

Appendix 1.

Name of the camera	Location	Environment
CM1	37° 55' 11.6"; 57° 49' 28.3"	Acacia forest
CM2	37° 55' 17.5"; 57° 49' 29"	Acacia forest
CM4	37° 55' 17.9"; 57° 49' 20.7"	Acacia forest
CM5	37° 55' 31.4"; 57° 49' 20"	Acacia forest
CM6	37° 55' 5.3"; 57° 49' 25"	Acacia forest
CM7	37° 55' 32.2"; 57° 49' 2.3"	Grassland/Schrubland
CM8	37° 55' 29.8"; 57° 49' 10.4"	Grassland/Schrubland
CM9	37° 55' 29.1"; 57° 49' 17.2"	Grassland/Schrubland
CMN1	37° 54' 49.0"; 57° 49' 11.2"	Acacia forest
CMN2	37° 54' 46.8"; 57° 49' 14.1"	Grassland/Schrubland
CMN3	37° 55' 8.1"; 57° 49' 7.1"	Grassland/Schrubland
CMN4	37° 54' 56.7"; 57° 49' 7.4"	Grassland/Schrubland
CMN5	37° 55' 4.3"; 57° 49' 9.4"	Acacia forest
CMN6	37° 54' 47.6"; 57° 49' 12.5"	Grassland/Schrubland
CMN7	37° 54' 43.6"; 57° 49' 19.9"	Grassland/Schrubland
CMN8	37° 54' 50.8"; 57° 49' 9.8"	Acacia forest

Appendix 2.

Season	Date (MM/DD/YYYY)	Sunrise	Sunset
Winter	08/08/2022	07:46 AM	06:06 PM
Winter	08/12/2022	07:39 AM	06:12 PM
Spring	10/22/2022	05:51 AM	07:17 PM
Spring	11/06/2022	05:37 AM	07:30 PM
Spring	12/12/2022	05:21 AM	08:06 PM
Spring	12/22/2022	05:24 AM	08:12 PM
Summer	03/08/2023	06:41 AM	09:20 PM
Summer	03/16/2023	06:48 AM	07:08 PM
Autumn	05/05/2023	07:34 AM	05:58 PM
Autumn	05/23/2023	07:50 AM	05:43 PM

Table showing the sunrise and sunset times for Mar del Plata, provided by the National Service of Naval Hydrography, on the start and end dates of each campaign. Data sourced from: <http://www.hidro.gov.ar/observatorio/sol.asp>.

Appendix 3.

Table S1. Results of models testing the effects of season and vegetation cover on the number of counts for Pampas gray fox data analysis within 20-meter and 50-meter radii.

	Predictor	Estimate	SE	z value	p-value
Radius of 20 meters	(Intercept)	-3.788	0.136	-27.96	< 0.001
	Season (spring)	0.836	0.150	5.56	< 0.001
	Season (summer)	-0.146	0.205	-0.71	0.476
	Shrub cover	0.0077	0.0019	4.14	< 0.001
	Grass cover	-0.0107	0.0028	-3.86	< 0.001
Radius of 50 meters	(Intercept)	-3.842	0.149	-25.84	< 0.001
	Season (spring)	0.788	0.181	4.34	< 0.001
	Season (summer)	-0.141	0.230	-0.61	0.541
	Open areas	0.025	0.010	2.62	0.009

Table S2. Results of the Tukey pairwise comparisons among seasons for Pampas gray fox data analysis within 20-meter and 50-meter radii.

	Contrast	Estimate	SE	z value	p-value
Radius of 20 meters	Spring – Autumn	0.838	0.152	5.50	< 0.001
	Summer – Autumn	-0.143	0.206	-0.69	0.765
	Summer – Spring	-0.981	0.195	-5.04	< 0.001
Radius of 50 meters	Spring – Autumn	0.788	0.182	4.34	< 0.001
	Summer – Autumn	-0.141	0.230	-0.61	0.812
	Summer – Spring	-0.929	0.221	-4.21	< 0.001

Table S3. Results for models testing the effects of season and vegetation cover on the number of counts for Geoffroy's cat data analysis within 20-meter and 50-meter radii.

	Predictor	Estimate	SE	z value	p-value
Radius of 20 meters	(Intercept)	-5.553	0.322	-17.27	< 0.001
Radius of 50 meters	(Intercept)	-5.708	0.541	-10.54	< 0.001
	Shrub cover	0.029	0.012	2.38	0.017
	Rock cover	-0.092	0.046	-1.99	0.046

Table S4. Results of the combined model testing the effects of species, moment of the day, and environment on counts.

