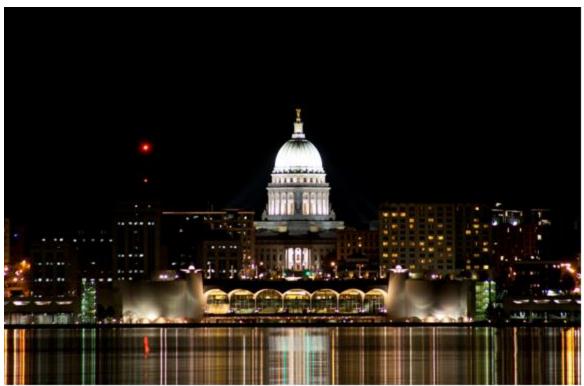
Program

Third Cloud Parameter Retrieval Workshop



Courtesy Daniel Hartung

15 - 18 November 2011 Madison, Wisconsin, USA hosted by the University of Wisconsin

Organizing Committee

Bryan Baum, Ralf Bennartz, Ulrich Hamann, Andrew Heidinger, Rob Roebeling, Andi Walther, and Anke Thoss



Tuesday 15 November 2011

07:30 Registration & Continental breakfast

08:30 Welcome

Bryan Baum

INSTRUMENT CALIBRATION

Chairperson: Patrick Minnis

08:40 Keynote: Calibration and Inter-calibration of geostationary satellite data for

climate monitoring

Rob Roebeling (on behalf of Jörg Schultz and Tim Hewison)

09:10 MODIS Radiometric Calibration and Uncertainty Assessment *Xiaoxiong (Jack) Xiong*

09:30 Using MSG-SEVIRI for the inter-calibration of visible and near-infrared reflectance from polar imagers

Jan Fokke Meirink

09:50 The calibration of geostationary visible sensors using MODIS as a reference

Dave Doelling

10:10 COFFEE BREAK

CLOUDS REFERENCE OBSERVATIONS

Chairperson: Andreas Macke

10:30 Keynote: Cloud Measurements, Retrievals, and Products from CALIPSO Dave Winker

11:00 Use of A-Train observations to assess cloud phase retrievals from SEVIRI/MSG

Jérôme Riédi

11:20 An Overview of CloudSat's Cloud Vertical Structure and Precipitation Incidence Products

Tristan L' Ecuyer

11:40 Cloud liquid water path of warm clouds from passive microwave and visible/near-infrared imagers

Ralf Bennartz

12:00 Evaluation of MISR Stereo Cloud-Top Height Retrievals

Ákos Horváth

12:20 LUNCH BREAK

ask for interests in working groups

CLOUD DETECTION FROM PASSIVE SENSORS

Chairperson: Steven Dewitte

14:00 Keynote: Overview of the MODIS Cloud Detection Algorithm Steve Ackerman

14:30 SAFNWC / MSG cloud products

M. Derrien

14:50 Multi-layer cloud detection within the SCE/CLA algorithm *Hans Lutz*

15:10 Improvements in Night-time Low Cloud Detection and MODIS-Style Cloud Optical Properties from MSG SEVIRI

Galina Wind

15:30 Accuracy Assessment of SEVIRI Cloud Detection and Cloud Top Height Retrievals Using Active Remote Sensing Data from CLOUDSAT and CALIPSO

Maarit Lockhoff

Chairperson: Steve Ackerman

15:50 POSTER PRESENTATIONS (1 slides, appr. 1 min per poster)

16:30 POSTER SESSION & ICE BREAKER

Wednesday 16 November 2011

07:30 BREAKFAST

CLOUD PROPERTIES FROM PASSIVE SENSORS

Chairperson: Michael King

- 09:00 Keynote: Overview of the MODIS Collection 6 Optical Property Algorithm Steve Platnick
- 09:30 Updated NASA Langley Cloud Property Retrievals
 Patrick Minnis
- 09:50 New AIRS Version 6 cloud retrievals: cloud thermodynamic phase, cirrus cloud optical thickness and effective diameter
 Shaima Nasiri, Brian Kahn
- 10:10 Synergetic cloud top height retrieval for a passive and an active sensor Anja Hünerbein
- 10:30 COFFEE BREAK
- 11:00 Progress on optimal estimation cloud property retrieval from SEVIRI observations

Phill Watts

11:20 Cloud analyses with passive satellite imagery viewed from the radiative perspective

Hartwig Deneke

11:40 State of the NOAA AWG Cloud Algorithms and their application in the Great Lakes Region

Andrew Heidinger

12:00 LUNCH

CREW-3 INTERCOMPARISON AND VALIDATION

Chairperson: Rene Preusker

- 13:30 Overview
 Rob Roebeling
- 13:50 Retrieval of cloud properties using synthetic datasets Alexander Kokhanovsky
- 14:10 Realistic Simulations of MSG/SEVIRI Scenes for Cloud Algorithm Validation Luca Bugliaro
- 14:30 Using CALIPSO/CloudSat Data to Evaluate the Multilayer Cloud Properties Retrieved from MODIS and SEVIRI Data
 Fu-Lung Chang
- 14:50 COFFEE BREAK
- **15:20 MODIS Collection 6 Cloud Top Height and IR Thermodynamic Phase** *Bryan A. Baum, W. Paul Menzel, Richard Frey, Robert Holz, and Andrew K. Heidinger*
- 15:40 The intercomparison of retrieved cloud properties within the ESA Cloud CCI project

