

NOAA/NESDIS Cooperative Research Program (CoRP)
Seventh Annual Science Symposium - Agenda

Satellite Applications to Mesoscale Meteorology and Oceanography

10-11 August 2010 Hilton Hotel Conference Center
Fort Collins, CO

Tuesday, 10 August 2010

0900-0910 Welcome, Logistics, Agenda **Dan Lindsey** STAR/RAMMB

0910-0930 Introduction to CoRP **Ingrid Guch**, STAR/CoRP

Session 1: Satellite Applications to Oceanography, Chair, Dan Lindsey

0930-1000 The Post QuikSCAT Era **Paul Chang**, STAR/SOCD

1000-1030 Break

1030-1100 AMSU Observations of SST Influence on the Troposphere over the Gulf Stream
Dudley Chelton, CIOSS/OSU

1100-1120 Ocean Color Radiometer Measurements of Long Island Sound Coastal Observational platform (LISCO): Comparisons with Satellite Data & Assessments of Uncertainties
Soe Hlaing, CREST/CCNY

1120-1140 Remote Sensing of Southern Ocean Air-Sea CO₂
Andrea Vander Woude, COAS/OSU

1140-1200 Satellite Observations of Eddy-Induced Ekman Pumping
Peter Gaube, COAS/OSU

1200-0130 Lunch (buffet at Hilton Hotel)

0130-0150 Application of Satellite Data in the Data Assimilation Experiments off Oregon
Peng Yu, COAS/OSU

0150-0210 Low-level Jets in the Tropical Americas
Gabriela Mora-Rojas, CSU

0210-0300 Poster Introductions (all poster presenters)

Session 2: Poster Session, Hilton Hotel

0300-0430 Poster Session (with refreshments)

1. 10-Years of MODIS Cloud Properties, **Brent Maddux**, CIMSS/UW
2. Selecting AIRS Channels for Data Assimilation: An Application for Convective Initiation Forecast, **Agnes Lim**, CIMSS/UW
3. Validation of Microwave Emissivities of Land Surfaces: Detection of Snow and Surface Matters, **Narges Shahroudi**, CREST/CCNY
4. Towards a Better Monitoring of Soil Moisture Using a Combination of Estimates from Passive Microwave and Thermal Observations, **Zulamet Vega-Martinez**, CREST/CCNY
5. Lake Ice Phenology Analysis Using AVHRR Data, **Roya Nazari**, CREST/CCNY
6. Aerosol Impact on Cloud Water Path, **Ousmane Sy Savane**, CREST/CCNY
7. A neural network approach to retrieve the IOPs of the OCEAN from the MODIS sensor, **Ioannis Ioannou**, CREST/CUNY
8. Enhanced Bio-Optical Algorithm and Statistical Classifier for Detections of Harmful Algal Blooms: Evaluating the Retrieval Accuracies, **Soe Hlaing**, CREST/CCNY
9. Polarization Measurements and Analysis of Case I & II Water, **Amir Ibrahim**, CREST/CCNY
10. Estimation of Surface Snowpack Properties using Multi-Frequency Microwave Remote Sensing Data, **Jonathan Muñoz**, CREST/CCNY
11. Validation of NOAA IMS product with NCDC and EC Ground-based Data, **Christine Chen**, CREST/CCNY
12. Calibration and Validation of CASA Radar Rainfall Estimation, **Sionel Arocho**, CREST/CCNY
13. Geometry of the SST Front in a High Resolution Tide- and Wind-Forced Coastal Ocean Model, **John Osborne**, CIOSS/OSU
14. A History of RAMMB-NOAA at CSU: Cooperating in Atmospheric Science, **Don Hillger**, STAR/RAMMB

0430 Adjourn for the day

Wednesday, 11 August 2010

Session 3: Satellite Applications to Mesoscale Meteorology, Chair, Andrea Schumacher

- 0900-0930 Overview of Tropical Cyclone Research and Development at
CIRA/RAMMB **John Knaff, STAR/RAMMB**
- 0930-0950 The Temporal Evolution of Convective Cloud Properties: Meteorological
vs Volcanically Driven Convection **Mike Pavolonis, STAR/ASPB**
- 0950-1010 A daytime multispectral technique for detecting supercooled liquid water-
topped mixed phase clouds **Yoo-Jeong Noh, CIRA/CSU**
- 1010-1040 Break
- 1040-1100 Multi-Sources Precipitation Estimation
Kibrewossen Tesfagiorgis, CREST/CUNY
- 1100-1120 MODIS Regional and Global Cloud Variability
Brent Maddux, CIMSS/UW
- 1120-1140 A New Look at the Split-Window Difference for Diagnosing Low-Level
Moisture Convergence **Dan Lindsey, STAR/RAMMB**
- 1140-1200 Statistical Extrapolation of Vertically Resolved Cloud information from
CloudSat / CALIPSO Observations to Regional Swaths
John Forsythe, CIRA/CSU
- 1200-0130 Lunch (buffet at Hilton Hotel)
- 0130-0200 Predictability of Tropical Cyclone Intensity Forecasts
Mark DeMaria, STAR/RAMMB
- 0200-0220 The GOES-15 Science Test: An Opportunity for NOAA and Other
Scientists **Don Hillger, STAR/RAMMB**
- 0220-0240 Short- and Long-term Cloud Forecasting for Solar Energy
Duli Chand and Cindy Combs, CIRA/CSU
- 0240-0300 Symposium Summary, Wrap Up, Discussion (Lindsey and Schumacher)
- 0300 Adjourn, end of Symposium