



Sixth Annual Meeting of the
European Meteorological Society

Sixth European Conference on
Applied Climatology (ECAC)

Programme Book



Ljubljana, Slovenia, 4–8 September 2006



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WELCOME

Dear colleagues, welcome to the sixth EMS Annual meeting and the sixth European Conference on Applied Climatology (ECAC) that are being held jointly in the Cankarjev dom conference centre in Ljubljana, Slovenia. This joint conference brings together scientists, service providers and manufacturers from across Europe and provides a real forum for the exchange of ideas on future strategies in climatology and meteorology. Our aim to establish an international European conference that focuses on applications and involves the whole meteorological and climatological community has become a reality.

The ECAC, organized by the European Climate Support Network (ECSN) of EUMETNET, provides an opportunity and a framework for stimulating and supporting increased collaboration in the fields of climate monitoring, research and prediction and the provision of climate data for the research community. At the outset, we had hoped to hold all ECAC sessions in sequence in order to enable participants to attend all climate related sessions. However, the response to the call for contributions has been enormous and short periods with parallel sessions have been programmed to accommodate this. In addition we have made full use of the facilities available to provide a mix of interesting sessions throughout the whole week including the Friday.

The EMS programme has three themes - instruments and observations (with a session devoted to newly developed instruments), the atmosphere and the water cycle (a real time look) and information provision (an important element of the mission of the EMS).

Alongside the joint conference, FORALPS (Meteo-Hydrological Forecast and Observations for improved water Resource management in the ALPS) is holding its first meeting in the Cankarjev dom conference centre and all participants are welcome to attend this meeting.

The EMS and ECAC conferences would not have been possible without the work of the convenors and Martina Junge (the Secretary of the EMS) who developed and publicised 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 Ljubljana a reality – the EMS Member Societies and Associates, the ECAC Advisory Board, the Programme Committee, the Copernicus organization, the COST Programme and the Exhibitors. And, in particular, we are grateful for the continuing support of the local host, the Environmental Agency of the Republic of Slovenia (EARS), who has also organized the conference dinner which will be held on Wednesday and, for those interested, an excursion into the Slovenian countryside after the conference.

It is expected that the conferences will be attended by some 400 participants and more than 500 posters and talks will be presented. We are looking forward to a very interesting and enjoyable week and we hope that the conference will meet your expectations.

David M. BurrIDGE (EMS President)
**Walter Kirchhofer (Chair ECAC
Advisory Board)**

GENERAL INFORMATION

Location and Conference Address

The sixth Annual Meeting of the European Meteorological Society (EMS) is held at the Cankarjev Dom in Ljubljana, Slovenia, from 4–8 September 2006. As part and partner, the sixth European Conference on Applied Climatology (ECAC) is held. The congress is open to the scientists of all nations.

Congress Centre

Cankarjev Dom
Prešernova 10
1000 Ljubljana
Slovenia Tel: +386-1-2417122
Fax: +386-1-2417296
www.cd-cc.si/congress

The entire congress centre is fully accessible for wheel-chairs together with their registration.

Bus

From the main bus or railway station bus No. 9 will take you to our immediate vicinity – the Drama stop, where busses No. 1, 3, 6 and 19 also stop. Not far away there is also bus stop Kongresni trg, where busses No. 2, 10, 11, 13, 17, 20, 21 stop. Bus No. 14 will also bring you near Cankarjev dom – to Prešerenova street.

Parking Places

You can park at a single rate during all of the day. Later you have to collect the car by entering the garage through the junction of Šubiceva and Valvazorjeva street. Your car can remain in the garage until 06:00 next day. After that time the single rate of parking no longer applies.

When visiting Cankarjev Dom, you can also park your vehicle at Trg republike (Republic Square).

Rules of Conduct

- Smoking is prohibited in the entire congress centre except in the areas designated for smokers.
- It is prohibited to copy any presentation from the desktops in the lecture rooms.
- It is prohibited to take photos of any scientific material at the conference.

Official Language

The official language of the 6th EMS/6th 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 6th EMS/6th ECAC. Participants are, therefore, advised to arrange appropriate insurance cover. This should extend not only to travel but also to cancellation costs.

Services (in alphabetical order)

Internet

Internet terminals are located close to the registration & information desk in the First Foyer Hall.

Message Board

A message board is located close to the registration & information desk in the First Foyer Hall.

Money Advice

Slovenia uses the Tolar as it's national currency, although not for much longer as the plan is to switch over to the Euro at the start of 2007. Most shops, pubs, hotels, restaurants, and just about everywhere else already accept the Euro, but it's still a lot easier if paying with Tolars.

- ATMS (Cash Machines)

The sign for a cash machine in Slovenia will read *Bankomat*. Every bank has a *Bankomat*, and there are numerous other buildings around town that also boast one on their wall. Most petrol stations also have one, as do the Post Offices in the centre of town.

All major credit cards are accepted and these machines are fast and safe.

- Credit Cards

You won't have any problem paying by CC in most shops, as this is the preferred method of most Slovenes, but for little things like a coffee, you'll have to pay cash.

- Bureaux de Change (Menjalnica)

The exchange rates don't differ too much from place to place, although the price of commission does. Go to either the Post Office or a travel agency.

Photocopies

A photocopy machine is available at the registration & information desk in the First Foyer Hall.

Pharmacy

Central Pharmacy
Prešernov trg 5
1000 Ljubljana

Post Office

Pošta Slovenije
Slovenska cesta 32
1000 Ljubljana

Public Telephones

Public telephones are located directly in the center. They operate with telephone cards only.

Travel Agent

Kompas Ljubljana
Slovenska cesta 36
1000 Ljubljana
Tel: +386-1-2006-222
Fax: +386-1-2006-230

Tourist Information

Slovenian Tourist Information Centre – STIC
Krekov trg 10
1000 Ljubljana
Tel: +386-1-306-45-75 or 306-45-76
Fax: +386-1-306-45-80

Wardrobes

Wardrobes are located in the First Foyer.

Registration & Information Desk

The registration & information desk is located in the First Foyer Hall.

Opening Hours

Sunday, 3 September 2006
13:00–18:00

Monday–Thursday, 4–7 September 2006
08:00–18:00

Friday, 8 September 2006
08:00–12:00

Programme Committee for the sixth EMS annual meeting

David Burridge (EMS President), ECMWF, UK
Sylvain M. Joffre, FMI, Finland
Martina Junge, EMS
Evangelina Oriol-Pibernat, ESA/ESRIN, Italy
Werner Wehry, EMS
Sergej Zilitinkevich, University of Helsinki, Finland

Programme Committee for the Sixth European Conference on Applied Climatology: Advisory Board (EAB)

Walter Kirchhofer (Chair), Meteo Swiss, Switzerland
Pierre Bessemoulin, Météo France, France
Tanja Cegnar, EARS, Slovenia
Aryan F.V. van Engelen, KNMI, The Netherlands
Raino Heino, FMI, Finland
Martina Junge, EMS

Oral Sessions

Monday, 4 September 2006

Timeblock 1 14:00–16:00
Break 1 16:00–16:30
Timeblock 2 16:30–18:30

Tuesday–Friday, 5–8 September 2006

Timeblock 1 08:30–10:30
Break 1 10:30–11:00
Timeblock 2 11:00–13:00
Lunch 13:00–14:00
Timeblock 3 14:00–16:00
Break 2 16:00–16:30
Timeblock 4 16:30–18:30

Poster Display Times

First Display Time

Monday–Wednesday, 4–6 September 2006, 08:00–20:00

Authors are kindly requested to take down their posters on Wednesday, 6 September 2006, 20:00 at the very latest.

