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Welcome

Dear participants, we welcome you to the fourteenth EMS Annual Meeting and the tenth European Conference on Applied Climatology (ECAC) in Prague. In 2004, the first EMS Annual Meeting as a call-for-contributions type conference together with the ECAC took place in Nice, France. Ten years on, this conference is well established in the European calendar of meetings and has been held in several European countries. The programme has since developed, answering the needs of society: Energy meteorology, only introduced in 2010, is now the largest of all sessions. In 2015 Sofia will host the EMS & ECAM, and the next EMS & ECAC will be organised in Trieste on the Adriatic coast.

Conference theme

Creating climate services through partnerships

The theme of the conference highlights the integration of user needs in the development of climate science. Climate services, infrastructures and networks are under development all around the globe, and many organisations are involved on quite different levels. A panel discussion will explore whether all these efforts come to fruition and the information provided to any users actually reaches them and meets their needs: **The challenges of climate services: bridging the gaps** - on Wednesday afternoon (see page 10).

Conference programme

The programme of the ECAC & EMS Annual Meeting has been structured into six programme groups:

- *Monitoring climate and climate change*
- *Understanding processes and climate change*
- *Research and services for socio-economic sectors*
- *Communication and education*
- *Numerical weather prediction*
- *The atmospheric system and its interactions*

To build this programme would not have been possible without the work of the convenors that developed and promoted the sessions. Sincere thanks to them for their commitment and hard work! We are also grateful to the Programme and Science Committee for having devised a very interesting programme and hope you will enjoy and benefit from the wealth of research, results and applications that will be presented and discussed during the week.

As in the two previous years the full conference programme will be accessible as an app for mobile devices, in addition to the online programme and the material on the USB stick. Get the download code on page 3 or follow the link on the home page ems2014.eu.

The exhibition – use the opportunity

The conference will also feature an exhibition of commercial companies involving manufacturers and service providers. This will be open from Monday lunchtime to Thursday afternoon and we hope you will make use of the opportunity to inform yourself on new developments and plans of these companies.

Workshops

During the conference week a number of interesting workshops will take place:

- *Tips for effectively dealing with the media* – The EMS Media Team will hold this half-day training.
- *Climate Services: Products and tools to make choices* – A CORECLIMAX Capacity Building Workshop.
- *Remote Sensing in Climatology* – The Climate Monitoring Satellite Application Facility at DWD is inviting interested climatologists.
- *WMO RA VI Regional Climate Centre (RCC) Network*.
- *The future of the EMS Annual Meetings: how to organise a conference with reduced carbon foot print*.

Find more details on page 16 and at meetingorganizer.copernicus.org/EMS2014/sessionprogramme/SIM

Awards

During a special ceremony on Tuesday a number of awards will be handed over: The EMS Young Scientist Award, the Media Awards, including a new EMS Award for Achievements in Journalism, the Young Scientist Travel Awards and last but not least the prestigious EMS Silver Medal. The 2014 Silver Medallist Prof Peter Lynch will then give the Silver Medal Lecture. See details on page 15.

The winner of the Outstanding Poster Award will be announced on Friday at lunchtime, but the prize will be awarded at the Annual Meeting 2015 in Sofia.

Thank you

We are grateful to all who have contributed to make this meeting in Prague a reality – the local organisers, the EMS Member Societies and Associates, the Copernicus organisation, the exhibitors.

Welcome again, and we hope you will have a very interesting week in Prague.

Dominique Marbouy

EMS President

Ingeborg Auer

Support Manager
EUMETNET Climate
Programme

Václav Dvořák

Director CHMI

Tomas Halenka

ČMeS President

Jan Kratochvíl

Dean – Faculty of
Mathematics and Physics,
Charles University

Location and Conference Address

The 14th EMS Annual Meeting & 10th European Conference on Applied Climatology (ECAC) are held jointly in Prague, Czech Republic, from 06 to 10 October 2014.

The conference is organised jointly by the European Meteorological Society (EMS), EUMETNET Climate Programme, ČMeS, CHMI and Charles University.

Conference Venue

Clarion Congress Hotel Prague
Freyova 33
190 00 Prague, Czech Republic

Rules of Conduct

- Smoking is prohibited in the conference centre.
- It is prohibited to copy any presentation from the desktops in the lecture rooms.
- Please switch off any mobile phones during the sessions.
- Please note that video-graphic recordings are not allowed.

Official Language

The official language of the 14th EMS & 10th ECAC is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research in the English language.

Insurances

The organisers cannot accept liability for personal accident, loss or damage to private property, which may be incurred as a result of the participation in the conference. Participants are, therefore, advised to arrange appropriate insurance cover. This should extend not only to travel but also to cancellation costs.

Local Transportation Information

Weekly registration tickets also include a free public transportation ticket (valid in all metro, tram and bus lines within Prague, incl. airport). This ticket is valid from Monday to Friday, 06–10 October 2014. You receive the transportation ticket together with your registration material.

From the airport Václava Havla

By public transport: bus no. 100 runs from the airport to Zličín metro station – line B. Take the metro to Vysočanská station. The hotel is located above the metro station in Galerie Fénix shopping mall.

By taxi: registered taxis are available from a stand located in front of the Arrivals hall.

From the main railway station Hlavní nádraží

By metro: take metro C (red line), change lines at Florenc station to metro B (yellow line) and get off at Vysočanská station; the journey takes approx. 15 minutes.

By taxi: registered taxis are available from a stand located in front of the main railway station building.

From the main bus station – Florenc

By metro: walk to metro station Florenc, take metro B (yellow line) and get off at Vysočanská station; the journey takes approx. 15 minutes.

By taxi: registered taxis are available from a stand located in front of the bus terminal.

Wireless Network Access

Conference participants have free WiFi in the hotel lobby (one floor below the conference level) and the restaurants. No password is required. WiFi access on the conference level can only be provided for a daily charge of €6. However, WiFi is available in the working room “Stella”. SSID (network) and the password will be provided in the room.

Registration & Information Desk

The registration & information desk is located in the conference foyer of the Clarion hotel.

Opening Hours

Sunday, 05 October 2014
15:00–18:00

Monday – Thursday, 06–09 October 2014
08:00–18:00

Friday, 10 October 2014
08:00–10:00

Registration & Abstract Management

Copernicus Meetings
Bahnhofsallee 1e
37081 Göttingen, Germany
Phone: +49-551-900339-20, Fax: +49-551-900339-70
meetings@copernicus.org, www.copernicus.org

Greening EMS

For many years now, the programme book has been printed on recycled paper. With the name badge we are striving to be more environmental-friendly. This year the lanyard is made of bamboo fibre (no PET) along with a biodegradable snap hook (pressed maize). When leaving the conference, we kindly ask you to return the name badge with the lanyard at the registration counter.

EMS2014 App



Download the EMS2014 App for iPhones and Android Smartphones.

Conference Hours

Oral Sessions

Monday, 06 October 2014

Opening:	09:30–13:00
Lunch break:	13:00–14:00
Block 3:	14:00–16:00
Posters & coffee break:	16:00–17:00
Block 4:	17:00–19:00
Icebreaker Reception:	19:15–21:00

Tuesday, 07 October 2014

Block 1:	08:30–10:30
Posters & coffee break:	10:30–11:30
Block 2:	11:30–13:00
Lunch break:	13:00–14:00
Block 3:	14:00–15:00
Coffee break:	15:00–15:30
Block 4:	15:30–17:30
Block 5:	17:40–18:40

Wednesday, 08 October 2014

Block 1:	08:30–10:30
Posters & coffee break:	10:30–11:30
Block 2:	11:30–13:00
Lunch break:	13:00–14:00
Block 3:	14:00–16:00
Coffee break:	16:00–16:30
Block 4:	16:30–18:00

Thursday, 09 October 2014

Block 1:	08:30–10:30
Posters & coffee break:	10:30–11:30
Block 2:	11:30–13:00
Lunch break:	13:00–14:00
Block 3:	14:00–16:00
Coffee break:	16:00–16:30
Block 4:	16:30–18:30

Friday, 10 October 2014

Block 1:	08:30–10:30
Posters & coffee break:	10:30–11:30
Block 2:	11:30–13:00
Announcement of poster award recipient	13:15–14:00

▲ *Please note that video-graphic recordings are not allowed, and mobile phones must be switched off/in mute mode during the sessions.*

Poster Sessions

The poster area is located in room Meridian (see floor plan on page 93). Fixing material is available directly at the entrance of the poster area.

ECAC and **NWP** posters in Poster area **LEFT**, **poster numbers all start with L**.
ASI and **CE** posters Poster area **RIGHT**, **poster numbers all start with R**.

Poster numbers distinguish between **front** of the row of poster boards (**LF**, **RF**) and **back** of the poster board row (**LB**, **RB**).

We have designed these poster areas in order to ensure that there is ample space in front of the poster boards for a group of people. Thus during any poster session author-in-attendance-time is only scheduled for posters on one side of the aisles (i.e. back or front).

Display Times

Authors are kindly asked to put up their posters as soon as possible within the according display time in order to enable the conference participants to view their posters at any time within the display day, and to take them down on Wednesday between 13:00–14:00 (Display Time: Monday to Wednesday) and on Friday between 14:00–15:00 (Display Time: Wednesday to Friday). Posters that have not been removed within this dismantling time will be removed and disposed off.

Author in Attendance/poster sessions

- Monday: 16:00–17:00
- Tuesday: 10:30–11:30
- Wednesday: 10:30–11:30 and 16:00–17:00
- Thursday & Friday: 10:30–11:30

Details on attendance time by session: see page 14.

Coffee Breaks & Lunch

Coffee Breaks

Free coffee/tea will be served during the Coffee Breaks. The coffee stations are located in the conference foyer as well as in the poster area “Meridian”.

Monday, 06 October 2014

10:30–11:00 and 16:00–17:00

Tuesday, 07 October 2014

10:30–11:30 and 15:00–15:30

Wednesday, 08 October 2014

10:30–11:30 and 16:00–16:30

Thursday, 09 October 2014

10:30–11:30 and 16:00–16:30

Friday, 10 October 2014

10:30–11:30

Lunch

Monday–Friday, 13:00–14:00

Drinks and meals are served in the Chronos bar as well as in the restaurant Benada at the hotel reception foyer.

In addition, bistros and supermarkets are available in walking distance in the shopping center Fénix (the entrance is located next to the hotel reception desk).

Icebreaker Reception

Location: Conference Foyer

Date: Monday, 06 October 2014, 19:15–21:00

Announcement of poster award recipient

Location: Conference Foyer

Date: Friday, 10 October 2014, 13:15–14:00

Publications**Paper Publication in Advances in Science and Research**

Authors of contributions that have been accepted to one of the EMS & ECAC 2014 session topics are invited to submit short conference papers to the Open Access Journal *Advances in Science and Research* (<http://www.adv-sci-res.net/volumes.html>).

Details will be sent to the authors by email after the conference.

Upload of presentations

After the conference, you have the option to upload your oral presentation or your poster as Power Point or PDF file for online publication alongside your abstract. This shall give all interested participants the chance to revisit your contribution.

Details will be sent to the authors by email after the conference.

Conference Committees**Programme and Science Committee (PSC)**

Chair: Horst Böttger (EMS Committee on Meetings)

Ingeborg Auer (EUMETNET Climate Programme)
 Ekaterina Batchvarova (Bulgarian Meteorological Soc.)
 Liz Bentley (RMetS, United Kingdom)
 Tanja Cegnar (SEA, Slovenia)
 Ben Dieterink (HMEI)
 Marie Doutriaux Boucher (EUMETSAT)
 Jean-Francois Geleyn (Météo France)
 Renate Hagedorn (DWD, Germany)
 Tomas Halenka (ČMeS, Czech Republic)
 Tim Hewson (ECMWF)
 Sylvain Joffre (FMI, Finland)
 André Jol (EEA)
 Martina Junge (EMS)
 Andrea Kaiser-Weiss (DWD, Germany)
 Haleh Kootval (WMO)
 Will Lang (Met Office, United Kingdom)
 Pierre-Philippe Mathieu (ESA)
 Ewen McCallum (EMS Committee on Meetings)
 Robert Mureau (MeteoGroup)
 Heleen ter Pelkwijk (NVBM, The Netherlands)
 Jan Pretel (CHMI, Czech Republic)
 Hans Richner (SGM, IACETH, Switzerland)

Programme Group Chairs

European Conference on Applied Climatology (ECAC):
 Ingeborg Auer
 The Atmospheric System and its Interactions (ASI):
 Sylvain Joffre
 Communication and Education (CE):
 Tanja Cegnar
 Numerical Weather Prediction (NWP):
 Jean-Francois Geleyn

**Public great debate at Charles University: Climate change – reality without myths
 Panel discussion on climate change issues and consequences, how to cope with them**

Tuesday, 07 October 2014, 18:00–19:30

Panelists: Daniela Jacob, Rasmus Benestad (confirmed)

Contact person: Thomas Halenka

Where: House for Professed, Great Hall (Faculty of Mathematics and Physics, Charles University)
 Malostranské náměstí 25, Praha 1 – Mala Strana (Lesser Town)

How to get there: from Clarion hotel use underground line B, at Mustek change to line A for two stops to Malostranska. Walking distance (10 min) or by tram No. 12, 20, 22 (one stop to Malostranske namesti) (see also page 32).

Advances in Science & Research

The **Open Access Proceedings** of the European Meteorological Society (EMS)

Managing Editor | Martina Junge

Advances in Science and Research (ASR) is the international open access proceedings journal of the European Meteorological Society (EMS). ASR publishes advances in science, profession and application of meteorology, climatology and related fields presented at the Annual Meetings of the EMS as well as at the European Conferences on Applications of Meteorology (ECAM) and on Applied Climatology (ECAC). All manuscripts submitted to ASR undergo a rigorous peer-review organised by the Programme and Science Committee (PSC).

Abstracted/Indexed

Indexed in ADS and GeoRef

Included in Directory of Open Access Journals (DOAJ)

Long-term e-archived in Portico and CLOCKSS

Deadline for submissions: 15 January 2015

Authors of contributions that have been accepted to one of the EMS & ECAC 2014 session topics are invited to submit short conference papers. Details will be sent to the authors by email after the conference.

Exhibition

Monday, 12:00–18:00

Tuesday – Thursday, 09:00–18:00

Please use the opportunity to visit the exhibition in the conference foyer:

American Meteorological Society (booth #3)

45 Beacon Street
Boston, MA 02108
United States

<http://ametsoc.org/>



The American Meteorological Society promotes the development and dissemination of information and education on the atmospheric and related oceanic and hydrologic sciences and the advancement of their professional applications. AMS publishes eleven atmospheric and related oceanic and hydrologic journals — in print and online — sponsors more than 12 conferences annually, and offers numerous programs and services.

Kipp & Zonen B.V. (booth #1)

P.O. Box 507
2600 AM Delft
Netherlands



<http://www.kippzonen.com>

Kipp & Zonen is the specialist in the measurement of solar and sky radiation, from the ultraviolet to the far infrared. We offer a complete range of high quality instrumentation and accessories, from reliable cost-effective products to the best performance available. Our pyranometers, for example, are used in meteorological networks around the world.

The USB flash drives which contain the programme and the abstracts of the conference are sponsored by Kipp & Zonen.

Scintec AG (booth #2)

Wilhelm-Maybach-Strasse 14
72108 Rottenburg
Germany



<http://www.scintec.com>

Scintec produces the most advanced and comprehensive line of wind and temperature profilers in SODAR, RADAR and RASS technology, as well as optical SCINTILLOMETERS for the measurement of boundary layer turbulence and heat flux. Continuing scientific innovation, outstanding product design and customer oriented philosophy has made Scintec a global leader in this field. Please come and visit us at our booth.

The conference lanyards are sponsored by Scintec.

Europhotometeo – EMS Photo Competition

Monday – Friday, 09:00–18:00

The Europhotometeo'14 received again an impressive response throughout Europe and from other parts of the world.

The top ten photos that received the highest ranking in the public opinion poll are displayed in the conference foyer.

Enjoy the photos!



Photographer: C. Schlauri

CVF4 Ventilation Unit

Improved Reliability and Accuracy with the CVF4 Ventilation Unit



- Low power and low maintenance**
- Can be used under all weather conditions**
- Improves accuracy of radiometer data**
- Reduces frequency of dome cleaning**
- Improves stability of measurements**
- Prevents dew**

Ventilation of radiometers improves the reliability and accuracy of the measurements by reducing dust and precipitation of dew on the dome, which would otherwise affect the measurement. The CVF4 is the best ventilation unit currently available for radiometers. The latest flow simulation software and micro flow and temperature measurement devices were used in the development process to maximise the performance and minimize maintenance.

www.kippzonen.com

Opening Session
Monday, 06 October 2014
Lecture Room Zenit

09:30–10:30 Opening ceremony

Opening by the EMS President

Dominique Marbouty, EMS President

Welcome Addresses

Václav Dvořák, CHMI Director

Tomáš Halenka, ČMeS President

Berenika Peštová, Deputy Minister of the Environment, Czech Republic

Tomáš Zima, The Rector of Charles University in Prague

Jan Kratochvíl, The Dean of Faculty of Mathematics and Physics,
Charles University in Prague

Gé Verver, EUMETNET Climate Programme

Robert Mureau, PRIMET

HMEI – The Association of Hydro-Meteorological Equipment Industry

William Gail, AMS President

10:30–11:00 Coffee Break

11:00–13:00 Strategic Lectures

Chair: Dominique Marbouty

Jeremiah Lengoasa, Deputy Secretary-General, WMO

Global Framework for Climate Services

**Jean-Pascal van Ypersele, Université catholique de Louvain, Louvain la Neuve,
IPCC – Vice-Chair WG 2**

The Climate Change Challenge and its Opportunities

**Clare Goodess, Climatic Research Unit, School of Environmental Sciences,
University of East Anglia, WCRP WG on Regional Climate**

*From consultation to co-production – the integration of user needs in the
development of climate science*

Mauro Facchini, DG Enterprise and Industry, Head of Copernicus Services Unit

Title: to be confirmed

13:00 Closing

**ECAC Symposium:
The challenge of Climate Services: bridging the gaps**

**Wednesday, 08 October 2014, 16:30
Lecture Room Zenit**

Climate services are the dissemination of climate information to the public or a specific user. They involve strong partnerships among providers (...) and stakeholders, including government agencies, private interests, and academia, for the purpose of interpreting and applying climate information for decision making, sustainable development, and improving climate information products, predictions, and outlooks (Cited after WMO).

The climate science community finds itself increasingly exposed to various groups of stakeholders asking rather specific questions about consequences, uncertainties, probabilities related to climate and climate change. This corresponds to a wide variety of 'user needs'. Hence, many requests for climate services (CS) will be a two-way exchange: not only will climate information be provided to users, but users will influence the development of climate services and the underpinning research by defining their needs.

Work on climate services is generally organised on a national level. Hence, we often find duplication of efforts. Consistency at a European level would be relevant with regard to data availability, improved tool/methods development and for cross-border issues. (cited after JPI Climate)

To stand up to the challenges of developing and delivering CS in Europe four issues of scientific research and learning in network should be tackled: Improved data availability, better tools/methods for providing CS, consistency in cross-border settings, two-way exchange on climate knowledge.

The questions to be discussed at this plenary session are:

- Is the information we currently provide adapted to user-needs, useful to the users?
- Are there good examples where provision of climate (change) information has led to actions by the users
- What is required to better meet the needs of the users?

16.30–18.00 Moderated Panel Discussion

Introductory Lecture on Climate Services and challenges

Hans von Storch, *Institute of Coastal Research, Head of Department System analysis and Modelling*

Moderator: *Gé Verver, EUMETNET Climate Programme*

Panellists:

Hans von Storch, *Institute of Coastal Research, Head of Department System analysis and Modelling*

Radim Tolasz, *CHMI, Head of Department of Climate Change*

Inger Hansen Bauer, *Norwegian Meteorological Institute*

Chris Hewitt, *UK Met Office, Head of Climate Service Development*

Hilppa Gregow, *FMI and EUMETNET Climate Programme*

User of climate information/services *tbd*

18:00 Closing

Awards Session
Tuesday, 07 October 2014
Lecture Room Zenit

14:00–15:00 Award Ceremonies

Young Scientist Travel Awards
2013 Poster Award
EMS Young Scientist Award
EMS Media Awards
Harry Offen Prize – Announcement 2015
Laudatio for Silver Medalist
Silver Medal Lecture

15:00–15:30 Coffee Break

Young Scientist Travel Awards are given to support participation of outstanding students and young scientists at EMS-co-sponsored conferences. The recipients are selected by the EMS Awards Committee: www.emetsoc.org/governance-structure/project-teams-committees/awards. This year's recipients are listed on page 13.

The **Outstanding Poster Award** has been established in 2009, to highlight good quality posters presented at the EMS Annual Meetings. The winners of the award 2013 are J.S.R. Owen, P. Knippertz, and T.M. Trzeciak, University of Leeds, UK, with the poster '*Severe European cyclones: a storm-prone situation perspective*'. The poster will be on display again in the foyer. The winner of the award 2014 will be announced on Friday and be honoured at the EMS&ECAM 2015 in Sofia. For more details see page 14.

The **EMS Young Scientist Award** is presented annually to acknowledge excellence in young scientists. The award is in form of a prize money and travel expenses to cover the attendance of the EMS Annual Meeting. The awardee is selected by the EMS Awards Committee. The awardee 2014 is Cathryn Birch, University of Leeds. She is awarded for scientific work that brings together models and observations to quantify the processes leading to major biases in weather and climate models. Cathryn Birch will give a Young Scientist Award Lecture on Thursday, 14:00 in Session ASI1. See page 68.

The **EMS Outreach & Communication Award** is given in recognition of projects that explore new and effective ways to communicate the science of meteorology, climatology and related fields to the general public. The projects may deal with the results or the consequences of science, and may also be targeted at a more specific audience. The recipients of the **Media Awards** will also contribute to the session on **Media and Communication, Tuesday, 07 September 2014, 08:30–13:00, Room Taurus**.

The **TV Weather Forecast** is presented to individuals to acknowledge best practice in communication of meteorology.

The new **Award for Achievements in Journalism on Meteorology and Climatology** aims to support and highlight work that is essential to better bridge the often-existing communication gap between science and the public.

The **EMS Silver Medal** is presented annually to a person that has made distinguished



contributions to the development of meteorology in Europe. The Silver Medal 2014 is

awarded to Peter Lynch for his outstanding contribution to meteorological education and outreach activities, his important scientific contribution to Numerical Weather forecasting and his leadership in international collaborations.

Peter Lynch will give a Silver Medal Lecture: "Balanced Flow on the Spinning Globe".

The **Laudatio** is given by David M. Burridge. More details see page 15.



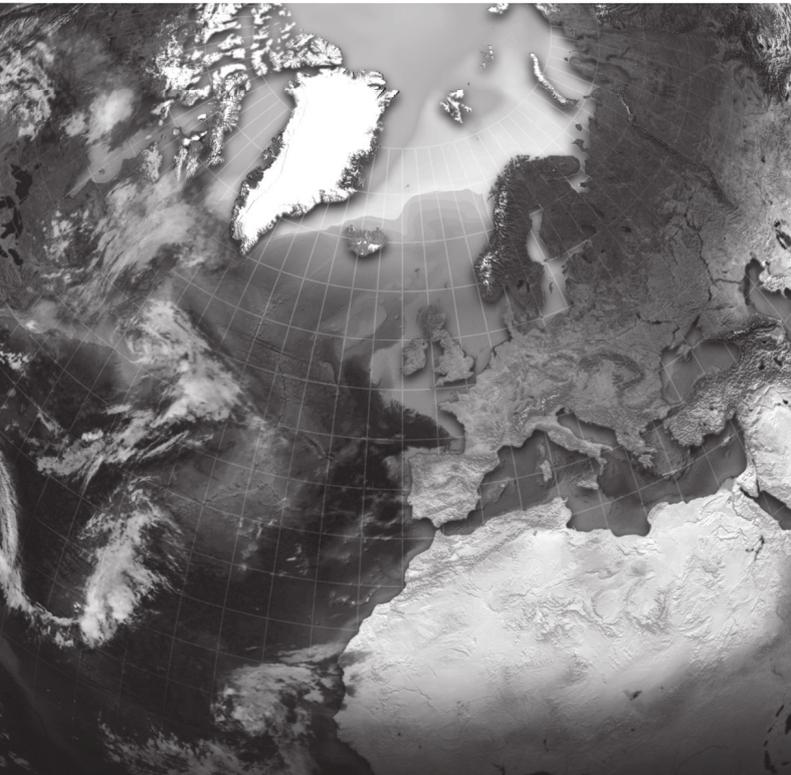
The

Harry Otten Prize

for Innovation in Meteorology

25000 Euro

for the best innovative idea in meteorology



The Harry Otten Prize is a prize of **25000 Euro** that will be awarded every two years for the best innovative idea in Meteorology.

The prize encourages individuals and small groups (maximum of 3 individuals) to propose new ideas of how meteorology in a practical way can further move society forward.

The prize will be awarded during the meeting of the European Meteorological Society (EMS) in Sofia (Bulgaria) 9 September 2015.

Ideas for the prize may be submitted from 15 October 2014 until the closing date of 10 March 2015.

Harry Otten was the founder of MeteoGroup, a successful company providing meteorological services. He expressed his gratitude to the meteorological community by creating an endowment that supports the prize.

The endowment is governed by an independent board. The members of the board also form the jury that awards the prize.

Young Scientist Travel Awards

Ivo van Hooijdonk
EMS2014-9: Shear Capacity as Predictor of Nocturnal Boundary Layer Regimes

Thursday, 09 October 2014
14:30–14:45
 Session ASI8, room Leo + Virgo
 see page 70



Anna Kis
EMS2014-14: Projected changes of percentile-based precipitation indices for the 21st century in Central/Eastern Europe

Friday, 10 October 2014
11:30–11:45
 Session UC2, room Zenit
 see page 80

Rogiros Tapakis
EMS2014-34: Computation Of Cloud Motion For Solar Irradiance Prediction

Monday, 06 October 2014
17:30–17:45
 Session ASI13, room Nadir
 see page 27



João Carlos Teixeira
EMS2014-24: Identifying coupling Modes of Particulate Matter and Meteorological Fields through Singular Vector Decomposition

Monday, 06 October 2014
14:00–14:15
 Session ASI11, room Tycho
 see page 25

Outstanding Poster Award

An Outstanding Poster Award will be given at the 14th EMS & 10th ECAC in Prague.

A Select Committee has been established; members are:

- Ingeborg Auer, Austria
- Frank Beyrich, Germany
- Marie Doutriaux Boucher, EUMETSAT
- Tomas Halenka, Czech Republic
- Ewen McCallum, UK (chair)

The selection of the outstanding poster will be based on the following criteria:

- Scientific quality;
- Innovativeness of the approach;
- Potential impacts of the results;
- Presentation aspect, including clarity of the message to readers of your poster.

Award

The author(s) will receive a certificate, one registration fee waiver for the EMS&ECAM 2015 and the poster will be highlighted as example of Best Practice on the EMS Website. The recipient of the award will be announced on Friday, 10 October 2014, 13:15, in the foyer.

Award winning poster 2013

Severe European cyclones: a storm-prone situation perspective, by J.S.R. Owen, P. Knippertz, and T.M. Trzeciak, University of Leeds, UK.

The poster is on display in the foyer, and at the back of this programme book.

All posters are on display in room **Meridian**. ECAC and NWP posters in Poster area **LEFT**, **poster numbers all start with L**.

ASI and CE posters Poster area **RIGHT**, **poster numbers all start with R**.

Poster numbers distinguish between **front** of the row of poster boards (**LF, RF**) and **back** of the poster board row (**LB, RB**).

Please see the plan on page 93.

During any poster session author-in-attendance-time is only scheduled for posters on one side of the aisles (back or front).

Poster sessions:

Monday, 06 October 2014, 16:00–17:00

UC1: Climate change detection

NWP2: Numerical aspects in NWP models

NWP3: Data assimilation

ASI11: Environmental meteorology

ASI13: Energy meteorology

Tuesday, 07 October 2014, 10:30–11:30

UC1: Climate change detection

UC5: Synoptic Climatology

SE2: CORDEX

SE4: European Projects CS

ASI13: Energy meteorology

CE1: Media and Communication

NWP4: Probab. & ensemble forecasting

Wednesday, 08 October 2014, 10:30–11:30

SE5: GFCS in non-European regions

CE2: Adaptation

NWP1: Dynamics high impact weather

ASI4: Coastal meteorology & oceanog.

ASI13: Energy meteorology

Wednesday, 08 October 2014, 16:00–17:00.

MC3: Historical Climatology

SE1/CE6: Climate Services partnerships

NWP5/ASI14: Mountain Meteorology

ASI7: Atmospheric hazards

Thursday, 09 October 2014, 10:30–11:30

MC1: Climate monitoring

MC2: Spatial climatology

UC4/SE3: Global & regional reanalyses

CE3: Communication of uncertainty

ASI1: Dynamical Meteorology

ASI8: BL physics and parameterizations

ASI10/MC5: Urban climate

ASI12/MC4: Phenology & Agromet.

Friday, 10 October 2014, 10:30–11:30

UC2: Climate prediction

UC3: Verification

CE4: Education

ASI2: Space weather

ASI5/CE8: Human biometeorology

ASI6: Atmospheric measurements

EMS Silver Medal Lecture 2014

Prestigious award for outstanding contributions to meteorological education and outreach

The European Meteorological Society (EMS) has chosen **Prof. Peter Lynch** as Laureate of the EMS Silver Medal 2014. He is honoured for his outstanding contribution to meteorological education and outreach activities, his important scientific contribution to Numerical Weather forecasting and his leadership in international collaborations.

The Silver Medal ceremony, which includes the Silver Medal Lecture "Balanced Flow on the Spinning Globe" by the Laureate, will be held on Tuesday, 07 October 2014, during the EMS Annual Meeting and European Conference on Applied Climatology (ECAC) in Prague, Czech Republic.

Peter Lynch has worked tirelessly at promoting meteorological education and enhancing public understanding of meteorology and related sciences through numerous lectures, appearances on TV and Radio news channels and a topical column in a newspaper entitled "That's Math". He is modern with blogs and likes to share his knowledge in the media by maintaining open access to all of his publications and lecture material on the web. He is an excellent teacher and communicator of complex scientific topics.

Peter Lynch has demonstrated scientific leadership in many aspects of meteorological science, in particular in numerical weather forecasting (NWP). Most notable is his pioneering work on the method of initialization, based on digital filtering (DFI), to control spurious gravity-wave oscillations in NWP models. He was also instrumental in establishing a Community Climate Change Consortium for Ireland and led the automation and extension of the national observing network, managing the design and deployment of the unified climate and synoptic observing network (TUCSON).

Peter Lynch has been of service to the European research community through an impressive number of activities, such as being

Project Leader of the HIRLAM Project (High Resolution Limited Area Model, 1997–1999), and a member of many international committees including the Scientific Advisory Committee of the European Centre for Medium-range Weather Forecasts, the International Association for Meteorology and Atmospheric Sciences and the Advisory Board for Tellus.

Peter Lynch's blog. thatsmaths.com:
<https://twitter.com/thatsmaths>

Laudatio

The laudatio will be given by David Burridge, the recipient of the EMS Silver Medal in 2010, honoured for his outstanding leadership and scientific contributions in the field of numerical weather prediction.

David Burridge held the position of Director of the European Centre for Medium-Range Weather Forecasts (ECMWF) from 1991 to 2004. His innovative contributions to the field of numerical weather prediction were a major contribution to the establishment and maintenance of the ECMWF as a world-leading forecast centre. After retirement from ECMWF he has been shaping and steering the implementation of the THORPEX Programme.

David Burridge was the President of the EMS from 2005 to 2008.

EMS Silver Medal

The EMS Silver Medal was established in 2008 to honour important contributions to the development of meteorology in Europe. The Award is presented annually. Candidates for the EMS Silver Medal are nominated by Member Societies and Associate Members of the EMS. The EMS Awards Committee, consisting of senior members of meteorological institutions in Europe, makes recommendations to the EMS Council for a final decision.

Previous recipients include Karin Labitzke (Germany), René Morin (France), Lennart Bengtsson (Sweden/Germany), David Burridge (United Kingdom), Jean-François Geleyn (France/Czech Republic), Tim Palmer (United Kingdom) and Hartmut Graßl (Germany).

Side Meetings & Workshops

Monday, 06 October 2014

14:00–19:00	Remote Sensing in Climatology Contact: Richard Müller Side meeting room: Aquarius
14:00–19:00	Communications workshop for European weather services I (by invitation only) Contact: Michael Williams Room: Taurus

Tuesday, 07 October 2014

11:30–15:00	EUMETNET Climate Expert Team Contact: Ingeborg Auer Side meeting room: Aquarius
14:00–17:30	Communications workshop for European weather services II (by invitation only) Contact: Michael Williams Room: Taurus
15:30–17:00	Programme and Science Committee EMS&ECAM 2015 Contact: Martina Junge (by invitation only) Side meeting room: Aquarius
17:00–19:00	WMO RA VI RCC Network: Informal coordination meeting Contact: Stefan Rösner & Aryan F.V. van Engelen Room: Quadrant

Wednesday, 08 October 2014

08:30–13:00	Tips for effectively dealing with the media – training workshop on communication (public, registration requested) Contact: Tanja Cegnar Side meeting room: Aquarius
12:00–15:00	ESSL Executive Board Meeting Contact: Alois M. Holzer (by invitation only) Room: Quadrant
14:00–16:00	The future of the EMS Annual Meetings: how to organise a conference with reduced carbon foot print Contact: Renate Hagedorn Side meeting room: Aquarius
16:00–18:00	Harry Otten Board Meeting Contact: Dennis Schulze Room: Quadrant
17:30–19:00	ESSL General Assembly Convener: Alois M. Holzer (by invitation only) Side meeting room: Aquarius

Thursday, 09 October 2014

08:30–19:00	ESSL ESWD meeting Contact: Alois M. Holzer (by invitation only) Room: Quadrant
08:30–13:00	RCC Network (RA VI) Workshop Contact: Stefan Rösner, DWD (public, registration requested) Side meeting room: Aquarius
14:00–16:00	JPI climate meeting on user-provider interaction Contact: Carlo Buontempo Side meeting room: Aquarius

Friday, 10 October 2014

08:30–13:00	CORECLIMAX Capacity Building Workshop – Climate Services: Products and tools to make choices Contact: Bob Su & Wim Timmermans (by registration only) For details see page 79. Side meeting room: Aquarius
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Join two interesting EMS Workshops**Tips for effectively dealing with the media**

Wednesday, 08:30–13:00, room Aquarius
Organisers: Tanja Cegnar, Ewen McCallum

This interesting and informative workshop will be run by experienced professionals used to dealing with the media in their daily work. The half day workshop will begin with a brief introduction about its content and what we hope to achieve. It will continue with interactive exercise involving media interviews and feedback.

You will learn how to create your key messages in preparing for the interviews and in delivering them at interview. Are you aiming to attract the news media attention with your media release including all the five W's and an eye-catching headline? If yes, come to the training workshop.

If you are interested in participating in the training workshop we would appreciate if you could contact us by sending an e-mail to workshop@emetsoc.org, so we get an idea how many participants we can expect.

The future of the EMS Annual Meetings: how to organise a conference with reduced carbon foot print

Wednesday, 14:00–16:00, room Aquarius
Organisers: Renate Hagedorn, Martina Junge

Between 400 and 700 participants each year attend the EMS Annual Meeting & partner conferences. Though small by comparison, the travel across Europe, the amount of paper and waste produced as a result is considerable. The EMS thus is looking at the different aspects and impacts of the meetings and is in the process of developing guidelines for the organisation of the meeting. These should be continually evaluated as technologies and mitigation options continue to develop and we are inviting every interested participant to this mini workshop to discuss and brainstorm on concepts for future scientific meetings.

The goal of this workshop is to develop possible improvements and innovative ideas to change the setup of scientific meetings. The workshop is organised by the EMS Committee on Meetings, and is open to everyone interested in thinking about the future of scientific meetings.



EUMETSAT METEOROLOGICAL SATELLITE

CONFERENCE 2015

The EUMETSAT Meteorological Satellite Conference has been a key annual event for the meteorological community since the organisation's inception in 1986.

The 2015 EUMETSAT Meteorological Satellite Conference will be held in scenic Toulouse, France, and hosted and co-organised by Météo-France, the national weather and climate service for France.

The overarching theme will be "advances in nowcasting and limited area modelling and preparation for new geostationary satellites" and sessions will cover marine meteorology and oceanography, scientific achievements and future objectives for satellite climate observations, and atmospheric composition to name but some.

