



Virtual 2021 AIRS/Sounder Science Team Meeting Agenda

(Times indicated are Pacific time)

Tuesday, May 18, 2021

Retrievals and validation

Chair: Bjorn Lambrigtsen

Time (PDT)	Name	Presentation	Affiliation
9:00 AM	Joao Teixeira, Tom Pagano, Chris Barnet, Eric Fetzer	Welcome and Opening Remarks	JPL, STC
9:10 AM	Qing Yue	Summary of the JPL Validation Studies on Version 2 CLIMCAPS-Aqua Level 2 Retrieval Products	JPL
9:30 AM	Tao Wang	CLIMCAPS-Aqua temperature and water vapor profiles comparing to AIRS v7 and IGRA	JPL
9:50 AM	Nadia Smith	NUCAPS Aqua: algorithm description and real-time processing	STC
10:10 AM	Bill Irion	Progress on single-foot retrievals: Testing and getting it production ready	JPL
10:30 AM	Xu Liu	Weather and Climate studies using Single FOV Optimal Estimation and Spectral Fingerprinting Methods	NASA LaRC
AM Break: 10:50 - 11:10			
11:10 AM	Adam Milstein	Neural Network-Enhanced Retrievals	MIT
11:30 AM	Issac Moradi	Performance of radiative transfer models in the microwave region	UMD
11:50 AM	Vivienne Payne	An overview of ongoing validation of TROPES composition products	JPL
12:10 PM	Jonathan Hobbs	Uncertainty Quantification for AIRS Near-Surface Retrievals Over CONUS	JPL
12:30 PM	Larrabee Strow	A Proposal to Store the Transpose of AIRS L1C in the Cloud for Climate Research	UMBC
12:50 PM	Sergio DeSouza-Machado	Optimal Estimation Retrievals of Atmospheric Profiles/Surface from Gridded Radiance Anomalies	UMBC
1:10 PM	Larrabee Strow	Simple, Fast Climate-Level Surface Temperature Trends from AIRS L1c: Comparisons to AIRS Level 2/3	UMBC

End of Session: 1:30 PM




Wednesday, May 19, 2021

Retrievals and validation (continuation)

Chair: Bjorn Lambrigtsen

Time (PDT)	Name	Presentation	Affiliation
9:00 AM	Evan Fishbein	An Assessment of Vertical Resolution of AIRS T,q, and O3 products based on Averaging Kernels	JPL
9:20 AM	Nicholas R. Nalli	Analyzing sea surface emissivity updates using kCARTA	NOAA
9:40 AM	Chris Hepplewhite	SARTA RTA Status and Improvements	UMBC
Calibration and L1 Chair: Steven Broberg			
10:00 AM	Steve Broberg and William Mathews	Aqua and AIRS Operations Status and AIRS Calibration Update	JPL
10:20 AM	Evan Manning	Upcoming product release: V7.1 AIRS L1B and L1C	JPL
10:40 PM	Igor Yanovsky	Latest developments in Characterization of AIRS Spatial Response Functions	JPL
AM Break: 11:00 - 11:20 AM			
11:20 AM	George Aumann	Lessons from two years of AIRS and CrIS SNPP and JPSS	JPL
11:40 PM	Joe Taylor	The CrIS NASA L1B Product: Status, Assessment, and Plans	UW-SSEC
12:00 PM	Joe Taylor	Doppler Shift Correction in the CrIS L1B Product	UW-SSEC
12:20 PM	Changyong Cao	From HIRS to IASI/AIRS: Retrospective spectral calibration towards a 40+ year temperature sounding time series for climate studies	NOAA
12:40 PM	Larrabee Strow	The Climate Hyperspectral Infrared Radiance Product (CHIRP): Status and Validation	UMBC

1:00 PM	Larrabee Strow	AIRS Radiance (L1C, CCleared) Calibration/Validation Needs for Climate Research	UMBC
<i>End of Session: 1:20 PM</i>			
			
	Thursday, May 20, 2021 Applications Session Chair: Sharon Ray		
Time (PDT)	Name	Presentation	Affiliation
9:00 AM	Sharon Ray	Session Rules & Opening Remarks	JPL
9:05 AM	Sharon Ray	AIRS Applications Overview, Status and Plans for Drought & Volcanic Plume Detection Applications	JPL
9:25 AM	Rebekah Esmaili	Demonstrating and adapting satellite soundings for operational weather forecasting	STC
9:45 AM	Jeff Szkodzinski	Real-time Skew-T display and stability analysis of satellite soundings using the open-source SHARPPy toolkit	STC
10:05 AM	Emily Berndt	Multi-satellite assessment of hyperspectral infrared retrievals to support pre-convective forecasting	NASA GSFC
10:25 AM	Alireza Farahmand	Introducing Spatially Distributed Fire Danger from Earth Observations (FDEO) using Satellite-based Data in the Contiguous United States	JPL
10:45 AM	Heidar Thrastarson	AIRS and Respiratory Disease: Humidity-Based Influenza Forecasting	JPL
11:05 AM	Sharon Ray	Closing Remarks Q&A	JPL
<i>End of Session: 11:15 AM</i>			