

Supporting Information S1 — Dataset summary statistics

Table S1.1: Summary statistics of the tracking data used in the analyses in the main text. Values reported are medians. N_{Area} denotes the effective sample size. In the diet column, H/F refers to Herbivorous/Frugivorous species while C/O to Carnivorous/Omnivorous species.

Species	n (individuals)	Frequency (min)	Year	Duration (Days)	n (locations)	n_{Area}	Mass (kg)	Diet	Data Source
<i>Acinonyx jubatus</i>	2	0.02	2012	19.1	104612	39.9	14.2	C/O	MovebankID: 11212867
<i>Aepyceros melampus</i>	21	20	2011	295.5	19623	147.3	52.5	H/F	(Noonan & et al., 2018)
<i>Alces alces</i>	11	60	2009	719	11400	16.6	541.46	H/F	Contributed by co-authors
<i>Antidorcas marsupialis</i>	7	60	2009	227.9	5473	26.7	31.5	H/F	(Abrahams, 2017)
<i>Antilocapra americana</i>	3	480	2002	687.5	1212	35.7	46.08	H/F	Contributed by co-authors
<i>Ateles geoffroyi</i>	3	0.02	2018	169.9	125302	46.5	5.28	H/F	MovebankID: 468460067
<i>Beatragus hunteri</i>	4	60	2014	843.7	20052.5	91	79.13	H/F	(Noonan & et al., 2018)
<i>Brachylagus idahoensis</i>	11	15	2015	13.2	218	76.1	0.42	H/F	(McMahon et al., 2017)
<i>Canis aureus</i>	2	15	2018	244.9	8141.5	1767.4	10.35	C/O	MovebankID: 637111097
<i>Canis latrans</i>	18	15	2010	210.2	10169.5	236.4	13.41	C/O	(Noonan & et al., 2018)
<i>Canis latrans</i>	25	180	2011	400.2	3046	218.1	13.41	C/O	MovebankID: 11521955
<i>Canis lupus</i>	5	15	2010	207	9608	121.6	32.18	C/O	(Noonan & et al., 2018)
<i>Canis lupus familiaris</i>	14	20	2010	15.4	955.5	466.5	12	C/O	Contributed by co-authors
<i>Canis mesomelas</i>	20	60	2009	266.5	6412.5	433.7	8.5	C/O	(Abrahams, 2017)
<i>Cebus capucinus</i>	8	0.02	2018	87.4	92418.5	103.6	2.73	C/O	MovebankID: 468460067
<i>Cercopithecus thomasi</i>	20	4.93	2012	41	8279.5	116.9	5.24	C/O	(Noonan & et al., 2018)
<i>Cervus canadensis</i>	10	120	2010	734.9	11903	36.9	200	H/F	Contributed by co-authors
<i>Chlorocebus pygerythrus</i>	11	15	2014	329.2	31406	425.6	4.99	H/F	MovebankID: 17629305
<i>Chrysocyon brachyurus</i>	13	120	2010	293.3	2565	410.3	23.25	C/O	MovebankID: 18156143
<i>Connochaetes taurinus</i>	28	60	2011	645.1	8320.5	48.2	180	H/F	MovebankID: 208413731
<i>Cuon alpinus</i>	4	360	2016	163	317	49.3	14.17	C/O	Contributed by co-authors
<i>Dasyprocta punctata</i>	1	15	2009	7.6	214	129.3	2.67	H/F	MovebankID: 8191213
<i>Didelphis virginiana</i>	1	15	2013	48.3	242	51.1	2.2	C/O	MovebankID: 11948467
<i>Elephas maximus maximus</i>	52	240	2011	514.9	2227	52.4	3750	H/F	Contributed by co-authors
<i>Elephas maximus sumatranus</i>	8	120	2014	687.8	6181.5	11.3	3000	H/F	Contributed by co-authors
<i>Equus hemionus hemionus</i>	10	13	2010	362.8	34740	2	240	H/F	Contributed by co-authors
<i>Equus quagga</i>	6	60	2010	328.5	7849	10.4	400	H/F	(Abrahams, 2017)
<i>Erinaceus europaeus</i>	14	20	2013	22.2	137.5	26.5	0.77	C/O	Contributed by co-authors
<i>Eulemur rufifrons</i>	4	30	2009	76.4	4018.5	200.9	2.25	C/O	(Noonan & et al., 2018)
<i>Euphractus sezcinctus</i>	9	5	2014	12.4	340	35.5	4.78	C/O	Contributed by co-authors
<i>Felis silvestris</i>	5	120	2014	82.6	391	93.5	5.1	C/O	MovebankID: 40386102
<i>Giraffa camelopardalis reticulata</i>	7	60	2017	229.1	5476	27.6	899.98	H/F	Contributed by co-authors
<i>Hyena brunnea</i>	9	156	2009	103.7	244	61	42.98	C/O	Contributed by co-authors
<i>Leopardus pardalis</i>	8	26	2003	346.6	279	93.8	11.9	C/O	MovebankID: 123413
<i>Lepus europaeus</i>	12	60	2014	196.3	2823.5	693.5	3.74	H/F	(Noonan & et al., 2018)
<i>Lepus timidus</i>	1	1	2009	2.6	2594	617.5	3.05	H/F	MovebankID: 2151381
<i>Loxodonta africana</i>	8	60	2009	541.7	12705	5.4	3940.03	H/F	(Abrahams, 2017)
<i>Lynx rufus</i>	1	300	2019	87.6	362	89.2	8.9	C/O	Contributed by co-authors
<i>Madoqua guentheri</i>	15	10	2011	24.9	2194	132.6	7.5	H/F	(Noonan & et al., 2018)
<i>Martes pennanti</i>	14	10	2011	21.6	1425	23.6	4	C/O	MovebankID: 2964494
<i>Nasua narica</i>	2	18	2010	27.4	600.5	34.4	4.03	C/O	(Kays & Hirsch, 2015)
<i>Nasua narica</i>	6	0.02	2017	96.6	100796.5	110.9	4.03	C/O	Movebank ID: 468460067
<i>Odocoileus hemionus</i>	1	180	2012	792.9	5196	655.6	54.21	H/F	Contributed by co-authors
<i>Odocoileus virginianus</i>	5	60	2018	380.6	9117	441.5	55.51	H/F	Contributed by co-authors
<i>Odocoileus virginianus</i>	6	61	2018	170.1	2910	194.8	55.51	H/F	Contributed by co-authors
<i>Oryx dammah</i>	49	60	2017	568.4	11323	39.2	177.5	H/F	Contributed by co-authors
<i>Ovis canadensis</i>	5	420	2006	1030.7	2808	472.6	74.64	H/F	Contributed by co-authors
<i>Panthera leo</i>	3	420	2005	627.8	396	87.7	161.5	C/O	(Noonan & et al., 2018)
<i>Panthera onca</i>	91	240	2012	184.6	615	31.4	75.7	C/O	(Morato et al., 2018)
<i>Panthera pardus pardus</i>	3	15	2014	360	21166	73.1	48.75	C/O	MovebankID: 17629305
<i>Panthera pardus saicolor</i>	5	60	2015	361.6	3632	68.8	52.04	C/O	Contributed by co-authors
<i>Papio anubis</i>	6	15	2014	306.8	26597.5	137.3	17.73	C/O	MovebankID: 17629305
<i>Papio cynocephalus</i>	21	60	2009	297.5	4098	463.8	15.82	C/O	(Noonan & et al., 2018)
<i>Pecari tajacu</i>	2	103	2016	263.6	223	68.5	21.27	C/O	Contributed by co-authors
<i>Pecari tajacu</i>	1	0.02	2016	28.9	25640	114.3	21.27	C/O	Movebank ID: 468460067
<i>Potos flavus</i>	13	0.02	2018	68.1	63592	331.3	3	H/F	Movebank ID: 468460067
<i>Procyon lotor</i>	6	30	2016	21.2	292.5	48.1	5.52	C/O	Contributed by co-authors
<i>Procyon lotor</i>	2	15	2013	31.4	1335	168.2	5.52	C/O	MovebankID: 11948467
<i>Propithecus verreauxi</i>	28	15	2013	102.7	8789	300.4	3.48	H/F	(Noonan & et al., 2018)
<i>Sus scrofa</i>	26	5	2012	56.9	5675.5	155.8	96.12	H/F	(Noonan & et al., 2018)
<i>Syncerus caffer</i>	6	60	2005	126.6	2284	14.8	580	H/F	(Cross et al., 2016)
<i>Tolypeutes matacus</i>	10	5	2012	4019	4542	61.6	1.2	C/O	Contributed by co-authors
<i>Ursus americanus</i>	17	15	2009	106.6	8608	27.3	99.95	H/F	MovebankID: 8170674
<i>Ursus arctos</i>	12	45	2014	224.3	1420.5	16.8	180.52	H/F	(Noonan & et al., 2018)
<i>Vulpes bengalensis</i>	6	179	2017	174	1429	670.5	2.73	C/O	Movebank ID: 637111097

