**The Ionospheric Source of Magnetospheric Plasma—**

**Measurement, Modeling, and Merging Into the GEM GGCM**

**GEM Meeting, Portsmouth Virginia, June 15-20, 2014**

**Session Agenda—\*\*Invited (20 min), \*Contributed (10 min), Times Include Discussion**

**Session 1—Merged Model and Measurements of Storm Dynamics 1—June 17, 10:30 am**

Bob Schunk\*\*—Overview of Ion Outflow

Dan Welling\*\*—Merged Ionosphere/Magnetosphere Modeling of the GEM Idealized Storm

 Period Using GPW and BATSRUS.

Nick Perlongo\*—PWOM Results as Input to MHD Models for the Idealized and First Real

 Storm Periods.

Dan Welling and Nick Perlongo\*\*—Merged Ionosphere/Magnetosphere Modeling of the

 GEM Idealized Storm Period Using PWOM and BATSRUS.

Roger Varney and Mike Wiltberger\*\*—Merged Modeling of the GEM Idealized Storm Period

 Using an Ionosphere/Polar Wind Model (IPWM) and the LFM-MIX/CMIT.

**Session 2—Merged Model and Measurements of Storm Dynamics 2—June 17, 1:30 pm**

Vince Eccles\*\*—Ionospheric Dynamics During the 8-day GEM First Real Storm Study Period.

Abdallah Barakat\*\*—Ion Outflow Predicted by the Generalized Polar Wind Model During the

 GEM First Real Storm Period.

Dan Welling and Abdallah Barakat\*—Merged Ionosphere/Magnetosphere Modeling of the

 First Storm Period Using GPW and BATSRUS.

Naritoshi Kitamura\*\*—FAST Ion Outflow Measurements—Flux, Velocity, Temperature, Current

 Density and Characteristics of Electron Precipitation During the GEM First Storm.

Tom Moore and Rick Chappell\*\*—Polar Measurements of Low Energy Ion Outflow and Lobal

 Wind During the GEM First Storm Period.

**Session 3—Merged Model and Measurements of Storm Dynamics Including the**

 **Plasmasphere—June 17, 3:30 pm**

Stein Haaland\*\*—Cold Ion Outflow: Cluster Measurements During the GEM First Storm Period.

Lynn Kistler\*\*—Cluster Measurements of O+ During the GEM First Storm Period.

Elena Kronberg\*\*—Cluster RAPID Energetic Ion and Electron Measurements During the GEM

 First Storm Period.

Joe Borovsky\*\*—LANL Plasma Measurements During the GEM First Storm Period.

Naritoshi Kitamura\*—FAST Observations of the Solar Zenith Angle Dependence on Relations

 Between Energy Input and Outflowing H+ and O+ Ion Fluxes >3000 km.

**Session 4—Planning Session—June 18, 10:30 am**

Jonathan Krall\*\*—SAMI 3 Modeling of Post-Storm Plasmasphere Filling and Comparisons

 With Measurements.

Joe Borovsky\*\*—Long-lived Drainage Plumes—Where Does the Plasma Come From?

GENERAL DISCUSSION OF FUTURE COLLABORATIVE STUDIES

**Informal Workshop Comparing Models and Measurements—June 18, 1:30-3:30 pm**