WHO SHOULD ATTEND

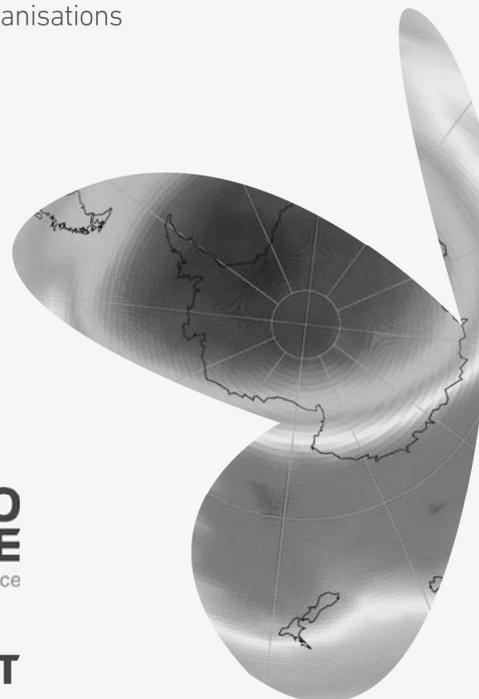
- Experts from meteorological services, universities, satellite operating agencies working in the field of satellite meteorology and related applications in weather forecasting, climate research and services, oceanography and the environment.
- Interested scientists and students from universities and organisations dealing with Earth observations.

FOR MORE INFORMATION CONTACT:

Conference-organisation@eumetsat.int

Abstract submission deadline is 30 January 2015

TOULOUSE. FRANCE.
21-25 SEPTEMBER.



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EMS - AN UMBRELLA ORGANISATION FOR THE METEOROLOGICAL COMMUNITY IN EUROPE

EMS is the association of meteorological societies in Europe. National meteorological and hydrological services, private service providers, manufacturers, educational and academic institutions and European organisations are an integral part of the network and support the EMS as Associate Members.

... If you are a member or staff of one of the EMS Member organisations you can benefit from **reduced registration fees at EMS Annual Meetings** ...

OUR MISSION:

- ... To advance the science, profession and application of meteorology and of related sciences for the benefit of the whole population

OUR ACTIVITIES:

- ... Annual conference
- ... Awards Programme: Young Scientist Travel Awards, Young Scientist Award, Media and Outreach Awards, Silver Medal
- ... Publications: *emetsoc.org*, ASR-Proceedings of the EMS/ECAC/ECAM meetings, Annual Report, bi-monthly electronic newsletter
- ... Biennial photo competition of meteorological phenomena - **see the exhibition of the winning entries 2014 at this conference in the foyer**
- ... Code of Practice on communication
- ... Workshops: training in communication, tools for forecasters

BENEFITS

- ... Individual members of Member Societies and Associate Members are eligible for reduced registration fees at EMS Annual Meetings
- ... Travel support for young scientists in Europe
- ... Information on activities of the European meteorological community on the website
- ... Support for topical and regional meetings organised by EMS Members
- ... Free publication of job opportunities on the EMS Website

FOR MORE INFORMATION

about the activities and benefits of EMS Membership visit the EMS Website at www.emetsoc.org.

PEOPLE



Dominique Marbouty
President
Term: 09/2011 – 10/2014



Horst Böttger
Chair Committee on Meetings



Bob Riddaway
Vice-President
Term: 09/2013 – 09/2016



Tanja Cegnar
Chair Media Team



Jean-Pierre Chalon
Treasurer
Term: 09/2011 – 10/2014



Guðrún Nína Petersen
Chair Awards Committee



Tomas Halenka
Chair Education
Project Team

Monday, 06 October 2014						
09:30–10:30	<p align="center">Opening Session I Room Zenit Opening by the EMS President and Welcome Addresses see also page 9.</p>					
10:30	Coffee Break					
11:00–13:00	<p align="center">Opening Session I Room Zenit Strategic Lectures see also page 9.</p>					
13:00	Lunch Break					
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius
14:00–16:00	UC1: Climate change detection, assessment of trends, variability and extremes	ASI13: Energy Meteorology	NWP2: Numerical aspects and physical parametrization integration	ASI11: Meteorological processes, atmospheric composition and pollution	SIM6: Communication workshop European weather services	SIM1: Remote Sensing in Climatology
16:00–17:00	<p align="center">Poster Session & Coffee Break I Foyer and Room Meridian</p> <p align="center"><i>Poster authors in attendance time for the following sessions:</i> ECAC programme group: UC1 (LF1 - LF18) NWP programme group: NWP2 (LB19 - LB21), NWP3 (LB22 - LB25) ASI programme group: ASI11 (RF15 - RF27), ASI13 (RB2 - RB10)</p>					
17:00–19:00	UC1	ASI13	NWP2 until 17:30 NWP3: Data assimilation & use observations 17:30-19:00	ASI11	SIM6	SIM1
19:15	Ice breaker in exhibition area (Foyer) and poster area (room Meridian)					

In the detailed daily programme (on pages 22 to 31) the related ECAC, ASI and NWP sessions are listed in the following order: UC1, NWP2, NWP3, ASI11, ASI13.

Poster Display Time Monday – Wednesday lunchtime

Authors are kindly asked to put up their posters as soon as possible within the allocated display time in order to enable the conference participants to view their posters at any time within the display days, and to take them down on Wednesday between 13:00–14:00. Posters that have not been removed within this dismantling time will be removed and disposed off.

Special Events

SPS1 Opening Session

Lecture Room: Zenit

09:30–10:30

Chairperson(s): Dominique Marbouty

Opening and Welcome Addresses

09:30–09:40: Dominique Marbouty, EMS President:
Opening

09:40–09:45: Václav Dvořák, CHMI Director

09:45–09:50: Tomas Halenka, ČMeS President

09:50–09:55: Berenika Peštová, Deputy Minister of the
Environment, Czech Republic

09:55–10:00: Tomáš Zima, The Rector of Charles
University in Prague

10:00–10:05: Jan Kratochvíl, The Dean of Faculty of
Mathematics and Physics, Charles University in Prague

10:05–10:10: Gé Verver, EUMETNET Climate
Programme

10:10–10:15: Robert Mureau, PRIMET

10:15–10:20: HMEI – The Association of
Hydro-Meteorological Equipment Industry

10:20–10:25: William Gail, AMS President

10:25–10:30: Closing Opening Ceremony

10:30 Coffee Break

11:00–13:00

Chairperson(s): Dominique Marbouty

Strategic lectures: Creating climate services through partnerships

11:00–11:30:
Global Framework for Climate Services
Jeremiah Lengoasa
Deputy Secretary-General, WMO

11:30–12:00: EMS2014-668
The Climate Change Challenge and its Opportunities
Jean-Pascale van Ypersele
Université catholique de Louvain, ELI, Belgium

12:00–12:30: EMS2014-665
From consultation to co-production - the integration of
user needs in the development of climate science
Clare Goodess
University of East Anglia, Climatic Research Unit,
United Kingdom (C.Goodess@uea.ac.uk)

12:30–13:00:

Mauro Facchini
DG Enterprise and Industry, Head of Copernicus
Services Unit

END OF ORAL PROGRAMME SPS1

European Conference on Applied Climatology (ECAC)

Understanding processes and climate change

UC1 Climate change detection, assessment of trends, variability and extremes

Convener: Albert M.G. Klein Tank
Co-Conveners: Martine Rebetez; Monika Lakatos
Lecture Room: Zenit

14:00–16:00

Chairperson(s): Monika Lakatos

14:00–14:15: EMS2014-37
The blocking process and their impact on the
anomalous weather in Ukraine
Luliana Bazalieieva, Vira Balabukh
Ukrainian Hydrometeorological Institute, Department of
Synoptic Meteorology, Kiev, Ukraine
(bazaleeva.y@gmail.com, balabukh@rambler.ru)

14:15–14:30: EMS2014-443
Joint examination of climate variables, Standardized
Precipitation and Temperature Index (SPTI)
Tamás Szentimrey, Mónika Lakatos, Zita Bihari
Hungarian Meteorological Service, Budapest, Hungary
(szentimrey.t@met.hu)

14:30–14:45: EMS2014-567
Climate extremes in Poland - their variability and
changes with connection to change in mean climate
Joanna Wibig
University of Lodz, Meteorology and Climatology, Lodz,
Poland (zameteo@uni.lodz.pl)

14:45–15:00: EMS2014-145
Observations based analysis of hot summers over
European Russia
Yulia Zyulyaeva, Igor Zveryaev, Peter Koltermann
P.P. Shirshov Institute of Oceanology, RAS, Laboratory
of Ocean-Atmosphere Interaction and Monitoring of
Climate Change, Moscow, Russian Federation
(yulia@sail.msk.ru)

15:00–15:15: EMS2014-250

Characteristics of western European heat waves simulated by the CMIP5 models - Contributions to the ensemble spread in future climate projections

Robert Schoetter, Julien Cattiaux, Hervé Douville
CNRM-GAME, Toulouse, France
(robert.schoetter@meteo.fr)

15:15–15:30: EMS2014-388

Effect of temporal autocorrelations on the simulation of dry spells and heat waves in high resolution ALARO-Climate/CZ RCM

Lucie Pokorna, Ondrej Lhotka, Ales Farda, Petr Stepanek
Institute of Atmospheric Physics ASCR, Dept. of Climatology, Prague, Czech Republic
(pokorna@ufa.cas.cz)

15:30–15:45: EMS2014-464

Issues in estimating past climate change at local scale. Case study: the recent warming (1959-2009) over France

Lola Corre, Aurélien Ribes, Anne-Laure Gibelin, Brigitte Dubuisson
Météo-France, Division de la Climatologie, Toulouse, France (lola.corre@meteo.fr)

15:45–16:00: EMS2014-496

Quantification of the Urban Heat Island effect on the rise of the European temperature

Gerard van der Schrier, Else van den Besselaar, Albert Klein Tank, Theo Brandsma, Anthi Chrysanthou
Royal Netherlands Meteorological Institute, Climate Analysis, De Bilt, Netherlands (schrier@knmi.nl)

16:00 Coffee Break & Poster Sessions**17:00–19:00**

Chairperson(s): Martine Rebetez

17:00–17:15: EMS2014-167

The Summer Asian monsoon in the CMIP5 projections: A link between the change of extreme precipitation and the monsoon dynamics.

Nicolas Freychet, Chi-Hua Wu, Chia Chou, Huang-Hsiung Hsu
Taiwan, Province Of China
(nicolas.freychet@gmail.com)

17:15–17:30: EMS2014-551

Future regionalized precipitation and temperature of Mexico: CMIP5 versus CMIP3

Martin Jose Montero-Martinez, Mercedes Andrade-Velazquez
Mexican Institute of Water Technology, Jiutepec, Mor. Mexico (martin_montero@tlaloc.imta.mx)

17:30–17:45: EMS2014-107

The influence of global warming on extremes in wet-day frequency and wet/dry spell durations in Norway

Reidun Gangstø, Rasmus Benestad, Hans Olav Hygen
MET Norway, The Norwegian Meteorological Institute, Oslo, Norway (reidung@met.no)

17:45–18:00: EMS2014-166

Precipitation changes in the Baltic countries in 1966-2013

Jaak Jaagus, Agrita Briede, Egidijus Rimkus
University of Tartu, Ecology and Earth Sciences, Geography, Tartu, Estonia (jaak.jaagus@ut.ee)

18:00–18:15: EMS2014-289

Precipitation trends and variability within the Eastern Mediterranean region for the 1961-2012

Shifa Mathbout, Joan Albert López Bustins, Juerg Luterbacher, Javier Martin vide
Researcher in the Climatology Group at University of Barcelona

18:15–18:30: EMS2014-332

Nonstationary return levels for rainfall in Spain

Sylvie Parey, Francisco Javier Acero, Thi Thu Huong Hoang, Didier Dacunha-Castelle
EDF, R&D, CHATOU, France (sylvie.parey@edf.fr)

18:30–18:45: EMS2014-338

Meteorological drought trends in Europe for the period 1950-2012

Jonathan Spinoni, Gustavo Naumann, Juergen Vogt, Paulo Barbosa
European Commission, Joint Research Centre, Institute for Environment and Sustainability, Italy
(jonathan.spinoni@jrc.ec.europa.eu)

18:45–19:00: EMS2014-511

Changes in the thermodynamic instability over the North-Atlantic European region and connection with changes in the rain showers in Romania

Aristita Busuioc, Marius-Victor Birsan, Daniel Victor Carburaru, Madalina Baciuc, Alina Orzan, Cerasela Stoica
National Meteorological Administration, Bucharest, Romania (aristita_busuioc@yahoo.com)

ORAL PROGRAMME UC1 continues Tuesday morning in Room Tycho**Numerical Weather Prediction****NWP2 Numerical aspects and physical parametrization integration in NWP models**

Convener: Petra Smolikova

Co-Convener: Daniel Reinert

Lecture Room: Leo + Virgo

14:00–16:00

Chairperson(s): Petra Smolikova

14:00–14:15: EMS2014-238

ICON - Towards operational numerical weather prediction

Daniel Reinert, Günther Zängl, Florian Prill and the ICON development Team
German Weather Service, FE13, Offenbach am Main, Germany (daniel.reinert@dwd.de)

14:15–14:30: EMS2014-263

Multi-scale parameterization concept ALARO: an example of its concretization

Radmila Brožková, Jean-François Geleyn
ONPP/CHMI, Prague, Czech Republic
(radmila.brozkova@chmi.cz)

14:30–14:45: EMS2014-279

ACRANEB2 radiative transfer scheme - pushing the limits of broadband approach

Ján Mašek, Jean-François Geleyn, Radmila Brožková, Tomáš Král, Olivier Giot, Haliima Okodel Achom, Peter Kuma
CHMI, Prague, Czech Republic (jan.masek@chmi.cz)

14:45–15:00: EMS2014-416

Extension of turbulent scheme with prognostic TKE towards higher order solutions - prognostic TPE and parametrisation of TOMs

Ivan Bašták Ďurán, Jean-François Geleyn, Filip Váňa
ONPP/CHMI, Praha, Czech Republic,
ivan.bastak@chmi.cz

15:00–15:15: EMS2014-472

Extending a dry turbulence scheme towards all moist aspects - main challenges, guidelines for maintaining consistency and practical solutions

Jean-François Geleyn, Ivan Bašták Ďurán, Pascal Marquet
CNRM, Météo-France, Toulouse, France
(jean-francois.geleyn@meteo.fr)

15:15–15:30: EMS2014-417

Persistence as a reference in determining rare event forecasting skill

Iris Odak, Zoran Pasarić
Meteorological and Hydrological Service, Zagreb, Croatia (iris.odak@cirus.dhz.hr)

15:30–15:45: EMS2014-377

Evaluation of high resolution WRF-ARW model simulations for Singapore region

Jitendra Singh, Kyongmin Yeo, Liu Xiao, Jayant R. Kalagnanam
IBM Research Collaboratory Singapore
(jsingh@sg.ibm.com)

15:45–16:00: Discussion**16:00 Coffee Break & Poster Sessions****17:00–17:30**

Chairperson(s): Daniel Reinert

17:00–17:15: EMS2014-7

Achieving seventh-order amplitude accuracy in leapfrog integrations

Paul Williams
University of Reading, Department of Meteorology, Reading, United Kingdom (p.d.williams@reading.ac.uk)

17:15–17:30: EMS2014-526

Finite elements used in the vertical discretization of the fully compressible forecast model ALADIN-NH

Jozef Vivoda, **Petra Smolíková**, Karim Yessad, Pierre Bénard, Álvaro Subías, Juan Simarro
CHMI, Prague, Czech Republic

END OF ORAL PROGRAMME NWP2**NWP3 Data assimilation and use of observations in meteorology and oceanography**

Convener: Alexander Cress

Co-Convener: Sarah Dance

Lecture Room: Leo + Virgo

17:00–19:00

Chairperson(s): Alexander Cress

17:30–17:45: EMS2014-533

High resolution data assimilation setup in ALADIN/CHMI

Antonín Bučánek, Alena Trojáková
ONPP/CHMI, Praha, Czech Republic
(antonin.bucanek@chmi.cz)

17:45–18:00: EMS2014-548

A comparison between the MetOffice ETKF (MOGREPS) and an ensemble of 4DEnVars

Marek Wlasak, Stephen Pring, Mohamed Jardak
Met Office, Data Assimilation, Exeter, United Kingdom
(marek.wlasak@metoffice.gov.uk)

18:00–18:15: EMS2014-446

Spectral Ensemble Kalman Filters

Jan Mandel, Ivan Kasanický, Martin Vejmelka, Viktor Fuglík, Marie Turčičová, Kryštof Eben, Jaroslav Resler, Pavel Juruš
University of Colorado Denver, USA
(jan.mandel@gmail.com)

18:15–18:30: EMS2014-248

Generating high resolution area-wide precipitation fields from rain gauge measurements and satellite data

Leda Pscheidt, Petra Friederichs, Daniel Cooley, Jennifer Hoeting
Meteorological Institute, University of Bonn, Bonn, Germany (pscheidt@uni-bonn.de), Hans-Ertel Centre for Weather Research - Climate Monitoring Branch, Deutscher Wetterdienst, Offenbach, Germany

18:30–18:45: EMS2014-273

ADM-Aeolus: ESA's Novel Wind Mission

Anne Grete Straume, Paul Ingmann, **Dirk Schuettemeyer**, Frank de Bruin, Anders Elfving, Thomas Kanitz, Fabio Buscaglione, Wolfgang Lengert, Bojan Bojkov, Angelika Dehn, Stefano Casadio
ESA, Mission Science Division, Noordwijk, Netherlands (dirk.schuettemeyer@esa.int)

18:45–18:55: Short poster introductions (2 minutes per poster)**END OF ORAL PROGRAMME NWP3**

The Atmospheric System and its Interactions

ASI11 Meteorological processes, atmospheric composition and pollution

Convener: Sylvain M. Joffre

Co-Conveners: Martin Piringner; Charles Chemel; Martijn Schaap; Alexander Baklanov

Lecture Room: Tycho

14:00–16:00

Chairperson(s): Charles Chemel

Regional/Global aspects

14:00–14:15: EMS2014-24 (YSTA)

Identifying coupling Modes of Particulate Matter and Meteorological Fields through Singular Vector Decomposition

João Carlos Teixeira, Ana Cristina Carvalho, Maria João Carvalho, Alfredo Rocha
CESAM - Department of Physics, University of Aveiro, Campus Universitário de Santiago, 3810-193 Aveiro, Portugal. (jcmt@ua.pt)

14:15–14:30: EMS2014-89

Modelling the radiative impacts of aerosol with a regional-scale air quality model

Astrid Manders, Bas Henzing, Lyana Curier, Arjo Segers, Martijn Schaap
TNO, Climate, Air and Sustainability, Netherlands (astrid.manders@tno.nl)

14:30–14:45: EMS2014-392

Impact of atmospheric dynamics and photochemistry on the interannual variability of NO₂ column over Europe based on GEM-AQ model simulation

Karol Szymankiewicz, Jacek W. Kaminski, Joanna Struzewska
Warsaw University of Technology, Department of Environmental Engineering Systems, Warsaw, Poland (e-mail: karol_szymankiewicz@is.pw.edu.pl)

14:45–15:00: EMS2014-397

Impact of emission data on chemical weather forecast during iAREA project pre-campaign at Svalbard in March 2014

Jacek W. Kaminski, Joanna Struzewska, Maciej Jefimow, Pawel Durka
Centre for Research in Earth and Space Science, York University, Toronto, Canada, EcoForecast Foundation, Warsaw, Poland

15:00–15:15: EMS2014-111

Large-eddy simulation of turbulent winds during the Fukushima Daiichi Nuclear Power Plant accident by coupling with a meso-scale meteorological simulation model

Hiromasa Nakayama, Tetsuya Takemi, Haruyasu Nagai
Japan Atomic Energy Agency, Ibaraki, Japan (nakayama.hiromasa@jaea.go.jp)

15:15–15:30: EMS2014-359

Algae and pollen in ice cores from Altai glaciers as indicators of regional atmospheric circulations

Elena Yu. Mitrofanova, Tatyana S. Papina, Natalia S. Malygina, Anya Eichler, Pierre-Alain Herren, Margit Schwikowski
Institute for Water and Environmental Problems SB RAS, Barnaul, Russian Federation (emit@iwep.ru)

15:30–15:45: EMS2014-146

Precipitation Scavenging of Gaseous Pollutants with Arbitrary Solubility in Inhomogeneous Atmosphere
Tov Elperin, **Andrew Fominykh**, Boris Krasovitev Ben-Gurion University of the Negev, Mechanical Engineering, Israel

15:45–16:00: EMS2014-299

Observation of aerosol transfer over Russian lidar network after chelyabinsk meteorite falling in 2013
Alexander Cheremisin, Pavel Novikov, Vladimir Ivanov, Dmitry Zubachev, Vladimir Korshunov, Vladimir Lapshin, Mihail Ivanov, Kirill Galkin, Petr Gubko, Dmitry Antonov, Georgy Tulinov, Semyon Nikolashkin, Valery Marichev
Siberian Federal University, Krasnoyarsk, Russia (aacheremisin@gmail.com)

16:00 Coffee Break & Poster Sessions

17:00–19:00

Chairperson(s): Martijn Schaap

Local/Sub-Regional aspects

17:00–17:15: EMS2014-27

Large Eddy Simulation of the effect of trees on street canyon pollution dispersion

Vladimir Fuka, Tomáš Halenka, Josef Brechler
Department of Meteorology and Env. Protect., Faculty of Math. and Phys., Charles University, Prague, Czech Republic (vladimir.fuka@mff.cuni.cz)

17:15–17:30: EMS2014-660

Further refinement and evaluation of a statistical approach for determining concentration increments in urban areas

Nicolas Moussiopoulos, John Douros, George Tsegas, Eleftherios Chourdakis, Sandra Torras Ortiz
Laboratory of Heat Transfer and Environmental Engineering, Aristotle University University Campus, Greece (moussio@eng.auth.gr)

17:30–17:45: EMS2014-414

Minimization of air pollution monitoring cost in the urban area

Hamid Taheri Shahraiyani, Sahar Sodoudi, Ulrich Cubasch, Andreas Kerschbaumer
Institut für Meteorologie, Freie Universität Berlin, Carl-Heinrich-Becker-Weg 6-10, 12165 Berlin, Germany., Faculty of Civil Engineering, Shahrood University, Shahrood, Iran

17:45–18:00: EMS2014-262

Comparative Analysis of Fog Prediction Algorithms via Use of WRF Model over Istanbul

Merve Gokgoz, Yasar Burak Oztaner, Alper Unal, Tayfun Kindap
Istanbul Technical University, Eurasia Institute of Earth Science, Department of Climate and Marine Science, Istanbul, Turkey (gokgozmerve@gmail.com)

18:00–18:15: EMS2014-597

Effects on air quality over harbours due to the interplay between coastal microclimate and ship emissions

Stefania Del Frate, Irene Gallai, Dario B. Giaiotti, Elena Ganesini, Francesco Montanari, Alessandra Petrini, Alessandra Pillon, Tommaso Pinat, **Fulvio Stel**
Regional Agency for the Environmental Protection of Friuli Venezia Giulia, Regional Center for Environmental Modeling, Palmanova, Italy (fulvio.stel@arpa.fvg.it)

18:15–18:30: EMS2014-106

Separation distances around livestock buildings derived with two models

Martin Piringer, Werner Knauder, Erwin Petz, Günther Schaubberger
Central Institute for Meteorology & Geodynamics, Environmental Meteorology, Vienna, Austria (martin.piringer@zamg.ac.at)

18:30–18:45: EMS2014-617

Pollutant dispersion in a developing valley cold-air pool

Charles Chemel, Paul Burns
National Centre for Atmospheric Science, University of Hertfordshire, Hatfield, United Kingdom (c.chemel@herts.ac.uk)

18:45–19:00: EMS2014-408

Impact of aerosol feedbacks on total solar radiation based on the on-line coupled climate model GEM-AC for current climate conditions

Maciej Krystian Jefimow, Joanna Struzewska, Jacek Kaminski
Warsaw University of Technology, Department of Environmental Engineering, Warsaw, Poland (maciej_jefimow@is.pw.edu.pl)

END OF ORAL PROGRAMME ASI11**ASI13 Energy Meteorology**

Convener: Sven-Erik Gryning

Co-Conveners: Ekaterina Batchvarova; Marion Schroedter-Homscheidt; Lucien Wald

Lecture Room: Nadir

14:00–16:00

Chairperson(s): Marion Schroedter-Homscheidt

14:00–14:15: EMS2014-378

Climate change impact on European photovoltaic power production: insights from Euro-Cordex

Sonia Jerez, Robert Vautard, Isabelle Tobin, Juan Pedro Montávez, Jose María López-Romero, Françoise Thais, Martin Wild, Klaus Keuler, Michal Belda, Ole Bøssing Christensen, Erik van Meijgaard, Samuel Somot, Michel Déqué
Department of Physics, University of Murcia, Spain

14:15–14:30: EMS2014-404

Can chemical transport models improve global horizontal irradiance forecasts?

Marek Brabec, **Ondřej Konár**, Jaroslav Resler, Pavel Krč, Emil Pelikán, and Kryštof Eben
Institute of Computer Science, Prague, CZ, (konar@cs.cas.cz)

14:30–14:45: EMS2014-253

On the induced uncertainties in direct normal irradiance calculations under cloud-free conditions due to aerosol optical depth from MACC re-analysis data

Vassileios Salamalikis, Blanc Philippe, **Andreas Kazantzidis**
Laboratory of Atmospheric Physics, Physics Department, University of Patras, Greece (akaza@upatras.gr)

14:45–15:00: EMS2014-516

A new method of MSG images processing for hourly solar radiation assessment.

Samuel Quesada-Ruiz, Alvaro Linares-Rodriguez, Clara Arbizu-Barrena, Mercedes Martinez-Durban, Francisco Santos-Alamillos, Joaquín Alonso, David Pozo-Vazquez, Jaquin Tovar-Pescador
Dept of Physics, Univ. of Jaén, Spain

15:00–15:15: EMS2014-29

Solar resource assessment in the Alps: a comparison of available datasets for the Trentino region

Lavinia Laiti, Lorenzo Giovannini, Luca Panziera, Dino Zardi
University of Trento, Civil, Environmental and Mechanical Engineering Department, Trento, Italy

15:15–15:30: EMS2014-157

Satellite-based PV potential climatology for Alpine Regions

Jochen Wagner, Reto Stöckli, Anke Tetzlaff, Martial Duguay, Marc Zebisch
EURAC Research, Institute for Applied Remote Sensing, Bolzano, Italy

15:30–15:45: EMS2014-42

A new approach for estimating Photosynthetically Active Radiation in clear sky conditions

William Wandji Nyamsi, Bella Espinar, Philippe Blanc, Lucien Wald
MINES ParisTech, Sophia Antipolis, France (william.wandji_nyamsi@mines-paristech.fr)

15:45–16:00: EMS2014-426

Solar Resource Assessment with Rotating Shadowband Irradiometers (RSI)

Norbert Geuder, **Birk Kraas**, Eckhard Lüpfer, Klaus Pottler
CSP Services, Cologne, Germany

16:00 Coffee Break & Poster Sessions

17:00–19:00**Chairperson(s):** Lucien Wald**17:00–17:15: EMS2014-160**

Performance Evaluation of Radiation Sensors for the Solar Energy Sector

Laurent Vuilleumier, Mathias Hauser, Christian Félix, Dominique Ruffieux, Bertrand Calpini
Federal Office of Meteorology and Climatology, MeteoSwiss, Payerne, Switzerland
(laurent.vuilleumier@meteoswiss.ch)**17:15–17:30: EMS2014-30**

Small-scale solar irradiance nowcasting with sky imager pictures

Thomas Schmidt, John Kalisch, Elke Lorenz
Energy Meteorology, Carl-von-Ossietzky University of Oldenburg, Oldenburg, Germany
(t.schmidt@uni-oldenburg.de)**17:30–17:45: EMS2014-34 (YSTA)**

Computation Of Cloud Motion For Solar Irradiance Prediction

Rogiros Tapakis, Alexandros Charalambides
Cyprus University of Technology, Department of Environmental Science and Technology, Cyprus
(rd.tapakis@edu.cut.ac.cy)**17:45–18:00: EMS2014-610**

A preliminary study on short-term predictability of solar surface irradiance over Italian Peninsula for photovoltaic energy production

Christian Lanconelli, Tony Christian Landi, Boyan Petkov, Angelo Lupi, Mauro Mazzola, Vito Vitale, Paolo Bonasoni, Maurizio Busetto, Paolo Cristofanelli, Piero Malguzzi, Andrea Buzzi, Monica Campanelli, Stefano Dietrich, Stefano Federico, Claudia Roberta Calidonna, Anna Maria Sempreviva
Institute of the Atmospheric Sciences and Climate, National Research Councils, Italy
(c.lanconelli@isac.cnr.it)**18:00–18:15: EMS2014-252**

Development of a neural network model of cloudiness forecasting for solar energy purposes in Greece

Andreas Kazantzidis, Athanassios Zagouras, Vasileios Salamalikis, Eferpi Nikitidou
Laboratory of Atmospheric Physics, Physics Department, University of Patras, Greece
(akaza@upatras.gr)**18:15–18:30: EMS2014-547**

Using cloud fraction derived from all-sky camera to improve beam solar irradiance forecasting by time-series modeling

Nicolas Nitche, Pierre-Julien Trombe, **Sylvain Cros**
Reuniwatt, Sainte-Clotilde, France
(sylvain.cros@reuniwatt.com)**18:30–18:45: EMS2014-316**

Short-term forecasting of cloud movement & irradiance changes using ground-based sky cameras

Samuel West, Saad Sayeef, Peter Coppin, **Jing Huang**
CSIRO Division of Marine and Atmospheric Research, Canberra, Australia**18:45–19:00: EMS2014-576**

Satellite-based solar irradiance and photovoltaic (PV) production forecasting on Reunion Tropical Island

Jordi Badosa, Martial Haeffelin, Elke Lorenz, Genevieve Seze, Natacha Kalecinski, Jean Mathorel
Laboratoire de Météorologie Dynamique, Palaiseau, France**ORAL PROGRAMME ASI13 continues Tuesday morning.**

Side Meetings & Workshops

SIM1 Remote Sensing in Climatology (public)

Convener: Richard Müller**Lecture Room:** Aquarius**14:00–19:00**

SIM6 Communications workshop for European weather services (by invitation only)

Convener: Michael Williams**Co-Convener:** Tanja Cegnár**Lecture Room:** Taurus**14:00–19:00**

European Conference on Applied Climatology (ECAC)

Understanding processes and climate change

UC1 Climate change detection, assessment of trends, variability and extremes

Convener: Albert M.G. Klein Tank

Co-Conveners: Martine Rebetez; Monika Lakatos

Poster Area: Meridian Left Front

Chairperson(s): Albert Klein Tank

Attendance Time: 16:00–17:00

LF1: EMS2014-251

Imprints of climate forcings in local and global temperature series

Jiří Mikšovský and Petr Pišoft

Charles University, Faculty of Mathematics and Physics, Dept. of Meteorology, Prague, Czech Republic
(jiri.miksovsky@mff.cuni.cz)

LF2: EMS2014-206

CMIP5 - performance and Climate Change assessment of maximum and minimum temperatures in Europe

Maria João Carvalho, Alfredo Rocha, Paulo Melo-Gonçalves

University of Aveiro, Dept. of Physics, Aveiro, Portugal
(mariajcarvalho@ua.pt)

LF3: EMS2014-322

An assessment of reliability in climate projections of CMIP5 models: A cloud variation perspective

Sun-Hee Shin, Myong-In Lee, Ok-Yeon Kim

APEC Climate Center, Busan, Republic of Korea
(ssh222@apcc21.org)

LF4: EMS2014-489

About the Clouds and Climate Change

Sabina Stefan, Cristinel Grigoras, Ioana Ungureanu, Simona Patrut

University of Bucharest, Faculty of Physics, Bucharest, Romania
(sabina_stefan@yahoo.com)

LF5: EMS2014-475

Observed changes in daily climate extremes of temperature and precipitation in the Carpathian Region

Mónika Lakatos, Zita Bihari, Tamás Szentimrey, Sándor Szalai

Hungarian Meteorological Service, Budapest, Hungary
(lakatos.m@met.hu)

LF6: EMS2014-188

Variability of precipitation in northern Serbia

Ivana Tosic, Miroslava Unkasevic, Ivana Hrnjak, Milivoj Gavrilov, Slobodan Marković, Tin Lukić

University of Belgrade-Faculty of Physics, Dept. for Meteorology, Belgrade, Serbia
(itosic@ff.bg.ac.rs)

LF7: EMS2014-80

Changes in indices of temperature extremes in Croatia, 1961-2010

Ksenija Zaninovic, Ksenija Cindric

Meteorological and Hydrological Service of Croatia, Climatological research and biometeorology, Zagreb,
(zaninovic@cirus.dhz.hr)

LF8: EMS2014-190

Monthly scale in spatial analyses of trends in heating and cooling demands in Croatia

Lidija Cvitan, Renata Sokol Jurković

Meteorological and hydrological service, Research and development division, Zagreb, Croatia
(cvitan@cirus.dhz.hr)

LF9: EMS2014-302

Analysis of the extraordinary 2011/2012 drought in Croatia

Ksenija Cindrić, Maja Telišman-Prtenjak, Ivana Herceg Bulić, Domagoj Mihajlović

Croatian Meteorological and Hydrological Service, Zagreb, Croatia
(cindric@cirus.dhz.hr)

LF10: EMS2014-630

Relationship of radar and hail parameters in the continental part of Croatia

Damir Pocakal

Meteorological and Hydrological Service of Croatia, Head of Analysis Section, Croatia
(dhmz-rc@vz.t-com.hr)

LF11: EMS2014-94

Climate change and variability in Slovenia from 1961 to 2011

Gregor Vertačnik, Mojca Dolinar, Renato Bertalančič

Slovenian Environment Agency, Ljubljana, Slovenia
(gregor.vertacnik@gov.si)

LF12: EMS2014-150

The growing season in Carpathian region during 1961-2010

Olesia Skrynyk, Yurii Nabyvanets, Valeriia Savchenko, Oleg Skrynyk

National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine
(skrynyk_olesya@rumbler.ru)

LF13: EMS2014-410

Analysis of extreme wind speed indices for Hungary using homogenized data series

Csilla Peline Nemeth, Judit Bartholy, Rita Pongrácz, Kornélia Radics

Geoinformation Service of HDF, Budapest, Hungary
(pelinenemeth.csilla@mhtehi.gov.hu)

LF14: EMS2014-431

Extreme high temperature events in the Czech Republic in the period 1961-2010: frequency, intensity and climatological characteristics.

Eva Holtánová, Anna Valeriánová, Lenka Chrová,

Miloslav Müller, Marek Kašpar
Czech Hydrometeorological Institute, Climatology, Prague, Czech Republic
(holtanova@chmi.cz)

LF15: EMS2014-442

Are the extreme cold events in the Czech Republic milder and less frequent and abnormally warm events in increase?

Lenka Crhová, Eva Holtanová, Anna Valeriánová, Martin Stříž

Czech Hydrometeorological Institute, Climatology, Prague, Czech Republic (lenka.crhova@chmi.cz)

LF16: EMS2014-448

Climatology of extreme precipitation events in the Czech Republic in the period 1961-2010

Anna Valeriánová, Lenka Crhová, Eva Holtanová, Miloslav Müller, Marek Kašpar, Martin Stříž,

Czech Hydrometeorological Institute, Climatology, Prague, Czech Republic (anna.valerianova@chmi.cz)

LF17: EMS2014-637

Changing amounts or spatio-temporal distribution? The study of precipitation trends and the occurrence of extreme precipitation events in the region of Southern Moravia (SE part of the Czech Republic) in the period 1961-2013

Marie Doleželová

Czech Hydrometeorological Institute, Regional Office Brno

LF18: EMS2014-471

Climatology of low-level temperature inversions at the Prague-Libuš aerological station

Jan Stryhal, Radan Huth, Ivan Sládek

Department of Physical Geography and Geocology, Faculty of Science, Charles University, Prague, Czech Republic

POSTER PROGRAMME UC1 continues on Tuesday

Numerical Weather Prediction

NWP2 Numerical aspects and physical parametrization integration in NWP models

Convener: Petra Smolikova

Co-Convener: Daniel Reinert

Poster Area: Meridian Left Back

Chairperson(s): Daniel Reinert

Attendance Time: 16:00–17:00

LB19: EMS2014-300

Sensitivity of high resolution simulations over central Greece to WRF parameterisations

Ioannis Tegoulis, Ioannis Pytharoulis, Stylianos Kotsopoulos, Dimitrios Bampzelis, Stergios Kartsios, Theodore Karacostas

Department of Meteorology and Climatology, School of Geology, Aristotle University of Thessaloniki, Greece (tegoulia@auth.gr)

LB20: EMS2014-384

The impact of Sea-Surface Temperatures on Numerical Weather Predictions

Ioannis Pytharoulis, Ioannis Tegoulis, Stelios Kotsopoulos, Theodore Karacostas

Laboratory of Meteorology and Climatology, School of Geology, Faculty of Thessaloniki, Greece (pyth@geo.auth.gr)

LB21: EMS2014-657

Parameterization of cumulus convective clouds in large scale models based on dynamically balanced LES datasets

Yefim Kogan

The University of Oklahoma, Meteorology, United States(ykogan@ou.edu)

END OF POSTER PROGRAMME NWP2

NWP3 Data assimilation and use of observations in meteorology and oceanography

Convener: Alexander Cress

Co-Convener: Sarah Dance

Poster Area: Meridian Left Back

Chairperson(s): Alexander Cress

Attendance Time: 16:00–17:00

LB22: EMS2014-470

Joint development and operations of Numerical Weather Prediction (Norway and Sweden)

Solfrid Agersten, Morten Kølitzow, Bo Strandberg

Norwegian Meteorological Institute, Oslo, Norway (solfrid.agersten@met.no)

LB23: EMS2014-117

Cloudiness estimation from satellite and ground observations

Joaquín Alonso, Samuel Quesada-Ruiz, Mercedes Martínez-Durbán, Joaquín Tovar-Pescador, Francisco J. Battles, David Pozo-Vázquez

Department of Chemistry and Physics, University of Almería, 04120, Almería, Spain., Ciesol, Joint Centre University of Almería-CIEMAT, 04120, Almería, Spain

LB24: EMS2014-269

Adjoint-based observation impact and optimization of error covariances in the Korea Meteorological Administration Unified Model-4DVAR system

Sung-Min Kim, Hyun Mee Kim, Sang-Won Joo, Yoonjae Kim, Dongjoon Kim, Eun-Jung Kim

Yonsei, Atmospheric Science, Seoul, Republic of Korea (mdrizzle@yonsei.ac.kr; khm@yonsei.ac.kr)

LB25: EMS2014-433

Upgrading of the solar irradiance measuring network in Croatia in frame of the EU-IPA project

ENHEMS-Buildings

Josipa Kuzmić, Davor Tomšić, Alica Bajić, Igor Horvat,

Zvonimir Jakopović, and Eduard Špoljar
Croatian Meteorological and Hydrological Service, Zagreb, Croatia

END OF POSTER PROGRAMME NWP3

The Atmospheric System and its Interactions

ASI11 Meteorological processes, atmospheric composition and pollution

Convener: Sylvain M. Joffre

Co-Conveners: Martin Piringer; Charles Chemel; Martijn Schaap; Alexander Baklanov

Poster Area: Meridian Right Front

Chairperson(s): Martin Piringer

Attendance Time: 16:00–17:00

RF15: EMS2014-4

High resolution dynamical-climate modeling of the upper troposphere and lower stratosphere region over Europe: GEM-AC simulations for current climate with and without aviation emissions.