References

Abrahams, B., 2017. Data from: Suite of simple metrics reveals common movement syndromes across vertebrate taxa. Movebank Data Repository.

Cross, P. C., J. A. Bowers, C. T. Hay, J. Wolluter, P. Buss, M. Hofmeyr, J. T. du Toit and W. M. Getz, 2016.

- Data from: Nonparameteric kernel methods for constructing home ranges and utilization distributions. Movebank Data Repository.
- Kays, R. and B. T. Hirsch, 2015. Data from: Stink or swim: techniques to meet the challenges for the study and conservation of small critters that hide, swim or climb and may otherwise make themselves unpleasant. Movebank Data Repository.
- McMahon, L. A., J. L. Rachlow, L. A. Shipley and J. S. Forbey, 2017. Data from: Evaluation of micro-GPS receivers for tracking small-bodied mammals. Movebank Data Repository.
- Morato, R. G., J. J. Thompson, A. Paviolo, J. A. de La Torre, F. Lima, R. T. McBride Jr, R. C. Paula, L. Cullen Jr, L. Silveira, D. L. Kantek et al., 2018. Jaguar movement database: a gps-based movement dataset of an apex predator in the neotropics. *Ecology* **99**(7):1691–1691.
- Noonan, M. J. and et al., 2018. Data from: A comprehensive analysis of autocorrelation and bias in home range estimation. Dryad Digital Repository.