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The response of the ionosphere to geomagnetic storms within 20°E – 40°E African longitude sector

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Geomagnetic storms are mainly driven by Coronal Mass Ejections (CMEs) and Co-rotating Interaction Regions (CIRs). In response to the magnetosphere-ionosphere system, different ionospheric storm effects may be observed in mid, low and equatorial latitude regions depending on the driving mechanisms of any particular geomagnetic storm. This work will discuss ionospheric storm effects during both CME and CIR driven storms over the African sector for the period 2000 - 2015. The dependence of ionospheric storm effects on solar activity and some mechanism that influences the ionospheric storm effects are presented.

Apply to be considered for a student award (Yes / No)?

Yes

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

PhD

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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