

# SAIP2016



DEPARTMENT OF ASTRONOMY



UNIVERSITY OF CAPE TOWN  
IYUNIVESITHI YASEKAPA · UNIVERSITEIT VAN KAAPSTAD



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## HF Propagation Systems for African communications

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### Abstract :

We present a study that validates High Frequency (HF) propagation predictions in the South African region. Measurements of the ionospheric propagation from ionosondes, the international beacon project, and Doppler sounders located in Africa are used for a space weather study on the accuracy of the SANSa predictions. The HF predictions are crucial for communication within Africa, and are significantly affected by adverse space weather. SANSa operates the Regional Warning Centre for Space Weather in Africa, and as such is mandated to produce accurate predictions and forecasts as well as confidence levels on the regional impact of space weather.

### Award :

Yes

### Level :

Hons

### Supervisor :

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### Paper :

No

### Permission :

Yes

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