



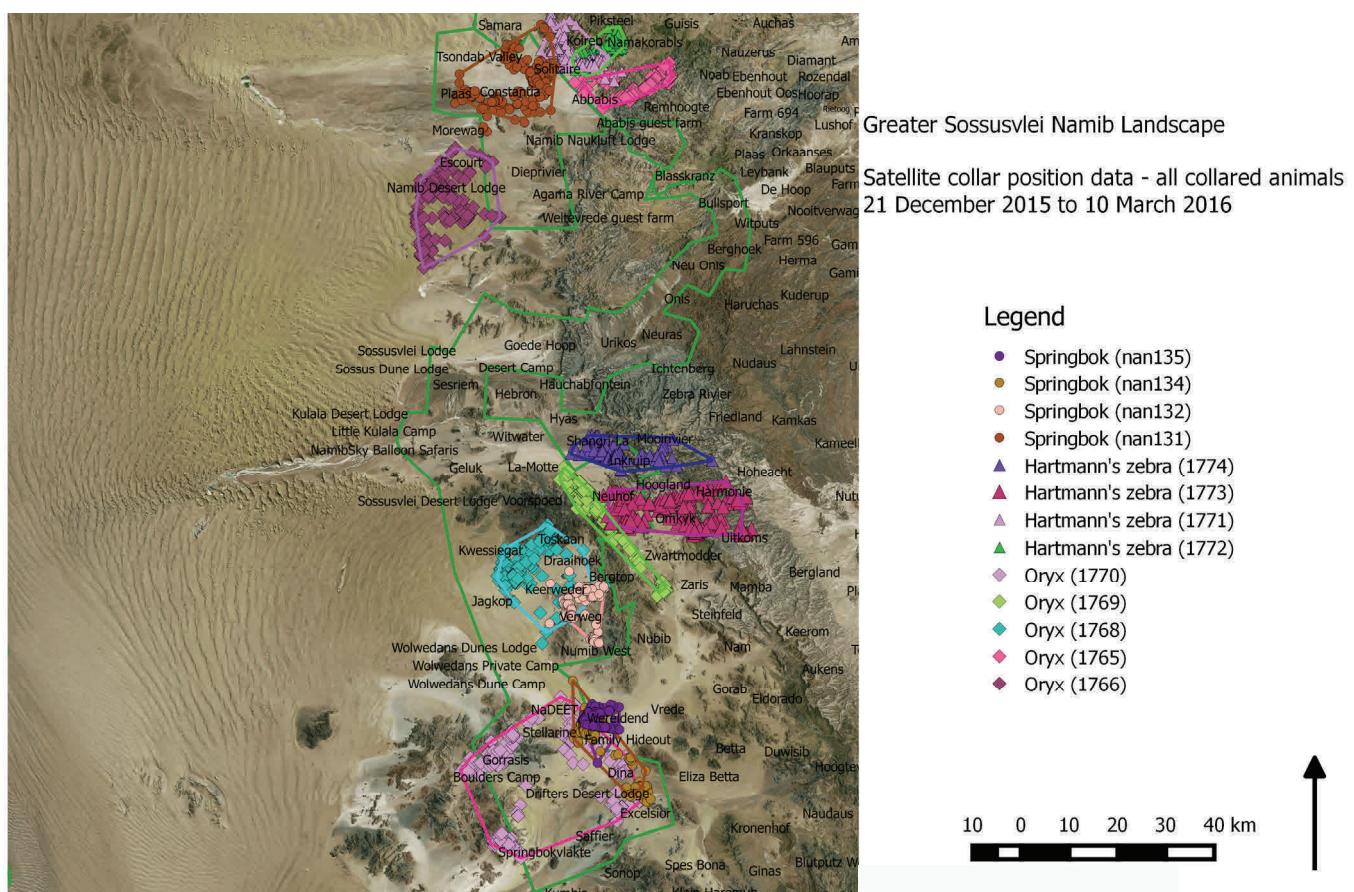
Greater Sossusvlei Namib Landscape : Tracking ungulate movements

