8th Annual Meeting of the European Meteorological Society

7th European Conference on Applied Climatology (ECAC)

Programme Book

Amsterdam, The Netherlands, 29 September - 3 October 2008
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Welcome

Dear colleagues, welcome to the Eighth EMS Annual Meeting and the Seventh European Conference on Applied Climatology (ECAC) that are being held jointly in Amsterdam. These two meetings are aimed at bringing together scientists, National Weather Services, service providers, users, decision makers and manufacturers from across Europe and the programme has been designed to provide opportunities for discussions on future strategies in climatology and meteorology and the provision of climatological and meteorological services for society. And, of course, welcome to the bustling city of Amsterdam, with its charm and cultural attractions that will provide an inspiring environment for the five-day conference that lies ahead.

At a time when discussions on climate change and its impacts pervade every corner of society and its consequences are being felt in almost all the sectors of the economy, these meetings will, we hope, help to develop the societal information and benefits to meet the challenges of climate change. Both, the ECAC and the EMS programme reflect these challenges.

The theme of our meetings is “Adaptation”, highlighting the growing need for improved services that go beyond forecasting and warning systems and these improved services will need to involve stakeholders and decision makers alike.

Confronting these challenges, the ECAC programme includes an entirely new concept where sessions that discuss the understanding and prediction of climate have been twinned with sessions on adaptation to climate change and variability in various societal and economic sectors. The adaptation programme will cover an entire day. It will open with a plenary session on generic approaches to adaptation and end with a plenary that will summarize and discuss the results of the different breakout sessions that will be held between these plenary sessions.

The conference programme has five programme themes

- **Adaptation to Climate Change**
- **Understanding Climate**
- **Meteorology and Society**
- **Forecasting the weather at all time scales** – THORPEX studies, developments in NWP, applications and societal impacts
- **The Atmosphere and the Water Cycle**

The breadth of the conference programme reflects the challenges and tasks ahead.

A panel discussion devoted to *Communication on Climate Change* will focus on the different perspectives of scientists, journalists, stakeholders and policy makers.

During the conference week various organisations will use the opportunity to hold workshops, annual meetings and working group meetings, and we are delighted that these synergies are continuing to develop year on year. The conference will also feature an exhibition of companies involving manufacturers, service providers, publishing houses and European organisations. Fruitful exchange, network building, mutual inspiration is the underlying motivation for our meetings and we hope that during the week you will benefit accordingly.

The EMS and ECAC conferences would not have been possible without the work of the convenors that publicised and developed the sessions. We extend our sincere thanks for their commitment and hard work. We are also grateful to all who have contributed to make this meeting in Amsterdam a reality – the National Meteorological Service of the Netherlands (KNMI) that hosts the conference, the EMS Member Societies and Associates, the ECAC Advisory Board, the Copernicus organization, the Exhibitors.

It is expected that the conference will be attended by more than 500 participants and about 400 oral presentations will be given during the entire week. There will be poster sessions on Tuesday and Thursday evening and there will be ample opportunity to discuss more than 300 posters. We are looking forward to a very interesting and enjoyable week.

*David M. Burridge (EMS President)*
*Frits Brouwer (Director-General KNMI)*
*Aryan van Engelen (ECSN Manager, Chair ECAC Advisory Board)*
Location and Conference Address
The 8th EMS / 7th ECAC is held at the Amsterdam RAI, The Netherlands, from 29 September – 3 October 2008. The congress is open to the scientists of all nations.

Congress Centre
Amsterdam RAI
Europaplein 22
1078 GZ Amsterdam, The Netherlands
Tel: +31-20-549-1212
Fax: +31-20-646-4469
http://www.rai.nl

The congress centre is fully wheelchair accessible. The session programme will take place in the Forum Auditorium on the ground floor and lecture rooms L, M and N on the first floor.

Local Transport
A map is given on the inside front cover of the programme book.

By Tram & Bus
If you arrive at Amsterdam Central Station (CS), you can take the Amstelveen express tram 51 (travelling time: 12 minutes, exit at the Amsterdam RAI station) or tram 4 (travelling time: 30 minutes, exit at the RAI Europaplein). If you are travelling by train to the Amstel station, you can take the Amstelveen express tram 51 (travelling time: 5 minutes) or the bus (route 15, 69 or 169), which will bring you to the RAI within 10 minutes. In this case you should get off at RAI Europaplein. From Amsterdam Sloterdijk station, the best way to reach the RAI is with express tram 50.

The cheapest option to get around by tram, bus and metro is the "stripenkarte", which may be purchased at the ticket office at the Central station, post offices and most bookstores, tobacco shops and supermarkets.

By Metro
From Amsterdam Central Station (CS) or Amstel Station Metro Number 50 (direction Isolatorweg) and Number 51 (direction Westwijk) will bring you to RAI station.

By Train
NS-station Amsterdam RAI is 300 meters from the RAI and has regular connections to all parts of the Netherlands, like Schiphol, Rotterdam, Utrecht, The Hague and is also linked to the international rail network.

By Car
The RAI is ideally suited for visitors who come by car. It is situated alongside the Amsterdam’s A10 orbital motorway (exit S109) and has its own underground car parks. All the main motorways can be reached without difficulty from the orbital motorway.

Rules of Conduct
• Smoking is prohibited in the entire congress centre.
• It is prohibited to copy any presentation from the desktops in the lecture rooms.
• Please switch off any mobile phones in the lecture rooms.
• It is prohibited to take photos of any scientific material at the conference.

Official Language
The official language of the 8th EMS / 7th ECAC is English. Simultaneous interpretation is not provided. It is therefore expected that authors are able to present their research more or less fluently in the English language.

Insurances
The organizers cannot accept liability for personal accident, loss or damage to private property, which may be incurred as a result of the participation in the 8th EMS / 7th ECAC. Participants are, therefore, advised to arrange appropriate insurance cover. This should extend not only to travel but also to cancellation costs.

Conference Presentations on Internet
If you are interested that your presentation be made publicly available on the Internet, then send an e-mail after 5 October 2008 to presentation_emsecac2008@emetsoc.org
• giving your agreement that the presentation be made public,
• sending the file to be published in PDF-format and no larger than 1.5MB in size.
Any file larger than the given threshold will not be uploaded. Deadline for receipt of presentations is 15 December 2008.

Icebreaker Reception & Silver Medal Awards Ceremony
Location: Ruby Lounge
Date: Monday, 29 September 2008, 19:00–21:00

Recycling of Name Badges
When you leave the conference please recycle your name badge at the Registration & Information Desk.
Services (in alphabetical order)

**Pharmacy**
Pharmacy Rivieren  
Maasstraat 135/137  
1078 HE Amsterdam  
Tel: +31-20-6425595

Maas Pharmacy  
Maasstraat 71  
1078 HE Amsterdam  
Tel: +31-20-6641038

**Post Box**
There is a post box nearby the entrance to the Forum (entrance E).

**Photocopies**
A business centre providing photocopies and print-outs of files can be found in the Auditorium (Entrance G).

**Public Telephone**
Public telephones are located in the Forum Lounge near the cloakroom. They operate on credit cards.

**Hotel & Travel Service**
RAI Hotel & Travel Service  
Postbus 77777  
1070 MS Amsterdam  
The Netherlands  
Tel: +31-20-549-1927  
Fax: +31-20-549-1946  
hotelservice@rai.nl

**WLAN (WiFi)**
WLAN (WiFi) is available free of charge in all public areas. Also, Internet Terminals are located in the cybercafé in the Ruby Lounge.

**Registration & Abstract Management**
Copernicus GmbH  
Max-Planck-Str. 13  
37191 Katlenburg-Lindau  
Tel: +49-5556-99555-0  
Fax: +49-5556-99555-70  
meetings@copernicus.org  
www.copernicus.org

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**The themes of the conference:**
- Climate change education
- Earth System Science education
- Role of new technologies in meteorology, oceanography and climate education
- Enhancing public awareness of meteorology, oceanography and climate through the media
- Science, society and schools
- The role of learned societies in educational outreach
- Meteorology, oceanography and climate studies in the curriculum
- Teacher training
- Student-centered educational programs
- Instruments and automated weather stations for the classroom
- Education, outreach for the coastal and marine environment
- Promoting diversity and enhancing the involvement of under-represented groups
- Informal education for meteorology, oceanography, and climate studies
- International education programs and collaborations

* EWOC = Education: Weather, Oceans, Climate

Workshops and demonstrations on meteorological and oceanographic topics which feature hands-on activities for the classroom will be included in the program.

**For further information and pre-registration go to:**
www.ewoc2009.org

**Co-sponsors:**
the American Meteorological Society, the Royal Meteorological Society, the European Meteorological Society, the World Meteorological Organization and other meteorological and oceanographic societies and institutes around the globe
Registration & Information Desk
The registration & information desk is located in the Forum Lounge.

Opening Hours
Sunday, 28 September 2008
15:00–18:00
Monday–Thursday, 29 September – 2 October 2008
08:00–18:00
Friday, 3 October 2008
08:00–10:00

Oral Sessions
Monday, 29 September 2008
Timeblock 3 14:00–16:00
Break 16:00–16:30
Timeblock 4 16:30–18:30
Tuesday–Thursday, 30 September – 2 October 2008
Timeblock 1 08:30–10:30
Break 10:30–11:00
Timeblock 2 11:00–13:00
Lunch 13:00–14:00
Timeblock 3 14:00–16:00
Break 16:00–16:30
Timeblock 4 16:30–18:30
Friday, 3 October 2008
Timeblock 1 08:30–10:30
Break 10:30–11:00
Timeblock 2 11:00–13:00
Lunch 13:00–14:00
Timeblock 3 14:00–16:00

Poster Display Times
First Display Time
Monday–Tuesday, 29–30 September 2008, 08:00–20:00

Author in Attendance Time
Tuesday, 30 September 2008, 18:30–20:00
Authors are kindly requested to take down their posters on Tuesday, 30 September 2008, 20:00.

Second Display Time
Wednesday–Thursday, 1–2 October 2008, 08:00–20:00
Thursday, 2 October 2008, 08:00–13:00

Author in Attendance Time
Thursday, 30 September 2008, 18:30–20:00
Authors are kindly requested to put up their posters on Wednesday, 1 October 2008, 08:00 at the very earliest.
Posters are located in the Forum Lounge. Sticky tape is available at the registration & information desk.

Conference Committee
7th EMS Annual Meeting and
8th European Conference on Applied Climatology
David Burridge
Aryan van Engelen
Horst Böttger
Sylvain Joffre
Christof Appenzeller
Tanja Cegnar
Florrie de Pater
Heleen ter Pelkijk
Martina Junge

Breaks & Lunch
Coffee Breaks
10:30–11:00 and 16:00–16:30
Free coffee/tea will be served during the Coffee Breaks in the Forum Lounge and the Ruby Lounge.

RAI Snackbar
You can find a snackbar in the lounge of the Forum. It is open during the conference hours.

Nearby Bistros & Restaurants
Many restaurants can be found in de Scheldestraat (the street heading north from the RAI to the city), but also in other streets near the RAI. Below you can find a selection:

Vis aan de Schelde
Scheldeplein 4, Tel: +31-20-6751583, Fish restaurant (expensive)

Orbit
Scheldestraat 95, Tel: +31-20-6722922, Thai restaurant

't Vliegertje
Scheldestraat 79, Tel: +31-20-6798480, Bistro

Oceania
Scheldestraat 71/77, Tel: +31-20-6738907, Chinese restaurant

Rockefeller
Europaplein 2, Tel: +31-20-5491932, Bistro

Il Cavallino
Maasstraat 67, Tel: +31-20-6753814, Italian restaurant

Eau de Vie
Maasstraat 20, Tel: +31-20-6629588, French restaurant

Restaurant Due Mila
Maasstraat 40, Tel: +31-20- 673 74 59, Italian restaurant

Novotel
Europaboulevard 10, Tel: +31-20-5411123, hotel restaurant

Brasserie PAYS-BAS
Gustav Mahlerplein 14, Tel: +31-20-6420673, Bistro

Djago
Scheldeplein 18, +31-20-6642013, Indonesian restaurant
PASSION FOR PRECISION
in measuring Solar Radiation and Atmospheric Properties

Join our passion for the profession and attend the
Seminar on Solar Radiation Measurement
by our R&D Manager Dr. Joop Mes

Room M • Friday 3 October 2008 • 14:00 - 16:00 hours

Or visit our booth number 14 in the exhibition hall
EXHIBITION

Exhibition Time:
**Monday, 12:00–18:00**
**Tuesday–Thursday, 09:00–18:00**

Please use the opportunity to visit the Exhibition in the “Ruby Lounge”. You will find the exhibits of the following companies, institutions and societies (in alphabetical order):

**Association of Hydro-Meteorological Equipment Industry**
Booth #2
7 bis, Avenue de la Paix
1211 Geneve 2
Switzerland
Attn. B. Sumner
Tel: +41-22-730-8334
Fax: +41-22-730-8340
hmei@wmo.int
www.hydrometeoindustry.org

**Campbell Scientific Ltd.**
Booth #3
Campbell Park, 80 Hathern Road
Shepshed LE12 9GX
UK
Attn. I. Thornton and J. Lamping
Tel: +44-1509-601141
Fax: +44-1509-601091
iain.thornton@campbellsci.co.uk
www.campbellsci.co.uk

**Kipp & Zonen B.V.**
Booth #14
P.O. Box 507
2600 AM Delft
The Netherlands
Attn. P. Akkermans and B. Dieterink
Tel: +31-1527-55210
Fax: +31-1526-20351
patrick.akkermans@kippzonen.com
www.kippzonen.com

**Metek GmbH**
Booth #6
Fritz-Straßmann-Str. 4
25337 Elbmorn
Germany
Attn. S. Andersson and N. Flick
Tel: +49-4121-43590
Fax: +49-4121-435920
messe@metek.de
www.metek.de

**Meteo France International (MFI)**
Booth #8
Par Avenue - 9, Rue Michel Labrousse
31100 Toulouse
France
Attn. R. Dumeurger and Cedric Berg-eront
Tel: +33-561-432940
Fax: +33-561-432941
info@mfi.fr
www.mfi.fr

**METEOMODEM**
Booth #5
rue de Bessonville
77760 Ury
France
Attn. P. Remy and P. Charpentier
Tel: +33-160-747460
Fax: +33-160-747419
rpepin@meteomodem.com
www.meteomodem.com

**Scintec AG**
Booth #4
Europaplatz 3
72072 Tübingen
Germany
Attn. V. Thiermann and B. Schrauf
Tel: +49-7071-921410
Fax: +49-7071-551431
info@scintec.com
www.scintec.com

**Vaisala Oyj**
Cybercafé
P.O.Box 26
00421 Helsinki
Finland
Attn. S. Jay
Tel: +358-9-894-92973
Fax: +358-9-894-92485
sari.jay@vaisala.com
www.vaisala.com

**Wiley-Blackwell**
Booth #9
The Atrium, Southern Gate
Chichester, PO19 8SQ
UK
Attn. G. Eastwood and F. Murphy
Tel: +44-1865-476380
cs-books@wiley.co.uk
www.wiley.com
LOCATION MAPS

Forum Lounge
Ground Floor

8th EMS / 7th ECAC
29 September – 03 October 2008

Entrance to EMS&ECAC 2008
Ruby Lounge 
1st Floor

Forum - entrance from lounge on ground floor

8th EMS / 7th ECAC
29 September – 03 October 2008

Association of Hydro-Meteorological Equipment Industry #2
Campbell Scientific Ltd. #3
Scintec AG #4
METEOMODEM #5
METEK GmbH #6
METEO France International #8
Wiley-Blackwell #9
Kipp & Zonen BV #14
Vaisala (Cybercafé)
The Vaisala Group, specialist in environmental measurement technologies, welcomes you to the EMS Annual Meeting.

Please visit our Cybercafé, where you have the facilities to check your e-mail or browse the internet. We will be offering refreshments to visitors.

At our Cybercafé you also have the possibility to book a meeting with one of our esteemed weather measurement experts.

Vaisala is the internationally chosen partner in providing products, solutions and services for meteorological, environmental and industrial measurement.

Vaisala provides the fundamental tools and comprehensive systems for reliable forecasts and significant weather warnings.

High impact data of high impact weather.

www.vaisala.com
### 8th EMS / 7th ECAC 2008
#### Session Overview

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<th>Room M</th>
<th>Room N</th>
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<td>Opening (p. 14)</td>
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<td></td>
<td>14:00 – 16:00</td>
<td>UC1 (p. 19)</td>
<td>AW5 (p. 20)</td>
<td>AW3 (p. 19)</td>
<td>NWP1.2 (p. 21)</td>
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<td></td>
<td>16:30 – 18:30</td>
<td>UC1 (p. 19)</td>
<td>AW5 (p. 21)</td>
<td>AW3 (p. 19)</td>
<td>NWP1.2 (p. 21)</td>
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<td></td>
<td>19:00 – 21:00</td>
<td>Ice Breaker &amp; Silver Medal Awards Ceremony (Ruby Lounge)</td>
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<td><strong>Tuesday</strong></td>
<td>08:30 – 10:30</td>
<td>UC1 (p. 24)</td>
<td>AW10 (p. 27)</td>
<td>AW12 (p. 30)</td>
<td>NWP1.3 (p. 33)</td>
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<td></td>
<td>11:00 – 13:00</td>
<td>UC2/NWP4 (p. 26)</td>
<td>AW11.1 (p. 28)</td>
<td>AW12 (p. 30)</td>
<td>NWP1.4 (p. 34)</td>
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<td></td>
<td>14:00 – 16:00</td>
<td>UC2/NWP4 (p. 26)</td>
<td>AW11.1 (p. 28)</td>
<td>AW13 (p. 31)</td>
<td>NWP1.1 (p. 32)</td>
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<td></td>
<td>16:30 – 18:30</td>
<td>UC2/NWP4 (p. 27)</td>
<td>AW11.2 (p. 29)</td>
<td>AW13 (p. 31)</td>
<td>NWP1.1 (p. 33)</td>
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<td>18:30 – 20:00</td>
<td>Poster Sessions (Forum Lounge, Ground Floor)</td>
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<td><strong>Wednesday</strong></td>
<td>08:30 – 10:30</td>
<td>UC3 (p. 36)</td>
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<td>MS2 (p. 42)</td>
<td>AW8 (p. 40)</td>
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<td>11:00 – 13:00</td>
<td>UC3 (p. 36)</td>
<td>MS1 (p. 41)</td>
<td>AW1 (p. 38)</td>
<td>AW8 (p. 40)</td>
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<td></td>
<td>14:00 – 16:00</td>
<td>Communication on Climate Change – Panel discussion</td>
<td>UC4 (p. 37)</td>
<td>AW6 (p. 39)</td>
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<td></td>
<td>16:30 – 18:30</td>
<td>Communication on Climate Change – Panel discussion</td>
<td>UC4 (p. 38)</td>
<td>AW6 (p. 39)</td>
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<td></td>
<td>18:45 – 23:00</td>
<td>Conference Dinner (boat will leave exactly at 19:00 at the RAI harbour)</td>
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<tr>
<td><strong>Thursday</strong></td>
<td>08:30 – 10:30</td>
<td>AC0 (p. 16)</td>
<td>MS4 (p. 53)</td>
<td>AW2 (p. 51)</td>
<td>UC5 (p. 46)</td>
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<td></td>
<td>11:00 – 13:00</td>
<td>AC2 (p. 49)</td>
<td>AC5 (p. 50)</td>
<td>AC1 (p. 48)</td>
<td>UC5 (p. 47)</td>
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<td></td>
<td>14:00 – 16:00</td>
<td>AC4 continued until 17:00 after break (p. 50)</td>
<td>AC5 (p. 51)</td>
<td>AC3 (p. 49)</td>
<td>AW4 (p. 52)</td>
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<td></td>
<td>16:30 – 18:30</td>
<td>Adaptation Plenary: Panel Discussion</td>
<td>UC2/NWP4 (p. 44)</td>
<td>MS3 (p. 53)</td>
<td>AW4 (p. 52)</td>
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<td>18:30 – 20:00</td>
<td>Poster Sessions (Forum Lounge, Ground Floor)</td>
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<td><strong>Friday</strong></td>
<td>08:30 – 10:30</td>
<td>UC2/NWP4 (p. 56)</td>
<td>UC5 (p. 58)</td>
<td>AW7 (p. 58)</td>
<td>UC3 (p. 57)</td>
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<td></td>
<td>11:00 – 13:00</td>
<td>UC2/NWP4 (p. 57)</td>
<td>UC1 (p. 56)</td>
<td>AW7 (p. 58)</td>
<td>UC3 (p. 57)</td>
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<tr>
<td></td>
<td>14:00 – 16:00</td>
<td>UC2/NWP4 (p. 57)</td>
<td>UC1 (p. 56)</td>
<td>Radiation</td>
<td>Short Course</td>
</tr>
</tbody>
</table>

The Session Programme on page 18 – 59 for each day of the week is presented by Programme Group (UC – AC – AW – MS – NWP). The poster programme is normally listed after the end of the oral programme (exceptions: UC1 on Monday, UC2/NWP4 on Thursday and UC3 on Wednesday).
8th EMS / 7th ECAC 2008
Poster Sessions Overview & Author in Attendance Times

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<th>Day</th>
<th>Timeblock</th>
<th>Poster Area “Forum Lounge (Ground Floor)”</th>
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<tr>
<td>Tuesday</td>
<td>18:30–20:00</td>
<td>UC1 (p. 24)</td>
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<td></td>
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<td>AW3 (p. 20)</td>
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<td>AW10 (p. 27)</td>
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<td>Thursday</td>
<td>18:30–20:00</td>
<td>UC2/NWP4 (p. 45)</td>
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<td>UC3 (p. 37)</td>
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<td>UC4 (p. 38)</td>
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<td>AC1 (p. 48)</td>
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<td>AC2 (p. 49)</td>
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<td>MS2 (p. 42)</td>
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<td>MS3* (p. 53)</td>
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<td>MS4 (p. 54)</td>
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</tbody>
</table>

* posters are located in Room M

Wine, water and snacks are served during the Author in Attendance Times.