Second Display Time

Thursday–Friday, 7–8 September 2006, 08:00–20:00

Authors are kindly requested to put on their posters on Thursday, 7 September 2006, 08:00 at the very earliest.

Posters are located in the First Foyer Hall. Sticky tape is available at the registration & information desk.

Breaks & Lunch

Coffee Breaks

10:30–11:00 and 16:00–16:30

Free coffee/tea will be served during the Coffee Breaks. The coffee station is close to the poster area in the First Foyer Hall.

Lunch

13:00–14:00

Sandwiches and pastry are available in the bar in Cankarjev Dom. For a warm meal you can go to the Maximarket, where you can find three restaurants in walking distance.

Icebreaker Reception

Grand Reception Hall

Monday, 4 September 2006, 19:00–21:00

Registration & Abstract Management

Copernicus GmbH
Max-Planck-Str. 13
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EXHIBITION

Monday, 4 September 2006, 12:00–18:00

Tuesday–Thursday, 5–7 September 2006, 09:00–18:00

Friday, 8 September 2006, 09:00–12:00

Please, visit the Exhibition in the First Foyer Hall (together with the poster area, internet terminals and coffee station). Here you will find the exhibits of the following companies and societies in alphabetical order:

AMES d.o.o.

Booth P-08

Jamova 39
1000 Ljubljana
Slovenia
Attn. M. Lesjak
Tel: +386-1-365-71-01
Fax: +386-1-365-71-02
info@ames.si

**Association of Hydro-Meteorological
Equipment Industry**

Booth P-06

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

Biral

Booth P-09

P.O. Box 2, Portishead
Bristol, BS20 7JB
UK
Attn. R. McKay
Tel: +44-1275-847-787
Fax: +44-1275-847-303
met@biral.com

COST

Booth P-07

149, Avenue Louise
1050 Brussels
Belgium
Attn. P. Nejedlik
Tel: +32-25-333-800
Fax: +32-25-333-890
pnejedlik@cost.esf.org

Kipp & Zonen B.V.

Booth P-02

P.O. Box 507
2600 AM Delft
The Netherlands
Attn. P. Akkermans and B. Dieterink
Tel: +31-15-269-8003
Fax: +31-15-262-0351
patrick.akkermans@kipzonen.com

Meteolabor AG

Booth P-11

Hofstr. 92
8620 Wetzikon
Switzerland
Attn. R. Maag
Tel: +41-44-934-40-40
Fax: +41-44-934-40-99
rolf.maag@meteolabor.ch

MicroStep-MIS

Booth P-10

Cavojskeho 1
SK-84104 Bratislava
Slovak Republic
Attn. J. Omelka and J. Bartok
Tel: +421-2-602-00-150
Fax: +421-2-602-00-180
mazurek@microstep-mis.com

Modem

Booth P-01

Z.A. de l'orme à bonnet
91750 Chevannes
France
Attn. R. Pepin and P. Charpentier
Tel: +33-1-64-99-77-52
Fax: +33-1-64-99-77-53
rpepin@meteomodem.com

Scintec AG

Booth P-03

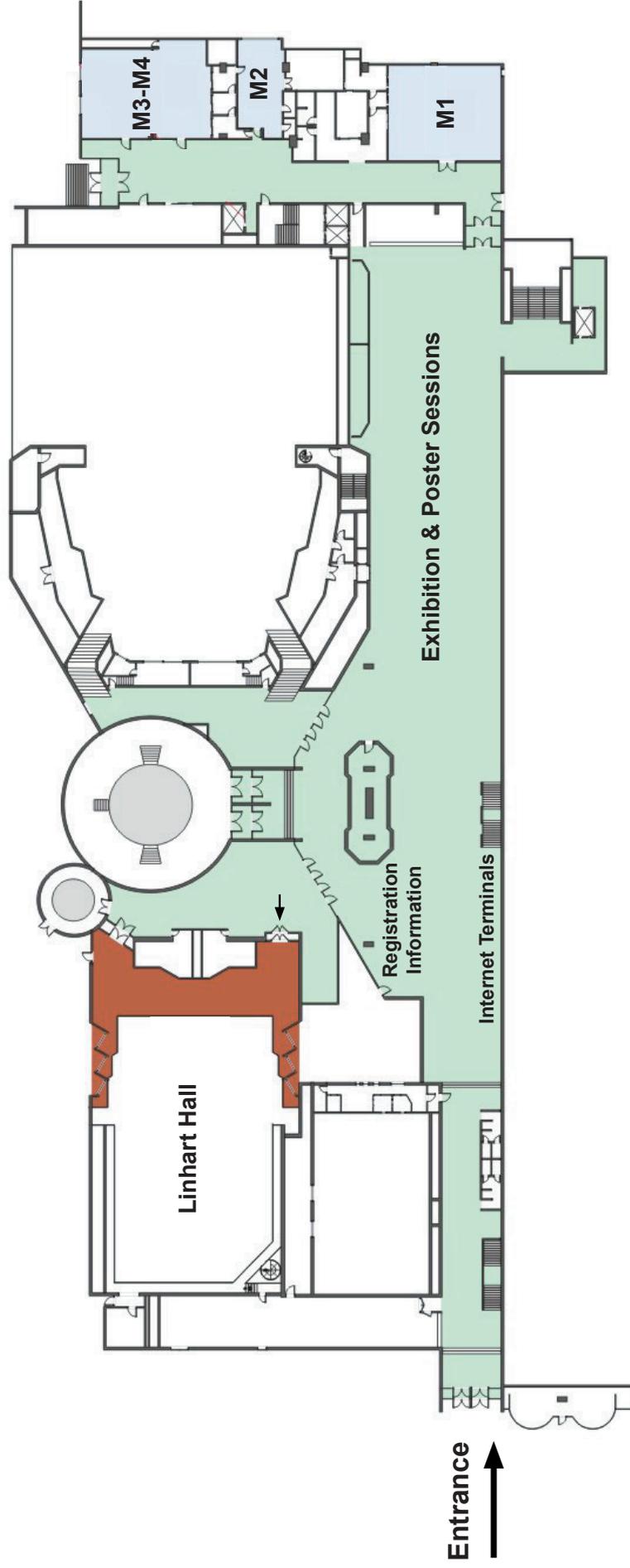
Europaplatz 3
72072 Tübingen
Germany
Attn. B. Schrauf and V. Thiermann
Tel: +49-7071-921410
Fax: +49-7071-551431
info@scintec.com