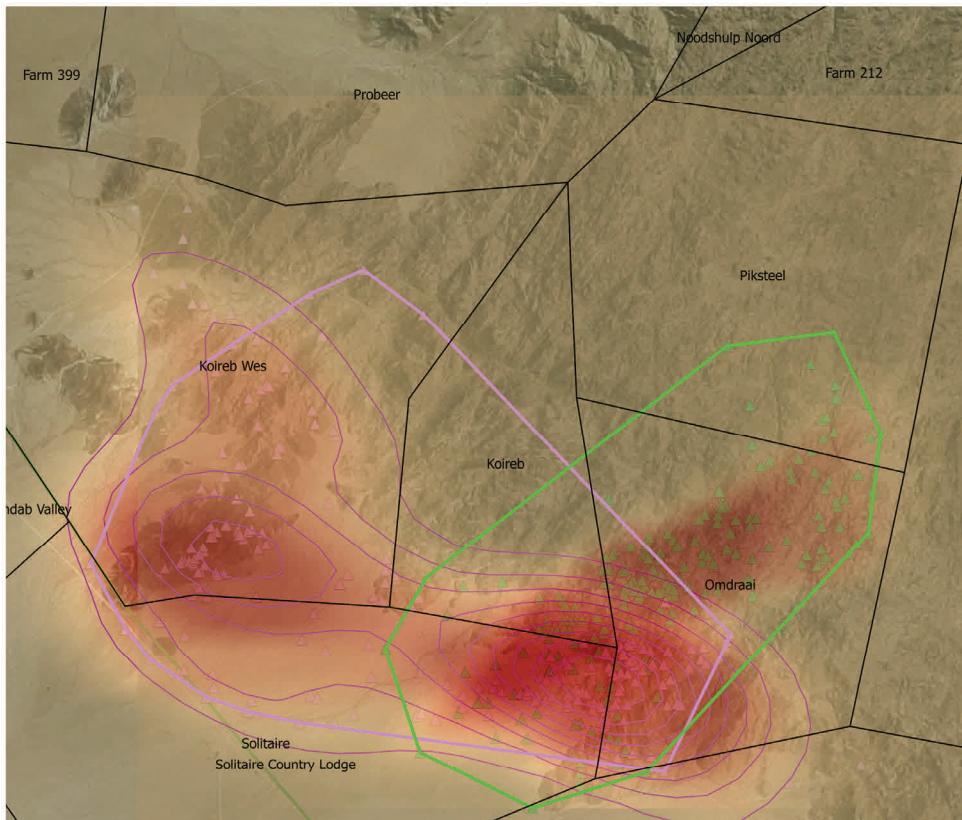
> 21 Dec–10 March

Collar id.	Animal	Collar status	Pings per day	Minimum distance	Mean daily distance	Current location	
SAT1771	H. zebra	Active	3	483.02 km	2.17 km	Solitaire	
SAT1772	H. zebra	Active	3	255.69 km	1.15 km	Solitaire	
SAT1773	H. zebra	Active	3	506.80 km	2.27 km	Harmonie	
SAT1774	H. zebra	Active	3	266.44 km	1.19 km	Theronsberg	
SAT1765	Oryx	Active	3	310.59 km	1.39 km	Ababbis	
SAT1766	Oryx	Active	3	515.87 km	2.31 km	Namib Desert Lodge	
SAT1768	Oryx	Active	3	876.90 km	3.93 km	Keerweder	
SAT1769	Oryx	Active	3	294.49 km	1.20 km	Hammerstein	
SAT1767	Oryx	Collar failed – no data					
SAT1770	Oryx	Active	3	443.43 km	1.80 km	Exelsior	
NAN131	Springbok	Active	3	376.96 km	1.53 km	Solitaire	
NAN132	Springbok	Active	3	349.25 km	1.43 km	Mortality—Caught by predator on 16 March	
NAN134	Springbok	Active	3	300.78 km	1.22 km	Exelsior	
NAN135	Springbok	Active	3	256.37 km	1.04 km	Wereldend	

Oryx 1768 in the Keerweder area covered the most distance (876.90 km—assuming a straight line between each ping). The collars have temperature sensors, the highest temperature recorded during the period was Springbok Nan 134 at 46.5 °C on 21 December in the vicinity of NaDEET.