Please be aware that changes in the programme may occur after the page proof state of the programme book. For up-to-date information consult the online programme at http://meetings.copernicus.org/ems2008, and the "Daily Programme" displayed in front of the lecture rooms.
Side Meetings

Tuesday

18:45 – 20:00  EMS/ECAM 2009 Programme Committee
              Contact: Martina Junge

              Room O, First Floor

Wednesday

09:00 – 17:00  EUMETNET Working Group Environment
              Contact: Sylvain Joffre

              Room O, First Floor

Thursday

09:00 – 18:00  COST 728: Mesoscale modelling for air pollution applications
              Working Group meeting on parametrization schemes, online models, applications and model evaluation
              Contact: Ranjeet Sohki

              Room O, First Floor

09:00 – 18:00  COST 728: Mesoscale modelling for air pollution applications
              Working Group meeting on parametrization schemes, online models, applications and model evaluation
              Contact: Ranjeet Sohki

              Room N1-O1, First Floor

16:30 – 18:30  European Severe Storms Laboratory e.V.
              General Assembly
              Contact: Nikolai Dotzek

              Board Room, Ground Floor

Friday

9:00 – 18:00  COST 728: Mesoscale modelling for air pollution applications
              Case studies: results and model performance evaluation
              Contact: Ranjeet Sohki

              Room O, First Floor

14:00 – 18:30  CIRCE Workshop on modelling of the Mediterranean Climate
              Contact: Silvio Gualdi

              Room N, First Floor
Opening session

RAI Forum, 29 September 2008, 09:00 – 13:00

09:00 – 10:00 Welcome Addresses and Awards Ceremony

David Burridge, EMS President
Frits Brouwer, KNMI Director-General
Aryan van Engelen, ECSN Manager

J.C. Huizinga-Heringa, Secretary of State,
Ministry of Transport and Water Affairs, The Netherlands
Pier Vellinga, Free University of Amsterdam
Clare Goodess, ENSEMBLES
Ben Dieterink, HMEI

Awards Ceremony

EMS Young Scientist Travel Awards
EMS Young Scientist Award
Kipp & Zonen Award for Boundary Layer Meteorology

10:00 – 10:30 Coffee Break

10:30 – 13:00 Strategic Lectures

Chair: David Burridge

Jean Palutikof, IPCC WG II, Head TSU
- on the main messages from the IPCC Fourth Assessment Report: impacts of climate change

Michel Jarraud, Secretary-General WMO
“The evolving role of WMO in climate change adaptation”

André Jol, EEA Head of Group Climate Change & Energy
- on Impacts of and adaptation to climate change in Europe

Walter Dabberdt, AMS President
"A Perfect Storm? – The looming urban grand challenge"

Tim Palmer, ECMWF
"Seamless prediction of weather and climate: bringing the insights and constraints of NWP into the climate-change arena"

13:00 The End
Why should they believe us?
– Communication on Climate Change

RAI Forum, 1 October 2008, 14:00 – 18:30

14:00 – 15:45 Strategic Lectures

Facilitator/Chair: P. van der Geer
Director debate & dialogue, The Netherlands

Opening Presentation
To be announced

Tayloring climate information for adaptation strategies and measures
Dr. A Feit
KNMI, The Netherlands

From climate assessment to climate services
Prof. Dr. M Visbeck
Director IFM Geomar, Germany

Climate communication in the Netherlands
Dr. R van Dorland
KNMI, The Netherlands

A scientific view on communications
Prof. Dr. C van Woerkom
Wageningen University, The Netherlands

15:45 – 16:15 Coffee Break

16:15 – 17:30 Panel Discussion

Facilitator: P. van der Geer
Director debate & dialogue, The Netherlands

Panel:

To be announced

R. Black (invited)
BBC, United Kingdom

Dr. I. Meinke
Northern German climate office, GKSS Research Centre, Germany

Dr. F. Raes
JRC, ISPRA, Italy

Ir. J. van den Berg
DHV, The Netherlands

M. Helmer.
Climate Centre, Red Cross International

17:30 Press Conference
Dealing with climate change and climate variability is generally considered to be one of the largest challenges for the coming decades, on all geographical scales, across all economic sectors. The urgency to take action is more apparent than ever, yet clear guidance on exactly how to respond to the challenge of climate change is often lacking. A consensus, however, is emerging around the viewpoint that it is not only necessary to mitigate climate change by reducing greenhouse gas emissions but also to adapt to the inevitability of climate change by preparing for impacts and reducing vulnerability in all sectors.

The adaptation session will assess impacts of climate change, what adaptation strategies are available in Europe and what type of information, such as climate scenarios, is required to develop and evaluate the effectiveness of adaptation strategies in various sectors. The adaptation session also highlights bottlenecks and gaps in current knowledge and sets the agenda for science to better meet the requirements of end users and policy makers in the various sectoral domains (water, health, nature, finance, urban areas, agriculture, etc).

The general adaptation session AC0 starts with five keynote presentations of adaptation studies in different sectors and highlights the following issues:

- the type of climate scenarios needed for adaptation studies
- the type of effects that may appear under climate change and an assessment of the risks when adaptation policies are neglected
- the type of adaptation options available to mitigate climate vulnerability
- how EU and National policies support adaptation strategies or what policies are missing
- how stakeholders are involved in developing adaptation policies.

These five issues are key for the discussion in each of the break-out sessions AC1-AC5. Within each of these sessions, various presentations will highlight different aspects of each of these issues and at the end of the session a summary will be made as to how each issue is currently addressed in EU member states and what actions, policies and scientific information are still missing.

**Key note Programme (08:30 – 10:30)**

Prof. Jacqueline McGlade (Executive Director, European Environment Agency)
Prof. Dr. Peter Höppe (Head Geo Risks Research/Corporate Climate Centre, Munich RE)
Dr. Bettina Menne (Medical Officer Global Change and Health, WHO Regional Office for Europe)
Alex Nickson (Strategy Manager, Climate Change Adaptation and Water, Greater London Authority)
Ir. Rob Roggema (Manager Strategy and Integrated Spatial and Environmental Policy, Province of Groningen)

**Session feedback & Panel Discussion (17:00 – 18:30)**

The findings of each break out session will be reported back by the conveners in a plenary session where a discussion takes place with a panel of specialists:

*Panel members:*
- Prof. Dr. Pier Vellinga (Wageningen University)
- Prof. Dr. Peter Höppe (Munich RE)
- Dr. Marianne Kuipers-Linde (Geodan Next)
- Dr. Bettina Menne (World Health Organization)
- Alex Nickson (Greater London Authority)
- Maryam Golnaraghi (World Meteorological Organization)
Awards

Silver Medal Awards Ceremony, 29 September 2008, 19:30, Ruby Lounge

The EMS Silver Medal  Laureates 2008:

Karin Labitzke  Professor Emeritus, FU Berlin.
Silver Medal Lecture:  Variability in the Stratosphere: The Sun and the QBO
Monday, 29 September 2008
14:15 – 14:45
Room L

René Morin  First EMS President (1999 – 2002).
Silver Medal Lecture:  Social, Economic and Political Impact of Meteorology.
Wednesday, 1 October 2008
08:30 – 09:00
Room L

Young Scientist Travel Awards

Ivana Cvijanovic  The influence of shallow subsurface moisture and heat transport on the mass and energy balances at the land surface
Monday, 29 September 2008
18:15 – 18:30
Room M

Katja Matthes  Modelling Solar Cycle and QBO effects in the Atmosphere
Monday, 29 September 2008
14:45 – 15:00
Room L

Valerie Trouet  A multi-proxy reconstruction of multidecadal winter NAO variability over the past millennium
Wednesday, 1 October 2008
15:00 – 15:15
Room L

Linus Magnusson  A new method for ensemble prediction
Monday, 29 September 2008
16:30 – 16:45
Room N

Gabriella Szepszo  Preliminary results based on the climate change simulation with the REMO model over Carpathian Basin
Friday, 3 October 2008
15:30 – 15:45
Room L
Also: poster EMS2008-A-00645

John Hanley  Extreme midlatitude cyclones and their relationship to large-scale modes of variability in the Northern Hemisphere
Thursday, 2 October 2008
09:30 – 10:00, Room N

Anton Shkaruba  Classification of geophysical environments for stratified random sampling designs
Tuesday, 30 September 2008
14:15 – 14:30
Room M

The EMS Broadcast Meteorologist Award

Mr. Bill Giles (O.B.E) has quite literally spent his entire career forwarding the field of Broadcast Meteorology. His long professional career encompassed decades on air-work, culminating in his leadership of the team of Broadcast Meteorologists at the BBC Weather Centre. He has staunchly supported and helped to drive the developing industry of “scientifically sound” weather presentations with his constant mentoring of younger broadcasters.
The Award is presented on Wednesday, 1 October 2008, 12:30, Room L.

Also the TV Weather Forecast Trophy Award and the EMS Outreach & Communication Award will be presented at this time in Room L.
## Monday, 29 September 2008

### OPENING CEREMONY

9:00 – 13:00

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<tr>
<th>Time</th>
<th>Session Titles</th>
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<td>9:00</td>
<td>Forum</td>
<td>A-00072: Philipona, R</td>
<td>A-00071: Messerotti, M</td>
<td>A-00227: Couvreux, F</td>
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<td>9:00</td>
<td>UC1: Climate change Assessments: trends and variability – 1</td>
<td>A-00486: van Oldenborgh, GJ</td>
<td>A-00025: Labitzke, K Silver Medal Lecture</td>
<td>A-00148: Vila-G. de Arellano, J</td>
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<td>10:00</td>
<td>AW5: Interrelationships Earth &amp; Space Meteorology – 1</td>
<td>A-00302: Rebetez, M</td>
<td>A-00375: Matthes, K – YST4</td>
<td>A-00101: Montani, A</td>
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<td>10:00</td>
<td>AW3: Small scale processes – 1</td>
<td>A-00559: Wibig, J</td>
<td>A-00653: Rozanov, E</td>
<td>A-00069: Kuell, V</td>
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<td>10:00</td>
<td>NWP1.2: Ensemble Forecasting – 1</td>
<td>A-01010: Monteirô, A</td>
<td>A-00158: Pergaud, J</td>
<td>A-00092: Diomede, T</td>
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<td>11:00</td>
<td>AW3: Small scale processes – 2</td>
<td>A-00496: Bachner, S</td>
<td>A-00707: Tinsley, BA</td>
<td>A-00019: Webster, S</td>
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<td>11:00</td>
<td>NWP1.2: Ensemble Forecasting – 2</td>
<td>UC1: Climate change Assessments: trends and variability – 2</td>
<td>A-00019: Webster, S</td>
<td>A-00172: Gebhardt, C</td>
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Abstract numbers are abbreviated. The full abstract numbers that begin with "EMS2008-" are required for any inquiries. Only the name of the presenting author is given. Session titles may be short versions of the full session titles.
7th European Conference on Applied Climatology (ECAC)

UC1 Climate change assessments: trends and variability
- ORAL PROGRAMME

Convener: Jones, P.
Co-Conveners: Rebetez, M., Heino, R., Klein Tank, A.
Lecture Room: Forum
Chairperson: JONES, P.
14:00–14:30; EMS2008-A-00072
Philipona, P.
How declining aerosols and rising greenhouse gases forced rapid warming in Europe since the 1980s (solicited)
14:30–14:45; EMS2008-A-00486
Western Europe is warming much faster than expected
14:45–15:00; EMS2008-A-00302
Rebetez, M.
Analysis of the shift induced by climate change in the spring frost risk in Switzerland
15:00–15:15; EMS2008-A-00559
Wibig, J.
Warm and cold spells in Poland in the period 1951-2006
Monteiro, A.
Urban impact in a medium size city - an overview of Oporto century climatological data (1900-2006)
15:30–15:45; EMS2008-A-00496
Bachner, S.; Kapala, A.; Simmer, C.
Long-term variability of daily hydrometeorological data
16:00 Coffee Break
Chairperson: HEINO, R.
16:30–17:00; EMS2008-A-00666
Bojariu, R.; Garcia Herrera, R.; Gimeno, L.; Zhang, T.; Frauenfeld, O.
Cryosphere-atmosphere interaction related to NAO variability and change (solicited)
17:00–17:15; EMS2008-A-00735
Global warming hits Greenland
17:15–17:30; EMS2008-A-00138
Pal, I.; Al-Tabbaa, A.
Trends in seasonal precipitation extremes – an indicator of ‘climate change’
17:30–17:45; EMS2008-A-00099
Williams, C.; Kniveton, D.; Layberry, R.
Extreme rainfall events over southern Africa: individual and combined influence of Atlantic SST on rainfall variability
17:45–18:00; EMS2008-A-00699
Aguilar, E.; BRAZAVILLEWORKSHOP
18:00–18:15; EMS2008-A-00463
Hovsepyan, A.
Assessment of historical trends and future climate changes over Armenia
18:15–18:30; EMS2008-A-00320
Baldis, M.; Salinger, J.
Observed trends in New Zealand climate – mean and extremes – over 1951-2007
18:30 END OF ORAL PROGRAMME UC1 (to be continued on Tuesday)

Atmosphere and the Water Cycle

AW3 Formulation, validation and forecasting of Small-scale Processes in Atmospheric Models
- ORAL PROGRAMME

Convener: Holtslag, B.
Co-Conveners: Steeneveld, G., Heus, T.
Lecture Room: M
Chairperson: N.N.
14:00–14:30; EMS2008-A-00227
Couvreux, F.; Guichard, F.; Rio, C.
What can be learned from Large-Eddy Simulations on boundary layers? (solicited)
14:30–14:45; EMS2008-A-00148
van Heerwaarden, C.C.; Vila-Guerau de Arellano, J.; Moene, A.F.
The influence of dry air entrainment on a growing convective boundary layer through land surface feedbacks
14:45–15:00; EMS2008-A-00061
Bott, A.
Theoretical considerations on the mass and energy consistent treatment of precipitation in cloudy atmospheres
15:00–15:15; EMS2008-A-00069
Kuell, V.; Bott, A.
HYMACS: A hybrid mass flux convection scheme for use in non-hydrostatic NWP models
15:15–15:30; EMS2008-A-00158
Pergaud, J.; Masson, V.; Malardel, S.
Parameterization of Dry Thermals and Shallow Cumuli based on the EMDF approach for Mesoscale Numerical Weather Prediction
15:30–15:45; EMS2008-A-00196
Xu, K. M.
Evaluation of Cloud Physical Properties of ECMWF Analysis and Re-Analysis (ERA-40 and ERA Interim) against CERES Tropical Deep Convective Cloud Object Observations
15:45–16:00; EMS2008-A-00019
Webster, S.
Progress towards operational implementation of enhanced vertical resolution in the global forecast version of the Met Office Unified Model
16:00 Coffee Break
Chairperson: N.N.
16:30–17:00; EMS2008-A-00127
Bosveld, F.C.; de Bruijn, E.I.F.; Holtslag, A.A.M.
Intercomparison and Evaluation of Single-Column Models for GABLS3, Preliminary Results (solicited)
AW3 Formulation, validation and forecasting of Small-scale Processes in Atmospheric Models
- POSTER PROGRAMME

Convener: Holtslag, B.
Co-Convener(s): Steeneveld, G., Heus, T.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0059; EMS2008-A-00191
Remy, S.; Bergot, T.; Roquelaure, S.
Cobel-Isba : a site-specific numerical prediction system of fog

P0060; EMS2008-A-00237
Catarino, A.; Cheruy, F.; Hourdin, F.
Large-eddy Simulations for the evaluation of the planetary boundary layer using forcing from a General Circulation Model

P0061; EMS2008-A-00324
Sugimoto, N.; Ishii, K.
Gravity wave radiation from a jet in shallow water system

P0062; EMS2008-A-00570
Ramos, D.; Yagüe, C.; Viana, S.; Maqueda, G.
Study of wave-like structures and background conditions in SABLES2006

P0063; EMS2008-A-00022
Steeneveld, G.J.; Moene, A.F.; Hartogensis, O.K.; Klein Baltink, H.; Holtslag, A.A.M.
Using a Network of Scintillometers and Ceilometers for Validation of the WRF-mesoscale Model

P0064; EMS2008-A-00034
Diurnal and vertical variability of the sensible heat and carbon dioxide budgets in the atmospheric surface layer

P0065; EMS2008-A-00085
Ács, F.; Horváth, A.; Breuer, H.
Sensitivity of storms' precipitation to soil hydraulic characteristics

P0066; EMS2008-A-00331
Sivertsen, T.H.
Discussing certain features of 'physical conservation laws' in dynamical meteorological systems on local scale and meso scale

P0067; EMS2008-A-00459
Masson, V.; Hidalgo, J.; Pigeon, G.; Lemonsu, A.; Acero, J.A.
Methodology to take into account urban climate in city adaptation strategies

P0068; EMS2008-A-00604
Analysis of the downward transport in RICO observations

P0069; EMS2008-A-00607
Fock, B. H.; Kalb-Rottmann, P.; Schlünzen, K. H.
Evaluation of the micro-scale model MITRAS

END OF POSTER PROGRAMME AW3

AW5 Interrelationships between Earth and Space Meteorology
- ORAL PROGRAMME

Convener: Messerotti, M.
Co-Convener(s): Labitzke, K., Lundstedt, H.
Lecture Room: L
Chairperson: N.N.

14:00–14:15; EMS2008-A-00717
Messerotti, M.
Analysis of interrelationships between Earth and Space Meteorology: a roadmap

14:15–14:45; EMS2008-A-00025
Labitzke, K.
Variability in the Stratosphere: The Sun and the QBO (Silver Medal Lecture) (solicited)

14:45–15:00; EMS2008-A-00375
Matthes, K.
Modeling Solar Cycle and QBO Effects in the Atmosphere (solicited)

15:00–15:15; EMS2008-A-00425
Rozanov, E.; Fischer, A.; Brönnimann, S.; Peter, T.; Egorova, T.; Schmutz, W.
Global Climate and Ozone Response to the solar Irradiance Variability during 20th Century (solicited)

15:15–15:30; EMS2008-A-00653
Scherer, K.; Fichtner, F.; Heber, H.
Solar or cosmic ray forcing of the terrestrial climate? (solicited)

15:30–15:45; EMS2008-A-00603
Vanina-Dart, L.B.
Role of influence of Solar Cosmic Rays on the lower ionosphere in regional climate changes.
15:45–16:15; EMS2008-A-00707
Tinsley, B.A.
Global electric circuit affecting clouds and climate (solicited)

16:15 Coffee Break

Chairperson: N.N.

16:30–16:45; EMS2008-A-00695
Unruh, Y.; Solanki, S.; Schuessler, M.; Voegler, A.
Solar irradiance modelling from magneto-convection simulations (solicited)

16:45–17:00; EMS2008-A-00480
Krivova, N.A.
Variations of solar total and spectral irradiance (solicited)

17:00–17:15; EMS2008-A-00701
Wintoft, P.; Wik, M.; Lundstedt, H.
Scale-based wavelet correlation of solar output data

17:15–17:30; EMS2008-A-00113
Benestad, R.E.; Schmidt, G.A.
Solar-activity’s role Climate re-visited: testing recent claims.

17:30–17:45; EMS2008-A-00514
Lundstedt, H.; Wintoft, P.; Wik, M.
Solar magnetic activity: NAO, ENSO and PDO

17:45–18:15; EMS2008-A-00696
Veizer, J.; Ferguson, P.R.
Coupling of terrestrial water and carbon fluxes: implications for the climate system (solicited)

18:15 END OF ORAL PROGRAMME AW5

AW5 Interrelationships between Earth and Space Meteorology
- POSTER PROGRAMME

Convener: Messerotti, M.
Co-Convener(s): Labitzke, K., Lundstedt, H.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0074; EMS2008-A-00348
Dobrica, V.; Demetrescu, C.; Maris, G.; Pirvutoiu, C.
The relationship at decadal and centennial timescales between European temperature data and solar/geomagnetic activity, for the 20th century

P0075; EMS2008-A-00430
Maris, G.; Maris, O.
The rapid solar wind analysis during the Whole Heliospheric Interval (Carrington Rotation # 2086)

P0076; EMS2008-A-00589
Todorovich, N.; Vujovic, D.
New Insights on the Influence of Solar Wind in Driving the Cyclone Circulation

END OF POSTER PROGRAMME AW5

Forecasting the weather at all time scales - THORPEX studies, developments in NWP, applications and societal impact

NWP1.2 Ensemble forecasting - ORAL PROGRAMME
Convener: Barkmeijer, J.
Co-Convener(s): Montani, A.
Lecture Room: N
Chairperson: BARKMEIJER, J.

14:00–14:30; EMS2008-A-00044
Bougeault, P.; Toth, Z.
Status and first assessment of the TIGGE project (solicited)

14:30–14:45; EMS2008-A-00182
Paccagnella, T.
Limited Area EPS and the THORPEX Interactive Grand Global Ensemble

14:45–15:00; EMS2008-A-00101
Montani, A.; Marsigli, C.; Paccagnella, T.
Performance of the COSMO-LEPS system during D-PHASE Operations Period

15:00–15:15; EMS2008-A-00092
Dioniede, T.; Marsigli, C.; Montani, A.; Paccagnella, T.
Streamflow forecasts driven by a limited-area ensemble prediction system

Keller, J.; Kornblueh, L.; Rhodin, A.; Hense, A.
Towards a GME ensemble forecasting system

15:30–15:45; EMS2008-A-00143
Automated public forecast production from the Canadian ensemble prediction system

15:45–16:00; EMS2008-A-00172
Gebhardt, C.; Theis, S.; Paulat, M.; Buchhold, M.
Development of a limited-area ensemble prediction system on the convective scale with COSMO-DE

16:00 Coffee Break

Chairperson: MONTANI, A.

