Second NOAA/NESDIS
Cooperative Research Program Annual Science Symposium

SATELLITE CALIBRATION & VALIDATION

July 13-14, 2005

Pyle Center, 702 Langdon Street
University of Wisconsin-Madison
http://cimss.ssec.wisc.edu/corp/

Wednesday Afternoon 13 July 2005

Introduction   Chair: Jeff Key, NOAA

1300	Introductory Remarks/Logistics/Agenda	Jeff Key, NOAA
1310	Welcome	Steve Ackerman, SSEC
1320	The Cooperative Institutes and NESDIS	Al Powell, NOAA
1335	The Big Picture of Cal/Val	Paul Menzel, NOAA
1400	Overview of Cooperative Institute Cal/Val Activities	
	Cal/Val Activities at CIOSS	Ted Strub, CIOSS
	Cal/Val Activities at CIMSS	Steve Ackerman, CIMSS
	Cal/Val Activities at CIRA	Don Hillger, NOAA/CIRA
	Cal/Val Activities at CICS	Andy Harris, CICS
	Cal/Val Activities at CREST	Reza Khanbilvardi, CREST

1500   Break

Radiance Calibration and Validation   Chair: Tim Schmit, NOAA

1515	AVHRR Visible Band Calibration/Intercalibration	Andy Heidinger, CIMSS
1530	MODIS Radiance Calibration	Chris Moeller, CIMSS
1545	Using AIRS to Assess MODIS Radiances	Dave Tobin, CIMSS
1600	AIRS/GEO Infrared Intercalibration	Mat Gunshor, CIMSS
1615	Using Sun Glint and Antarctic Ice Sheets to Calibrate MODIS and AVHRR Observations of Reflected Sunlight	Bill Tahnk, CIOSS
1630	Poster Introductions	Poster authors

1645	*Poster Reception*	Poster authors

1800   Banquet – Pyle Center Ameritech Lounge

Posters (Wednesday afternoon)

1. Use of Tide Gauges in Altimeter Calibration and Validation: Estimating Altimeter Drift to Estimate Long-Term Sea Level Rise — Ted Strub, CIOSS
2. Improved SST retrieval in tropical regions using GOES-R ABI — Leona Charles, CREST
3. Validation of Satellite-Based NESDIS Rainfall Products — Walid Harrouch, CREST/CUNY
4. Vegetation Effect on Soil Moisture Retrieval from Active Microwave Data — Tarendra Lakhankar, CUNY
5. Capabilities and limitations of neural networks in snow cover mapping from passive microwave data — Juan Arevalo, CREST/CUNY
6. Validation of Satellite-derived Polar Clouds — Xuanji Wang, CIMSS
7. Accuracy of Satellite-derived Temperature Inversions — Yinghui Liu, CIMSS
8. Validation of Coastwatch ocean color products — Sathyadev Ramachandran, NOAA
9. Cloud Detection: Optical Depth Thresholds and FOV Considerations — Steve Ackerman, CIMSS
10. Calibration of Radar Remote Sensing as Applied to Soil Moisture and Vegetation Health Determination — Mairim Ramos, CREST/UPRM
11. Calibration and Validation Fundamentals — Vazjier Rosario, CREST/UPRM
12. Validation of Hydro-Estimator Algorithm for Puerto Rico Region — Beatrice Cruz, CREST/UPRM
13. Validation of Cloud Top Height Retrieval by MODIS and MISR Instruments — Ana Picon, CREST/UPRM
14. Seawifs Validation in Coastal Waters of Western Puerto Rico — Patrick Reyes, CREST/UPRM
15. The effect of Calibration Uncertainties on Cloud Height Retrievals from HIRS — Min Min Oo, CREST
16. A Comparison of High Spectral Resolution Infrared Cloud Top Pressure Algorithms Using S-HIS Measurements — Bob Holz, CIMSS
17. Windsat Vector Wind Accuracy from Buoy and QuikSCAT Comparisons — Mike Freilich, CIOSS
18. Visibility Analysis of Class I Areas Using Multiple Satellite Products and In Situ Ground Based Measurements — Nikisa Jordan, CREST/UMBC
19. GASP Optical Depth Animations and Optical Depth Comparison with an Elastic Lidar — Ray Rogers, CREST/UMBC
20. Windsat Observations of Ocean-Atmosphere Interaction in the Eastern Tropical Pacific — Dudley Chelton, CIOSS

Thursday 14 July 2005

0830	Muffins, tea, coffee	
0845	Intro/Logistics	Jeff Key, NOAA

Ocean and Land Applications   Chair: Ted Strub, CIOSS

0900	Using Satellite-Derived PBL Properties to Infer Land Surface Fluxes	Joe Santanello, CICS
0915	SST and Physical Radiance Bias Correction	Andy Harris, CICS
0930	Ocean Color Products: The Challenge of Going From Stocks to Rates	Sam Laney, CIOSS
0945	Coastal Carbon Fluxes from Satellite Ocean Color, SST and Winds	Peter Strutton, CIOSS
1000	Ocean Vector Wind Workshops and the Role of Cal/Val in Preparing for Future Satellite Wind Sensors	Dudley Chelton, CIOSS
1015	Vector Winds and Severe Storms in the Operational Environment	Paul Chang, NOAA

1030 Break

1045	Retrieval of Ocean Properties Using Multispectral Methods	Sam Ahmed, CREST
1100	Discussion	

Atmosphere Applications   Chair: Bob Aune, NOAA

1115	Validation of CIRA Tropical Cyclone Algorithms	Julie DeMuth, CIRA
1130	Use of GPS for Validation of Microwave Moisture Retrievals Over Land	Matt Nielsen, CIRA
1145	Satellite-derived Atmospheric Product Validation Using In Situ and Remotely Sensed Data	Wayne Feltz, CIMSS

1200 Lunch – Pyle Center's Lee Lounge

1330	3-Dimensional Validation of Satellite AOD Products and the Numerical Aerosol Forecast Models that Use Them	Ray Hoff, CREST/UMBC
1345	Aerosol Retrieval and Ground Albedo in Urban Areas Using V/NIR and MIR Hyperion Channels	Barry Gross, CREST/CCNY
1400	Improving Correlation of AOD and Surface PM2.5 Using Lidar Data, Implications for CALIPSO	Fred Moshary, CREST/CUNY
1415	Cal/val Activities at UPRM	Hamed Parsiani, CREST/UPRM

Climate Applications   Chair: Don Hillger, NOAA

1445	Using Fluctuations in Hyperspectral Satellite Observations to Estimate Climate Sensitivity	Daniel Kirk-Davidoff, CICS

1500 Break

1515	On the Validation and Intercomparison of Global Water Vapor Climate Data Records from Satellites	John Forsythe, CIRA
1530	Inter-satellite Calibration of HIRS OLR Time Series	Hai-Tien Lee, CICS
1545	Cloud Climatology Validation	Mike Pavolonis, CIMSS
1600	Discussion	
1615	Closing: Did we meet our goals?	

1630 **End of workshop**