Predictor	Estimate	SE	z value	p-value
(Intercept)	-8.105	0.334	-24.28	< 0.001
Species (Pampas Gray Fox)	2.020	0.237	8.51	< 0.001
Time (sunset)	0.301	0.358	0.84	0.834
Time (day)	1.298	0.336	3.86	< 0.001
Time (night)	1.966	0.328	6.00	< 0.001

Environment (grassland)	0.258	0.224	1.15	0.249
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Table S5. Results of the Tukey pairwise comparisons among moment of the day for the combined model.

Contrast	Estimate	SE	z value	p-value
Sunset – Sunrise	0.301	0.358	0.84	0.834
Day – Sunrise	1.298	0.336	3.86	< 0.001
Night – Sunrise	1.966	0.328	6.00	< 0.001
Day – Sunset	0.997	0.324	3.08	0.011
Night – Sunset	1.665	0.315	5.28	< 0.001
Night – Day	0.668	0.287	2.33	0.091

Table S6. Results of the models testing the effects of season and moment of the day for Pampas gray fox data.

Predictor	Estimate	SE	z value	p-value
(Intercept)	-3.526	0.240	-14.71	< 0.001
Season (autumn)	-0.327	0.232	-1.41	0.158
Season (spring)	0.051	0.216	0.23	0.815
Season (summer)	-0.286	0.269	-1.06	0.287
Time (sunset)	0.318	0.196	1.63	0.104
Time (day)	-0.791	0.195	-4.05	< 0.001
Time (night)	0.359	0.177	2.03	0.043

Table S7. Results of the Tukey pairwise comparisons among times of day for Pampas gray fox data.

Contrast	Estimate	SE	z value	p-value
Sunset – Sunrise	0.318	0.196	1.63	0.363
Day – Sunrise	-0.791	0.195	-4.05	< 0.001
Night – Sunrise	0.359	0.177	2.03	0.177
Day – Sunset	-1.108	0.186	-5.98	< 0.001
Night – Sunset	0.041	0.166	0.25	0.995
Night – Day	1.149	0.166	6.91	< 0.001

Table S8. Results of the models testing the effects of season and time of day for Geoffroy’s cat data.

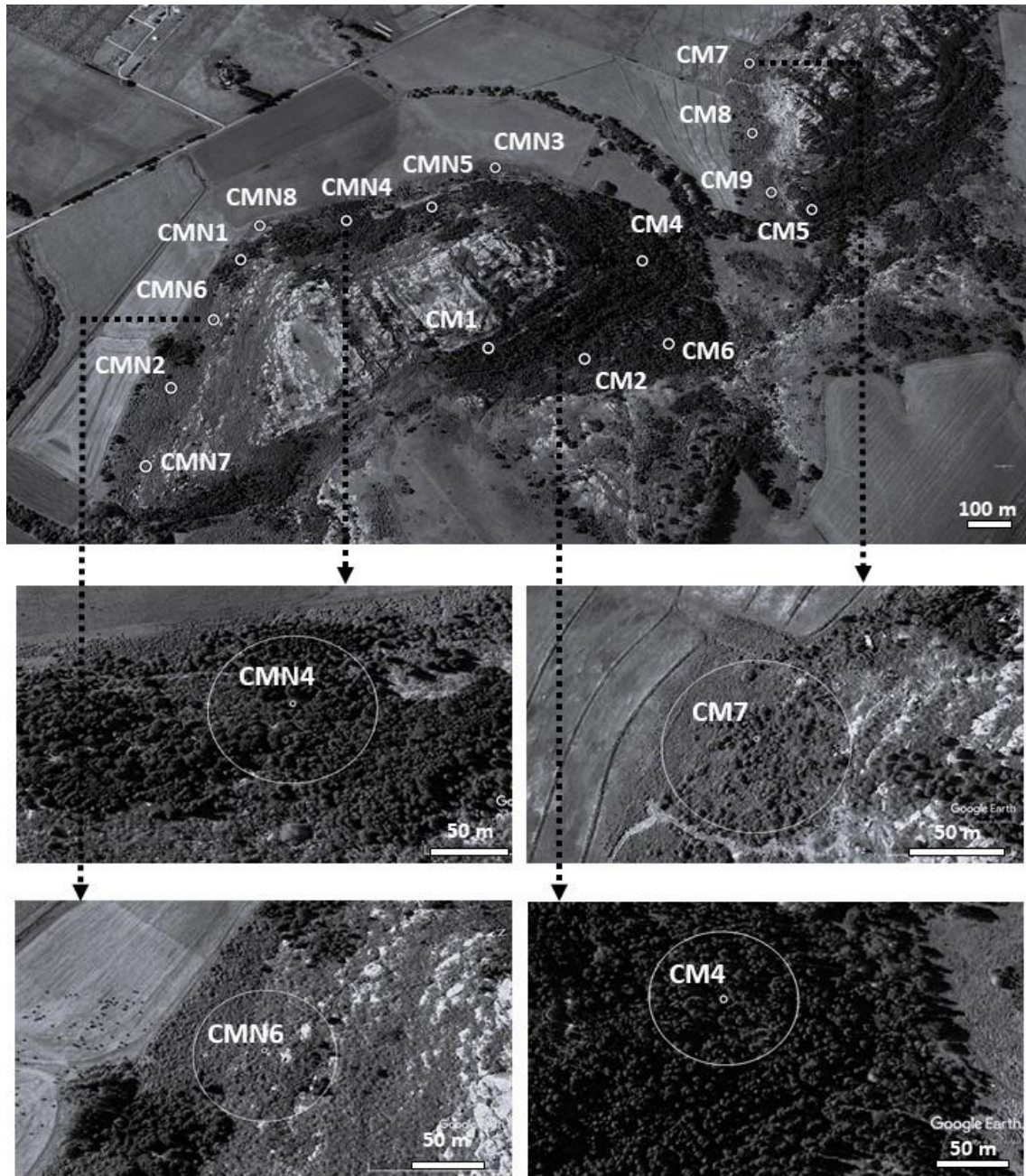
Effect	Estimate (β)	Std. Error	z value	p-value
(Intercept)	-5.2508	0.4193	-12.52	< 0.001
Season (autumn)	-1.9496	0.5700	-3.42	0.0006
Season (spring)	-0.4629	0.4149	-1.12	0.265
Season (summer)	-2.1504	0.8236	-2.61	0.0090