16:30–16:45; EMS2008-A-00125
Magnusson, L.; Nycander, J.; Källén, E.
A new method for ensemble prediction

16:45–17:00; EMS2008-A-00478
Stappers, R.; Barkmeijer, J.
Towards a high impact weather EPS for limited area models

17:00–17:15; EMS2008-A-00621
Broecker, J.
Data Assimilation through Tracking

17:15–17:30; EMS2008-A-00116
de Vries, J.W.; Burgers, G.
Probability forecasts for storm surges at the coast of the Netherlands
17:30–17:45; EMS2008-A-00312
Mesoscale ensemble data assimilation and prediction

17:45–18:00; EMS2008-A-00372
Kilpinen, J.
Calibration of ECMWF EPS temperature forecasts for a hydrological model

18:00–18:15; EMS2008-A-00389
Moritz, K.; Daamen, K.; Ehret, U.; Laurent, S.; Meyer, I.; Vogelbacher, A.
Including hydrometeorological Ensemble Forecasts in the Calculation of Uncertainty of hydrological Forecasts

18:15–18:30; EMS2008-A-00311
von Bremen, L.; Hagedorn, R.; Lange, B.
ECMWF’s ECMWF’s Ensemble Prediction System in probabilistic Wind Power Forecasting

18:30 END OF ORAL PROGRAMME NWP1.2

NWP1.2 Ensemble forecasting - POSTER PROGRAMME

Convener: Barkmeijer, J.
Co-Conveners: Montani, A.
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: BARKMEIJER, J.

P0143; EMS2008-A-00300
Nogaj, M.
Evaluation of wind power ensemble forecasts

P0144; EMS2008-A-00288
van der Veen, S. H.
Short range ensemble forecasting applying singular vectors

P0145; EMS2008-A-00562
Juris, P.; Eben, K.; Resler, J.
Representing the forecast uncertainty by means of fuzzification of the isolines

P0146; EMS2008-A-00564
Ceppi, A.; Ravazzani, G.; Rabuffetti, D.; Mancini, M.
Hydro-meteorological chain for flood forecasting in the Maggiore Lake basin; a reanalysis of November 2002 event

P0147; EMS2008-A-00250
Kalin, L.; Kann, A.
Calibration of Aladin EPS Precipitation Forecasts by Logistic Regression

P0148; EMS2008-A-00483
Langmack, H.; Fraedrich, K.; Sielmann, F.
Analog ensemble forecasts of tropical cyclone tracks in the Australian region

P0149; EMS2008-A-00266
Matjacic, B.; Brankovic, C.; Ivatek-Sahdan, S.; Buizza, R.
Dynamical downscaling of ECMWF EPS forecasts applied to cases of severe weather in Croatia

P0150; EMS2008-A-00386
Kann, A.; Wang, Y.
Improving forecast skill of LAM-EPS by calibration technique

P0151; EMS2008-A-00360
Matsueda, M.
Can we outperform the ECMWF ensemble? -Construction of Multi-Center Grand Ensemble-

END OF POSTER PROGRAMME NWP1.2
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<th>Time</th>
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<td>10:00 – 12:00</td>
<td>UC1</td>
<td>Climate change Assessments: trends and variability – 3</td>
<td>AW10: Air-sea Interactions and Exchange</td>
<td>AW12: Phenology &amp; Agrometeorology – 1</td>
<td>NWPI.3: High Resolution Forecasting Systems</td>
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<td>12:00 – 14:00</td>
<td>UC2</td>
<td>Climate prediction &amp; scenarios: months-decades-century1</td>
<td>AW11.1: Environmental Meteorology &amp; atmospheric Pollution – 1</td>
<td>AW12: Phenology &amp; Agrometeorology – 2</td>
<td>NWPI.4: Observation Targeting &amp; Impact of Observing Systems</td>
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<td>A-00692: Corti, S</td>
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<td>A-00432: Rogel, P</td>
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<td>14:00 – 16:00</td>
<td>UC2</td>
<td>Climate prediction &amp; scenarios: months-decades-century2</td>
<td>AW11.1: Environmental Meteorology &amp; atmospheric Pollution – 2</td>
<td>AW13: Spatial Interpolation &amp; GIS Modelling – 1</td>
<td>NWPI.1: Dynamics &amp; Predictability High Impact Weather – 1</td>
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UC1 Climate change assessments: trends and variability - ORAL PROGRAMME

Convener: Jones, P.
Co-Conveners: Rebetez, M., Heino, R., Klein Tank, A.
Lecture Room: Forum
Chairperson: REBETEZ, M.

8:30–8:45; EMS2008-A-00405
Guijarro, J. A.
Homogenisation of monthly, quarterly and annual precipitation and temperature ECAD series, and impact on their trend estimates

8:45–9:00; EMS2008-A-00422
Zampieri, M.; Lionello, P.
Detection of potential climate change impacts in the biosphere at the global and the regional scales

9:00–9:15; EMS2008-A-00542
Trnka, M.; Olesen, J.; Eitzinger, J.; Stepanek, P.; Brazdil, R.; Dobrovolny, P.; Dubrovsky, M.; Zalud, Z.
Recent Trends in Agroclimatic Characteristics and Consequences for Adaptation Options in Cereal Production – Adaption in Agriculture, but to what?

9:15–9:30; EMS2008-A-00499
Moteva, M.; Georgieva, V.; Kazandjiev, V.
Climatically Assured Water Supply for Agricultural Crops in Bulgaria

9:30–9:45; EMS2008-A-00357
Mavrommatis, T.
Changes in Extreme Hydrological and Atmospheric Drought Event Frequencies in Greece

9:45–10:00; EMS2008-A-00018
Pires, V.; Silva, A.
Analyses of droughts historical evolution in mainland Portugal

10:00–10:15; EMS2008-A-00588
Hänsel, S.; Lupikasza, E.; Matschullat, J.
Changes in Drought Characteristics and Patterns in South-Eastern Germany and Southern Poland for 1951 – 2006

10:15–10:30; EMS2008-A-00130
Mestre, A.
Seasonal Trends of Number of Days with Unusual

10:30 END OF ORAL PROGRAMME UC1 (to be continued on Friday)

UC1 Climate change assessments: trends and variability - POSTER PROGRAMME

Convener: Jones, P.
Co-Conveners: Rebetez, M., Heino, R., Klein Tank, A.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0001; EMS2008-A-00011
Haque, M.
Global Warming and Climate Change: Challenges for Bangladesh

P0002; EMS2008-A-00017
Fatima, H.; Upadhyaya, H. C.; Sharma, O. P.
Study of monsoon with the impact of aerosols in Imd general circulation model

P0003; EMS2008-A-00021
Davitashvili, T.
Research of conditions of the climate change in Georgia in view of regional and anthropogenic factors

P0004; EMS2008-A-00054
Potop, V.; Koznarova, V.
Drought as natural hazard in the Czech Republic

P0005; EMS2008-A-00056
Spatio-temporal evolution of upwelling along the Atlantic Ocean Eastern Boundary Upwelling System (20N to 44N) from 1985 to 2006

P0006; EMS2008-A-00097
Braverman, A.; Fetzer, E.; Kahn, B.; Teixeira, J.
Assessing Interannual Variability with the AIRS L3Q Data Set

P0007; EMS2008-A-00111
Pourasghar, F.; Jahanbakhsh, S.
Impact of climate change on the trends of temperature and precipitation of the Urmia and water balance of the Urmia Lake for the period 1967-2007

P0008; EMS2008-A-00120
Siedlecki, M.
Changes of the instability conditions in a Climate Change

P0009; EMS2008-A-00128
Djordjevic, S.Dj.
Analysis of the extreme temperature and precipitation indices for Serbia from 1961 to 2006

P0010; EMS2008-A-00130
Groppelli, B.; Bocchiola, D.; Rosso, R.
Downscaling of GCM precipitation for a mesoscale Alpine basin of northern Italian Alps

P0011; EMS2008-A-00142
Cao, Z.
A regional scale summer severe wind frequency trend in the warming climate

P0012; EMS2008-A-00169
Mestre, A.
Trend analysis of long series of agroclimatic parameters in Spain

P0013; EMS2008-A-00175
Melkonyan, H. A.
The results of climate change investigations in Armenia

P0014; EMS2008-A-00221
Anagnostopoulou, Chr.; Tolika, K.; Kostopoulou, E.; Karipidou, S.; Maheras, P.
Assessment of extreme rainfall conditions over Europe: an application of the GEV method to long-time series

P0015; EMS2008-A-00232
Mileta, M.
Seasonal Trends of Number of Days with Unusual

P0016; EMS2008-A-00235
Degirmendzic, J.
Long-term changes in the frequency and intensity of upper-tropospheric jet streaks over Europe
P0017; EMS2008-A-00247
Onuchin, A.A.; Musokhranova, A.V.; Burenina, T.A.; Korets, M.A.
Assessment of climatic trends in Northern Asia and their geographical variability

P0018; EMS2008-A-00260
Nastos, P.T.
Effects of clouds on air temperature in Athens, Greece. Trends and variability

P0019; EMS2008-A-00262
Nastos, P.T.; Sarantopoulos, A.
Heat waves in Greece during the summer 2007. Extreme or normal future events?

P0020; EMS2008-A-00272
Renaud, V.; Rebetez, M.
Comparison between open-site and below-canopy climatic conditions in Switzerland from 1998 to 2007

P0021; EMS2008-A-00275
Yuchechen, A.; Canziani, P.; Bischoff, S.

P0022; EMS2008-A-00284
Jamsnid, A.; Bagheri, Y.; Alaghmand, S.
Reduction of climate change effects in the Carpathian Basin

P0023; EMS2008-A-00290
Traeger-Chatterjee, C.; Mueller, R. W.; Hollmann, R.
Investigation of solar surface radiation anomalies using satellite data

P0024; EMS2008-A-00298
Toreti, A.; Desiato, F.; Fioravanti, G.; Perconti, W.
Seasonal temperature and precipitation over Italy from 1961 to 2006

P0025; EMS2008-A-00299
Radics, K.; Bartholy, J.; Peline, Cs.N.; Hajdu, M.
Regional tendencies of mean and extreme wind characteristics in the Carpathian Basin

P0026; EMS2008-A-00304
Voloshchuk, V.; Boychenko, S.; Serdjuchenko, N.
Features of reaction of regional climatic conditions of Ukraine on modern global warming

P0027; EMS2008-A-00305
Boychenko, S.; Voloshchuk, V.; Serdjuchenko, N.
Parametrization of displacement of a subtropical minimum of an atmospheric precipitation in Northern hemisphere at global warming

P0028; EMS2008-A-00322
Baldi, M.; Coccimiglio, P.
Climate trends in a Mediterranean Ecosystem: the Presidential Estate of Castelporziano

P0029; EMS2008-A-00335
Szwed, M.
The extreme temperatures in Poland versus the North Atlantic Oscillation

P0030; EMS2008-A-00345
Starke, E.; Jacob, D.
Future drought events in Europe as projected by regional climate scenarios

P0031; EMS2008-A-00352
Ferrez, J.; Davison, A. C.; Rebetez, M.
Extreme temperature analysis under forest cover compared to an open field

P0032; EMS2008-A-00355
Graczyk, D.; Szwed, M.
Temporal and spatial changes of the thermal characteristics in Poland

P0033; EMS2008-A-00361
Trachte, K.; Bendix, A.; Bendix, J.; Palacios, E.; Rollenbeck, R.; Nauß, T.
El Nino beats La Nina? A rapid warming of the ocean cold pool in the Nino 1-2 region and torrential rainfall anomalies in Ecuador

P0034; EMS2008-A-00364
Adnan, N.A.; Atkinson, P.M.
Hydrometeorological Trend Analysis in a Monsoon Catchment

P0035; EMS2008-A-00427
Takac, J.; Lapin, M.; Siska, B.; Sobocka, J.; Caboun, V.; Spanik, F.; Valskova, M.
Possible climate change impacts on land use sectors in Slovakia

P0036; EMS2008-A-00436
Galati, M.B.; Lionello, P.; Cosimo, C.
Trends of ocean wave height along the coast of Italy during the second half of the 20th century

P0037; EMS2008-A-00455
Moseley, Ch.; Pfeifer, S.; Kotova, L.; Jacob, D.
High resolution climate change simulations for Central and Eastern Europe

P0038; EMS2008-A-00460
Cattiaux, J.; Vautard, R.; Yiou, P.
Recent warm extremes in Europe: a taste of future climate?

P0039; EMS2008-A-00475
Ivancheva, J; Radeva, S; Koleva, E.K.
Variability and Trend in Sunshine Duration over South Bulgaria

P0040; EMS2008-A-00489
Grassi, G.; Redaelli, R.; Visconti, V.
Correlative analysis of tropical SST and SH polar dynamics

P0041; EMS2008-A-00504
Vujovic, D.; Todorovich, N.
The Changes in Air Temperatures during the period 1887-2007 at Belgrade, Serbia

P0042; EMS2008-A-00508
Sepp, M.
Changes in Arctic cyclone activity and tracks in the period of 1948-2004

P0043; EMS2008-A-00526
Melo, M.; Lapin, M.
Climatic Trends in Slovak Part of Danubian Lowland

P0044; EMS2008-A-00561
Wibig, J.
Variability of precipitation extremes in Poland in the period 1951-2006

P0045; EMS2008-A-00565
Seiler, R.; Vinocur, M.
Climate variability and climate change: regional study of the variability of frosts in the Province of Córdoba-Argentina

P0046; EMS2008-A-00574
Bartolini, E.; Claps, P.; D’Odorico, P.
On the variability of winter Alpine precipitation

P0047; EMS2008-A-00592
Hänsel, S.; Matschullat, J.
Spatiotemporal Trend Characteristics of monthly Heavy Precipitation Indices in Central Eastern Germany

P0048; EMS2008-A-00593
Pongracz, R.; Bartholy, J.; Szabó, P.; Gelybő, GY.
How the climate is expected to change in the Carpathian basin by the end of the 21st century?

Climate variability and changes in the climate extremes of Mexico as detected from the global to the local scale

Climate Change Impacts and Potential of Adaptation Options in Iran

Variation of Sand Storm Phenomena in Southeastern of Iran for 1951-2005

Analysis of climate change impacts on water resources in the South Eastern Bulgaria

Some evidences of climatic changes in Portugal

Quasi – bidecadal variations of the North Subtropical Atlantic gyre: role of PDO forcing, gyre adjustment and meso-scale eddies

Circulation-related and nephological conditioning of contemporary air temperature increase in Poland

Observed changes in winter temperature indices in the Netherlands

The problems of global climate’s warming and its consequences

END OF POSTER PROGRAMME UC1

UC2/NWP4 Climate prediction and scenarios from months to decades to century - ORAL PROGRAMME

Convener: Appenzeller, C.
Co-Convener(s): Goodess, C., Troccoli, A., van der Linden, P.
Lecture Room: Forum
Chairperson: APPENZELLER, C.

11:00–11:15; EMS2008-A-00692
Corti, S.; Straus, D. M.; Molteni, F.
Large-Scale Circulation Regimes in seasonal forecasts

11:15–11:30; EMS2008-A-00231
Chabot, E.; Cassou, C.; Céron, J.P.; Dubuisson, B.
Predictability of Weather Regimes at seasonal scale

11:30–11:45; EMS2008-A-00136
Arribas, A.; Cusack, S.; Peterson, A.; Gordon, M.; Glover, M.; Scaife, A.
Adapting to climate change: The new Met Office seasonal forecasting system

11:45–12:00; EMS2008-A-00057
Caminade, C.; Morse, A.; Jones, A.
Validation of ENSEMBLES/DEMETER seasonal forecasts over the Sahel

12:00–12:15; EMS2008-A-00258
Kar, S.; Bohra, A.
Internal variability in seasonal simulations of the Indian monsoon using a global atmospheric model

12:15–12:30; EMS2008-A-00186
Peterson, K.A.; Arribas, A.; Anderson, D.; Cusack, S.; Glover, M.; Gordon, M.
Ocean Initialization in the next UKMO seasonal forecast model: GloSea4

12:30–12:45; EMS2008-A-00432
Rogel, P.; Doblas-Reyes, F.-J.
The seasonal to decadal ENSEMBLES partners
The ENSEMBLES ocean reanalysis and forecast database for seasonal to decadal climate variability and predictability studies

12:45–13:00; EMS2008-A-00181
Senan, R.; Benestad, R.E.; Balmaseda, M.; Ferranti, L.; Orsolini, Y.
Sea-ice and climate sensitivity on monthly scales

Lunch Break

Chairperson: TROCOLLI, A.

14:00–14:15; EMS2008-A-00174
Weigel, A. P.; Liniger, M. A.; Appenzeller, C.
Probabilistic ensemble forecasts: are recalibrated single models as good as multi-models?

14:15–14:30; EMS2008-A-00479
Casanova, S.; Ahrens, B.
Seasonal forecasts using weighted combinations within the multi-model ensemble system DEMETER

14:30–14:45; EMS2008-A-00264
Dubus, L.; Nogaj, M.; Qu, Z.
Can downscaling approaches improve local seasonal forecasts ? Some examples over France with DEMETER and ENSEMBLES Stream1 hindcasts

14:45–15:00; EMS2008-A-00027
Weisheimer, A.; Doblas-Reyes, F.; Palmer, T.N
Seasonal prediction of extreme European climate: Case studies of the summer 2003 and the winter 2005/06

15:00–15:15; EMS2008-A-00099
Lorenzo, M.N.; Iglesias, I.; Taboada, J.J.; Gómez-Gesteira, M.
Monthly rainfall forecast in NW Iberian Peninsula by means of sea surface temperature anomalies in north Atlantic

Weigel, A. P.; Baggenstos, D.; Liniger, M. A.; Appenzeller, C.
Probabilistic verification of monthly temperature forecasts

15:30–15:45; EMS2008-A-00503
van Oldenborgh, G.J.; Coelho, C.; Doblas-Reyes, F.
Exploratory analysis and verification of seasonal forecasts with the KNMI Climate Explorer

15:45–16:00; EMS2008-A-00623
San-Martín, D.; Coñino, A.; Gutiérrez, J.M.
The Statistical Downscaling Web Portal: An End-to-End Tool for Regional Projection

Coffee Break

16:00
Chairperson: WEIGEL, A.  
16:30–16:45; EMS2008-A-00119  
Jones, A.; Clarke, L.; Morse, A.; Smith, L.  
Construction of forecast probabilities for impact modelling: a performance assessment of ensemble interpretation techniques for seasonal malaria prediction  
16:45–17:00; EMS2008-A-00165  
Renggli, D.; Leckebusch, G.C.; Ulbrich, U.  
Wind storm events in the DEMETER hindcast data  
17:00–17:15; EMS2008-A-00171  
Ionita, M.; Lohmann, G.; Rimbu, N.  
Prediction of spring Elbe discharge based on stable teleconnections with winter global temperature and precipitation  
17:15–17:30; EMS2008-A-00249  
Tanguy, G.; Céron, J.P.; Franchistéguy, L.; Martin, E.  
Seasonal forecasting of hydrological parameters in France: feasibility and potentialities  
17:30–17:45; EMS2008-A-00384  
Kurnik, B.; Niemeyer, S.  
Drought Forecasting in Europe with Standardized Precipitation Index using ECMWF monthly forecasts  
17:45–18:00; EMS2008-A-00028  
Weisheimer, A.; Doblas-Reyes, F.J.; Palmer, T.N.  
Decadal hindcasts with an initialised coupled atmosphere-ocean model: First results from the ECMWF ENSEMBLES contribution  
18:00–18:15; EMS2008-A-00544  
Smedman, A.-S.  
Air-sea exchange – a crucial link in the climate system (solicited)  
08:30–9:00; EMS2008-A-00544  
Smedman, A.-S.  
Air-sea exchange – a crucial link in the climate system (solicited)  
09:00–9:30; EMS2008-A-00547  
Liss, P.S.  
Air-sea exchange of trace gases (solicited)  
09:30–9:45; EMS2008-A-00026  
Kudryavtsev, V.N.; Makin, V.K.  
Effect of sea spray on the surface drag and the atmospheric boundary layer  
09:45–10:00; EMS2008-A-00037  
Andreas, E.L.; Persson, P.O.G.; Hare, J.E.  
A bulk turbulent air-sea flux algorithm for high-wind, spray conditions  
10:00–10:15; EMS2008-A-00031  
Dominant characteristics of primary and secondary organic components in marine aerosol  
10:15–10:30; EMS2008-A-00558  
DeMott, C.; Randall, D.  
Impacted ocean heat transports in the standard and "superparameterized" CAM3.0  
10:30 END OF ORAL PROGRAMME UC2/NWP4  
(to be continued on Thursday)
P0087; EMS2008-A-00243
Mannozzi, M.; Arduini, J.; Sarni, A.; Giordano, P.; Di Mento, R.; Romanelli, G.; Ciccioli, P.; Maione, M.
Comparative eddy covariance CO2 flux measurements using open- and closed-path gas analyzers over the equatorial Pacific Ocean

P0089; EMS2008-A-00207
Sempreviva, A.M.; ModObs TEAM
ModObs: “Atmospheric modelling for wind energy, climate and environment applications: exploring added value from new observation technique” – Work in progress within a FP6 Marie Curie Research Training Network

P0090; EMS2008-A-00702
Sempreviva, A. M.; Schiano, M.E.; Soerensen, L.L.; Bozzano, R.; Pensieri, S.; Borghini, M.; Grasso, F.; Semedo, A.
Development of the vertical structure of the marine boundary layer and surface fluxes during the LASIE experiment in the Ligurian sea.