Vaisala Oyj

Booth P-04/05

P.O.Box 26
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Finland
Attn. T. Kiianlehto
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Fax: +358-9-8949-2593
tiina.kiianlehto@vaisala.com

**6th EMS / 6th ECAC
Cankarjev Dom Ljubljana
First Foyer – First Floor**



**6th EMS / 6th ECAC
Session Overview**

Day	Timeblock	Linhart Hall	M3-M4	M1
Monday	08:30–13:15	Opening Session		-
	14:00–16:00	AC12	AW04.01	IO02
	16:30–18:30	AC09	AW04.01	IO01
Tuesday	08:30–10:30	AC01	AW04.01	IO03
	11:00–13:00	AC01	AW04.02	AW03
	14:00–16:00	AC01	AW01	AW03
	16:30–18:30	AC03	AW01	AW03.01
Wednesday	08:30–10:30	AC02	AW01	IP01
	11:00–13:00	AC02	AW01	-
	14:00–16:00	AC02	IP03	-
	16:30–18:30	AC02	IP03	-
Thursday	08:30–10:30	AC04	AW02	AW05
	11:00–13:00	AC05	AW02	AW05
	14:00–16:00	AC05	IP02	AC10
	16:30–18:30	AC05	IP02	AC10
Friday	08:30–10:30	AC08	AW06	AC10
	11:00–13:00	AC08	AW07	-
	14:00–16:00	AC07	AC11	-
	16:30–18:30	AC06	AC11	-

The Meeting Programme is scheduled daily by Session Group and then by Sessions.

Sixth Annual Meeting of the European Meteorological Society

Sixth European Conference on Applied Climatology (ECAC)

Opening Session

Linhart Hall, Monday, 4 September 2006

8:30 – 9:15 Welcome Addresses and Awards Ceremony

David Burridge, EMS President

Welcome

Walter Kirchhofer, European Climate Support Network (ECSN)

Welcome

Silvo Žlebir, Director General, Environmental Agency of the Republic of Slovenia

Jožef Roškar, Director Meteorological Office, Environmental Agency of the Republic of Slovenia

Pierre Bessemoulin, President of the WMO Commission for Climatology, Météo France

Evangelina Oriol-Pibernat, European Space Agency

Awards Ceremony

Strategic Lectures

9:15 – 10:45

Chairperson: BURRIDGE, D.

Michel Jarraud, Secretary General WMO

Climate information and services: leveraging opportunities and risk management

José Achache, Director GEO Secretariat

GEOSS: from Observations to Science and to Applications

10:15 – 10:45 Coffee Break

10:45 – 13:15

Chairperson: KIRCHHOFER, W.

Dominique Marbouty, Director ECMWF

European developments in Numerical Weather Prediction

Lars Prahm, Director-General of EUMETSAT

Operational Earth Observation

Georgios Amanatidis, European Commission, DG Research

Climate research within the EC Framework Programmes

Robert Sausen, DLR

Quantifying the Climate Impact of Global and European Transport Systems: An overview of the Integrated Project QUANTIFY after 18 months

Albert Klein-Tank, KNMI

ENSEMBLE-based predictions of climate change and their impacts - an overview of the EC FP6 ENSEMBLES project

13:15 Lunch Break

MEETING PROGRAMME

MONDAY

	Linhart Hall	M3-M4	M1	
8:30 – 13:15	OPENING SESSION & AWARDS CEREMONY			
	AC12: International Projects	AW04.01: Env. Meteorology: Atmospheric Pollution-1	IO02: Remote Sensing	
14:00 – 16:00	A-00217: Hrcek, D	A-00233: Builtjes, P	A-00012: Gheiby, A A-00073: Shahabfar, A (cancelled)	
	A-00391: Halenka, T	A-00070: Athanassiadou, M	A-00296: Luque, A	
	A-00428: Wijngaard, JB	A-00085: Saaroni, H	A-00318: Porja, T	
	A-00578: van Engelen, AFV	A-00244: Kerschbaumer, A	A-00064: Vedel, H	
	A-00126: Hanssen-Bauer, I	A-00314: Salvador, R	A-00353: de Haan, S	
	A-00266: Lucarini, V	A-00482: Brechler, J	A-00358: de Haan, S	
	A-00563: Helminen, J	A-00409: Kreienkamp, F	A-00089: Beswick, KM	
	AC09: Remote Sensing in Climatology	AW04.01: Env. Meteorology: Atmospheric Pollution-2	IO1: Measurements and Measurement Networks	
16:30 – 18:30	A-00329: Schulz, J	A-00210: Finardi, S	A-00133: Lesjak, M	
	A-00388: Fetzer, E	A-00495: Mahura, A	A-00028: van Oevelen, PJ	
	A-00341: Duerr, B	A-00559: Halenka, T	A-00001: Ivanov, V	
	A-00154: Moradi, I	A-00567: Hort, M	A-00504: Lussana, C	
	A-00332: Müller, RW	A-00568: Baklanov, A		
	5-minute poster presentations of all poster contributions of session AC09	A-00183: Carnevale, C		
		A-00259: Pagowski, M		
A-00187: Janssen, S				

Abstract numbers are abbreviated. The full abstract numbers that begin with “EMS2006-“ 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.

Opening Session

Lecture Room: Linhart Hall

8:30–9:15 Welcome Addresses and Awards Ceremony

David Burridge, EMS President
Welcome

Walter Kirchhofer, European Climate Support Network (ECSN)
Welcome

Silvo Žlebir, Director General, Environmental Agency of the Republic of Slovenia

Jožef Roškar, Director Meteorological Office, Environmental Agency of the Republic of Slovenia

Pierre Bessemoulin, President of the WMO Commission for Climatology, Météo France

Evangelina Oriol-Pibernat, European Space Agency

Awards Ceremony

Strategic Lectures

9:15–10:45

Chairperson: BURRIDGE, D.

Michel Jarraud, Secretary General WMO
Climate information and services: leveraging opportunities and risk management

José Achache, Director GEO Secretariat
GEOS: from Observations to Science and to Applications

10:15 Coffee Break

10:45–13:15

Chairperson: KIRCHHOFER, W.

Dominique Marbouty, Director ECMWF
European developments in Numerical Weather Prediction

Lars Prahm, Director-General of EUMETSAT
Operational Earth Observation

Georgios Amanatidis, European Commission, DG Research
Climate research within the EC Framework Programmes

Robert Sausen, DLR
Quantifying the Climate Impact of Global and European Transport Systems: An overview of the Integrated Project QUANTIFY after 18 months

Albert Klein-Tank, KNMI
ENSEMBLE-based predictions of climate change and their impacts – an overview of the EC FP6 ENSEMBLES project

13:15 Lunch Break

6th ECAC Programme

AC09 Remote sensing in climatology

Convener: Schulz, J.
Co-Convener(s): Müller, R.
Lecture Room: Linhart Hall
Chairperson: WERSCHECK, M.

