

GEM 2012 – Overview

Scientific Magnetic Mapping and Techniques

- Types of mapping
 - Successful examples
- Inputs -> Outputs
 - Science questions (http://bit.ly/mapping_science)
 - Techniques (http://bit.ly/mapping_techniques)
 - Review paper (gather volunteers)
 - Challenge definition (invite participation)
- Joint session, late growth phase mapping

Schedule - http://bit.ly/gem_mapping

Monday, Salon D, 3:30

- *Natalia Ganushkina, Interhemispheric magnetic conjugacy
- **Chia-Lin Huang, comparison of different field models to measured fields at GOES
- **Mike Henderson, Tutorial on Event-Based Modeling
- *Kyungguk Min, New, rapid L* calculation
- *Jun Liang, In-situ calculation of magnetic field-line curvature
- *Gang Lu, Magnetic field modeling constrained by GOES and THEMIS
- *Rob Redmon, DMSP auroral boundaries + *Joachim Birn* + *Bob Strangeway*

Tuesday, Salon D, 3:30

- **Toshi Nishimura: Mapping implications of the onset arc location relative to the Birkeland Currents
- **Jun Liang: The magnetospheric "root" of the onset auroral arc
- **Larry Lyons: Mapping implications of the very thin auroral oval in the late growth phase
- **Jian Yang: Growth phase magnetic field model

Thursday, Salon C, 3:30 (DATE CHANGE)

Challenge

- Bring ideas
- Form, output ?
- Mini-GEM, decision
 - Evaluate some candidates
 - Encourage proposals
 - CCMC support