



AGENDA
Atmospheric Sounding Science Team Meeting
October 14-17, 2008
MARRIOTT GREENBELT
Final Agenda



Tues. October 14, 2008

A.M. Light Refreshments: 8:00 - 8:30

Session 1: Introduction

8:30 - 10:10

Moustafa Chahine	JPL	Welcome and Introduction	8:30 AM
Ramesh Kakar	NASA HQ	NASA Atmospheric Sounding Program	8:50 AM
Chris Barnet	NOAA	CrIS/IASI Status at NOAA	9:10 AM
Tom Pagano	JPL	AIRS Project Status	9:30 AM
Claire Parkinson	GSFC	Status of Aqua	9:50 AM

BREAK

10:10 AM

Session 2: AIRS Hyperspectral IR Science (Chair: Aumann)

10:30 - 12:00

George Aumann	JPL	Surface Temperature Sensitivity of the Frequency of DCC over Tropical Ocean	10:30 AM
Brian Kahn	JPL	A Global Climatology of Temperature and Water Vapor Variance Scaling from the Atmospheric Infrared Sounder	11:00 AM
Gyula Molnar	GSFC	Validation of AIRS Spatial Trends of Temperature, OLR, and Cloud Cover	11:20 AM
Ramesh Singh	George Mason University	Use of AIRS Data in Understanding Land-Ocean Atmosphere Coupling	11:40 AM

LUNCH

12:00 - 1:30 PM

Session 3: Trace Gas Products & Science I (Chair: Irion)

1:30 - 3:30

Bill Irion	JPL	Comparisons of AIRS Ozone with OMI and Coincident Ozonesondes	1:30 PM
Edward Olsen	JPL	CO ₂ Measurements from AIRS	1:50 PM
Breno Imbiriba	UMBC	AIRS Tropospheric CO ₂ /CH ₄ Retrievals	2:10 PM
Juying Warner	UMBC	AIRS V5 CO Profiles Compared with the Latest NASA Field Campaign Measurements	2:30 PM
Jasna Pittman/Laura Pan	UCAR	Evaluating Trace Gas Measurements from AIRS and IASI using In Situ Measurements from the NSF/NCAR HIAPER Aircraft During	2:50 PM
Wallace McMillan	UMBC	CO V5 Validation Update: What's next?	3:10 PM

BREAK

3:30 PM

Wallace McMillan	UMBC	A-Train Trace Gas Correlations: What are people doing?	3:50 PM
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Session 4: EPO and Data Support

4:10 - 5:10

Sharon Ray	JPL	AIRS Outreach	4:10 PM
Mike Theobald	GSFC	GES DISC Data Operations and Services	4:30 PM
Andrey Savtchenko	GSFC	Simple AIRS Applications at GES DISC	4:50 PM

ADJOURN

5:10 PM





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Wed. October 15, 2008

A.M. Light Refreshments: 7:30 - 8:00 a.m.

Session 5: Data Assimilation (Chair: Lambrigtsen)	8:00 - 10:20 AM
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*Tony McNally	ECMWF	ECMWF Update: AIRS and IASI Data	8:00 AM
*Ed Pavelin & Steven English	UK Met Office	UK Met Office Update	8:20 AM
Eugenia Kalnay	UMD	LETKF Assimilation of AIRS Humidity Retrievals and Preliminary Results of Assimilation of AIRS/AMSU Radiances	8:40 AM
Brad Zavodsky	NASA Huntsville	Regional Data Assimilation of AIRS Profiles and Radiances at the SPoRT Center	9:00 AM
Bryan Baum	University of Wisconsin	Recent Advances in the Development of Ice Cloud Bulk Scattering and Absorption Models for Use With Hyperspectral IR Data.	9:20 AM
Jim Jung	NASA	IASI Water Vapor Radiance Assimilation Experiments	9:40 AM
Oreste Reale	GSFC	AIRS Impact on Global Analysis and Forecast in the Tropics: The Case of Cyclone Nargis	10:00 AM
BREAK			10:20 AM

Session 6: Trace Gas Products & Science II (Chair: Irion)	10:40 - 12:20
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Robert K. Vincent	Bowling Green University	Critical Need for Quantitative Images of Lower Tropospheric Methane Content Along Continental Slopes (Offshore) and In	10:40 AM
Xiaozhen Xiong	NOAA	Update of NOAA AIRS Methane Retrieval, Validation and Usage	11:00 AM
Leonid Yurganov	UMBC	AIRS Methane Data for Siberia: Present and Future	11:20 AM
Sergio DeSouza-Machado	UMBC	AIRS Dust Retrieval Intercomparisons with MODIS, Parasol, OMI and Calipso	11:40 AM
Fred Prata	Norwegian Air Research	Exploiting High Spectral Resolution Satellite Data for Studies of Volcanic Emissions: AIRS and IASI Retrievals of SO ₂ , and Fine Ash	12:00 PM