16:30–16:45; EMS2006-A-00329

Schulz, J.; CM-SAF TEAM
The Satellite Application Facility on Climate Monitoring: Achievements and future plans

16:45–17:00; EMS2006-A-00388

Fetzer, E.; Read, W.; Vömel, H.
Upper tropospheric water vapor observed by microwave limb and hyperspectral nadir satellite sounders and in situ sensors

17:00–17:15; EMS2006-A-00341

Duerr, B.; Zelenka, A.
Adaptation of CM-SAF target accuracy to orographically induced increase of natural global shortwave irradiance field variability

17:15–17:30; EMS2006-A-00154

Alijani, B.; Mueller, R.; **Moradi, I.**
Comparison of two calibration methods for constructing climate atlases from Meteosat-5 images

17:30–17:45; EMS2006-A-00332

Müller, R. W.; Gratzki, A.; Hollmann, R.
The CM-SAF surface radiation

17:45–17:50; EMS2006-A-00161

Malmusi, S.; Barbati, A.; Boccolari, M.; Fazlagić, S.; Pinelli, F.; Santangelo, R.
Comparison between Precipitable Water Vapor data, obtained from METEOSAT products, and NCEP data

17:50–17:55; EMS2006-A-00162

Pinelli, F.; Barbati, A.; Boccolari, M.; Fazlagić, S.; Malmusi, S.; Santangelo, R.
SAF-CM water vapor products and their relationship to large and intense precipitation over Europe during 2005

17:55–18:00; EMS2006-A-00340

Duerr, B.; Zelenka, A.; Hollmann, R.
Inter-comparison of long-term surface global shortwave measurements with ISCCP FD and GEWEX SRB

18:00–18:05; EMS2006-A-00267

Langer, I.; **Reimer, E.**
Separation of convective and stratiform precipitation for an analysis of the lokal model by using Meteosat data

18:05 END OF SESSION

AC12 International climate projects and programs

Convener: Kirchhofer, W.
 Co-Convener(s): BESSEMOULIN, P.
 Lecture Room: Linhart Hall
 Chairperson: KIRCHHOFER, W.

14:00–14:30; EMS2006-A-00217

de Guzman, R.; **Hrcek, D.**
 The latest developments in WMO Regional Association VI (Europe) and the plan towards the WMO Conference on socio-economic benefits of NMHSs (solicited)

14:30–14:45; EMS2006-A-00391

Halenka, T.
 CECILIA – EC FP6 Project on the Assessment of Climate Change Impacts in Central and Eastern Europe

14:45–15:00; EMS2006-A-00428

Wijngaard, J.B.; Verkaik, J.W.
 ECA&D: The European Climate Assessment and Dataset project

15:00–15:15; EMS2006-A-00578

van Engelen, A.F.V.
 The EU Millennium project – a reconstruction of the climate of Europe for the last thousand years

15:15–15:30; EMS2006-A-00126

Hanssen-Bauer, I.; Orbak, J. B.
 ARCDIV.NET: a multidisciplinary research programme planned for the International Polar Year 2007-2009

15:30–15:45; EMS2006-A-00266

Lucarini, V.; Speranza, A.
 HYDROCARE - Hydrological cycle of the CADSES regions: a spatial development project on the water resource and the hydro-meteorological events

15:45–16:00; EMS2006-A-00563

Helminen, J.
 On-Going Processes as the Outcome of the LWCVC (WMO Conference on Living with Climate Variability and Change: Understanding the uncertainties and managing the risks)

16:00 END OF SESSION

Instrumentation and Methods of Observation

IO01 Measurements and Measurement Networks

Convener: Boettger, H.
 Co-Convener(s): Goldstraw, S.
 Lecture Room: M1
 Chairperson: BOETTGER, H.; GOLDSTRAW, S.

16:30–16:45; EMS2006-A-00133

Mlakar, P.; Boznar, M.Z.; Grasic, B.; **Lesjak, M.**
 Environmental information systems – a modern concept for measurement networks

16:45–17:00; EMS2006-A-00028

van Oevelen, P.J.; Jackson, T.J.
 Towards a Global In-Situ Soil Moisture Network

17:00–17:15; EMS2006-A-00001

Ivanov, V.
 The seasonal and daily variation of meteorological parameters.

17:15–17:30; EMS2006-A-00504

Lussana, C.; Salvati, M. R.; Ranci, M.; Ubaldi, F.
 Vertical and horizontal detrending for the optimal interpolation of temperature observations from a high resolution meteorological network

17:30 END OF SESSION

IO02 Remote Sensing (GPS and satellites; analysis and short range prediction)

Convener: Oriol-Pibernat, E.
 Co-Convener(s): Klaes, D.
 Lecture Room: M1
 Chairperson: ORIOL-PIBERNAT, E.

14:00–14:15; EMS2006-A-00012

Gheiby, A.
 Water vapor profiles from AMSU-B data using an empirical inversion neural networks

14:15–14:30; EMS2006-A-00073

Alireza Shahabfar, Mr.; Azadeh Ramesh, Mrs.
 Application of Remote Sensing And GIS in Snow Hydrology (cancelled)

14:30–14:45; EMS2006-A-00296

Luque, A.; Martín, A.; Guijarro, J. A.; Alonso, S.
 A rainfall analysis of an active frontal perturbation over Catalonia using Meteosat, radar and lightning data.

14:45–15:00; EMS2006-A-00318

Porja, T.; Luque, A.; Fita, L.; Alonso, S.; Mustaqi, V.
 Rainfall analysis of flood cases over Albania, using Meteosat imagery, ground rain measurements and passive microwave rain rate

15:00–15:15; EMS2006-A-00064

Vedel, H.; Sattler, K.; TOUGH team.
 Results from the TOUGH project

15:15–15:30; EMS2006-A-00353

de Haan, S.
 Potential use of GPS water vapour observations

15:30–15:45; EMS2006-A-00358

de Haan, S.; Vedel, H.; Jones, J.
 EUMETNET GPS Water Vapour (EGVAP)

15:45–16:00; EMS2006-A-00089

Beswick, K M.; Gallagher, M W; Webb, A R
 The Aventech AIMMS20AQ: a new low cost airborne probe for turbulence measurements

16:00 END OF SESSION

Atmosphere and the Water Cycle - a Real-Time Look

AW04.01 Environmental Meteorology - Meteorology and Atmospheric Pollution: from the urban to meso/regional scale

Convener: Joffre, S.
 Co-Convener(s): Baklanov, A., Piringer, M.
 Lecture Room: M3-M4
 Chairperson: JOFFRE, S.

