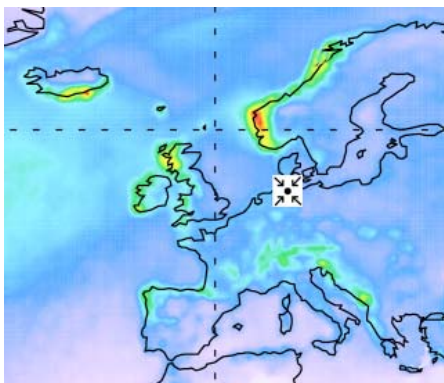


Fifth Workshop of the International Precipitation Working Group

11-15 October 2010

KlimaCampus ▪ Max-Planck-Institut für Meteorologie
Hamburg, Germany

Session Program



Max-Planck-Institut
für Meteorologie



KlimaCampus

Opening Session

Monday, 11 October, 8.30 – 9.30

Registration

ZMAW Building, Bundesstr. 53, Atrium/Hall 022/023

Monday, 11 October, 9.30 – 10.15

Oral Session / Welcome:

Opening Remarks	Christian Klepp
Welcome and introduction to KlimaCampus and MPI-M	Detlef Stammer (Inst. of Oceanog. ZMAW, Univ. of Hamburg)
IPWG summary/perspective	Christian Klepp/George Huffman
GEO summary/perspective	George Huffman (Point of Contact for GEO Precip Subtask)
Workshop goals	Christian Klepp/George Huffman
Logistics	Christian Klepp

Session A The Big Picture, Climatology, Water Cycle

Monday, 11 October, 10.30 – 12.30

Oral Session

- 10.30: Status and Overview on IPWG related Precipitation Data Sets**
C. Kidd (Univ. of Birmingham, UK)
- 10.50: SEAFLUX / Water Cycle**
C. Clayson (Florida State Univ., USA)
- 11.10: Global Ocean Freshwater Flux Components from Satellite, Re-analysis and In-Situ Climatologies**
A. Andersson (Max Planck Institute for Meteorology, Germany), C. Klepp, K. Fennig, S. Bakan, H. Graßl, J. Schulz
- 11.30: Quantifying Uncertainties in Satellite-based Global Precipitation Measurements**
Y. Tian (Univ. of Maryland College Park/ESSIC and NASA/GSFC, USA) and C.D. Peters-Lidard
- 11.50: The Global Precipitation Measurement (GPM) Mission: Overview and U.S. Status**
A.Y. Hou (NASA/GSFC, USA)
- 12.10: Global Flood and Landslide Nowcasts and Forecasts Using Multi-Satellite Precipitation Observations**
R. Adler (Univ. of Maryland, USA), H. Wu, Y. Hong, F. Policelli, Y. Tian, H. Pierce

Monday, 11 October

Session B Precipitation Data Sets

Monday, 11 October, 14.00 – 15.30

Oral Session

14.00: The Global Precipitation Climatology Centre Serving the Hydro-Climatology Community

A. Becker (DWD/GPCC, Germany), U. Schneider, A. Meyer-Christoffer, M. Ziese, P. Finger, B. Rudolf

14.20: The Status of NOAA/NESDIS Precipitation Algorithms and Products

R. Ferraro (NOAA/NESDIS/STAR, USA), S. Boukabara, K. Gopalan, J. Janowiak, R. Kuligowski, H. Meng, M. Sapiano, H. Semunegus, T. Smith, D. Vila, N-Y. Wang, F. Weng, L. Zhao

14.40: EUMETSAT's Activities in Support of Precipitation Remote Sensing

T. Heinemann (EUMETSAT, EU)

15.00: Status of Japanese Precipitation Measuring Missions and Global Rainfall Map in Near-Real-Time

M. Kachi (JAXA/EORC, Japan), T. Kubota, R. Oki

15.20: Poster Introduction

Monday, 11 October, 15.30 – 17.30

Poster Session

The HOAPS-3 Climatology

S. Bakan (ZMAW, Univ. of Hamburg), A. Andersson, C. Klepp, K. Fennig

Rain Drop Size Densities over Land and over Sea

K. Bumke (Leibniz-Inst. of Marine Sci. at the Christian-Albrechts Univ. zu Kiel, Germany)

Historical Time Series of Merged Raingauge-Satellite Rainfall Data for Climate Risk Management Applications in Ethiopia

