



# AIRS Science Team Meeting Agenda

## April 3-5, 2019 at Caltech, Pasadena, Ca

**Wednesday, April 3, 2019**

***Light Morning Refreshments: 8:00 - 8:30 AM***

Name	Presentation	Affiliation	Time
<b>Session 1: Introduction (Chair: Joao Teixeira)</b>			
Joao Teixeira	Introduction to the AIRS STM	JPL	8:30 AM
Gail Skofronick-Jackson	Perspective from NASA HQ	NASA HQ	8:50 AM
Tom Pagano	AIRS Project Status	JPL	9:10 AM
Ruth Monarrez	Sounder SIPS Project Status	JPL	9:30 AM
<b>Session 2: Weather and Climate (Chair: Eric Fetzer)</b>			
Xianglei Huang	Trends of spectral outgoing longwave radiation and greenhouse efficiencies in the Arctic from 2003-2016	University of Michigan	9:50 AM
Brian Kahn	Extratropical to polar latitude trends in cloud amount, temperature, and thermodynamic phase from the Atmospheric Infrared Sounder	JPL	10:10 AM
<b><i>AM Break</i></b>			<b><i>10:30 AM</i></b>
Larrabee Strow	Climate Hyperspectral InfraRed Product (CHIRP): Radiometric Stability and Trends	University of Maryland	10:50 AM
George Aumann	AIRS data vs. CIMP5: Is the Earth darkening?	JPL	11:10 AM
John Blaisdell	AIRS Contribution to Assessment of Recent Global Warming	NASA GSFC	11:30 AM
Xu Liu	Spectral Fingerprinting of Hyperspectral Sounder Data	NASA Langley	11:50 AM
Erica McGrath-Spangler	Progress toward a comprehensive cloud-cleared AIRS-CrIS radiance assimilation strategy	NASA GSFC	12:10 PM
<b><i>Lunch</i></b>			<b><i>12:30 PM</i></b>
Chris Barnet	Use of radiances in data assimilation: Overview of an observing system experiment (OSE) using CrIS SWIR Channels	Science and Technology Corporation	1:30 PM
Peter Kalmus	Trajectory-enhanced AIRS observations of environmental factors driving severe convective storms	JPL	1:50 PM
Joao Teixeira	The PBL Thermodynamic Structure from Space	JPL	2:10 PM
Robert Wilson	Sensitivity for current IR sounders to Planetary Boundary Layer Water Vapor	Raytheon	2:30 PM
Baijun Tian	The sampling bias analysis of the AIRS Obs4MIPs V2 data set	JPL	2:50 PM
<b><i>PM Break</i></b>			<b><i>3:10 PM</i></b>
<b>AIRS Level 1 Panel Discussion (Closed session): 3:30 - 5:30 PM</b>			
<b><i>Adjourn</i></b>			<b><i>5:30 PM</i></b>