14:00–14:30; EMS2006-A-00233

Builtjes, P.
 Air Quality Assessment on Regional, Urban and Local Scale-AIR4EU (solicited)

14:30–14:45; EMS2006-A-00070

Athanassiadou, M.; Hort, M. C.
 Some effects of mesoscale processes on regional transport of pollutants

14:45–15:00; EMS2006-A-00085

Saaroni, H.; Ziv, B.; Uman, T.
The Relationship between the Synoptic and Meso-Scale Conditions and the Nox Pollution in the Metropolitan Area of Tel-Aviv, Israel

15:00–15:15; EMS2006-A-00244

Kerschbaumer, A.; Stern, R.; Schartner, T.; Reimer, E.
Simulation of High PM10-Concentrations and Meteorology

15:15–15:30; EMS2006-A-00314

Salvador, R; Mantilla, E; Castell, N; Stein, A; Hernández, L; Millán, M
Analysis of Meteorological Conditions during Photochemical Episodes over South-West of the Iberian Peninsula

15:30–15:45; EMS2006-A-00482

Benes, L; **Brechler, J**
Particulate matters transport and dispersion modelling in industry and agriculture

15:45–16:00; EMS2006-A-00409

Kreienkamp, F.; Enke, W.
Long range vs. local contributions to PM10 concentrations - a novel discerning method on a statistical basis

16:00 Coffee Break

Chairperson: PIRINGER, M.

16:30–16:45; EMS2006-A-00210

Finardi, S.; Tinarelli, G.; Morselli, M.G.; Brusasca, G.; Gambadoro, A.; Carta, R.
An air quality forecasting system for a large industrial area in eastern Sicily

16:45–17:00; EMS2006-A-00495

Mahura, A; Baklanov, A; Korsholm, U S; Rasmussen, A; Petersen, C
Birch pollen forecasting for Denmark

17:00–17:15; EMS2006-A-00559

Halenka, T.; Brechler, J.; Belda, M.; Cesari, R.
On the analysis of impact of biogenic emission sources on tropospheric ozone production in model SMOG

17:15–17:30; EMS2006-A-00567

Hort, M.
The UK Met Offices' Atmospheric Emergency Response Capability

17:30–17:45; EMS2006-A-00568

Baklanov, A.; Korsholm, U.; Mahura, A.; Petersen, C.; Lindberg, K.; Gross, A.; Rasmussen, A.; Sørensen, J.H.; Amstrup, B.; Chenevez, J.
ENVIRO-HIRLAM Integrated System: strategy and current progress

17:45–18:00; EMS2006-A-00183

Carnevale, C.; Pisoni, E.; Volta, M.
Integrated approach to assess ozone control strategies costs and effects

18:00–18:15; EMS2006-A-00259

Pagowski, M.; Grell, G
The economic value of ensemble-based ozone forecasts

18:15–18:30; EMS2006-A-00187

Janssen, S.; Mensink, C; Dumont, G; Fierens, F
Land use patterns and spatial interpolation of ambient air pollution

18:30 END OF SESSION



Bottom up > A la carte > Flexibility
> Permanent Open Call

*EUROPEAN COOPERATION IN THE FIELD
OF SCIENTIFIC AND TECHNICAL RESEARCH*

**Earth System Science and
Environmental Management**

Domain
with 25 specific COST Actions

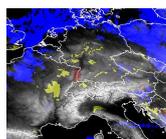
Objects of the research:

- Interactions within and between the major Earth compartments of the atmosphere, hydrosphere, lithosphere and biosphere
- Improved decision support in relation to environmental conditions

Research areas:

- Modelling and observing of Earth systems
- Prediction and mitigation of hydro-meteorological and other hazards
- Science and technology related to the management of natural resources and minimising environmental degradation

Actions participating to EMS 2006



Action 722

Short-range forecasting methods of fog, visibility and low clouds

14 participating COST countries

Cooperating country: Canada

Duration: 2001-2007

<http://137.248.191.94/cost/index.html>



Action 733

Harmonization and Applications of Weather Type Classifications in European regions

19 participating COST countries

Duration: 2005-2010

<http://www.cost733.org>

MEETING PROGRAMME

TUESDAY

	Linhart Hall	M3-M4	M1
	AC1: Climate prediction and climate variability -1	AW04.01: Env. Meteorology: Atmospheric Pollution-3	IO3: Instruments
8:30 – 10:30	A-00145: Uppala, S	A-00316: Hidalgo, J	A-00203: Veenstra, M
	A-00057: Huth, R	A-00193: Piringer, M	A-00317: Prévot, L
	A-00399: Gabriel, A	A-00019: Kuttler, W	A-00192: Pevny, G
	A-00144: Turner, AG	A-00389: Grigoropoulos, G	A-00459: Groselj, D
	A-00072: Ambrizzi, T	A-00505: Bonafe', G	A-00465: Duvernoy, J
	A-00194: Pommier, A	A-00136: Baumann-Stanzer	A-00127: Suter, S
	A-00413: Kreienkamp, F	A-00174: Božnar, MZ	A-00053: Tomažič-Spiller, M
	A-00331: Zampieri, M.	A-00362: de Franceschi, M	A-00119: Komavec, T
	AC01: Climate prediction and climate variability -2	AW04.02: Env. Meteorology: Monitoring and Forecasting	AW3: Severe Weather and Atmospheric Hazards -1
11:00 – 13:00	A-00177: Meißner, C	A-00439: Joffre, S	A-00141: Schneider, S
	A-00580: Baskaran, B	A-00276: Schnadt Poberaj	A-00164: Zaengl, G
	A-00206: Liniger, MA	A-00277: Schnadt Poberaj	A-00189: Svabik, O
	A-00179: Weigel, AP	A-00554: Reimer, E	A-00322: Diomede, T
	A-00403: Kar, SC	A-00280: Huszar, P	A-00006: Miao, Q
	A-00469: Fontaine, B	A-00499: Henne, S	A-00454: Groenemeijer
	A-00030: Ceron, JP	A-00467: Teichmann, CT	A-00327: Barekova, MV
	A-00285: Purdie, JM	A-00583: Joffre, S	A-00305: Michalides, S
	AC01: Climate predictions and climate variability -3	AW01 Boundary Layer -1	AW03: Severe Weather and Atmospheric Hazards -2
14:00 – 16:00	3-minute introduction to all poster contributions of session AC01	A-00029: L'vov, V	A-00392: Peyraud, L
		A-00394: Zilitinkevich, SS	A-00427: Teittinen, J
		A-00481: Calanca, P	A-00243: Antonescu, B
		A-00550: Staquet, C	A-00433: Punkka, A-J
		A-00379: Burlando, M	A-00431: Pucillo, A
		A-00342: Syrakov, E	A-00477: Dotzek, N
		A-00304: Batchvarova, E	A-00483: Ágústsson, H
	AC03: Regional Climate Scenarios	AW01 Boundary Layer -1	AW03.01: Severe Weather – Verification
16:30 – 18:30	A-00180: Lederink, G.	A-00521: Miranda, P	A-00275: Claussnitzer, A
			A-00254: Chessa, PA
	A-00335: Keller, F	A-00538: Mohr, M	A-00371: Grazzini, F
	A-00417: Kreienkamp, F	A-00115: Steenefeld, GJ	A-00137: Mariani, S
	A-00222: Gobiet, A	A-00377: Pagowski, M	A-00512: Thielen, J
	A-00232: Beck, A	A-00555: Soares, PMM	
	A-00488: Rögnvaldson, ÓR	A-00337: Claveri, L	
A-00490: Rögnvaldson, ÓR	A-00172: Martínez, D		

Abstract numbers are abbreviated. The full abstract numbers that begin with “EMS2006-“ 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.