Habitat (grassland)	0.6870	0.3008	2.28	0.0224
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Table S9. Results of the Tukey pairwise comparisons among seasons for Geoffroy's cat data.

Contrast	Estimate	Std. Error	z value	Adjusted p
Autumn – Winter	-1.9496	0.5700	-3.42	0.0032
Spring – Winter	-0.4629	0.4149	-1.12	0.6632
Summer – Winter	-2.1504	0.8236	-2.61	0.0408
Spring – Autumn	1.4866	0.4672	3.18	0.0075
Summer – Autumn	-0.2008	0.8515	-0.24	0.9950
Summer – Spring	-1.6875	0.7563	-2.23	0.1060

Supplementary Material 1: Location of 16 camera traps deployed in spring, summer, and autumn in the hilly sector of the Paititi Private Nature Reserve (see Appendix 1). Eight camera traps were placed in acacia forest (CM1, CM2, CM4, CM5, CM6, CMN1, CMN5, CMN8) and eight in shrubland/grassland (CM7, CM8, CM9, CMN2, CMN3, CMN4, CMN6, CMN7). Enlarged views highlight CM7 and CMN6 in shrubland/grassland and CM4 and CMN4 in acacia forest. Map scale (top) = 100 m. All camera traps were spaced ≥ 100 m apart. Circles in enlarged figures represent a 100 m diameter centered on each camera. Grayscale image from Google Earth.



Supplementary Material 2: Table containing all species of mammals registered by camera trapping.

Taxon	Common name
Order Carnivora	
Family Canidae	
<i>Lycalopex gymnocercus</i>	Pampas gray fox
<i>Canis lupus familiaris</i> *	Domestic dog
Family Felidae	
<i>Leopardus geoffroyi</i>	Geoffroy's cat
Family Mephitidae	
<i>Conepatus chinga</i>	Skunk
Family Mustelidae	
<i>Galictis cuja</i>	Lesser grison
Order Didelphimorphia	
Family Didelphidae	
<i>Didelphis albiventris</i>	White-eared opossum
Family Dasypodidae	
<i>Dasyopus hybridus</i>	Long-nosed armadillo, mulita
Order Cetartiodactyla	
Family Cervidae	
<i>Axis axis</i> *	Axis deer
Family Suidae	
<i>Sus scrofa</i> *	European wild boar
Order Lagomorpha	
Family Leporidae	
<i>Lepus europaeus</i> *	European hare
Order Rodentia	
Family Cricetidae	
<i>Oxymycterus rufus</i>	Red hocicudo
Family Muridae	
<i>Rattus rattus</i> *	Common rat

Supplementary Material 3: Photos of the selected camera trap sites are displayed, showcasing shrubland/grassland in the two top pictures and acacia forest environments in the two bottom pictures.



Supplementary Material 4: Image taken by a camera trap showing a Geoffroy's cat climbing an Australian acacia tree.