END OF POSTER PROGRAMME AW10

AW11.1 Environmental Meteorology (from local to global): Meteorology and Atmospheric Pollution: from the urban to meso/regional scale
- ORAL PROGRAMME

Convener: Joffre, S.
Co-Convener(s): Baklanov, A., Piringer, M.
Lecture Room: L
Chairperson: JOFFRE, S.

11:00–11:15; EMS2008-A-00481
Trini Castelli, S.; Reisin, T. G.; Tinarelli, G.
From the mesoscale to the urban scale: testing the microscale version of RMS modelling system for high resolution simulations in presence of obstacles

11:15–11:30; EMS2008-A-00500
Baklanov, A. A.; Neterman, R. B.
Multi-scale atmospheric environment modelling for urban areas

11:30–11:45; EMS2008-A-00423
Piringer, M.; Baumann-Stanzer, K.; Polreich, E.; Hirtl, M.; Rau, G.
Selected results of two model validation exercises

11:45–12:00; EMS2008-A-00370
Van de Vel, K.; De Ridder, K.; Lefebre, F.; Maes, J.; Mensink, C.; Vliegen, J.
Urban air quality assessment modelling with AURORA

12:00–12:15; EMS2008-A-00398
Korschholm, U.; Gross, A.; Mahura, A.; Baklanov, A.
On the importance of urban-aerosol-meteorology feedbacks in transformations of pollutants

12:15–12:30; EMS2008-A-00550
Szintai, B.; Kaufmann, P.; Rotach, M. W.
Deriving turbulence characteristics from the COSMO numerical weather prediction model for dispersion applications

12:30–12:45; EMS2008-A-00609
Dispersion in Cloudy Boundary Layers

END OF ORAL PROGRAMME AW11.1

AW11.1 Environmental Meteorology (from local to global): Meteorology and Atmospheric Pollution: from the urban to meso/regional scale
- POSTER PROGRAMME

Convener: Joffre, S.
Co-Convener(s): Baklanov, A., Piringer, M.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: BAKLANOV, A.

P0091; EMS2008-A-00310
Mortarini, L.; Ferrero, E.; Richiardone, R.; Falabino, S.; Anfossi, D.; Trini Castelli, S.; Carretto, E.
Analysis of wind data gathered by three sonic anemometers on a mast in urban area

13:00 Lunch Break
Mon

P0092; EMS2008-A-00367
Santos, C.; Silva, C.; Azevedo, H.; Monteiro, A.
CO2 emissions in a urban way of life - a case study at Porto

P0093; EMS2008-A-00189
Quante, M.; Matthias, V.; Aulinger, A.
Evaluation of the spectral behaviour of model wind data as used for chemistry transport modelling

P0094; EMS2008-A-00246
Nidzgorska - Lenciewicz, J.
Meteorological elements determining the concentration of ozone in Szczecin

P0095; EMS2008-A-00261
Baranka, G.
Modelling of air pollutants released from highway traffic in Hungary

P0096; EMS2008-A-00390
Mahura, A.; Korsholm, U.; Baklanov, A.; Rasmussen, A.
Short-Term Birch Pollen Forecasting using Diurnal Cycle Parameterization

P0097; EMS2008-A-00548
Kerschbaumer, A.; Reimer, E.; Banzhaf, S.; Langer, I.; Buitjers, P.
Wet deposition simulations based on meteorological objective analysis

P0098; EMS2008-A-00635
Kumar, R.; Srivastava, S.S.; Kumsari, K.M.
Parameterization of dry deposition of S and N compounds on natural surfaces

P0099; EMS2008-A-00554
Uncertainties of input parameters of an ozone deposition model

P0100; EMS2008-A-00578
Czender, Cs.; Komjáthy, E.; Mészáros, R.; Lagzi, I.
Spatial and temporal variability of ozone deposition

P0101; EMS2008-A-00411
Kreienkamp, F.; Enke, W.; Spekat, A.
Assessing the local portion and the longe range transport of NO2 using a concentration-based statistical method

P0102; EMS2008-A-00453
Pereira, S. N.; Wagner, F.; Silva, A. M.
Long term measurements of near surface aerosols in the western Mediterranean (Portugal) region

P0103; EMS2008-A-00467
Stefan, S.; Necula, C.
Estimation of the PM10 direct radiative effect in different meteorological conditions

P0104; EMS2008-A-00556
Lagzi, I.; Mészáros, R.; Molnár, F.; Szakály, T.; Szűcs, M.; Kovács, T.; Nénymey, Á.
Parallelization and application of an Eulerian and Lagrangian models at the Paks Nuclear Power Plant

P0105; EMS2008-A-00750
Huseynov, N.Sh.; Malikov, B.M.
The isolation of greenhouse gases in an atmosphere from combustion of jet engine fuel in the territory of Azerbaijan Republic

P0106; EMS2008-A-00698
Validation of High Resolution Model for the Assessment of Climate Change Impact on Atmospheric Chemistry in Troposphere

END OF POSTER PROGRAMME AW11.1

AW11.2 Environmental Meteorology (from local to global): Global Environmental Monitoring and Forecasting (including GMES related issues) - ORAL PROGRAMME
Convener: Joffre, S.
Co-Convener(s): Builtjes, P., Sokhi, R.
Lecture Room: L
Chairperson: BUILTJES, P.

16:30–17:00; EMS2008-A-00719
Simmons, A.; Eskes, H.
Monitoring and forecasting atmospheric constituents: European initiatives for the provision of climate and air-quality information services (solicited)

17:00–17:15; EMS2008-A-00495
Sokhi, R.; Chemel, C.; Hu, R.; Yu, Y.; Fisher, B.E.A
Influence of Meteorology on Particulate Matter Episodes for 2003 over European Regions – Integrated Analysis with Ground-based Measurements, Satellite Data and Model Simulations

17:15–17:30; EMS2008-A-00679
San Jose, R.; Perez, J.L.; Morant, J.L.; Gonzalez-Barras, R.M.
Simulations of elevated PM10 values over Germany during the 2003 Winter by using MM5-CMAQ and WRF/Chem mesoscale air quality models

17:30–17:45; EMS2008-A-00587
Chepemisin, A.; Marichev, V.; Nikolashkin, S.; Bychkov, V.; Shevtsoff, B.; Kruchenitsky, G.
Meteorological aspects of aerosol observation by Siberian – Far-Eastern lidar stratospheric stations network

17:45–18:00; EMS2008-A-00185
Zoran, M.
Urban land surface parameters and their climatic effects derived from remote sensing satellite data

18:00–18:30; EMS2008-A-00713
Data-model integration pilot studies in GEOMON for the interpretation of atmospheric gas and particle levels (solicited)

18:30 END OF ORAL PROGRAMME AW11.2
AW11.2 Environmental Meteorology (from local to global): Global Environmental Monitoring and Forecasting (including GMES related issues) 
- POSTER PROGRAMME

Convener: Joffre, S.
Co-Convener(s): Builtjes, P., Sokhi, R.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: SOKHI, R.

P0107; EMS2008-A-00429
Jaczewski, A.
Validation of water vapour data from the A-TRAIN with the radiosoundings

P0108; EMS2008-A-00506
Fokeeva, E.V.; Rakitin, V.S.; Kuznetsov, R.D.
Total column of the carbon monoxide and boundary layer parameters in the center of Moscow

P0109; EMS2008-A-00566
Meteorology-Chemistry links in present and future regional climate - air quality long-term simulations

END OF POSTER PROGRAMME AW11.2

AW12 Phenology and Agrometeorology
- ORAL PROGRAMME

Convener: Koch, E.
Co-Convener(s): Eitzinger, J., Lalic, B.
Lecture Room: M
Chairperson: N.N.
8:30–9:00; EMS2008-A-00066
Eitzinger, J.; The ADAGIO team
Adaptation of vulnerable regional agricultural systems in Europe to climate change & #8211; results from the ADAGIO project (solicited)

9:00–9:15; EMS2008-A-00251
Attaher, S. M.; Medany, M. A.; Abou-Hadid, A. F.
Possible adaptation measures of agriculture sector in the Nile Delta region

9:15–9:30; EMS2008-A-00071
Uset, A.; del Rio, B.
Evaluating the capability of a current irrigation design to cope with the estimated climate change conditions for northern Spain

9:30–9:45; EMS2008-A-00001
Shahabfar, A.; Eitzinger, J.
Spatial and temporal analysis of drought in Iran by using drought indices

9:45–10:00; EMS2008-A-00145
Virag, V.; Mozny, M.; Stalmacher, S.; Nekovar, N.; Trnka, T.; Zalud, Z.
Changes in Czech pan evaporation from 1970 to 2007

10:00–10:15; EMS2008-A-00539
Trnka, M.; Stepanek, P.; Skalak, P.; Hlavinka, P.; Farda, A.; Balek, J.; Semeradova, D.; Eitzinger, J.

10:15–10:30; EMS2008-A-00684
Lyons, T.J.; Nair, U.S.; Foster, I.J.
Clearing enhances dust devil formation

10:30 Coffee Break

Chairperson: N.N.
11:00–11:15; EMS2008-A-00515
O’Rourke, E.F.; Fealy, R.; Sweeney, J.; Fealy, R.M.
Modelling the Effect of Climate on the Incidence of Pests and Diseases: a Spatial Analysis of the Potential Impacts on Irish Agricultural Productivity

11:15–11:30; EMS2008-A-00468
Lalic, B.; Mihailovic, D.T.; Jevtic, R.; Jasnic, S.
Assessment of climate change impact on plant disease and pest occurrence in Vojvodina region

11:30–12:00; EMS2008-A-00685
Koch, E.; Hammerl, C.; Maurer, C.
BACCHUS KlosterneuBurg wine And Climate Change in (Lower) AUSTria (solicited)

12:00–12:15; EMS2008-A-00354
Nejedlik, P.; Tekusova, M.
Phenological response to the climate in the extreme years in North Carpathian

12:15–12:30; EMS2008-A-00330
Hajkova, L.; Kazmarova, H.; Nekovar, J.; Novak, M.
Relations between allergology important phenophases entrance and course of elementary meteorological characteristics (Prague agglomeration)

12:30–12:45; EMS2008-A-00180
Zoran, M.
Significance for anthropogenic and climate impact studies of satellite remotely-sensed biophysical parameters extraction of forest vegetation

12:45–13:00; EMS2008-A-00617
Nertan, A.; Stancalie, Gh.; Flueraru, C.; Irimescu, A.
Quality assessment of global MODIS LAI product over croplands in southern Romania

13:00 END OF ORAL PROGRAMME AW12

AW12 Phenology and Agrometeorology
- POSTER PROGRAMME

Convener: Koch, E.
Co-Convener(s): Eitzinger, J., Lalic, B.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0110; EMS2008-A-00212
Jatczak, K.; Walawender, J.
Average rate of phenological changes in Poland according to climatic changes – evaluation and mapping

P0111; EMS2008-A-00497
Žust, A.; Sušnik, A.
Determining past phenological development in Slovenia

P0112; EMS2008-A-00537
Bartošová, L.; Trnka, M.; Bauer, Z.; Mozny, M.; Stepanek, P.; Balek, J.

P0110; EMS2008-A-00212
Jatczak, K.; Walawender, J.
Average rate of phenological changes in Poland according to climatic changes – evaluation and mapping

P0111; EMS2008-A-00497
Žust, A.; Sušnik, A.
Determining past phenological development in Slovenia

P0112; EMS2008-A-00537
Bartošová, L.; Trnka, M.; Bauer, Z.; Mozny, M.; Stepanek, P.; Balek, J.
Observed Trends in Phenology of the Native Plant and Animal Species in Flood-Plain Forests of Central Europe during 1961 - 2008
AW13 Spatial interpolation and GIS modelling in earth system science (co-listed in UC) - ORAL PROGRAMME

Convenor: Dolinar, M.
Co-Conveners: Tveito, O.
Lecture Room: M
Chairperson: TVEITO, O.
14:00–14:15; EMS2008-A-00043
Frei, C.; Germann, U.; Füköme, S.; Liniger, M.
Uncertainty in precipitation mapping – a case study of the August 2005 flood in Switzerland (solicited)
14:15–14:30; EMS2008-A-00269
Shkaruba, A.; Kireyeu, V.
Classification of geophysical environments for stratified random sampling designs (solicited)
14:30–14:45; EMS2008-A-00491
Dorninger, M.; Schneider, S.; Steinacker, R.; Chimani, B.; Sperka, S.
On the Interpolation of Precipitation Data over Complex Terrain (solicited)
14:45–15:00; EMS2008-A-00156
Schiemann, R.; Frei, C.
Mapping daily precipitation from sparse station networks: A reduced-space optimal interpolation approach for the Alpine region
15:00–15:15; EMS2008-A-00294
Silva, A.; Cunha, S.; Nunes, L.
Lussana, C.; Salvati, M. R.; Uboldi, F.
Efficient high-resolution 3-D interpolation of meteorological variables for operational use
15:30–15:45; EMS2008-A-00353
Engen-Skaugen, T.; Homleid, M.; Midtbø, K.H.; Tveito, O.E.
Corrections of temperature forecast in Norway
15:45–16:00; EMS2008-A-00490
Dumitrescu, A.; Cheval, S.
Temperature vertical gradient in the Romanian Carpathians derived from MODIS images
16:00 Coffee Break

Chairperson: TVEITO, O.
16:30–16:45; EMS2008-A-00271
Sluiter, R.; Sluijter, R.
Automatic Mapping of Climate Variables Supplemented by Ancillary Data using GIS and Web Services
16:45–17:00; EMS2008-A-00226
Brunetti, M.; Lentini, G.; Maugeri, M.; Nanni, T.; Spinoni, J.
Spatial interpolation of air pollution measurement data and its application in policy support
17:00–17:15; EMS2008-A-00597
Janssen, S.; Dumont, G.; Fiorens, F.; Mensink, C.
Spatial interpolation of Italian secular Temperature records
17:15–17:30; EMS2008-A-00318
Belda, F.; Poquet, D.; Garcia-Haro, F.J.
Topoclimatology of drought in Spain
AW13 Spatial interpolation and GIS modelling in earth system science (co-listed in UC)
- POSTER PROGRAMME
Convener: Dolinar, M.
Co-Conveners: Tveito, O.
Display Time: Monday, 08:00–Tuesday, 20:00

Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: DOLINAR, M.

P0126; EMS2008-A-00014
Jurikovska, L.
Comparison of different methods for estimating precipitation based on radar and rain gauge measurements

P0127; EMS2008-A-00218
Brunetti, M.; Lentini, G.; Maugeri, M.; Nanni, T.; Spinoni, J.
High resolution spatial interpolation of Italian secular precipitation records

P0128; EMS2008-A-00265
Dolinar, M.
Convective precipitation mapping: case study of August 2005 flood event in Slovenia

P0129; EMS2008-A-00366
Krinis, P.; Voudouris, K.; MAVROMMATIS, T.
Developing a Rainfall-Discharge Model for Crete and Assessing its Sensitivity in Future Climate Conditions

P0130; EMS2008-A-00642
Lizama Rivas, B.; Koleva, I.
Application of GIS for runoff simulation in the north eastern bulgaria

P0131; EMS2008-A-00319
Garcia-Haro, F.J.; Belda, F.; Poquet, D.
Estimation of climatological variables in Spain during the 1950-2008 period using geostatistical techniques

P0132; EMS2008-A-00283
Alaghmand, S.; Bagheri, Y.; Jamshidi, A.
Assessment the efficiency of different interpolation

P0133; EMS2008-A-00505
Percece Tadic, M.; Auer, I.; Bohm, R.; Hiebl, J.; Schoner, W.; Bihari, Z.; Bissolli, P.; Brunetti, M.; Dolinar, M.; Spinoni, J.
High resolution digital climatological maps for Croatia with comparison to the selected European and global climatological data sets

END OF POSTER PROGRAMME AW13

Forecasting the weather at all time scales - THORPEX studies, developments in NWP, applications and societal impact

NWP1.1 The dynamics and predictability of high impact weather
- ORAL PROGRAMME
Convener: Parsons, D.
Lecture Room: N
Chairperson: PARSONS, D.

14:00–14:15; EMS2008-A-00736
Burridge, D.; Davies, H.; Wernli, H.; Sznuyogh, I.
Challenges in Predictability and Dynamical Processes for Global Prediction – Lessons learned from THORPEX (solicited)

14:15–14:30; EMS2008-A-00770
Craig, G.; Jones, S.; Wernli, H.
The PANDOWAE Project (Predictability and Dynamics of Weather Systems in the Atlantic-European Sector) (solicited)

14:30–14:45; EMS2008-A-00161
Campa, J.; Wernli, H.
Rapidly deepening cyclones in the North Atlantic and North Pacific - an analysis of the ECMWF forecast performance

14:45–15:00; EMS2008-A-00222
Boettcher, M.; Wernli, H.
A case study of an explosively deepening, diabatic Rossby-wave induced cyclone: aspects of its dynamics and predictability

15:00–15:15; EMS2008-A-00396
Fink, A. H.; Brücher, T.; Ermert, V.; Krüger, A.; Pinto, J. G.
The Dynamics of the European Winter Storm Kyrill in January 2007

15:15–15:30; EMS2008-A-00502
Twitchett, A.; Schwierz, C.
The role of dynamical precursor features in UK heavy precipitation events

15:30–15:45; EMS2008-A-00005
Pokrovsky, O.; Matyugin, V.
Determination of the adaptive observations in the Northern Asia responded to the most efficient representation of the ensemble prediction systems
The Assessment of Sensitivity of a Long-Range NWP Model on Small Changes in Initial Conditions and Model Parameters

Chairperson: BURRIDGE, D.

Challenges in Predictability and Dynamical Processes on Local and Regional Scales – Lessons Learned from the Priorities of the WWRP

Improving the numerical prediction of a cyclone in the Mediterranean by local potential vorticity modifications

Impact of lateral boundary conditions on predictability of Mediterranean Heavy Precipitation Events

A verification framework for communicating forecast quality to the general public

A Nowcasting Challenge: Icy Runway Conditions Associated with a Strong Cold Front

NWP1.3 High Resolution Forecasting Systems - ORAL PROGRAMME
Convener: BROZKOVÁ, R.
Lecture Room: N
Chairperson: BROZKOVÁ, R.

Multiscale data assimilation for high resolution nested models

Case studies of high resolution SST and surface wind assimilation using the WRF model over the eastern Mediterranean

Development of a quality indicator for meso-scale weather forecasts

Investigation of the quality of precipitation forecasts by different regional NWP models

Validation of WRF weather forecasts of Tuscany Region (Italy) severe events

NWP1.1 The dynamics and predictability of high impact weather - POSTER PROGRAMME
Convener: Parsons, D.
Display Time: Monday, 08:00–Tuesday, 20:00

Cycles in the annual course of the planetary wave dynamics

Valuing information from mesoscale forecasts

Validation of mesoscale numerical weather forecasts for designing predictive control of indoor building climates

The performance examination of the dual-frequency ground-based microwave radiometer during the precipitation events

Characteristics of the Changma rainfall from the KEOP-2007 intensive observations conducted over Korea
High Resolution Forecasts for the 2007 America’s Cup and Evaluation with Buoy Measurements

NWP1.3 High Resolution Forecasting Systems
- POSTER PROGRAMME
Convener: BROZKOVA, R.
Display Time: Monday, 08:00–Tuesday, 20:00
Authors in Attendance: Tuesday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0152; EMS2008-A-00456
Mahura, A.; Petersen, C.; Sass, B.
Road Weather Model Verification: Revised Approach

P0153; EMS2008-A-00466
Lazic, L.; Pejanovic, G.; Zivkovic, M.
Verification of the Eta Model forecasts for wind power generation

P0154; EMS2008-A-00715
Synoptical and mesoscale information for forecast purposes

END OF POSTER PROGRAMME NWP1.3

NWP1.4 Observation Targeting & The Impact of Various Observing Systems on Numerical Weather Prediction
- ORAL PROGRAMME
Convener: Pailleux, J.
Co-Convener(s): Dibbern, J., Craig, G., Truscott, B.
Lecture Room: N
Chairperson: PAILLEUX, J.; DIBBERN, J.

Observation Impact
11:00–11:15; EMS2008-A-00752
Pailleux, J.
A synthetic view of the impact of observing systems on NWP models
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| 8:30 – 10:30 | UC3: Climate monitoring, mapping & data management | Lecture Room L | A-00532: Bissolli, P
A-00341: Klein, T
A-00095: Brunet, M
A-00677: Lukasczyk, Ch
A-00650: Mächel, H
A-00087: Christiansky, A
A-00421: van Ulden, AP |
| 10:30 – 11:00 |           | Lecture Room M | A-00755: Morin, R
Silver Medal Lecture
A-00434: Benestad, RE
A-00438: Agersten, S
A-00482: Maciejirnha, R
A-00561: Giannopoulos, P |
| 11:00 – 13:00 | UC3: Climate monitoring, mapping & data management | Lecture Room N | A-00031: Fukutome, S
A-00624: Dotzek, N
A-00523: Bissolli, P
A-00510: Hollis, D
A-00151: Groen, G
Poster Presentations |
| 11:00 – 13:00 |           |                | Poster Presentations
Award Presentations and Recommendations |
| 11:00 – 13:00 | Communication on Climate Change: Strategic Lectures | UC4: Climate reconstructions and historical climatology | Chair: P. van der Geer
To be announced
A. Felt
M. Visbeck
R. van Dorland
C. van Woerkom
Poster Presentations |
| 13:00 – 14:00 |           |                | Lunch Break 15:45 – 16:15 |
| 14:00 – 16:00 | Communication on Climate Change: Panel discussion | UC4: Climate reconstructions and historical climatology | Facilitator: P. van der Geer
To be announced
R. Black
I. Meinke
F. Raes
J. van den Berg
M. Helmer
Session ends 17:30 |
| 16:30 – 18:30 |           |                | Poster Presentations |
| 16:30 – 18:30 |           |                | Poster Presentations |
| 16:30 – 18:30 |           |                | Poster Presentations |
| 16:30 – 18:30 |           |                | Poster Presentations |
European Conference on Applied Climatology

UC3 Climate monitoring, mapping and data management

- ORAL PROGRAMME

Convener: Forland, E.
Co-Conveners(s): Della-Marta, P., Prior, J., Szalai, S., Brunet, M.
Lecture Room: Forum
Chairperson: FORLAND, E.