T. Dinku (IRI and the Earth Inst. at Columbia Univ., USA), K. Hailemariam, D.F. Grimes

Release of CM-SAF HOAPS v3.2 Products Based on Improved Data Record of SSM/I Radiances

K. Fennig (DWD/SAF-Climate Monitoring, Germany), M. Schröder

Globally Gridded Satellite (GridSat) Observations for Climate Studies

K. Knapp (NOAA/NCDC, USA)

Global Precipitation Data Access, Value-added Services and Scientific Exploration Tools at NASA GES DISC

Z. Liu (NASA/GSFC DISC, USA), D. Ostrenga, G. Leptoukh, S. Kempler

Towards a Climate Data Record of Precipitation from Satellite Microwave Imager Data

M.R.P. Sapiano (Colorado State Univ., USA), W. Berg

Recent Development of GPCC's Data Base and Quality-Control in Preparation of New Gridded Global Precipitation Analyses

U. Schneider (DWD/GPCC, Germany), A. Meyer-Christoffer, M. Ziese, P. Finger, A. Becker, B. Rudolf

Monday, 11 October

Implementation of a Methodology to Calibrate Ground Radars Using TRMM-PR over Argentina

L. Vidal (Dept. de Ciencias de la Atmósfera y los Océanos, Ciudad Univ., Brazil), P. Salio, C.A. Morales

A Climatology-Based Scheme for Special Sensor Microwave Imager (SSM/I) Quality Control: An Application to Monthly Rainfall Rates

D. Vila (Centro de Previsão de Tempo e Estudos Climáticos - Rodovia Presidente Dutra, Brazil, and Univ. of Maryland/ESSIC/CICS, USA), R. Ferraro, H. Semunegus

Gridded Data Products Provided and Interpolation Technique Utilized by the Global Precipitation Climate Centre (GPCC)

M. Ziese (DWD/GPCC, Germany), U. Schneider, A. Meyer-Christoffer, P. Finger, A. Becker, B. Rudolf

Ice-Breaker Reception

Monday, 11 October, 17.30 – 20.30

Hosted by KlimaCampus and MPI-M, sponsored by Eigenbrodt Umweltmesstechnik and METEK. All participants and accompanying persons are invited to this event.



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Session C Algorithms

Tuesday, 12 October, 9.00 – 10.30

Oral Session

- 9.00: Kalman-Filtered CMORPH using TRMM to Blend Satellite Rainfall**
R.J. Joyce (Wylie Information Sys. and NOAA/MWS/CPC, USA), P. Xie, S.-H. Yoo
- 9.20: New GSMaP Over-Land Precipitation Retrieval Algorithm**
K. Aonashi (Meteor. Res. Inst., Japan)
- 9.40: REFAME: A Combined Precipitation Estimation Technique using Adjusted-advection of Microwave Precipitation Estimates**
A. Behrangi (California Inst. of Technology/JPL and Univ. of California Irvine, USA), S. Sorooshian, K. Hsu, T.J. Bellerby, G.J. Huffman
- 10.00: A Physically-Based Rainfall Rate Algorithm for the Global Precipitation Mission**
S.-A. Boukabara (Joint Cent. for Sat. Data Assim. and NOAA/NESDIS/STAR) and K. Garrett
- 10.20: Poster Introduction**