LUNCH *12:20 - 1:30 PM*

Session 7: Temperature and Water Vapor Validation (Chair: Teixeira)	1:30 - 5:10
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Joao Teixeira	JPL	Validation Plan Status / Validation of AIRS Boundary Layer Structure in the Trade-Wind Region	1:30 PM
Mitch Goldberg	NOAA	Global Space-Based Inter-Calibration System (GSICS) Activities	1:50 PM
Bill Irion	JPL	Comparison of AIRS Water Vapor and Temperature Profiles with Dedicated Radiosondes	2:10 PM
Murty Divakarla	NOAA	Aqua-AIRS and MetOP-IASI Temperature and Water Vapor Retrievals - Evaluation with Global RAOBs and Model Forecasts	2:30 PM
Ju Mee Ryoo	Johns Hopkins University	Comparison of Tropospheric Humidity from AIRS, MLS, and Statistical and Trajectory Models	2:50 PM
John Forsythe	Colorado State	The NVAP Global Water Vapor Climate Data Record: Plans for Improvement and Extension from 1987-2010	3:10 PM
BREAK			3:30 PM
David Whiteman	NASA	Satellite Validation and Related Activities at the Howard University Beltsville Campus	3:50 PM
Glynn Hulley	JPL	Understanding the Differences between AIRS, MODIS and ASTER Land Surface Emissivity Products.	4:10 PM
Bob Knuteson	UW	Climate quality of AIRS total precipitable water vapor over land: validation of diurnal variations of AIRS TPW against the ground based microwave radiometer at the DOE ARM Souther Great Plains Site	4:30 PM
Nick Nalli	NOAA	RB-08-03 Interhemispheric Transit Cruise Summary	4:50 PM

ADJOURN **5:10 PM**

* Remote Presentation



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Thurs. October 16, 2008

A.M. Light Refreshments: 8:00 - 8:30 a.m.

Session 8: NPP CrIS/ATMS, Cal/Val Plans (Chair: Barnet)	8:30 - 9:50 PM
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Heather Kilcoyne	IPO	NPP/Cal Val Plan	8:30 AM
William Blackwell	MIT	ATMS Cal/Val Plan	8:50 AM
Gail Bingham	Utah State	CrIS SDR Cal/Val Plan	9:10 AM
Chris Barnet	NOAA	CrIS EDR Cal/Val Plan	9:30 AM

BREAK **9:50 AM**

Session 9: NPP CrIS/ATMS Readiness (Chair: Barnet)	10:10 - 2:50 PM
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Denise Hagan	NGST	Status of CrIS Pre-Launch Calibration	10:10 AM
Larrabee Strow	UMBC	CrIS Spectral Cal	10:30 AM
William Blackwell	MIT	Status of ATMS, Assessment of CrIMSS Performance Using IASI/AMSU Proxy Data	10:50 AM
David Staelin	MIT	AMSU Observations of Arctic Precipitation and Global Sets of Rain Gauges: Implications for ATMS and NPP	11:10 AM
Sid Boukabara	NOAA	Microwave Sounding in All-Weather Conditions and Plans for ATMS	11:30 AM
Stephen Beck	Aerospace Corp.	DMSP SSMIS Cal/Val Work	11:50 AM

LUNCH **12:10 - 1:30 PM**

Lars Peter Riishojgaard	NASA	JCSDA Plans for Cal/Val of CrIS and ATMS on NPP	1:30 PM
Joel Susskind	GSFC	Generation and Analysis of CrIS ATMS Proxy Data	1:50 PM
Nikita Pougatchev	SDL	CrIS EDR Validation Assessment Model: Test Case Study using IASI and AIRS Retrievals	2:10 PM
Bill Smith	LARC	Mesoscale Sounding Retrievals from IASI Radiance Spectra	2:30 PM

BREAK **2:50 PM**

Session 10: AIRS/IASI/CrIS Accuracy for Climate (Chair: Aumann)	3:10 - 4:10 PM
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Hartmut Aumann	JPL	AIRS/IASI Radiance Comparisons at JPL	3:10 PM
Dave Tobin	UW	Direct Radiance Comparisons Between AIRS and IASI Using Simultaneous Nadir Overpasses	3:30 PM
Hank Revercomb	UW	Radiance Accuracy Assessments of AIRS, IASI and CrIS with Implications for the CLARREO Mission	3:50 PM
Larrabee Strow	UMBC	IASI and AIRS Radiance Intercomparisons	4:10 PM

Session 11: NASA NPP Data Systems	4:10 - 5:10 PM
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Bob Schweiss	GSFC	SDS Status	4:30 PM
Steve Friedman	JPL	Sounder PEATE Status	4:50 PM

ADJOURN **5:10 PM**

Future of Atmospheric Sounding Science - Roundtable Discussion (Chair: Lambrigtsen)	5:30 - 9:30 PM
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Fri. October 17, 2008

A.M. Light Refreshments: 7:30 - 8:00 a.m.

Session 12: AIRS Calibration			8:00 - 9:30
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Denis Elliott	JPL	Changes To Spectral Calibration For V6	8:00 AM
Larrabee Strow	UMBC	LIC, Freq. Cal. And RTA	8:20 AM
Tom Pagano	JPL	AIRS Absolute Radiometric Accuracy and V6 Improvements	8:40 AM
Discussion			9:00 AM

BREAK ***9:30 AM***

Session 13: Version 6 Status and Plans			10:00 - Noon
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Steve Friedman	JPL	V6 Status	10:00 AM
Evan Manning	JPL	Assessing the Skill of Retrieval Algorithms	10:20 AM
Joel Susskind	GSFC	Status and Plans for V6	10:40 AM
Bill Irion	JPL	Plans for Investigating Time-Dependent Biases in AIRS Temperature Profiles	11:10 AM
Discussion			11:30 AM

ADJOURN ***12:00 PM***

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3:50 PM

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