

The background of the slide is a composite image. The top portion is a solid white background. Below this, a blue curved band separates the white from a space-themed image. The space image shows the Earth's horizon on the left, with a bright blue glow from the sun. On the right, the Moon is visible in a dark blue hue against the blackness of space, which is dotted with small white stars. The overall color palette is dominated by blues and whites.

Positioning South Africa as a hub for space solutions in Africa

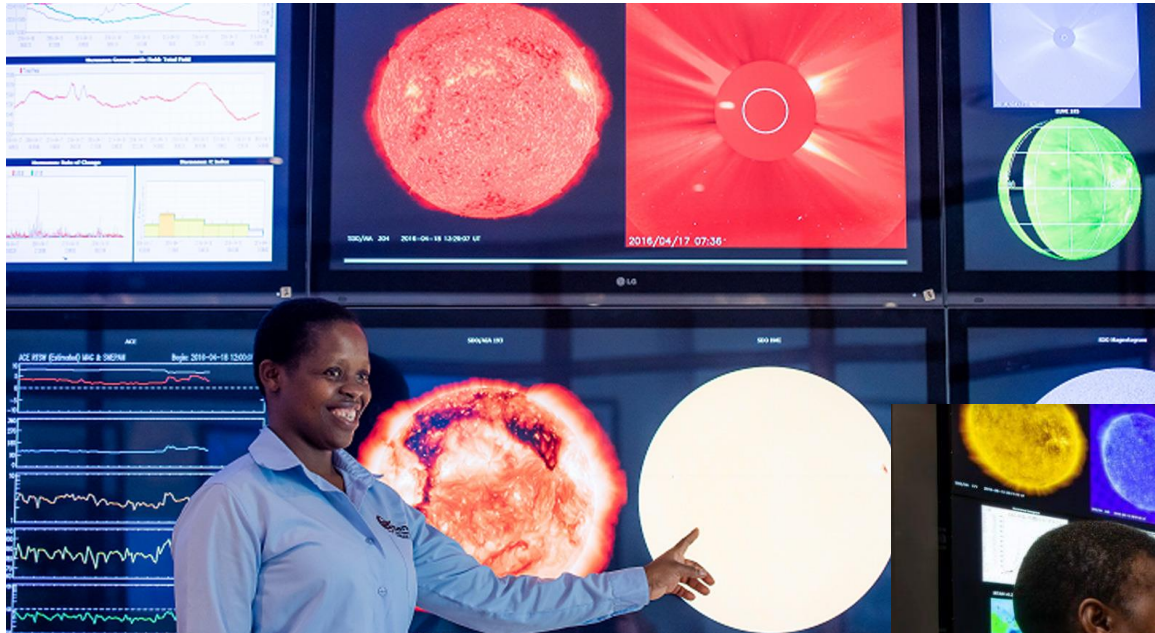
Showcasing unique facilities

Dr Lee-Anne McKinnell
Managing Director Space Science
South African National Space Agency (SANSa)

SANSA HERMANUS



- A magnetically clean facility utilised for Space Science related activities
- Part of the worldwide network of magnetic observatories.
- Responsible for research infrastructure and data which is used to monitor the near Earth space environment.
- Fundamental and applied space science research, post-graduate student training, science advancement, and the provision of Space Weather and Magnetic Technology products and services.



Located at SANSA
Hermanus

Focuses on regional
impacts of Space
Weather



MAGNETICALLY CLEAN FACILITIES



Helmholtz Coils System

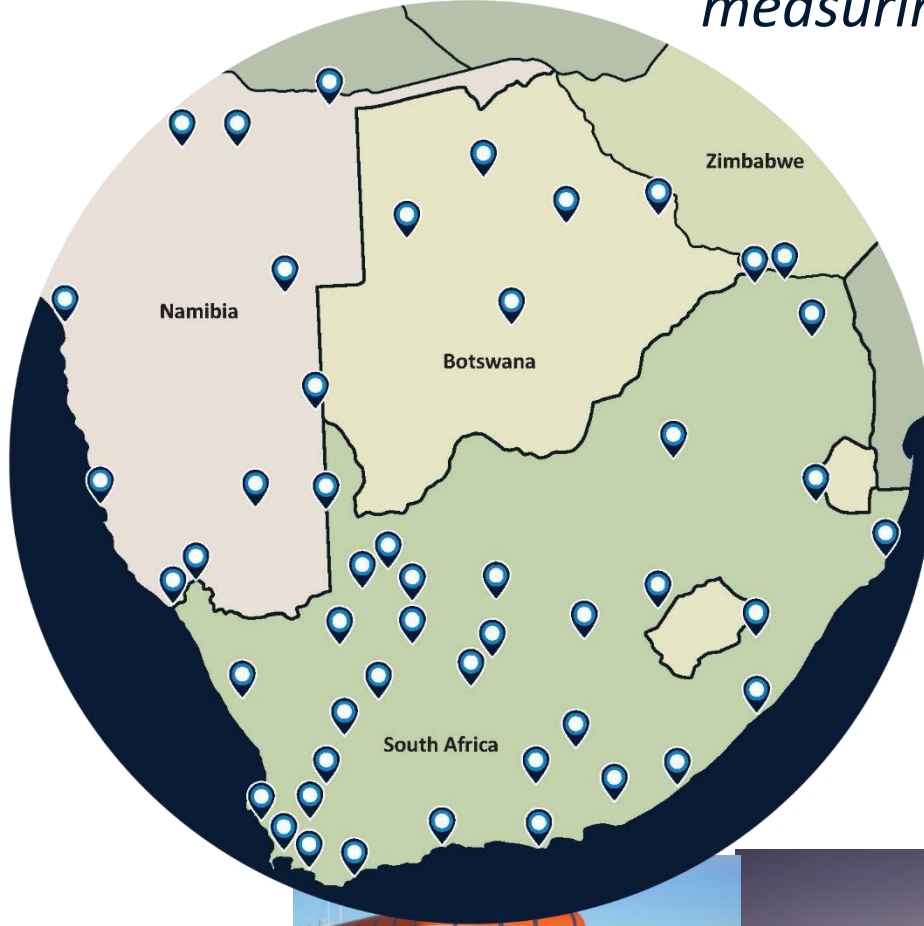


Magnetic Clean Environment



INFRASTRUCTURE

measuring space from the ground



South Africa in Remote Areas





<http://research.sansa.org.za>



South African National geophysical Data and
Instrumentation Management System
(SANDIMS)

<http://sandims.sansa.org.za>

UNIQUE SOUTH AFRICAN FACILITIES

- Magnetically clean environment, space science expertise & quality assured data
- Operational Space Weather Centre
- Non-Magnetic infrastructure for testing and calibrating highly sensitive magnetic equipment
- Geophysical instrumentation network for measuring space from the ground
- A large archived geophysical data base dating more than 80 years
- A state of the art base in Antarctica and on Marion Island

PLANS FOR THE FUTURE

- **24/7 Operational Space Weather Centre** with capability and resources to provide space weather information and expertise in four impact areas (HF Comms, GNSS Applications, Radiation Exposure, Satellite Comms)
- **African Instrumentation Network** – expansion of geophysical instrumentation into Africa to ensure ground based near Earth space environment monitoring capability for research, operations and forecasting.

