

Supplementary Data S1. Univariate analyses results for male and female leopard occurrence probability at fine (Within home range), and large scale (Outside home range) analyses with the validation and training data ROC, BIC and SE of Beta estimate. Variables include: human population density (population), distance to towns (Towns), distance to Protected Areas (PA), distance to farms (Farms), livestock density per km² (Livestock), Slope, distance to rivers (Rivers), Elevation (Elev), distance to roads (Roads), distance to male leopard home range centres (Males), distance to female home range centres (Females).

		Within Home Range						Outside Home Range					
		ROC			ROC			ROC			ROC		
Leopards	Variable	Validation	Training	BIC	Intercept	Estimate	SE	Validation	Training	BIC	Intercept	Estimate	SE
Males	Population	0,434	0,439	62450,91	-1,2700	-0,0020	0,0005	0,653	0,647	63507,03	-1,1475	-0,0172	0,0005
	Towns	0,595	0,595	61667,76	-0,9100	-0,0250	0,0009	0,494	0,494	65037,30	-1,3750	0,0015	0,0007
	PA	0,501	0,505	62456,63	-1,3000	0,0090	0,0030	0,768	0,771	55879,77	-0,8500	-0,1600	0,0025
	Farms	0,512	0,510	62379,29	-1,2170	-0,0560	0,0067	0,588	0,585	64638,85	-1,5100	0,1320	0,0063
	Livestock	0,544	0,541	62160,17	-1,3400	0,0490	0,0030	0,557	0,556	64815,60	-1,3850	0,0318	0,0020
	Slope	0,545	0,537	62271,08	-1,1700	-0,0230	0,0002	0,638	0,640	63290,72	-0,9227	-0,0086	0,0002
	Rivers	0,554	0,563	62366,58	-1,1900	-0,0500	0,0046	0,522	0,527	65008,16	-1,3140	-0,0210	0,0036
	Elev	0,718	0,719	57074,84	-0,0370	0,0001	0,0000	0,579	0,577	64623,56	-0,0016	0,0003	0,0000
	Roads	0,671	0,670	59447,96	-0,7990	-0,0850	0,0015	0,551	0,558	65026,93	-1,3800	0,0059	0,0015
	Males		0,606	0,604	62091,05	-1,0960	-0,0020	0,0001	0,704	0,715	56079,00	-2,2400	0,0162
Females		0,753	0,753	55157,39	-0,7420	-0,0087	0,0001	0,769	0,762	58693,74	-0,7070	-0,0120	0,0002
Females	Population	0,564	0,563	49396,03	-1,3200	0,0070	0,0003	0,573	0,583	53522,87	-1,3100	-0,0013	0,0003
	Towns	0,544	0,546	49710,51	-1,3400	0,0090	0,0007	0,610	0,613	51789,32	-1,7830	0,0340	0,0009
	PA	0,600	0,605	45669,93	-1,4500	0,2800	0,0050	0,726	0,729	48520,90	-0,9550	-0,1140	0,0021
	Farms	0,512	0,498	49828,40	-1,1400	-0,0580	0,0076	0,562	0,565	53471,24	-1,2800	-0,0360	0,0043
	Livestock	0,603	0,605	47628,23	-1,3700	0,1130	0,0024	0,574	0,567	50897,50	-1,4850	0,1080	0,0020
	Slope	0,548	0,550	49681,57	-1,0530	-0,0030	0,0002	0,545	0,540	53378,75	-1,2130	-0,0027	0,0002
	Rivers	0,626	0,620	48606,00	-0,8900	-0,1700	0,0050	0,639	0,640	51370,48	-1,0090	-0,1667	0,0041
	Elev	0,567	0,568	49420,77	-0,9577	-0,0004	0,0000	0,594	0,594	53131,29	-1,5100	0,0004	0,0000
	Roads	0,546	0,548	49720,53	-1,0900	-0,0380	0,0030	0,669	0,667	50317,14	-0,9020	-0,1180	0,0023
	Males		0,525	0,522	49833,68	-1,2490	0,0002	0,0000	0,681	0,689	51178,87	-0,8800	-0,0160
Females		0,671	0,676	48059,20	-0,7160	-0,0090	0,0002	0,562	0,566	52983,28	-1,5500	0,0055	0,0002