

2017 Fall Van Allen Probes SWG Meeting

25-27 October, JHU/APL (200-E100)

Morning Session: 09:00 - 12:00
Break I: 10:30 - 10:45
Lunch: 12:00 - 13:30
Afternoon Session: 13:30 - 17:00
Break II: 14:45 - 15:00

25 October (Wednesday)

Welcome. Mission Status

Sasha Ukhorskiy, Kris Fretz, Ed Reynolds

Energetic Particle Injections and Related Processes

Robert Strangeway

SCATHA Observations of Ion Injection Events

Sheng Tian

Poynting flux at the PSBL in conjunction with the ground aurora

Matina Gkioulidou Outflow off the Beaten Path: Low Energy (< keV) O⁺ Outflow Directly Into the Inner Magnetosphere

Don Mitchell

Ion injections inside geosynchronous orbit: Charge-dependent quasi-adiabatic acceleration

Sasha Ukhorskiy

Role of Particle Trapping and Acceleration at Dipolarization Fronts for Buildup of the Ring Current and Radiation Belts

Tetsuo Motoba

Response of different ion species to local magnetic dipolarization inside GEO

Michael Hartinger

Nightside Pi2 wave properties during an extended period with stable plasmopause location and variable geomagnetic activity

German Farinas Perez

Detection of energetic ion injections using RBSPICE

Grant Stephens

Global empirical model of substorms derived from space-borne magnetometer data

Remya Bhanu

Observations of ion injection triggered EMIC waves in the Earth's inner magnetosphere

Plasma Waves and Wave-Particle Interactions

Oleksiy Agapitov

Chorus wave model from combined Van Allen Probes and Cluster statistics

John Foster

Quantifying the Effect of Strong Subpacket Structure in VLF Chorus Rising Tones on Radiation Belt Acceleration

Kristine Sigsbee

Van Allen Probes Observations of EMIC Wave Rising Tones: September 2017 Geomagnetic Storm and Statistical Study Update

Seth Claudepierre Evidence for a Potential Electron Microburst Observed on Van Allen Probes: MagEIS, RBSPICE, and EMFISIS

Kazue Takahashi

Poloidal Standing Alfvén Waves in the Midnight Sector

Homayon Aryan

Chorus scale size

Kyungguk Min

Fast magnetosonic waves observed by Van Allen Probes: Testing local wave excitation mechanism

26 October (Thursday)

Multi-Mission Coordination

Sasha Ukhorskiy et al.

RBSP News/updates

RBSP-Arase Coordination. Summary of joint meeting in Kyoto

William Robert (Bob) Johnston

DSX Space Weather Experiment

Ian Cohen

MMS Mission Status

Harlan Spence

FIREBIRD-II Mission and Science Updates

Bern Bake

AC6 Mission and Science Updates

Jerry Manweiler

KUbeSat: a CubeSat mission by the University of Kansas

Summary of the RBSPICE Data Handbook

Systems Understanding. Radiation Belt Models

Dan Baker

Multi-Year Observations of Ultra-Relativistic Electrons

Scott Thaller

Plasmasphere modulations at solar rotation period

Kareem Sorathia

Global Radiation Belt Modeling: Combined MHD, Ring Current and Test-Particle Simulations

Alexander Lipatov

Hybrid model for transmitted shock in the inner magnetosphere

Mary Hudson

Competition between radial loss and EMIC wave scattering of MeV electrons during strong CME-shock driven storms

Ankush Bhaskar

Radiation belt response to reverse shocks

Hong Zhao

Radiation Belt Electron Energy Spectra Characterization and Evolution Based on the Van Allen Probes Measurements

Alexander Boyd

Peaks in Phase Space Density: A Survey of the Van Allen Probes Era

Chia-Lin Huang and Harlan Spence

Total Radiation Belt Electron Content of the Van Allen Probes Era

Events and Techniques

Shri Kanekal

Van Allen Probes observations during September 2017

David Hartley

Determining Plasma Densities from Observations of Whistler-Mode Waves

Claudia Medeiros

Identification of butterfly pitch angle distribution shapes based on a neural network approach

27 October (Friday)

Senior Review discussion. Meeting adjourn at 12:00