Magdalena Porebska, Joanna Struzewska, Jacek W. Kaminski

Warsaw University of Technology, Environmental Engineering, Warsaw, Poland
(magdalena.porebska@is.pw.edu.pl)

RF16: EMS2014-361

The Ambient Air Quality Change during Typhoon Period in the Korean Peninsula

Suk-Hee Ahn, Seung-Wook Lee, Ki-Jun Park, Jeoung-Yun Kim, Baek-Jo Kim

Policy research division, National Institute of Meteorological Research (NIMR), Republic of Korea
(ahnsh@korea.kr)

RF17: EMS2014-372

Traffic Emissions And Solar Radiation Effect On Formation Of The Ozone

Deniz Hazel Diren, Hüseyin Toros

Istanbul Technical University, Faculty of Aeronautics and Astronautics, Department of Meteorological Engineering, Istanbul, Turkey, (toros@itu.edu.tr)

RF18: EMS2014-394

Assessment of Air Pollution Distribution in Kirikkale with Dispersion Model

Ayşenur Bozer, Gizem Nur Kandilci, Emre Korkmaz, Hüseyin Toros

Istanbul Technical University, Faculty of Aeronautics and Astronautics, Department of Meteorology, Istanbul, Turkey (aysenur_bozer@hotmail.com)

RF19: EMS2014-406

Evaluation of Dispersion Model: A case study of Air Pollution Dispersion in Eskişehir

Gizem Nur Kandilci, Ayşenur Bozer, Emre Korkmaz, Hüseyin Toros

Istanbul Technical University, Faculty of Aeronautics and Astronautics, Department of Meteorology, Istanbul, Turkey (gkandilci@hotmail.com)

RF20: EMS2014-347

The Effects of Meteorological Parameters on Air Pollution in a Megacity, Istanbul

Beytiye Derya Aydin

Istanbul Technical University, Graduate School of Science Engineering and Technology, Atmospheric Science, Istanbul, Turkey (aydiinderya@gmail.com)

RF21: EMS2014-582

Modeling of birch pollen concentrations using Enviro-Hirlam

Alexander Kurganskiy, Alexander Mahura, Roman Nuterman, Alix Rasmussen, Alexander Baklanov, Sergei Smyshlyayev, Eigil Kaas

Russian State Hydrometeorological University (RSHU), Saint-Petersburg, Russian Federation (rshu@rshu.ru), Niels Bohr Institute of University of Copenhagen (NBI UoC), Copenhagen, Denmark (rf-reception@nbi.ku.dk)

RF22: EMS2014-151

Modelling of Cs-137 accidental release after Chernobyl over Ukraine

Oleg Skrynyk, Yurii Hrytsyuk

Ukrainian Hydrometeorological Institute, Physics of Atmosphere, Kyiv, Ukraine (skrynyk@univ.kiev.ua)

RF23: EMS2014-54

Differences among ozone lamina characteristics expressed in partial pressure and mixing ratio

Peter Krizan, Michal Kozuibeck

Institute of Atmospheric Physics, Prague, Czech Republic (krizan@ufa.cas.cz)

RF25: EMS2014-222

Trend Analysis in the MODIS Aerosol Optical Depth over Turkey

Yasar Burak Oztaner, Burcu Guney, Ceyhan Kahya

Istanbul Technical University, Eurasia Institute of Earth Science, Department of Climate and Marine Science, Istanbul, Turkey (oztaner@itu.edu.tr)

RF26: EMS2014-86

UV and Global solar irradiance measurements and analysis during the Marsaxlokk (Malta) campaign

Julia Bilbao, Roberto Román, Charles Yousif, David Mateos, Argimiro de Miguel

Valladolid University, Science Faculty, Valladolid, Spain (juliab@fa1.uva.es)

RF27: EMS2014-16

Characterization of air flow patterns at the Atmospheric Station KÁešín u Pacova

Kateřina Hořková, Pavel Sedlák, Alice Dvorská, and Pavel Prošek

Department of Geography, Faculty of Science, Masaryk University, Brno, Czech Republic

END OF POSTER PROGRAMME ASI11

ASI13 Energy Meteorology

Convener: Sven-Erik Gryning

Co-Conveners: Ekaterina Batchvarova; Marion Schroedter-Homscheidt; Lucien Wald

Poster Area: Meridian Right Back

Chairperson(s): Sven-Erik Gryning

Attendance Time: 16:00–17:00

RB2: EMS2014-148

How to optimize the overproduction of photovoltaic electricity into the grid with the utilization of ICT infrastructure - The Orpheus project
Ingrid Weiss, **Marion Schroedter-Homscheidt** and the Orpheus Consortium Team
DLR, German Remote Sensing Data Center, Wessling, Germany (marion.schroedter-homscheidt@dlr.de)

RB3: EMS2014-484

Solar radiation forecast verification and post processing.
Tomislav Kovačić, Igor Horvat, Mario Hrastinski, Kristian Horvath, Stjepan Ivatek Šahdan, and Antonio Stanešić
Meteorological and Hydrological Service, Zagreb, Croatia

RB4: EMS2014-312

Solar irradiance modelling over Belgium using Regional models within the frame of a day-ahead photovoltaic production forecasting system
Julien Beaumet, Sébastien Doutreloup, Xavier Fettweis, Aline Hermans, Michel Ericum
Laboratoire de Climatologie et Topoclimatologie, Université de Liège, Liège, Belgium
(julien.beaumet@ulg.ac.be)

RB5: EMS2014-520

Combining WRF wind estimates and MSG CMV for improving short term solar radiation forecast reliability
Samuel Quesada-Ruiz, Clara Arbizu-Barrena, Alvaro Linares-Rodriguez, Javier Rodriguez-Benitez, Jose Antonio Ruiz-Arias, David Pozo-Vazquez, Francisco Javier Batlles, Joaquín Tovar-Pescador
Dept of Physics, Univ. of Jaén, Spain

RB6: EMS2014-441

Yearly changes in solar radiation over New Caledonia and relations with changing atmospheric properties
Philippe Blanc, **Lucien Wald**
MINES ParisTech, Sophia Antipolis cedex, France
(lucien.wald@mines-paristech.fr)

RB7: EMS2014-556

Advantages and drawbacks of a statistical clear-sky model: a case study with photovoltaic power production data
Sylvain Cros, Olivier Liandrat, Nicolas Schmutz
Reuniwatt, Sainte-Clotilde, France
(sylvain.cros@reuniwatt.com)

RB8: EMS2014-249

Analysis of results from the COST ES1002 DNI inter-comparison based on cloud detection from all-sky cameras
Maria Christina Kotti, Laurent Vuilleumier, **Andreas Kazantzidis**, Mathias Hauser, Panagotis Tzoumanikas
Laboratory of Atmospheric Physics, Department of Physics, University of Patras, Patras, Greece
(akaza@upatras.gr)

RB9: EMS2014-45

Wind energy potential in North-Western of Poland
Monika Lisowska, Elwira Żmudzka
University of Warsaw, Faculty of Geography and Regional Studies, Department of Climatology, Warsaw, Poland (mlisowska@uw.edu.pl)

RB10: EMS2014-304

Offshore wind potential over the Iberian Peninsula simulated by the COSMO-CLM regional model
Carolina Fernandes, Margarida L. R. Liberato, **João A. Santos**, Joaquim G. Pinto
Centre for the Research and Technology of Agro-Environmental and Biological Sciences, Universidade de Trás-os-Montes e Alto Douro, Vila Real, jsantos@utad.pt

POSTER PROGRAMME ASI13 continues on Tuesday



Public Great Debate at Charles University

07 October 2014, 18:00

Climate Change: reality without myths

Panel discussion on climate change issues
and consequences – how to cope with them

Panelists:

D. Jacob (Head of Climate Services Centre, Hamburg)

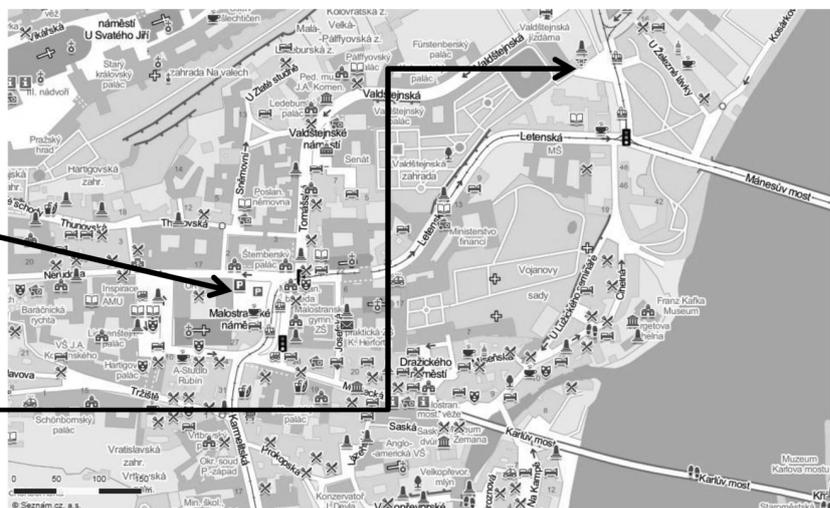
R. Benestad (MET Norway, RealClimate)

Venue:

House for Professed, Great Hall
(Faculty of Mathematics and
Physics, Charles University),
Malostranské náměstí 25, Praha 1
– Mala Strana

How to get there:

from Clarion hotel use
underground line B, at Mustek
change to line A for two stops to
Malostranská. Walking distance (10
min) or by tram No. 12, 20, 22 (one
stop to Malostranske namesti)



Tuesday, 07 October 2014						
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius
08:30–10:30	SE2: Host topical session: CORDEX: From climate science to climate services <i>until 11:00</i>	ASI13: Energy Meteorology	NWP4: Probabilistic and ensemble forecasting at short and medium-range	UC1: Climate change detection <i>until 10:00</i> UC5: Synoptic climatology <i>10:00–10:30</i>	CE1: Media & Communication with Workshop for European weather services	
10:30–11:30	Poster Session & Coffee Break Foyer and Room Meridian <i>Poster authors in attendance time for the following sessions:</i> ECAC programme group: UC1 (LF19 - LF31), UC5 (LB1 - LB9), SE2 (LB10 + LB11), SE4 (LB12) ASI programme group: ASI13 (RB11 - RB19) CE programme group: CE1 (RB1) NWP programme group: NWP4 (LB26 - LB30)					
11:30–13:00	SE4: European collaborative projects towards climate services <i>12:00–13:00</i>	ASI13	NWP4	UC5	CE1	SIM2: EUMETNET climate expert team meeting
13:00	Lunch Break					
14:00–15:00	Award Ceremonies: <i>Young Scientist Travel Awards</i> <i>Outstanding Poster Award EMS & ECAM 2013</i> <i>EMS Young Scientist Award</i> <i>EMS Media Awards</i> EMS Silver Medal: Laudatio and Silver Medal Lecture Detailed programme: see page 11				SIM6: Workshop for European weather services	SIM2
15:00	Coffee Break					
15:30–17:30	SE4	ASI13	NWP4		SIM6	SIM5: PSC: EMS & ECAM 2015 (by invitation only)
17:40	Horizon2020 Information session Room Zenit <i>17:40–18:40</i>		Public debate on climate change at Charles University <i>18:00</i> , for details: see page 32			SIM11: RCC Network coordination meeting
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius

In the detailed daily programme (on pages 34 to 44) the related ECAC, ASI, CE and NWP sessions are listed in the following order: UC1, UC5, SE2, SE4, CE1, NWP4, ASI13.

Special Events

SPS2 Award Ceremony

Lecture Room: Zenit

14:00–15:00

The following awards will be presented:

- EMS Young Scientist Travel Awards
- Outstanding Poster Award EMS&ECAM 2013
- EMS Young Scientist Award
- EMS Media Awards
- Harry Otten Prize – Announcement 2015
- EMS Silver Medal

For details of the programme see page 11.

SPS6 Horizon2020 information session (plenary)

Lecture Room: Zenit

17:40–18:40

Presentation on Horizon2020

Andrea Tilche

DG Research and Innovation

Head of Unit, Climate Action and Earth Observation

European Conference on Applied Climatology (ECAC)

Understanding processes and climate change

UC1 Climate change detection, assessment of trends, variability and extremes

Convener: Albert M.G. Klein Tank

Co-Conveners: Martine Rebetez; Monika Lakatos

Lecture Room: Tycho

08:30–10:30

Chairperson(s): Albert Klein Tank

08:30–08:45: EMS2014-380

Assessment of the wind speed variability over the Iberian Peninsula using a high-resolution climatic database

Raquel Lorente-Plazas, Juan Pedro Montávez, Sonia Jerez, Juan José Gómez-Navarro, Pedro Jiménez-Guerrero, Pedro Ángel Jiménez Murcia, Physics, Murcia, Spain (lorente.plazas@gmail.com)

08:45–09:00: EMS2014-465

Assessment of wet/dry conditions in Iberia using WASP-Index

Cristina Andrade, Margarida Belo-Pereira Polytechnic Institute of Tomar, Mathematics and Physics Department, Tomar, Portugal (c.andrade@ipt.pt), Centre for the Research and Technology of Agro-Environmental and Biological Sciences, University of Trás-os-Montes e Alto Douro, Vila Real, Portugal

09:00–09:15: EMS2014-478

The exceptional snow accumulation of winter 2013-14 and the possible response of small glacial bodies: the case study of the Julian Alps (southeastern alpine chain)

Renato R. Colucci, Stefano Micheletti, Roberto Medeossi, Daniele Moro, Marcellino Salvador, Livio Stefanuto Department of Earth System Sciences and Environmental Technologies, ISMAR-CNR, Trieste, Italy (r.colucci@ts.ismar.cnr.it), UMFVG, Meteorological Union of F.V.G., Italy

09:15–09:30: EMS2014-635

Observed impact of temperature increase on the altitude of snowfall and snow pack in the Swiss Alps

Martine Rebetez, Gaelle Serquet, Geoffrey Klein, Christoph Marty WSL Swiss Federal Research Institute, Neuchatel, Switzerland

09:30–09:45: EMS2014-70

Monthly Trend Analysis of Snowfall/Precipitation Day Around Southeastern Anatolia Project (GAP) in Turkey

Evren Özgür, Kasim Koçak Istanbul Technical University, Faculty of Aeronautics and Astronautics, Department of Meteorology, Maslak, Istanbul, Turkey (ozgurev@itu.edu.tr; kkocak@itu.edu.tr)

09:45–10:00: EMS2014-91

Concurrency and climate change signal in Scottish flooding

Andrew Harding, Adam Butler, Douglas Bertram, Nigel Goody, Nikki Baggaley, Simon Tett ClimateXChange, University of Edinburgh, Edinburgh, United Kingdom (andrew.harding@ed.ac.uk)

END OF ORAL PROGRAMME UC1

UC5 Synoptic climatology

Convener: Radan Huth
Co-Convener: Rasmus Benestad
Lecture Room: Tycho

08:30–10:30

Chairperson(s): Rasmus Benestad

10:00–10:15: EMS2014-211

Local climate extremes and their linkage to large-scale atmospheric features

Arne Spekat, Wolfgang Enke
 Climate and Environment Consulting Potsdam GmbH,
 Potsdam, Germany (arne.spekat@cec-potsdam.de)

10:15–10:30: EMS2014-336

Large local temperature changes versus passages of atmospheric fronts: a case study for Prague

Vladimír Piskala, **Radan Huth**
 Charles University, Faculty of Science, Dept. of
 Physical Geography and Geoecology, Praha 2, Czech
 Republic (huth@ufa.cas.cz), Institute of Atmospheric
 Physics, Praha, Czech Republic

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): Radan Huth

11:30–12:00: EMS2014-440

Factors influencing European wind storm occurrence on different time scales - from synoptic to centennial perspectives (solicited)

Gregor C. Leckebusch, Daniel J. Befort, Uwe Ulbrich
 University of Birmingham, School of Geography, Earth
 and Environmental Sciences, Birmingham, United
 Kingdom (g.c.leckebusch@bham.ac.uk)

12:00–12:15: EMS2014-73

Satellite Based Climatology of (Sub-) Tropical Cyclones in Europe

Alois M. Holzer, Pieter Groenemeijer
 ESSL, European Severe Storms Laboratory, Wiener
 Neustadt, Austria (alois.holzer@essl.org)

12:15–12:30: EMS2014-560

The relationship between atmospheric circulation and air temperature at different isobaric levels over Europe
Agnieszka Wypych, **Zbigniew Ustrnul**, Sławomir Szot,
 Marek Kosowski, Danuta Czekierda
 Jagiellonian University, Krakow, Poland

12:30–12:45: EMS2014-659

Variability of Atmospheric Circulation Patterns associated with major inflows to the Baltic Sea
Piia Post, Andreas Lehmann
 Institute of Physics, University of Tartu, Tartu, Estonia
 (piia.post@ut.ee)

12:45–13:00: EMS2014-382

Synoptic patterns and extreme wave heights in Eastern Mediterranean

Christina Anagnostopoulou, Panagiota Galiatsatou,
 Effie Rousi, Panagiotis Prinos, Gerassimos
 Athanassoulis, Konstantia Tolika
 Aristotle University of Thessaloniki, Dept. of
 Meteorology and Climatology, Thessaloniki, Greece
 (chanag@geo.auth.gr)

END OF ORAL PROGRAMME UC5

Research and services for socio-economic sectors

SE2 Host topical session: From climate science to climate services: CORDEX

Convener: Tomas Halenka
Co-Convener: Daniela Jacob
Lecture Room: Zenit

08:30–11:00

Chairperson(s): Daniela Jacob

08:30–09:00: EMS2014-627

The Euro-CORDEX initiative: A new generation of regional climate scenarios for Europe (solicited)

Andreas Gobiet, Daniela Jacob, Claas Teichmann,
 Heimo Truhetz, Andreas Prein
 University of Graz, Wegener Center for Climate and
 Global Change, Graz, Austria
 (andreas.gobiet@uni-graz.at)

09:00–09:15: EMS2014-592

On the comparison of EuroCORDEX and ENSEMBLES RT3 ensembles

Tomas Halenka, Michal Belda, Zuzana Klukova,
 Jaroslava Kalvova, Petr Skalak
 Charles University in Prague, Prague, Czech Republic
 (tomas.halenka@mff.cuni.cz)

09:15–09:30: EMS2014-513

Evaluating RegCM4 surface climatology over the EURO-CORDEX domain

Ivan Güttler, Čedo Branković, Lidija Srnc
 Meteorological and Hydrological Service, Department
 for Climatological Research and Applied Climatology,
 Zagreb, Croatia (ivan.guettler@cirus.dhz.hr)

09:30–09:45: EMS2014-178

Field Significance of Performance Measures in the Context of Regional Climate Model Verification

Martin Ivanov, Kirsten Warrach-Sagi, Volker
 Wulfmeyer
 ETH Zürich, Zürich, Switzerland
 (martin.ivanov@env.ethz.ch), Water and Earth System
 Science Competence Cluster (WESS), University of
 Tübingen, Tübingen, Germany

09:45–10:00: EMS2014-624

On the urban land-surface impact on climate in higher resolution over Central Europe
Peter Huszar, Tomas Halenka, Michal Belda, Katerina Zemankova, Michal Zak
 Charles University in Prague, Prague, Czech Republic
 (tomas.halenka@mff.cuni.cz)

10:00–10:15: EMS2014-643

Climate change signal in an ensemble of bias-corrected regional climate scenarios for Europe
Renate Wilcke, Grigory Nikulin, Lars Bärring, Erik Kjellström
 Rossby Centre, Swedish Meteorological and Hydrological Institute, Norrköping, Sweden,
 rena.wilcke@smhi.se

10:15–10:30: EMS2014-596

Climate classification for Euro-CORDEX simulations integrated assessment
Michal Belda, Tomas Halenka, Jaroslava Kalvova, Eva Holtanova
 Charles University in Prague, Prague, Czech Republic
 (tomas.halenka@mff.cuni.cz)

10:30–11:00: EMS2014-591

High-resolution climate change simulations within EURO-CORDEX: Projected changes in the RCP2.6 scenario simulations in comparison to RCP4.5 and RCP8.5 scenario simulations (solicited)
Claas Teichmann, Arne Kriegsmann, Bastian Eggert, Andreas Haensler, Nils Hempelmann, Lennart Marien, Juliane Petersen, Susanne Pfeifer, Swantje Preuschmann, Diana Rechid, Kevin Sieck, Daniela Jacob
 Max-Planck-Institut für Meteorologie, The Atmosphere in the Earth System, Hamburg, Germany
 (claas.teichmann@zmaw.de), Climate Service Center, Helmholtz-Zentrum Geesthacht, Hamburg, Germany

END OF ORAL PROGRAMME SE2

SE4 European collaborative projects towards climate services

Convener: Carlo Buontempo

Co-Conveners: Chris Hewitt; Francisco J. Doblas-Reyes

Lecture Room: Zenit

12:00–13:00

Chairperson(s): Carlo Buontempo

12:00–12:15: EMS2014-207

On the use and potential use of seasonal to inter-annual climate predictions for decision-making in Europe
Marta Bruno Soares, Suraje Dessai and the EUPORIAS WP12 Team
 Sustainability Research Institute, School of Earth and Environment, University of Leeds, Leeds, United Kingdom, Centre for Climate Change Economics and Policy, School of Earth and Environment, University of Leeds, Leeds, United Kingdom

12:15–12:30: EMS2014-490

Towards custom made seasonal forecasting
 Irina Mahlstein, Christoph Spirig, **Mark Liniger**
 Federal Office of Meteorology and Climatology MeteoSwiss, Climate Division, Zuerich, Switzerland
 (mark.liniger@meteoswiss.ch)

12:30–12:45: EMS2014-265

Providing and facilitating climate model data access in Europe: IS-ENES and CLIPC initiatives
Christian Pagé, Sylvie Joussaume, Martin Juckes, Wim Som de Cerff, Maarten Plieger, Lars Bärring, Michael Kolax, Ronald Hutjes, Fokke de Jong, Edoardo Bucchignani, Natalia Tatarinova, Antonio Cofino, Ernst de Vreede
 Sciences de l'Univers au CERFACS, CERFACS/CNRS, URA1875, Toulouse, France
 (christian.page@cerfacs.fr)

12:45–13:00: EMS2014-234

A new approach in climate modelling strategies to provide climate information based on users needs: the CLIM-RUN experience
Alessandro Dell'Aquila, Samuel Somot, Pierre Nabat, Clotilde Dubois, Antoinette Alias, Erika Coppola
 ENEA, UTMEA-CLIM, UTMEA-CLIM, Rome, Italy
 (alessandro.dellaquila@enea.it)

13:00 Lunch Break**15:30–17:30**

Chairperson(s): Carlo Buontempo

15:30–15:45: EMS2014-64

Investigating seasonal predictability of winter transport impacts in the UK
 Erika J. Palin, Adam A. Scaife, Alberto Arribas, **Anca Brookshaw**
 Met Office Hadley Centre, FitzRoy Road, Exeter EX1 3PB, UK (erika.palin@metoffice.gov.uk)

15:45–16:00: EMS2014-589

EUPORIAS climate service prototype: drought early warning in Ethiopia
Sandro Calmanti and the LEAP-EUPORIAS Team
 ENEA, UTMEA-CLIM, Rome, Italy
 (sandro.calmanti@enea.it)

16:00–16:15: EMS2014-633

Developing a prototype climate service for land management: the EUPORIAS land management tool
Pete Falloon, Felicity Liggins, Carlo Buontempo, John Wilding, John Varley, Wim Som de Cerff, Ernst de Vreede, Marta Bruno Soares, Rita Cardoso
 Met Office Hadley Centre, Fitzroy Road, Exeter, EX1 3PB UK

16:15–16:30: EMS2014-205

A climate service prototype for water resource management at seasonal scales
Jean-Pierre Céron, Anne-Lise Beaulant, Christian Viel
 Meteo-France, Direction de la Climatologie, 42 avenue G. Coriolis, Toulouse Cedex 1, France
 (jean-pierre.ceron@meteo.fr)

16:30–16:45: EMS2014-59

Impact of land surface initial conditions on sub-seasonal to seasonal prediction of mid-latitude summer temperature

Constantin Ardilouze, Bertrand Decharme, Sophie Tyteca, Hervé Douville, Michel Déqué
 CNRM-GAME, Météo-France and CNRS, Toulouse France (constantin.ardilouze@meteo.fr)

16:45–17:00: EMS2014-544

EURO4M contribution to climate services development

Albert M.G. Klein Tank
 Royal Netherlands Meteorological Institute, De Bilt, Netherlands (albert.klein.tank@knmi.nl)

17:00–17:15: EMS2014-310

Web processing services (WPS) for Climate Data as possible tools of inter-project collaboration

Nils Hempelmann, Carsten Ehbrecht, Stephan Kindermann
 Climate Service Center (CSC), Hamburg, Germany, (nils.hempelmann@hzg.de)

17:15–17:30: EMS2014-460

Exploring conditions for multi-annual prediction with EC-Earth

Ralf Döscher, Klaus Wyser, Mihaela Caian, Torben Koenigk
 Swedish Meteorological and Hydrological Institute (SMHI), Sweden (ralf.doescher@smhi.se)

END OF ORAL PROGRAMME SE4

Communication and Education

CE1 Media and Communication

Convener: Tanja Cegnar

Lecture Room: Taurus

08:30–10:30

Chairperson(s): T. Cegnar

08:30–08:45: Show cases of best practice in TV weather forecasts

08:45–09:00: EMS2014-329

Presenting the weather forecasts in TV- a worldwide survey

Panagiotis Giannopoulos, Zoran Vakula
 Hellenic Nat. Met. Service, Greece (pgiannop1@yahoo.com)

09:00–09:15: EMS2014-662

Active Role of Czech Television Viewers in Programs about the Weather (solicited)

Tatana Mikova
 CESKA TELEVIZE, Czech Republic

09:15–09:30: EMS2014-648

Experiences with tools to improve the visualization of the current weather for presenters (solicited)

Enric Agud Pique
 Radio and TV of Catalunya, Barcelona (eagud.q@tv3.cat)

09:30–09:45: EMS2014-407

Weather forecast on TV broadcast in Slovakia.

Miriam Jarosova
 Slovakia (miriamjaros@gmail.com)

09:45–10:00: EMS2014-666

New media vs. effectiveness analysis of informing the public against extraordinary hazards

Lukasz Legutko
 Institute of Meteorology and Water Management Warsaw, Poland

10:00–10:30: EMS2014-661

Five years of change in television weather presenting (solicited)

Jay Trobec
 KELO-TV, Sioux Falls, South Dakota, USA

10:30 Coffee Break & Poster Sessions
11:30–13:00

Chairperson(s): T. Cegnar

11:30–12:00

Show cases and examples of best practice in outreach and communications and journalistic publications. The related awards will be presented in the Awards Session on Tuesday, 14:00. For details see page 11.

12:00–12:30: EMS2014-669

The IPCC AR5 SPM decrypted -> clear-text (solicited)

Rasmus Benestad
 Norwegian Meteorological Institute (rasmus.benestad@met.no)

12:30–12:45:

Bringing science closer to policymakers
Tanja Cegnar

12:45–13:00:

Media and NMS Communication during floods in Czech Republic 2013
 J. Danhelka, M. Sandev

END OF ORAL PROGRAMME CE1

Numerical Weather Prediction

NWP4 Probabilistic and ensemble forecasting at short and medium-range

Convener: Andrea Montani

Co-Conveners: Jan Barkmeijer; Fernando Prates

Lecture Room: Leo + Virgo

08:30–10:30

Chairperson(s): Montani, A.

08:30–09:00: EMS2014-235

Ensemble forecasts for Sochi-2014 Olympics: development of COSMO-based ensemble systems and their application (solicited)

Elena Astakhova, Andrea Montani, Dmitry Alferov, Dmitry Kiktev, Gdaly Rivin, Inna Rozinkina, Chiara Marsigli, Tiziana Paccagnella
Hydrometcenter of Russia, Moscow, Russian Federation (elena_ast_hmc@mail.ru)

09:00–09:15: EMS2014-480

COSMO-CZ-EPS verification and uncertainty assessment

Petr Zacharov, Daniela Řezáčová, Zbyněk Sokol
Institute of Atmospheric Physics ASCR, Dept. of Meteorology, Prague, Czech Republic (petas@ufa.cas.cz)

09:15–09:30: EMS2014-53

Î³-SREPS: AEMET New Mesoscale Ensemble Prediction System

Carlos Santos, Alfons Callado, Pau Escriba, Jose A. Garcia-Moya, Bartolome Orfila
Agencia Estatal de Meteorologia, AEMET, Spain

09:30–09:45: EMS2014-346

Bayesian quantitative precipitation forecasting

Sabrina Bentzien, Petra Friederichs
University of Bonn, Meteorological Institute, Bonn, Germany (bentzien@uni-bonn.de)

09:45–10:00: EMS2014-63

Gale Warning for Swiss Lakes and Regional Aerodromes based on Ensemble Genetic Programming
Lysiane Mayoraz, Jacques Ambühl, Roman Voisard, Christophe Voisard, Manuela Züger, Hans Romang
MeteoSwiss, Zurich, Switzerland

10:00–10:15: EMS2014-473

Multi-model ensemble hydrometeorological modelling of the 4 November 2011 Genoa, Italy flash flood in the framework of the DRIHM project

Alan Hally and the DRIHM Team
CNRM, Météo-France, Toulouse, France (alan.hally@meteo.fr)

10:15–10:30:

Short poster introductions (3 minutes per poster)

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): Arpagaus, M.

11:30–12:00: EMS2014-243

Optimizing the analog ensemble for probabilistic wind power forecasting at four on and offshore wind farms (solicited)

Constantin Junk, Luca Delle Monache, Stefano Alessandrini, Lueder von Bremen, Stephan Späth
ForWind - Center for Wind Energy Research, University of Oldenburg, Oldenburg, Germany (constantin.junk@forwind.de)

12:00–12:15: EMS2014-81

Extending Extended Logistic Regression: Extended vs. Separate vs. Ordered vs. Censored

Jakob W. Messner, Georg J. Mayr, Daniel S. Wilks, Achim Zeileis
Institute of Meteorology and Geophysics, University Innsbruck, Innsbruck, Austria (jakob.messner@uibk.ac.at), Department of Statistics, University Innsbruck, Innsbruck, Austria

12:15–12:30: EMS2014-68

Impact of high-resolution boundary conditions on the quality of COSMO-LEPS forecasts

Andrea Montani, Chiara Marsigli, Tiziana Paccagnella
ARPA-SIMC, HydroMeteoClimate Service of Emilia-Romagna Region, Bologna, Italy (amontani@arpa.emr.it)

12:30–12:45: EMS2014-343

SRNWP-PEPS: An operational regional multi-model ensemble in Europe

Sebastian Trepte, Michael Denhard, Bernhard Reichert
Deutscher Wetterdienst, Offenbach, Germany (sebastian.trepte@dwd.de)

12:45–13:00: EMS2014-306

A Hybrid, NWP-Analog Ensemble

Luca Delle Monache, F. Anthony Eckel
National Center for Atmospheric Research, Research Application Laboratory, Boulder, Colorado, United States (lucadm@ucar.edu)

13:00 Lunch Break

15:30–16:00

Chairperson(s): Santos, C.