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Thursday, April 4, 2019

**Light Morning Refreshments: 8:00 - 8:30 AM**

Name	Presentation	Affiliation	Time
<b>Session 2: Weather and Climate (Chair: Eric Fetzer) CONTINUED FROM YESTERDAY</b>			
Hai Nguyen	Regime clustering of atmospheric cloud states over land through self-organizing maps	JPL	8:30 AM
<b>Session 3: Atmospheric Composition (Chair: Vivienne Payne)</b>			
Juying Warner	AIRS Methane Revisited and Comparisons to CrIS Retrievals	University of Maryland	8:50 AM
King-Fai Li	An attempt to simulate the intraseasonal variability in CO2 observed by AIRS	University of California, Riverside	9:10 AM
Vivienne Payne	CrIS Observations of Atmospheric Composition in fire plumes over the Western US in summertime.	JPL	9:30 AM
Helen Worden	19 Years of MOPITT Carbon Monoxide Data: Extending the record with SNPP/CrIS and S5P/TROPOMI	University Corporation for Atmospheric Research	9:50 AM
Kazuyuki Miyazaki	AIRS/OMI Tropospheric ozone assimilation and chemical reanalysis during the NASA KORUS-AQ aircraft campaign	JPL	10:10 AM
<b>AM Break</b>			<b>10:30 AM</b>
Robert Herman	Updated Comparison of Optimal Estimation HDO/H2O Retrievals from AIRS with ORACLES measurements	JPL	10:50 AM
Le Kuai	Hyperspectral Thermal Emission Spectrometer (HyTES): An Airborne Imager of Methane and Ammonia Point Sources	Caltech	11:10 AM
Evan Fishbein	The 2015 Antarctic Ozone Hole as Observed by AIRS	JPL	11:30 AM
<b>Session 4: Applications (Chair: Sharon Ray)</b>			
Sharon Ray	AIRS Applications & User Services: Overview of Activities	JPL	11:50 AM
Vincent Realmuto	Plume Spectroscopy: Spectral Analysis of the Composition of Heterogeneous Volcanic Plumes	JPL	12:10 PM
<b>Lunch</b>			<b>12:30 PM</b>
Paulo Penteadó	Exploring, analyzing and visualizing the AIRS archive with the HyDE database tool	JPL	1:30 PM
Alireza Farahmand	Utilizing AIRS Observations for Improving Agro-Meteorological Droughts: Applications to US Drought Monitor	JPL	1:50 PM
Elizabeth Traub	Influenza Decision Support in Los Angeles County	Los Angeles Department of Public Health	2:10 PM
Heidar Thrastarson	The AIRS Humidity-Based Prediction System for Seasonal Influenza	JPL	2:30 PM
<b>Session 5: Retrievals and Validation (Chair: Bjorn Lambrigtsen)</b>			
Qing Yue	Retrieval and Sampling Biases of AIRS Temperature and Humidity Profiles by Cloud and Surface Conditions	JPL	2:50 PM
Sun Wong	Validation of AIRS V6.55 T and q profiles against IGRA and AWI radiosondes	JPL	3:10 PM
<b>PM Break</b>			<b>3:30 PM</b>
Berry Wen	Testing analysis of AIRS V6 and candidate V7 near surface air temperature and water vapor against ground measurements from MesoWest	University of Oklahoma	3:50 PM
John Blaisdell	A First Look at JPL Version 6.55 AIRS-Only	NASA GSFC	4:10 PM
Chris Barnet	CLIMCAPS-SNPP and CLIMCAPS-Aqua: Recent results and future plans	Science and Technology Corporation	4:30 PM
Bill Irion	Updates on single-footprint retrievals from AIRS, and preliminary comparisons of AIRS V6.6.5 with ozonesondes and PREPQC sondes	JPL	4:50 PM
Greg Elsaesser	Planetary boundary layer thermodynamics near deep convection: comparisons between multiple standard Level-2 and single-FOV retrieval	NASA GISS	5:10 PM
<b>Adjourn</b>			<b>5:30 PM</b>
<b>Dinner - 6:00 PM</b>			



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**Friday, April 5, 2019**

**Light Morning Refreshments: 8:00 - 8:30 AM**

Name	Presentation	Affiliation	Time
<b>Session 5: Retrievals and Validation (Chair: Bjorn Lambrigtsen) CONTINUED FROM THURSDAY</b>			
John Hobbs	Simulation-Based Uncertainty Quantification for the AIRS Retrieval in Multiple Marine Cloud Regimes	Caltech	8:30 AM
Adam Milstein	Neural Network Retrievals and the Planetary Boundary Layer	MIT Lincoln Laboratory	8:50 AM
Larrabee Strow	AIRS Radiative Transfer Algorithm Status	University of Maryland	9:10 AM
Peter Kalmus	Update on AIRS+CrIS data fusion of near-surface T, RH, and VPD	JPL	9:30 AM
<b>Session 6: Calibration and Level 1 (Chair: Steve Broberg)</b>			
Steve Broberg	AIRS Calibration Update	JPL	9:50 AM
Larrabee Strow	AIRS Frequency Drift and Doppler corrections in L1c	University of Maryland	10:10 AM
<b>AM Break</b>			<b>10:30 AM</b>
George Aumann	Trends in the AIRS L1b V5	JPL	10:50 AM
Robert Wilson	Possible Shortwave Contamination in AIRS due to Near Field Response	Raytheon	11:10 AM
George Aumann	The L1b V7 Lien List	JPL	11:30 AM
Tom Pagano	AIRS Calibration Updates for Climate Benchmarking	JPL	11:50 AM
<b>Science Discussion 12:10 - 1:00 PM</b>			
<b>Adjourn</b>			<b>1:00 PM</b>