

ANTELOPE

The impact of climate change on African antelope

- ♦ Investigate the physiology and behavioral flexibility of four African antelope species, varying in their water dependence, resource selection and movement ecology
- ♦ Fit 10 individuals of each target species (lechwe, eland, tsessebe, waterbuck) with a GPS collar

Coordinator

Dr Robyn Hetem (robyn.hetem@gmail.com)

University of Witwatersrand, South Africa

Countries involved

Botswana, Namibia, South Africa

Other partners involved

Namibia Ministry of Environment, Forestry and Tourism, University of Botswana

Scope

The goal of the ANTELOPE project is to investigate the physiology and behavioral flexibility of four free-living African antelope species, varying in their water dependence, resource selection and movement ecology.

Accordingly, 10 individuals of each target species (lechwe, eland, tsessebe, waterbuck) will be collared. The collar data will record body temperature and activity at 10 minute intervals and heart rate at 15 minute intervals. Miniglobe temperature will be recorded at 60 minute intervals. Locations data will be stored as hourly GPS readings, and combined with remotely sensed data and field journals.

This will help investigate the hypothesis that water-dependent species will be vulnerable to hot and dry conditions, as well as resource fluctuations and change their daytime and nighttime movement, as well as home range patterns accordingly.

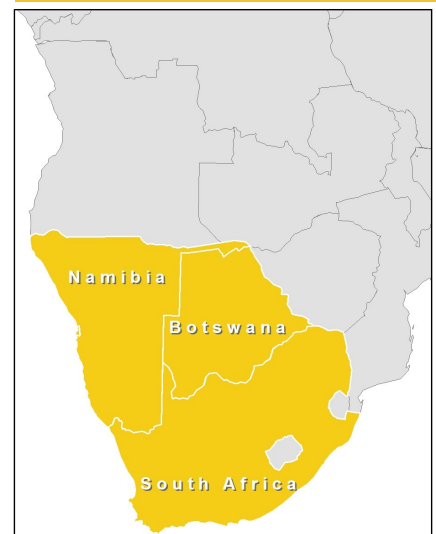
Capacity Development

The ANTELOPE project aims to facilitate 3 PhD students. It will further provide capacity development to farmers and professionals.

Products and Services

- ♦ 9 Peer-reviewed publications
- ♦ AFRIMOVE will be used for hosting the GPS data, as this system enhances collaborations, increases publications and therefore improves the overall understanding and conservation of target species

Biodiversity Conservation



**3 PhD
Students & 9
Publications**



**AFRIMOVE
Collar Data**