8:30–8:45; EMS2008-A-00532
Bissolli, P.
ECMS – European Climate System Monitoring. A simplified Web Platform for Dissemination of Climate Monitoring Products (solicited)

8:45–9:00; EMS2008-A-00341
Klein, T.; Persson, C.
Showcase EUROGRID – Towards a European resource for gridded climate data, products and services

9:00–9:15; EMS2008-A-00095
Brunet, M.; Badlouar, O.; THE MEDARE Community
A WMO project for enhancing climate data availability over the Greater Mediterranean Region: The MEDARE Initiative

9:15–9:30; EMS2008-A-00677
Luksaczyk, Ch.; Felix, V.; van Geijtenbeek, D.; Hieberli, C.
IDAWEB – An interactive data access for R&D purposes

9:30–9:45; EMS2008-A-00650
Mächel, H.; Kapala, A.; Behrendt, J.
KLIDADIGI, a project to digitize historical climate data in Germany

9:45–10:00; EMS2008-A-00723
Hansen, L.
The new database systems on DMI

10:00–10:15; EMS2008-A-00087
Christiansky, A.; Weissh; Günther, H.; Callies, U.; von Storch, H.; Feser, F.; Woth, K.; Grabemann, I.; Plüß, A.
A consistent meteo-marine data set for coastal and offshore applications

10:15–10:30; EMS2008-A-00421
van Ulden, A. P.
The Construction of a Central Netherlands Temperature

10:30 Coffee Break

Chairpersons: PRIOR, J.; BRUNET INDIA, M.

11:00–11:15; EMS2008-A-00131
Fukutome, S.; Liniger, M.; Frei, C.
Extreme Value Analysis in Switzerland (solicited)

11:15–11:30; EMS2008-A-00342
Nejedlik, P.; Pecho, J.; Faško, P.; Gaál, L.; Koštállová, J.; Kajaba, P.
Short-term rainfall intensity maxima and maximal 1-day and k-days precipitation totals in Slovakia

11:30–11:45; EMS2008-A-00624
Groenemeijer, P.; Dobetz, N.; Liang, Z.; Khühne, T.
Enhanced capabilities of the European Severe Weather Database ESWD to monitor extreme weather events

11:45–12:00; EMS2008-A-00523
Maier, U.; Bissolli, P.
Snow Maps for European Climate Monitoring

12:00–12:15; EMS2008-A-00510
Hollis, D.; Clark, P.
Estimating the small-scale wind energy resource for the UK

12:15–12:30; EMS2008-A-00015
Groen, G.
Potential wind, theory and practical use

12:30–12:31; EMS2008-A-00187
Boi, P.
Monitoring snow cover over Italy by MSG data

Dementeva, A.L.; Zhamzueva, G.S.; Zayakhanov, A.S.; Tsydynpov, V.V.
Research of turbulent condition in atmosphere Mongolia of arid and semi arid territory (cancelled)

Pecho, J.; Faško, P.; Mikulová, K.; Sadovský, Z.; Bocniček, O.; Kajaba, P.
Snow water equivalent regime and processing of its maximum values in Slovakia as basic data source for snow load standard assessment

12:33–12:34; EMS2008-A-00382
López, J. A.; Luna, M. Y.; Chazara, A.
Preliminary results of daily temperature data homogenisation in spain: the future creation of a gridded dataset

12:34–12:35; EMS2008-A-00383
Manea, A.; Radita, I.; Boromeant, C.; Toma, E.
Present weather sensor – preliminary results of the comparison

12:35–12:36; EMS2008-A-00394
Kaspar, F.; Träger-Chatterjee, C.; Schulz, J.; Fuchs, P.; Hollmann, R.; Jonas, M.; Lockhoff, M.; Müllner, R.; Schröder, M.
Operational climate monitoring from space: the EUMET-SAT Satellite Application Facility on Climate Monitoring (CM-SAF)

12:36–12:37; EMS2008-A-00402
Tammets, T.; Paljak, T.
Statistical and synoptical overview and analysis of extreme hot and cold periods in Estonia since 1961

Molinos, F.; Martinez, D.; Cuxart, J.
Climatology of the stably stratified nights in the Ebro Valley

Ronchi, C.; De Luigi, C.; Ciccarelli, N.; Loglisci, N.
Development of a daily gridded climatological air temperature dataset based on a optimal interpolation of ERA-40 reanalysis downscaling and a local high resolution thermometers network

Breza, T.; Baciu, M.; Cheval, S.; Dumitrescu, A.
Classification of the extreme rainfall events in Romania based on Intensity-Duration-Frequency criteria

12:40–12:41; EMS2008-A-00518
Begert, M.
The Swiss National Basic Climatological Network: Representation study using cluster analysis

Oancea, S.; Alecu, C.
Gap analysis of the land surface temperature estimated from Meteosat-9 satellite data over Romania

Stepanek, P.; Zahradnicek, P.; Skalak, P.
Extreme values analysis in daily air temperature and precipitation series in the area of the Czech Republic since 1961

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<table>
<thead>
<tr>
<th>Time</th>
<th>Reference</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:43-12:44</td>
<td>EMS2008-A-00536</td>
<td>Observing temperature vertical profiles using the LEO satellites, case study: Iran</td>
</tr>
<tr>
<td>12:45-12:46</td>
<td>EMS2008-A-00725</td>
<td>On the Danish rain-intensity rain-gauge data and network</td>
</tr>
</tbody>
</table>

**UC3 Climate monitoring, mapping and data management - POSTER PROGRAMME**

Convenor: Forland, E.  
Co-Conveners(s): Della-Mart, P., Prior, J., Szalai, S., Brunet India, M.  
Display Time: Wednesday, 08:00–Friday, 13:00  
Authors in Attendance: Thursday, 18:30–20:00  
Poster Area: Forum Lounge (Ground Floor)  
Chairperson: BRUNET INDIA, M.

**P0032; EMS2008-A-00187**  
Boi, P.  
Monitoring snow cover over Italy by MSG data

**P0033; EMS2008-A-00327**  
Dementeva, A.L.; Zhamsueva, G.S.; Zayakhanov, A.S.; Tsypdyov, V.V.  
Research of turbulent condition in atmosphere Mongolia of arid and semi arid territory (cancelled)

**P0034; EMS2008-A-00346**  
Pecho, J.; Faško, P.; Mikulová, K.; Sadovský, Z.; Bochníček, O.; Kajaba, P.  
Snow water equivalent regime and processing of its maximum values in Slovakia as basic data source for snow load standard assessment

**P0035; EMS2008-A-00382**  
López, J. A.; Luna, M. Y.; Chazarra, A.  
Preliminary results of daily temperature data homogeneisation in Spain: the future creation of a gridded dataset

**P0036; EMS2008-A-00383**  
Manea, A.; Ralita, I.; Boroneant, C.; Toma, E.  
Present weather sensor – preliminary results of the comparison

**P0037; EMS2008-A-00394**  
Kaspar, F.; Träger-Chatterjee, C.; Schulz, J.; Fuchs, P.; Hollmann, R.; Jonas, M.; Lockhoff, M.; Müller, R.; Schröder, M.  
Operational climate monitoring from space: the EUMETSAT Satellite Application Facility on Climate Monitoring (CM-SAF)

**P0038; EMS2008-A-00402**  
Tammets, T.; Paljak, T.  
Statistical and synoptical overview and analysis of extreme hot and cold periods in Estonia since 1961

**P0039; EMS2008-A-00415**  
Molinos, E.; Martínez, D.; Cuxart, J.  
Climatological of the stably stratified nights in the Ebro Valley

**P0040; EMS2008-A-00492**  
Ronchi, C.; De Luigi, C.; Ciccarelli, N.; Loglisci, N.  
Development of a daily gridded climatological air temperature dataset based on an optimal interpolation of ERA-40 reanalysis downsampling and a local high resolution thermometers network

**P0041; EMS2008-A-00494**  
Breza, T.; Baciu, M.; Cheval, S.; Dumitrescu, A.  
Classification of the extreme rainfall events in Romania based on intensity-duration-frequency criteria

**P0042; EMS2008-A-00518**  
Begert, M.  
The Swiss National Basic Climatological Network: Representativeness study using cluster analysis

**P0043; EMS2008-A-00536**  
Mirboroon, S.; Shariﬁ, M.A.; Mashhadi-hossainali, M.  
Observing temperature vertical proﬁles using the LEO satellites, case study: Iran

**P0044; EMS2008-A-00586**  
Oancea, S.; Alecu, C.  
Gap analysis of the land surface temperature estimated from Meteosat-9 satellite data over Romania

**P0045; EMS2008-A-00618**  
Stepanek, P.; Zahradnicek, P.; Skalak, P.  
Extreme values analysis in daily air temperature and precipitation series in the area of the Czech Republic since 1961

**P0046; EMS2008-A-00724**  
Kern-Hansen, C.  
On the future observation strategy of DMI

**P0047; EMS2008-A-00725**  
Thomsen, R.S.  
On the Danish rain-intensity rain-gauge data and network

**P0048; EMS2008-A-00726**  
Laursen, E. V.  
More Greenland real-time meteorological data

**UC4 Climate reconstructions and historical climatology - ORAL PROGRAMME**

Convenor: García-Herrera, R.  
Co-Conveners(s): Wheeler, D., Luterbacher, J., Bronnimann, S., Brázdil, R.  
Lecture Room: L  
Chairperson: BRÖNIMANN, S.

**14:00–14:15; EMS2008-A-00714**  
Pfister, C.  
Seasonal climate variability in Medieval Europe (1000 to 1499)

**14:15–14:30; EMS2008-A-00446**  
Garcia de Cortazar-Atauri, I.; Parker, A.; Van Leeuwen, C.; Tardaguila, J.; Boursiquot, J.M.; Demarée, G.; The OPHELIE Team  
Climate reconstruction of Europe during the last millennium

**14:30–14:45; EMS2008-A-00200**  
Lundstad, E.; Nordli, O.; Mathisen, T.I.  
Historical documentary records to reconstruct climate in Norway

**14:45–15:00; EMS2008-A-00147**  
Dobrovolny, P.; Moberg, A.; Brazdil, R.; Wilson, R.; Pfister, C.; Glaser, R.  
Temperature series of Central Europe from AD 1501: synthesis of documentary evidence and instrumental data
UC4 Climate reconstructions and historical climatology - POSTER PROGRAMME

Convener: García-Herrera, R.
Co-Convener(s): Wheeler, D., Luterbacher, J., Bronnimann, S., Frázdil, R.
Display Time: Wednesday, 08:00–Friday, 13:00
Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: WHEELER, D.

P0049; EMS2008-A-00378
Polanco, J.; Sáenz, J.; Robles, S.; Rosales, I.
Long-period orbital cycles of Early Jurassic detected δ18O trends of belemnites from the Basque-Cantabrian basin, northern Spain

P0050; EMS2008-A-00543
Servonnat, S.; Khodri, K.; Yiou, Y.; Denvil, D.
Intra-annual climate variability in the North Atlantic during the last millennium: influence of the solar forcing in the IPSLCM4v2 climate model

P0051; EMS2008-A-00307
Boychenko, S.
About the quasi-periodic fluctuations of ground temperature of Northern hemisphere in the last millennium

P0052; EMS2008-A-00464
Filipiak, J.
The variability of air pressure in Gdañsk in the 18th century

P0053; EMS2008-A-00122
Medical topographical studies: a new source of climatic data in the Iberian Peninsula (18th-19th centuries)

P0054; EMS2008-A-00193
Atmospheric imprints of the snow occurrence in the Central Argentinean Andes: assessing a documentary reconstruction

P0054a; EMS2008-A-00073
Allan, R.
The Atmospheric Circulation Reconstructions over the Earth (ACRE) initiative

END OF POSTER PROGRAMME UC4

Atmosphere and the Water Cycle

AW1 Dynamical Meteorology - ORAL PROGRAMME

Convener: Frisius, T.
Co-Convener(s): Ruti, P., Lunkeit, F.
Lecture Room: M
Chairperson: N.N.

11:00–11:15; EMS2008-A-00531
A massive parallel Finite Element approach to the solution of non-hydrostatic compressible atmospheric flows

11:15–11:30; EMS2008-A-00192
Caballero, R.
Extratropical control of Hadley cell strength in observations and global climate models
11:30–11:45; EMS2008-A-00050
Wang, W.
An Extratropical Air-Sea Interaction over the North Pacific in Association with a Preceding El Niño Episode in Early Summer

11:45–12:00; EMS2008-A-00140
Cao, Z.
The sting jet features in a typical extratropical cyclone

12:00–12:15; EMS2008-A-00173
Ayarzagüena, B.; Serrano, E.
Relationship between the timing of northern Stratospheric Final Warmings and changes in the wave activity

12:15–12:30; EMS2008-A-00686
van Delden, A.; Hinssen, Y.
How is the potential vorticity distribution in the stratosphere established?

12:30–12:45; EMS2008-A-00606
Vanina-Dart, L.B.
Relation between the ionosphere F2 region and stratosphere in different weather conditions

12:45 END OF ORAL PROGRAMME AW1

AW6 Instruments and new challenges in observation strategies: Surface energy fluxes and atmospheric turbulence - ORAL PROGRAMME

Convener: de Bruin, H.
Co-Convener(s): Beyrich, F., Bosveld, F.
Lecture Room: N
Chairperson: BEYRICH, F.

14:00–14:30; EMS2008-A-00308
Moene, A.F.; Gioli, B.
Spatial variability of structure parameters and surface fluxes obtained from airborne turbulence measurements around the Cabauw tower (solicited)

14:30–14:45; EMS2008-A-00211
de Bruin, H.; Watts, C. J.; Garatuzza-Payan, J.; Rodriguez, J. C.; Hartogensis, O. K.
MOST relationships for the structure parameter of temperature under very unstable conditions

14:45–15:00; EMS2008-A-00333
Braam, M.; Bosveld, E. C.; Moene, A. F.
Determination of the surface sensible heat flux from the structure parameter of temperature at 60 m height

15:00–15:15; EMS2008-A-00094
Kleissl, J.; Gomez, J.D.; Hendrickx, J.M.H.; Hartogensis, O.K.; de Bruin, H.A.R.
The Sevilleta Scintillometer Saturation Field Experiment

15:15–15:30; EMS2008-A-00004
Odhiambo, G. O.; Savage, M. J.
Influence of wind direction and a slanting beam angle on surface layer scintillometer estimates of sensible heat flux

15:30–15:45; EMS2008-A-00652
Evans, J. G.; deBruin, H.A.R.
Effective height of a dual-wavelength scintillometer system over complex terrain

15:45–16:00; EMS2008-A-00084
Gryning, S.-E.; Soegaard, H.; Batchvarova, E.
Aggregation of CO2 fluxes

16:00 Coffee Break

Chairperson: BOSVELD, F.

16:30–16:45; EMS2008-A-00276
Savage, M.J.
Estimation of evaporation for a mixed-community grassland site using a dual-beam surface layer scintillometer and component energy balance measurements

16:45–17:00; EMS2008-A-00006
Ferket, B.; Samain, B.; De Bruin, H.; Pauwels, V.
The relative importance of accurate catchment-averaged evapotranspiration inputs versus automatic calibration procedures for operational flood forecasting

17:00–17:15; EMS2008-A-00667
Jarmain, C.; Everson, C.S.; Savage, M.J.; Mengistu, M.G.
Suitability and accuracy of techniques to estimate evaporation from different surfaces: case studies from south africa

17:15–17:30; EMS2008-A-00680
Everson, C.S.; Chulow, A.; Mengitsu, M.G.
The use of scintillometry to measure evaporation from riparian zones in ephemeral river sytems in the semi-arid karroo of South Africa

17:30–17:45; EMS2008-A-00082
Hartogensis, O.K.; Van Kesteren, B.; Evans, J.; Bradford, J.; Moene, A.F.; Holtslag, A.A.M.
Sensible and Latent Heat Fluxes with an Optical and Millimeter wave Scintillometer system at the Chilbolton test range

17:45–18:00; EMS2008-A-00063
Beyrich, F.
Operational Aspects of Scintillometry: Achievements and Limitations

18:00–18:15; EMS2008-A-00256
Xu, Z.; Liu, S.; Huang, B.
The Large Aperture Scintillometer measurements over different surfaces in China

Hartogensis, O.K.; De Bruin, H.A.R.
The Hill Bump and Laser Scintillometry

Krupski, M.; Peters, G.
An improved tilt correction method for eddy covariance measurements

18:17–18:18; EMS2008-A-00060
Collet, M.; Besnard, T.; Berger, L.
Improvement of cloud cover monitoring by use of motor aspirated pyrometers
Baseline climate network in Hungary and application for air quality dispersion models

18:19–18:20; EMS2008-A-00674
Anagnostou, M.; Nystuen, J.; Anagnostou, E.; Chronis, T.; Nikolopoulos, E.; Amitai, E.; Papadopoulos, A.
A first comparison between underwater acoustic estimates and dual Polarization measurements over the Aegean Sea

Lu, L.; Liu, S.; Bai, J.
Results from short and long ‘C term measurements of Large Aperture Scintillometer over different surfaces

Gouvea, M.L.; Grimmond, C.S.B.
Turbulent sensible heat fluxes in central London: preliminary results

Rodriguez, J.; Watts, C.; Garatuza, J.; Chehbouni, A.; Ezzahar, J.; Debruin, H.
Comparison of area averaged sensible heat flux derived from GOES surface temperature with LAS (Large Aperture Scintillometer) measurements over a patchwork of irrigated crops in NW Mexico

P0117; EMS2008-A-00041
Gouvea, M.L.; Grimmond, C.S.B.
Turbulent sensible heat fluxes in central London: preliminary results

P0118; EMS2008-A-00336
Rodriguez, J.; Watts, C.; Garatuza, J.; Chehbouni, A.; Ezzahar, J.; Debruin, H.
Comparison of area averaged sensible heat flux derived from GOES surface temperature with LAS (Large Aperture Scintillometer) measurements over a patchwork of irrigated crops in NW Mexico

END OF POSTER PROGRAMME AW6

AW6 Instruments and new challenges in observation strategies: Surface energy fluxes and atmospheric turbulence - POSTER PROGRAMME

Convener: de Bruin, H.
Co-Convener(s): Beyrich, F., Bosveld, F.
Display Time: Wednesday, 08:00–Friday, 13:00

Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0111; EMS2008-A-00083
Hartogensis, O.K.; De Bruin, H.A.R
The Hill Bump and Laser Scintillometry

P0112; EMS2008-A-00216
Krupski, M.; Peters, G.
An improved tilt correction method for eddy covariance measurements

P0113; EMS2008-A-00060
Collet, M.; Besnard, T.; Berger, L.
Improvement of cloud cover monitoring by use of motor aspirated pyrometers

P0114; EMS2008-A-00391
Baseline climate network in Hungary and application for air quality dispersion models

P0115; EMS2008-A-00674
Anagnostou, M.; Nystuen, J.; Anagnostou, E.; Chronis, T.; Nikolopoulos, E.; Amitai, E.; Papadopoulos, A.
A first comparison between underwater acoustic estimates and dual Polarization measurements over the Aegean Sea

P0116; EMS2008-A-00236
Lu, L.; Liu, S.; Bai, J.
Results from short and long ‘C term measurements of Large Aperture Scintillometer over different surfaces

P0117; EMS2008-A-00041
Gouvea, M.L.; Grimmond, C.S.B.
Turbulent sensible heat fluxes in central London: preliminary results

P0118; EMS2008-A-00336
Rodriguez, J.; Watts, C.; Garatuza, J.; Chehbouni, A.; Ezzahar, J.; Debruin, H.
Comparison of area averaged sensible heat flux derived from GOES surface temperature with LAS (Large Aperture Scintillometer) measurements over a patchwork of irrigated crops in NW Mexico

END OF POSTER PROGRAMME AW6

AW8 Boundary-layer physics and parameterizations in weather and climate forecast - ORAL PROGRAMME

Convener: Zilitinkevich, S.
Co-Convener(s): Petrosyan, A.
Lecture Room: N
Chairperson: PETROSYAN, A.
8:30–9:00; EMS2008-A-00049
Mahrt, L.
Interaction between turbulence and submeso motions in stratified boundary layers (solicited)

9:00–9:15; EMS2008-A-00321
Galperin, B.; Sukoriansky, S.; Atlaskin, E.
QNSE-based surface layer parameterization in simulations of stably stratified atmospheric boundary layers

9:15–9:30; EMS2008-A-00694
Drobinski, P.; Dubos, T.
From large-scale land/sea-breezes to mesoscale inland breezes: a linear approach

09:30–10:00; EMS2008-A-00198
Xu, K. M.; Cheng, A.
A Subgrid-scale Microphysics Parameterization for Simulation of Drizzling Boundary-layer Clouds (solicited)

10:00–10:30; EMS2008-A-00710
Esau, I.; Zilitinkevich, S.
Atmospheric planetary boundary layer feedback in climate system and triggering of climate change at high latitudes (solicited)

10:30 Coffee Break

Chairperson: ZILITINKEVICH, S.