Map of GSNL showing the movements of all collared animals (Points represent 8 hourly positions, polygons represent home ranges).





Above: The homeranges of two Hartmann's zebra showing concentrations (red shading) on two rocky outcrops and an overlap area. All Hartmann's zebra homeranges (above and below) suggest east-west movements, but month on month analyses will test this more accurately.

Greater Sossusvlei Namib Landscape

Collared animal telemetry project

Hartmann's zebra movements north-east of Solitaire

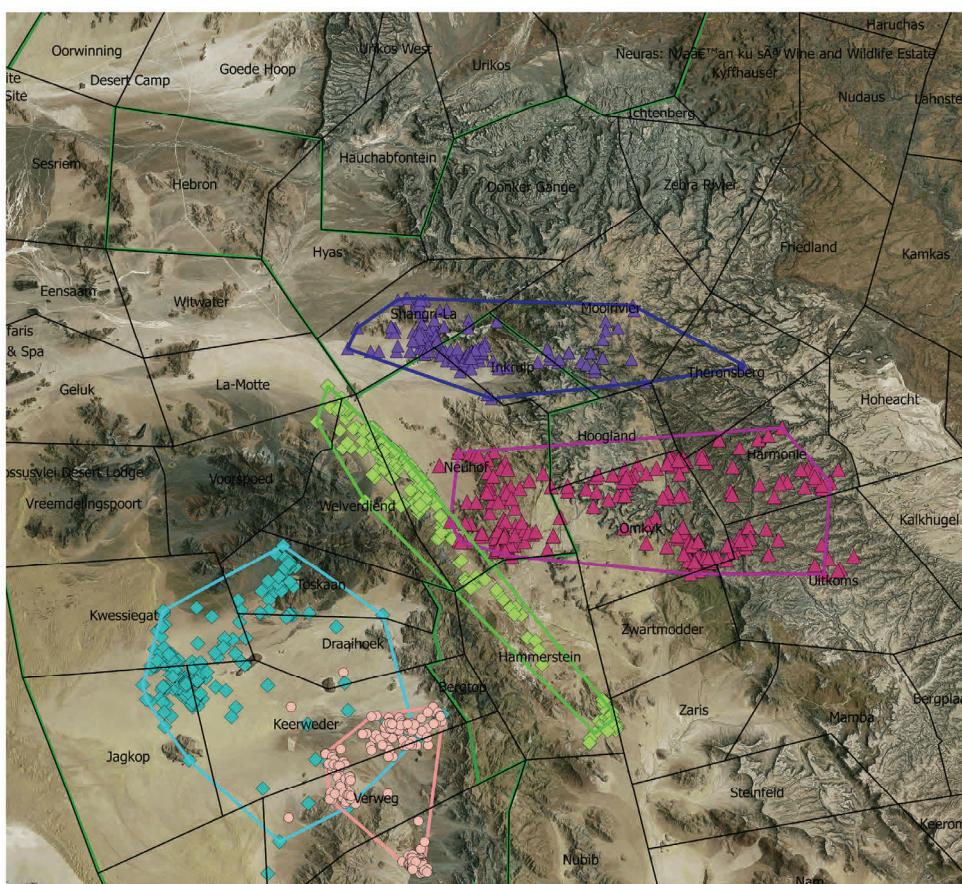


Legend

- Homerange (MCP) HMZ 1772 Dec-Mar 2016
- Homerange (MCP) HMZ 1771 Dec-Mar 2016
- ▲ Hartmann's zebra (1771)
- ▲ Hartmann's zebra (1772)



1 0 1 2 3 4 km
[Scale bar]



Above: Oryx 1769's (green) movements are concentrated on the western side of the fence along the C19, indicating possible movement limitation.



