

AGENDA

CAPS Team Meeting #41

November 17-19, 2010

Maryland Inn, Annapolis, Maryland

(Meetings are in the Duke of Gloucester Room)

http://caps.gsfc.nasa.gov/CAPS_Team_Meeting_41/index.html

Wednesday, November 17, 2010

9:00	Welcome and local arrangements	Sittler
9:10	Project status and November 2 spacecraft safing	Crary
9:30	Participating Scientist program and CAPS rules of the road	Crary
10:00	Flight operations, software, data archiving	Furman/Mokashi
10:20	ELS operations and status	Gilbert
10:30	Break (in Anne Arundel Room)	
10:45	Reaching Consensus on IMS Calibration	Crary
11:00	IMS calibration effort at GSFC, TOF functions for flight, molecules in the LEF and other ODDS and ends	Shappirio
11:20	Future calibration plans	Crary
11:30	Discussion	
12:00	Lunch	
	<u>Science Discussions (all talks are 20 minutes – but lots of discussion is encouraged; assume less than 15 min of prepared material)</u>	
	<i>Icy Satellites</i>	
13:30	Surface charging of Rhea	Coates (for Jones)
13:50	Production, distribution and pickup ionization of Rhea's O ₂ -CO ₂ exosphere Tokar	
14:10	Pick-up ion ring distributions at Dione	Tokar
14:30	Neutral H ₂ O density and the jet features in the Enceladus plume	Dong
14:50	Electron observations at Enceladus	Coates (for Jones)
15:10	Discussion	
15:30	Break (in Anne Arundel Room)	
	<i>Titan</i>	
15:45	CAPS-ELS results from T70	Coates
16:05	Hybrid study on T15 based on CAPS moments and data	Sillanpaa
16:25	Observations of Titan's upper atmospheric response to various plasma environments	Westlake
16:45	Discussion	

Thursday, November 18, 2010

9:00	Synergism of Saturn, Enceladus and Titan and the formation of HCNO exobiological materials	Sittler
9:20	Robust error analysis for forward modeling of plasma data	Wilson
Magnetosphere (Part 1)		
9:40	High energy radiation background environment of Saturn's inner Magnetosphere	Cooper
10:00	Discussion	
10:30 Break (in Anne Arundel Room)		
10:45	Something concerning the region between the main rings and Enceladus	Elrod
11:05	The hydrogen atoms in the inner Saturnian magnetosphere – comparison to UVIS measurements	Tseng
11:25	Radial transport of plasma in Saturn's inner magnetosphere	Chen
11:45	Discussion	
12:00 Lunch		
13:00	Plasma properties in Saturn's magnetosphere	Tokar (for Powell)
13:20	Day-night asymmetries in Saturn's cool electrons	Dejong
13:40	Discussion	
14:00	Leave for Naval Academy Tour	

Friday, November 19, 2010

Magnetosphere (Part 2)		
9:00	Investigation of the current sheet properties using LANL moments	Szego
9:20	Mass and energy flow through Saturn's magnetosphere and comparison with Jupiter	Bagenal
9:40	Sources of structure in the outer magnetosphere	Eviatar
10:00	Discussion	
10:30 Break (in Anne Arundel Room)		
10:45	What can plasma simulations tell us about plasma sources?	Hill
11:05	The sources, evolution and impact of the hot electron component at Saturn	Rymer
11:25	Saturn's magnetospheric mode	Rymer
11:45	Discussion	
12:00 Lunch		
13:00	A study of electron injections	Livi
13:20	Supercorotating Vasyliunas cycle return flow in Saturn's dawn magnetosphere	Coates (for Masters)
13:40	Differences in the structure of a planetary boundary layer	Coates (for Masters)
14:10	Detection of H ₃ ⁺ from Saturn's ionosphere	Crary

Morning Coffee/Breakfast: 8:30-9:00**Breaks: Morning – 10:30-10:45 Afternoon – 15:30-15:45 (in Anne Arundel Room)****Team Dinner: Wednesday night, 7:00pm, Treaty of Paris Restaurant****Naval Academy Tour: Thursday, 2:30pm**