6th ECAC Programme

AC01 Climate prediction and climate variability

Convener: Appenzeller, C.
Co-Convener(s): Ceron, J.
Lecture Room: Linhart Hall
Chairperson: APPENZELLER, C. / CERON, J.

8:30–8:45; EMS2006-A-00145
Uppala, S.; Simmons, A.; Dee, D.; Källberg, P.
Reanalysis and climate variability

8:45–9:00; EMS2006-A-00057
Huth, R.; Pokorna, L.; Bochnicek, J.; Hejda, P.
Variations of atmospheric teleconnections in response to solar activity

9:00–9:15; EMS2006-A-00399
Gabriel, A.; Peters, D.
The influence of zonal ozone variations on the long-term variability of Rossby wave developments and large-scale circulation patterns

9:15–9:30; EMS2006-A-00144
Turner, A. G.; Inness, P. M.; Slingo, J. M.
The effect of doubled CO₂ and model basic state biases on the monsoon-ENSO system: the mean response and effects on variability

9:30–9:45; EMS2006-A-00072
Drumond, A.; **Ambrizzi, T.**
The South American Monsoon System and the Southern Hemisphere SST anomalies

9:45–10:00; EMS2006-A-00194
Pommier, A.
Analyses of Highs and Lows tracks in South and North Atlantic from 1960-2000

10:00–10:15; EMS2006-A-00413
Kreienkamp, F.; Enke, W.; Spekat, A.
WETTREG - One puzzle piece in climate variability studies

10:15–10:30; EMS2006-A-00331
Zampieri, M.; Vautard, R.; Yiou, P.; D'Andrea, F.; de Noblet, N.; Viovy, N.; Cassou, C.; Polcher, J.; Ciais, P.; Kageyama, M.
Progresses in understanding summertime European heat and drought waves

10:30 Coffee Break

Chairperson: CERON, J. / APPENZELLER, C.

11:00–11:15; EMS2006-A-00177
Meißner, C.; Schädler, G.; Haller, M.; Kottmeier, C.
Influence of different large-scale driving data and soil-vegetation model on the results of the CLM regional model

11:15–11:30; EMS2006-A-00580
Bhaskaran, B.
Seasonal to decadal Prediction: An overview of activities in the EU ENSEMBLES Project

11:30–11:45; EMS2006-A-00206
Liniger, M. A.; Mathis, H.; Appenzeller, C.
Realistic greenhouse gas forcing and short term climate forecasts

11:45–12:00; EMS2006-A-00179
Weigel, A.P.; Liniger, M.A.; Appenzeller, C.
Can multi-model combination really enhance the predictive skill of probabilistic ensemble forecasts?

12:00–12:15; EMS2006-A-00403
Kar, S.C.; Bohra, A.K.
Seasonal prediction of the Indian summer monsoon precipitation using global climate models

12:15–12:30; EMS2006-A-00469
Fontaine, B.; Louvet, S.
Detection of intra-seasonal leading signals for the rainfall onset over the Sudanian and Sahelian belts: experimental hindcast

12:30–12:45; EMS2006-A-00030
Leroy, A.; **Céron, J.P.**
Downscaling the seasonal forecasting information: The example of New Caledonia

12:45–13:00; EMS2006-A-00285
Purdie, J.M.; Bardsley, W.E.
Seasonal inflow and rainfall prediction in the Waitaki hydro electricity catchment, New Zealand

13:00 Lunch Break

Chairperson: APPENZELLER, C. / CERON, J.

14:00–14:03; EMS2006-A-00031
Bader, J.C.; Lamagat, J.P.; Piedelièvre, J.P.; **Céron, J.P.**
Optimisation of the Manantali dam water management using a seasonal forecasting information

14:03–14:06; EMS2006-A-00175
Weigel, A.P.; Liniger, M.A.; Appenzeller, C.
The debiased Brier and ranked probability skill scores

14:06–14:09; EMS2006-A-00257
Orsolini, Y.; Kvamsto, N.; Kindem, I.; Ma, S.; Sorteberg, A.
The Aleutian-Icelandic seesaw in ensemble GCM simulations

14:09–14:12; EMS2006-A-00286
Ionita, M.; Busuioc, A.
The skill of the regional climatic model RegCM in simulating the precipitation variability in Romania

14:12–14:15; EMS2006-A-00361
Della-Marta, P.M.
The prediction of western European summer heat waves

14:15–14:18; EMS2006-A-00476
Patarci, M.; Brankovic, C.
Dynamical downscaling with ECMWF experimental seasonal forecasts

14:18–14:21; EMS2006-A-00489
BOUALI, L.; PHILIPPON, N.; FONTAINE, B.
A statistical investigation of Sahelian onset predictability using NCEP/DOE2 reanalysis (1979-2004)

14:21–14:24; EMS2006-A-00507
Hovsepyan, A.; Melkonyan, H.; Grigoryan, V.
Climate Variability and Prediction over the South Caucasus

14:24–14:27; EMS2006-A-00146
Turner, A. G.; Inness, P. M.; Slingo, J. M.
The effect of doubled CO₂ and model basic state biases on the monsoon-ENSO system: the TBO and changing ENSO regimes

14:27–14:30; EMS2006-A-00190

Pommier, A.

Links between Highs and Lows features evolutions at surface level and (Low, medium and High) cloud cover in the North Atlantic Area

14:30–14:33; EMS2006-A-00212

Baldi, M.; Dalu, G.A.

Geopotential oscillations and rainfall cycle in the Mediterranean Region

14:33–14:36; EMS2006-A-00264

Lucarini, V.; Danihlik, R.; Kriegerova, I.; Speranza, A.

Hydrological balance of the Danube river basin: an inter-comparison study

14:36–14:39; EMS2006-A-00297

Lopez-Bustins, J.A.; **Sanchez-Lorenzo, A.**

The Western Mediterranean Oscillation (WeMO) effect on the sunshine duration variability in Iberian Peninsula

14:39–14:42; EMS2006-A-00301

Bruçi, E.; Muçaj, L.; Mustaqi, V.

Climate variability and the trend along with the Drini River in Albania

14:42–14:45; EMS2006-A-00313

Hatzaki, M.; Flocas, H.A.; Maheras, P.; Helmis, C.G.