11:00–11:15; EMS2008-A-00693
Catalano, F.; Cenedese, A.
Anabatic and katabatic winds in a valley

11:15–11:30; EMS2008-A-00734
Karelsky, K.; Petrosyan, A.; Slavin, A.
Advanced numerical analysis of rotating shallow water equations on complex boundary

11:30–11:45; EMS2008-A-00528
Schröter, J.; Moene, A. F.; Holtslag, A.A.M.
Exploring the potential of mass flux concepts for momentum transport in the dry convective boundary layer

11:45–12:00; EMS2008-A-00274
Antonelli, M.; Lanotte, A.S.; Mazzino, A.
Anisotropies and universality of buoyancy-dominated turbulent boundary layers
**Meteorology and Society**

**MS1 Media and Communication**

**- ORAL PROGRAMME**

Convener: Cegnar, T.
Co-Convener(s): Fleming, G.
Lecture Room: L
Chairperson: CEGNAR, T.

8:30–9:00; EMS2008-A-00755
Morin, R.
Social, economical and political impact of meteorology (Silver Medal Lecture) (solicited)

9:00–9:30; EMS2008-A-00114
Benestad, R.E.; Nordli, Ø.; Hanssen-Bauer, I.
Communication climate science: Lessons learned (solicited)

9:30–9:45; EMS2008-A-00163
Agersten, S.; Hygen, H. O.
Efficient use of two multilingual web portals to accommodate different user groups

9:45–10:00; EMS2008-A-00704
Cordoneanu, E.; Danila, I.
Weekly weather – a broadcast on weather, climate and related phenomena

10:00–10:15; EMS2008-A-00268
Macieirinha, R.; Monteiro, A.
The extreme episodes of rainfall in the press - a reflexion of the 11 rainiest years in the period 1900-2006

10:15–10:30; EMS2008-A-00447
Giannopoulos, P.; Emmanouil, G.
Stamps “talking” about climate change

10:30 Coffee Break

Chairperson: FLEMING, G.

11:00–11:15; EMS2008-A-00374
Najman, M.
System of warnings fails to deliver and doesn’t use modern technologies

11:15–11:30; EMS2008-A-00766
Trobec, J.
Broadcast coverage of severe weather in tornado alley

11:30–11:45; EMS2008-A-00728
Kootval, H.
The role of communication in capacity building projects of WMO Public Weather Services Programme

11:45–12:00; EMS2008-A-00729
Martin, C.
IABM for better weather information

12:00–12:15 Networking, CBN-E

12:15–12:30 Videoclips

12:30–13:00 Award Presentations and Recommendations (by T. Cegnar)

13:00 END OF ORAL PROGRAMME MS1

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**AW8 Boundary-layer physics and parameterizations in weather and climate forecast**

- POSTER PROGRAMME

Convener: Zilitinkevich, S.
Co-Convener(s): Petrosyan, A.
Display Time: Wednesday, 08:00–Friday, 13:00

**Authors in Attendance: Thursday, 18:30–20:00**

**Poster Area: Forum Lounge (Ground Floor)**

**Chairperson: N.N.**

**P0140; EMS2008-A-00016**

Martano, P.
Study of a surface evaporation scheme for statistical downscaling of climate variables

**P0141; EMS2008-A-00303**

Matejka, F.; Hurtalova, T.; Fleischer, P.
Parameterization of atmospheric surface layer over wind disaster area

**P0142; EMS2008-A-00472**

Khalil, M.
Large-Eddy Simulation of Neutrally-Stratified Atmospheric Boundary Layer over Wavy Surfaces

**P0143; EMS2008-A-00708**

Fung, W.; Lam, K.
Impact of urbanization on temperature trend

END OF POSTER PROGRAMME AW8
MS1 Media and Communication
- POSTER PROGRAMME

Convener: Cegnar, T.
Co-Conveners(s): Fleming, G.
Display Time: Wednesday, 08:00–Friday, 13:00
Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: CEGNAR, T.

P0144: EMS2008-A-00722
Basque Meteorology Agency annual meteorological bulletins

P0145: EMS2008-A-00731
Grdadolnik, V.; Cegnar, T.
Media relations and organizing of press centre for Bridging the gap conference

P0146: EMS2008-A-00730
Cegnar, T.
Bringing the conference closer to general public and stakeholders

END OF POSTER PROGRAMME MS1

MS2 Climatological and meteorological information in the context of decision making
- ORAL PROGRAMME

Convener: Meinke, I.
Co-Conveners(s): Spekat, A.
Lecture Room: M
Chairpersons: MEINKE, I.; SPEKAT, A.

8:30–8:45; EMS2008-A-00711
Spekat, A.; Meinke, I.
No pedestrians beyond this point? The interface of climate modelling and decision making

8:45–9:00; EMS2008-A-00659
Klein Tank, A.
Is the risk of changing climate extremes part of decision making frameworks?

9:00–9:15; EMS2008-A-00238
Meinke, I.; von Storch, H.
Regional climate offices as link between climate research and decision makers

9:15–9:30; EMS2008-A-00234
Robrecht, H.R.; van Staden, M.V.S.; Klas, C.K.
Developing a cyclical management approach to climate change adaptation and community resilience for Local governments

9:30–9:45; EMS2008-A-00059
Wind climate and wind farm portfolio calculations

9:45–10:00; EMS2008-A-00630
Ravenel, H.; Baracer, F.; Torrente, A.
Climatological and meteorological expertise to help decision making for beach management in the context of the new bathing waters directive

10:00–10:15; EMS2008-A-00519
Baldi, M.; Esposito, S.; Di Giuseppe, E.; Pasqui, M.; Maracchi, G.; Vento, D.
Seasonal forecasting climatic anomalies for agriculture in Italy: the TEMPIO Project

Treffeisen, R.; Lemke, P.; Dethloff, K.
The new regional climate office for polar regions and sea level rise

Agersten, S.; Hygen, H.O.
Increased availability of Norwegian climate data for decision makers by use of Web Service

10:25–10:30; EMS2008-A-00373
Madureira, H.; Santos, C.; Monteiro, A.
The Porto CO2 sink capacity during the last century - a comparative analysis of green areas in 1900 and 2000

10:35 END OF ORAL PROGRAMME MS2

MS2 Climatological and meteorological information in the context of decision making
- POSTER PROGRAMME

Convener: Meinke, I.
Co-Conveners(s): Spekat, A.
Display Time: Wednesday, 08:00–Friday, 13:00
Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: SPEKAT, A.; MEINKE, I.

P0147; EMS2008-A-00168
Treffeisen, R.; Lemke, P.; Dethloff, K.
The new regional climate office for polar regions and sea level rise

P0148; EMS2008-A-00132
Agersten, S.; Hygen, H.O.
Increased availability of Norwegian climate data for decision makers by use of Web Service

P0150; EMS2008-A-00373
Madureira, H.; Santos, C.; Monteiro, A.
The Porto CO2 sink capacity during the last century - a comparative analysis of green areas in 1900 and 2000

END OF POSTER PROGRAMME MS2
## SESSION PROGRAMME

### THURSDAY

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<td>Keynote: Climatic Change and Society</td>
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<td>Keynote: Climate Prediction &amp; Risk Management</td>
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<td>Panel Discussion: Climate Prediction &amp; Risk Management</td>
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<td>Keynote: Gender Equality in Climate Change</td>
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**Programme:**
- Session 1: Climate Prediction & Risk Management
- Session 2: Environment
- Session 3: Gender Equality
- Session 4: Environment
- Session 5: Poster Presentations
European Conference on Applied Climatology

UC2/NWP4 Climate prediction and scenarios from months to decades to century
- ORAL PROGRAMME

Convener: Appenzeller, C.
Co-Conveners: Goodess, C., Troccoli, A., van der Linden, P.
Lecture Room: L
Chairperson: APPENZELLER, C

16:30–16:45; EMS2008-A-00133
Jacob, D.; Lorenz, P.; Podzun, R.
How much climate change is unavoidable in Europe?

16:45–17:00; EMS2008-A-00137
Royer, J.F.; Huebener, H.; van Vuuren, D.; Stehfest, E.; Boucher, O.; de Noblet-Ducoudré, N.; Rognerud, B.
Experimental design of the new scenarios for “Stream 2” multidecadal simulations in the ENSEMBLES project

17:00–17:15; EMS2008-A-00525
Salas-Melia, D.; Voldoire, A.; Royer, J.-F.; Tyteca, S.
FP6-ENSEMBLES Stream 2 simulations by CNRM-CM3.3 AOGCM

17:15–17:30; EMS2008-A-00417
Rowlands, D.J.; Meinshausen, N.; Allen, M.R.; Aina, T.
Random forests predictions trained on a large ensemble of HADSM3 predictions

17:30–17:45; EMS2008-A-00285
Donat, M.; Leckebusch, G. C.; Pinto, J. G.; Ulbrich, U.
Analysis of extra-tropical cyclones and wind storms in multi-model simulations with global and regional climate models

17:45–18:00; EMS2008-A-00328
Matsueda, M.; Mizuta, R.; Kusunoki, S.
Future change in atmospheric blocking simulated by 20-km mesh atmospheric global circulation model

18:00–18:01; EMS2008-A-00091
Dubrovsky, M.
WG-friendly climate change scenarios based on IPCC-AR4 set of GCM simulations

18:01–18:02; EMS2008-A-00093
Dubrovsky, M.; Svoboda, M.D.; Trnka, M.; Metelka, L.
Performance of interpolated weather generator in terms of extreme temperature and precipitation characteristics (Nebraska vs. Czechia)

18:02–18:03; EMS2008-A-00560
Mares, I.; Mares, C.; Stanciu, A.
Simulation of discharges in the Danube lower basin in the 21-the century using a nonhomogeneous hidden Markov model

18:03–18:04; EMS2008-A-00571
Gera, M.; Bastak, I.; Gerova, E.; Kremler, M.; Szemesova, J.
Climatologic Data Downscaling with Dynamical Adaptation for Purpose of Pollutant Spreading Analysis

18:04–18:05; EMS2008-A-00047
Wang, Y.; Yan, X.
The effects of the land-sea geometry on climate change

18:06–18:07; EMS2008-A-00470
Busuioă, A.; Boroneană, C.; Baciu, M.
Changes in seasonal precipitation indices in Romania using statistical downscaling models applied to climate change scenarios derived from the ENSEMBLES GCM simulations

18:07–18:08; EMS2008-A-00326
Sugimoto, N.; Tachibana, K.; Shiogama, H.; Nozawa, T.
Climate variability visualized by high speed spherical self-organizing map

18:08–18:09; EMS2008-A-00403
Spekat, A.; Kreienkamp, F.; Enke, W.
A hybrid statistical-dynamical method for regional climate scenarios – sensitivity to the employment of different large-scale models

18:09–18:10; EMS2008-A-00219
Regional climate change projections for eastern mediterranean and the middle east

Kitaev, L.
Climate and snow accumulation over Northern Europe – modern and future changes

18:11–18:12; EMS2008-A-00067
Vicente-Serrano, S.M.; López-Moreno, J.I.
Differences in the nonstationary influence of the NAO on European precipitation under different climate change scenarios

18:12–18:13; EMS2008-A-00079
Cane, D.; Milelli, M.; Pelosini, R.; Ronchi, C.; De Luigi, C.; Loglisci, N.
Multimodel SuperEnsemble downscaling of regional climatic model scenarios in the alpine area

Martinez, A.
Regional Model climatic simulation of Western Europe and the Iberian Peninsula for the Ensembles Project emissions scenario

Beranova, R.; Kysely, J.; Picek, J.
Scenarios of Changes in Extreme Daily Temperatures and Heavy Precipitation over Europe: Application of Extreme Value Models with Time-dependent Parameters in GCM Outputs

Miksovsky, J.; Halenka, T.; Belda, M.; Farda, A.; Skalak, P.
Dynamical versus statistical downscaling in the region of Central Europe

Vertical structures in two AO-GCMs including high resolved stratosphere

18:17–18:18; EMS2008-A-00438
Flocas, H.A.; Hatzaki, M.; Anagnostopoulou, C.; Tolika, K.; Tegoulias, J.; Maheras, P.
Relationship of large scale circulation with climatic extremes over Greece: intercomparison of three regional models
18:18–18:19; EMS2008-A-00449
Kalvova, J.; Mikovsky, J.; Raidl, A.; Motl, M.; Farda, A.
ALADIN 25 and PRUDENCE RCMs: A comparison for the Czech Republic

Liszewska, M.; Jacezewski, A.
Climate simulations for Poland with RegCM

Holtanova, E.; Kalvova, J.
Uncertainties in future temperature and precipitation changes over the Czech Republic

Baciu, M.; Cheval, S.; Breza, T.; Dumitrescu, A.
Drought trends in Romania under the climate change projections of the 21st century

Bartholy, J.; Pongrácz, R.; Pieczka, I.; Hunyady, A.
Analysis of expected regional climate change for the Carpathian basin using A2 and B2 scenario runs of model PRECIS

Hadjinicolaou, P.; Giannakopoulos, C.; Zerefos, C.; Lelieveld, J.
Temperature and precipitation extremes from regional climate model scenarios over Cyprus

Stepanek, P.; Skalak, P.; Farda, A.
RCM ALADIN-Climate/CZ simulation of 2020-2050 climate over the Central Europe region

Validation of different regional climate models over the Carpathian Basin

Fallah-Ghalhary, Gh.-A.; Mousavi-Baygi, M.; Habibi Nokhandan, M.
Soft computing models for Annual rainfall prediction

Orsolini, Y.; Kvamstø, I.; Sorteberg, A.
Impact of snow cover on inter-annual variability of the NH winter circulation in an ensemble GCM simulation forced by satellite observations

Cazaciu, L.
Verification of the performance of global circulation models in monthly temperature and precipitation simulation

18:29–18:30; EMS2008-A-00273
Nogaj, M.; Dubus, L.
Impact of the calibration of downscaled ensemble DEMETER temperature data over France

18:30–18:31; EMS2008-A-00458
Konca-Kedzierska, K.; Pianko-Kluczynska, K.
Application of Fuzzy Logic to Monthly Temperature and Precipitation Forecasts

UC2/NWP4 Climate prediction and scenarios from months to decades to century
- POSTER PROGRAMME
Convener: Appenzeller, C.
Co-Convener(s): Goodess, C., Troccoli, A., van der Linden, P.
Principal Organizer: ANTONIO MONACO, C.
Display Time: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: Appenzeller, C.

P0001; EMS2008-A-00091
Dubrovsky, M.
WG-friendly climate change scenarios based on IPCC-AR4 set of GCM simulations

P0002; EMS2008-A-00093
Dubrovsky, M.; Svoboda, M.D.; Trnka, M.; Metelka, L.
Performance of interpolated weather generator in terms of extreme temperature and precipitation characteristics (Nebraska vs. Czechia)

P0003; EMS2008-A-00560
Mares, I.; Mares, C.; Stanciu, A.
Simulation of discharges in the Danube lower basin in the 21-the century using a nonhomogeneous hidden Markov model

P0004; EMS2008-A-00571
Gera, M.; Bastak, I.; Gerova, E.; Kremler, M.; Szemesova, J.
Climatologic Data Downscaling with Dynamical Adaptation for Purpose of Pollutant Spreading Analysis

P0005; EMS2008-A-00047
Wang, Y.; Yan, X.
The effects of the land-sea geometry on climate change

P0007; EMS2008-A-00470
Busuioa, A.; Boroneant, C.; Baciu, M.
Changes in seasonal precipitation indices in Romania using statistical downscaling models applied to climate change scenarios derived from the ENSEMBLES GCM simulations

P0008; EMS2008-A-00326
Sugimoto, N.; Tachibana, K.; Shiogama, H.; Nozawa, T.
Climate variability visualized by high speed spherical self-organizing map

P0009; EMS2008-A-00403
Spekat, A.; Kreienkamp, F.; Enke, W.
A hybrid statistical-dynamical method for regional climate scenarios – sensitivity to the employment of different large-scale models

P0010; EMS2008-A-00219
Regional climate change projections for eastern Mediterranean and the middle east

P0011; EMS2008-A-00038
Kitaev, L.
Climate and snow accumulation over Northern Europe – modern and future changes

P0012; EMS2008-A-00067
Vicente-Serrano, S.M.; López-Moreno, J.I.
Differences in the nonstationary influence of the NAO on European precipitation under different climate change scenarios

P0013; EMS2008-A-00079
Cane, D.; Milelli, M.; Pelosini, R.; Ronchi, C.; De Luigi, C.; Loglis, N.
Multimodel SuperEnsemble downscaling of regional climate model scenarios in the alpine area
Regional Model climatic simulation of Western Europe and the Iberian Peninsula for the Ensembles Project emissions scenario

Scenarios of Changes in Extreme Daily Temperatures and Heavy Precipitation over Europe: Application of Extreme Value Models with Time-dependent Parameters in GCM Outputs

Dynamical versus statistical downscaling in the region of Central Europe

Vertical structures in two AO-GCMs including high resolved stratosphere

Climate simulations for Poland with RegCM

Uncertainties in future temperature and precipitation changes over the Czech Republic

软计算模型对年度降雨量的预测

Impact of snow cover on inter-annual variability of the NH winter circulation in an ensemble GCM simulation forced by satellite observations

Verification of the performance of global circulation models in monthly temperature and precipitation simulation

Drought trends in Romania under the climate change projections of the 21st century

Analysis of expected regional climate change for the Carpathian basin using A2 and B2 scenario runs of model PRECIS

Temperature and precipitation extremes from regional climate model scenarios over Cyprus

Validation of different regional climate models over the Carpathian Basin

soft computing models for Annual rainfall prediction

Impact of the calibration of downscaled ensemble DEMETER temperature data over France

Application of Fuzzy Logic to Monthly Temperature and Precipitation Forecasts

A climatological analysis of diabatic processes associated with extratropical cyclones

Storminess and related large-scale atmospheric circulation patterns in reanalysis data and an ensemble of global climate models

High speed non-empirical cyclone detection method

Extreme midlatitude cyclones and their relationship to large-scale modes of variability in the Northern Hemisphere (solicited)

Windstorm events in Lisbon (1990-2006): atmospheric circulation patterns and sounding derived stability indices

A cluster analysis of wind storms over Europe
Chairperson: N.N.

11:00–11:30; EMS2008-A-00471
Philipp, A.
The COST733 database of weather and circulation type classifications: conformance and differences between methods and their results (solicited)

11:30–12:00; EMS2008-A-00465
Beck, C.
Evaluation and comparison of circulation classifications – towards a quantification of the performance of classification methods (solicited)

12:00–12:15; EMS2008-A-00278
Huth, R.
Synoptic-climatological applicability of classifications of circulation types collected within the COST733 Action

12:15–12:30; EMS2008-A-00493
Erpicum, M.; Fettweis, X.; Mahille, G.
Analysis of climatic conditions of wildfires in Belgium with an automatic daily weather pattern classification

12:30–12:45; EMS2008-A-00625
Boroneant, C.; Colfescu, I.; Esteban, P.; Martin-Vide, J.
Classification of atmospheric circulation patterns producing significant daily rainfalls in Romania

12:45–13:00; EMS2008-A-00409
Spekat, A.; Kreienkamp, F.; Enke, W.
Classification with purpose and attitude – do not forget the users of climatological information!

