GPM X-Cal Meeting
and
NOAA AMSU/MHS/SSMT2 CDR Workshop

March 2-4, 2011

ESSIC @ M-Square

College Park, MD

Logistics and Other Information

- Loading your presentations
- Restrooms
- Food & Beverages
  - Breakfast and Lunch on Thurs
  - Snacks
  - Need your contributions!
- Wireless – “ESSIC” open network
- Around the room introductions
- Group Photo at coffee break
- Pay as you go dinner tonite?
- Web site – will upload presentations
- We will put together ~10 page workshop report

NOAA Workshop on Climate Data Records from Satellite Passive Microwave Sounders – AMSU / MHS / SSMT2 - Agenda

Wednesday, March 2, 2011

Time	Presentations / Topics	Speaker
1:00 PM	*Welcome, goals, logistics*	R. Ferraro, H. Meng, J. Luo, A. Busalacchi
Session 1 - Overviews		--
1:15 PM	*CDR Program - Precipitation*	B. Nelson
1:30 PM	*STAR's Contributions to the CDR Program*	M. Goldberg
Session 2 - AMSU-A		--
1:45 PM	*AMSU CDR Project - Overview*	H. Meng
2:00 PM	*Intersatellite/Intersensor Calibration of Microwave Radiometers over Antarctica*	T. Mo
2:30 PM	*AMSU-A Asymmetry*	W. Yang
3:00 PM	*Coffee Break*	--
3:15 PM	*A Brief Overview of AMSU-A Intercalibration using the SNO Method*	R. Iacovazzi
3:35 PM	*An update on the NOAA MSU/AMSU/SSU sounding CDR development*	C. Zou
Session 3 - AMSU-B/MHS		--
3:55 PM	*AMSU-B/MHS Asymmetry*	C. Devaraj
4:15 PM	*Title TBD*	J. Ackermann/TBC
4:45 PM	*Discussions - AMSU-A, AMSU-B, MHS*	All
5:15 PM	*Workshop Ends for the Day - Possible Group Dinner at 6:00 pm*	--

Thursday, March 3, 2011

Time	Presentations / Topics	Speaker
Session 4 - SSMT/2 and Beyond		--
8:30 AM	*SSMT/2 and MOZAIC: Bringing Together Satellite and Aircraft Long-Term UTH Measurements*	J. Luo
9:00 AM	*An A-Train Water Vapor CDR using Cloud Classification*	E. Fetzer
9:30 AM	*A Multi-Sensor Perspective on the Tropical Interannual Variability of Humidity and Clouds*	C. Liang
10:00 AM	*Coffee Break*	--
Session 5 - Other Topics		--
10:20 AM	*Non-linear trends in AMSU*	F. Weng
10:50 AM	*Geolocation Errors in AMSU/MHS*	I. Moradi
11:10 AM	*Optimizing and Validation of ATMS CDR's*	B. Blackwell
11:40 AM	*Monitoring the JASON-2 AMR Stability using SNO Observations from AMSU and MetOp and NOAA Satellites*	R. Chen
12:00 PM	*Eat-In/Working Lunch*	--
12:30 PM	*Plenary - List and rank major sources of errors, and difficulty in resolving them, etc.*	All
2:30 PM	*Wrap Up*	--
3:00 PM	*Workshop Ends*	--

CDR Workshop Goals and Expectations

- Build off success of March 2010 SSM/I & MSU/AMSU CDR Workshop
- Learn about AMSU/MHS/SSMT2 sensor characteristics from experts in the field
  - How these relate to our ability to generate CDR's related to the **hydrological cycle**
    - **Mainly focused on window and water vapor channels**
- Identify problem areas and most viable means to characterize them
  - What can be accomplished in the next 1-2 years?
- Develop a roadmap for the CDR maturity

Key Scientific Questions

- What is the preferred method(s) to:
  - Compute AMSU/MHS across scan bias
  - Characterize RFI
  - Perform intersatellite calibration
  - Geolocation
  - Orbital Drift
- How best to utilize CRTM for window and H2O channels?
- What tools can we leverage from other ongoing activities in CDR and X-Cal?
- How important are diurnal cycle affects
  - On calibration
  - On the TCDR's

AMSU/MHS CDR Issue Matrix

Issue	Magnitude	Status	Priority
Across Scan Bias			
Intersatellite Calibration			
Orbital Drift			
Orbital Decay			
Sensor RFI			
Channel Loss			
Metadata			
QC of Level 1			
Geolocation			