S3 Table. Coefficient estimates along with their 95% confidence interval (95% CI) of mixed-effects generalized linear models with binomial distribution to predict probability of switching from encamped to travelling mode of movement, in plains bison during summer in Prince Albert National Park (SK, Canada). Each table represents estimates for a specific threshold probability (Pthreshold) used to categorized transition and non-transition from the conditional probabilities of being in encamped or travelling state, obtained from the fit of the HMM-SSF to plains bison trajectories. \tilde{d}_{wolf} was set to the actual distance between bison and wolf (d_{wolf}) when $d_{wolf} \leq d_{threshold}$ and $d_{threshold}$, otherwise.

A. Pthreshold = 0.6

Effect	Estimate	95% CI
Fixed		
Intercept	-3.26	[- 3.67 ;-2.85]
Period of day [*]		
Dawn-Dusk	0.41	[0.28 ; 0.54]
Night	-1.78	[-2.09 ; -1.47]
Meadow	-0.29	[-0.43 ; -0.16]
Wolf UD	0.17	[0.02 ; 0.32]
$ ilde{d}_{wolf}^{^\dagger}$	0.06	[-0.07 ; 0.18]
Interaction (Wolf UD, $ ilde{d}_{wolf}{}^{\dagger}$)	-0.06	[-0.11;0]
Random (variance)		
ID	0.16	

 $^{^{\}dagger}d_{threshold} = 3.2 \text{ km}$

B. Pthreshold = 0.7

Effect	Estimate	95% CI
Fixed		
Intercept	-3.53	[-4.04 ; -3.0]
Period of day*		
Dawn-Dusk	0.41	[0.24 ; 0.58]
Night	-1.93	[-2.35 ; -1.51]
Meadow	-0.38	[-0.56 ; -0.20]
Wolf UD	0.20	[0.01; 0.38]

$ ilde{d}_{wolf}{}^{\dagger}$	-0.01	[-0.17 ; 0.19] [-0.16 ; -0.01]
Interaction (Wolf UD, $ ilde{d}_{wolf}{}^{\dagger}$)	-0.09	[-0.16 ; -0.01]
,		
Random (variance)		
ID	0.12	

 $^{^{\}dagger}d_{threshold} = 2.9 \text{ km}$

C. Pthreshold = 0.8

Effect	Estimate	95% CI
Fixed		
Intercept	-2.23	[-3.46 ; -1.0]
Period of day [*]		
Dawn-Dusk	0.36	[0.13 ; 0.58]
Night	-2.25	[-2.89 ; -1.61]
Meadow	-0.54	[-0.79 ; -0.29]
Wolf UD	-0.29	[-0.89 ; 0.31]
$ ilde{d}_{wolf}{}^{\dagger}$	-1.73	[-2.96 ; -0.50]
Interaction (Wolf UD, $ ilde{d}_{wolf}{}^{\dagger}$)	0.28	[-0.34 ; 0.91]
Random (variance)		
ID	0.06	

^{*}reference category is day† $d_{threshold} = 1.0 \text{ km}$