Greater Sossusvlei Namib Landscape

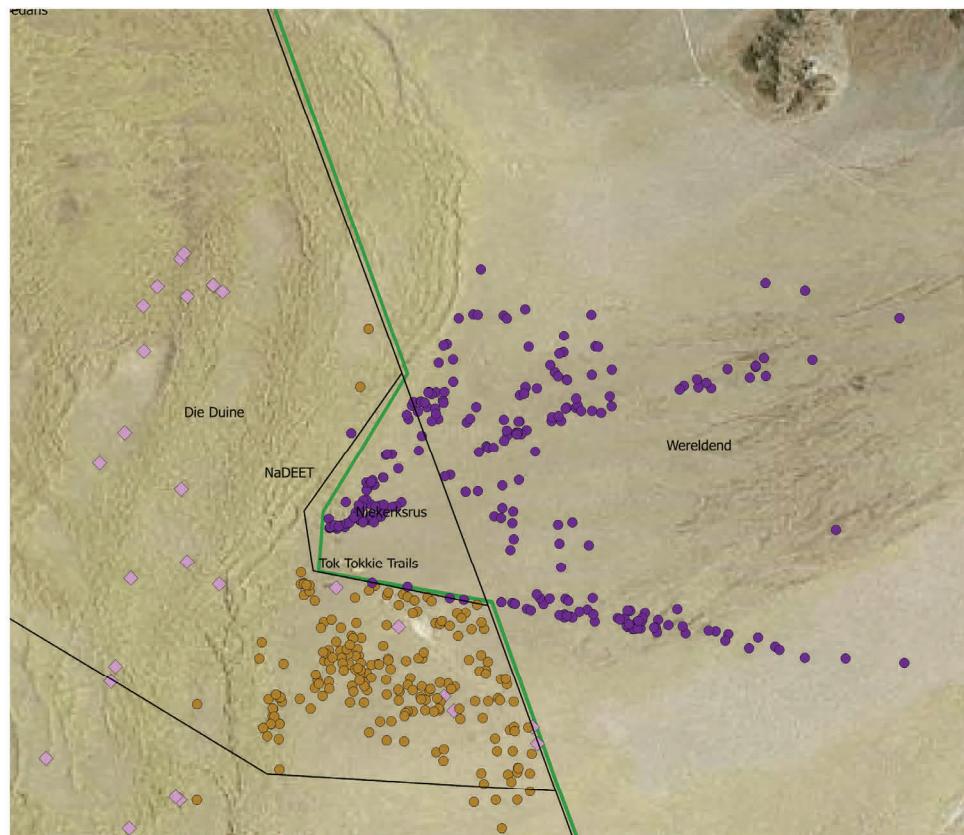
Satellite collar position data - central area
21 December 2015 to 10 March 2016

Legend

- Springbok (nan132)
- ▲ Hartmann's zebra (1774)
- ▲ Hartmann's zebra (1773)
- ◆ Oryx (1769)
- ◆ Oryx (1768)

10 0 10 20 30 40 km
[Scale bar]





Greater Sossusvlei Namib Landscape
Satellite collar position data - southern area fence impact
21 December 2015 to 10 March 2016

Legend

- Springbok (nan134)
- Springbok (nan135)
- Oryx (1770)

Above: Linear location pings of Springbok Nan 135 and Nan 134 indicating limitation of movement by the fences between NaDEET and Wereldend. Nan 135 was the animal freed by Peter Wolfe from entanglement in the fence in February.



On finalising this report, we noticed that springbok Nan 132 near Keerweder had not moved for a few days. Murray Tindall investigated and found the collar near the eaten remains of the springbok. He suspects a cheetah, leopard or hyena was responsible. Picture left: (Murray Tindall)

This newsletter will be produced from time to time in order to inform GSNL members of progress regarding the project. The spatial analyses produced are preliminary, and intended for informative and educational purposes. Feel free to share it widely.

NUST honours student Stefanie Urban will be analysing the movement data, as well as observing behaviour of the ungulates in the vicinity of fences to determine fence impact on different species.

Feedback and enquiries are welcome:

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