

INTERNATIONAL SYMPOSIUM ON DATA ASSIMILATION 2014

24-28 February 2014

Ludwig Maximilians University, Germany, Oettingen Straße 67, 80538 Munich

Program					
Time	Mon 24.02.14	Tue 25.02.14	Wed 26.02.14	Thu 27.02.14	Fri 28.02.14
08:00	Registration [Foyer]		Registration [Foyer]		
08:45	Welcome [B001]				
09:00 - 12:30	Clouds and Precipitation I Use of satellite radiances in cloudy and precipitating situations [B001]	Convective Scale Data Assimilation I [B001]	Ensemble Methods in Data Assimilation [B001] Workshop Cost Action ES1206 (WG1) [U151]	Reanalysis [B001] Workshop Cost Action ES1206 (WG3) [L155]	Workshop Cost Action ES1206 (parallel sessions) [B001 / 155 / 123] <i>Kenda/EPS Mini Workshop</i> [L155]
	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:00 - 17:30	Clouds and Precipitation II Assimilation of cloud information from satellite data [B001]	Convective Scale Data Assimilation II [B001] End:18:00	Uncertainty in DA and Forecasting [B001] Workshop Cost Action ES1206 (WG2) [U151]	GPS/GNSS Delay Data in Data Assimilation [B001]	Workshop Cost Action ES1206 (plenary discussion, workshop closure) [B001] <i>Kenda/EPS Mini Workshop</i> [L155]
17:30 - 20:00	Ice Breaker and Poster Session I [Foyer / C003 / C007]		Joint Symposium / Cost Icebreaker and Poster Session II [Foyer / C003 / C007]	Symposium Closure [B001] End: 18:00	

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bold text = plenary sessions / thin text = side workshops / [room]

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Wetter und Klima aus einer Hand



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Reading**



INTERNATIONAL SYMPOSIUM ON DATA ASSIMILATION 2014

Monday | 24.02.2014

CLOUDS AND PRECIPITATION I

Use of satellite radiances in cloudy and precipitating situations

SESSION CHAIRS

Christina Koepken-Watts
Olaf Stiller

SCHEDULE

09:00 - 09:10 Introduction to session
09:10 - 10:00 Alan Geer: Assimilation of microwave observations in all-sky conditions at ECMWF

10:00 - 10:30 Coffee

10:30 - 11:20 Ed Pavelin: Assimilation of cloudy infrared satellite observations: The Met Office perspective
11:20 - 12:00 Alan Geer: Assimilation of infrared observations in all-sky conditions at ECMWF
12:00 - 12:30 Discussion

CLOUDS AND PRECIPITATION II

Assimilation of cloud information from satellite data

SESSION CHAIRS

Martin Weissmann
Annika Schomburg

SCHEDULE

14:00 - 14:40 Marta Janiskova: Use of spaceborne cloud radar and lidar observations for experimental assimilation
14:40 - 15:20 Pauline Martinet: Use of microphysical variables for the assimilation of IASI cloudy radiances in convective scale models
15:20 - 15:40 Gareth Dow: Cloud assimilation at the UK Met Office - sensitivity studies in stratocumulus periods
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15:40 - 16:10 Coffee
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16:10 - 16:50 Jason Otkin: Exploring the impact of cloud-affected satellite observations in an ensemble Kalman filter assimilation system
16:50 - 17:10 Leonhard Scheck: Assimilation of MSG visible and near-infrared reflectivity in KENDA/COSMO
17:10 - 17:30 Annika Schomburg: Assimilating cloud information from satellite cloud products with an ensemble Kalman filter at the convective scale

INTERNATIONAL SYMPOSIUM ON DATA ASSIMILATION 2014

Tuesday | 25.02.2014

CONVECTIVE SCALE DATA ASSIMILATION I

Methodology

SESSION CHAIRS

Tijana Janjic-Pfander
Peter Jan van Leeuwen
Angelika Bunse-Gerstner

SCHEDULE

09:00 - 09:55 Chris Snyder: Larger-scale influences on convective-scale data assimilation

09:55 - 10:25 Coffee

10:25 - 11:20 Thibaut Montmerle: Representing forecast errors at convective scale

11:20 - 12:15 Milija Zupanski: Nonlinear ensemble data assimilation and all-sky MW and IR satellite radiance assimilation

