

Supplementary Material

Supplementary Table 1. Gantt chart indicating time periods for which activity and body temperature data were obtained from each study aardvark at Tswalu between July 2012 and September 2015. ID – aardvark identity; light grey - activity data; dark grey - body temperature data; blank fields - no data available; * – logger implantation; I – death of the aardvark; Ω – logger not retrieved; # – logger failure; x – logger removal.

ID	2012					2013					2014					2015													
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
A01	*#					I																							
A02	*#					I																							
A03	*																												
A04	*																												
A05	*																												
A06	*																												
A07																													
A08																													
A09																													
A10																													
A11																													
A12																													



Supplementary Table 2. Dimensions of implanted devices.

Devices	Dimensions	Mass
VHF tracking transmitter	30 mm Ø, 110 mm length	~100 g
Temperature loggers		
iButton	~55 mm × 45 mm × 10 mm	~40 g
Star-Oddi	~15 mm Ø, 46 mm length	~20 g
Activity loggers		
Actical	~35 mm × 35 mm × 15 mm	~40 g
MLOG-AT1	~20 mm × 40 mm × 40 mm	~25 g

Supplementary Table 3. Overview of locomotor activity data recorded with biologgers in each study aardvark at Tswalu between July 2012 and May 2015. ID – aardvark identity; N days recorded – number of days during which activity was recorded; N days active – number of days each aardvark was active for ≥65 minutes; N days inactive – number of days the aardvark was inactive.

ID	N days recorded	N days active	N days inactive
<i>A01</i>	181	181	0
<i>A02</i>	227	225	2
<i>A03</i>	–	–	–
<i>A04</i>	68	65	5
<i>A05</i>	–	–	–
<i>A06</i>	227	225	2
<i>A07</i>	384	382	2
<i>A08</i>	672	672	0
<i>A09</i>	–	–	–
<i>A10</i>	34	32	2
<i>A11</i>	478	470	8
<i>A12</i>	303	301	2

Supplementary Table 4. Summary of the total numbers of emergences (N emergences recorded) and returns (N returns recorded) recorded on camera trap for each study aardvark at Tswalu over the period July 2012 to September 2015. ID – aardvark identity.

ID	N emergences recorded	N returns recorded
<i>A01</i>	–	–
<i>A02</i>	–	–
<i>A03</i>	–	–
<i>A04</i>	–	–
<i>A05</i>	–	–
<i>A06</i>	–	–
<i>A07</i>	65	6
<i>A08</i>	142	30
<i>A09</i>	86	35
<i>A10</i>	10	4
<i>A11</i>	62	28
<i>A12</i>	22	6
Total	387	109

Supplementary Table 5. Summary of 24-h body temperature data of all study aardvarks at Tswalu over the period July 2012 to September 2015. ID – aardvark identity; Period – time during which the aardvark was instrumented with a body temperature data logger; N – number of 24-h periods over which body temperature was recorded (excluding capture periods).

ID	Period	24-h body temperature (°C)			N	Died?	Circumstances of death
		minimum	maximum	maximum amplitude			
<i>A01</i>	Jul 2012 to Jan 2013	–	–	–	–	yes	drought
<i>A02</i>	Aug 2012 to Mar 2013	24.7	38.5	8.1	223	yes	drought
<i>A03</i>	Aug 2012 to Mar 2013	–	–	–	–	yes	drought
<i>A04</i>	Aug 2012 to Mar 2013	31.8	38.4	4.7	237	yes	drought
<i>A05</i>	Aug 2012 to Feb 2013	34.1	38.4	3.1	197	yes	drought
<i>A06</i>	Aug 2012 to Jul 2013	32.8	38.7	4.3	365	no	–
<i>A07</i>	Jul 2013 to Jul 2014	30.7	38.4	7.1	384	no	–
<i>A08</i>	Jul 2013 to Sep 2015	29.9	38.7	8.4	793	no	–
<i>A09</i>	Jul 2013 to Jun 2015	30.6	38.8	7.3	752	yes	winter after drought
<i>A10</i>	Jul 2013 to Aug 2013	27.6	38.3	9.3	34	yes	winter after drought
<i>A11</i>	Jul 2013 to Oct 2014	26.1	38.7	11.7	476	yes	snake bite?
<i>A12</i>	Jul 2014 to Sep 2015	34.2	38.6	3.0	420	no	–