15:30–15:45: EMS2014-305

Stochastic ice phase microphysics in Harmonie EPS and verification of snow forecasts

Sibbo van der Veen
KNMI, Weather Service / Research and Development, De Bilt, Netherlands (veenvds@knmi.nl)

15:45–16:00: EMS2014-119

Impact of the back scatter kinetic energy on the perturbation of ensemble members for strong convective event

Jakub Guzikowski
Institute of Geophysics PAS, Atmospheric Physics, Warsaw, Poland (jguzikowski@igf.edu.pl)

END OF ORAL PROGRAMME NWP4

The Atmospheric System and its Interactions

ASI13 Energy Meteorology

Convener: Sven-Erik Gryning
Co-Conveners: Ekaterina Batchvarova; Marion Schroedter-Homscheidt; Lucien Wald
Lecture Room: Nadir

08:30–10:30

Chairperson(s): Lucien Wald

08:30–08:45: EMS2014-147

ECMWF's global and direct normal irradiance forecasts - an accuracy assessment taking the new MACC aerosol forecasts into account

Marion Schroedter-Homscheidt, Niels Killius, Gerhard Gesell, Angela Benedetti
 DLR, German Remote Sensing Data Center, Wessling, Germany (marion.schroedter-homscheidt@dlr.de)

08:45–09:00: EMS2014-415

Solar PV power forecasting in Australia using GFS and ECMWF

Henrik Aalborg Nielsen, Torben Skov Nielsen, Hans-Peter (Igor) Waldl, Peter Coppin
 ENFOR A/S, Denmark

09:00–09:15: EMS2014-340

Forecasting the variability of solar irradiance using numerical weather prediction

Jing Huang
 CSIRO Marine and Atmospheric Research, Canberra ACT, Australia (jing.r.huang@csiro.au)

09:15–09:30: EMS2014-429

Statistical Analysis of NWP Prediction Errors and Their Consequences for Short-Time Photovoltaic Energy Forecasting; A Semi-Parametric Way to Prediction Quality Improvements

Marek Brabec, Kryštof Eben, Ondřej Konár, Pavel Krč, Emil Pelikán, and Pavel Juruš
 Institute of Computer Science, Prague, Czech Republic (mbrabec@cs.cas.cz)

09:30–09:45: EMS2014-376

Ensemble Forecasts and Predictability: A look at COSMO-DE-EPS performance for global radiation

Zied Ben Bouallègue, Tobias Heppelmann
 Deutscher Wetterdienst, Offenbach, Germany (zied.ben-bouallegue@dwd.de)

09:45–10:00: EMS2014-8

Application of meteorological data for state estimation of an electrical low voltage grid with a high amount of photovoltaic systems

Holger Ruf, Marion Schroedter-Homscheidt, Florian Meier, Gerd Heilscher
 Ulm University of Applied Science, Ulm, Germany (ruf@hs-ulm.de), University of Agder, Grimstad, Norway

10:00–10:15: EMS2014-32

Monitoring the performance of solar energy plants from satellite remote sensing of air temperature and ground solar irradiance through an accurate modelling of the effects of aerosol optical properties

Marco Morelli, Andrea Masini, Sebastiano B. Serpico, Gabriele Moser, Marco A. C. Potenza
 University of Milano, Department of Physics, Milano, Italy (marco.morelli1@unimi.it)

10:15–10:30: EMS2014-564

Designing a renewable energy system for the Iberian Peninsula

Juan Pedro Montavez, Jesús Ruiz, Sonia Jerez, Antonio Sarsa
 Universidad de Murcia, Physics, Murcia, Spain (montavez@um.es)

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): Marion Schroedter-Homscheidt

11:30–11:45: EMS2014-328

Simulation of long term solar power feed-in and solar balancing potential in European countries

Kabritri Nag, Elke Lorenz, Alexander Kies, Lüder von Bremen, Detlev Heinemann
 Carl-von Ossietzky University of Oldenburg, Institute of Physics

11:45–12:00: EMS2014-444

Response of electricity demand to temperature and solar radiation in Italy

Simone Scapin, Francesco Apadula, Michele Brunetti, Maurizio Maugeri
 Ricerca sul Sistema Energetico - RSE Spa, Milano, Italy (simone.scapin@rse-web.it), Dipartimento di Fisica, Università degli Studi di Milano, Milano, Italy (maurizio.maugeri@unimi.it)

12:00–12:15: EMS2014-331

Investigation of balancing effects in long term renewable energy feed-in with respect to the transmission grid

Alexander Kies, Lüder von Bremen, Kabritri Nag, Elke Lorenz, Detlev Heinemann
 Institute of Physics, Carl von Ossietzky University of Oldenburg, Germany (alexander.kies@uni-oldenburg.de), Forwind-Center for Wind Energy Research, University of Oldenburg, Germany

12:15–12:30: EMS2014-132

Towards a more accurate solar and wind power prediction by improving NWP model physics

Carmen Köhler, Andrea Steiner
 DWD, Offenbach, Germany (carmen.koehler@dwd.de)

12:30–12:45: EMS2014-170

Operational Wind and Solar Energy power forecasting for the Australian Energy Market

Peter Coppin, **Jing Huang**
 CSIRO Energy Flagship, Canberra, Australia (peter.coppin@csiro.au)

12:45–13:00: EMS2014-424

Now-casting of Wind and PV for EEX/EPEX Traders
Roman Y. Asper
 enercast GmbH, Kassel, Germany

13:00 Lunch Break**15:30–17:30**

Chairperson(s): Ekaterina Batchvarova

15:30–15:45: EMS2014-199

The ORKA project: Improving COSMO-DE-EPS for Renewable Energy applications
Regina Kohlhepp, Jonas von Schumann, Michael Buchhold
 Deutscher Wetterdienst (DWD), Offenbach am Main, Germany

15:45–16:00: EMS2014-2

Observations and modeling of the wind profile and wind turning in the atmospheric boundary layer
Alfredo Peña, Sven-Erik Gryning, Rogier Floors
 DTU, Wind Energy, Wind Energy, Roskilde, Denmark
 (aldi@dtu.dk)

16:00–16:15: EMS2014-202

The impact of stability on the near-surface wind in high-wind conditions over sea
 Peter Baas, **Fred Bosveld**, Gerrit Burgers
 KNMI, Regional Climate Section, De Bilt, Netherlands
 (baasp@knmi.nl)

16:15–16:30: EMS2014-257

Validation of offshore boundary layer wind shear profiles for wind energy research
Maarten Holtslag, Wim Bierbooms, Gerard van Bussel
 Technical University Delft, the Netherlands
 (m.c.holtslag@tudelft.nl)

16:30–16:45: EMS2014-500

Observations of the boundary-layer height and the wind profile in the marine boundary layer
Rogier Floors, Sven-Erik Gryning, Alfredo Peña
 Department of Wind Energy, DTU, Roskilde, Denmark
 (rofl@dtu.dk)

16:45–17:00: EMS2014-595

Monitoring vertical wind profiles at a coastal area using a lidar doppler for wind energy applications
Claudia Roberta Calidonna, Daniel Gulli, Stefano Federico, Elenio Avolio, Teresa Lo Feudo, Luca Tiriolo, Anna Maria Sempreviva
 Institute of Atmospheric Science and Climate, C.N.R., Lamezia Terme (CZ), Italy (cr.calidonna@isac.cnr.it)

17:00–17:15: EMS2014-208

An experimental and numerical study of the urban wind field at the university site Tübingen
Asmae El Bahlouli, Jens Bange
 Tübingen, Center for Applied Geoscience, Environmental Physics, Tübingen, Germany
 (asmae.el-bahlouli@uni-tuebingen.de)

17:15–17:30: EMS2014-233

Comparison of inflow wind variables and error detection using LiDAR technology
Ashim Giyanani, Wim Bierbooms, Gerard van Bussel
 Wind Energy Research Group, Faculty of Aerospace Engineering, Delft University of Technology,
 Kluyverweg 1, 2629 HS Delft, the Netherlands
 (a.giyanani@tudelft.nl)

ORAL PROGRAMME ASI13 continues on Wednesday morning.

Side Meetings & Workshops**SIM2 EUMETNET climate expert team meeting (by invitation only)**

Convener: Ingeborg Auer
Lecture Room: Aquarius

11:30–15:00**SIM5 Programme and Science Committee: EMS & ECAM 2015 (by invitation only)**

Convener: Martina Junge
Lecture Room: Aquarius

15:30–17:30**SIM6 Communications workshop for European weather services (by invitation only)**

Convener: Michael Williams
Co-Convener: Tanja Cegnar
Lecture Room: Taurus

14:00–17:30**SIM11 WMO RA VI RCC Network: Informal coordination meeting (by invitation only)**

Conveners: Stefan Rösner; Aryan F.V. van Engelen
Lecture Room: Quadrant

17:00–19:00

European Conference on Applied Climatology (ECAC)

Understanding processes and climate change

UC1 Climate change detection, assessment of trends, variability and extremes

Convener: Albert M.G. Klein Tank

Co-Conveners: Martine Rebetez; Monika Lakatos

Poster Area: Meridian Left Front

Chairperson(s): Albert Klein Tank

Attendance Time: 10:30–11:30

LF19: EMS2014-524

Soil temperature and its long-term changes in Latvia
Agrita Briede, Lita Lizuma, Zanita Avotniece
Department of Geography, University of Latvia, Latvia

LF20: EMS2014-275

On the Origins of Cyclones Entering the Baltic Sea Region
Mait Sepp, Kaupo Mändla, Piia Post
University of Tartu, Department of Geography, Tartu, Estonia (mait.sepp@ut.ee)

LF21: EMS2014-455

Sea Ice Area Investigation over the East Greenland Sea during 2003-13
Mauro Boccolari, Lorenzo Guerrieri, Flavio Parmiggiani
University of Modena and Reggio Emilia, Department of Chemical and Geological Sciences, Modena, Italy (mauro.boccolari@unimore.it)

LF22: EMS2014-532

The Probability of Rainfall Causing Floods and Droughts in the Citarum River Basin: Will They Increase in the Future?
Akhmad Faqih, Rizaldi Boer, Adi Rakhman, Syamsu Dwi Jadmiko
Center for Climate Risk and Opportunity Management in Southeast Asia and Pacific (CCROM-SEAP), Bogor Agricultural University (IPB), Bogor, Indonesia (e-Mail: ccromseap.ipb@gmail.com), Department of Geophysics and Meteorology, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University (IPB), Bogor, Indonesia (e-Mail: geomet@ipb.ac.id)

LF23: EMS2014-324

Variability and Mechanisms of Summer Heat Wave in Korea
Woo-Seop Lee, Myong-In Lee
APEC Climate Center, climate change department, Busan, Republic of Korea (wslee@apcc21.org)

LF24: EMS2014-618

Studies of trends in present and future climate in Northeastern Brazil and the Deployment of the Laboratory of Climate Change in Pernambuco- LMC
Francinete Francis Lacerda, Paulo Nobre, Geraldo Majella Bezerra Lopes, Eduardo Delgado Assad
Instituto Agrônomico de Pernambuco - IPA, Recife, PE, Brasil. Doutoranda do Programa de Pós Graduação do Departamento de Engenharia Civil da Universidade Federal de Pernambuco, UFPE francis.lacerda@ipa.br

LF25: EMS2014-270

Extreme events of precipitation on Sardinia island, 1951-2000
Paolo Boi
Dipartimento Meteorologico, ARPAS, Sassari, Italy (pboi@arpa.sardegna.it)

LF26: EMS2014-109

Evaporation observations, estimates and driving factors in Spain (1961-2011)
Cesar Azorin-Molina, Sergio Martín Vicente Serrano, Arturo Sanchez-Lorenzo, Juan I. Lopez-Moreno, Enrique Moran-Tejeda, Jesus Revuelto, Francisco Espejo, Tim R. McVicar
Instituto Pirenaico de Ecología, Procesos geoambientales y Cambio Global, Zaragoza, Spain (svicen@ipe.csic.es)

LF27: EMS2014-114

Significant Climatic Warming (1950-2012) in the Spanish Mediterranean: Natural Trend or Urban Heat Island
José Quereda Sala, Enrique Montón Chiva, Belen Mollá Cantavella, **Victoria Quereda Vázquez**
Universitat Jaume I, Interuniversity Institute of Geography, Climate Laboratory, Castellón, Spain (montone@uji.es)

LF28: EMS2014-115

Sensitivity of reference evapotranspiration to changes in meteorological parameters in Spain (1961-2011)
Sergio Martín Vicente Serrano, Cesar Azorin-Molina, Arturo Sanchez-Lorenzo, Jesus Revuelto, Enrique Moran-Tejeda, Juan I. Lopez-Moreno, Francisco Espejo
Instituto Pirenaico de Ecología, Procesos geoambientales y Cambio Global, Zaragoza, Spain (svicen@ipe.csic.es)

LF29: EMS2014-311

Review of flood alert thresholds based on the socioeconomic impact of catastrophic events in the southeastern Spain
Salvador Gil-Guirado, Alfredo Perez Morales, Francisco Lopez Martinez, **Mariano Barriendos Vallve**
University of Barcelona, Barcelona, Spain

LF30: EMS2014-358

Links between circulation types and precipitation in NE Spain: comparison of E-OBS and RCM-simulated data
Eva Plavcová, Jan Kyselý, Santiago Beguería, Romana Beranová, Ladislav Gaál, Juan Ignacio López-Moreno
Institute of Atmospheric Physics AS CR, Prague, Czech Republic (plavcova@ufa.cas.cz)

LF31: EMS2014-636

A regional analysis of changes in flooding events along the Spanish coast

Melisa Menendez, Cc Izaguirre, Jj Perez, li Losada, Ff Mendez
Environmental Hydraulics Institute "IH Cantabria",
Universidad de Cantabria, Spain

END OF POSTER PROGRAMME UC1**UC5 Synoptic climatology**

Convener: Radan Huth

Co-Convener: Rasmus Benestad

Poster Area: Meridian Left Back

Chairperson(s): Radan Huth

Attendance Time: 10:30–11:30

LB1: EMS2014-21

The study of climate variability in Serbia using atmospheric circulation types

Gorica Stanojević

Geographical Institute "Jovan Cvijić" of the Serbian Academy of Sciences and Arts, Belgrade, Serbia
(g.stanojevic@gi.sanu.ac.rs)

LB2: EMS2014-133

EPISODES - Empirical Statistical Downscaling for Seasonal, Decadal up to Climate Time Series

Frank Kreienkamp, **Barbara Früh**

Deutscher Wetterdienst, Klima und Umweltberatung, Offenbach, Germany (frank.kreienkamp@dwd.de)

LB3: EMS2014-213

The comparison of weather types in the years of extreme drought over Croatia

Dunja Plačko-Vršnak, Marija Mokorić, Krunoslav Mikec

Croatia (dplacko@cirus.dhz.hr)

LB4: EMS2014-457

Importance of latent heat release for the transformation of cyclones to severe storms over the North Atlantic in dependence of spatial resolution

Simon Wild, Daniel J. Befort, **Gregor C. Leckebusch**
University of Birmingham, School of Geography, Earth and Environmental Sciences, Birmingham, United Kingdom (sbw206@bham.ac.uk)

LB5: EMS2014-549

A combination of circulation type classifications and neural networks for downscaling alpine climate stations

Andreas Philipp, Severin Kaspar, Jucundus Jacobeit
University of Augsburg, Geography, Physical Geography and Quantitative Methods, Augsburg, Germany (andreas.philipp@geo.uni-augsburg.de)

LB6: EMS2014-573

Influences of seasonal synoptic weather types on local PM10 concentrations from 1980-2011 in Bavaria (Germany)

Claudia Weitnauer, Christoph Beck, Jucundus Jacobeit

Augsburg, Geography, Physical Geography and Quantitative Methods, Augsburg, Germany
(claudia.weitnauer@geo.uni-augsburg.de)

LB7: EMS2014-149

European atmospheric circulation and temperature trends since 1850

Monika Cahynova

Institute of Atmospheric Physics, Academy of Sciences of the Czech Republic, Department of Climatology, Praha 4, Czech Republic (cahynova@ufa.cas.cz)

LB8: EMS2014-519

Synoptic conditions of extremely high reference evapotranspiration values in Poland (1971-2010)

Pawel Bogawski, Ewa Bednorz

Adam Mickiewicz University in Poznan, Faculty of Biology, Laboratory of Aeropalynology, Poznan, Poland (bogawski@amu.edu.pl), Adam Mickiewicz University in Poznan, Faculty of Geographical and Geological Sciences, Department of Climatology

LB9: EMS2014-651

Statistical downscaling of the tropical cyclone activity based on the sea surface temperature

Antonio Espejo, Fernando J. Mendez, Javier Diez,

Raul Medina, Sultan Al-Yayai
Environmental Hydraulics Institute "IH Cantabria"
Universidad de Cantabria, Spain

END OF POSTER PROGRAMME UC5**Research and services for socio-economic sectors****SE2 Host topical session: From climate science to climate services: CORDEX**

Convener: Tomas Halenka

Co-Convener: Daniela Jacob

Poster Area: Meridian Left Back

Chairperson(s): Tomas Halenka

Attendance Time: 11:00–12:00

LB10: EMS2014-25

Regional climate simulations with WRF model

Jan Karlicky, Tomas Halenka, Michal Belda, Petr Skalac, Zuzana Klukova

Charles University, Prague, Fac. of Math. and Phys., Dept. of Meteorology and Environment Protection, Czech Republic

LB11: EMS2014-104

Effects of horizontal resolution of regional climate model simulations on convective and stratiform precipitation

Zuzana Rulfova, Ales Farda, Jan Kysely

Institute of Atmospheric Physics AS CR, Prague, Czech Republic (rulfova@ufa.cas.cz), Department of Meteorology and Environment Protection, Charles University in Prague, Czech Republic

END OF POSTER PROGRAMME SE2

SE4 European collaborative projects towards climate services

Convener: Carlo Buontempo
Co-Conveners: Chris Hewitt; Francisco J. Doblas-Reyes
Poster Area: Meridian Left Back
Chairperson(s): Carlo Buontempo
Attendance Time: 11:00–12:00

LB12: EMS2014-138

Seasonal Ensemble Simulations in East Africa
 Shakeel Asharaf, Bedassa Regassa Cheneka,
 Susanne Brienen, Kristina Fröhlich, Grigory Nikulin,
Barbara Früh, EUPORIAS East Africa Team
 Deutscher Wetterdienst, Klima und Umweltberatung,
 Offenbach, Germany (barbara.frueh@dwd.de)

END OF POSTER PROGRAMME SE4

Communication and Education

CE1 Media and Communication

Convener: Tanja Cegnar
Poster Area: Meridian Right Back
Chairperson(s): T. Cegnar
Attendance Time: 10:30–11:30

RB1: EMS2014-419

An overview of the use of Twitter in National Weather Services
Santiago Gaztelumendi, Maialen Martija, Olatz Principe, Virginia Palacio
 TECNALIA - Meteo Unit, Basque Meteorology Agency (EUSKALMET)

END OF POSTER PROGRAMME CE1

Numerical Weather Prediction

NWP4 Probabilistic and ensemble forecasting at short and medium-range

Convener: Andrea Montani
Co-Conveners: Jan Barkmeijer; Fernando Prates
Poster Area: Meridian Left Back
Chairperson(s): Montani, A.
Attendance Time: 10:30–11:30

LB26: EMS2014-79

Calibration of limited-area ensemble precipitation forecasts for hydrological predictions
Tommaso Diomede, Chiara Marsigli, Andrea Montani, Fabrizio Nerozzi, Tiziana Paccagnella
 ARPA-SIMC, HydroMeteorological and Climate Service of the Emilia-Romagna Regional Agency for Environmental Protection, Bologna, Italy (tdiomede@arpa.emr.it)

LB27: EMS2014-20

Wind Speed Ensemble Predictions with an Analog-based Method in Complex Terrain
Iris Odak, Luca Delle Monache, Kristian Horvath, Mario Hrastinski, Alica Bajić
 Meteorological and Hydrological Service, Zagreb, Croatia

LB28: EMS2014-237

A Study on the Ensemble MOS for Medium Range Prediction based on Ensemble Prediction System for Global in Korea Meteorological Administration
Juntae Choi
 Republic of Korea (cjt@kma.go.kr)

LB29: EMS2014-319

Effect of horizontal resolution and ensemble number on the precipitation forecast in the regional ensemble forecast system of the Korea Meteorological Administration
SeHyun Kim, Hyun Mee Kim, Jun Kyung Kay, Seung-Woo Lee
 Department of Atmospheric Sciences, Yonsei University, Seoul, Republic of Korea

LB30: EMS2014-557

INCA Precipitation Analysis and Ensemble Nowcasting - Recent Developments and Operational Experiences
Benedikt Bica, Martin Suklitsch, Alexander Kann
 Central Institute for Meteorology and Geodynamics, Numerical Weather Prediction, Vienna, Austria (benedikt.bica@zamg.ac.at)

END OF POSTER PROGRAMME NWP4

The Atmospheric System and its Interactions

ASI13 Energy Meteorology

Convener: Sven-Erik Gryning
Co-Conveners: Ekaterina Batchvarova; Marion Schroedter-Homscheidt; Lucien Wald
Poster Area: Meridian Right Back
Chairperson(s): Ekaterina Batchvarova
Attendance Time: 10:30–11:30

RB11: EMS2014-420

Wind characteristics of selected regions in Poland.
Katarzyna Starosta, Joanna Linkowska, Andrzej Mazur
 Institute of Meteorology and Water Management-National Research Institute, Numerical Weather Forecasts, Warsaw, Poland
 (katarzyna.starosta@imgw.pl)

RB12: EMS2014-357

Understanding wind energy variability over Korean peninsula using Climate Change Scenario
Yumi Kim, Yoonjin Lim, Byoung-Choel Choi, Nam-Hee Kim
 National Institute of Meteorological Research, Republic of Korea (akahana@korea.kr)

RB13: EMS2014-604

On the Weibull distribution for wind energy assessment
Ekaterina Batchvarova, Sven-Erik Gryning
 National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences, Sofia, Bulgaria
 (Ekaterina.Batchvarova@meteo.bg)

RB14: EMS2014-438

Using MNWP models of different horizontal resolution to estimate available wind power resources at specific locations
Mario Hrastinski, Alica Bajić
 Meteorological and Hydrological Service, Atmospheric research and forecast models development department, Zagreb, Croatia (mario.hrastinski@cirus.dhz.hr)

RB15: EMS2014-274

Standardization of meteorological data from offshore platforms
Tina Leiding, Lydia Gates, Birger Tinz, Gudrun Rosenhagen
 Deutscher Wetterdienst, Hamburg, Germany
 (tina.leiding@dwd.de)

RB16: EMS2014-120

Power curves of entire wind farms under real operating conditions
Armin Raabe, Janek Zimmer
 Universität Leipzig, Institut für Meteorologie, Leipzig, Germany (RAABE@UNI-LEIPZIG.DE)

RB17: EMS2014-231

Forecasting wind power production from a wind farm using the RAMS Model
Luca Tiriolo, Rosa Claudia Torcasio, Stefania Montesanti, Anna Maria Sempreviva, Claudia Roberta Calidonna, Stefano Federico
 Institute of Atmospheric Sciences and Climate of the Italian National Council of Research, ISAC-CNR, UOS of Lamezia Terme, zona Industriale Comparto 15, 88046 Lamezia Terme, Italy (l.tiriolo@isac.cnr.it, rc.torcasio@isac.cnr.it, s.montesanti@isac.cnr.it)

RB18: EMS2014-280

Advancing Model Output Statistics (MOS) in the new German project EWeLiNE for enhanced temporal resolution and wind forecasting
Gernot Vogt, Sebastian Trepte
 German Weather Service (DWD), Offenbach am Main, Germany (gernot.vogt@dwd.de)

RB19: EMS2014-409

Towards seamless optimized wind forecasting
 Alexander Kann, **Benedikt Bica**, Martin Suklitsch
 Central Institute for Meteorology and Geodynamics, Numerical Weather Prediction, Vienna, Austria
 (alexander.kann@zamg.ac.at)

END OF POSTER PROGRAMME ASI13



EMS ANNUAL MEETING & EUROPEAN CONFERENCE ON APPLICATIONS OF METEOROLOGY

7 - 11 September 2015 | Sofia | Bulgaria
Kempinski Hotel

The EMS & ECAM 2015 in Sofia will be jointly organised by the EMS, the Bulgarian Meteorological Society (BMS), Aviometeorological Club of Bulgaria (AMC) and the National Institute of Meteorology and Hydrology (NIMH).

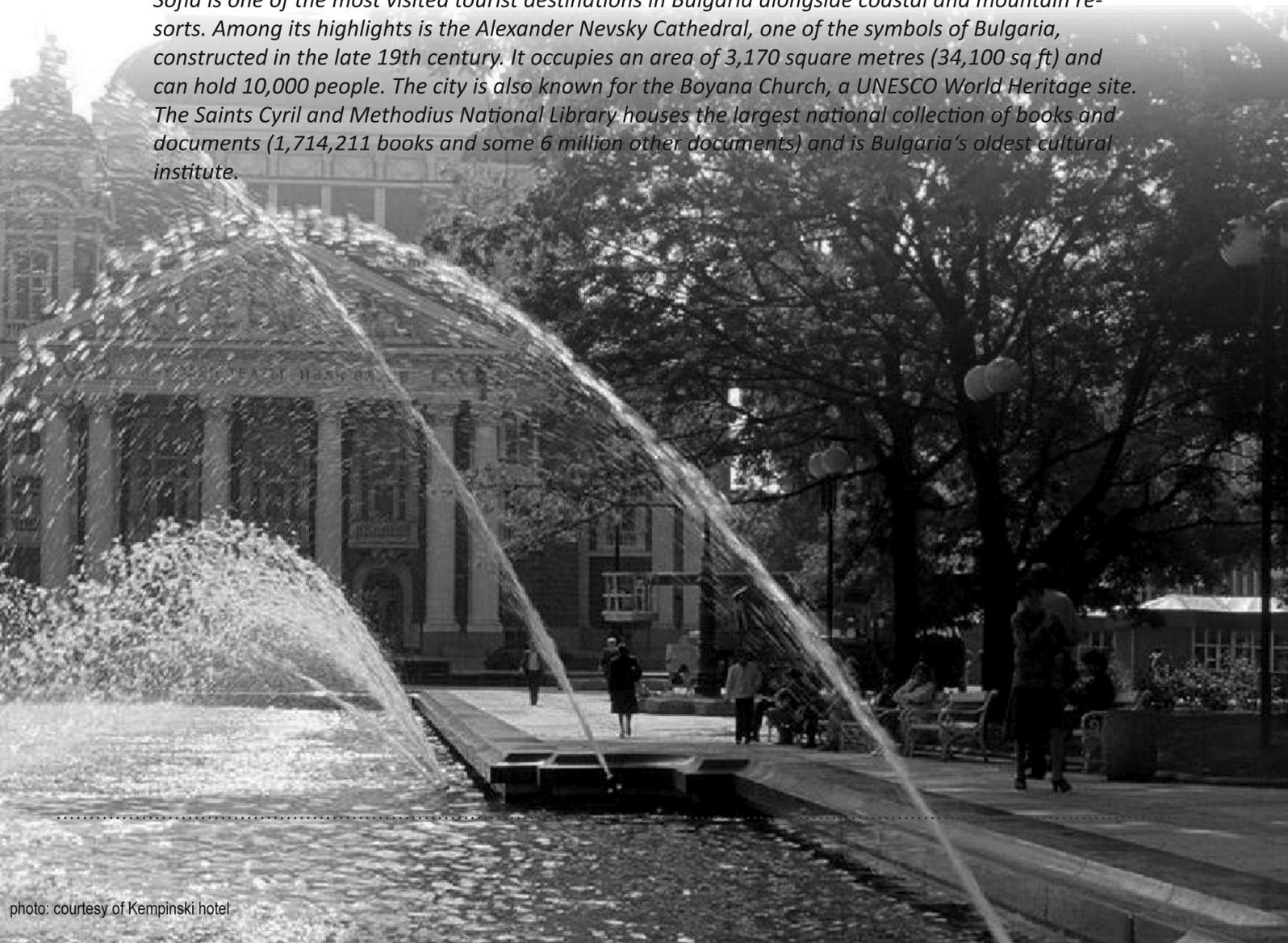
Save the dates: The EMS Annual Meetings and partner conferences are ,travelling‘ round Europe. Following the 2015 event, the next EMS&ECAC will be held **12-16 September 2016 in Trieste**, and **Dublin** will host the EMS&ECAM **11-15 September 2017**.

TIMELINE

- DECEMBER 2014 ••• *First Announcement*
- FEBRUARY 2015 ••• *Call for papers*
- MID-APRIL 2015 ••• *Close of abstract submission*

Sofia is the capital and largest city of Bulgaria. Sofia is located at the foot of Mount Vitosha in the western part of the country. It occupies a strategic position at the centre of the Balkan Peninsula. Sofia's history spans 2,400 years. Its ancient name Serdica derives from the local Celtic tribe of the Serdi who established the town in the 5th century. situated in western Bulgaria, at the northern foot of the Vitosha mountain, in the Sofia Valley that is surrounded by mountains on all sides.

Sofia is one of the most visited tourist destinations in Bulgaria alongside coastal and mountain resorts. Among its highlights is the Alexander Nevsky Cathedral, one of the symbols of Bulgaria, constructed in the late 19th century. It occupies an area of 3,170 square metres (34,100 sq ft) and can hold 10,000 people. The city is also known for the Boyana Church, a UNESCO World Heritage site. The Saints Cyril and Methodius National Library houses the largest national collection of books and documents (1,714,211 books and some 6 million other documents) and is Bulgaria's oldest cultural institute.



Wednesday, 08 October 2014						
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius
08:30–10:30	SE5: GFCS: services with a focus on non-European regions	ASI13: Energy Meteorology	NWP1: Dynamics and predictability of high impact weather in operational forecasting	ASI4: Coastal meteorology and oceanography	CE2: Adaptation to climate change	SIM4: Tips for effectively dealing with the media – training workshop (public)
10:30–11:30	<p align="center">Poster Session & Coffee Break Foyer and Room Meridian</p> <p align="center"><i>Poster authors in attendance time for the following sessions:</i> ECAC programme group: SE5 (LB13 + LB14) NWP programme group: NWP1 (LB15 - LB18) CE programme group: CE2 (RF1) ASI programme group: ASI4 (RF2 - RF14), ASI13 (RB20 - RB27)</p>					
11:30–13:00	SE5	ASI13	NWP1 until 12:00 ASI7: Atmospheric hazards 12:00–13:00	ASI4	CE2	SIM4
13:00	Lunch Break					
14:00–16:00	SE1/CE6: Creating national and regional climate services in Europe	ASI13	ASI7	MC3: Historical climatology and paleo-climatology	NWP5/ASI14: Mountain Meteorology	SIM9: The future of the EMS Annual Meetings (public)
16:00	<p align="center">Coffee Break until 16:30 Poster Session 16:00-17:00 Room Meridian</p> <p align="center"><i>Poster authors in attendance time for the following sessions:</i> ECAC programme group: MC3 (LB1 - LB5), SE1/CE6 (LB29 - LB31) NWP programme group: NWP5/ASI14 (LF28 - LF31) ASI programme group: ASI7 (RF7 - RF11)</p>					
16:30	<p align="center">ECAC Symposium Room Zenit The challenge of Climate Services: bridging the gaps 16:30–18:00 <i>Detailed programme see page 10</i></p>					SIM13: ESSL General Assembly 17:30-19:00
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius

In the detailed daily programme (on pages 47 to 60) the related ECAC, NWP, CE and ASI sessions are listed in the following order: MC3, SE1/CE6, SE5, CE2, NWP1, NWP5/ASI14, ASI4, ASI7, ASI13.

Poster Display Time Monday – Wednesday lunchtime

Authors are kindly asked to put up their posters as soon as possible within the allocated display time in order to enable the conference participants to view their posters at any time within the display days, and to take them down on Wednesday between 13:00–14:00. Posters that have not been removed within this dismantling time will be removed and disposed off.

Special Events

SPS3/SE6 ECAC Symposium: The challenge of Climate Services: bridging the gaps (co-organized)

Convener: Ingeborg Auer
Lecture Room: Zenit

16:30–18:00

For details of the programme see page 10.

European Conference on Applied Climatology (ECAC)

Monitoring climate and climate change

MC3 Historical climatology and paleoclimatology

Convener: R. Brázdil
Co-Conveners: Ulf Buentgen; Fidel González-Rouco; Ricardo García-Herrera
Lecture Room: Tycho

14:00–16:00

Chairperson(s): R. Brázdil

14:00–14:15: EMS2014-399

Frost, Droughts, and Sunshine: Seasonal Reconstruction of Temperatures and Precipitation Based on Documentary Evidence in the Burgundian Low Countries during the 15th Century

Chantal Camenisch

Oeschger Centre for Climate Change Research/Section of Economic, Social, and Environmental History (WSU), University of Bern, Switzerland
(chantal.camenisch@hist.unibe.ch)

14:15–14:30: EMS2014-189

Multiproxy reconstruction of wet and dry periods in the Czech Lands since AD 1500

Petr Dobrovolný, Rudolf Brázdil, Ulf Büntgen, Michal Rybníček, Tomáš Kolář, Mirek Trnka

Masaryk University, Department of Geography, Brno, Czech Republic (dobro@sci.muni.cz), Global Change Research Centre AS CR, Brno, Czech Republic

14:30–14:45: EMS2014-507

An initial assessment of the weather data from the 1851 Census of Ireland

Kieran R. Hickey

National University of Ireland, Galway, Department of Geography, Galway city, Ireland
(kieran.hickey@nuigalway.ie)

14:45–15:00: EMS2014-198

Hydrometeorological extremes in Southern Moravia, Czech Republic, since AD 1701

Rudolf Brázdil Kateřina Chromá, Lukáš Dolák, Ladislava Řezníčková, and Hubert Valášek

Masaryk University, Institute of Geography, Brno, Czech Republic (brazdil@sci.muni.cz)

15:00–15:15: EMS2014-141

Meteorological reconstruction of major floods in early instrumental period in Catalonia (NE Iberian Peninsula)

Jordi Mazon, Joan Carles Balasch, Mariano Barriendos, Josep Lluís Ruiz-Bellet, David Pino, Jordi Tuset

TechnicDepartment of Applied Physics, Universitat Politècnica de Catalunya · BarcelonaTech, Castelldefels, Spain
University of Catalonia - BarcelonaTech, Applied Physics Department, Spain
(jordi.mazon@upc.edu)

15:15–15:30: EMS2014-528

J. Felbiger and his meteorological observations at Bratislava, Slovakia in early 1780s

Marián Melo, Peter Pišút

Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia
(melo@fmph.uniba.sk)

15:30–15:45: EMS2014-144

Understanding Historical Arctic Sea Ice Terms

Dinah Molloy, Matthew Ayre

Ireland (dmt@compuserve.com) Scott Polar Research Institute Cambridge (UK), Irish Meteorological Society

15:45–16:00: EMS2014-562

Wi and NAO in regional climate model's experiments

Juan Pedro Montavez, Almudena García-García, Juan Jose Gómez-Navarro

Department of Physics, Universidad de Murcia, Murcia, Spain (montavez@um.es)

END OF ORAL PROGRAMME MC3

Research and services for socio-economic sectors

SE1/CE6 Creating national and regional climate services in Europe through partnerships (co-organized)

Convener: Clare Goodess

Co-Conveners: Mark McCarthy; Tanja Cegnar; Ge Verver; Christof Appenzeller

Lecture Room: Zenit

14:00–16:00

Chairperson(s): Clare Goodess

Partnerships

14:00–14:15: EMS2014-614

Fostering collaborations to support climate services

Catherine Vaughan, Stephen Zebiak

Columbia University, International Research Institute for Climate & Society, Palisades, NY, United States
(cv2195@columbia.edu)

14:15–14:30: EMS2014-663

The European Climate Service Partnership

Chris Hewitt, Carlo Buontempo

UK Met Office Hadley Centre
(chris.hewitt@metoffice.gov.uk,
carlo.buontempo@metoffice.gov.uk)

Lessons learned

14:30–14:45: EMS2014-611

CSC - Germany: Lessons learned and the European perspective

Irene Fischer-Bruns, Maria Máñez Costa, Daniela Jacob, Guy Brasseur

Helmholtz-Zentrum Geesthacht, Climate Service Center

14:45–15:00: EMS2014-232

Towards a development of a Mediterranean Climate Services Network: lesson learnt and recommendations from CLIMRUN project

Alessandro Dell'Aquila, Clare Goodess, Paolo Michele Ruti and the The CLIM-RUN Climate Expert Team and Stakeholder Expert Team

ENEA, UTMEA-CLIM, UTMEA-CLIM, Rome, Italy
(alessandro.dellaquila@enea.it)

15:00–15:15: EMS2014-112

Future projections of climate indices support adaptation policies in Switzerland

Elias M. Zubler, Andreas M. Fischer, Mark A. Liniger, Christof Appenzeller

MeteoSwiss, Federal Office of Meteorology and Climatology, Zurich, Switzerland
(elias.zubler@meteoswiss.ch)

New data initiatives and users

15:15–15:30: EMS2014-411

Defining User Needs in Copernicus Climate Change Services

Hilppa Gregow, Kirsti Jylhä, Hanna Mäkelä, Andrea Kaiser-Weiss, Andre Obregon, David Tan, Paul Poli, Frank Kaspar

Finnish Meteorological Institute, Climate Service Center, Helsinki, Finland (hilppa.gregow@fmi.fi)

15:30–15:45: EMS2014-367

FP-7 CORE-CLIMAX: How to ensure sustainable, transparent, and traceable generation of climate data records?

Joerg Schulz, **Viju John**, Andrea Kaiser-Weiss, Rob Roebeling, Andre Obregon, Else Swinnen, Carolien Tote, Ali Nardir Arslan, Jean-Christophe Calvet, Hilppa Gregow, Terhikki Manninen, Paul Poli, Bob Su, David Tan, Wim Timmermans, Yijian Zeng

EUMETSAT, Darmstadt, Germany
(Joerg.Schulz@eumetsat.int)

Evaluation

15:45–16:00: EMS2014-622

Climate service evaluation: design elements and metrics

Catherine Vaughan, Suraje Dessai
International Research Institute for Climate & Society, Columbia University, Palisades, NY, United States

(cv2195@columbia.edu), Sustainability Research Institute, School for Earth & the Environment, Leeds University, Leeds United Kingdom

END OF ORAL PROGRAMME SE1/CE6

SE5 GFCS: services developed for (climate) vulnerable areas with a focus on non-European regions.

Convener: Filipe Lúcio

Co-Convener: Aryan F.V. van Engelen

Lecture Room: Zenit

08:30–10:30

Chairperson(s): Filipe Lucio and Aryan F.V. van Engelen

Opening

08:30–08:45: EMS2014-52

Enhancing National Climate Services in Africa

Tufa Dinku, John Del Corral, Remi Cousin

Columbia University, International Research Institute for Climate and Society(IRI), Palisades, United States
(tufa@cheerful.com)

08:45–09:00: EMS2014-154

The SASSCAL contribution to climate observation, climate data management and data rescue in southern Africa

Frank Kaspar, Joseph Kanyanga, Molemoeng C.

