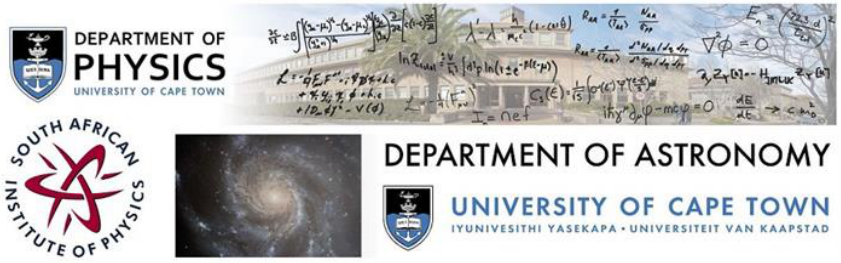

Contribution ID: **196** Type: **Oral Presentation**

Confirmation of low latitude electrodynamics in driving poleward waves

Tuesday, 5 July 2016 11:30 (20 minutes)

Abstract content
   (Max 300 words)
Formatting &
Special chars

This talk will discuss the physical mechanisms responsible for launching poleward waves originating from the geomagnetic equator. In particular, satellite and radar data will be utilised in confirming that vertical drift contributes to poleward motion of waves through Lorentz coupling.
Results show that such waves can travel up to 20-30 degrees on both sides of the geomagnetic equator and therefore contribute to some ionospheric features such as electron density increase in part of the mid-latitude region.

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

No

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

N/A

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

No

Please indicate whether
this abstract may be
published online
(Yes / No)

Yes

Primary author: Dr HABARULEMA, John Bosco (South African National Space Agency)

Co-author: Dr KATAMZI, Zama Thobeka (South African National Space Agency)

Presenter: Dr HABARULEMA, John Bosco (South African National Space Agency)

Session Classification: Space Science

Track Classification: Track D2 - Space Science