Contribution ID: **52** Type: **Poster Presentation**

Lower and upper thermospheric wind variations during magnetically quiet days

Tuesday, 10 July 2012 17:30 (2 hours)

Abstract content
   (Max 300 words)

The mesosphere/lower thermosphere and thermospheric F-regions are dynamically coupled through thermospheric winds, tides and waves. The regular fluctuations in the earth's magnetic field on quiet days are caused by dynamo-induced currents which flow in the ionosphere/thermosphere system.The ionospheric dynamo is driven by tidal winds from the lower atmosphere.
This paper presents simultaneous mesosphere/lower thermosphere and upper thermospheric region wind observations during a quiet magnetic period using
data from TIMED and CHAMP satellites.

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

NO

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

yes

Primary author: Dr SIVLA, William Tafon (School of Chemistry and Physics, Unversity of Kwazulu-Natal, Durban.)

Co-author: Dr MCCREADIE, Heather (School of Chemistry and Physics, University of Kwazulu-Natal,Durban)

Presenters: Dr MCCREADIE, Heather (School of Chemistry and Physics, University of Kwazulu-Natal,Durban); Dr SIVLA, William Tafon (School of Chemistry and Physics, Unversity of Kwazulu-Natal, Durban.)

Session Classification: Poster Session

Track Classification: Track D2 - Space Science