Matsheka, Francisco Osvaldo S. Neto, Rafael Posada, Jens Riede, Grieffy J. Stegling, Mary Seely, Birger Tinz, Jan Tolzmann

DWD, Germany (frank.kaspar@dwd.de)

09:00–09:15: EMS2014-140

ICA&D: The International Climate Assessment & Dataset - climate services cross borders in South East Asia, South America and West Africa

Aryan F.V. van Engelen

KNMI, De Bilt, Netherlands
(aryan.van.engelen@knmi.nl)

09:15–09:30: EMS2014-639

Climate services in South East Asia: new developments in the Southeast Asian Climate Assessment & Dataset

Gerard van der Schrier, Else van den Besselaar, Albert Klein Tank, Aryan van Engelen, Verver Ge KNMI, the Netherlands

09:30–09:45: EMS2014-256

A real-time dengue early warning driven by seasonal climate forecasts

Rachel Lowe, Christovam Barcellos, Caio A. S. Coelho, Trevor Bailey, Giovanini Coleho, Richard Graham, Tim Jupp, Walter Ramalho, Marilia Sa Carvalho, David B. Stephenson, Xavier Rodo

Institut Català de Ciències del Clima (IC3), Climate Dynamics and Impacts Unit, Barcelona, Spain
(rachel.lowe@ic3.cat)

09:45–10:00: EMS2014-171

A framework for provider-user engagement to drive climate service development

Carlo Buontempo, Jane Strachan, Chris Hewitt, Keeley Ellett

Met Office, Hadley Centre, Exeter, United Kingdom
(carlo.buontempo@metoffice.gov.uk)

10:00–10:15: EMS2014-127

Users' engagement in climate service development: the case of EUPORIAS

Carlo Buontempo and the EUPORIAS science and stakeholder Team

Met Office, Hadley Centre, Exeter, United Kingdom
(carlo.buontempo@metoffice.gov.uk)

10:15–10:30: EMS2014-621

Climate services for society: a bird's eye view

Catherine Vaughan, Suraje Dessai

International Research Institute for Climate & Society, Columbia University, Palisades, NY, United States (cv2195@columbia.edu), School for Earth & the Environment, Sustainability Research Institute, Leeds University, Leeds, UK

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): Filipe Lucio and Aryan F.V. van Engelen

11:30–11:45: EMS2014-236

Impact of 2c warming over the vulnerable areas of Africa region in the AFRICA-CORDEX simulations

Alessandro Dell'Aquila, Sandro Calmanti, Paolo Michele Ruti

ENEA, UTMEA-CLIM, UTMEA-CLIM, Rome, Italy
(alessandro.dellaquila@enea.it)

11:45–12:00: EMS2014-56

Study on risk management of extreme weather related disasters and climate change adaptation in Malawi and Zambia (SAFE-MET)

Ari Venäläinen, Karoliina Pilli-Sihvola, Minchul Sohn, Heikki Tuomenvirta, Reija Ruuhela, Otto Hyvärinen, Senja Väättäinen, Elna Kululanga, Lucy Mtilatila, Felix Imbwae, Lyson Phiri

Finnish Meteorological Institute, Climate research and applications, Helsinki, Finland (ari.venalainen@fmi.fi)

12:00–12:15: EMS2014-594

Operationalizing a transferrable open source climate information service - lessons from the Indonesian-German DATCLIM project

Gerhard Rappold, Edwin Aldrian, Irfan Arif, Martin Dresen, Mohammad Fadli, Mona Thiele, Boris Orlowsky, Antoyo Setyadipratiko, Till Sterzel, Widada Sulistya, Ariyanto Yohanes Wibowo

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)

12:15–12:30: EMS2014-214

Testing and evaluating the utility of three climate projection tools for Caribbean decision makers - the CARIWIG case studies

Clare Goodess, Ottis Joslyn

University of East Anglia, Climatic Research Unit, Norwich, United Kingdom (c.goodess@uea.ac.uk)

12:30–12:45: EMS2014-615

Report from the CSP Developing Countries Task Team

Stephen Zebiak, Jacqueline Spence, Catherine Vaughan

Columbia University, International Research Institute for Climate & Society, Palisades, NY, United States (cv2195@columbia.edu)

12:45–13:00: EMS2014-164

Development of Sectorally-Oriented Seasonal Forecast Indicators for New Zealand

Yinpeng Li, Chonghua Yin, Peter Urich, Reece Hill
New Zealand (yinpengli@climsystems.com)

Discussion and Concluding Remarks

Q&A session

END OF ORAL PROGRAMME SE5

Communication and Education

CE2 Adaptation to climate change

Convener: André Jol
Co-Convener: Tanja Cegnar
Lecture Room: Taurus

08:30–10:30

Chairperson(s): A. Jol

09:00–09:30: EMS2014-293

The European Climate Adaptation Platform (Climate-ADAPT) (solicited)
André Jol, Kati Mattern
 European Environment Agency, Head of group vulnerability and adaptation, Copenhagen K, Denmark
 (andre.jol@eea.europa.eu)

09:30–10:00: EMS2014-247

Transnational challenges for climate cooperation - results from the Saxon-Czech project INTERKLIM
Nils Feske, Lenka Hájková, Petr Skalák, Siv-Ann Lippert, Lars Schöder, Andreas Hoy
 Saxon State Office for Environment, Agriculture and Geology (LfULG), Germany (nils.feske@yahoo.de)

10:00–10:30: EMS2014-632

Assessing Patterns of Vulnerability in Germany
Inke Schauer, Mark Fleischhauer, Stefan Greiving, Walter Kahlenborn, Christian Lindner, Johannes Lückenötter, Stefan Schneiderbauer, Marc Zebisch
 Federal Environment Agency, Dessau-Roßlau, Germany

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): A. Jol

11:30–11:45: EMS2014-631

Strategy on Adaptation to Climate Change in the Czech Republic
Jana Kontrosová
 Ministry of the Environment, Czech Republic

11:45–12:15: EMS2014-585

Climate information support for adaptation initiatives: Examples from the German Climate Service Center
Barbara Hennemuth, Andreas Hänslér, Daniela Jacob, Elke Keup-Thiel, Susanne Pfeifer, Diana Rechid
 Helmholtz-Zentrum Geesthacht, Climate Service Center, Germany (barbara.hennemuth@hzg.de)

12:15–12:30: EMS2014-180

Development of a web based GIS application to provide climate adaptation data for decision-makers
Nora Teichert, Ronny Petrik, David Grawe, K. Heinke Schluenzen
 Meteorological Institute, University of Hamburg, Germany (nora.teichert@uni-hamburg.de)

12:30–12:45: EMS2014-87

The VIADUC project: innovate in climate adaptation thanks to service design
Lola Corre, Philippe Dandin, David L'hôte
 Météo-France, Toulouse, France (lola.corre@meteo.fr, philippe.dandin@meteo.fr)

12:45–12:50:

Short poster presentation

12:50–13:00:

Final remarks and wrap up of the session

END OF ORAL PROGRAMME CE2

Numerical Weather Prediction

NWP1 Dynamics and predictability of high impact weather in operational forecasting, including nowcasting

Convener: Tim Hewson
Co-Convener: Suzanne Gray
Lecture Room: Leo + Virgo

08:30–10:30

Chairperson(s): Ron McTaggart-Cowan

Cyclones, High Impact Weather and Warnings

08:30–08:45: EMS2014-12

“Group velocity thinking” to understand interaction between extra-tropical cyclones
Anders Persson
 Swedish Meteorological Society, Norrköping, Sweden
 (andersoscar.persson@gmail.com)

08:45–09:00: EMS2014-641

Managing extreme weather in the UK winter of 2013/14
Alex Fox, Nick Grahame
 Met Office, Exeter, UK

09:00–09:15: EMS2014-90

Predictability and warnings of the East Coast Surge - December 5-6th 2013
Charlie Pilling
 Flood Forecasting Centre - United Kingdom
 (charlie.pilling@metoffice.gov.uk)

09:15–09:30: EMS2014-587

Summer in the city - High Resolution Modelling and Validation of Urban Weather and Human Thermal Comfort

Reinder Ronda, Gert-Jan Steeneveld, Jisk Attema, Bert Heusinkveld, Albert Holtslag
 Meteorology and Air Quality Section, Wageningen University

09:30–09:45: EMS2014-385

MATISSE: an ArcGIS tool monitoring and nowcasting meteorological hazards

Valeria Rillo, **Alessandra Lucia Zollo**, Paola Mercogliano
 EuroMediterranean Centre on Climate Change, Impact on Soil and Coast Division, Capua, Italy, Italian Aerospace Research Center (CIRA), Meteo System & Instrumentation Laboratory, Capua

Convection and Parametrisation Impact
09:45–10:00: EMS2014-517

Performance of the Met Office's convection permitting models on the Winter 2013-2014 severe weather events over the UK.

Bornemann Jorge, Neal Robert
 Met Office (UK), Met R&D, Exeter, United Kingdom
 (jorge.bornemann@metoffice.gov.uk)

10:00–10:15: EMS2014-600

Nowcasting and forecasting of lightning over Greece in the frame of Talos project

Konstantinos Lagouvardos, Vassiliki Kotroni, Theodoros Giannaros, Athanasios Karagiannidis
 National Observatory of Athens, Institute of Environmental Research and Sustainable Development, Athens, Greece (lagouvar@noa.gr)

10:15–10:30: EMS2014-439

Evolution of conserved variables related to storm cells during severe convection in a mesoscale model

Chris Weijenborg, Jeffrey Chagnon, Petra Friederichs, Suzanne Gray, Andreas Hense
 University of Bonn, Meteorological Institute, Bonn, Germany (cwborg@uni-bonn.de)

10:30 Coffee Break & Poster Sessions
11:30–13:00

Chairperson(s): Tim Hewson

11:30–11:45: EMS2014-628

The Effect of the Parameterizations of Convection on Rainfall Events in Poland

Bogumil Jakubiak, Richard Hodur
 University of Warsaw, ICM, Warsaw, Poland
 (jakubiak@icm.edu.pl)

11:45–12:00: EMS2014-423

Improving Numerical Guidance for Freezing Rain Events: Richardson Number Hysteresis (solicited)

Ron McTaggart-Cowan, Ayrton Zadra
 Numerical Weather Prediction Research Section, Environment Canada, Canada

END OF ORAL PROGRAMME NWP1

NWP5/ASI14 Mountain Meteorology (co-organized)

Convener: Michael Sprenger

Co-Conveners: Jürg Schmidli; Radmila Brozková

Lecture Room: Taurus

14:00–16:00

Chairperson(s): Radmila Brozková

Clouds and Precipitation
14:00–14:15: EMS2014-196

Which Flow Regime leads to Banner Cloud Formation?

Isabelle Prestel, Volkmar Wirth
 Institute for Atmospheric Physics, University, Mainz, Germany

14:15–14:30: EMS2014-76

Numerical simulations of sheared conditionally unstable flows over a mountain ridge

Mario Marcello Miglietta, Richard Rotunno
 ISAC-CNR, Lecce, Italy (m.miglietta@isac.cnr.it)

14:30–14:45: EMS2014-267

June 2013 flood case: on the role of potential vorticity banners past orography

Radmila Brozková, Ján Mašek
 ONPP/CHMI, Prague, Czech Republic
 (radmila.brozkova@chmi.cz, jan.masek@chmi.cz)

14:45–15:00: EMS2014-97

Statistical approach to the snowfall height forecast problem in eastern Alps

Arturo Pucillo, Agostino Manzato, Stefano Micheletti
 ARPA FVG (OSMER), Visco (UD), Italy
 (arturo.pucillo@meteo.fvg.it)

Sochi and Wind Forecasting
15:00–15:15: EMS2014-272

Field campaign and information resources of the FROST-2014 project

Dmitry Kiktev, Elena Astakhova, Michael Tsyrlunin
 Hydrometcentre of Russia, Moscow, Russian Federation (kiktev@mecom.ru)

15:30–15:45: EMS2014-432

First Results of the Bora Flow Forecast Verification in Terminal Aerodrome Forecasts in Croatia

Jadran Jurković, Igor Kos, and Ladislav Čoso
 Croatia (jadran.jurkovic@crocontrol.hr)

15:45–16:00: EMS2014-482

Ensemble Wind Forecasting Based on the HARMONIE Model and Adaptive Finite Elements in Complex Orography

Albert Oliver, Eduardo Rodríguez, José María Escobar, Gustavo Montero, Mariano Hortal, Javier Calvo, José Manuel Cascón, Rafael Montenegro
 University Institute for Intelligent Systems and Numerical Applications in Engineering (SIANI), University of Las Palmas de Gran Canaria (ULPGC) Campus de Tafira, 35017 Las Palmas de Gran Canaria, Spain

END OF ORAL PROGRAMME NWP5/ASI14

The Atmospheric System and its Interactions

ASI4 Coastal meteorology and oceanography

Convener: Mario Marcello Miglietta

Co-Conveners: Silvio Gualdi; Anna Maria Sempreviva; Manel Grifoll

Lecture Room: Tycho

08:30–10:30

Chairperson(s): M. M. Miglietta

08:30–09:00: EMS2014-578

The exceptional Winter 2012 conditions in the Northern Adriatic Sea: an analysis using the COAWST Modelling System (solicited)

Sandro Carniel, M. Marcello Miglietta, Antonio Ricchi, John C. Warner, Joseph B. Zambon, Alvise Benetazzo, Davide Bonaldo, Francesco M. Falcieri, Andrea Bergamasco, Pierpaolo Falco, Mauro Sclavo
CNR-ISMAR, Venice, Dept. Oceanography, Venice, Italy (sandro.carniel@ismar.cnr.it)

09:00–09:15: EMS2014-555

High-resolution simulation of an intense cold Bora outbreak: Importance of SST initialization

Silvio Davolio, Paolo Stocchi, Sandro Carniel, Alvise Benetazzo, Emanuele Bohm, Mariangela Ravaioli, Francesco Riminucci, XiaoMing Li
ISAC - CNR, Bologna, Italy (s.davolio@isac.cnr.it)

09:15–09:30: EMS2014-113

Coupled ocean-atmosphere-wave modeling of Sant Jordi Bay (NW Mediterranean Sea)

Manel Grifoll, Jorge Navarro, Elena Pallarès, Pedro Jimenez, Manuel Espino, Ana Palomares
LIM, Technical University of Catalonia, Barcelona, Spain (manel.grifoll@upc.edu)

09:30–09:45: EMS2014-629

High resolution unstructured grid for wave forecasting at coastal areas

Angel Martinez-Ferrer, Justo Conde-Criado, Ernesto Barrera-Rodriguez
Spanish Meteorological Agency, Madrid, Spain (amartinezf@aemet.es)

09:45–10:00: EMS2014-313

Sensitivity of Mid-Atlantic Coastal Breezes to Surface Variability

Dana Veron, Justin Gilchrist, John Lodise, Chris Hughes
College of Earth, Ocean, and Environment, University of Delaware, Newark, DE, United States (dveron@udel.edu)

10:00–10:15: EMS2014-653

The Iberian Peninsula Coastal Low-Level Jet
Climatology and Dynamics

Alvaro Semedo, Nadia Rijo, Daniela C. A. Lima, Pedro M. A. Miranda, Pedro M. M. Soares, Rita Cardoso
Escola Naval-CINAV, Base Naval de Lisboa, Alfeite, 2810-001 Almada, Portugal, milho.semedo@marinha.pt, Department of Earth Sciences, Uppsala University, Uppsala, Sweden

10:15–10:30: Poster introduction

10:30 Coffee Break & Poster Sessions

11:30–11:45: EMS2014-654

The Impact of Climate Change on the Iberian Coastal Low-Level Jet: EURO-CORDEX Projections

Alvaro Semedo, Daniela C. A. Lima, Pedro M. M. Soares, Rita Cardoso
Escola Naval-CINAV, Base Naval de Lisboa, Alfeite, 2810-001 Almada, Portugal, milho.semedo@marinha.pt, Department of Earth Sciences, Uppsala University, Uppsala, Sweden

11:45–12:00: EMS2014-638

An efficient multi-model approach for coastal flooding due to tropical cyclones

Antonio Espejo, Ana Rueda, Fernando Mendez, Antonio Tomas, Alba Cid, Sonia Castanedo, Manuel del Jesus, Gabriel Diaz-Hernandez, Alexandra Toimil, Ana Silio-Calzada, Javier Diez, Raul Medina, Ben Gouldby
Environmental Hydraulics Institute "IH Cantabria", Universidad de Cantabria, Spain

12:00–12:15: EMS2014-603

Averaged coastal boundary-layer profiles derived from acoustic sounding and sonic data

Damyan Barantiev, **Ekaterina Batchvarova**, Mikhail Novitzky
National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences, Sofia, Bulgaria;

12:15–12:30: EMS2014-137

Snow bands over the gulf of Finland

Jordi Mazon, Sami Niemelä, David Pino, Hannu Savijärvi, Timo Vihma
Department of Applied Physics. UPC-BarcelonaTech, Barcelona, Spain

12:30–12:45: EMS2014-552

2013-2014 winter storms: climatological assessment and impacts upon the Cantabrian coastline (Northern Spain)

Domingo Rasilla, Juan Carlos García-Codrón
GIMENA, Departamento de Geografía, Urbanismo y OT. Universidad de Cantabria, Spain (rasillad@unican.es)

12:45–13:00: EMS2014-58

An intense tropical-like cyclone in the western Mediterranean basin: numerical simulations and satellite analysis

Mario Marcello Miglietta, Giancarlo Modugno, Sante Laviola, Vincenzo Levizzani
ISAC-CNR, Italy (m.miglietta@isac.cnr.it)

END OF ORAL PROGRAMME ASI4

ASI7 Atmospheric hazards

Convener: Fulvio Stel
Co-Convener: Dario Gaiotti
Lecture Room: Leo + Virgo

11:30–13:00 (NWP1 until 12:00)

Chairperson(s): Fulvio Stel

12:00–12:15: EMS2014-401

Using numerical model for detailed spatial calculation of extreme wind climate

Jiri Hosek, David Hanslian, Lukas Pop
 Institute of Atmospheric Physics, Meteorology, Praha, Czech Republic (hosek@ufa.cas.cz)

12:15–12:30: EMS2014-598

The sensitivity of mesoscale heavy precipitation on atmospheric boundary layer over complex orography

Marco Bettiol, Dario B. Gaiotti, Fulvio Stel
 University of Trieste - Department of Physics

12:30–12:45: EMS2014-96

Atmospheric circulation and land-atmosphere interactions in regional climate models during major heat waves in Central Europe

Ondřej Lhotka, Jan Kysely
 Institute of Atmospheric Physics AS CR, Prague, Czech Republic, Faculty of Science, Charles University, Prague, Czech Republic

12:45–13:00: EMS2014-436

Cyclonic windstorms over Europe and their representation in models

Tim Hewson
 ECMWF, Forecast department - Evaluation section, Reading, United Kingdom (tim.hewson@ecmwf.int)

13:00 Lunch Break

14:00–16:00

Chairperson(s): Fulvio Stel

14:00–14:15: EMS2014-6

Will flights get bumpier because of climate change?

Paul Williams, Manoj Joshi
 University of Reading, Department of Meteorology, Reading, United Kingdom (p.d.williams@reading.ac.uk)

14:15–14:30: EMS2014-451

How to evaluate the extremeness of heavy precipitation events

Miloslav Müller, Lenka Chrova, Eva Holtanova, Marek Kaspar, Anna Valerianova
 Institute of Atmospheric Physics, Department of Meteorology, Prague, Czech Republic (muller@ufa.cas.cz), Charles University in Prague, Faculty of Science, Prague, Czech Republic

14:30–14:45: EMS2014-294

A rare but not impossible phenomenon in an arid Country: Heavy Rainfall in Egypt.

Marina Baldi, Magdy Kamal Badir, Hamdey Abd El Rahma
 CNR - Institute of Biometeorology, Roma, Italy (m.baldi@ibimet.cnr.it)

14:45–15:00: EMS2014-366

Spatial Distribution of Disasters by Track of Typhoons in Korea

Seung-Wook Lee, Suk-Hee Ahn, Ki-Seon Choi, Jeoung-Yun Kim, Baek-Jo Kim
 Policy research division, National Institute of Meteorological Research (NIMR), Republic of Korea (antcraft@korea.kr)

15:00–15:15: EMS2014-563

Synoptic conditions during the occurrence of long series of storm days in Central and Southern Europe

Katarzyna Grabowska, Joanna Popławska
 Department of Climatology, Faculty of Geography and Regional Studies, University of Warsaw, Warsaw, Poland (kasiagra@uw.edu.pl)

15:15–15:30: EMS2014-158

A Climatology of Greek Supercells

Dimitrios Foris, Vasileios Foris
 Meteorological Applications Center, Hellenic Agricultural Insurance Organization, Thessaloniki, Greece (d.foris@yahoo.com)

15:30–15:45: EMS2014-565

Warning maps against extreme meteorological hazards - an example from Poland

Zbigniew Ustrnul, **Agnieszka Wypych**, Ewelina Henek, Maciej Maciejewski
 Institute of Meteorology and Water Management - National Research Institute, Poland, Jagiellonian University, Krakow, Poland

15:45–16:00: EMS2014-607

Supercell tornadoes in Poland - case study

Joanna Popławska, Katarzyna Grabowska
 University of Warsaw, Faculty of Geography and Regional Studies, Department of Climatology, Warsaw, Poland (joanna.poplawska@uw.edu.pl)

END OF ORAL PROGRAMME ASI7

ASI13 Energy Meteorology

Convener: Sven-Erik Gryning

Co-Conveners: Ekaterina Batchvarova; Marion Schroedter-Homscheidt; Lucien Wald

Lecture Room: Nadir

08:30–10:30

Chairperson(s): Sven-Erik Gryning

08:30–08:45: EMS2014-219

Turbulent Interaction of Wind Turbines with the Atmospheric Boundary Layer above Land Surface Observed by Small Unmanned Research Aircraft

Jens Bange, Norman Wildmann

University of Tübingen, Centre for Applied Geoscience, Tübingen, Germany (jens.bange@uni-tuebingen.de)

08:45–09:00: EMS2014-118

Timing of wind gust maxima within a 100 m layer above the ground

Irene Suomi, Sven-Erik Gryning, Rogier Floors, Timo Vihma, Carl Fortelius

Finnish Meteorological Institute, Meteorological Research & Development, Helsinki, Finland (Irene.Suomi@fmi.fi)

09:00–09:15: EMS2014-244

Stochastic simulation of spatial wind gusts

René Bos, Wim Bierbooms, Gerard van Bussel

Wind Energy Group, Faculty of Aerospace Engineering, Delft University of Technology, Kluyverweg 1, 2629 HS Delft, the Netherlands (r.bos-1@tudelft.nl)

09:15–09:30: EMS2014-371

Random forests ramp forecasts for groups of wind farms

Pål Preede Revheim, Hans Georg Beyer

University of Agder, Department of Engineering, Grimstad, Norway (palpr@uia.no)

09:30–09:45: EMS2014-383

An LES study of wind turbine wakes within the offshore wind farm 'EnBW Baltic 1'

Martin Dörenkämper, Björn Witha, Gerald Steinfeld, Detlev Heinemann, Martin Kühn

Carl von Ossietzky University Oldenburg, Institute of Physics, ForWind - Center for Wind Energy Research, Germany (martin.doerenskaemper@forwind.de)

09:45–10:00: EMS2014-466

Variations in offshore wind turbine wake profiles with different inflow conditions of non-wake-affected upstream wind

Alexander Cassola, Andy Oldroyd, Brian Gribben, Neil Adams, Breanne Gellatly, Matthew Stickland

Oldbaum Services Ltd., Stirling, United Kingdom (a.cassola@oldbaumservices.co.uk)

10:00–10:15: EMS2014-495

Wind turbine wake deflection in different atmospheric stratifications

Lukas Vollmer, Marc Bromm, Gerald Steinfeld, Detlev Heinemann, Martin Kühn

Forwind - Center for Wind Energy Research, Carl von Ossietzky Universität Oldenburg, Oldenburg, Germany (lukas.vollmer@uni-oldenburg.de)

10:15–10:30: EMS2014-566

Large-eddy simulations of the internal boundary layer and wake flow within very large wind farms

Björn Witha, Gerald Steinfeld, Detlev Heinemann

ForWind - Center for Wind Energy Research, University of Oldenburg, Germany (bjoern.witha@forwind.de)

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): Ekaterina Batchvarova

11:30–11:45: EMS2014-122

Improvement of a wind farm parameterization for mesoscale models based on a parameter study with the large-eddy simulation model PALM

Gerald Steinfeld, Björn Witha, Martin Dörenkämper,

Lukas Vollmer, Hauke Wurps, Detlev Heinemann
Carl-von-Ossietzky-Universität Oldenburg, ForWind - Zentrum für Windenergieforschung, Energy Meteorology, Oldenburg, Germany (gerald.steinfeld@forwind.de)

11:45–12:00: EMS2014-374

Probabilistic Wind Farm Group Forecasts using Bayesian Model Averaging

Pål Preede Revheim, Hans Georg Beyer

University of Agder, Department of Engineering, Grimstad, Norway (palpr@uia.no)

12:00–12:15: EMS2014-421

The relation between spatial and temporal mesoscale wind fluctuations

Anna Mehrens, Lueder von Bremen, Detlev Heinemann

ForWind, Center for Wind Energy Research, University of Oldenburg, Germany (anna.mehrens@forwind.de)

12:15–12:30: EMS2014-84

Assessing the complementarity of present and future wind power production in different European countries: long term (1961-2050) results from ENSEMBLES regional climate models

Fabio Monforti-Ferrario, Marco Gaetani

Italy (fabio.monforti-ferrario@ec.europa.eu)

12:30–12:45: EMS2014-282

Are two years long enough? - The effect of the length of numerical model data on wind resource assessments

Jessica Standen, Karen Walter, Clive Wilson, Alasdair Skea

Met Office, Exeter, UK

(jessica.standen@metoffice.gov.uk)

12:45–13:00: EMS2014-315

The regional impacts of mid-term wind power in several deployment scenarios

Robert Vautard, Isabelle Tobin, Sonia Jerez, Françoise Thais

LSCE/IPSL laboratoire CEA/CNRS/UVSQ

13:00 Lunch Break

14:00–16:00

Chairperson(s): Sven-Erik Gryning

14:00–14:15: EMS2014-88

The New European Wind Atlas
Erik Lundtang Petersen, Hans E. Jørgensen, Jakob Mann, Ib Troen
 DTU Wind Energy, Technical University of Denmark
 Roskilde, Denmark (erlu@dtu.dk)

14:15–14:30: EMS2014-425

Comparison of measure-correlate-predict approaches
David Hanslian, Jiří Hošek
 Institute of Atmospheric Physics, Academy of Sciences,
 Prague, Czech Republic, Faculty of Mathematics and
 Physics, Charles University, Prague, Czech Republic

14:30–14:45: EMS2014-445

Assessing climate change impacts on European wind
 power production
Isabelle Tobin, Robert Vautard, Sonia Jerez,
 Françoise Thais, Michel Déqué, Sven Kotlarski,
 Cathrine Fox Maule, Erik Van Meijgaard, Grigory
 Nikulin, Claas Teichmann, Thomas Noël
 LSCE/IPSL/CNRS, Gif sur Yvette, France
 (isabelle.tobin@lscce.ipsl.fr)

14:45–15:00: EMS2014-212

Simulating the Future Wind Energy Resource of Ireland
 using a Multi Model Ensemble Approach
Paul Nolan, Alastair McKinstry
 Irish Centre for High-End Computing (ICHEC)

15:00–15:15: EMS2014-435

The variability of energy demand and supply in space
 and time: a semi-operational prototype to forecast
 climate from weeks to months ahead
 Francisco J. Doblas-Reyes, **Melanie Davis**, Verónica
 Torralba Fernandez, Nube Gonzalez-Reviriego
 Institut Català de Ciències del Clima (IC3), Barcelona,
 Spain

15:15–15:30: EMS2014-129

A climate change methodology for the UK gas industry
Edward Pope, Kate Brown, Justin Krijnen, Helen
 Hanlon
 UK Met Office, Hadley Centre, United Kingdom
 (edward.pope@metoffice.gov.uk)

15:30–15:45: EMS2014-360

Estimating substitution and climatic effects of forest
 biomass production and utilization for the entire logistic
 chain: life cycle perspective
Ashrafal Alam, Antti Kilpeläinen, Seppo Kellomäki
 University of Eastern Finland, School of Forest
 Sciences, Finland (ashrafal.alam@uef.fi)

15:45–16:00: EMS2014-342

Optimized significant wave height forecasts and their
 benefit on the workability at Offshore Wind Farms
Thomas Kanefendt, Arne Wessel, Britta Mey
 Fraunhofer Institute for Wind Energy and Energy
 System Technology IWES, Division Energy Economy
 and Grid Operation, Germany
 (thomas.kanefendt@iwes.fraunhofer.de)

END OF ORAL PROGRAMME ASI13

Side Meetings & Workshops

SIM4 Tips for effectively dealing with the media – training workshop (public, registration requested)

Convener: Tanja Cegnar
Lecture Room: Aquarius

For details see page17.

08:30–13:00

SIM14 ESSL Executive Board Meeting (by invitation only)

Convener: Alois M. Holzer
Lecture Room: Quadrant

12:00–15:00

SIM9 The future of the EMS Annual Meetings: how to organise a conference with reduced carbon foot print (public)

Conveners: Renate Hagedorn; Martina Junge
Lecture Room: Aquarius

For details see page17.

14:00–16:00

SIM10 Harry Otten Board Meeting (by invitation only)

Convener: Dennis Schulze
Lecture Room: Quadrant

16:00–18:00

SIM13 ESSL General Assembly (by invitation only)

Convener: Alois M. Holzer
Lecture Room: Aquarius

17:30–19:00

European Conference on Applied Climatology (ECAC)

Monitoring climate and climate change

MC3 Historical climatology and paleoclimatology

Convener: R. Brázdil
Co-Conveners: Ulf Buentgen; Fidel González-Rouco; Ricardo García-Herrera
Poster Area: Meridian Left Back
Chairperson(s): R. Brázdil
Attendance Time: 16:00–17:00

LB1: EMS2014-173

Reconstruction of long-term instrumental series. Rainfall data series for Barcelona (NE Spain), 1786-2013

Mariano Barriendos, Marc Prohom, Arturo Sanchez-Lorenzo
 Department of Modern History, University of Barcelona, Barcelona, Spain (barriendos@telefonica.net)

LB2: EMS2014-287

Climatic characteristics of floods from the PREDIFLOOD Project Database, Catalonia (NE Iberian Peninsula), AD1033-2013

Mariano Barriendos, Josep Carles Balasch, Jordi Mazon, David Pino, Josep Lluís Ruiz-Bellet, Jordi Tuset
 Department of Modern History, University of Barcelona, Barcelona, Spain (barriendos@telefonica.net)

LB3: EMS2014-298

Reconstructed seasonal precipitation in Portugal vs. large-scale teleconnections

João Andrade Santos, Maria Fátima Carneiro, Maria João Alcoforado
 Centre for the Research and Technology of Agro-environmental and Biological Sciences, CITAB, Universidade de Trás-os-Montes e Alto Douro, UTAD, 5001-801 Vila Real, Portugal (jsantos@utad.pt)

LB4: EMS2014-62

Presentation of the goals and first results of the Swiss National Science Foundation research project

Oliver Wetter
 University of Berne, Institute of History, WSU, Bern, Switzerland (oliver.wetter@hist.unibe.ch)

LB5: EMS2014-396

Paleoclimate reconstructions based on combined annual time series from lake sediments, tree rings and ice core in Altai Mountains (South Siberia)

Ivan Kalugin, Andrey Darin, Valeriy Babich, Tatyana Markovich
 Institute of Geology and Mineralogy of SB RAS, Russian Federation (ikalugin@igm.nsc.ru)

END OF POSTER PROGRAMME MC3

Research and services for socio-economic sectors

SE1/CE6 Creating national and regional climate services in Europe through partnerships (co-organized)

Convener: Clare Goodess
Co-Conveners: Mark McCarthy; Tanja Cegnar; Ge Verver; Christof Appenzeller
Poster Area: Meridian Left Back
Chairperson(s): Clare Goodess
Attendance Time: 16:00–17:00

LB29: EMS2014-44

The international North Sea Region Climate Change Assessment (NOSCCA) - an analysis of the scientific legitimate knowledge for science and decision making.

Markus Quante, Franciscus Colijn
 Helmholtz-Zentrum Geesthacht, Geesthacht, Germany (markus.quante@hzg.de)

LB30: EMS2014-126

Inter-seasonal and inter-variable dependencies in multi-model projections: lessons learnt from the CH2011 climate change scenarios

Andreas Fischer, Elias Zubler, Mark Liniger, Christof Appenzeller
 Federal Office of Meteorology and Climatology MeteoSwiss, Climate Services, Zurich, Switzerland (andreas.fischer@meteoswiss.ch)

LB31: EMS2014-427

Impact data in weather & climate services

Pauli Jokinen, Hilppa Gregow
 Finnish Meteorological Institute/Climate Service Centre, Finland (pauli.jokinen@fmi.fi)

END OF POSTER PROGRAMME SE1/CE6

SE5 GFCS: services developed for (climate) vulnerable areas with a focus on non-European regions.

Convener: Filipe Lúcio
Co-Conveners: Aryan F.V. van Engelen
Poster Area: Meridian Left Back
Chairperson(s): Filipe Lucio and Aryan F.V. van Engelen
Attendance Time: 10:30–11:30

LB13: EMS2014-515

Climate Influences on Infectious Diseases in Nigeria, West Africa

Auwal Abdussalam, John Thornes, **Gregor Leckebusch**
 University of Birmingham, Geography, Earth and Environmental Science, Birmingham, United Kingdom (afa086@bham.ac.uk)

LB14: EMS2014-278

Climatic conditions of automobile transport operation in Moscow region

Alexandra Shiryaeva

Institute of Geography, Russian Academy of Science, Climatology, Russian Federation
(alexandra.v.shiryaeva@gmail.com)

END OF POSTER PROGRAMME SE5**Communication and Education****CE2 Adaptation to climate change**

Convener: André Jol

Co-Convener: Tanja Cegnar

Poster Area: Meridian Right Front

Chairperson(s): A. Jol

Attendance Time: 10:30–11:30

RF1: EMS2014-355

Spatially-resolved scenarios of photovoltaic and wind power targets for accurate estimates of production

Sonia Jerez, Françoise Thais, Isabelle Tobin, Martin Wild, Augustin Colette, Pascal Yiou, Robert Vautard
Laboratoire des Sciences du Climat et de l'Environnement (LSCE), IPSL, CEA/CNRS/UVSQ, 91191 Gif sur Yvette, France, Department of Physics, University of Murcia, 30100 Murcia, Spain

END OF POSTER PROGRAMME CE2**Numerical Weather Prediction****NWP1 Dynamics and predictability of high impact weather in operational forecasting, including nowcasting**

Convener: Tim Hewson

Co-Convener: Suzanne Gray

Poster Area: Meridian Left Back

Chairperson(s): Tim Hewson

Attendance Time: 10:30–11:30

LB15: EMS2014-242

Quantitative expression of uncertainty in nowcasting heavy convective precipitation in Central Europe by extrapolation methods

Jan Mejsnar, Zbynek Sokol, Petr Pesice
Charles University, Faculty of Mathematics and Physics, Department of Meteorology and environmental protection, Prague, Czech Republic
(jungleduch@centrum.cz), Institute of atmospheric physics ASCR, Prague, Czech Republic

LB16: EMS2014-599

Lightning climatology over Greece

Elissavet Galanaki, Konstantinos Lagouvardos,
Vassiliki Kotroni

National Observatory of Athens, Institute of Environmental Research and Sustainable Development, Athens, Greece (kotroni@noa.gr)

LB17: EMS2014-105

Is the land surface - atmosphere feedback as important for predictability of convective systems in the Sahel region as the dynamical forcing?