Tuesday, 12 October, 10.30 – 12.30

Poster Session

- Can Recently Observed Precipitation Trends over the Mediterranean Area Be Explained by Climate Change Projections?**
A. Barkhordarian (GKSS Research Centre, Germany) and H. von Storch
- Enhancements in the Version 7 TRMM Multi-satellite Precipitation Algorithm (TMPA)**
G.J. Huffman (NASA/GSFC and Science Sys. and Appl., Inc., USA), D.T. Bolvin, E.J. Nelkin, R.F. Adler
- Characterization of Snow-Covered Terrains and Detection of Snowfall by Using the 183-WSL Retrieval Scheme**
S. Laviola (ISAC-CNR, Italy), S. D'Aurizio, E. Cattani, V. Levizzani
- Combining precipitation and soil moisture observations: a way for improved estimates of land surface water fluxes?**
A. Löw (Max Planck Inst. for Meteor., CliSAP, Germany)
- Improvement of GSMaP Passive Microwave Imager Rainfall Retrievals over the Mountainous Area in Japan**
S. Shige (Kyoto Univ., Japan), H. Ashiwake, A. Taniguchi, S. Kida, T. Kubota
- Precipitation Estimation for Typhoon Using Satellite Microwave Data**
N.-C. Yeh (Chung Cheng Inst. of Technol., Nat. Defense Univ., Taiwan), W.-J. Chen, J.-L. Wang, J.-C. Hu, G.-R. Liu, M.-D. Tsai
- Combining High-Resolution Satellite Estimates with Gauge Observations**
S.-H. Yoo (Wylie Inform. Systems and NOAA/NWS/CPC, USA) and P. Xie
- Investigations of the Moisture Budget of the Tropical Atmosphere Using ERA Interim Data**
M. Zahn (Univ. of Reading, UK), R.P. Allan

Tuesday, 12 October

Session D Validation

Tuesday, 12 October, 14.00 – 15.30

Oral Session

- 14.00: Status of and Early Results from the IPWG/WGNE Model Precipitation Intercomparison**
M.R.P. Sapianto (Colorado State Univ., USA)
- 14.20: Application of MET for the Verification of the NWP Cloud and Precipitation Products using A-Train Satellite Observations**
P.A. Kucera (NCAR, USA), B. Brown, R. Bullock, C. Weeks
- 14.40: Performance of TRMM Level 2 and 3 Rainfall Retrievals in the Complex Terrain of South Asia**
S.W. Nesbitt (Univ. of Illinois at Urbana-Champaign, USA) and K.A. Reed
- 15.00: Performance Evaluation of Precipitation Estimations over South-Eastern South America Considering Different Climatic Regions**
P. Salio (FCEN- and CONICET-UBA, Argentina), D. Vila, Yanina G. Skabar, M. Paula Houbouchian, C. Matsudo
- 15.20: Poster Introduction**

Tuesday, 12 October, 15.30 – 17.30

Poster Session

- Rain-gauge Validation of Satellite Rainfall Estimates over Argentina**
D. Barrera (CONICET/Univ. of Buenos Aires, Argentina) and S. G. Gómez
- Multi-Site and Multi-Objective Evaluation of High-Resolution Satellite-Rainfall Products**
E. Habib (Univ. of Louisiana at Lafayette, USA), A.T. Haile, M. ElSadani, M. ElShamy, R. Kuligowski, Y. Tian
- Rain Intensity Spectra Distribution Over Germany and Western Africa**
M. Itkin (Max Planck Inst. for Meteorology, KlimaCampus, Germany), R. Athmer, A. Löw
- Variability of Lightning Activity and Subsequent Convective Precipitation Derived from Satellite and Ground Based Sensors – Case Study**
R. Iwanski (Inst. of Meteorology and Water Management/Sat. Remote Sensing Centre, Poland), B. Lapeta, D. Serafin
- Three Studies: Can Models Replicate Tropical Precipitation Cycles Accurately? How Do Models and Satellite Estimates Perform in the North Atlantic? Do We Really Influence Precipitation?**
C. Kidd (Univ. of Birmingham, UK)
- Precipitation Validation over the Oceans**
C. Klepp (KlimaCampus, Univ. of Hamburg, Germany)
- Temporally Homogeneous Rainfall Time Series for Africa - Methodology and Validation**
R. Maidment, E. Tranavsky, D. Grimes (Univ. of Reading, UK)
- The Precipitation Product Validation Service Defined During the Development Phase of the Hydrological SAF**
S. Puca (Italian Civil Protection Department), E. Labo, B. Lapeta, Ján Kanák, T. Maurer, A. Öztopal,

Tuesday, 12 October

F. Porcu', E. Roulin, I. Sonmez

Verification of NOAA CPC RFE at Various Temporal and Spatial Resolutions in the Hindu Kush - Himalayan Region

M.S. Shrestha, S.R. Bajracharya (Internat. Centre for Integrated Mountain Development, Nepal),
P.K. Mool

Rainfall Retrieval Validation over the Americas: The STAR Precipitation Validation Center

