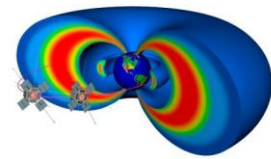


RBSP
Radiation Belt Storm Probes

RBSP SOC Workshop

August 18-19, 2010

Logistics
Agenda
Introduction



Call in and meeting place information:

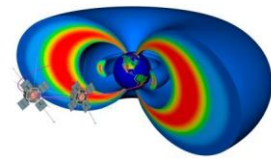
Phone Number(s):82200 Internal

443.778.2200 Baltimore

240.228.2200 Washington

800.835.0936 Toll Free

Meeting ID: 655418



Guest WiFi:

See: <http://itsdwww.jhuapl.edu/services/communications/unclassnet/WLAN-User-Guide.pdf>

Connect to the “Guest” network

WEP Password: **month (6d 6f 6e 74 68)**

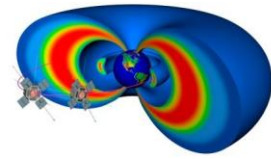
Login from browser using:

Login: **guest**

Pasword: **Qw3\$Ty7***



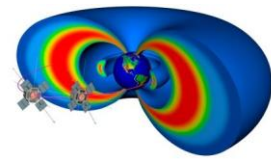
Logistics



- Badges and Laptop tags will need to be issued on both days.
- Refreshments at the back of the room
- For those with an escort badge, there is a guard on duty.
- Lunch – Cafeteria across the way, or restaurants at the end of the street.
- Memory sticks available to move files around.



Agenda



Wednesday August 18th

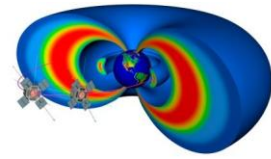
- 09:00-09:30 AM: Introduction and setup
- 09:30-11:00 AM: SPICE Workshop Part 1
- 11:00-11:15 AM: Break
- 11:00-12:00 PM: SPICE Workshop Part 2
- 12:00-01:00 PM: Lunch
- 01:00-03:00 PM: SPICE Workshop Part 3
- 03:00-03:15 PM: Break
- 03:15-05:00 PM: CDF Workshop Part 1

Thursday August 19th

- 09:00-10:30 AM: CDF Workshop Part 2
- 10:30-10:45 AM: Break
- 10:45-12:00 PM: ViRBO Workshop part 1
- 12:00-12:45 PM: Lunch
- 12:45-02:30 PM: ViRBO Workshop part 2
- 02:30-02:45 PM: Workshop wrap-up



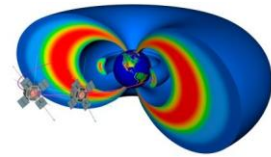
Agenda - SPICE



- Installing the SPICE Toolkit
- Testing the installation
- Time conversions with SPICE
- Using SPICE for ephemerides conversion
- Frame transformations in SPICE



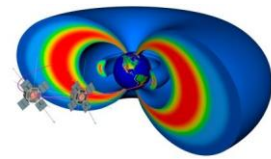
Agenda - SPDF



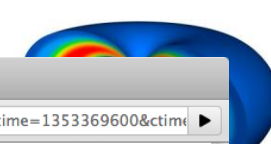
- Reminder: What is SPDF
 - And how are we relevant to RBSP
- Basic definitions and concepts of CDF
- Tools to read and work with CDFs
- How to create CDFs
 - Skeleton CDFs
 - Loading data and writing CDFs using IDLmakecdf procedures
- Additional details
- PRBEM and possible PRBEM extensions
- RBSP-specific Q&A



Agenda - ViRBO



- Introduction
- The VxO
- The HPDE
- My Job
- ViRBO Connection to SPDF
- ViRBO Capabilities Now
- VxO Capabilities Developing
- Metadata – Introduction to SPASE
- SPASE Relationship to PRBEM-ISTP-CDF
- VxOware Overview
- Metadata – Creating SPASE records
- Metadata – Search
- Metadata – Image Galleries
- Metadata – Bookmarks and VAP Files
- Metadata – Management Tools
- VxO Capabilities Developing
- Software tools



RBSP Position Calculator

Start Time: 18 November 2012 00:00 UTC
 End Time: 20 November 2012 00:00 UTC
 Cadence: 5 Minutes
 Coordinate System: GEI GEO GSM GSE
 Spacecraft: RBSP A RBSP B Include Header [Get ASCII File](#)

Year	Month	Day	Hour	Minute	Second	GSMX (km)	GSMY (km)	GSMZ (km)
2012	07	01	00	00	00	13551.395508	-33103.593750	-8501.312500
2012	07	01	00	05	00	14086.384766	-32954.843750	-8462.172852
2012	07	01	00	10	00	14611.274414	-32783.128906	-8414.680664
2012	07	01	00	15	00	15125.724609	-32588.619141	-8359.025391
2012	07	01	00	20	00	15629.388672	-32371.455078	-8295.400391
2012	07	01	00	25	00	16121.914062	-32131.761719	-8224.008789
2012	07	01	00	30	00	16602.937500	-31869.642578	-8145.056641
2012	07	01	00	35	00	17072.085938	-31585.175781	-8058.758789
2012	07	01	00	40	00	17528.974609	-31278.429688	-7965.334961
2012	07	01	00	45	00	17973.210938	-30949.451172	-7865.012207
2012	07	01	00	50	00	18404.382812	-30598.271484	-7758.023438
2012	07	01	00	55	00	18822.062500	-30224.896484	-7644.606445
2012	07	01	01	00	00	19225.802734	-29829.328125	-7525.004395

RBSP Orbit Plotter

Start Time: 18 November 2012 00:00 UTC
 End Time: 20 November 2012 00:00 UTC
 Coordinate System: GEI GEO GSM GSE [Plot Orbit](#) [Get PDF](#)

RBSP Time Converter (SCLK -> UTC)

Start Time: 1 / 0075009600 : 00000
 End Time: 1 / 0075096000 : 00000
 Cadence: 5 Minutes
 Spacecraft: RBSP A RBSP B Include Header [Get ASCII File](#)

RBSP Time Converter (UTC -> SCLK)

Start Time: 18 November 2012 00:00 UTC
 End Time: 20 November 2012 00:00 UTC
 Cadence: 5 Minutes
 Spacecraft: RBSP A RBSP B Include Header [Get ASCII File](#)