Martin Stengel

- 16:00 Results of the CREW-3 intercomparison Ulrich Hamann
- 16:30 Plenary discussion: Re-calibration and validation
- 17:00 DINNER AND SOCIAL EVENT

Thursday 17 November 2011

07:30 BREAKFAST

WORKING GROUPS

Chairperson: Rob Roebeling, Anke Thoss

08:30 Working group formation

08:45 WG sessions

10:00 COFFEE BREAK

10:30 WG sessions

12:00 LUNCH

GENERATION OF CLIMATE DATASETS

Chairperson: Steve Platnick

13:30 Keynote: GEWEX Cloud Assessment: a review

Stefan Kinne

14:00 Small decisions with big impacts: MODIS, ISCCP, and the evaluation of clouds in climate models

Robert Pincus

14:20 Adding uncertainty information to cloud mask products – impact on Level 2 and Level 3 products

K.-G. Karlsson

14:40 Evaluation of the global cloud cover distribution obtained from multigeostationary data in the frame of the MEGHA-TROPIQUES mission with CALIPSO lidar observations.

Geneviève Sèze

- 15:00 Cloud variability and climate signatures in MODIS Level-3 data Brent Maddux
- 15:20 COFFEE BREAK
- 15:40 Keynote: Recalibrating and reprocessing the HIRS data to infer global cloud properties and trends

Paul Menzel

16:10 Evaluation of a 30-year NOAA-AVHRR cloud physical property climate data record

Erwin Wolters

16:30 Plenary discussion: Preparing climate datasets

17:00 DINNER ON OWN

Friday 18 November 2011

07:30 BREAKFAST

GENERATION OF CLIMATE DATASETS

Chairperson: Ulrich Hamann

09:00 Presentations of WG Cloud vertical placement

09:30 Presentations of WG Cloud microphysical properties

10:00 Presentations of WG Generation of climate datasets

10:30 COFFEE BREAK

Chairpersons: Rob Roebeling, Anke Thoss

11: 00 Final Plenary Discussion

11:50 Where to go from here

12:00 DEPARTURE AND BOX LUNCH

Posters

Sources of error in satellite derived products

Andi Walther

New Generation of Ice Cloud Bulk Scattering Models for Satellite Sensors

Bryan A. Baum, Ping Yang, and Andrew J. Heymsfield

Synergistic MERIS-AATSR cloud properties retrievals using optimal estimation technique

Cintia Carbajal Henken, Andi Walther, Rasmus Lindstrot, Rene Preusker, Jürgen Fischer

Improved Methods for and Validation of Nighttime Cloud Property Retrievals from SEVIRI, GOES and MODIS

Patrick Heck, Patrick Minnis, Rabindra Palikonda, Sarah Bedka, Christopher Yost, Yuhong Yi and J. Kirk Ayers

A MSG/SEVIRI simulator for the validation of climate models

B. Jonkheid, R. Roebeling and E. van Meijgaard

Optical Property Cloud Phase Retrievals for MODIS Collection 6: assessment from CALIOP/CALIPSO

Benjamin Marchant, Steven Platnick, G. Thomas Arnold, Bryan Baum

An Enhanced cloud classification scheme based on radiative transfer simulations and aggregated ratings.

Jan Musial, Stefan Wunderle

LaRC real-time satellite derived products – Overview: Applications and Limitations

Rabindra Palikonda, Patrick Minnis, W.L. Smith, Jr., Douglas A. Spangenberg, B. Shan, Thad Chee, J. Kirk Ayers, Mandana, M. Khaiyer, Michele L. Nordeen, Louis Nguyen, C. Fleeger, Qing Z. Trepte, Fu-Lung Chang, Patrick W. Heck

Cloud Phase Determination Using Infrared Absorption Optical Depth Ratios

Michael J. Pavolonis

A novel technique for validating liquid water cloud properties

S. Placidi, D. Donovan and R. Roebeling

MODIS Optical Property Pixel-Level Uncertainty Estimates in Collection 6 Steven Platnick, Gala Wind

A new Spectrally Consistent Adiabatic Method to derive cloud properties from MODIS measurement

Vincent Puygrenier

Estimation of cloud properties though a spectrally consistent adiabatic model John Rausch

An Equal-Angle Space-Time Gridding Tool for NPP Cloud Products Nadia Smith, W. Paul Menzel, Elisabeth Weisz, and Bryan A. Baum

Improved Methods to Resolve The Vertical Distribution Of Cloud Water From Passive Satellite Data

William L. Smith Jr., Patrick Minnis, Douglas Spangenberg, Rabindra Palikonda, and Yuhong Yi.

Application and evaluation of the Oxford-RAL Retrieval of Aerosol and Cloud algorithm to MODIS data

Gareth Thomas, Caroline Poulsen, Richard Siddans and Don Grainger

A Comparison of Cloud Detection between CERES Ed4 Cloud Mask and CALIPSO Version 3 Vertical Feature Mask

Qing Trepte, Patrick Minnis, Sunny Sun-Mack, Ricky Brown, Charles Trepte

An assessment of differences between cloud effective particle radius retrievals for marine water clouds from three MODIS spectral bands: observational and modeling studies

Zhibo Zhang, Steven Platnick, Graham Feingold, Andrew Ackerman, and Robert Pincus