D. Vila (CPTEC/INPE, Brazil, and Univ. of Maryland College Park/ESSIC, USA) and J. Janowiak

Session E New Technologies and Future Activities

Wednesday, 13 October, 9.00 – 10.40

Oral Session

- 9.00: Current Status of Satellite Precipitation and GPM Activity at KMA**
M.-L. Ou (KMA, Korea), J.-H. Kim
- 9.20: The GOES-R Rainfall Rate, Rainfall Potential, and Probability of Rainfall Algorithms**
R.J. Kuligowski (NOAA/NESDIS/STAR, USA), Y. Li, Z. Zhang, R. Barnhill
- 9.40: Developing Winter Precipitation Algorithm over Land from Satellite Microwave and C3VP Field Campaign Observations**
N.-Y. Wang (Univ. of Maryland College Park/ESSIC and NOAA/NESDIS/STAR, USA),
K. Gopalan, R. Ferraro
- 10.00: Examination of CloudSat-Based Snowfall Profiles using C-band Ground Radar**
F.J. Turk (California Inst. of Technology/JPL, USA), K.-W. Park, Z. Haddad, P. Rodriguez,
D. Hudak
- 10.20: Megha-Tropiques: Mission and Algorithms Status**
N. Viltard (LATMOS-IPSL CNRS-UVSQ, France)

Wednesday, 13 October, 11.00 – 12.30

SSMIS Update

- 11.00: Introduction to the SSMIS and the UPP**
W. Bell (ECMWF, EU)
- 11.30: The UPP-CP**
F.J. Turk (NASA/JPL)
- 11.40: The NESDIS/STAR Corrected SSMIS Dataset**
D. Vila (Centro de Previsão de Tempo e Estudos Climáticos - Rodovia Presidente Dutra,
Brazil, and Univ. of Maryland/ESSIC/CICS, USA)
- 11.50: SSMIS Data Postings in NESDIS**
R. Ferraro (NESDIS/STAR, USA)
- 11.55: Developing CDRs for SSMIS**
M.R.P. Sapiiano (Colorado State Univ., USA)
- 12.10: SSMIS at RSS**
K. Hilburn (Remote Sensing Sys., USA), presented by G. Huffman
- 12.15: Wrap-Up and Discussion**
G. Huffman

Wednesday, 13 October

Working Group Activities

Wednesday, 13 October, 14.00 – 14.30

Introduction

14.00: CGMS summary/perspective

V. Gärtner (CGMS Rapporteur for IPWG)

14.10: Introduction to WGs

G. Huffman

Wednesday, 13 October, 14.30 – 17.30

Breakout 1

New Technology Room 1536B (Geomatikum)

Operational Applications Room 301

Research Activities Room 022/023

Validation Room 401

Workshop Dinner

Wednesday, 13 October, 18.45 – 23.15

Sponsored by MABANAFT. All participants and accompanying persons are invited to attend a buffet dinner in the HafenCity Hamburg. Busses will depart for the dinner at 18.45 from the conference venue and will bring us back at approx. 23.15.



Thursday, 14 October

Thursday, 14 October, 9.00 – 12.30

Breakout 2

New Technology	Room 1536B (Geomatikum)
Operational Applications	Room 002
Research Activities	Room 022/023
Validation	Room 401

Thursday, 14 October, 14.00 – 15.30

Breakout 3

New Technology	Room 1536B (Geomatikum)
Operational Applications	Room 002
Research Activities	Room 022/023
Validation	Room 401

Thursday, 14 October, 16.00 – 17.30

Closing Plenary

Reports by Working Groups and Discussion	Working Group Chairs/Rapporteurs
Overall Recommendations	G. Huffman
Recommendations to CGMS	V. Gärtner
Closing Statement	G. Huffman
Words of Thanks	C. Klepp

Friday, 15 October

Outing

Friday, 15 October, 11.00 – 15.00

Experience with us the beautiful city of Hamburg on a convenient and entertaining tour that includes drinks and food, enjoying the “Waterkant” from both sides. The tour starts at 11:00 and ends at 15:00 at the conference venue. This schedule should allow you to catch late-afternoon flights if you wish to leave on Friday.

All participants are invited to take part in the excursion. However, we must ask that each person contributes 50 € for the event which may be paid in cash during the registration on Monday morning.