



**AGENDA**  
**AIRS Science Team Meeting**  
**April 24-26, 2012**  
**Beckman Institute Auditorium**  
**Caltech, Pasadena, Ca**

**Tues. April 24, 2012**

*A.M. Light Refreshments: 7:30 - 8:00*

**Session 1: Introduction and Science Highlights** (Chair: Pagano)

Joao Teixeira	JPL	AIRS Science	8:00 AM
Ramesh Kakar	NASA HQ	Headquarters Perspective	8:25 AM
Thomas Pagano	JPL	AIRS Project Status and Future Applications	8:50 AM
Sharon Ray	JPL	AIRS EPO	9:15 AM
Denis Elliott	JPL	AIRS/AMSU/Aqua Operations Update	9:35 AM

**BREAK**

**10:00 AM**

**Session 2: Weather Forecasting** (Chair: Teixeira)

Bob Atlas	NOAA	NOAA's Hurricane Forecast Improvement Project	10:20 AM
Bradley Zavodsky	MSFC	Transition of AIRS Products to National Weather Service	10:45 AM
Hank Revercomb	Univ of Wisc	Performance of the Cross-track Infrared Sounder (CrIS) on Suomi NPP	11:10 AM
Dave Santek	Univ of Wisc	Using AIRS Moisture Retrieval Data to Derive Atmospheric Motion Vectors	11:35 AM

**LUNCH**

**12:00 - 1:30**

**Session 3: Temperature and Water Vapor Processes** (Chair: Fetzer)

Paul Dimotakis	Caltech/JPL	Retrieval of vertical T, H <sub>2</sub> O, O <sub>3</sub> , and CO <sub>2</sub> profiles with sensitivity analysis (SA) and uncertainty quantification (UQ)	1:30 PM
Baijun Tian	JPL	Intraseasonal temperature variability in the upper troposphere and lower stratosphere from the GPS RO and AIRS Instruments	1:55 PM
Joel Susskind	GSFC	AIRS products explain the close relationship between OLR anomalies and the El Nino Index	2:15 PM
Panagiotis Vergadoes	JPL	Exploring the complementary nature of AIRS and GPS observational data to retrieve tropospheric water vapor	2:45 PM

**BREAK**

**3:05 PM**

Baijun Tian	JPL	Evaluating CMIP5 models using AIRS observations	3:30 PM
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**Session 4: Climate** (Chair: Aumann)

Yuk Yung	Caltech	Principle modes of variability in the tropics from 9 years of AMSU data	3:50 PM
George Aumann	JPL	Nino34 correlations and implications for climate trend detection	4:10 PM
Larrabee Strow	UMBC	Comparison of AIRS Radiance PDF's with ERA Re-analysis Simulated PDFs	4:30 PM
Alexander Ruzmaikin	JPL	Trends in tropical circulation over the Pacific in the last decade (based on AIRS)	4:50 PM
Alexandre Guillaume	JPL	A deterministic annealing approach to clustering AIRS data	5:10 PM

**ADJOURN**

**5:30 PM**



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**Wed. April 25, 2012**

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

**Session 5: Cloud Processes** (Chair: Kahn)

Brian Kahn	JPL	New AIRS Version 6 cloud top retrievals of ice cloud properties and thermodynamic phase	8:00 AM
Dong Wu	GSFC	Studying global cloud morphology and variations with AIRS cloud-cleared radiances (CCRs)	8:25 AM
Mathias Schreier	JPL	Statistical moments of subtropical cloud transition: Observations of AIRS+MODIS in comparison to ERA-r0	8:50 AM

**Session 6: NPP CrIMSS Calibration and Validation** (Chair: Lambrigtsen)

TBD		TBD	9:15 AM
Denis Tremblay	NOAA-STAR	NOAA-STAR CRIS SDR Calibration and Validation: Preliminary Results	9:40 AM
<b>BREAK</b>			<b>10:05 AM</b>
Murty Divakarla	NOAA	Preliminary evaluation of NPP-CrIMSS Edrs with Heritage Algorithm (Aqua-AIRS) Retrievals	10:35 AM
Michael Starch	JPL	NPP Sounder PEATE Operations Overview	11:00 AM

**Session 7: V6 Atmospheric Composition** (Chair: Olsen)

Ed Olsen	JPL	Status of L6 Testing of AIRS CO2 retrievals and plans for the future	11:25 AM
All		Discussion	11:50 AM
<b>LUNCH</b>			<b>12:00 - 1:30</b>
Hai Nguyen	JPL	Geospatial interpolation of AIRS mid-tropospheric CO2	1:30 PM
Xun Jiang	University of Houston	Variations of AIRS CO2 in the High Latitudes	1:55 PM
Junjie Liu	JPL	Analysis of AIRS CO2 sensitivity to surface CO2 flux using GEOS-chem adjoint model	2:20 PM
<b>BREAK</b>			<b>2:45 PM</b>
Andy Tangborn	UMBC	Assimilation of AIRS CO2 retrievals from 2 distinct wavelengths	3:10 PM
Pagano, Thomas	JPL	Influence of global vegetation on mid-tropospheric CO2: early results	3:35 PM
Eric Maddy	NOAA	On the effects of dust on AIRS and IASI Operational L2 Products	4:00 PM
Xiaozhen Xiong	NOAA	Status of AIRS Version 6 CH4 testing and validation	4:25 PM
All		V7 Ideas and Planning Discussion	4:50 PM
<b>ADJOURN</b>			<b>5:30 PM</b>



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**Thurs. April 26, 2011**

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

**Session 8: Version 6 Development Status and Tools** (Chair: Friedman)

Steve Friedman	JPL	V6 Summary Status and Schedule	8:00 AM
Thomas Hearty	GSFC	Preparation for Version 6 and New Features at the GES-DISC	8:25 AM

**Session 9: Version 6 Product Testing and Validation** (Chair: Lambrigtsen)

Van Dang	JPL	An Overview of the AIRS V6 Testing Results	8:50 AM
Bill Blackwell	MIT	Recent validation results from the SCC/NN algorithm	9:15 AM
<b>BREAK</b>			<b>9:40 AM</b>
Joel Susskind	GSFC	SRT Evaluation of AIRS Science Team Version 6.02 products	10:05 AM
Bill Irion	JPL	Biases and bias trends of AIRS temperatures compared to PrepQCsonds	10:45 AM
Sun Wong	JPL	Testing AIRS V6 temperature and water vapor products using dedicated sondes and MERRA	11:10 AM
Glynn Hully	JPL	AIRS V6 Land Surface Products Assessment	11:35 AM

**LUNCH**

**12:00 - 1:30**

Larrabee Strow	UMBC	Evaluation of V6 cloud-cleared radiances and L2 error covariances (V6 talk)	1:30 PM
Qing Yue	JPL	Testing the AIRS V6 Convection Parameters	1:55 PM
Bjorn Lambrigtsen	JPL	V6 microwave test results	2:20 PM
Eric Fetzer	JPL	Version 5 and 6 Validation and ATBD	2:45 PM

**BREAK**

**3:10 PM**

**Session 10: Instrument Calibration** (Chair: Elliott)

Steve Broberg	JPL	Channel Recovery Results	3:35 PM
TBD			4:00 PM
George Aumann	JPL	L1B Trends using Obs Minus Calc	4:25 PM
All		Action Items	4:50 PM

**ADJOURN**

**5:30 PM**