS12	Density of major roads around the beginning of the step	Number / $kilometer^2$

	Dens34	RDDS34	Density of minor roads around the beginning of the step	Number / kilometer^2
Dist_Roads (Dt_Rd)	Dvar12	DVAR12KM	Difference of distance to closest major road between the beginning and end of the step	Kilometer
	Dvar34	DVAR34KM	Difference of distance to closest minor road between the beginning and end of the step	Kilometer
Other	-	RECNOCAR	Unique ID defining each strata in the analysis (i.e. combination of random and observed steps)	-
	-	TYPEID1	Binary variable differentiating observed and random steps (1=observed; 0=random)	-
	-	FAKETIME	Dummy variable required for the conditional regression	-
	-	JNDEP	Time of day (J=Day; JN=Dusk/dawn; N=Night)	-
	-	COLLIER3	Combination of random factors used in the analysis (i.e. individual and year)	-