13:00 END OF ORAL PROGRAMME UC5
(to be continued on Friday)

UC5 Synoptic Climatology
- POSTER PROGRAMME

Convener: Benestad, R.
Co-Convener(s): Lionello, P.; Huth, R.
Display Time: Wednesday, 08:00–Friday, 13:00

Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0055; EMS2008-A-00424
Lionello, P.; Ferrara, E.; Ulbrich, U.
Characterization of cyclones in the North Atlantic and Mediterranean regions

P0056; EMS2008-A-00611
Laurent, V.
Impact of climate change on the frequency of circulation types over the Euro-Atlantic area

P0057; EMS2008-A-00105
Vyazilova, N.A.; Vyazilova, A.E.
Cyclone activity variability in North Atlantic and European region

P0058; EMS2008-A-00651
Woyciechowska, J.; Ustrnul, Z.
Atmospheric circulation and surface air temperature on the Northern Hemisphere

P0059; EMS2008-A-00441
Oikonomou, C.; Flocas, H. A.; Hatzaki, M.; Katavoutas, G.
Investigation of topography impact on precipitation extremes over Greece

P0060; EMS2008-A-00580
Regional Circulation Model for Assessment of Pressure System Effects in Southern Iran

P0061; EMS2008-A-00584
Kysely, J.; Gaal, L.; Beranova, R.; Stepaneck, P.
Application of the ’block maxima’ and ’peaks-over-threshold’ methods for estimating high quantiles of daily precipitation in regional climate model outputs

P0062; EMS2008-A-00280
Thenen, M.; Bobet, A.
Evaluation of empirical-statistical error correction of daily precipitation from a regional climate model in the Alpine Region

P0063; EMS2008-A-00606
Vicente-Serrano, S.M.; Begueria, S.; Lopez-Moreno, J.J.; El Kenawy, A.M.; Angulo, M.
Daily atmospheric circulation events and extreme precipitation risk: the role of the North Atlantic Oscillation, the Western Mediterranean Oscillation and the Mediterranean Oscillation in Northeast Spain

P0064; EMS2008-A-00654
Adamczyk, R.; Ustrnul, Z.
Atmospheric circulation and total cloudiness in the European polar region

P0065; EMS2008-A-00217
Barkan, J.; Kutiel, H.
A suggested Index for determining the existence of transportation of Saharian dust into Europe

P0066; EMS2008-A-00343
Casado, M.J.; Pastor, M.A.; Doblas-Reyes, F.J.
Impact of climate change on the frequency of circulation types over the North Atlantic Oscillation

P0067; EMS2008-A-00627
Laurent, V.
TSUP position during ENSO phases

P0068; EMS2008-A-00183
Salsón, S.; Cruz, R.; Lago, A.; Lage, A.
A weather classification is used as a tool for understanding climate change. Application in Galicia (Northwest of Spain)

P0069; EMS2008-A-00608
Pongrácz, R.; Bartholy, J.
NAO- and MCP-related climate signals in the Carpathian basin

P0070; EMS2008-A-00410
Tammets, T.; Paljak, T.
Statistical and synoptical overview and analysis of extreme hot and cold periods in Estonia since 1961

P0071; EMS2008-A-00349
Pastor, M.A.; Casado, M.J.; Doblas-Reyes, F.J.
Relationship between circulation types classifications and North Atlantic Oscillation phases

P0072; EMS2008-A-00555
Sauter, T.; Volz-Thomas, A.; Pätz, H.W.; Schneider, C.
Application of Self-organizing maps to define weather types for the analysis of trace gas distribution over the eastern United States

P0073; EMS2008-A-00549
Käsmacher, O.; Sauter, T.; Schneider, C.
Comparison of the results of linear and nonlinear objective weather type classification methods applied to the region of the northern North Atlantic
AC0 Generic adaptation approaches  
- ORAL PROGRAMME
Convener: Aerts, J.
Co-Conveners: de Pater, F.
Lecture Room: Forum
Chairperson: de Pater, F.; Aerts, J.
8:30–10:30 Keynote Presentations (programme see page 16)
10:30 Coffee Break
Chairperson: de Pater, F.; Aerts, J.
17:00–18:30 Adaption: conclusions and perspectives – Panel Discussion (programme see page 16)
18:30 END OF ORAL PROGRAMME AC0

AC1 Urban and building environments, tourism, recreation and health  
- ORAL PROGRAMME
Convener: Bessemoulin, P.
Co-Conveners: Cegnar, T., van Engelen, A., Wilbanks, T., Tol, R.
Lecture Room: M
Chairperson: N.N.
11:00–11:15; EMS2008-A-00306
Geurts, C.; Steenbergen, R.; Aries, M.; Nijland, T.; van Bentum, C.; Havermans, J.
Climate change and the Dutch building sector
11:15–11:30; EMS2008-A-00419
Fortuniak, K.
Short time wind gusts and wind pulsations for urban location in Lodz, central Poland
11:30–11:45; EMS2008-A-00647
Schneider, H.C.; Bijl, K.; van Cranenburgh, S.; Ernst, L.; van der Heide, M.; Rovers, V.; Star, J.K.
The Dutch adaptation scan for local authorities
11:45–12:00; EMS2008-A-00055
Jonkeren, O.E.; Jourquin, B.; Rietveld, P.
Modal-split effects of climate change: the effect of low water levels on the competitive position of inland waterway transport in the river Rhine area
12:00–12:15; EMS2008-A-00727
McEvoy, D.
Understanding adaptation as a process: reflections from urban, health and tourism case studies
12:15–12:30; EMS2008-A-00159
Camacho, J.; Cano, D.; Cervigón, P.; Gutierrez, M.; Subiza, J.; Cadenas, I.
Applying climate and forecast tools to pollen events with consequences in public health in Spain
12:30–12:45; EMS2008-A-00569
Yilmaz, S.; Toy, S.; Yildiz, N.; Irmak, M.A.
The role of climatic elements in public tendency towards alternative tourism and the sample of Turkey?
12:45–13:00; EMS2008-A-00616
Dotzek, N.
Adaptation of airport operations and reinsurance business to severe thunderstorm hazard in a changing climate - the RegioExAKT project
13:00 END OF ORAL PROGRAMME AC1
P0085; EMS2008-A-00576
Yilmaz, S.; Yildiz, N.; Toy, S.
Determination of the effects of wetlands on urban climate

P0086; EMS2008-A-00416
Spekat, A.; Kreienkamp, F.; Enke, W.
Estimating impacts of climate change with a hybrid statistical-dynamical regional climate model

P0087; EMS2008-A-00476
Bonacquisti, V.; Siani, A.M.
Estimation of surface roughness length in Rome by means of sonic anemometer measurements

END OF POSTER PROGRAMME AC1

AC2 Climate proofing of water systems
- ORAL PROGRAMME

Convener: van de Ven, F.
Co-Conveners: Bierkens, M., Ottens, J.
Lecture Room: Forum
Chairperson: N.N.

11:00–11:15; EMS2008-A-00739
Van de Ven, F.
Climate proofing of water systems in urban areas (solicited)

11:15–11:30; EMS2008-A-00433
Mutiga, J.K.; Zu, Z.; Woldai, T.; ITC
Application of Multi - Criteria Evaluation Process (MCE) to select Rainwater Harvesting sites as a mitigation measure in responding to climate Change in Water Scarce Basin of SSA: A case study of Ewaso Ng'iro North Basin, Kenya

11:30–11:45; EMS2008-A-00745
de Wit, M.
Water stress in the Meuse basin

11:45–12:00; EMS2008-A-00292
de Bruin, K.; van Ierland, E.C.; Groeneveld, R.A.; Goosen, H.
Sink or swim? Adapting to climate change at six meters below sea-level

12:00–12:15; EMS2008-A-00359
Climate change-driven adaptation measures in a coupled hydrological-atmospheric model

12:15–12:30; EMS2008-A-00337
Timmerman, J.G.; Buntisma, J.J.
Guidance towards climate-proofing of water management

12:30–12:45; EMS2008-A-00746
Kwadijk, J.; van Vuren, S.
Scenario analysis in water management

12:45–13:00; EMS2008-A-00747
van den Berg, G.A.; Frjns, J.; Zwolsman, J.J.G.
Implementation of climate adaptation and mitigation strategies for drinking water production in The Netherlands

13:00 END OF ORAL PROGRAMME AC2

AC2 Climate proofing of water systems
- POSTER PROGRAMME

Convener: van de Ven, F.
Co-Conveners: Bierkens, M., Ottens, J.
Display Time: Wednesday, 08:00–Friday, 13:00
Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0088; EMS2008-A-00557
Nair, K.S.
Sustainable management of the water resources of India in a changing climate

P0089; EMS2008-A-00240
Berdon, N.B.P.
Floods in Kragujevac on 10 August 2007

P0090; EMS2008-A-00529
Manning, L.J.; Hall, J.W.; Fowler, H.J.; Kilsby, C.G.; Walsh, C.L.; Bekele, T.
Using probabilistic climate change information for water resources assessment

P0091; EMS2008-A-00513
Scholten, A.; Rothstein, B.; Baumhauer, R.; Nilson, E.; Holtman, B.
Mass-cargo-dependent industries and Climate Change – Is climate change a planning issue for mass-cargo dependent industries along the River Rhine?

P0091a; EMS2008-A-00440
Jeuken, A.; van Waveren, H.; Kwadijk, J.
Tipping points in the Dutch water management with respect to climate change

END OF POSTER PROGRAMME AC2

AC3 Risk Management for (re)insurance and financing
- ORAL PROGRAMME

Convener: Surminsky, S.
Co-Conveners: Golnaraghi, M.
Lecture Room: M
Chairperson: SURMINSKY, S.; GOLNARAGHI, M.

14:00–14:15; EMS2008-A-00761
Surminsky, S.
Climate Change Adaptation - an area of collaboration between insurance industry and the science community (solicited)

14:15–14:30; EMS2008-A-00660
Patmore, N.; Herweijer, C.; Ward, B.; Muir-Wood, R.
Maintaining Insurability in the Face of Rising Climate Risks

14:30–14:45; EMS2008-A-00598
Modeling weather-within-climate for index insurance contract design

14:45–15:00; EMS2008-A-00762
Golnaraghi, M.
WMO Initiative in Supporting CAT Insurance and Weather Risk Management Markets

15:00–15:15
Invited: Swiss Re on Financial Risk Transfers

15:15–15:30
Höppe, P.
Concluding remarks and future outlook

15:30–16:00
Questions & Answers
AC3 Risk Management for (re)insurance and financing - POSTER PROGRAMME  
Convener: Surminsky, S.  
Co-Convener(s): Golnaraghi, M.  
Display Time: Wednesday, 08:00–Friday, 13:00  
Authors in Attendance: Thursday, 18:30–20:00  
Poster Area: Forum Lounge (Ground Floor)  
Chairperson: SURMINSKY, S.; GOLNARAGHI, M.  

**P0092; EMS2008-A-00579**  
Osgood, D.; McLaurin, M.  
Using index-insurance to manage climate risk: issues in scale up and capacity building  

**P0093; EMS2008-A-00377**  
Owen, W.  
Scoring asset resilience - developing a methodology for enhanced risk management  

**P0094; EMS2008-A-00008**  
Quiroga, S.; Iglesias, A.  
Climate risk of Mediterranean crops production in Spain  

**P0095; EMS2008-A-00594**  
Mavrakis, A.; Theoharatos, G.; Jakovides, K.; Lykoudis, S.  
On the relationship between climatic indices, solar activity and air quality in an industrialized area of Eastern Mediterranean (Thriassion Plain-Greece)  

END OF POSTER PROGRAMME AC3

AC4 Environment - ORAL PROGRAMME  
Convener: McGlade, J.  
Co-Convener(s): Jol, A., Lavalle, C.  
Lecture Room: Forum  
Chairperson: JOL, A.  

14:00–14:15; EMS2008-A-00507  
Jol, A.; Lavalle, C.; Menne, B.; van Minnen, J.; Raes, F.; Stastny, P.; Erhard, M.; Voigt, T.  
The 2008 EEA-JRC-WHO report 'Impacts of Europe’s changing climate’  

14:15–14:30; EMS2008-A-00656  
Klein Tank, A.  
Climate change information for environmental policy in Europe  

14:30–14:45; EMS2008-A-00388  
Massey, E.; Bergsma, E.; van Minnen, J.  
A framework to compare climate change adaptation in 29 European countries  

14:45–15:00; EMS2008-A-00720  
SETTELE, J.; ALARM TEAM  
Climate impact on biodiversity: approaches and results of the ALARM project  

15:00–15:15; EMS2008-A-00732  
Harley, M.; van Ham, C.; Price, J.; Tucker, G.; Keeder, G.  
Biodiversity and climate change in relation to the Natura 2000 network  

vonk, M.; van der Hoek, D.C.J.; Vos, C.C.  
Adaptation strategies to make Dutch nature climate change proof  

Eccel, E.; Rea, R.; Crisci, A.  
Apple trees and spring frost: trends of risk in a warming climate  

15:45–16:00; EMS2008-A-00024  
Utset, A.; del Rio, B.; Santos, J.M.  
A bottom-up approach to introduce Climate-Change adaptation options in Castilla y Leon agriculture  

16:00  
Coffee Break  

16:30–16:45; EMS2008-A-00690  
Swart, D.; Prins, P.; Verhagen, J.; Hermans, T.  
Influence of climate change on the agricultural landscape  

16:45–17:00; EMS2008-A-00646  
Vinocur, M.; Seiler, R.  
Potential effects and possible adaptation strategies to future climate change and changing climate variability on peanut yields  

17:00 END OF ORAL PROGRAMME AC4

AC4 Environment - POSTER PROGRAMME  
Convener: McGlade, J.  
Co-Convener(s): Jol, A., Lavalle, C.  
Display Time: Wednesday, 08:00–Friday, 13:00  
Authors in Attendance: Thursday, 18:30–20:00  
Poster Area: Forum Lounge (Ground Floor)  
Chairperson: JOL, A.  

**P0096; EMS2008-A-00434**  
Popovici, F.  
water management decision concerning implementation of water frame directive (wfd) 2000/60/ec in romania  

**P0097; EMS2008-A-00756**  
Namodji, L.  
Adaptation of agricultlure in Chad to climate change  

END OF POSTER PROGRAMME AC4

AC5 Climate change and society (co-listed in MS) - ORAL PROGRAMME  
Convener: Auer, I.  
Co-Convener(s): Rebernik, P., Connerade, J.  
Lecture Room: J  
Chairperson: AUER, I.  

11:00–11:30; EMS2008-A-00437  
Boehm, R.  
Science and public discussion on climate change – remarks of a climatologist (solicited)  

11:30–11:45; EMS2008-A-00681  
Hallegatte, S.  
Adaptation to Climate Change: Do Not Count on Climate Scientists to Do All The Work  

11:45–12:00; EMS2008-A-00020  
Biesbroek, G.R.; Swart, R.J.  
A comparative analysis of national adaptation strategies in Europe  

END OF POSTER PROGRAMME AC4
12:00–12:15; EMS2008-A-00509
Klein, R.J.T.; The Mistra-SWECIA consortium
Adaptation as a process of social learning: a new Swedish initiative

12:15–12:30; EMS2008-A-00144
Cotnoir, A.; NDJAF OAAGA, H.; Lepage, L.; Gachon, P.; Bokoye, A.; Seidou, O.; Berteau, G.
Climate Change Adaptation Capacity Support in the Sahel

12:30–12:45; EMS2008-A-00096
Cradock-Henry, N.
Adaptation to climatic variability and change within the context of multiple risks: evidence from the New Zealand dairy industry

12:45–13:00; EMS2008-A-00748
Mukhopadhyay, D.
Social and economic impact of climate change in developing countries

13:00 Lunch Break

14:00–14:30; EMS2008-A-00117
Karhu, J. A.; THE CCCRP TEAM
Climate Change Community Response Portal (solicited)

14:30–14:45; EMS2008-A-00350
Bessembinder, J.
Experiences with tailoring climate information

14:45–15:00; EMS2008-A-00649
Gupta, J.; Klostermann, J.E.M.; Termeer, C.J.A
Conceptual framework for assessing climate-proofness of governance structures

15:00–15:30; EMS2008-A-00413
Spekat, A.; Kreienkamp, F.
Communicating climate change consequences and adaption necessities (solicited)

15:30–15:45; EMS2008-A-00045
Ye, Wang; Xiaodong, Yan
Anthroposphere - an interactive component in the Earth system

15:45–15:51; EMS2008-A-00296
Pryce, G.; Mackay, D.
Modelling the Socio-Economic Impacts of Climate Change

15:51 END OF ORAL PROGRAMME AC5

AC5 Climate change and society (co-listed in MS) - POSTER PROGRAMME

P0099; EMS2008-A-00296
Pryce, G.; Mackay, D.
Modelling the Socio-Economic Impacts of Climate Change

END OF POSTER PROGRAMME AC5

Atmosphere and the Water Cycle

AW2 Low frequency variability and long term memory in the climate system (co-listed in UC) - ORAL PROGRAMME

Convener: Blender, R.
Co-Conveners: Fraedrich, K.
Lecture Room: M Chairperson: BLENDER, R.
8:30–8:45; EMS2008-A-00644
Vyushin, D.I.; Kushnir, P.J.
Power law spectral behaviour of the 20th century air temperature

8:45–9:00; EMS2008-A-00282
Lennartz, S.; Bogachev, M. I.; Eichner, J. F.; Bunde, A.
Statistics of return intervals and finite size effects in long-term correlated and multifracta data sets

9:00–9:15; EMS2008-A-00657
Zhu, X.
Impact of the Atlantic Multidecadal Oscillation on the North Pacific

9:15–9:30; EMS2008-A-00445
Riemann-Campe, R.-C.; Blender, B.; Fraedrich, F.
CAPE induced convective Precipitation Variability

9:30–9:45; EMS2008-A-00214
Faulwetter, R
Local Correlation Extremea and Teleconnection Patterns

9:45–10:00; EMS2008-A-00323
Dalu, G.A.; Coecimiglio, P.; Maroscia, G.; Baldi, M.
Cyclone density and weatherlike perturbation trajectories in the South Pacific ocean

10:00–10:15; EMS2008-A-00397
Pisoft, P.
Sunspot cycle global patterns? - a study of spatio-temporal distribution of 11-years cycle

Rybski, D.; Bunde, A.; von Storch, H.
Climatological temperature records: persistence at asymptotic time-scales

Marques, C.; Rocha, A.; Corte-Real, J.
Wave number energetics from three reanalysis data sets

Laurent, V.L.; Maamaatuaiahutapu, K.M.
Variabilities in Rainfall in French Polynesia

10:18–10:19; EMS2008-A-00215
Faulwetter, R.
The Seasonal Cycle of Northern Hemisphere Teleconnection Patterns

10:19 END OF ORAL PROGRAMME AW2
AW2 Low frequency variability and long term memory in the climate system (co-listed in UC) - POSTER PROGRAMME
Convener: Blender, R.
Co-Conveners(s): Fraedrich, K.
Display Time: Wednesday, 08:00–Friday, 13:00
Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: BLENDER, R.

P0103; EMS2008-A-00149
Rybski, D.; Bunde, A.; von Storch, H.
Climatological temperature records: persistence at asymptotic time-scales

P0104; EMS2008-A-00029
Marques, C.; Rocha, A.; Corte-Real, J.
Wave number energetics from three reanalysis data sets

P0105; EMS2008-A-00602
Laurent, V.L.; Maamaatuaiahutapu, K.M.
Variabilities in Rainfall in French Polynesia

P0106; EMS2008-A-00215
Faulwetter, R.
The Seasonal Cycle of Northern Hemisphere Teleconnection Patterns

END OF POSTER PROGRAMME AW2

AW4 Large scale air-sea interaction processes and their influence on the Euro-Mediterranean climate (co-listed in UC) - ORAL PROGRAMME
Convener: Gualdi, S.
Co-Conveners(s): May, W., Somot, S.
Lecture Room: N
Chairperson: CALMANTI, S.
14:00–14:30; EMS2008-A-00081
May, W.
Climatic changes in the European region associated with a global “2°C-stabilization” scenario simulated by the ECHAM5/MPI-OM coupled climate model (solicited)

14:30–14:45; EMS2008-A-00179
Haarsma, R.; Selten, F.; vd Hurk, B.; Hazeleger, W.; Wang, X.
Dry Mediterranean Soils due to Greenhouse Warming bring easterly Winds over Central Europe

14:45–15:00; EMS2008-A-00073
Mathew, R.
Teleconnections between the Indian Monsoon and the Mediterranean Sea as simulated by a coupled General Circulation Model

15:00–15:15; EMS2008-A-00162
Bellucci, A.; Gualdi, S.; Navarra, A.
A coupled ocean-atmosphere oscillatory mode in the Atlantic sector: implications for the Mediterranean region

Sevault, F.; Beuvier, J.; Somot, S.; Déqué, M.; Ludwig, W.; Rogel, P.
Modelling the Mediterranean Sea over the last 40 years using dynamical downscaling of ERA40 and interannual hydrological forcings

15:30–16:00; EMS2008-A-00259
Kallos, G.; Solomos, S.; Kushta, I.; Spyrou, C.; Mavromatis, E.; Sititha, M.; Mitsakou, C.; Tyrlis, E.; Pyharouilis, I.; Katsafados, P.
Surface Characteristics and Their Impact on Regional Meteorological and Climatological Patterns (solicited)

16:00 Coffee Break
Chairperson: MAY, W.

16:30–16:45; EMS2008-A-00089
Anav, A.; Artale, V.; Calmanti, S.; Carillo, A.; Dell’Aquila, A.; Pisacane, G.; Rupolo, V.; Ruti, P.M.; Sannino, G.; Struglia, M.V.; Giorgi, F.; Pal, J.; Bi, X.; Raucher, S.
A regional earth system for the Mediterranean region

16:45–17:00; EMS2008-A-00344
Calmanti, S.; Sevault, F.; Somot, S.
Air-Sea Energy Fluxes in a Coupled Regional Climate Model over the Mediterranean Sea

17:00–17:30; EMS2008-A-00412
Gaetani, M.; Baldi, M.; Dalu, G.A.
Influence of the West African monsoon on the summer Mediterranean climate (solicited)

17:30–17:45; EMS2008-A-00170
Krichak, S.; Bretigand, J.
Variations of precipitation component of the water cycle in the Mediterranean Region

17:45–18:00; EMS2008-A-00401
Sanna, A.; Alessandri, A.; Gualdi, S.
The effects of land-sea contrast in multimodel ensemble simulations on the low-frequency variability in North Atlantic and Mediterranean

18:00–18:15; EMS2008-A-00376
Demetrashvili, D. I.; Kvaratskhelia, D. U.
Numerical study of response of the Black Sea thermal regime to variability of atmospheric circulation

18:15–18:30; EMS2008-A-00662
Voskresenskaya, E.; Polonsky, A.; Yurovsky, A.
Large-scale processes in the coupled ocean-atmosphere system and climate anomalies in the Black sea/Mediterranean region

18:30 END OF ORAL PROGRAMME AW4

AW4 Large scale air-sea interaction processes and their influence on the Euro-Mediterranean climate (co-listed in UC) - POSTER PROGRAMME
Convener: Gualdi, S.
Co-Conveners(s): May, W., Somot, S.
Display Time: Wednesday, 08:00–Friday, 13:00
Authors in Attendance: Thursday, 18:30–20:00
Poster Area: Forum Lounge (Ground Floor)
Chairperson: N.N.

