

## **Monday, September 10, 2012**

9:00-9:15: Introduction

9:15-9:45: Welcome to ISSI [Maurizio Falanga, Program Manager]

### ***Session 1: Global modelling of Gas Giants aeronomy***

9:45-10:15: Magnetosphere-Ionosphere-Thermosphere coupling, lessons from Saturn [Ingo Muller-Wodarg]

10:15-10:45: Modelling Vibrationally excited H<sub>2</sub> at Jupiter and Saturn [Luke Moore]

*Coffee break: 10:45-11:15*

11:15-12:30 Session Discussions

*Lunch: 12:30-14:00*

### ***Session 2: Modelling ionospheric-magnetospheric currents***

14:00-14:30: Magnetosphere-ionosphere-thermosphere coupling at Saturn [Licia Ray]

14:30-15:00: Discussion of Chris Smith's work

15:00-15:30: Auroral energy deposition in the jovian atmosphere: model comparison [Marina Galand – via telecon]

*Coffee break: 15:30-16:00*

16:00-17:00 Session Discussions

## **Tuesday, September 11**

### ***Session 3: Occultation measurements and vertical structure***

9:00-9:30: New Horizons stellar occultations of Jupiter; and other topics [Julianne Moses]

9:30-10:00: New Saturn radio occultation results [Andy Nagy]

10:00-10:30: Temperature profiles at low, medium and high latitudes derived from UVIS EUV occultations [Jacques Gustin – via Telecon]

*Coffee break: 10:30-11:00*

11:00-12:00 Session Discussions

*Lunch: 12:00-14:00*

14:00-14:30: Saturn's upper thermosphere structure [Don Shemansky]

14:30-15:00: H<sub>3</sub><sup>+</sup> vertical profiles at Saturn [Tom Stallard]

*Coffee break: 15:00-15:30*

15:30-17:00 Session Discussions

## **Wednesday, September 12**

### ***Session 4: Non-auroral magnetospheric-ionospheric interactions***

9:00-9:30: The Great White Spot on Saturn and its relation to the upper atmosphere and magnetosphere [Georg Fischer]

9:30-10:00: Ionospheric interactions with Saturn's Rings [James O'Donoghue]  
10:00-10:30: H<sub>3</sub><sup>+</sup> variability in Jupiter's equatorial region / UVIS and VIMS observations of Saturn's aurora

*Coffee break: 10:30-11:00*

11:00-12:00 Session Discussions

*Lunch: 12:00-14:00*

### **Session 5: Electrostatic Discharges**

14:00-14:30: Comparison of jovian and saturnian lightning with implications for their ionospheres [Georg Fischer]

14:30-15:00: The attenuation of radio waves by the lower ionospheres of Jupiter and Saturn [Luke Moore]

*Coffee break: 15:00-15:30*

15:30-17:00 Session Discussions

### **Thursday, September 13**

#### ***Session 6: Hydrogen properties and processes***

9:00-9:30: Jupiter and Saturn hydrogen RUV/FUV emission properties and energy rates [Don Shemansky]

9:30-10:00: Hydrogen rate processes [Don Shemansky]

*Coffee break: 10:00-10:30*

10:30-11:30 Session Discussions

*Lunch: 11:30-14:00*

#### ***Session 7: Beyond 10AU***

14:00-14:30: Seasonal variability in Uranus's ionosphere [Henrik Melin]

14:30-15:00: "Hot Jupiter" exoplanet photochemistry [Julianne Moses]

*Coffee break: 15:00-15:30*

15:30-17:00 Session Discussions

### **Friday, September 14**

9:00-10:00: Discussion of upcoming space missions and the plans needed for them

*Coffee break: 10:00-10:30*

10:00-12:00: Review of findings for the meeting, list of current questions and actionable items

*Lunch: 12:00-14:00*

14:00: AOB