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Type: **Poster Presentation**

## The effects of space weather and the solar cycle on the South African climate

*Tuesday, 4 July 2017 17:10 (1h 50m)*

In this research project, aspects of the cosmoclimatology theory are tested for a South African context. It has been suggested that cosmic rays may contribute to the production of condensation nuclei that are needed for cloud formation. To test this, since cloud production could have an effect on temperature, rainfall, and hours of daily sunlight, the periodicities in these locally measured quantities are analyzed. These periodicities are compared to those found in sunspot numbers, local neutron monitor counts, and total solar irradiance, as indicators of space weather and the solar cycle. Lastly, it is determined whether a linear correlation exists between these climate and space weather indicators. This should provide some estimate of the importance of space weather in changes of local climate conditions.

**Apply to be considered for a student &nbsp; award (Yes / No)?**

Yes

**Level for award (Hons, MSc,   PhD, N/A)?**

Hons

**Main supervisor (name and email) and his / her institution**

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**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

No

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