



Agenda
AIRS Science Team Meeting
March 17 - 19, 2014
Caltech
Pasadena, Ca

Monday, March 17, 2014

Morning Refreshments: 8:00 - 8:30

Session 1: Climate Science Invited Talks (Chair: Joao Teixeira)

Joao Teixeira Tom Pagano	NASA JPL	Introduction	8:30 AM
Ramesh Kakar	NASA HQ	Headquarters Perspective	8:45 AM
Graeme Stephens	NASA JPL	Invited Talk: Toward Understanding Earth's climate from a perspective from space	9:00 AM
BREAK			10:00 AM
Norman Loeb	NASA	Invited Talk: Observing Interannual Variations in Hadley Circulation Atmospheric Diabatic Heating and Circulation Strength	10:30 AM
Andrew Dessler	Texas A&M	Invited Talk: Investigating the tropospheric and stratospheric water vapor feedbacks using satellite data	11:30 AM

LUNCH

12:30 PM

Session 2: Climate Science, Part I (Chair: Eric Fetzer)

Joan Alexander	NWRA	Southern Hemisphere Wind Biases in Climate Models and Missing Gravity Waves: What can AIRS Observations Tell Us?	2:00 PM
Sun Wong	NASA JPL	Extreme Weather Events Observed by the Atmospheric Infrared Sounder (AIRS)	2:30 PM
Larrabee Strow	UMBC	10-Years of Intercomparisons of AIRS and ERA-Interim via PDFs	3:00 PM
BREAK			3:30 PM
Junjie Liu	NASA JPL	Lessons learned from AIRS mid tropospheric CO2 and the future opportunities	4:00 PM
Catherine Naud	Columbia University	Cloud processes in midlatitude cyclones	4:30 PM
Gerald Potter	NASA GSFC	Using multiple reanalyses to help diagnose the long wave clear-sky difference between models and observations	5:00 PM
Hui Su	NASA JPL	Convective mixing, lower tropospheric stability and low cloud feedback	5:30 PM

ADJOURN

6:00 PM

Group Dinner

6:30 PM



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Session 3: Climate Science Part 2 (Chair: Brian Kahn)

Joel Susskind	NASA GSFC	Surface and Atmospheric Response to El Nino Activity	8:30 AM
George Aumann	NASA JPL	Climate lessons from 12 years of AIRS and 2 years of CrIS data	9:00 AM
Alexander Ruzmaikin	NASA JPL	AIRS & CERES & Model Earth's Radiative Components	9:30 AM
BREAK			10:00 AM
Joao Teixeira	NASA JPL	Satellite remote sensing of the atmospheric boundary layer	10:30 AM
Peter Kalmus	Caltech/JPL	Observational Boundary Layer Energy and Moisture Budgets of the Stratocumulus-to-Cumulus Transition	11:00 AM
Brian Kahn	NASA JPL	Temperature and water vapor variance scaling of satellite, surface-based, aircraft, and climate model data sets: A perspective	11:30 AM
Darren Drewry	NASA JPL	AIRS, Climate and Vector-Borne Disease	12:00 PM

LUNCH

12:30 PM

Session 4: Climate Science Part 3 (Chair: George Aumann)

Eric Fetzer	NASA JPL	What can we learn from 11 years of AIRS Observations?	2:00 PM
Mathias Schreier	NASA JPL	10 years of measurements from AIRS by using cloud state classification as derived from MODIS	2:30 PM
Baijun Tian	NASA JPL	The Application of AIRS Data in the Madden-Julian Oscillation Studies	3:00 PM
BREAK			3:30 PM
Qing Yue	NASA	Investigation of Cloud-Topped Marine Boundary layer Using AIRS/AMSU data	4:00 PM
Evan Fishbein	NASA JPL	Ten years of variability in the tropical tropopause as observed by AIRS	4:30 PM
Ali Behrangi	NASA JPL	On the net surface water exchange rate estimated from remote sensing observation and reanalysis	5:00 PM
Timothy Liu	NASA JPL	Upper Atmosphere Signature of Mid-latitude Ocean Fronts	5:30 PM

ADJOURN

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Session 5: AIRS Atmospheric Composition Products (Chair: Ed Olsen)

<i>Shawn (Xiaozhen) Xiong</i>	<i>NOAA</i>	<i>Validation of AIRS-V6 CH4 product and recent progress in AIRS N2O product</i>	8:30 AM
Juying Warner	UMBC	Separating recent emissions from background CO	9:00 AM
Ed Olsen	NASA JPL	AIRS CO2 Science Highlights and Project Status	9:30 AM

BREAK

10:00 AM

Session 6: Sounding, Cal/Val, V7 and Processing Tools (Chair: Tom Pagano)

Xavier Calbet	EUMETSAT	Co-location of GRUAN radiosounds and IASI Infrared Hyperspectral Measurements	10:30 AM
Larrabee Strow	UMBC	Full Spectrum Intercalibration of AIRS and CrIS	11:00 AM
Joel Susskind	NASA GSFC	Status and Plans for Version 7 at SRT	11:30 AM
Thomas Hearty	NASA	AIRS Version 6 at the GES DISC: Processing, New Related Products, and Giovanni	1:30 PM
Bill Blackwell	MIT Lincoln Lab	Assessment of Neural Network Retrieval Accuracy and Resolution	2:00 PM
Van Dang	NASA JPL	Validation of AIRS V6 Near Surface Air Temperature and Sea Surface Temperature	2:30 PM

BREAK

3:00 PM

Session 7: Discussion (Chair: Eric Fetzer)

All	All	Discussion: Using AIRS to Understand Decadal Variability and Trends	3:30 PM
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ADJOURN

5:30 PM