P0107; EMS2008-A-00655
Jovanovic, G.R.; Reljin, I.; Reljin, B.
The influence of dominant global climate phenomena ENSO, NAO and AO on climate in Serbia

P0108; EMS2008-A-00078
Kindap, T.; Sen, O.L.; Karaca, M.; Unal, A.
The Black Sea impact on a severe snow episode over the city of Istanbul
MS3 Gender Equality  
- ORAL PROGRAMME  
Convener: Huebener, H.  
Co-Convener(s): Stoll, M., Schuepbach, E., Maione, M.  
Lecture Room: M  
Chairperson: N.N.  
16:30–16:45; EMS2008-A-00224  
Agersten, S.  
Good intentions for gender equality in Norway  
16:45–17:00; EMS2008-A-00239  
Tala, S.; Lauros, J.; Vehkamäki, H.  
Gender issues in physics education at the University of Helsinki  
17:00–17:15; EMS2008-A-00347  
Jarosova, M.  
Gender issue at Slovak Hydrometeorological Institute  
17:15–17:30; EMS2008-A-00052  
Rahimi, N.  
Women, energy and environment, challenges and opportunities  
- 17:30–17:45; EMS2008-A-00371  
Quantify Gender Issues  
17:45–18:00; EMS2008-A-00379  
Schuepbach, E.; Ladstätter-Weissenmayer, A.; Goodess, C.; Kovats, S.; Textor and GEOmon Gender Committee, Ch.  
Creating Partnerships for Learning about Career Progression in Atmospheric Science: Mentoring  
18:00–18:15; EMS2008-A-00620  
Charlevoix, D.  
Women’s success in atmospheric sciences: the role of programs in building social capital  
18:15–18:30 Discussion on further steps towards Gender equality  
18:30 END OF ORAL PROGRAMME MS3
10:00–10:15; EMS2008-A-00517  
**Sundius, C.; Karppanen, J.**  
Training and Maintaining Skills of Meteorological Professionals in Europe with Computer Assisted Learning (solicited)

10:15–10:30; EMS2008-A-00210  
**Snyder, B.; Smith, T.; Doyle, C.; Wesley, D.**  
Towards a Comprehensive Training Program for Forecasters at Vancouver 2010 Olympic and Paralympic Winter Games

10:30 END OF ORAL PROGRAMME MS4

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**MS4 Education in Atmospheric and related Sciences**  
- **POSTER PROGRAMME**

Convener: Halenka, T.  
Display Time: Wednesday, 08:00–Friday, 13:00  
Authors in Attendance: Thursday, 18:30–20:00  
Poster Area: Forum Lounge (Ground Floor)  
Chairperson: N.N.

**P0151; EMS2008-A-00487**  
Schuepbach, E.; **Slini, T.;** Gross, K.  
Training the Next Generation of Early Career Scientists in ACCENT

END OF POSTER PROGRAMME MS4
### Friday, 3 October 2008

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<td>UC2/NWP4: Climate prediction &amp; scenarios: months-decades-century – 7</td>
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Short Course on Radiation

Abstract numbers are abbreviated. The full abstract numbers that begin with “EMS2008-” are required for any inquiries. Only the name of the presenting author is given. Session titles may be short versions of the full session titles.
European Conference on Applied Climatology

UC1 Climate change assessments: trends and variability

- ORAL PROGRAMME

Convener: Jones, P.
Co-Convener(s): Rebetez, M., Heino, R., Klein Tank, A.
Lecture Room: L
Chairperson: KLEIN TANK, A.

11:00–11:15; EMS2008-A-00112
Drost, F.; England, M. H.
On the spatial pattern of the Southern Annular Mode

11:15–11:30; EMS2008-A-00209
Falarz, M.
Centres of action of the atmosphere in the Northern Hemisphere: changes, interactions, influence on temperature in Europe

11:30–11:45; EMS2008-A-00098
Taboada, J.J.; Lorenzo, M.N.; Ramos, A.M.; Gimeno, L.
Trends in circulation patterns and weather types in north Atlantic area affecting NW Iberian Peninsula

11:45–11:50; EMS2008-A-00123
Pinto, J.G.; Zacharias, S.; Fink, A.H.; Leckebusch, G.C.; Ulbrich, U.
Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO

11:50–12:00; EMS2008-A-00135
Pinto, J.G.
On the spatial pattern of the Southern Annular Mode

12:00–12:15; EMS2008-A-00145
Spekat, A.; Kreienkamp, F.; Enke, W.
Uncertainty square: Bandwidth of future climate change from the modeller’s and the decision maker’s perspective

12:15–12:30; EMS2008-A-00345
Hofstra, N.
The ENSEMBLES gridded climate dataset and its use for evaluation of extreme RCM outputs (solicited)

13:00 Lunch Break

Chairperson: WIBIG, J.

14:00–14:30; EMS2008-A-00107
Nikulin, G.; Kjellström, E.; Bärring, L.
Changes in daily temperature variability over Europe from an ensemble of regional climate simulations driven by several AOGCMs (solicited)

14:30–14:45; EMS2008-A-00167
Schaedler, G.; Frueh, B.; Feldmann, H.
Present and future return values of heavy precipitation over complex terrain – the Black Forest region in Germany as an example

14:45–15:00; EMS2008-A-00435
Tomassini, L.; Jacob, D.
Spatial analysis of trends in extreme precipitation events in high-resolution climate model results and observations for Germany

15:00–15:15; EMS2008-A-00534
Bakker, A.
Bias correction and resampling of RCM daily precipitation and temperature for the assessment of extreme Rhine discharges

Hurkmans, R.; Terink, W.; Uijlenhoet, R.; Torfs, P.
Climate change impacts on extreme discharges in the Rhine basin

15:30–15:45; EMS2008-A-00223
Szepszó, G.
Preliminary results based on the climate change simulation with the REMO model over the Carpathian Basin

15:45–16:00; EMS2008-A-00106
Kostopoulou, E.; Tollika, K.; Tegoulias, I.; Giannakopoulos, C.; Anagnostopoulou, C.; Maheras, P.
An assessment of strengths and weaknesses of ENSEMBLES Regional Climate Models in detecting climate extremes for the Mediterranean region

16:00 END OF ORAL PROGRAMME UC1

UC2/NWP4 Climate prediction and scenarios from months to decades to century

- ORAL PROGRAMME

Convener: Appenzeller, C.
Co-Convener(s): Goodess, C., Troccoli, A., van der Linden, P.
Lecture Room: Forum
Chairperson: GOODESS, C.

8:30–8:45; EMS2008-A-00293
Deque, M.; Somot, S.
Regional simulations in ENSEMBLES: from weights to probabilities

8:45–9:00; EMS2008-A-00289
Buser, C.; Kuensch, H.; Schaer, C.
Estimating uncertainties in predicting climate distributions: A Bayesian multi-model method

9:00–9:15; EMS2008-A-00522
Gobiet, A.; Themeßl, M.; Pfeifer, S.; Lorenz, P.; Jacob, D.
On the Value of Empirical-Statistical Downscaling and Model Error Correction Methods for Climate Scenario Production

9:15–9:30; EMS2008-A-00477
Lorenz, P.; Jacob, D.
Validation of temperature trends in the ENSEMBLES RCM runs driven by ERA40

9:30–9:45; EMS2008-A-00108
Kjellström, E.; Nikulin, G.
Evaluation of simulated daily maximum and minimum temperatures from an ensemble of regional climate models

9:45–10:00; EMS2008-A-00700
Halenka, T.; Belda, M.; Miksovsky, J.; Farda, A.; Steppek, P.; Skalak, P.
High resolution regional climate modelling: comparison and validation of ERA40 driven simulations for Czech Republic in EC FP6 project CECILIA, preliminary comparison of scenarios runs

10:00–10:15; EMS2008-A-00457
Torres, L.; del Carre, M.; Ribalaygua, J.
Verification results of a Two-Step Analog Method applied over the European ENSEMBLES 0.22° rotated grid

10:15–10:30; EMS2008-A-00530
Siek, K.; Lorenz, P.; Jacob, D.
Variability in ensemble simulations due to domain shifts in the regional climate model REMO

10:30 Coffee Break
Towards climate simulations at cloud-resolving scales

Drivers and reliability of future changes in extreme precipitation

Compensating model errors: The case of simulated rainfall for Romania in six European GCMs

When can we expect extremely high surface temperatures?

Statistical Downscaling of Snow Trends in Northern Spain from Global Climate Models

Assessment of changes in climate, extremes and associated sectoral impacts using high resolution regional climate model scenarios for the Eastern Mediterranean

First steps towards probabilistic climate change scenarios based on statistical downscaling

11:30–11:45; EMS2008-A-00673
Bülow, K.; Tomassini, L.; Jacob, D.
Comparison of daily temperature and precipitation time series from different regional climate models to observations within the Rhine drainage basin

11:45–12:00; EMS2008-A-00088
Huebener, H.; Cubasch, U.
Compensating model errors: The case of simulated rainfall for Romania in six European GCMs

12:00–12:15; EMS2008-A-00036
Sterl, A.; Severeinjs, C.; Dijkstra, H.; Hazeleger, W.; van Oldenborgh, G.J.
When can we expect extremely high surface temperatures?

12:15–12:30; EMS2008-A-00628
Statistical Downscaling of Snow Trends in Northern Spain from Global Climate Models

12:30–12:45; EMS2008-A-00420
Giannakopoulos, C.; Kostopoulou, E.; Tolika, K.; Anastasopoulou, C.; Maheras, P.; Tziotziou, K.
Assessment of changes in climate, extremes and associated sectoral impacts using high resolution regional climate model scenarios for the Eastern Mediterranean

12:45–13:00; EMS2008-A-00277
Compensating model errors: The case of simulated rainfall for Romania in six European GCMs

13:00 Lunch Break

Chairperson: APPENZELLER, C.

14:00–14:15; EMS2008-A-00208
Goodess, C.M.
The challenges of providing usable probabilistic information at regional and local scales in the ENSEMBLES project

14:15–14:30; EMS2008-A-00658
Klein Tank, A.
The Dutch series of climate change scenarios for local adaptation strategies

14:30–14:45; EMS2008-A-00058
van den Hurk, B.J.J.M.; Bakker, A.; Bessemberd, J.
tailoring of general KNMI’06 scenarios for local planning

14:45–15:00; EMS2008-A-00115
Benestad, R.E.; Engen-Skaugen, T.; Hanssen-Bauer, I.
Empirical-Statistical Downscaling and applications

15:00–15:15; EMS2008-A-00406
Beersma, J.J.; Buishand, T.A.
Changes in extreme Rhine discharges based on the Ensembles RCM-GCM runs

15:15–15:30; EMS2008-A-00563
Wibig, J.; Rockel, B.
Scenarios for precipitation extremes in Poland for the 21st century according to CLM model

15:30–15:45; EMS2008-A-00469
Leckebusch, G.C.; Donat, M.; Wild, S.; Ulbrich, U.
Loss potentials of wind storms over Europe under anthropogenic climate change conditions based on an ensemble of GCMs and RCMs

15:45–16:00; EMS2008-A-00317
Warrick, R.; Lu, X.
Development and application of the SimCLIM sea-level scenario generator for impact and adaptation assessment

16:00 END OF ORAL PROGRAMME UC2/NWP4

UC3 Climate monitoring, mapping and data management

- ORAL PROGRAMME

Convener: Forland, E.

8:00–8:30; EMS2008-A-00332
Gruber, C.; Auer, I.; Mestre, O.
Homogenization of daily maximum and minimum temperatures – a comparison of methods (solicited)

9:00–9:15; EMS2008-A-00697
Aguilar, E.; Rodrigo, F.S.; Luna, Y.; Rasilla, D.; Brunet, M.; Sigrø, I.
Homogenization of Spanish temperature series on a daily resolution. A step forward towards an analysis of extremes in the Iberian Peninsula

9:15–9:30; EMS2008-A-00230
Rasol, D.; Likso, T.
Homogenisation of Temperature Time Series in Croatia

9:30–9:45; EMS2008-A-00501
Cheval, S.; Szentimrey, T.; Manea, A.; Radita, I.
Homogenization of monthly precipitation series in Romania (1901-2005) by using metadata

9:45–10:00; EMS2008-A-00615
Stepanek, P.; Zahradnicek, P.; Skalak, P.
Data quality control and homogenization of air temperature and precipitation series in the area of the Czech Republic since 1961

10:00–10:15; EMS2008-A-00676
Andresen, L.
The Norwegian homogenization programme

10:15–10:30; EMS2008-A-00568
Petralli, M.; Massetti, L.; Orlandini, S.
Solar radiation exposure of shielded air temperature sensors and measurement error evaluation in an urban environment: a preliminary study in Florence, Italy

10:30 Coffee Break

Chairperson: BRUNET INDIA, M.

11:00–11:15; EMS2008-A-00414
Fuchs, T.; Schneider, U.
The Global Precipitation Climatology Centre (GPCC) - Precipitation monitoring and mapping on national, regional and global scale (solicited)

11:15–11:30; EMS2008-A-00362
Schüller, L.
EUMETSAT’s contribution to sustained climate monitoring from space
11:30–11:45; EMS2008-A-00395
Kothe, S.; Ahrens, B.; Nitsche, H.; Hechler, P.
A conceptual approach for climate monitoring with merged
satellite and in situ data
11:45–12:00; EMS2008-A-00338
Cindric, K.; Juras, J.
The outline on precipitation amount monitoring
12:00–12:15; EMS2008-A-00629
Zreda, M.; Shuttleworth, J.; Zeng, X.; Zweck, C.
COSMOS: Cosmic-ray Soil Moisture Observing System
12:15–12:30; EMS2008-A-00340
Ahrends, H.E.; Etzold, S.; Stöckli, R.; Wanner, H.; Buch-
mann, N.; Eugster, W.
Can digital camera imagery advance forest ecosystem
studies?
12:30–12:45; EMS2008-A-00295
Cros, S.; Stubenrauch, C.J.; Armante, R.; Chédin, A.;
Scott, N.A.
Cloud climatologies from satellite-based infrared soundings:
a new 5-year dataset from AIRS
12:45–13:00; EMS2008-A-00301
Tsydypov, V.; Zhamsoeva, G.; Zayakhanov, A.; Aur-
janaev, A.
Relationship of surface ozone with meteorological parame-
ters in atmosphere of Ulan-Ude

13:00 END OF ORAL PROGRAMME UC3

UC5 Synoptic Climatology
- ORAL PROGRAMME
Convener: Benestad, R.
Co-Convener(s): Lionello, P., Huth, R.
Lecture Room: J
Chairperson: N.N.
8:30–8:45; EMS2008-A-00672
van der Schrier, G.; Lubczynska, M.; Klein Tank, A.
Investigating the link between soil-moisture deficits and
spells of extreme temperatures in Europe
8:45–9:00; EMS2008-A-00195
Navarro, J.; Montávez, J.; García-Bustamante, E.;
Jiménez, P.; González-Rouco, J.
Dynamical and statistical wind downscaling in the Northeast
of the Iberian Peninsula
9:00–9:15; EMS2008-A-00314
Winterfeldt, J.; Weisse, R.
Does dynamical downscaling with regional atmospheric
models add value to surface marine wind speed from
reanalyses?
9:15–9:30; EMS2008-A-00488
Lotteraner, C.; Sperka, S.; Trapper, T.; Steinacker, R.;
Chimani, B.
Mesoscale Alpine Climatology
9:30–9:45; EMS2008-A-00551
Joly, B.; Nuisier, O.; Beaulant, A.L.; Somot, S.;
Ducrocq, V.; Joly, A.
Statistical and dynamical downscaling of large scale ingre-
dients for Heavy Precipitating Events of southeastern France
in a future climate
9:45–10:00; EMS2008-A-00364
Coccimiglio, P.; Lanini, M.; Baldi, M.
Regionalization and classification of climatic zones in
Italy: an evaluation of thermal stress indexes
10:00 END OF ORAL PROGRAMME UC5

Atmosphere and the Water Cycle

AW7 Atmospheric Hazards (co-listed in NWP)
- ORAL PROGRAMME
Convener: Stel, F.
Co-Convener(s): Giaiotti, D.
Lecture Room: M
Chairperson: GIAIOTTI, D. B.
8:30–8:45; EMS2008-A-00407
Cuevas, G.; Martinez, M.A.; Manso, M.
Use of MSG/SAF/NWC products in the monitoring of
Hurricane Gordon and its Extratropical Transition
8:45–9:00; EMS2008-A-00473
Martinez-Alvarado, O.; Gray, S. L.; Baker, L. H.
Conditional symmetric instability and the development of
sting jets
9:00–9:15; EMS2008-A-00012
Zavolgensky, M.V.; Rutkevich, P.B.
Tornado funnel-shaped cloud as convection in a cloudy layer
9:15–9:30; EMS2008-A-00632
Grubicic, V.; French, F.; Haimov, S.; Oolman, L.;
Billings, B.; Xiao, M.
Lower tropospheric waves and wave-induced turbulence
zones: Insights from T-REX
9:30–9:45; EMS2008-A-00244
Monteiro, A.; Sousa, C.; Sousa, J.
Heat Waves during the last century at Porto (1900-2006):
how to mitigate the most severe damages?
9:45–10:00; EMS2008-A-00139
Tzenkova-Bratoeva, A.; Ivancheva, J.; Videnov, Pl.;
Gospodinov, II.
Bioclimatic Conditions during the Heat Waves in Bulgaria in
the Summer Season 2007
10:00–10:15; EMS2008-A-00252
Pytharoulis, I.
Numerical study of the Eastern Mediterranean “bomb” of
January 2004
10:15–10:30; EMS2008-A-00075
Miglietta, M.M.; Moscatello, A.; Davolio, S.; Rotunno, R.
Numerical forecasts of a tropical-like cyclone over the
central Mediterranean
10:30 Coffee Break
11:00–11:15; EMS2008-A-00253
Stancalie, G.; Oprea, C.; Irimescu, A.; Antonescu, B.;
Burea, S.; Catana, S.; Cheval, S.; Dumitrescu, A.; Breza, T.
Severe flash flood in Romania. Case studies
11:15–11:30; EMS2008-A-00400
Gallai, I.; Giaiotti, D. B.; Glaic, I.; Stel, F.
The impacts of climate change on severe storms: state of the
art and future perspectives
11:30–11:45; EMS2008-A-00682
Antonescu, B.; Bell, A.
Tornadoes in Romania
11:45–12:00; EMS2008-A-00612
Dotzek, N.
Assessment of high-wind events from convectively driven
downdrafts
### AW7 Atmospheric Hazards (co-listed in NWP) - POSTER PROGRAMME

**Convener:** Stel, F.

**Co-Convener(s):** Giaiotti, D.

**Display Time:** Wednesday, 08:00–Friday, 13:00

**Authors in Attendance:** Thursday, 18:30–20:00

**Poster Area:** Forum Lounge (Ground Floor)

**Chairperson:** N.N.

1. **P0119; EMS2008-A-00567**
   **Schartner, T.; Nevir, P.; Leckebusch, G.C.; Ulbrich, U.**
   Forecast of convective events and lightning with the Dynamic State Index (DSI)

2. **P0120; EMS2008-A-00035**
   **Perez, R.C.**
   The role of temperature gradient and dew point in the convective storm process in Mendoza (Argentina)

3. **P0121; EMS2008-A-00225**
   **Säntti, K.; Hirvonen, J.; Hyvönen, R.**
   A Comparison of an atmospheric icing index and in-situ measurements at Luosto, Finland

4. **P0122; EMS2008-A-00392**
   **Manea, A.; Cheval, S.; Dumitrescu, A.; Ralita, I.; Baciu, M.**
   The analysis of some meteorological elements that can develop in hazards during the warm season in Romania

5. **P0123; EMS2008-A-00013**
   **Rutkevich, P.B.; Rutkeyvych, P.P.**
   Nonlinear convection in vertical channel

6. **P0124; EMS2008-A-00141**
   **Pirnach, A.; Dudar, S.; Shpyg, V.**
   Numerical simulation of frontal cloud systems accompanied dangerous events in Ukraine

7. **P0125; EMS2008-A-00450**
   **Krikkern, F.; Steeneveld, G.J.**
   Analysis of the Re-intensification of Tropical Cyclone Erin over Land with the Numerical Model MM5

8. **P0126; EMS2008-A-00626**
   **Pajek, M.**
   Severe storm nowcasting and monitoring with use of Meteosat Second Generation data (case study)

### Short Course on Radiation

**Convener:** Mes, F.

**Co-Convener(s):** Van Wely, L.

**Display Time:** 14:00–16:00
TEAM INDEX

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ALARM TEAM
Josef Settele (1), Miguel B. Araujo, Koos Biesmeijer, Wolfgang Cramer, Volker Hammen, Risto Heikkilä, Phil Hulme, Ulrich Karlson, Stefan Klotz, William Kunin, Glenn Marion, Theodora Petanidou, Kaja Peterson, Simon G. Potts, Petr Pysek, Mark Rounsevell, Oliver Schweiger, Joachim Spangenberg, Ingolf Steffan-Dewenter, Martin Sykes, Katrin Vohland, Marco Vighi, Gian-Reto Walther, Martin Zobel & Ingolf Kühn
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EMS2008-A-00699; p. 19
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3 National Meteorological and Hidrological Service of Gabon
4 National Meteorological and Hidrological Service of Sao Tomé et Príncipe
5 Direction de la Météorologie National du Congo
6 Direction de la Météorologie National du Cameroon
7 National Meteorological and Hidrological Service of Zimbabwe
8 National Meteorological and Hidrological Service of Angola
9 Agence Nationale de Météorologie et de Télédétection par Satellite, METTELSAT
10 National Meteorological and Hidrological Service of the Central African Republic
11 Climate Research Branch, Meteorological Service of Canada, Downsview, Ontario, Canada.

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Jeniffer Kinoti, Zhongbo Zu, and Tsahaei Woldai
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ModObs TEAM
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Anna M. Sempreviva (1,6), Hans E. Joergensen(1), Abha Sood (2), Lüder vonBremen (2), Tarja Savunen (3), Bengt Tammelin (3), Thomas Neumann (4), Frederique Cheruy (5), G.Luigi Liberti (6) Umberto Rizza (6), Alessandra Lantotte(6), Anna Rutgersson(7), Ann-Sofi Smedman (7), Igor Esau (8), Leo E. Jensen (9), Lars C. Christensen, (10), Birgitte Furevik (11), Oyvind Saetra (11)
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Protheus Group
ENEA A Anav, V Artale, S Calmanti, A Carillo, A Dell’Aquila, G Pisacane, V Rupolo, PM Ruti, G Sannino, MV Struglia,
ICTP F Giorgi, J Pal, X Bi, S Raucher

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The ADAGIO team

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Rob Allan, Met Office, EXETER, UK

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Dennis Wheeler, University of Newcastle, Newcastle upon Tyne, UK
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Markku Rummukainen, Erland Källén, Torsten Persson, Ben Smith, Richard Klein, Oskar Wallgren
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