



Implementation of LTS Guidelines

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About SANSA




The only space weather
centre in Africa



The most advanced ground
segment in Africa

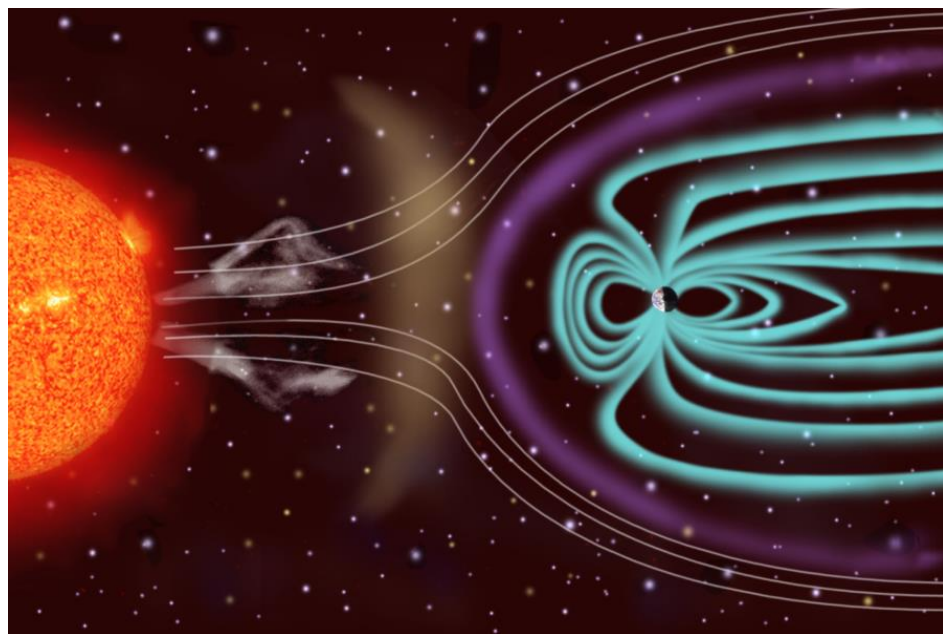
Guideline B.7

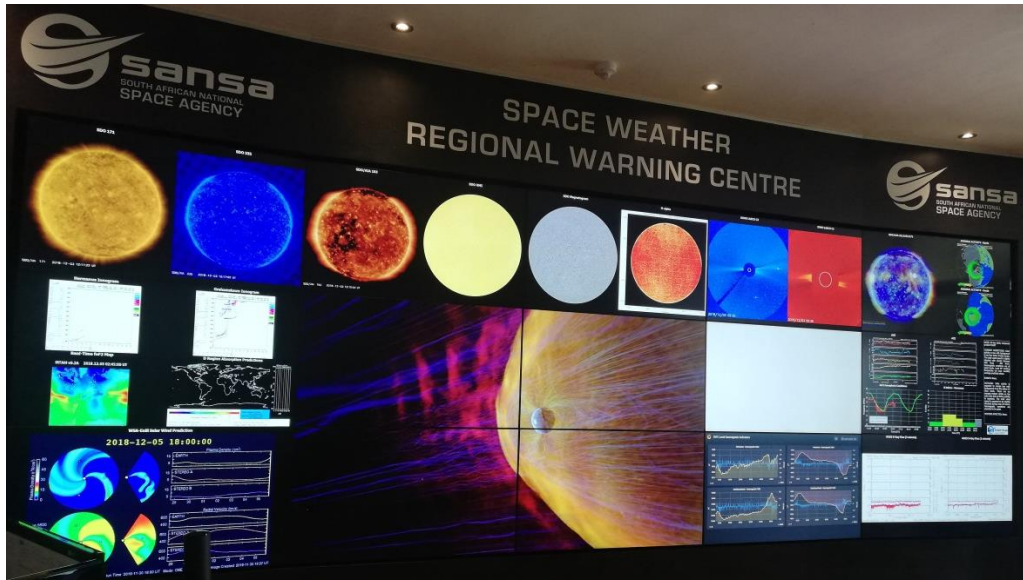
- Space weather thresholds into launch criteria
 - Mitigate anomalies for on-orbit operations
 - Collection, collation and sharing of information
 - Common formatting for reporting information
 - Policies on sharing of information
 - Encouraging training and knowledge transfer
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Space Weather

- Working Group on Long Term Sustainability of Outer Space Activities
- UNCOPUOS Expert Group on Space Weather
- Regional Space Weather Centre providing expertise and activities on space weather for the African Region
- Designated provider State for regional space weather information to the aviation sector
- SANSA is the lead African institution on Space Weather under the ICAO African Regional Office