The role of large scale dynamics on the formation of the Eastern Mediterranean Teleconnection Pattern

14:45–14:48; EMS2006-A-00455

Liberato, M L R; Castanheira, J; DaCamara, C

Extended-range forecasts of near-surface temperature based on stratospheric predictors

14:48–14:51; EMS2006-A-00378

Pommier, A.

Analyses of Highs tracks in North Atlantic, the Azores High and Trade Winds during winter from 1950-2000

14:51–14:54; EMS2006-A-00380

Pommier, A.

Links between Highs and Lows features evolutions at surface level and Western Europe precipitation from 1950 to 1998

14:54–14:57; EMS2006-A-00385

Marques, C.; Rocha, A.; Corte-Real, J.; Castanheira, J.; Ferreira, J.; Melo-Gonçalves, P.; Marta-Almeida, M.

Temporal variability of the global atmospheric energy cycle using ERA 40 reanalyses from ECMWF

14:57–15:00; EMS2006-A-00401

Palus, M.; **Novotna, D.;** Kysely, J.

Shifts of seasons at the European mid-latitudes: Relations to the North Atlantic Oscillation and impacts on the occurrence of extreme temperature events

15:00–15:03; EMS2006-A-00456

Cheval, S.; Dumitrescu, A.; Baci, M.; Breza, T.

Regime shift detection in extreme daily precipitation in Romania

15:03–15:06; EMS2006-A-00494

Rasol, D.

Analyses of correlation between the annual and the monthly mean temperatures in Croatia

15:06–15:09; EMS2006-A-00514

Nikulin, G.; Lott, F.

Tropospheric response to anomalous wave forcings in the stratosphere

15:09 END OF SESSION

AC01 Climate prediction and climate variability – Posters

Convener: Appenzeller, C.

Co-Convener(s): Ceron, J.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Tuesday, 18:30–19:30

Poster Area: First Foyer

Chairperson: N.N.

P0001; EMS2006-A-00031

Bader, J.C.; Lamagat, J.P.; Piedelièvre, J.P.; **Céron, J.P.**

Optimisation of the Manantali dam water management using a seasonal forecasting information

P0002; EMS2006-A-00175

Weigel, A.P.; Liniger, M.A.; Appenzeller, C.

The debiased Brier and ranked probability skill scores

P0003; EMS2006-A-00257

Orsolini, Y.; Kvamsto, N.; Kindem, I.; Ma, S.; Sorteberg, A.

The Aleutian-Icelandic seesaw in ensemble GCM simulations

P0004; EMS2006-A-00286

Ionita, M.; Busuioc, A.

The skill of the regional climatic model RegCM in simulating the precipitation variability in Romania

P0005; EMS2006-A-00361

Della-Marta, P.M.

The prediction of western European summer heat waves

P0006; EMS2006-A-00455

Liberato, M L R; Castanheira, J; DaCamara, C

Extended-range forecasts of near-surface temperature based on stratospheric predictors

P0007; EMS2006-A-00476

Patarcic, M.; Brankovic, C.

Dynamical downscaling with ECMWF experimental seasonal forecasts

P0008; EMS2006-A-00489

BOUALI, L.; PHILIPPON, N; FONTAINE, B

A statistical investigation of Sahelian onset predictability using NCEP/DOE2 reanalysis (1979-2004)

P0009; EMS2006-A-00507

Hovsepian, A.; Melkonyan, H.; Grigoryan, V.

Climate Variability and Prediction over the South Caucasus

P0010; EMS2006-A-00146

Turner, A. G.; Inness, P. M.; Slingo, J. M.

The effect of doubled CO₂ and model basic state biases on the monsoon-ENSO system: the TBO and changing ENSO regimes

P0011; EMS2006-A-00190

Pommier, A.

Links between Highs and Lows features evolutions at surface level and (Low, medium and High) cloud cover in the North Atlantic Area

P0012; EMS2006-A-00212

Baldi, M.; Dalu, G.A.

Geopotential oscillations and rainfall cycle in the Mediterranean Region

P0013; EMS2006-A-00264

Lucarini, V.; Danihlik, R.; Kriegerova, I.; Speranza, A.

Hydrological balance of the Danube river basin: an inter-comparison study

P0014; EMS2006-A-00297

Lopez-Bustins, J.A.; **Sanchez-Lorenzo, A.**

The Western Mediterranean Oscillation (WeMO) effect on the sunshine duration variability in Iberian Peninsula

P0015; EMS2006-A-00301
Bruci, E.; Muçaj, L.; Mustaqi, V.
Climate variability and the trend along with the Drini River in Albania

P0016; EMS2006-A-00313
Hatzaki, M.; Flocas, H.A.; Maheras, P.; Helmis, C.G.
The role of large scale dynamics on the formation of the Eastern Mediterranean Teleconnection Pattern

P0017; EMS2006-A-00378
Pommier, A.
Analyses of Highs tracks in North Atlantic, the Azores High and Trade Winds during winter from 1950-2000

P0018; EMS2006-A-00380
Pommier, A.
Links between Highs and Lows features evolutions at surface level and Western Europe precipitation from 1950 to 1998

P0019; EMS2006-A-00385
Marques, C.; Rocha, A.; Corte-Real, J.; Castanheira, J.; Ferreira, J.; Melo-Gonçalves, P.; Marta-Almeida, M.
Temporal variability of the global atmospheric energy cycle using ERA 40 reanalyses from ECMWF

P0020; EMS2006-A-00401
Palus, M.; **Novotna, D.;** Kysely, J.
Shifts of seasons at the European mid-latitudes: Relations to the North Atlantic Oscillation and impacts on the occurrence of extreme temperature events

P0021; EMS2006-A-00456
Cheval, S.; Dumitrescu, A.; Baci, M.; Breza, T.
Regime shift detection in extreme daily precipitation in Romania

P0022; EMS2006-A-00494
Rasol, D.
Analyses of correlation between the annual and the monthly mean temperatures in Croatia

P0023; EMS2006-A-00514
Nikulin, G.; Lott, F.
Tropospheric response to anomalous wave forcings in the stratosphere

AC02 Climate change detection and climate trends – Posters

Convener: Heino, R.
Co-Convener(s): Jones, P.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Tuesday, 18:30–19:30
Poster Area: First Foyer
Chairperson: HEINO, R.