Vera Maurer, Leonhard Gantner, Norbert Kalthoff
Institut für Meteorologie und Klimaforschung (IMK-TRO, KIT), Karlsruhe, Germany (vera.maurer@kit.edu)

LB18: EMS2014-525

Physical-statistical analyses and prognostic methodologies of foggy conditions at the Absheron peninsula

Nazim Huseynov, Hajar Mammadova, Bahruz Malikov
Azerbaijan National Academy of Aviation

END OF POSTER PROGRAMME NWP1**NWP5/ASI14 Mountain Meteorology (co-organized)**

Convener: Michael Sprenger

Co-Conveners: Jürg Schmidli; Radmila Brojková

Poster Area: Meridian Left Front

Chairperson(s): Michael Sprenger

Attendance Time: 16:00–17:00

LF28: EMS2014-240

Dynamical statistical forecast of Alpine snow amounts for the safety of people, infrastructure and transport
Reto Stauffer, Jakob Messner, Achim Zeileis, Georg J. Mayr

University of Innsbruck, Institute of Meteorology and Geophysics, Innsbruck, Austria
(reto.stauffer@uibk.ac.at)

LF29: EMS2014-19

Evaluation of the ability of progressively finer MNWP models to reproduce wind regimes in complex terrain
Mario Hrstinski, Kristian Horvath, Iris Odak, Stjepan Ivatek Šahdan, Alica Bajić

Meteorological and Hydrological Service, Zagreb, Croatia

LF30: EMS2014-161

Lagrangian analysis of foehn air warming in a dry and a moist event over the Swiss Alps

Michael Sprenger, Annette Miltenberger, Silvia Reynolds

ETH Zurich, Atmospheric Science, Zurich, Switzerland
(michael.sprenger@env.ethz.ch)

LF31: EMS2014-327

Variations of flow characteristics upstream and downstream of Arizona's Meteor Crater basin during downslope-windstorm-type flows

Bianca Adler, Norbert Kalthoff, C. David Whiteman, Sebastian W. Hoch, Manuela Lehner
Institut für Meteorologie und Klimaforschung (IMK-TRO), KIT, Karlsruhe, Germany

The Atmospheric System and its Interactions

ASI4 Coastal meteorology and oceanography

Convener: Mario Marcello Miglietta

Co-Conveners: Silvio Gualdi; Anna Maria Sempreviva; Manel Grifoll

Poster Area: Meridian Right Front

Chairperson(s): M. M. Miglietta

Attendance Time: 10:30–11:30

RF2: EMS2014-17

Real time weather forecasting in southern Italy: a detailed verification

Luca Tiriolo, Rosa Claudia Torcasio, Stefania Montesanti, Anna Maria Sempreviva, Claudia Roberta Calidonna, Stefano Federico

Institute of Atmospheric Sciences and Climate of the Italian National Council of Research, ISAC-CNR, UOS of Lamezia Terme, zona Industriale Comparto 15, 88046 Lamezia Terme, Italy (l.tiriolo@isac.cnr.it, rc.torcasio@isac.cnr.it, s.montesanti@isac.cnr.it)

RF3: EMS2014-57

Large-Eddy Simulation of sea-breeze in an idealised peninsular site

Umberto Rizza, **Mario Marcello Miglietta**

ISAC-CNR, Lecce, Italy (m.miglietta@isac.cnr.it)

RF4: EMS2014-95

An operational system for the storm surge forecast in the Adriatic Sea (Italy): results and evaluations

Elisa Coraci, Marco Bajo, Marco Casaioli, Maurizio Ferla, Stefano Mariani, Georg Umgieser

Institute for Environmental Protection and Research (ISPRA), Rome, Italy

RF5: EMS2014-110

Spatial wind heterogeneity in coastal areas and its effects on water circulation (The Alfacs Bay case, Ebre Delta)

Pablo Cerralbo, Manel Grifoll, Manuel Espino
Maritime Engineering Laboratory (LIM), Universitat Politècnica de Catalunya, Barcelona, Spain
(pablo.cerralbo@upc.edu)

RF6: EMS2014-254

Climate evaluation of storminess at the German Bight and the southwestern coast of the Baltic Sea

Dörte Röhrbein, Birger Tinz, Hans von Storch, Lydia Gates

German Meteorological Service, Deutscher Wetterdienst, Hamburg, Germany
(doerte.roehrbein@dwd.de)

RF7: EMS2014-296

Coupling of COSMO/CLM and NEMO with focus on North and Baltic seas

Jennifer Brauch, **Barbara Früh**, Trang Van Pham, Bodo Ahrens
Deutscher Wetterdienst, Klima und Umweltberatung, Offenbach, Germany (barbara.fruh@dwd.de)

RF8: EMS2014-354

Evaluation of ocean forecast system based on the Regional Ocean Modeling System (ROMS) in Korea
Meteorological Administration

JaeYoung Byon, Hyeongjun Jo, Pil-Hun Chang, Jihye Kim

Republic of Korea (byonjy@kma.go.kr)

RF9: EMS2014-368

The Spatial Characteristics Classification of Ocean Weather around the Korean Peninsula using Cluster Analysis

Goeun Son, Pil-Hun Chang, Jae-Young Byon
Global Environment System Research Division,
National Institute of Meteorological Research, Republic of Korea (geson@korea.kr)

RF10: EMS2014-428

Analysis of 2014 winter patterns and its effects in Basque Country Coastal Area

Joseba Egaña, Santiago Gaztelumendi, Roberto Hernandez

TECNALIA - Meteo Area, Basque Meteorology Agency (EUSKALMET)

RF11: EMS2014-450

Analysis of coastal-maritime adverse events in Basque Country

Santiago Gaztelumendi, Joseba Egaña, Ivan R. Gelpi, Sheila Carreño, Manuel Gonzalez, Pedro Liria, Ganix Esnaola, Jose Antonio Aranda

Basque Meteorology Agency (EUSKALMET),
TECNALIA - Meteorology Area

RF12: EMS2014-612

Comparative analysis of wind climate and breeze circulation at Ahtopol (Bulgarian Black sea coast) and at Lamezia Terme (Calabria, Italy)

Luca Tiriolo, Damyan Barantiev, Claudia Calidonna, Daniel Gulli, Anna Maria Sempreviva, **Ekaterina Batchvarova**

National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences, Bulgaria, Wind Energy Department, Technical University of Denmark, Roskilde, Denmark.

RF13: EMS2014-655

Recent Trends of the North Atlantic Wave Heights from the ERA-Interim Reanalysis

Alvaro Semedo, Mariana Bernardino, Hector Cabrera Bermejo, Paulo Martinho, Nadia Salvação
Escola Naval-CINAV, Base Naval de Lisboa, Alfeite, 2810-001 Almada, Portugal, milho.semedo@marinha.pt,
Department of Earth Sciences, Uppsala University, Uppsala, Sweden

RF14: EMS2014-656

Wind sea and swell waves in the Baltic Sea

Alvaro Semedo, Roberto Vettor, Øyvind Breivik, Andreas Sterl, Magnar Reistad, Hector Cabrera Bermejo, Paulo Martinho, Mariana Bernardino, Nadia Salvação
Escola Naval-CINAV, Base Naval de Lisboa, Alfeite, 2810-001 Almada, Portugal, milho.semedo@marinha.pt,
Royal Netherlands Meteorological Institute (KNMI), De Bilt, Netherlands

END OF POSTER PROGRAMME ASI4

ASI7 Atmospheric hazards

Convener: Fulvio Stel
Co-Convener: Dario Giaiotti
Poster Area: Meridian Right Front
Chairperson(s): Fulvio Stel
Attendance Time: 16:00–17:00

RF7: EMS2014-390

The Spatiotemporal Variability and the Causes in Atmospheric Circulation of the Latest Frost Occurrences in Republic of Korea
Jin-Ah Kim, Hi-Ryong Byun, Kyu-Rang Kim, Nam-Hee Kim, Chang-Bum Cho, Byoung-Choel Choi
 National Institute of Meteorological Research, Seogwipo-si, Jeju-do, Republic of Korea

RF8: EMS2014-554

The seasonality of flood and meteorological anomalies, case study of the upper Elbe basin
Jana Smidova, Miloslav Müller
 Charles University in Prague, Faculty of Science, Czech Republic

RF9: EMS2014-537

Using data mining methods in forecasting waterspouts over south Aegean Sea, Greece
 Nikolaos C. Kamperakis, **Panagiotis T. Nastos**, Ioannis T. Matsangouras
 Laboratory of Climatology & Atmospheric Environment, Faculty of Geology & Geoenvironment, University of Athens, University Campus, Greece
 (n.kamperakis@gmail.com)

RF10: EMS2014-36

Waterspout cloud top detection using MSG SEVIRI Infrared brightness temperature over north Ionian Sea
Kyriakoula Papachristopoulou, Ioannis T. Matsangouras, Panagiotis T. Nastos
 Department of Environmental Physics and Meteorology, Faculty of Physics, National and Kapodestria University of Athens, Panepistimiopolis GR-15784 Athens, Greece (kpapachr@phys.uoa.gr), Laboratory of Climatology and Atmospheric Environment, Faculty of Geology and Geoenvironment, National and Kapodestrian University of Athens, Panepistimiopolis GR-15784 Athens, Greece

RF11: EMS2014-283

Classification of stratiform and convective precipitation over Athens area, Greece
 Elissavet Feloni, **Panagiotis Nastos**, Evangelos Baltas, Ioannis Matsangouras
 Laboratory of Climatology and Atmospheric Environment, Faculty of Geology and Geoenvironment, University of Athens, University Campus 157 84, Athens, Greece

END OF POSTER PROGRAMME ASI7

ASI13 Energy Meteorology

Convener: Sven-Erik Gryning
Co-Conveners: Ekaterina Batchvarova; Marion Schroedter-Homscheidt; Lucien Wald
Poster Area: Meridian Right Back
Chairperson(s): Marion Schroedter-Homscheidt
Attendance Time: 10:30–11:30

RB20: EMS2014-402

Evaluating and improving probabilistic wind forecasts of the high-resolution ensemble system COSMO-DE-EPS
Tobias Heppelmann, Zied Ben Bouallegue, Susanne Theis
 Deutscher Wetterdienst, Offenbach, Germany
 (tobias.heppelmann@dwd.de)

RB21: EMS2014-539

Resolution Evaluation of the WRF Model with WASP comparisons for the Short Term Wind Energy Prediction System of Turkey
Nur Goktepe, Erkan Yilmaz, Fahri Mert Sayinta, Emel Unal, Elcin Tan, Yurdanur Sezginer Unal, Sukran Sibel Mentis, Selahattin Incecik
 Department of Meteorological Engineering, Istanbul Technical University, Istanbul, Turkey
 (goktepenur@gmail.com)

RB22: EMS2014-538

Resolution Evaluation of the WRF Model with WindSim comparisons for the Short Term Wind Energy Prediction System of Turkey
Erkan Yilmaz, Nur Goktepe, Fahri Mert Sayinta, Emel Unal, Elcin Tan, Yurdanur Sezginer Unal, Sukran Sibel Mentis, Selahattin Incecik
 Department of Meteorological Engineering, Istanbul Technical University, Istanbul, Turkey
 (erkany12@gmail.com)

RB23: EMS2014-124

How do uncertainties of numerical weather forecasts propagate into power predictions for offshore wind farms?
 Sonja Drüke, Nick Janssen, **Gerald Steinfeld**
 Carl-von-Ossietzky-Universität Oldenburg, ForWind - Zentrum für Windenergieforschung, Energy Meteorology, Oldenburg, Germany
 (gerald.steinfeld@forwind.de)

RB24: EMS2014-303

An assessment of onshore wind energy potential in Iberia under climate change
 Carlos Rochinha, **João A. Santos**, Margarida L. R. Liberato, Joaquim G. Pinto
 Centre for the Research and Technology of Agro-Environmental and Biological Sciences, Universidade de Trás-os-Montes e Alto Douro, UTAD, 5000-801 Vila Real, Portugal, jsantos@utad.pt

RB25: EMS2014-395

A Comparative Study of the WRF and Observation on Ramp event in South-western Coastal Region over the Korean Peninsula

Beom-Keun Seo, Yoon-Jin Lim, Sin-Young Park, Nam-Hee Kim, Byung-Cheol Choi
National Institute of Meteorological Research, Applied Meteorological Research Division, Seogwipo-si, Jeju-do, Republic of Korea (sbkblue@gmail.com)

RB26: EMS2014-187

Finnish Icing Atlas - sensitivity of weather model parameters on icing

Karoliina Hämäläinen
Finnish meteorological institute, Helsinki, Finland (karoliina.hamalainen@fmi.fi)

RB27: EMS2014-452

Modelling sound propagation from wind turbines using a ray-tracing model coupled to a mesoscale model

Matthias Mohr, Olof Öhlund, Conny Larsson, Hans Bergström
Uppsala University, Air, Water & Landscape Science, Dept. of Earth Sciences, Uppsala, Sweden (matthias.mohr@geo.uu.se)

END OF POSTER PROGRAMME ASI13

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Thursday, 09 October 2014						
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius
08:30–10:30	UC4/SE3: Global and regional reanalyses	MC2: Spatial Climatology	ASI3: Formulation, validation and parameterisation of small-scale processes	ASI10/MC5: Urban Climate	ASI12/MC4: Phenology and agrometeorology	SIM7: RCC Network (RA VI) Workshop
10:30–11:30	Poster Session & Coffee Break Foyer and Room Meridian <i>Poster authors in attendance time for the following sessions:</i> ECAC programme group: MC1 (LF1 - LF15), MC2 (LF16 - LF27), UC4/SE3 (LB19 - LB28) CE programme group: CE3 (RF1 + RF2) ASI programme group: ASI12/MC4 (RF24 - RF27), ASI10/MC5 (RF15 - RF23), ASI1 (RF3 - RF6), ASI8 (RF12 - RF14)					
11:30–13:00	UC4/SE3	MC2	ASI3	ASI10/MC5	ASI9: Interfacing hydrological and meteorological models	SIM7
13:00	Lunch Break					
14:00–16:00	UC3: Climate forecast verification	MC1: Climate monitoring; data rescue, management, quality & homogenisation	ASI8: Boundary-layer physics and parameterisations in weather and climate model	CE5: How I became a scientist	ASI1: Dynamical meteorology including Young Scientist Award Lecture	SIM12: JPI climate meeting on user-provider interaction (public)
16:00	Coffee Break					
16:30–18:30	UC2: Climate prediction and scenarios on decadal to centennial timescales	MC1	ASI6: Atmospheric measurements: Concepts, new technologies and scientific progress	CE3: Communication of uncertainty in seasonal prediction and climate projection	ASI5/CE7: Biometeorology	
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius
20:00 Conference Dinner (19:00 Departure at Clarion Congress Hotel) Velká Klášterní Restaurace (Strahovské nádvoří 302, 118 00 Praha 1, www.klasternirestaurace.cz/en) by registration only						

In the detailed daily programme (on pages 63 to 78) the related ECAC, ASI, CE and NWP sessions are listed in the following order: MC1, MC2, UC2, UC3, UC4/SE3, CE3, CE5, ASI1, ASI3, ASI5/CE7, ASI6, ASI8, ASI9, ASI10/MC5, ASI12/MC4.

European Conference on Applied Climatology (ECAC)

Monitoring climate and climate change

MC1 Climate monitoring; data rescue, management, quality and homogenization

Convener: Manola Brunet-India

Co-Conveners: Ingeborg Auer; Victor Venema; Dan Hollis; Hermann Mächel

Lecture Room: Nadir

14:00–16:00

Chairperson(s): Inge Auer and Victor Venema

Time-series Quality Control and Homogenisation

14:00–14:15: EMS2014-195

The International Surface Temperature Initiative: an overview

Peter Thorne

NERSC, Norway (peter.thorne@nersc.no)

14:15–14:30: EMS2014-15

A New Homogenized Climate Database for the Pyrenees (1950-2012)

Marc J. Prohom, Jordi Cunillera, Roberto Serrano-Notivoli, José María Cuadrat, Ernesto Tejedor-Vargas, Miguel Ángel Saz-Sánchez, Pere Esteban, Jean-Michel Soubeyroux, Nathalie Deaux
 Meteorological Service of Catalonia, Area of Climatology, Barcelona, Catalonia, Spain
 (mprohom@meteo.cat)

14:30–14:45: EMS2014-23

The contribution of the homogenization in the extreme precipitation events

Fiorella Acquotta, Simona Fratianni, Victor Venema
 University of Turin, Earth Science, Turin, Italy
 (fiorella.acquotta@unito.it)

14:45–15:00: EMS2014-93

Reliability of homogenisation corrections in Slovenian climate time series in period 1961-2011

Gregor Vertačnik

Slovenian Environment Agency, Slovenia
 (gregor.vertacnik@gov.si)

15:00–15:15: EMS2014-266

Local and microclimatic variations around long term meteorological stations in small urban areas

Jenny Lindén, Sue Grimmond

Department of Geography, Johannes-Gutenberg University, Mainz, Germany

15:15–15:30: EMS2014-285

Homogenization, trends and urban effects on the Spanish temperature series

José A. Guijarro

AEMET (State Meteorological Agency), Balearic Islands Office, Palma de Mallorca, Spain
 (jguijarro@aemet.es)

15:30–15:45: EMS2014-550

Homogenization in Norway

Elin Lundstad, Herdis Motrøen Gjelten

Norwegian Meteorological Institute, Meteorology and Climate Department, Oslo, Norway (elinl@met.no)

15:45–16:00: EMS2014-356

NORDHOM - Nordic collaboration on establishing long-term homogeneous climate data records

Erik Engström, Thomas Carlund, Achim Drebs, Juha Aalto, Mikko Laapas, Elin Lundstad, Herdis Motrøen Gjelten, Kairi Vint

Swedish Meteorological and Hydrological Institute, (erik.engstrom@smhi.se)

16:00 Coffee Break

16:30–18:30

Chairperson(s): Dan Hollis and Manola Brunet

16:30–16:45: EMS2014-345

Homogenization of Swedish precipitation and temperature data

Erik Engström, Thomas Carlund

Swedish Meteorological and Hydrological Institute, Climate Communication, Norrköping, Sweden
 (erik.engstrom@smhi.se)

16:45–17:00: EMS2014-418

The joint influence of break and noise variance on the break detection capability in time series homogenization

Ralf Lindau, Victor Venema

University of Bonn, Meteorological institute, Bonn, Germany (victor.venema@uni-bonn.de)

17:00–17:15: EMS2014-458

Homogenization of wind speed and direction series together

Tamás Szentimrey, Mónika Lakatos, Zita Bihari, Sándor Szalai

Hungarian Meteorological Service, Budapest, Hungary
 (szentimrey.t@met.hu)

Climate Monitoring

17:15–17:30: EMS2014-179

Temporal Trends in Sunshine Duration over Italy (1936-2013)

Veronica Manara, Maria Carmen Beltrano, Michele Brunetti, Maurizio Maugeri, Claudia Simolo, Simona Sorrenti

Università degli Studi di Milano, Italy
 (veronica.manara@unimi.it)

17:30–17:45: EMS2014-276

Climate Analysis Tools - An operational environment for climate products
 Rebecca Hiller, **Rebekka Posselt**, Beat Gätzi, Sophie Fukutome, Mark A. Liniger
 Federal Office of Meteorology and Climate, Switzerland
 (rebecca.hiller@meteoswiss.ch)

17:45–18:00: EMS2014-393

New global short-wave radiation climatology from VOS based on highly accurate parameterization: interannual variability and the impact of cloud cover
Marina Aleksandrova, Alexey Sinitsyn, Sergey Gulev
 P.P.Shirshov Institute of Oceanology, RAS, SAIL,
 Moscow, Russian Federation (sinitsyn@sail.msk.ru)

18:00–18:15: EMS2014-463

Study of integrated water vapour trends and variability using ground-based GPS data and climate models
Olivier Bock, Samuel Nahmani, Sophie Bastin, Frederic Hourdin
 IGN, LAREG, Univ Paris Diderot, Sorbonne Paris Cité,
 Paris, France (olivier.bock@ign.fr)

18:15–18:30: EMS2014-523

Climate Watch in RA VI - a joint Climate Service of the Regional Climate Centre Network (RCC)
Stefan Rösner, Hermann Mächel, Peter Bissolli, Karsten Friedrich, Helga Nitsche, Milan Dacic, Goran Pejanovic, Katarina Stefanovic, Jean-Pierre Ceron, Dmitry Kiktev, Mónika Lakatos, Tamás Kovács, Hans Olav Hygen
 Deutscher Wetterdienst, Offenbach, Germany
 (rcc.cm@dwd.de)

END OF ORAL PROGRAMME MC1**MC2 Spatial Climatology**

Convener: Ole Einar Tveito

Co-Conveners: Mojca Dolinar; Christoph Frei

Lecture Room: Nadir

08:30–10:30

Chairperson(s): Ole Einar Tveito

08:30–08:45: EMS2014-334

A new homogenous radiation climate data record
Richard Müller, Uwe Pfeifroth, Christine Träger-Chatterjee, Jörg Trentmann
 Deutscher Wetterdienst, KU22, Satellite Application Facility on Climate Monitoring, Offenbach, Germany
 (richard.mueller@dwd.de)

08:45–09:00: EMS2014-183

Sicily monthly high resolution solar radiation climatologies and comparison with future projections
Veronica Manara, Michele Brunetti, Maurizio Maugeri, Luigi Pasotti, Claudia Simolo
 Università degli Studi di Milano, Italy
 (veronica.manara@unimi.it)

09:00–09:15: EMS2014-290

An algorithm for integrating satellite precipitation estimates with in situ precipitation data on a pentad time scale
 Achan Lin, **Xiaolan L. Wang**
 Climate Research Division, Science and Technology Branch, Environment Canada, Toronto, Canada
 (xiaolan.wang@ec.gc.ca)

09:15–09:30: EMS2014-474

Investigation of modelling results obtained by MISH interpolation method in the CARPATCLIM project
Zita Bihari, Tamás Szentimrey, Mónika Lakatos, Sándor Szalai
 Hungarian Meteorological Service, Budapest, Hungary
 (bihari.z@met.hu)

09:30–10:00: EMS2014-527

Spatial interpolation of hourly cumulated precipitation in Norway (solicited)
Cristian Lussana, Ole Einar Tveito
 Norwegian Meteorological Institute, Meteorology and Climate Department - Division for Climate Services - Section for Data and Spatial Analysis, Oslo, Norway
 (cristianl@met.no)

10:00–10:30: Introduction to the poster session**10:30 Coffee Break & Poster Sessions****11:30–13:00**

Chairperson(s): Christoph Frei

11:30–12:00: EMS2014-479

Daily temperature grids for Austria - concept, creation and application (solicited)
Johann Hiebl
 Central Institute for Meteorology and Geodynamics, Austria (johann.hiebl@zamg.ac.at)

12:00–12:15: EMS2014-364

Variations of mesoscale precipitation in the Alps 1901-2008: Maintaining long-term consistency despite network variations
David Masson, Christoph Frei
 Federal Office of Meteorology and Climatology MeteoSwiss, Zürich, Switzerland
 (christoph.frei@meteoswiss.ch)

12:15–12:30: EMS2014-1

Quantifying topoclimatic driving forces of near surface temperature variations in heterogeneous environments
Lars Gerlitz, Benjamin Bechtel, Langkamp Thomas, Böhner Jürgen
 Institute of Geography, University of Hamburg, Germany (lars.gerlitz@uni-hamburg.de)

12:30–12:45: EMS2014-535

Developing climate indicators from gridded data.
Ole Einar Tveito, Hans Olav Hygen
 Norwegian Meteorological Institute, Climatology Division, Oslo, Norway (ole.einar.tveito@met.no)

12:45–13:00: Discussion

What will be the role of observation gridding in the future? Challenges, development trends and user needs

END OF ORAL PROGRAMME MC2

Understanding processes and climate change

UC2 Climate prediction and scenarios on decadal to centennial timescales

Convener: Christof Appenzeller

Co-Conveners: Clare Goodess; Jean-Pierre Céron; Martin Widmann

Lecture Room: Zenit

16:30–18:30

16:30–17:00: EMS2014-613

COST action VALUE: Validating and integrating downscaling methods for climate change research
Douglas Maraun, **Martin Widmann**, Rasmus E. Benestad, Richard E. Chandler, Jose M. Gutierrez, Elke Hertig, Radan Huth, Sven Kotlarski, Joanna Wibig
University of Birmingham, School of Geography, Earth and Environmental Sciences

17:00–17:15: EMS2014-584

Comparison of stochastic MOS corrections for GCM and RCM simulated precipitation
Martin Widmann, Jonathan Eden, Douglas Maraun, Mathieu Vrac
University of Birmingham, School of Geography, Earth and Environmental Sciences, Birmingham, United Kingdom (m.widmann@bham.ac.uk)

17:15–17:30: EMS2014-645

Downscaling for extreme and non-extreme daily precipitation using GCM model output statistics
Jonathan Eden, Martin Widmann, Douglas Maraun, Mathieu Vrac
School of Geography, Earth and Environmental Sciences, University of Birmingham, Birmingham, UK

17:30–17:45: EMS2014-48

Change points in statistical downscaling relationships of the large-scale atmospheric circulation in the North Atlantic-European domain and precipitation in the Mediterranean area
Elke Hertig, Jucundus Jacobeit
University of Augsburg, Physical Geography, Augsburg, Germany (elke.hertig@geo.uni-augsburg.de)

17:45–18:00: EMS2014-193

Robust climate scenarios for sites with sparse observations: A two-step empirical-statistical bias correction approach
Jan Rajczak, Sven Kotlarski, Nadine Salzmann, Christoph Schär
Institute for Atmospheric and Climate Science, ETH Zurich, Zurich, Switzerland

18:00–18:15: EMS2014-181

Enhancing local climate projections for Switzerland: Possibilities and limitations of bias correction techniques
Martin Ivanov, Sven Kotlarski, Christoph Schär
ETH Zürich, Zürich, Switzerland

18:15–18:30: EMS2014-175

Stochastic modelling of future daily weather consistent with RCM projections and the space-time covariance of present-day observations

Denise E. Keller, Andreas M. Fischer, Christoph Frei, Mark A. Liniger, Christof Appenzeller, Reto Knutti
Federal Office of Meteorology and Climatology MeteoSwiss, Zurich, Switzerland
(Denise.Keller@meteoswiss.ch), Center for Climate Systems Modeling (C2SM), ETH Zurich, Switzerland

ORAL PROGRAMME UC2 continues on Friday

UC3 Climate forecast verification

Convener: Pertti Nurmi

Co-Conveners: Caio Coelho

Lecture Room: Zenit

14:00–16:00

Chairperson(s): Pertti Nurmi

14:00–14:15: EMS2014-486

Estimating seasonally varying thresholds for seasonal predictions of climate indices
Irina Mahlstein, **Mark Liniger**
Federal Office of Meteorology and Climatology MeteoSwiss, Climate Division, Zuerich, Switzerland
(mark.liniger@meteoswiss.ch)

14:15–14:30: EMS2014-608

Advanced Climate and Regional Model Validation for Societal Applications
Barbara Brown, **Eric Gilleland**, Tressa Fowler, Caspar Ammann, Lawrence Buja, William Gutowski, Laurina Kaatz, Abayomi Abatan, John Halley Gotway
NCAR, RAL, Boulder, United States (bgb@ucar.edu)

14:30–14:45: EMS2014-288

Verification of long range weather forecasts in Croatia
Lovro Kalin, Zoran Vakula
Meteorological and Hydrological Service of Croatia, DHMZ, Zagreb, Croatia (kalin@cirus.dhz.hr)

14:45–15:00: EMS2014-226

The verification of seasonal precipitation forecasts for early warning in Zambia and Malawi
Otto Hyvärinen, Ari Venäläinen, Karoliina Pilli-Sihvola, Hilppa Gregow
Finnish Meteorological Institute, Climate Service Centre, Helsinki, Finland (otto.hyvarinen@fmi.fi)

15:00–15:15: EMS2014-606

Verification of seasonal-to-decadal ensemble forecasts
Stefan Siegert
United Kingdom (s.siegert@exeter.ac.uk)

15:15–15:30: EMS2014-210

Does a climate model represent the climate? Attempts at a quantification using verification measures
Arne Spekat, Wolfgang Enke
Climate and Environment Consulting Potsdam GmbH, Potsdam, Germany (arne.spekat@cec-potsdam.de)

15:30–15:45: EMS2014-159

Probabilistic evaluation of the MiKlip decadal prediction system

Sophie Stolzenberger, Rita Glowienka-Hense, Thomas Spangehl, Marc Schröder, Andreas Hense
University of Bonn, Bonn, Germany

15:45–16:00: EMS2014-182

The representation of the 1990s warming of the North Atlantic subpolar gyre in the MiKlip decadal prediction system

Ines Höschel, Ulrich Cubasch
FU Berlin, Institute for Meteorology, Berlin, Germany
(ines.hoeschel@met.fu-berlin.de)

END OF ORAL PROGRAMME UC3**UC4/SE3 Global and regional reanalyses (co-organized)**

Convener: A. K. Kaiser-Weiss

Co-Conveners: Leopold Haimberger; Ge Verver; Dick Dee; Eric Bazile

Lecture Room: Zenit

08:30–10:30

Chairperson(s): Andrea Kaiser-Weiss

08:30–09:00: EMS2014-134

Low frequency variability in the family of ERA-20C reanalyses (solicited)

Paul Berrisford, Dick Dee, Paul Poli, Hans Hersbach, Carole Peubey, Takuya Komori, David Tan, Patrick Laloyaux, Rossana Dragani, Shoji Hirahara, Adrian Simmons
ECMWF, Research Department, Reading, United Kingdom (p.berrisford@ecmwf.int)

09:00–09:15: EMS2014-447

Reprocessed Meteosat Second Generation Geophysical Products for Reanalysis

Marie Doutriaux-Boucher, Joerg Schulz, Alessio Lattanzio, Rob Roebeling
EUMETSAT, Darmstadt, Germany
(Joerg.Schulz@eumetsat.int)

09:15–09:30: EMS2014-100

European regional reanalyses efforts in the UERRA project and uncertainty estimates

Per Unden, Manola Brunet, Dale Barker, Andrea Kaiser-Weiss, Albert Klein Tank, Phil Jones
Swedish Meteorological and Hydrological Institute, Norrköping, Sweden

09:30–09:45: EMS2014-456

Estimation of uncertainties in an European high-resolution surface re-analysis under UERRA project

Cornel Soci, Eric Bazile
Météo-France, CNRM/GMAP, Toulouse, France
(cornel.soci@meteo.fr)

09:45–10:00: EMS2014-264

Diurnal temperature cycle deduced from extreme daily temperatures and impact over a surface reanalysis system

François Besson, Jean-Michel Soubeyrou, Eric Bazile, Cornel Soci, Maxime Perrin
Meteo-France, DClim/AVH, Toulouse, France

10:00–10:15: EMS2014-204

Extension of a fine mesh reanalysis over France on the entire XXIth century: Feasibility and prospects

Jean-Pierre Céron, Marie Minvielle, François Besson, Christian Pagé
Meteo-France, Direction de la Climatologie, Toulouse France, (jean-pierre.ceron@meteo.fr)

10:15–10:30: Discussion:

On temporal scales of variability in the reanalyses

10:30 Coffee Break & Poster Sessions**11:30–13:00**

Chairperson(s): Leopold Haimberger

11:30–11:45: EMS2014-339

A High-resolution Reanalysis for the European CORDEX Region

Christoph Bollmeyer, Jan Keller, Christian Ohlwein, Sabrina Bentzien, Petra Friederichs, Andreas Hense
Hans-Ertel Centre for Weather Research - Climate Monitoring Branch, University Bonn, Meteorological Institute, Bonn, Germany

11:45–12:00: EMS2014-344

The effect of horizontal resolution and the assimilation of radar-derived rain rates in a regional reanalysis

Sabrina Bentzien, Christoph Bollmeyer, Christopher Danek, Petra Friederichs, Andreas Hense, Jan Keller, Christian Ohlwein
University of Bonn, Meteorological Institute, Bonn, Germany, Hans-Ertel Centre for Weather Research - Climate Monitoring Branch

12:00–12:15: EMS2014-590

A high resolution climate data set for Europe through dynamical downscaling with frequent reinitializations

Thomas Remke, Claas Teichmann, Daniela Jacob
Climate Service Center (CSC), Helmholtz-Zentrum Geesthacht, Germany

12:15–12:45: EMS2014-422

Modelling of long term wind resource assessment uncertainty using tall mast datasets (solicited)

Elvin Lemmens, Rory Donnelly, Grégoire Leroy
E, iLab, Brussel, Belgium (rory.donnelly@3e.eu)

12:45–13:00: Discussion:

On the added value of regional reanalysis and downscaling methods

END OF ORAL PROGRAMME UC4/SE3

Communication and Education

CE3 Communication of uncertainty in seasonal prediction and climate projection

Convener: Haleh Kootval

Co-Conveners: Alberto Arribas; Anca Brookshaw; Tanja Cegnar

Lecture Room: Tycho

16:30–18:30

Chairperson(s): A. Brookshaw

16:30–16:45: EMS2014-647

The challenge for broadcasters in communicating climate change uncertainty

Jay Trobec

KELO-TV, Sioux Falls, South Dakota, USA

16:45–17:00: EMS2014-209

A communication issue: Extremes of meteorological parameters and their development in a changed climate

Arne Spekat, Wolfgang Enke

Climate and Environment Consulting Potsdam GmbH, Potsdam, Germany (arne.spekat@cec-potsdam.de)

17:00–17:15: EMS2014-481

Monthly forecast products based on daily data

Christoph Spirig, **Mark Liniger**

Federal Office of Meteorology and Climatology MeteoSwiss, Climate Division, Zuerich, Switzerland (mark.liniger@meteoswiss.ch)

17:15–17:30: EMS2014-640

Regional climate outlooks in the U.S.: Explaining and exploiting ENSO-related forecast skill on seasonal to annual time scales

Klaus Wolter

University of Colorado-Boulder

17:30–17:45: EMS2014-185

Communicating uncertainty in seasonal climate predictions: End-user perceptions and preferences

Andrea Taylor, Suraje Dessai

University of Leeds, Sustainability Research Institute, School for Earth and Environment, United Kingdom (a.i.taylor@leeds.ac.uk)

17:45–18:00: EMS2014-506

Visualising uncertainty across three generations of the MiKlip decadal prediction system

Freja Vamborg, Kameswarrao Modali, Wolfgang A.

Müller, Holger Pohlmann, Jochem Marotzke
Max Planck Institute for Meteorology, Hamburg, Germany (freja.vamborg@mpimet.mpg.de)

18:00–18:10: Poster overview

18:10–18:30: Discussion and wrap-up of the session

END OF ORAL PROGRAMME CE3

CE5 How I became a scientist - reporting on the right steps in the right direction and possible stumbling blocks to overcome

Convener: Renate Hagedorn

Co-Conveners: Heike Hübener; Martina Junge

Lecture Room: Tycho

14:00–15:50

Chairperson(s): Renate Hagedorn

14:00–14:10: Introduction: The objectives of this session

14:10–14:20: EMS2014-65

Science in the (energy) private sector: is it possible?

Laurent Dubus

EDF R&D, Applied Meteorology and Atmospheric Environment, CHATOU CEDEX, France (laurent.dubus@edf.fr)

14:20–14:30:

Between Science & Society or, Am I a Scientist?

Catherine Vaughan

IRI New York

14:30–14:40: EMS2014-670

No science, please... real life problems, please...

Marion Schroedter-Homscheidt

DLR, Germany

14:40–14:50: EMS2014-649

A career path with diversions

Barbara Früh

DWD, Germany

14:50–15:00: EMS2014-650

Advice to a student who wants to make a career in the mathematical sciences

Anders Persson

Swedish Meteorological Society, Sweden

15:00–15:10: EMS2014-664

Three decades in the climate woods

Clare Goodess

University of East Anglia, Climatic Research Unit, United Kingdom (C.Goodess@uea.ac.uk)

15:10–15:30: Discussion

END OF ORAL PROGRAMME CE5

The Atmospheric System and its Interactions

ASI1 Dynamical meteorology

Convener: Thomas Frisius
Co-Conveners: Alessandro Dell'Aquila; Frank Lunkeit
Lecture Room: Taurus

14:00–15:55

Chairperson(s): Alessandro Dell'Aquila

14:00–14:30: EMS2014-667

Young Scientist Award Lecture:
 Using convection-permitting models to better understand tropical convection (solicited)

Cathryn Birch

Institute for Climate and Atmospheric Science, School of Earth and Environment, University of Leeds, UK
 (C.E.Birch@leeds.ac.uk)

14:30–14:45: EMS2014-318

Role of medium-scale waves on the Annular Modes
Yuhji Kuroda, Hitoshi Mukougawa
 Meteorological Research Institute, Climate Research Department, Tsukuba, Japan (kuroda@mri-jma.go.jp)

14:45–15:00: EMS2014-82

Predictability of Stratosphere-Troposphere Dynamical Coupling Examined by Ensemble Forecast Datasets
Hitoshi Mukougawa, Toshihiko Hirooka, Kunihiko Koderu, Yuhji Kuroda, Shunsuke Noguchi
 Kyoto University, Disaster Prevention Research Institute, Uji, Japan (mukou@dpac.dpri.kyoto-u.ac.jp)

15:00–15:15: EMS2014-570

Impact of Reanalysis Forcing Data on Extra-Tropical Cyclones Simulations
Juan Ferreira, Prabodha Pradhan, Margarida L. R. Liberato
 Escola de Ciências e Tecnologia, Universidade de Trás-os-Montes e Alto Douro (UTAD), Vila Real, Portugal

15:15–15:30: EMS2014-46

Rapid Arctic change in recent decades and its influence on the climate change over Eurasia
Seong-Joong Kim, Baek-Min Kim, Taehyoun Shim
 Division of Polar Climate Change Research, Korea Polar Research Institute, Incheon, Republic of Korea
 (seongjkim@kopri.re.kr)

15:30–15:45: EMS2014-77

Can ENSO affect Tibetan Plateau thermal effect from winter through summer?
Yafei Wang, Xiaoyu Xu
 Chinese Academy of Meteorological Sciences, Beijing, China (yfwang@cma.cma.gov.cn)

15:45–15:55: Poster introductions (2 minutes per poster)

END OF ORAL PROGRAMME ASI1

ASI3 Formulation, validation and parameterization of small-scale processes in atmospheric modelling

Convener: Gert-Jan Steeneveld
Co-Conveners: Bert Holtslag; Matteo Zampieri
Lecture Room: Leo + Virgo

08:30–10:30

Chairperson(s): Bert Holtslag

08:30–08:45: EMS2014-163

The influence of small scale terrain features on the nocturnal boundary layer and grid-averaged fluxes

Larry Mahrt

NorthWest Research Associates, Redmond, WA, USA, mahrt@nwra.com

08:45–09:00: EMS2014-152

Atmospheric transfer coefficients in climate models for different topography and stability regimes over polar sea ice

Christof Lüpkes, Vladimir M. Gryanik, Wolfgang Dorn
 Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany
 (Christof.Luepkes@awi.de)

09:00–09:15: EMS2014-260

Evaluation of the Weather Research Forecasting model for three contrasting sites over snow in stable conditions with light winds
 Marina Sterk, **Gert-Jan Steeneveld**, Timo Vihma, Fred Bosveld, Phil Anderson, Bert Holtslag
 Wageningen University, Meteorology and Air Quality Section, Wageningen, Netherlands
 (gert-jan.steeneveld@wur.nl)

09:15–09:30: EMS2014-605

Height scales in stable boundary layers
Francesco Tampieri
 CNR, ISAC, Bologna, Italy (f.tampieri@isac.cnr.it)

09:30–09:45: EMS2014-602

Evaluation of WRF Boundary Layer Profiles against Radiosoundings in Northern Greenland in winter conditions
 Hristina Kirova, **Ekaterina Batchvarova**, Sven-Erik Gryning, Henrik Skov, Lise Lotte Soerensen, Christoph Munkel
 National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences, Sofia, Bulgaria; Technival University of Denmark, DTU Wind Energy, Roskilde, Denmark;

09:45–10:00: EMS2014-174

Importance of Aerosols in Predicting the onset of Radiation Fog
Sreenivas K R, Dhiraj Kumar Singh, Ponnulakshmi, V K, Ganesh Subramanian
 Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Engineering Mechanics Unit, Bangalore, India (krs@jncasr.ac.in)

10:00–10:15: EMS2014-375

Radiation fogs: WRF and LES numerical experiments
Carlos Román-Cascón, Gert-Jan Steeneveld, Carlos Yagüe, Mariano Sastre, Gregorio Maqueda
 Universidad Complutense de Madrid, Departamento Geofísica y Meteorología, Madrid, Spain

10:15–10:30: EMS2014-386

Boundary-layer and land-surface schemes in WRF for the evening transition during the BLLAST campaign
Mariano Sastre, Gert-Jan Steeneveld, Carlos Yagüe, Carlos Román-Cascón, Gregorio Maqueda
 Universidad Complutense de Madrid, Facultad de Ciencias Físicas, Geofísica y Meteorología, Madrid, Spain (msastrem@ucm.es)

10:30 Coffee Break & Poster Sessions

11:30–13:00

Chairperson(s): Gert-Jan Steeneveld

11:30–11:45: EMS2014-239

Improving sensitivity to vegetation variability in the EC-Earth earth system model (solicited)
Andrea Alessandri, Franco Catalano, Matteo De Felice
 Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile (ENEA), C.R. Casaccia, UTMEA-CLIM, Santa Maria di Galeria, Rome, Italy (andrea.alessandri@enea.it)

11:45–12:00: EMS2014-49

Subgrid-Scale Turbulent Transport in Convective Boundary Layers at Gray-Zone Resolutions
Song-You Hong, Hyeyum Hailey Shin
 (shong@yonsei.ac.kr)

12:00–12:15: EMS2014-271

Band approach with selective intermittent strategy - a new way of doing effective and yet accurate radiative transfer calculations?
Jean-François Geleyn, Jan Mašek, Radmila Brožková, Peter Kuma
 CNRM, Météo-France, Toulouse, France
 (jean-francois.geleyn@meteo.fr)

12:15–12:30: EMS2014-468

Very high-resolution modeling with COSMO focusing on land-surface impacts
Leonhard Gantner, Norbert Kalthoff, Vera Maurer
 Institut für Meteorologie und Klimaforschung (IMK-TRO, KIT), Karlsruhe, Germany (vera.maurer@kit.edu)

12:30–12:45: EMS2014-217

Measurements and modelling of turbulence statistics and CO₂ fluxes above a land-water mosaic area in Denmark
Andrey Sogachev, Ebba Dellwik
 Technical University of Denmark, Wind Energy, Roskilde, Denmark (anso@dtu.dk, ebde@dtu.dk)

12:45–13:00: EMS2014-579

Estimation of the wind velocity standard deviations in the suburban and urban surface layer using parameters measured in the roughness sublayer.
 Simona Falabino, Silvia Trini Castelli
 C.N.R., ISAC, Torino, Italy (trini@to.infn.it), Dept. of Physics, University of Torino

ASI5/CE7 Biometeorology (co-organized)

Convener: Andreas Matzarakis
Co-Convener: Tanja Cegnar
Lecture Room: Taurus

16:30–18:30

Chairperson(s): Andreas Matzarakis

16:30–16:45: EMS2014-50

Thermal Indices and Application in Biometeorology
Andreas Matzarakis
 University of Freiburg, Chair of Meteorology and Climatology, Freiburg, Germany
 (andreas.matzarakis@meteo.uni-freiburg.de)

16:45–17:00: EMS2014-580

Spatial variation of human thermal comfort and impact of mean radiant temperature during a heat-wave in the town of Wageningen, The Netherlands
Bert G. Heusinkveld, Gert-Jan Steeneveld, Reinder J. Ronda, Jisk J. Attema, Albert A.M. Holtslag
 Netherlands (bert.heusinkveld@wur.nl)

17:00–17:15: EMS2014-31

Human thermal bioclimatic conditions associated with respiratory diseases in Crete Island, Greece
 Anastasia G. Bleta, Panagiotis T. Nastos, **Panagiotis Agouridakis**, George Notas, Nikolaos A. Kampanis
 University of Crete Medical School, School of Medicine, Greece

17:15–17:30: EMS2014-26

Human-biometeorological estimation of adaptation- and mitigation possibilities of urban green based on measurements and regional climate modelling in Southwest Germany
Dominik Froehlich, Andreas Matzarakis
 Chair for Meteorology and Climatology, Albert-Ludwigs-University Freiburg, Germany
 (dominik.froehlich@meteo.uni-freiburg.de)

17:30–17:45: EMS2014-644

The role of trees in urban thermal comfort and SkyView Factor
Ahmet Koc, Sevgi Yilmaz, M. Akif Irmak, Andreas Matzarakis
 Fac. of Architecture and Design, Dept. of Landscape Architecture, 25240, Erzurum, Turkey

17:45–18:00: EMS2014-51

Micro Scale Models for Human-Biometeorological Assessment
Andreas Matzarakis
 University of Freiburg, Chair of Meteorology and Climatology, Freiburg, Germany
 (andreas.matzarakis@meteo.uni-freiburg.de)

18:00–18:15: EMS2014-483

Sferics bio-effects on humans - new subject-related statistical investigations in meteorosensitivity
Christian König, Florian König
 Press & Media, Erding, Germany
 (christiankoenig2004@yahoo.de)

18:15–18:30: Discussion about methods and models

ASI6 Atmospheric measurements from the local to the regional scale: Concepts, new technologies and scientific progress

Convener: Frank Beyrich
Co-Convener: Fred C. Bosveld
Lecture Room: Leo + Virgo

16:30–18:30

Chairperson(s): F. Beyrich

Surface-Atmosphere Interaction

16:30–17:00: EMS2014-192

Atmospheric Station Kresin u Pacova, Czech Republic - a central European research infrastructure for studying greenhouse gases, aerosols and air quality (solicited)
Alice Dvorska, Michal Fusek, Vlastimil Hanus, Katerina Hoskova, Jaroslav Michalek, Pavel Prosek, Jaroslav Schwarz, Pavel Sedlak, Milan Vana, Petr Veselik, Petr Vodicka, Vladimir Zdimal, Nada Zikova
 Global Change Research Centre AS CR, Department of Atmospheric Matter Fluxes and Long-range Transport, Brno, Czech Republic
 (dvorska.a@czechglobe.cz)

17:00–17:15: EMS2014-200

25 Years of Evaporation Observations at the Cabauw Experimental Site for Atmospheric Research (CESAR).
Fred C. Bosveld
 KNMI, De Bilt, Netherlands (Fred.Bosveld@knmi.nl)

17:15–17:30: EMS2014-139

An analysis of ten years atmosphere-surface water and energy transfer data from a micrometeorological station in Salento peninsula (southern Italy)
Paolo Martano, Cosimo Elefante, Fabio Grasso
 CNR-ISAC, Lecce, Italy (p.martano@isac.cnr.it)

17:30–17:45: EMS2014-577

GRUAN: reference quality upper air measurements from radiosoundings
Ruud Dirksen, Michael Sommer, Holger Vömel
 Deutscher Wetterdienst, Meteorologisches Observatorium Lindenberg - Richard Assmann
 Observatorium, Lindenberg/Tauche, Germany
 (ruud.dirksen@dwd.de)

17:45–18:00: EMS2014-135

Characteristics of leads in sea ice and their impact on the atmospheric boundary layer measured during the aircraft campaign STABLE 2013
Amelie Tetzlaff, Christof Lüpkes, Jörg Hartmann, Gerit Birnbaum, Timo Vihma, Tiina Nygård
 Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven, Germany

18:00–18:15: EMS2014-498

Measurements of Lake-Atmosphere interactions at Alqueva reservoir
Miguel Potes, Rui Salgado, Maria João Costa
 Universidade de Évora, Centro de Geofísica de Évora, Évora, Portugal (mpotes@uevora.pt)

18:15–18:30: EMS2014-33

Nitrogen dioxide and formaldehyde observations at DOAS Network in Moscow Region
Alexander Borovski, Aleksander Elokhov, Oleg Postylyakov, Victor Ivanov, Yugo Kanaya
 A.M. Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences, Russian Federation
 (alexander.n.borovski@gmail.com)

ORAL PROGRAMME ASI6 continues on Friday

ASI8 Boundary-layer physics and parameterizations in weather and climate models

Convener: Sergej Zilitinkevich
Co-Convener: Arakel Petrosyan
Lecture Room: Leo + Virgo

14:00–16:00

14:00–14:30: EMS2014-491

Turbulence and organised structures in atmospheric convective boundary layer (solicited)
Sergej Zilitinkevich, Nathan Kleerorin, Igor Rogachevskii, Antti Hellsten
 Finnish Meteorological Institute, Finland, University of Helsinki, Finland, Nizhny Novgorod State University, Russia

14:30–14:45: EMS2014-9 (YSTA)

Shear Capacity as Predictor of Nocturnal Boundary Layer Regimes
Ivo van Hooijdonk, Bas van de Wiel, Judith Donda, Fred Bosveld, Jielun Sun, Herman Clercx
 Fluid Dynamics Laboratory, Eindhoven University of Technology, Eindhoven, Netherlands
 (i.g.s.v.hooijdonk@tue.nl)

14:45–15:00: EMS2014-203

A new formula for low-wind spectra in stable and unstable conditions
Luca Mortarini, Domenico Anfossi
 ISAC - CNR, Torino, Italy (l.mortarini@isac.cnr.it)

15:00–15:15: EMS2014-412

Compact framework of stability dependency functions for turbulent schemes with prognostic TKE.
Ivan Bašták Ďurán, Jean-François Geleyn, Filip Váňa
 ONPP/CHMI, Praha, Czech Republic
 (ivan.bastak@chmi.cz)

15:15–15:30: EMS2014-586

The planetary boundary layer height at Ny-Alesund: a comparison among different formulations based on measurements and models
 Oxana Drofa, Christian Lanconelli, Angelo Lupi, Mauro Mazzola, **Francesco Tampieri**, Angelo Viola, Marion Maturilli, Christoph Ritter, Alexander Schultz
 CNR, ISAC, Bologna, Italy (f.tampieri@isac.cnr.it)

15:30–15:45: EMS2014-22

High-resolution simulations of a very stable boundary layer using the WRF and COSMO models: A Comparative Study

Ines Cerenzia, Sukanta Basu, Tony Christian Landi, Giovanni Bonafè
Department of Geophysics, Bologna University, Italy
(icerenzia@arpa.emr.it)

15:45–16:00: EMS2014-370

The role of the turbulence in the topographic scheme of the WRF model to improve the surface wind speed over the Iberian Peninsula

Raquel Lorente-Plazas, Pedro Ángel Jimenez, Jimmy Dudhia, Pedro Jimenez-Guerrero, Juan Pedro Montávez
University of Murcia, Dept. of Physics, Murcia, Spain
(lorente.plazas@gmail.com)

END OF ORAL PROGRAMME ASI8

ASI9 Interfacing hydrological and meteorological models in forecasting system

Convener: Herbert Formayer

Co-Conveners: Bodo Ahrens; Massimiliano Zappa

Lecture Room: Taurus

11:30–12:45

Chairperson(s): Herbert Formayer

11:30–12:00: EMS2014-391

Downscaling near-surface atmospheric fields based on multi-objective Genetic Programming

Tanja Zerenner, Victor Venema, Petra Friederichs, Clemens Simmer
Meteorological Institute, University of Bonn, Germany

12:00–12:15: EMS2014-461

Real-time hydrometeorological ensemble for flash-floods forecasting within HYMEX

Béatrice Vincendon, Olivier Nuissier, François Bouttier, Véronique Ducrocq, Simon Edouard
GAME/CNRM (Météo-France, CNRS), Toulouse, France

12:15–12:30: EMS2014-469

A Gaussian random field approach for aggregation and disaggregation of radar rainfall data

Katharina Krebsbach, Petra Friederichs
University of Bonn, Meteorological Institute, Bonn, Germany
(kkrebsbach@uni-bonn.de)

12:30–12:45: EMS2014-488

Influence of land surface-atmosphere interaction on deep moist convection in COSMO-CLM

Erwan Brisson, Christoph Brendel, Bodo Ahrens
Institute for Atmospheric and Environmental Sciences, Goethe University of Frankfurt, Frankfurt am Main, Germany
(sekretariat@iauw.uni-frankfurt.de)

END OF ORAL PROGRAMME ASI9

ASI10/MC5 Urban Climate (co-organized)

Convener: Martin Wattenbach

Lecture Room: Tycho

08:30–10:30

Chairperson(s): Martin Wattenbach

08:30–08:45: EMS2014-176

A Japanese validation project of a numerical model for simultaneous prediction of urban climate and building electricity demand

Yukihiko Kikegawa, Yukitaka Ohashi, Tomohiko Ihara, Minako Nabeshima, Yoshinori Shigeta
Department of Interdisciplinary Science and Engineering, Meisei University, Tokyo, Japan

08:45–09:00: EMS2014-85

Urban morphology characterization from earth observation and land use classification for applications in urban climate models

Saskia Buchholz, Bianca Regeling, Wieke Heldens, Meinolf Kossmann, Thomas Esch, Susanne Jochner
Deutscher Wetterdienst, Department Climate and Environment Consultancy, Frankfurter Straße 135, 63067 Offenbach, Germany

09:00–09:15: EMS2014-286

Changes of the synoptic conditions of Urban Heat Island Development in the region of Debrecen, Hungary between 1961 and 2010

Elemér László, Sándor Szegedi
University of Debrecen, Department of Meteorology, Debrecen, Hungary
(laszloelem@gmail.com)

09:15–09:30: EMS2014-348

Reinventing urban open spaces by different biomass strategies - Analysis of the microclimatic effects by measurements and modelling

Maria Schmidt, Stephan Weber
Climatology and Environmental Meteorology, Institute of Geoecology, Technische Universität Braunschweig, Germany
(maria.schmidt@tu-bs.de)

09:30–09:45: EMS2014-373

The ability of mesoscale climate model COSMO-CLM with the Double Canyon urban canopy scheme to simulate the urban heat island in Berlin

Sahar Sodoudi, Barbara Szenasi, Sebastian Schubert, Susanne Grossman-Clarke
Freie Universität Berlin, Department of Meteorology, Germany
(sodoudi@zedat.fu-berlin.de)

09:45–10:00: EMS2014-389

Relation between nocturnal winter Surface Urban Heat Island in cities in Poland, population density, night lighting and energy usage

Lech Gawuń, Joanna Struzewska
Warsaw University of Technology, Poland
(lech.gawuń@is.pw.edu.pl)

10:00–10:15: EMS2014-454

Simulation of Prague urban area with the integrated WRF/urban modelling system

Jaroslav Resler, Pavel Juruš, Kryštof Eben, Jan Karel, Radek Jareš
Institute of Computer Science, Prague, Czech Republic
(resler@cs.cas.cz)

10:15–10:30: EMS2014-543

Analyzing the impact of urban adaptation measures for Hamburg considering realistic atmospheric forcing

Ronny Petrik, Marita Linde, K. Heinke Schlünzen, Nora Teichert
University of Hamburg, Meteorological Institute, Germany (ronny.petrik@zmaw.de)

10:30 Coffee Break & Poster Sessions**11:30–12:41**

Chairperson(s): Martin Wattenbach

11:30–11:45: EMS2014-553

Multi-season variability of evapotranspiration on urban and rural areas in Central Poland - selected results of direct measurements and numerical estimations

Mariusz Siedlecki, Włodzimierz Pawlak, Krzysztof Fortuniak
University of Lodz, Department of Meteorology and Climatology, Lodz, Poland (siedlec@geo.uni.lodz.pl)

11:45–12:00: EMS2014-504

Air temperature retrieval from crowd-sourced smartphone battery temperatures for Dutch cities and its application in mesoscale model validation

Aart Overeem, James Robinson, Hidde Leijnse, Remko Uijlenhoet, **Gert-Jan Steeneveld**, Berthold Horn
Wageningen University, Meteorology and Air Quality Section, Wageningen, Netherlands
(gert-jan.steeneveld@wur.nl)

12:00–12:15: EMS2014-572

Studying the modification of precipitation in the urban region of Hamburg using an idealistic model setup

Ronny Petrik, Mirka Fischer, K. Heinke Schlünzen
University of Hamburg, Meteorological Institute, Germany (ronny.petrik@zmaw.de)

12:15–12:30: EMS2014-99

Net turbulent flux of methane in the city - methodological consideration and preliminary results from Lodz, Poland

Włodzimierz Pawlak, **Krzysztof Fortuniak**
University of Lodz, Institute of Geographical Sciences, Department of Meteorology and Climatology, Lodz, Poland (wpawlak@uni.lodz.pl)

12:30–12:40: The Climate Knowledge and Innovation Community (climate-KIC)**12:40–12:41: Note the talk EMS2014-579 at 12:45 in parallel Session ASI3**

"Estimation of the wind velocity standard deviations in the suburban and urban surface layer using parameters measured in the roughness sub-layer"

END OF ORAL PROGRAMME ASI10/MC5

ASI12/MC4 Phenology and agrometeorology (co-organized)

Convener: Elisabeth Koch

Co-Conveners: Josef Eitzinger; Branislava Lalic

Lecture Room: Taurus

08:30–10:30

Chairperson(s): Elisabeth Koch

08:30–08:45: EMS2014-583

Using phenology to communicate biological effects of climate change

Elisabeth Koch, Kjell Bolmgren, This Rutishauser, Thomas Hübner, Anita Jurkovic, Helfried Scheifinger, Markus Ungersböck
Central Institute for Meteorology and Geodynamics, Climatology, Vienna, Austria
(elisabeth.koch@zamg.ac.at)

08:45–09:00: EMS2014-541

The Potential Impacts of Future Climate Change on Agriculture in Citarum Watershed

Perdinan Perdinan, Impron Impron, Sisi Febriyanti Muin, Rizaldi Boer, Akhmad Faqih
Center for Climate Risk and Opportunity Management in Southeast Asia and Pacific (CCROM-SEAP), Bogor Agricultural University (IPB), Bogor, Indonesia (e-Mail: ccromseap.ipb@gmail.com), Department of Geophysics and Meteorology, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University (IPB), Indonesia

09:00–09:15: EMS2014-609

Application of high-resolution climate measurement and modelling to the adaptation of New Zealand vineyard regions to climate variability

Peyman Zawar-Reza, Andrew Sturman, Marwan Katurji, Eila Gendig, Tobias Schulmann, Iman Soltanzadeh
Centre for Atmospheric Research, University of Canterbury, New Zealand
(peyman.zawar-reza@canterbury.ac.nz)

09:15–09:30: EMS2014-542

Contrasted warming patterns in both hemispheres result in divergent blooming trends for apple.

Gustavo Malagi, Adnane El Yaacoubi, **Marc Bonhomme**, Gabriel Berenhauser Leite, Jean Michel Legave
INRA UMR 547 PIAF, Clermont-Ferrand, France (Marc.bonhomme@clermont.inra.fr), Clermont Université Université Blaise Pascal UMR 547 PIAF, Clermont-Ferrand, France

09:30–09:45: EMS2014-229

Fine-scale ecological and economic assessment of climate change on olive in the Mediterranean Basin reveals winners and losers

Luigi Ponti, Andrew Paul Gutierrez, Paolo Michele Ruti, Alessandro Dell'Aquila
ENEA, UTAGRI - Laboratorio Gestione Sostenibile degli Agroecosistemi, Rome, Italy, Center for the Analysis of Sustainable Agricultural Systems Global, Kensington

09:45–10:00: EMS2014-191

Reed (*Phragmites australis*) crop coefficient and evapotranspiration at the surroundings of Lake Balaton
Angela Anda, Gábor Soós
 University of Pannonia, Meteorology and Water,
 Keszthely, Hungary (anda-a@georgikon.hu)

10:00–10:15: EMS2014-78

Verification of the photosynthesis-driven phenology of the ISBA-A-gs model
Jean-Christophe Calvet, Camille Szczypta, Nicolas Canal
 CNRM-GAME (Météo-France, CNRS), GMME/VEGEO,
 Toulouse, France (jean-christophe.calvet@meteo.fr)

10:15–10:30: EMS2014-571

Stochastic weather generator M&Rfi: it works not only with the daily step and normally distributed variables
Martin Dubrovsky, Miroslav Trnka
 Institute of Atmospheric Physics, Praha, Czech Republic (dub@ufa.cas.cz), CzechGlobe - Center for Global Climate Change Impacts Studies, Brno, Czech Republic

END OF ORAL PROGRAMME ASI12/MC4

Side Meetings & Workshops

SIM7 RCC Network (RA VI) Workshop (public)

Convener: Stefan Rösner
Lecture Room: Aquarius

08:30–13:00

SIM15 ESSL ESWD meeting (by invitation only)

Convener: Alois M. Holzer
Lecture Room: Quadrant

08:30–19:00

SIM12 JPI climate meeting on user-provider interaction (public)

Convener: Carlo Buontempo
Lecture Room: Aquarius

14:00–16:00

European Conference on Applied Climatology (ECAC)

Monitoring climate and climate change

MC1 Climate monitoring; data rescue, management, quality and homogenization

Convener: Manola Brunet-India

Co-Conveners: Ingeborg Auer; Victor Venema; Dan Hollis; Hermann Mächel

Poster Area: Meridian Left Front

Chairperson(s): Manola Brunet and Inge Auer

Attendance Time: 10:30–11:30

Data Rescue

LF1: EMS2014-72

The EuMetNet Data Rescue portal

Ingeborg Auer, Barbara Chimani and the EUMETNET Data Rescue Expert Team
Central Institute for Meteorology and Geodynamics, Climatology, Vienna, Austria
(ingeborg.auer@zamg.ac.at)

LF2: EMS2014-75

Improving the input data to enhance high-resolution regional reanalysis over Europe: the UERRA project contribution

Manola Brunet-India, Ian Harris, Joan Ramon Coll, Philip D. Jones, Per Unden
University Rovira i Virgili, Centre for Climate Change (C3), Geography, Tarragona, Spain
(manola.brunet@urv.cat), Climatic Research Unit, School of Environmental Sciences, University of East Anglia, Norwich, UK

LF3: EMS2014-156

Data rescue of national and international meteorological observations at Deutscher Wetterdienst
Birger Tinz, Hermann Mächel, **Frank Kaspar**, Wolfgang Gloeden, Gudrun Rosenhagen
Deutscher Wetterdienst, Offenbach, Germany

LF4: EMS2014-568

Free access to climate observations from Germany - An overview of recent achievements of DWD's Climate Data Center (CDC)

Frank Kaspar, Andrea Kaiser-Weiss, Elsbeth Penda, Hermann Mächel
Deutscher Wetterdienst, Offenbach, Germany
(frank.kaspar@dwd.de)

Time-Series Quality Control and Homogenisation

LF5: EMS2014-10

HOMER and ACMANT comparison methods for central Pyrenees temperature

Nuria Perez-Zanón, Javier Sigro, Peter Domonkos
Universitat Rovira i Virgili, Centre for Climate Change (C3), Tarragona, Spain
(nuria.perez@urv.cat)

LF6: EMS2014-143

Comparison of early Upper-Air Observations in China and Korea with the Twentieth Century Reanalysis

Alexander Stickler, Richard Wartenburger, Stefan Brönnimann
Oeschger Centre for Climate Change Research, Bern, Switzerland, Institute of Geography, University Bern, Switzerland
(alexander.stickler@giub.unibe.ch)

LF7: EMS2014-197

Quality control of 10-min soil temperatures data at RMI

Cedric Bertrand, Luis Gonzalez Sotelino
Royal Meteorological Institute of Belgium, Climatology, Brussels, Belgium
(Cedric.Bertrand@meteo.be)

LF8: EMS2014-201

Homogeneity of Monthly Air Temperature in Estonia with HOMER

Helve Meitern, Kairi Vint, Sirje Keevallik
Estonia
(Helve.Meitern@envir.ee)

LF9: EMS2014-413

Is the global mean temperature trend too low?

Victor Venema, Ralf Lindau
University of Bonn, Meteorological institute, Bonn, Germany
(victor.venema@uni-bonn.de)

LF10: EMS2014-501

Production of a reference data set of homogenised series for analysis of temperature evolution in France since 1959

Anne-Laure Gibelin, Lola Corre, Nathalie Deaux, Brigitte Dubuisson, Sylvie Jourdain, Laurence Laval, Jean-Michel Piquemal
Météo-France - Direction de la Climatologie, Toulouse, France
(anne-laure.gibelin@meteo.fr)

Climate Monitoring

LF11: EMS2014-341

Constructing a pan-European database of past meteorological drought events

Jonathan Spinoni, Juergen Vogt, Gustavo Naumann, Paulo Barbosa
European Commission, Joint Research Centre, Institute for Environment and Sustainability, Italy
(jonathan.spinoni@jrc.ec.europa.eu)

LF12: EMS2014-246

The FORBIO Climate data set for climate analyses

Charles Delvaux, Michel Journée, Cédric Bertrand
Royal Meteorological Institute of Belgium, Brussels, Belgium

LF13: EMS2014-258

Workflow tools for long-term storage of geoscientific data and education of future scientists in data management

Petra Gebauer, Ingo Kirchner, Nora Mettig
Free University Berlin, Institute for Meteorology, Berlin, Germany (petra.gebauer@met.fu-berlin.de)

LF14: EMS2014-123

A long instrumental Greenland temperature record 1784-2013

John Cappelen, Bo Vinther
(jc@dmi.dk)

LF15: EMS2014-130

Release of an improved Full Data Reanalysis and Climatology of the Global Precipitation Climatology Centre (GPCC)

Markus Ziese, Udo Schneider, Anja Meyer-Christoffer, Peter Finger, Andreas Becker
German Weather Service, Hydrometeorology, Offenbach am Main, Germany (markus.ziese@dwd.de)

END OF POSTER PROGRAMME MC1**MC2 Spatial Climatology**

Convener: Ole Einar Tveito

Co-Conveners: Mojca Dolinar; Christoph Frei

Poster Area: Meridian Left Front

Chairperson(s): Mojca Dolinar

Attendance Time: 10:30–11:30

LF16: EMS2014-39

Seasonality of heavy precipitation in mid-elevation mountain systems in Central Europe: a case study of the Vosges (France)

Jana Minarova, Miloslav Müller, Alain Clappier, Georges Najjar
Department of Physical Geography and Geoecology, Charles University in Prague, Prague, Czech Republic (jana.minarova@natur.cuni.cz), Laboratoire Image, Ville, Environnement, National Center for Scientific Research & University of Strasbourg, Strasbourg, France (jana.minarova@live-cnrs.unistra.fr)

LF17: EMS2014-108

Climate maps of air temperature and precipitation in Belgium

Michel Journée
Royal Meteorological Institute of Belgium, Brussels, Belgium (michel.journee@meteo.be)

LF18: EMS2014-131

Applying the Global Precipitation Climatology Centre (GPCC) data base to investigate the impact of changing reference periods

Markus Ziese, Udo Schneider, Anja Meyer-Christoffer, Peter Finger, Andres Becker
German Weather Service, Hydrometeorology, Offenbach am Main, Germany (markus.ziese@dwd.de)

LF19: EMS2014-177

IT-environment for supporting climate services

Igor Okladnikov, Evgeny Gordov, Alexander Titov, Tamara Shulgina
IMCES SB RAS, Tomsk, Russian Federation (oig@scert.ru), ICT SB RAS, Tomsk branch, Tomsk, Russia

LF20: EMS2014-337

Climate change in the Carpathian Region

Jonathan Spinoni, Juergen Vogt, Sandor Szalai, Tamas Szentimrey, Monika Lakatos, Zita Bihari, Dragan Mihic, Sorin Cheval
Joint Research Center - European Commission, Joint Research Centre, Institute for Environment and Sustainability, ITALY (jonathan.spinoni@jrc.ec.europa.eu)

LF21: EMS2014-352

Modeling of atmospheric precipitation field in Slovakia

Pavel Štastný, Pavel Faško, and Marek Švec
Slovak Hydrometeorological Institute, Bratislava, Slovakia (pavol.fasko@shmu.sk)

LF22: EMS2014-381

Trends in reference evapotranspiration in the context of climate variability in Poland (1971-2010)

Pawel Bogawski, Ewa Bednorz
Adam Mickiewicz University in Poznan, Faculty of Biology, Laboratory of Aeropalynology, Poznan, Poland (bogawski@amu.edu.pl), Adam Mickiewicz University in Poznan, Faculty of Geographical and Geological Sciences, Department of Climatology

LF23: EMS2014-487

Spatial analysis of precipitation extremes in Switzerland

Christoph Frei, Anne Schindler, Sophie Fukutome
Federal Office of Meteorology and Climatology MeteoSwiss, Zürich, Switzerland (christoph.frei@meteoswiss.ch)

LF24: EMS2014-529

Spatial characteristics of the air humidity in Slovakia in the period 1961-2010

Katarína Mikulová, **Hana Kapolková**, Peter Kajaba, Gabriela Ivaňáková, Pavel Štastný
Slovak Hydrometeorological Institute, Bratislava, Slovakia (peter.kajaba@shmu.sk)

LF25: EMS2014-28

Temperature analysis on the North-Western Italian Alps through the use of ground-based meteorological stations, spatial interpolation and satellite images

Diego Garzena, Fiorella Acquotta, Enrico Borgogno Mondino, Simona Fratianni, Michele Freppaz, Danilo Godone
Dept. of Earth Sciences, University of Turin, Turin, Italy (diego.garzena@unito.it)

LF26: EMS2014-561

Spatial analysis of precipitation in a high-mountain region: Exploring methods with multi-scale topographic predictors and circulation types

David Masson, Christoph Frei
MeteoSwiss, Climate Analysis, Zurich, Switzerland (massond@phys.ethz.ch)

LF27: EMS2014-530

High-resolution Spatial Interpolation of Hourly Temperature in Norway
Cristian Lussana, Ole Einar Tveito
 Norwegian Meteorological Institute, Meteorology and Climate Department - Division for Climate Services - Section for Data and Spatial Analysis, Oslo, Norway
 (cristianl@met.no)

END OF POSTER PROGRAMME MC2

Understanding processes and climate change

UC4/SE3 Global and regional reanalyses (co-organized)

Convener: A. K. Kaiser-Weiss
Co-Conveners: Leopold Haimberger; Ge Verver; Dick Dee; Eric Bazile
Poster Area: Meridian Left Back
Attendance Time: 10:30–11:30

LB19: EMS2014-453

Atmospheric Motion Vectors from EUMETSAT for the use in global reanalysis
 Roger Huckle, **Marie Doutriaux-Boucher**, Alessio Lattanzio, Joerg Schulz
 EUMETSAT, Darmstadt, Germany
 (Joerg.Schulz@eumetsat.int)

LB20: EMS2014-502

The two faces of the Global Warming in the ERA-20CM experiment
Valerio Lembo, Piero Lionello
 University of Salento, DISTEBA, Lecce, Italy
 (piero.lionello@unisalento.it), CMCC, Centro Euro-Mediterraneo sui Cambiamenti Climatici

LB21: EMS2014-505

Response of the Mean Meridional Circulation to El-Niño/La-Niña in the ERA-20CM Experiment Simulations
Roberta D'Agostino, Piero Lionello
 University of Salento, DISTEBA, Lecce, Italy
 (piero.lionello@unisalento.it), CMCC, Euro-Mediterranean Centre on Climate Change

LB22: EMS2014-540

Using feedback statistics for evaluating global and regional reanalyses - an example approach applied to wind data
André Obregón, Andrea Kaiser-Weiss, Liselotte Bach, Michael Borsche, Hilppa Gregow, Paul Poli, David Tan, Frank Kaspar
 Deutscher Wetterdienst, Offenbach, Germany

LB23: EMS2014-142

Comparison of Upper-Air Observations from the German Atlantic Expedition 1925-27 with the Twentieth Century Reanalysis
Alexander Stickler, Richard Wartenburger, Samuel Storz, Christof Jörg, Stefan Brönnimann
 Oeschger Centre for Climate Change Research, Bern, Switzerland, Institute of Geography, University of Bern, Switzerland (alexander.stickler@giub.unibe.ch)

LB24: EMS2014-574

How to characterize uncertainties in regional reanalyses
Michael Borsche, Andrea Kaiser-Weiss, André Obregón, Frank Kaspar
 Deutscher Wetterdienst, Offenbach, Germany
 (michael.borsche@dwd.de)

LB25: EMS2014-3

The effects of precipitation on traffic accidents in Sofia, Bulgaria
Zornitsa Spasova, Tsvetan Dimitrov, Anelia Gocheva, Daniela Bozhilova
 National Center of Public Health and Analyses, Health Policies Analyses, Sofia, Bulgaria
 (Z.Spasova@ncpha.government.bg)

LB26: EMS2014-434

Assessment of water cycle parameters in high-resolution reanalysis
 Stephanie Redl, Sandra Steinke, Susanne Crewell, Christoph Bollmeyer, **Jan Keller**, Mario Mech, Galina Dick
 Hans-Ertel-Centre for Weather Research, Climate Monitoring Branch, Deutscher Wetterdienst, Offenbach, Germany

LB27: EMS2014-363

Towards a high-resolution LETKF / ensemble nudging reanalysis system
Liselotte Bach, Jan D. Keller, Christian Ohlwein, Andreas Hense, Petra Friederichs
 University of Bonn, Germany (libach@gmx.de)

LB28: EMS2014-40

Assessment of Regional Climate Model (RegCM) Simulations for High and Low Resolutions over Turkey between 1971-2000: Temperature and Precipitation
Simge irem Bilgen, Ceren Balli, Yurdanur S. Unal
 Istanbul Technical University (ITU), Graduate School of Science, Engineering and Technology, Atmospheric Sciences, Turkey (simgebilgen@gmail.com)

END OF POSTER PROGRAMME UC4/SE3

Communication and Education

CE3 Communication of uncertainty in seasonal prediction and climate projection

Convener: Haleh Kootval

Co-Conveners: Alberto Arribas; Anca Brookshaw; Tanja Cegnár

Poster Area: Meridian Right Front

Chairperson(s): A. Brookshaw

Attendance Time: 10:30–11:30

RF1: EMS2014-437

The user perspective of seasonal forecast in Basque Country

Joseba Egaña, Santiago Gaztelumendi
TECNALIA - Meteorology Area, Basque Meteorology Agency (EUSKALMET)

RF2: EMS2014-658

Transdisciplinary communication and stakeholder integration in climate change adaptation - a systematic literature review

Jo-Ting Huang, Matthias Bergmann, Carina Brinkmann, Simone Rödder, Susanne Schuck-Zöllner
Chair of Environmental Management and Accounting, Faculty of Business and Economics, TU Dresden
(jo-ting.huang@tu-dresden.de)

END OF POSTER PROGRAMME CE3

The Atmospheric System and its Interactions

ASI1 Dynamical meteorology

Convener: Thomas Frisius

Co-Conveners: Alessandro Dell'Aquila; Frank Lunkeit

Poster Area: Meridian Right Front

Chairperson(s): Alessandro Dell'Aquila

Attendance Time: 10:30–11:30

RF3: EMS2014-5

Zonal jet formation in numerical simulations of a large rotating annulus experiment

Paul Williams, Christopher Kelsall
University of Reading, Department of Meteorology, Reading, United Kingdom (p.d.williams@reading.ac.uk)

RF4: EMS2014-387

Predictability of a Polar Vortex Splitting Event in the Stratosphere: An Ensemble Reforecast Experiment for January 2009

Shunsuke Noguchi, **Hitoshi Mukougawa**, Yuhji Kuroda, Ryo Mizuta, Hiroaki Naoe, Satoshi Noda, Shoukichi Yabu, Hiromasa Yoshimura
Disaster Prevention Research Institute, Kyoto University, Uji, Japan

RF5: EMS2014-569

Spatial variability of the influence of the tropospheric thermobaric field on air temperature in Europe

Marek Kosowski, Sławomir Szot
Jagiellonian University, Institute of Geography and Spatial Management, Department of Climatology, Poland (marek.kosowski@uj.edu.pl)

RF6: EMS2014-255

The total precipitation in the warm half of the year in Poland in the relation to the water vapor transport

Piotr Piotrowski, Joanna Jędruszkiewicz
University of Lodz, Department of Meteorology and Climatology, Lodz, Poland (janos33@wp.pl; jjedrusszkiewicz@gmail.com)

END OF POSTER PROGRAMME ASI1

ASI8 Boundary-layer physics and parameterizations in weather and climate models

Convener: Sergej Zilitinkevich

Co-Convener: Arakel Petrosyan

Poster Area: Meridian Right Front

Attendance Time: 10:30–11:30

RF12: EMS2014-162

A study of speed-up behavior in neutral and stably-stratified boundary layer flows over complex terrain

Jose Luis Argain
University of Algarve, Physics Department, Faro, Portugal, jargain@ualg.pt

RF13: EMS2014-369

On the role of the atmospheric boundary layer (ABL) height in the Arctic amplification of climate change

Svyatoslav Tyuryakov, Timo Vihma, Sergej Zilitinkevich
Finnish Meteorological Institute, Helsinki, Finland
(svyatoslav.tyuryakov@fmi.fi)