SANSA SPACE WEATHER CENTER

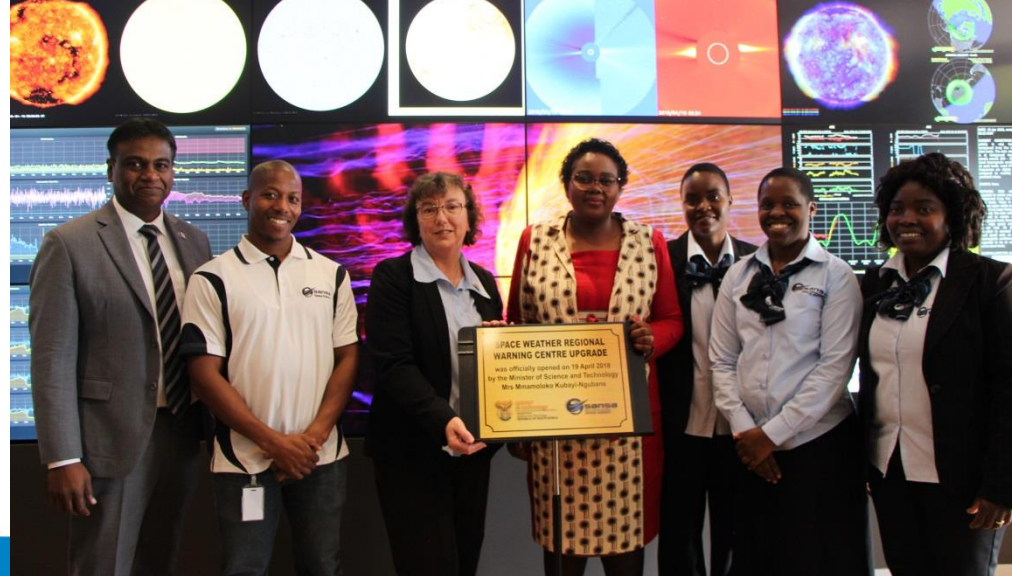




Space Weather Centre
launched in December
2010

Re-launched after
upgrade in April 2018

New 24/7 Regional
Space Weather
Centre to be
launched in 2022



PROVIDER STATE FOR REGIONAL SPACE WEATHER INFORMATION



Space Weather Information for Aviation

- Space weather information shall be provided as part of the flight documentation.
- **SANSA has received designation as a Regional Centre for Space Weather Information Provision from the International Civil Aviation Organisation (ICAO)**
- Space weather advisory information will include one or more of the following effects:
 - a) high frequency (HF) radio communications;
 - b) Satellite communications
 - c) GNSS-based navigation and surveillance; and
 - d) radiation exposure at flight levels;

**IMPLEMENTATION IS
SET FOR BETWEEN MAR
2019 (Global) & Nov
2022 (Regional)**



DATA & INFRASTRUCTURE



Measuring space from the ground

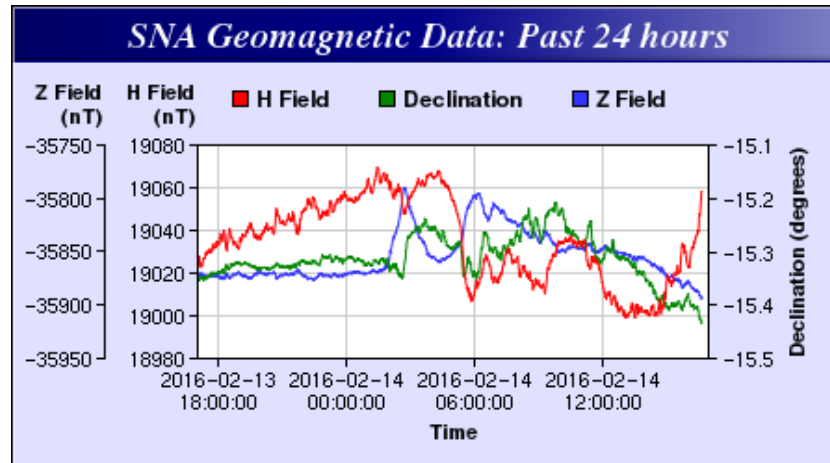
Measuring space from the ground



Measuring space from the ground in support of space weather research and applications

SANSA operates an extensive geophysical instrumentation network across Southern Africa, Antarctica and the Atlantic Islands

This is complimented with available satellite data



THANK YOU



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA

