

Supplementary Information for

The implications of large home range size in a solitary felid, the Leopard (*Panthera pardus*)

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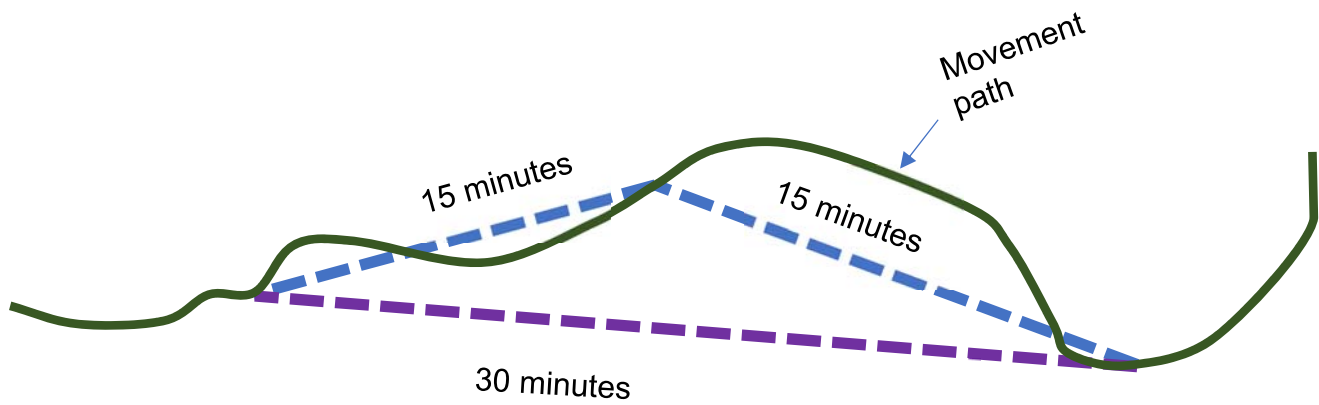
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Supp. Fig. 1. An example of classifying activity at site Namibia #4. The bars represent a histogram of net distances travelled in 15 minutes, for all animals at that site. The solid red curve shows the best fit normal mixture distribution, which combines 2 normal distributions. The vertical blue bars show the means for each normal distribution. The green vertical bar shows the threshold value, which is the minimum of the normal mixture distribution – locations to the left were classified as inactive and to the right as active.



Supp. Fig. 2: An example of tortuosity estimates for a scale of 15-30 minutes. Gross distance = lengths of the 2 15-minute intervals, net distance = length of the 30-minute interval. Tortuosity = mean (gross distance) / mean (net distance).

Appendix S1. Individual site information (country and locality) and the sample sizes for the GPS collared male and female leopards that were used in our assessment of the factors influencing home range sizes in Africa. For each site, the numbers of individuals of each sex, the dates of their location data, and interval between GPS fixes are provided.

Country	Site	Males	Females	Dates	Time between fixes (hr)
Botswana	KgalagadiSouthern	0	1	2008 - 2009	12
Botswana	Okavango Delta	4	2	2007 - 2010	2-6
Botswana	Tuli	0	3	2005 - 2007	4-24
IvoryCoast	Tai National Park	1	1	1993 - 1994	22-66
Kenya	Laikipia	0	3	2014 - 2015	0.08-0.25
Mozambique	Niassa	1	0	2008 - 2009	6
Namibia	#4	5	10	2008 - 2017	0.25-24
Namibia	#5	1	6	1996 - 2016	24-168
Namibia	#6	1	1	2013 - 2014	24
Namibia	#7	8	5	2012 - 2017	0.25
South Africa	Addo	1	0	2004 - 2005	25
South Africa	BlueCanyon	1	0	2010 - 2011	7
South Africa	Cederberg #1	2	3	2006 - 2012	3-6
South Africa	Cederberg #2	4	1	2005 - 2014	3-4
South Africa	CLTBoland	5	1	2012 - 2014	3
South Africa	Gouritz	2	0	2010 - 2012	4
South Africa	Karongwe	3	8	2001 - 2005	7-36

South Africa	Kruger National Park #1	1	1	2011 - 2012	8
South Africa	Kruger National Park #2	0	1	2012 - 2013	8
South Africa	Mkhuze	3	4	2005 - 2009	4-120
South Africa	NWProvince #1	0	1	2015 - 2015	6
South Africa	NWProvince #2	0	1	2015 - 2015	6
South Africa	NWProvince #3	0	1	2014 - 2015	6
South Africa	Phinda	11	11	2002 - 2012	4-132
South Africa	Shamwari	2	2	2003 - 2008	5-72
South Africa	Soutpansberg	3	2	2012 - 2015	3.3
South Africa	Waterberg	1	2	2004 - 2007	5
South Africa	Welgevonden	0	2	2010 - 2011	2
Zimbabwe	Bubye Valley Conservancy	6	5	2010 - 2013	6-12
Zimbabwe	Mangwe	0	1	2010 - 2010	4
Zimbabwe	Shangani	1	1	2014 - 2015	2
Total		67	80		