

Electrodynamics Discussion

Drivers

- The thermosphere and ionosphere are strongly driven systems
- If you run two models with different drivers you are absolutely sure to get different results.
- Should we try to run different models with the same drivers?

Software

- One of the problems with running with the same drivers is that we all have drivers in different formats.
- I have a code that may allow us all to use the same drivers.
- F90 library that takes:
 - IMF, Hemispheric Power, Kp, etc....
 - Time
 - Magnetic latitude and magnetic local time
- Returns potential, average energy or energy flux

Types of Drivers

- I developed this so I could run with Weimer, Foster, Fuller-Rowell and Evans, Hardy, and AMIE by simply switching the type of model desired
- Can add other types.
 - Other AMIE patterns
 - Other empirical models
 - MHD output
 - RCM output
 - Output from other global circulation model

The Plan

- The general idea
- Specific event to try out?