12:15 - 12:30 Discussion

CONVECTIVE SCALE DATA ASSIMILATION II

Applications

SESSION CHAIRS

Tijana Janjic-Pfander
Volker Wulfmeyer

SCHEDULE

14:00 - 14:55 Dale Barker: Convective-scale data assimilation applications

14:55 - 15:50 Siebren de Haan: The use of Mode-S enhanced surveillance observations in NWP

15:50 - 16:20 Coffee

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16:20 - 16:45 Fuqing Zhang: Ensemble-based assimilation of high-resolution Doppler radar and in-situ observations for convective storms and tropical cyclones

16:45 - 17:10 Atoossa Bakhshaii: WRF dual polarized radar forward operator

17:10 - 17:35 Thibaut Montmerle: The AROME-France system : an operational NWP system at convective scale

17:35 - 18:00 Discussion

INTERNATIONAL SYMPOSIUM ON DATA ASSIMILATION 2014

Wednesday | 26.02.2014

ENSEMBLE METHODS IN DATA ASSIMILATION

SESSION CHAIRS

Roland Potthast
Andreas Rhodin

SCHEDULE

09:00 - 09:55 Takemasa Miyoshi: Exploring multi-scale and model-error treatments in ensemble data assimilation

09:55 - 10:15 Andreas Rhodin: VarEnKF localisation for an unstructured grid

10:15 - 10:45 Coffee

10:45 - 11:40 Mark Buehner: Implementation of four-dimensional ensemble-variational data assimilation for deterministic weather prediction

11:40 - 12:05 Neill Bowler: Initial trials of 4D-ensemble-var for data assimilation and ensemble initialization

12:05 - 12:30 Jelena Bojarova: A 4-dimensional ensemble variational data assimilation for a limited area model

UNCERTAINTY IN DATA ASSIMILATION AND FORECASTING

SESSION CHAIRS

George C. Craig
Chiara Marsigli

SCHEDULE

14:00 - 15:00 Fuqing Zhang: Impacts and treatment of model and sampling error in ensemble based analysis and forecast systems

15:00 - 15:20 Chiara Piccolo: Evaluation of uncertainty in model prediction using data assimilation

15:20 - 15:50 Coffee

15:50 - 16:10 Florian Harnisch: Impact of ensemble perturbations provided by convective-scale ensemble data assimilation

16:10 - 16:30 Olaf Stiller: A probabilistic tool for the cross validation of observations

16:30 - 17:00 Discussion

INTERNATIONAL SYMPOSIUM ON DATA ASSIMILATION 2014

Thursday | 27.02.2014

REANALYSIS

SESSION CHAIRS

Andrea Kaiser-Weiss
Christian Ohlwein

SCHEDULE

09:00 - 09:15 Andrea Kaiser-Weiss: Motivation for this session and envisaged reanalysis applications
09:15 - 10:00 David Tan: Reanalysis uncertainties and validation/verification

10:00 - 10:30 Coffee

10:30 - 11:00 Peter Jermey: EURO4M regional reanalysis - evaluation of precipitation
11:00 - 11:30 Christian Ohlwein: Evaluation of a COSMO-based reanalysis system for the European CORDEX domain
11:30 - 11:50 Discussion on benefits and verification methods
11:50 - 12:10 Marc Schröder: Comparison of reanalyses and satellite-based climate data records from CM SAF
12:10 - 12:30 Discussion on validation with observations

GPS/GNSS DELAY DATA IN DATA ASSIMILATION

SESSION CHAIRS

Jonathan Jones
Jens Wickert
Roland Potthast

SCHEDULE

14:00 - 14:40 Jan Douša: Overview of GNSS data processing methods and data quality
14:40 - 15:20 G.V. Bennett: Overview of GNSS data assimilation at the UK Met Office
15:20 - 15:40 Jean-Francois Mahfouf: Overview of GNSS data assimilation at Meteo France

15:40 - 16:00 Coffee

16:00 - 16:20 Takuya Kawabata: GPS slant total delay assimilation with a storm scale 4D-Var on an MCS event
16:20 - 17:00 Michael Bender: GNSS data assimilation and GNSS tomography for global and regional models
17:00 - 17:30 Henrik Vedel: E-GVAP