



Agenda
AIRS Science Team Meeting
April 26-28, 2011
Caltech, Pasadena, Ca
In Memory of Dr. Mous Chahine, AIRS Science Team Leader

Tues. April 26, 2011

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

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

All		Welcome and Introductions	8:00 AM
Tom Pagano	JPL	Project Status and Meeting Dedication	8:20 AM
Ramesh Kakar	NASA HQ	Headquarters Perspective	8:40 AM
Bob Atlas	NOAA	Outstanding Presentation Award at AMS Session: (IOAS-AOLS) to Dr. Mous Chahine	8:50 AM
Eric Fetzer	JPL	Recent Science Highlights and Summary Report from the November Sounder Science Workshop	9:10 AM
George Aumann	JPL	V6 Science Objectives and Status, V7 Objectives	9:40 AM
BREAK			10:10 AM
Steve Friedman	JPL	AIRS Product Development - The AIRS Software Development System	10:40 AM
Denis Elliott	JPL	Aqua Mission/AIRS Instrument Operations and Overall L1 Status Report	11:00 AM

Session 2: Climate (Chair: George Aumann)

Eric Fetzer	JPL	Diagnosing AIRS Sampling with CloudSat Cloud Classes	11:20 AM
Joao Martins	University of Lisbon	Towards a climatology of Boundary Layer Height using remote sensing observations	11:40 AM
LUNCH			12:00 - 1:30
Mathias Schreier	JPL	Combining AIRS and MODIS for Cloud Observations: The annual variability of spectra and atmospheric properties for selected types of clouds	1:30 PM
Larrabee Strow	UMBC	New Science from AIRS: Turning our Noise into Signal	1:50 PM

Session 3: COMPOSITION (Chair: Olsen)

Ed Olsen	JPL	Reaching for the Middle Troposphere and Lower Troposphere for AIRS CO ₂ retrievals - progress toward the retrieval of a profile	2:10 PM
Jungie Liu	JPL	Quantification of the relationship between AIRS XCO ₂ and surface CO ₂ & surface CO ₂ flux estimation with OSSE	2:30 PM
BREAK			2:50 PM
Larrabee Strow	UMBC	UMBC Tropospheric CO ₂ Retrievals and Assimilation in GEOS-5	3:10 PM
Tom Pagano	JPL	AIRS Mid-Tropospheric CO ₂ Climatologies	3:30 PM
Xun Jiang	University of Houston	Influence of Tropospheric Biennial Oscillation on AIRS CO ₂	3:50 PM
Sharon Ray	JPL	AIRS Education and Public Outreach	4:10 PM
All		Discussion	4:30 PM
ADJOURN			5:30 PM



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Wed. April 27, 2011

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

Session 4: Circulation and Precipitation (Chair: Lambrigtsen)

All		Welcome Discussion	8:00 AM
Haddad Ziad	JPL	Detection, retrieval and uncertainty estimation of polar precipitation using CloudSat, AMSR-E, AIRS and high-microwave-frequency radiometers	8:30 AM
Sun Wong	JPL	Linking AIRS Water Vapor to Remote-Sensing Precipitation and Surface Evaporation: A Way to Understand Global Hydrologic Cycle	8:50 AM
Joan Alexander	NWRA	Atmospheric Circulation Effects of Mountain Waves in the Southern Hemisphere deduced from AIRS Radiance Measurements	9:10 AM

Session 5: Level 3 Products (Chair: Teixeira)

Joao Teixeira	JPL	Satellite Observations for CMIP5/IPCC Simulations	9:30 AM
Baijun Tian	JPL	Proposed Improvements in V6 L3 products and new gridded AIRS products for IPCC/AR5 assessment	9:50 AM

BREAK

10:10 AM

Session 6: V6 Retrieval Status (Chair: Friedman)

Steve Friedman	JPL	Progress Towards the Release of V6: Schedule and Status	10:40 AM
Susskind, Joel	GSFC	Status and plans for Version-6 at SRT	11:00 AM
Blackwell, Bill	MIT	"Update on SCC/NN development"	11:40 AM

LUNCH

12:00 - 1:30

Manning, Evan	JPL	AIRS v5 to v6: Forensic Analysis and Final Work	1:30 PM
Kahn, Brian	JPL	Version 6 cloud thermodynamic phase, cirrus cloud optical thickness, and effective diameter	1:50 PM
Hearty, Thomas	GSFC	GES DISC improvements and preparations for AIRS V6	2:10 PM
Eric Maddy	NOAA/NESDIS E/RA1	AIRS L2 Product error characterization: propagation of internal error estimates	2:30 PM

BREAK

2:50 PM

Session 7: V6 Validation Status (Chair: Fetzer)

Warner, Juying	UMBC	AIRS V6 CO Testing and Preliminary Validation	3:10 PM
Irion, Frederick	JPL	Bias and Bias Trend Comparisons for V5 and V6 candidates	3:30 PM
Ruzmaikin, Alexander	JPL	On correlations and serial correlations of AIRS's T and q profiles	3:50 PM
Hulley, Glenn	JPL	AIRS Version 6 Surface Temperature and Emissivity Assessment	4:10 PM
Dang, Van	JPL	The Comparison of AIRS Candidate V6 Cloud Top Properties to AIRS V5, CloudSat, and CALIPSO	4:30 PM
Sun Wong	JPL	Validation of AIRS Version 5 and Candidate V6 Temperature Profiles with GPS RO and Skill Score Against Sonde Data	4:50 PM
All	All	Discussion	5:10 PM

ADJOURN

5:30 PM



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Thurs. April 28, 2011

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Session 8: NPP Sounder Team (Chair: Bjorn Lambrigtsen)

All		Welcome Discussion	8:00 AM
Bjorn Lambrigtsen	JPL	NPP after launch: Characterizing ATMS performance	8:20 AM
	JPL		
Evan Fishbein		Climate Data Record Assessments for the Cross-track Infrared Microwave Sounder Suite Using Simulated Data and Retrieval Algorithm Diagnostics	8:40 AM
Larrabee Strow	UMBC	CrIS Validation Plans: Radiometric and Spectral	9:00 AM
Blackwell, Bill	JPL	ATMS post-launch activities: MIT-LL plans and status.	9:20 AM
Brian Kahn	JPL	Scale dependence of temperature and water vapor from AIRS, aircraft, and model observations: Continuation into the NPP/JPSS era	9:40 AM
BREAK			10:00 AM
Evan Fishbein	JPL	Sounder PEATE Data Products Supporting CrIMSS Assessment	10:20 AM
Steve Friedman	JPL	NPP Sounder PEATE: Status and Plans	10:40 AM
All		Discussion	11:00 AM

LUNCH

12:00 - 1:30

Session 9: Level 1 & Calibration (Chair: Elliott)

Denis Elliott	JPL	IR Radiometric Calibration Update	1:30 PM
Aumann, George	JPL	Evaluation of AMSU measurement stability using eight years of AIRS data	1:50 PM
Manning, Evan	JPL	V6 Level 1-C	2:20 PM
Broberg, Steve	JPL	Confirming Vis/NIR channel calibration trends using Deep Convective Clouds	2:40 PM

BREAK

3:00 PM

Session 10: V7 Discussion (Chair: Friedman)

All		Discussion Topic: V7	3:30 PM
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ADJOURN

5:30 PM