RF14: EMS2014-509

Comparison of Energy- and Flux-Budget turbulence closure with Large Eddy Simulation

Evgeny Kadantsev, Carl Fortelius, Andrey Glazunov, Sergej Zilitinkevich
University of Helsinki, Finland, Finnish Meteorological Institute, Finland

END OF POSTER PROGRAMME ASI8

ASI10/MC5 Urban Climate (co-organized)

Convener: Martin Wattenbach

Poster Area: Meridian Right Front

Chairperson(s): Martin Wattenbach

Attendance Time: 10:30–11:30

RF15: EMS2014-43

Bahrain Regains Greenery

Sascha Henninger, Hesham Elmarsafawy, Kai Tobias
University of Kaiserslautern, Dep. of Physical
Geography, Kaiserslautern, Germany
(sascha.henninger@ru.uni-kl.de)

RF16: EMS2014-350

Comparison of the energy balance of a suburban and rural site to study the microclimatic properties of urban open spaces

Sabrina Martin, Maria Schmidt, **Stephan Weber**
Climatology and Environmental Meteorology, Institute of Geoecology, Technische Universität Braunschweig, Germany (s.weber@tu-bs.de)

RF18: EMS2014-92

Urban climate model simulations and low-cost air temperature measurements for heat load assessment in Vienna

Maja Zuvela-Aloise, Brigitta Hollosi, Gernot Weyss
ZAMG, Division Data, Methods, Modeling, Vienna, Austria (maja.zuvela-aloise@zamg.ac.at)

RF19: EMS2014-168

An Experimental Study On Airflow In The Artificial Urban Canyon Consisting Of Temporary Buildings

Wooram Cho, Do-Hyoung Kim, Geun-Hoi Kim, Jun Sang Park, Junyoung Jang, ChangBum Cho, Dae-Geun Lee, Seungsook Shin, Kyung-Yeub Nam, ByoungCheol Choi
National Institute of Meteorological Research, Je-ju do, Republic of Korea (wrcho@korea.kr)

RF20: EMS2014-230

Microclimatic effects of different building development plans as evaluated by a microclimate and a building energy model

David Heucke, Jannik Heusinger, **Stephan Weber**
Climatology and Environmental Meteorology, Institute of Geoecology, Technische Universität Braunschweig, Germany (s.weber@tu-bs.de)

RF21: EMS2014-333

Urban Heat Island of Prague - what we have learned from project UHI

Michal Zak, Pavel Zahradnicek, Petr Skalak
Czech Hydrometeorological Institute, Dept. of Climatology, Prague, Czech Republic
(michal.zak@chmi.cz)

RF22: EMS2014-362

Correction of sensible heat flux by a large aperture scintillometer using bowen ratio over urban residential area in Seoul, Korea

Jung-Hoon Chae, Moon-Soo Park
Weather Information Service Engine, Center for Atmospheric Science and Earthquake Research, Seoul 121-835, Republic of Korea (zhzhah79@gmail.com)

RF23: EMS2014-522

Simulation-based evaluation of evapotranspiration of rooftop greening and its effect in mitigating heat island

Yujiro Hirano, Yukitaka Ohashi, Tsuyoshi Fujita
National Institute for Environmental Studies, Japan

END OF POSTER PROGRAMME ASI10/MC5

ASI12/MC4 Phenology and agrometeorology (co-organized)

Convener: Elisabeth Koch

Co-Conveners: Josef Eitzinger; Branislava Lalic

Poster Area: Meridian Right Front

Chairperson(s): Elisabeth Koch

Attendance Time: 10:30–11:30

RF24: EMS2014-534

Evapotranspiration from the forest cenose on the territory of Slovakia for the period 1951-2010

Ján Hrvol, Martin Gera, Maroš Turňa, Katarína Mikulová
Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia

RF25: EMS2014-317

Evaporation and evapotranspiration estimates under present and future climate conditions over Thessaly plain, Greece

Panagiotis T. Nastos, John Kapsomenakis, Spyros Kotsopoulos, Serafeim Poulos
Department of Geography & Climatology, Faculty of Geology & Geoenvironment, National & Kapodistrian University of Athens, Greece (nastos@geol.uoa.gr)

RF26: EMS2014-297

The influence of climate in the Portuguese "Vinho Verde" wine production

Helder Fraga, Aureliano Coelho Malheiro, José Moutinho-Pereira, **João Andrade Santos**
Centre for the Research and Technology of Agro-environmental and Biological Sciences, CITAB, Universidade de Trás-os-Montes e Alto Douro, UTAD, 5001-801 Vila Real, Portugal (jsantos@utad.pt)

RF27: EMS2014-323

Monitoring and Modeling of CH₄ Efflux from a Rice-Barley Double Cropping System in South Korea

Jong Chun, Kyo-Moon Shim, Seonghyun Min
APEC Climate Center, Republic of Korea
(jachun@apcc21.org)

Friday, 10 October 2014						
Room	Zenit	Nadir	Leo+Virgo	Tycho	Taurus	Aquarius
08:30–10:30	UC2: Climate prediction and scenarios on decadal to centennial timescales	ASI2: Meteorology, climate and space weather	ASI6: Atmospheric measurements	CE4: Education	ASI5/CE7: Biometeorology	SIM3: CORECLIMAX Capacity Building Workshop
10:30–11:30	Poster Session & Coffee Break Foyer and Room Meridian <i>Poster authors in attendance time for the following sessions:</i> ECAC programme group: UC2 (LB6 - LB16), UC3 (LB17 + LB18) CE programme group: CE4 (RB1 - RB3) ASI programme group: ASI2 (RB4 - RB6), ASI5/CE7 (RB7 - RB11), ASI6 (RB12 - RB25),					
11:30–13:00	UC2	ASI2	ASI6			SIM3
13:15	Announcement of poster award recipient, Closing (13:15–14:00) Foyer					

In the detailed daily programme (on pages 80 to 87) the related ECAC, CE and ASI sessions are listed in the following order: UC2, CE4, ASI2, ASI5/CE7, ASI6.

NOTE

CORECLIMAX Capacity Building Workshop: Climate Services: Products & tools to make choices Organisers: Bob Su, Wim J. Timmermans

The workshop originates from the FP7 CORECLIMAX project and aims at building capacities on the use of climate information. It will deal with future climate services and the usability of the terrestrial, oceanic as well as atmospheric climate data. The specific objectives are to provide guidance and expertise on the use of climate information and its associated uncertainty, and to provide generic tools to build the bridge between the climate data and the users' need.

The workshop will deal with the following questions: What data is there? How well does that data fit your needs? How can that data be used for Climate Services? Lectures and specific hands-on case studies will be given by leading experts (laptops will be available).

Interested participants please apply to the workshop (40 seats available) at:

<http://www.coreclimax.eu/?q=WorkshopCCBWCSApplication>

Workshop programme:

08:30–09:10: “Which data is out there?” - Bob Su
 09:10–09:50: “Re-analyses products and data assimilation for Climate Services” - David Tan
 09:50–10:30: “Which data are suitable for your application? – Support tools & info to make choices” – Joerg Schulz
 10:30–11:30: Coffee break and discussion
 11:30–12:30: Case studies / examples simultaneously:

“Combining reanalysis, in situ and impact data in a storm-related climate service” - Pauli Jokinen
 “Pricing of a parametric reinsurance product triggered by extreme El Nino events” - Iakovos Barmpadimos
 “Return period of the summer 2003 drought in France” – Iakovos Barmpadimos
 “Climate scenarios at the local scale” – KNMI

12:30–13:00: Wrap-up; reporting from different groups

European Conference on Applied Climatology (ECAC)

Understanding processes and climate change

UC2 Climate prediction and scenarios on decadal to centennial timescales

Convener: Christof Appenzeller

Co-Conveners: Clare Goodess; Jean-Pierre Céron; Martin Widmann

Lecture Room: Zenit

08:30–10:30

08:30–08:45: EMS2014-136

Towards a limited-area climate ensemble prediction system for decadal forecasts

Barbara Früh, Fatemeh Davary-Adalatpanah, Claus-Jürgen Lenz

Deutscher Wetterdienst, Klima und Umweltberatung, Offenbach, Germany (barbara.fruh@dwd.de)

08:45–09:00: EMS2014-508

Skill of probabilistic decadal forecasts regarding the frequencies of Northern Hemisphere extra-tropical cyclones

Tim Kruschke, Henning W. Rust, Christopher Kadow, Gregor C. Leckebusch, Uwe Ulbrich
Freie Universität Berlin, Institute of Meteorology, Berlin, Germany (tim.kruschke@met.fu-berlin.de)

09:00–09:15: EMS2014-545

KNMI'14: new climate scenarios for the Netherlands

Albert M.G. Klein Tank
Royal Netherlands Meteorological Institute, De Bilt, Netherlands (albert.klein.tank@knmi.nl)

09:15–09:30: EMS2014-365

Selecting an optimum subset of climate models for climate impact studies - a case study

Renate Wilcke, Lars Barring, Thomas Mendlik
Rossby Centre, Swedish Meteorological and Hydrological Institute, Norrköping, Sweden (renate.wilcke@smhi.se)

09:30–09:45: EMS2014-620

Testing reliability of selected methods of future precipitation extremes projections. A Central Europe case

Joanna Wibig, Joanna Jedruszkiewicz
University of Lodz, Meteorology and Climatology, Lodz, Poland (zameteo@uni.lodz.pl)

09:45–10:00: EMS2014-623

Integrated climate change assessment with climate classification

Michal Belda, Tomas Halenka, Jaroslava Kalvova, Eva Holtanova
Charles University in Prague, Prague, Czech Republic (tomas.halenka@mff.cuni.cz)

10:00–10:15: EMS2014-449

Future changes and signal analyses in the Mediterranean Area deduced from a CMIP3 multi-model ensemble

Gernot Vogt
German Weather Service, 63067 Offenbach, Germany (gernot.vogt@dwd.de)

10:15–10:30: EMS2014-619

The “usability gap”: the UK Climate Projections 2009 and adaptation decision making amongst organisations

Suraje Dessai, Geoff Whitman
Sustainability Research Institute, University of Leeds, Leeds, United Kingdom (s.dessai@leeds.ac.uk)

10:30 Coffee Break & Poster Sessions

11:30–13:00

11:30–11:45: EMS2014-14 (YSTA)

Projected changes of percentile-based precipitation indices for the 21st century in Central/Eastern Europe

Anna Kis, Rita Pongrácz, Judit Bartholy
Dept. of Meteorology, Eötvös Loránd University, Budapest, Hungary (kisanna@nimbus.elte.hu, prita@nimbus.elte.hu, bartholy@caesar.elte.hu)

11:45–12:00: EMS2014-403

Climate changes over Central Europe for 2050 based on a dynamical downscaling with the interactive GEM-AC model

Joanna Struzewska, Jacek W. Kaminski
Warsaw University of Technology, Department of Environmental Engineering, Warsaw, Poland (joanna.struzewska@is.pw.edu.pl)

12:00–12:15: EMS2014-467

Multi-model ensemble projections for temperature and precipitation in Portugal

Cristina Andrade, João Santos
Instituto Politécnico de Tomar, Escola Superior de Gestão de Tomar, Área Interdepartamental de Matemática, Tomar, Portugal (c.andrade@ipt.pt), Centre for the Research and Technology of Agro-Environmental and Biological Sciences, University of Trás-os-Montes e Alto Douro, Vila Real, Portugal

12:15–12:30: EMS2014-518

Possible changes in evapotranspiration, air humidity and irrigation characteristics in Slovakia

Milan Lapin, Ingrid Damborská, Ján Hrvol', Martin Gera, Marián Melo
Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava, Slovakia (lapin@fmph.uniba.sk)

12:30–12:45: EMS2014-292

Changes in global ocean wave heights as projected using multimodel CMIP5 simulations

Xiaolan L. Wang, Yang Feng, Val R. Swail
Climate Research Division, Science and Technology Branch, Environment Canada, Toronto, Canada (xiaolan.wang@ec.gc.ca)

12:45–13:00: EMS2014-616

Decrease of future storminess partially compensates for sea level rise effect on water level maxima along the Mediterranean Sea coast

Piero Lionello, Dario Conte, Luigi Marzo, Luca Scarascia

University of Salento, DISTEBA, Lecce, Italy
(piero.lionello@unisalento.it), CMCC, Lecce, Italy

END OF ORAL PROGRAMME UC2

Communication and Education

CE4 Education

Convener: Tomas Halenka

Lecture Room: Tycho

08:30–10:30

Chairperson(s): Tomas Halenka

08:30–08:45: EMS2014-626

Sharing educational resources

Tomas Halenka

Charles University in Prague, Prague, Czech Republic
(tomas.halenka@mff.cuni.cz)

08:45–09:00: EMS2014-102

Informal education and outreach at the Met Office

Felicity Liggins

Met Office, Exeter, United Kingdom
(felicity.liggins@metoffice.gov.uk)

09:00–09:30: EMS2014-642

The outreach of the Eumetcal Project, the European network supporting the meteorological training in Europe (solicited)

Alessandro Chiariello, Tero Siili

Finnish Meteorological Institute

09:30–09:45: EMS2014-398

A crowd-based approach to the production of educational material for young disabled scientists

Tony Dart

LTD Seeing Ear, United Kingdom
(tony@seeingear.org)

09:45–10:00: EMS2014-71

Climate Literacy and Curriculum development for Climate-Change Education

Yukimasa Tsubota

Meteorological Laboratory, J. F. Oberlin University, Tokyo, Japan (tsubota@obirin.ac.jp)

10:00–10:15: EMS2014-625

New ECTOM - European catalogue of training opportunities in meteorology

Tomas Halenka, Michal Belda

Charles University in Prague, Prague, Czech Republic
(tomas.halenka@mff.cuni.cz)

10:15–10:30: EMS2014-11

We meteorologists cannot escape probabilities!

Anders Persson

Swedish Meteorological Society, Norrköping, Sweden
(andersoscar.persson@gmail.com)

END OF ORAL PROGRAMME CE4

The Atmospheric System and its Interactions

ASI2 Meteorology, climate and space weather: science, applications and coordination

Convener: Mauro Messerotti

Co-Conveners: Annika Seppälä; David R. Jackson; Suzy Bingham

Lecture Room: Nadir

08:30–10:30

Chairperson(s): David Jackson

08:30–09:00: EMS2014-652

Challenges in extending meteorological operations to space weather (solicited)

Jérôme Lafeuille, Terry Onsager

World Meteorological Organization (WMO-OMM) Chief, Space-based Observing System Division
(jlafeuille@wmo.int)

09:00–09:30: EMS2014-521

Large scale circulation in connection with the solar cycle forcing

Petr Pisoft, Aleš Kuchař, Petr Šácha

Charles University in Prague, Faculty of Mathematics and Physics, Department of Meteorology and Environment Protection, Czech Republic
(petr.pisoft@mff.cuni.cz)

09:30–10:00: EMS2014-320

Equatorial Circulation Changes in the Mesosphere and Lower Thermosphere during Stratospheric Sudden Warming Events

Toshihiko Hirooka, Tsuyoshi Ohata, Koki Iwao, Nawo Eguchi

Department of Earth and Planetary Sciences, Kyushu University, Fukuoka, Japan
(hirook@geo.kyushu-u.ac.jp)

10:00–10:30: EMS2014-194

Response of the lower atmosphere to changes in the global atmospheric electric circuit associated with solar wind variability

Mai Mai Lam, Gareth Chisham, Mervyn P. Freeman

British Antarctic Survey, Climate (Space Weather), Cambridge, United Kingdom (mml@bas.ac.uk)

10:30 Coffee Break & Poster Sessions

11:30–13:00**Chairperson(s):** Mauro Messerotti**11:30–12:00: EMS2014-575**

Influence of space weather on atmospheric electricity and water cycle

Vladimir Chukin, Ulugbek Shermuhamedov, Muthanna Al-Tameemi
Russian State Hydrometeorological University, Saint-Petersburg, Russian Federation
(chukin@meteolab.ru)**12:00–12:15: EMS2014-503**

The equatorial lower ionosphere like indicator of solar activity and tropical cyclone action

Liudmila Vanina-Dart
Space Research Institute, Moscow, Russia
(vandart@seeingear.org)**12:15–12:30: EMS2014-485**

The landing hurricanes influence to ionosphere

Liudmila Vanina-Dart
Space Research Institute, Moscow, Russia
(vandart@seeingear.org)**12:30–13:00: Concluding remarks****END OF ORAL PROGRAMME ASI2**

ASI5/CE7 Biometeorology (co-organized)

Convener: Andreas Matzarakis**Co-Convener:** Tanja Cegnar**Lecture Room:** Taurus**08:30–10:30****Chairperson(s):** Panagiotis Nastos**08:30–08:45: EMS2014-13**

Review of recent results in modeling heat - mortality relation in Belgrade (Serbia)

Gorica Stanojević, Vlasta Kokotović, Jelena Stojilković, Aleksandra Spalević, and Yaroslav Vykylyuk
Geographical Institute "Jovan Cvijić" of the Serbian Academy of Sciences and Arts, Belgrade, Serbia**08:45–09:00: EMS2014-351**

Contrasting patterns of hot spell effects on morbidity and mortality for cardiovascular diseases in the Czech Republic, 1994-2009

Hana Davidkovová, Jan Kyselý, Eva Plavcová, Jan Kynčl, Bohumír Kříž
Institute of Atmospheric Physics AS CR, Prague, Czech Republic (davidkov@ufa.cas.cz), Faculty of Science, Charles University, Prague, Czech Republic**09:00–09:15: EMS2014-349**

Spatial patterns of links between temperature extremes and cardiovascular mortality and morbidity in the Czech Republic

Ales Urban, Katrin Burkart, Jan Kyselý
Institute of Atmospheric Physics AS CR, Prague, Czech Republic (urban@ufa.cas.cz, kyselý@ufa.cas.cz), Faculty of Science, Charles University, Prague, Czech Republic**09:15–09:30: EMS2014-281**Towards a Weather Forecast for Migraine Sufferers
Tija Sile, Liga Bekere, Daiga Cepite-Frisfelde, Uldis Bethers

University of Latvia, Laboratory for Mathematical Modelling of Environmental and Technological Processes, Riga, Latvia (tija.sile@lu.lv)

09:30–09:45: EMS2014-321

Quantification of sleep disturbance by nighttime temperature rise for assessment by DALY

Tomohiko Ihara, Yuya Takane, Yutaka Genchi
The University of Tokyo, Kashiwa, Japan
(ihara-t@k.u-tokyo.ac.jp)**09:45–10:15: Presentation poster (each 5 minutes)****10:15–10:30: Discussion Biometeorology****END OF ORAL PROGRAMME ASI5/CE7**

ASI6 Atmospheric measurements from the local to the regional scale: Concepts, new technologies and scientific progress

Convener: Frank Beyrich**Co-Convener:** Fred C. Bosveld**Lecture Room:** Leo + Virgo**08:30–10:30****Chairperson(s):** F. Bosveld**Wind and Turbulence****08:30–08:45: EMS2014-588**

Capabilities of Doppler SODAR and Doppler Lidar for the Derivation of Turbulence Parameters

Hans-Juergen Kirtzel, Gerhard Peters, Bram van Kesteren
Metek GmbH, Elmshorn, Germany**08:45–09:00: EMS2014-184**

Use of a Doppler wind lidar for estimating a combination of wind measurements and turbulence parameters

Bram van Kesteren, Frank Beyrich
Meteorological Observatory Lindenberg - Richard Aßmann Observatory, German Meteorological Service (DWD), Lindenberg, Germany**09:00–09:15: EMS2014-277**

Comparison of three-dimensional wind measurements by wind-lidars and a sonic anemometer

Ebba Dellwik, Jakob Mann, Mikael Sjöholm, Nikolas Angelou, Torben Mikkelsen
DTU, Wind Energy Department, Roskilde, Denmark
(ebde@dtu.dk)

09:15–09:30: EMS2014-216

In-Situ Turbulence Measurements With Unmanned Research Aircraft in the Atmospheric Boundary Layer
Jens Bange, Norman Wildmann
 University of Tübingen, Centre for Applied Geoscience, Tübingen, Germany (jens.bange@uni-tuebingen.de)

09:30–09:45: EMS2014-510

A thorough comparison of simultaneous observations of the temperature structure parameter by scintillometers, sonics and unmanned aircraft
 Miranda Braam, **Frank Beyrich**, Arnold Moene, Bram van Kesteren, Jens Bange, Andreas Platis, Sabrina Martin, Björn Maronga
 Deutscher Wetterdienst, Meteorologisches Observatorium Lindenberg, Tauche - OT Lindenberg, Germany (frank.beyrich@dwd.de)

09:45–10:00: EMS2014-224

Airborne Measured Spatially Resolved Turbulent Structure Parameters of Temperature and Moisture Above a Flat but Heterogeneous Surface
Jens Bange, Andreas Platis
 University of Tübingen, Centre for Applied Geoscience, Tübingen, Germany (jens.bange@uni-tuebingen.de)

10:00–10:15: EMS2014-499

Sampling the atmospheric boundary layer on a moving platform; wind observations derived from hot air balloon flights.
Cisco de Bruijn, Siebren de Haan
 Royal Netherlands Meteorological Institute (KNMI), Weather Research, De Bilt, Netherlands (cisco.de.bruijn@knmi.nl)

10:15–10:30: Poster Introduction
10:30 Coffee Break & Poster Sessions
11:30–13:00

Chairperson(s): J. Bange

Humidity, Clouds and Precipitation
11:30–11:45: EMS2014-309

Absolutely calibrated Raman lidar as a reference in atmospheric humidity profiling
Valentin Simeonov
 EPFL, ISTE, EFLUM, Lausanne, Switzerland (valentin.simeonov@epfl.ch)

11:45–12:00: EMS2014-308

Kite/balloon born sensor-unit lift system for very high resolved micro meteorological profile measurements under field campaign conditions
Nils Hempelmann, Christian Gurk, Frank Helleis, Walter Sauf, Verena Weiss, Franz X. Meixner
 Max Planck Institute for Chemistry, Mainz, Germany, (info@nilshempelmann.de), tiniaAnalyses, Hamburg, Germany

12:00–12:15: EMS2014-259

New optical package and algorithms for the accurate cloud cover estimation for short wave parameterization.
Mikhail Krinitskiy, Alexey Sinitsyn, Sergey Gulev
 P.P.Shirshov Institute of Oceanology, RAS, SAIL, Moscow, Russian Federation (sinitsyn@sail.msk.ru)

12:15–12:30: EMS2014-492

PATTERN: Combining different radars for improved precipitation estimates
Marco Clemens, Katharina Lengfeld, Claire Merker, Hans Münster, Felix Ament
 Meteorologisches Institut, Universität Hamburg, Germany

12:30–12:45: EMS2014-379

A Novel Method for Absolute Calibration of Radars
Claire Merker, Katharina Lengfeld, Marco Clemens, Hans Münster, Ulrich Görsdorf, Felix Ament
 Meteorological Institute, University of Hamburg, Germany

12:45–13:00: EMS2014-155

Evaluating satellite-based diurnal cycles of precipitation in the African tropics
Uwe Pfeifroth, Joerg Trentmann, Bodo Ahrens
 Deutscher Wetterdienst, Climate Monitoring, Offenbach, Germany, Goethe University Frankfurt, Institute for Atmospheric and Environmental Sciences, Frankfurt, Germany

END OF ORAL PROGRAMME ASI6

Side Meetings & Workshops

SIM3 CORECLIMAX Capacity Building Workshop - Climate Services: Products and tools to make choices (public)

Convener: Bob Su
 Co-Convener: Wim J. Timmermans
 Lecture Room: Aquarius

For details see page 79.

08:30–14:00

Announcement of poster award recipient

Foyer, Exhibition and Poster Area

13:15–14:00

European Conference on Applied Climatology (ECAC)

Understanding processes and climate change

UC2 Climate prediction and scenarios on decadal to centennial timescales

Convener: Christof Appenzeller

Co-Conveners: Clare Goodess; Jean-Pierre Céron; Martin Widmann

Poster Area: Meridian Left Back

Attendance Time: 10:30–11:30

LB6: EMS2014-125

Stochastic modelling of daily precipitation over complex topography consistent with the space-time covariance of present-day observations

Denise E. Keller, Andreas M. Fischer, Christoph Frei, Mark A. Liniger, Christof Appenzeller, Reto Knutti
Federal Office of Meteorology and Climatology MeteoSwiss, Zürich, Switzerland
(Denise.Keller@meteoswiss.ch), Center for Climate Systems Modeling (C2SM), ETH Zurich, Switzerland

LB7: EMS2014-128

Projected changes in precipitation intensity and frequency over complex topography: a multi-model perspective

Andreas Fischer, Denise Keller, Mark Liniger, Jan Rajczak, Christoph Schär, Christof Appenzeller
Federal Office of Meteorology and Climatology MeteoSwiss, Climate Services, Zurich, Switzerland
(andreas.fischer@meteoswiss.ch)

LB8: EMS2014-172

Climate change scenarios over Switzerland: assessing the added value of dynamical downscaling

Elias M. Zubler, Andreas M. Fischer, Mark A. Liniger, Christof Appenzeller
MeteoSwiss, Federal Office of Meteorology and Climatology, Zurich, Switzerland
(elias.zubler@meteoswiss.ch)

LB9: EMS2014-476

Statistical downscaling of subdaily temperature and precipitation in the Bârlad catchment (Eastern Romania), by means of artificial neural networks

Marius-Victor Birsan, Alexandru Dumitrescu
Meteo Romania, Department of Climatology, Bucharest, Romania (marius.birsan@gmail.com)

LB10: EMS2014-330

Validation of precipitation indices from ALARO-Climate RCM for 25 km and 6 km resolutions in the Czech Republic

Stanislava Kliegrova, Lucie Pokorna, Ladislav Metelka, Petr Stepanek, Radmila Brozkova, Ales Farda
Czech Hydrometeorological Institute, Czech Republic
(stanislava.kliegrova@chmi.cz)

LB11: EMS2014-353

Relationships between circulation indices and precipitation in the Mediterranean in an ensemble of regional climate models

Romana Beranová, Santiago Beguería, Ladislav Gaál, Martin Hanel, Jan Kyselý
Institute of Atmospheric Physics AS CR, Prague, Czech Republic (rber@ufa.cas.cz, kysel@ufa.cas.cz), Dept. of Applied Mathematics, Technical University of Liberec, Czech Republic

LB12: EMS2014-593

Multi-Decadal Climate Information for Agricultural Planning in Southeastern South America

Ángel G. Muñoz, Lisa Goddard
International Research Institute for Climate and Society (IRI). Earth Institute. Columbia University. Palisades, New York. USA
(agmunoz@iri.columbia.edu)

LB13: EMS2014-60

Water vapor emission in the region 8-12.5 microns and its importance as a feedback of the climate change

Elba E. Villanueva, Victor M. Mendoza, René Garduño, Julián Adem
Centro de Ciencias de la Atmósfera, UNAM, México
(eevu@atmosfera.unam.mx)

LB14: EMS2014-400

Can feedback analysis be used to understand efficacy differences between radiative forcings?

Michael Ponater, Vanessa Rieger, Simone Dietmüller
DLR-Institute for Physics of the Atmosphere, Oberpfaffenhofen, Germany

LB15: EMS2014-477

The deviation of semi-enclosed basin sea level from the global mean level: the case of Mediterranean and Black Sea during the 20th and 21st century.

Luca Scarascia, Piero Lionello
CMCC, Lecce, Italy (luca.scarascia@cmcc.it)

LB16: EMS2014-646

A Framework for Regional Wind-Wave Climate Scenarios

Jorge Perez, Melisa Menendez, Paula Camus, Fernando J. Mendez, Inigo J. Losada
Environmental Hydraulics Institute "IH Cantabria", Universidad de Cantabria, Spain

END OF POSTER PROGRAMME UC2

UC3 Climate forecast verification

Convener: Pertti Nurmi
Co-Convener: Caio Coelho
Poster Area: Meridian Left Back
Chairperson(s): NN
Attendance Time: 10:30–11:30

LB17: EMS2014-74

Evaluation of oceanic parameters from seasonal forecasts of the MPI-ESM coupled model
Sabrina Plagemann, Kristina Fröhlich, Barbara Früh
 Deutscher Wetterdienst, Offenbach, Germany
 (sabrina.plagemann@dwd.de)

LB18: EMS2014-325

Variability of air temperature in simulations of regional climate model ALADIN-Climate/CZ and driving model ARPEGE over Europe and dependence on the size of integration domain
Lenka Crhova, Eva Holtanova, Jaroslava Kalvova
 Charles University in Prague, Faculty of Mathematics and Physics, Department of Meteorology and Environmental Protection, Prague, Czech Republic
 (crhoval@gmail.com)

END OF POSTER PROGRAMME UC3

Communication and Education

CE4 Education

Convener: Tomas Halenka
Poster Area: Meridian Right Back
Chairperson(s): Tomas Halenka
Attendance Time: 10:30–11:30

RB1: EMS2014-165

Use of virtual research laboratory prototype in environmental education
Yulia Gordova, Tamara Shulgina, Yulia Martynova
 IMCES SB RAS, Tomsk, Russian Federation
 (yulia@scert.ru)

RB2: EMS2014-169

Education in Meteorology and Acoustic measurement methods
Armin Raabe, Manuela Barth, Frank Weiße
 Universität Leipzig, Institut für Meteorologie, Leipzig, Germany (RAABE@UNI-LEIPZIG.DE)

RB3: EMS2014-512

Education for Pupils and People: The “Weather Museum” in Lindenberg
 Bernd Stiller, **Frank Beyrich**
 Wettermuseum e.V. Lindenberg, Herzberger Str. 21, 15848 Tauche - OT Lindenberg, Germany, Deutscher Wetterdienst, Meteorologisches Observatorium Lindenberg, Tauche - OT Lindenberg, Germany
 (frank.beyrich@dwd.de)

END OF POSTER PROGRAMME CE4

The Atmospheric System and its Interactions

ASI2 Meteorology, climate and space weather: science, applications and coordination

Convener: Mauro Messerotti
Co-Conveners: Annika Seppälä; David R. Jackson; Suzy Bingham
Poster Area: Meridian Right Back
Chairperson(s): Suzy Bingham
Attendance Time: 10:30–11:30

RB4: EMS2014-55

The 11-yr solar cycle in MERRA reanalysis and CCM SOCOL v3.0
Michal Kozubek, Peter Krizan, Eugene Rozanov
 Institute of Atmospheric Physic, Prague, Czech Republic (kozubek.michal@ufa.cas.cz)

RB5: EMS2014-531

Possible link between solar activity and tropospheric circulation over Europe
Hana Kapoiková, Radan Huth
 Slovak Hydrometeorological Institute, Bratislava, Slovakia

RB6: EMS2014-497

The tropical cyclones influence to Australian ionosphere in 2011-2014 years
Liudmila Vanina-Dart, Tony Dart, Sharkov Evgenij
 Space Research Institute, Moscow, Russia
 (vandart@seeingear.org)

END OF POSTER PROGRAMME ASI2

ASI5/CE7 Biometeorology (co-organized)

Convener: Andreas Matzarakis
Co-Convener: Tanja Cegnar
Poster Area: Meridian Right Back
Chairperson(s): Dominik Fröhlich
Attendance Time: 10:30–11:30

RB7: EMS2014-291

Verification of the CHMI's Biometeorological Forecast with Use of Medical Data from Emergency Medical Service in Ústí nad Labem
Martin Novak
 Czech Hydrometeorological Institute, Regional Branch in Usti n.L., Kockovska 18, 400 11 Usti n.L., Czech Republic (novakm@chmi.cz), Charles University in Prague, Faculty of Science, Department of Physical Geography and Geocology, Albertov 6, 128 43 Praha 2, Czech Republic

RB8: EMS2014-295

Influence of atmospheric conditions in RSV infection in Portugal

Marinela Santos, Joana Soares, **João Andrade**

Santos, Ana Dias, Márcia Quaresma

Centre for the Research and Technology of Agro-environmental and Biological Sciences, CITAB, Universidade da Trás-os-Montes e Alto Douro, UTAD, Vila Real, Portugal (jsantos@utad.pt)

RB9: EMS2014-61

Numerical simulations of outdoor heat stress maps in the 23 wards of Tokyo, Japan

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RB10: EMS2014-116

Assessment of human thermal bioclimatic conditions in complex micro environments within the Athens University Campus, Greece

Iliana D. Polychroni, Panagiotis T. Nastos

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RB11: EMS2014-307

A projection of the rural and urban human thermal comfort in the Netherlands

Roy Molenaar, Bert Heusinkveld, Gert-Jan Steeneveld

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END OF POSTER PROGRAMME ASI5/CE7

ASI6 Atmospheric measurements from the local to the regional scale: Concepts, new technologies and scientific progress

Convener: Frank Beyrich

Co-Convener: Fred C. Bosveld

Poster Area: Meridian Right Back

Chairperson(s): F. Beyrich

Attendance Time: 10:30–11:30

RB12: EMS2014-430

The evapotranspiration determined by scintillometry, Bowen Ratio/Energy Balance and aerodynamic method over agricultural fields in Central Europe

Gabriela Pozníková, Milan Fischer, Matěj Orság,

Zdeněk Žalud, Miroslav Trnka

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RB13: EMS2014-227

Flux-Gradient Technique with Ammer Valley Surface Layer Measurement Network

Joe Smith, David Tupman, Jens Bange

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RB14: EMS2014-121

Micrometeorology at a scale of a lysimeter

Armin Raabe, Manuela Barth, Michael Wilsdorf,

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RB15: EMS2014-153

Estimation of surface albedo in the Brazilian Amazon using high spatial resolution satellite imagery

Gabriel de Oliveira, Elisabete Caria Moraes, Yosio

Edemir Shimabukuro, Thiago Veloso dos Santos

National Institute for Space Research, Remote Sensing Division, Brazil (gdo@dsr.inpe.br)

RB16: EMS2014-514

A one year comparison of 482 MHz wind profiler radar and 1.55 μm Doppler Lidar wind measurements

Eileen Päsckke, Ronny Leinweber, Volker Lehmann

Deutscher Wetterdienst, Meteorologisches

Observatorium Lindenberg, Tauche - OT Lindenberg, Germany

RB17: EMS2014-67

Microbarograph measurements in the Czech Republic.

Seasonal and diurnal variability of pressure fluctuations in the infrasound frequency range

Tereza Sindelarova, Michal Kozubek, Peter Krizan

Institute of Atmospheric Physics ASCR, Prague 4, Czech Republic (tersin@ufa.cas.cz)

RB18: EMS2014-223

Estimation of the structure characteristic of refractive index of air from coherent Doppler lidar data

Viktor Banakh, Igor Smalikho, **Stephan Rahm**

Institute for Atmospheric Physics, German Aerospace Center (DLR)

RB19: EMS2014-601

Determination of the atmospheric boundary-layer height over Sofia based on lidar and radiosoundings data

Orlin Gueorguiev, Nikolay Kolev, Tsvetina Evgenieva,

Evgeni Donev, Plamen Savov, **Ekaterina**

Batchvarova, Ivan Kolev

National Institute of Meteorology and Hydrology, Bulgarian Academy of Sciences, Sofia, Bulgaria;

RB20: EMS2014-459

A high quality reprocessed GPS integrated water vapour dataset for atmospheric process studies, model evaluation and assimilation into HYMEX SOP reanalysis

Olivier Bock, Pierre Bosser, Rosa Pacione, Jose

Antonio Sanchez Sobrino, Mathieu Nuret, Nadia

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RB21: EMS2014-326

Water-vapour variability over the mountainous island Corsica during the HyMeX field campaign
Norbert Kalthoff, Bianca Adler, Martin Kohler, Jan Handwerker, Andreas Wieser, Ulrich Corsmeier, Christoph Kottmeier, Dominique Lambert, Olivier Bock
 Institut für Meteorologie und Klimaforschung (IMK-TRO), Karlsruher Institut für Technologie (KIT), Karlsruhe, Germany

RB22: EMS2014-103

CONVECTION IN AMAZONIA: what is the role of large clearings to enhance the rainfall?
Gilberto Fisch
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 (fisch.gilberto@gmail.com)

RB23: EMS2014-314

Planetary Boundary Layer Dynamics: optical emission and space-time resolved spectroscopy
 Adrian Timofte, Marius-Mihai Cazacu, Bogdan Albina, Georgiana Dascalu, Dan-Gheorghe Dimitriu,
Silviu-Octavian Gurlui
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RB24: EMS2014-101

Contribution and limitations of the MMR50 meteorological radar (X-band) regarding the crisis management of the Zlín Region
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RB25: EMS2014-634

Large-Eddy Simulation Study for Fetch Effect over Forest Canopy
Mei-Kuei Tu, Annika Nordbo, Farah Kanani, Janne Rinne, Siegfried Raasch, Timo Vesala, Antti Hellsten
 Department of Physics, University of Helsinki, Helsinki, Finland

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THE END

SAVE THE DATE

15th EMS Annual Meeting & 12th ECAM

07 – 11 September 2015

Sofia, Bulgaria | Kempinski Hotel

First announcement and call for session proposals: *early December 2014*

Call for abstracts: *February 2015*

Submission deadline: *mid-April 2015*

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