

Supplementary Information

Dispersal dynamics of juvenile Secretarybirds *Sagittarius serpentarius* in southern Africa

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Table S1: Summary of the outputs from Kolmogorov–Smirnov tests run between the mean hourly activity patterns per month for juvenile Secretarybirds during their post-fledging dispersal period (PFDP). These results correspond with Figure 3. Significant differences are shown in bold.

Comparison	D value	p-value
month 1 vs month 2	0.67	<0.001
month 1 vs month 3	0.79	<0.001
month 1 vs month 4	1	<0.001
month 2 vs month 3	0.33	0.14
month 2 vs month 4	0.54	0.001
month 3 vs month 4	0.46	0.01

Table S2: Comparison of the mean size and time spent in temporary vs permanent foraging home ranges (HR) during the wandering and stop phases of dispersal of 10 juvenile Secretarybirds tracked in South African between 2012 and 2015. The 95% kernel density estimate (KDE) for each foraging area was calculated.

HR type	Name	Total days spent in HR	Mean \pm SE KDE 95%	Number of different HR	Total days in natal HR	Total days tracked
Temporary	Archer	49	4.34 \pm 0.93	24	86	269
	Artemis	12	1.78 \pm 1.02	7	60	140
	BLiNG	68	11.59 \pm 4.38	32	95	625
	Kizuna	1	13.44 \pm 0.00	1	97	491
	Koffie	2	4.73 \pm 0.00	1	154	326
	Petra				94	103
	Spyker	6	55.22 \pm 52.94	2	71	79
	Strider	56	55.95 \pm 27.88	27	112	691
	Taemane	28	18.45 \pm 8.52	23	115	244
Permanent	Archer	133	69.86 \pm 56.23	5	86	269
	Artemis	67	6.42 \pm 0.00	1	60	140
	BLiNG	456	80.59 \pm 33.49	7	95	625
	Kizuna	388	84.18 \pm 29.48	10	97	491
	Koffie	149	48.29 \pm 34.66	3	154	326
	Petra	10	23.47 \pm 0.00	1	94	103
	Spyker				71	79
	Strider	509	60.79 \pm 38.13	8	112	691
	Taemane	94	13.38 \pm 9.73	2	115	244