P0024; EMS2006-A-00470
Zaninovic, K.
Trends in indices of temperature extremes in Croatia, 1901-2004

P0025; EMS2006-A-00471
Gajic-Capka, M.
Trends in indices of precipitation extremes in Croatia, 1901-2004

P0026; EMS2006-A-00402
Mileta, M.
Seasonal trends of number of the days with unusual temperatures in Zagreb

P0027; EMS2006-A-00021
Russak, V.
Changes in solar radiation in Estonia during the last half-century

P0028; EMS2006-A-00573
Toreti, A.; Desiato, F.
Mean and extreme temperature changes over Italy in the last decades

P0029; EMS2006-A-00075
Goldreich, Y.; Chermoni, Z.
The Changes in the Summer Season Length at the Levant Coast

P0030; EMS2006-A-00138
Beranová, R.; Huth, R.
The Links between Circulation Variability Modes and European Temperature and Precipitation: Time Variations and their Causes

P0031; EMS2006-A-00437
Tomé, A.R.; Miranda, P.M.A.
Objective estimation of trend changing points in time series

P0032; EMS2006-A-00510
Nilsson, T.; Gradinarsky, L.; Elgered, G.; Haas, R.
GPS as a complementary tool for investigations of climate trends

P0033; EMS2006-A-00043
Suortti, T.
Homogeneity of Finnish Radiosonde Humidity Records: Effects of Corrected RS80-A for Trends

P0034; EMS2006-A-00002
Ivanov, V.; Bergard, R.
The Moon's influence on the climate

P0035; EMS2006-A-00245
Bulygina, O. N.; Razuvaev, V. N.
Climate extreme events in Russia in recent decades

P0036; EMS2006-A-00261
Kitaev, L.
Tendencies of extreme snow accumulation of Northern Eurasia as the indicator of a modern climate change

P0037; EMS2006-A-00184
Todorovic, N.; Vujovic, D.
Cold winters repetitiveness in Belgrade

P0038; EMS2006-A-00468
Videnov, P.; Tzenkova, A.; Ivancheva, J.; Koleva, E.
Climate variability influence to the evapotranspiration regime in the South Bulgaria

P0039; EMS2006-A-00148
Kasatkina, E.A.; Shumilov, O.I.; Krapiec, M.
Bidecadal cycle and stardust component in climatic variations

P0040; EMS2006-A-00049
Timofeyev, V.E.
Climate dynamics of the Antarctic Peninsula: regional and global aspects

P0041; EMS2006-A-00027
Shirochkov, A.V.; Makarova, L. N.
Peculiarities of Long-Term Trends of Surface Temperature in Antarctica and Their Possible Connections with Outer Belt Electron Precipitation

AC03 Regional climate scenarios

Convener: Klein Tank, A.
Co-Convener(s): van den Hurk, B.
Lecture Room: Linhart Hall
Chairperson: N.N.

16:30–17:00; EMS2006-A-00180

Lenderink, G.; van Ulden, A.
The construction of regional climate scenarios for the Netherlands (solicited)

17:00–17:15; EMS2006-A-00335

Keller, F.; Buishand, A.; Kroon, T.; Lenderink, G.; van den Hurk, B.
Times series transformation to assess climate change impacts in water management

17:15–17:30; EMS2006-A-00417

Kreienkamp, F.; Enke, W.; Spekat, A.
Results of an statistical regional climate scenario for Germany

17:30–17:45; EMS2006-A-00222

Gobiet, A.; Beck, A.; Truhetz, H.
Future scenarios of climate mean and variability over the Alpine Region at high resolution

17:45–18:00; EMS2006-A-00232

Beck, A.; Dorninger, M.; Gobiet, A.; Formayer, H.; Truhetz, H.
Assessing the performance of high resolution climate hindcasts over the Alpine Region

18:00–18:15; EMS2006-A-00488

Rögnvaldsson, ÓR.; Ólafsson, HÓ
Precipitation in Iceland in current and future climate

18:15–18:30; EMS2006-A-00490

Rögnvaldsson, ÓR.; Ólafsson, HÓ
Aspects of wind mapping in current and future climate

18:30 END OF SESSION

AC03 Regional climate scenarios – Posters

Convener: Klein Tank, A.
Co-Convener(s): van den Hurk, B.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Tuesday, 18:30–19:30
Poster Area: First Foyer
Chairperson: N.N.

P0047; EMS2006-A-00158

Frei, C.; Schöll, R.; Fukutome, S.; Schmidli, J.; Vidale, P.L.
Climate Scenarios of Precipitation Extremes in Europe: Similarities and Differences between Regional Climate Models

P0048; EMS2006-A-00356

Tomozeiu, R.; Cacciamani, C.; Pavan, V.; Morgillo, A.; Busuioc, A.
Climate change scenarios for surface temperature in Emilia–Romagna (Italy) obtained using statistical downscaling models

P0049; EMS2006-A-00424

Scheifinger, H; **Boehm, R.;** Widmann, M; Frei, C
Climatological evaluation of the REMO (REgional MOdel) precipitation simulation over the Alps 1971 – 1999

P0050; EMS2006-A-00519

Bartholy, J.; Pongracz, R.; Torma, CS.; Hunyady, A.
Comparing potential models for projecting regional climate change in the Carpathian Basin

AC09 Remote sensing in climatology – Posters

Convener: Schulz, J.
Co-Convener(s): Müller, R.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Tuesday, 18:30–19:30
Poster Area: First Foyer
Chairperson: N.N.

P0051; EMS2006-A-00161

Malmusi, S.; Barbati, A.; Boccolari, M.; Fazlagic, S.; Pinelli, F.; Santangelo, R.
Comparison between Precipitable Water Vapor data, obtained from METEOSAT products, and NCEP data

P0052; EMS2006-A-00162

Pinelli, F.; Barbati, A.; Boccolari, M.; Fazlagic, S.; Malmusi, S.; Santangelo, R.
SAF-CM water vapor products and their relationship to large and intense precipitation over Europe during 2005

P0053; EMS2006-A-00340

Duerr, B.; Zelenka, A.; Hollmann, R.
Inter-comparison of long-term surface global shortwave measurements with ISCCP FD and GEWEX SRB

P0054; EMS2006-A-00267

Langer, I.; **Reimer, E.**
Separation of convective and stratiform precipitation for an analysis of the lokal model by using Meteosat data

AC12 International climate projects and programs – Posters

Convener: Kirchhofer, W.
Co-Convener(s): BESSEMOULIN, P.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Tuesday, 18:30–19:30
Poster Area: First Foyer
Chairperson: KRICHHOFER, W.

P0055; EMS2006-A-00365

Auer, I.; **Böhm, R.;** Schöner, W.
EUMETNET Project ECSN/HRT-GAR: High Resolution Temperature Climatology in Complex terrain – demonstrated in the test area Greater Alpine Region (GAR)

P0056; EMS2006-A-00397

Tveito, O.E.; Huth, R.; James, P.M.; Pasqui, M.; Ustrnul, Z.
Harmonisation of weather types classifications in Europe, COST 733.

Instrumentation and Methods of Observation

IO03 Instruments Session

Convener: Knez, J.
Co-Convener(s): Premec, K.
Lecture Room: M1
Chairperson: PREMEC, K.

8:30–8:45; EMS2006-A-00203

Veenstra, M.
Development of a two component net radiation radiometer

8:45–9:00; EMS2006-A-00317

Prévoit, L.; Bsaibes, A.; Irvine, M.; Lagouarde, J.P.; Voltz, M.
Evaluation of evaporation on a small agricultural watershed: comparison of eddy correlation and scintillometry techniques.

9:00–9:15; EMS2006-A-00192
Pevny, G.; Pindeus, D.
Integrated Quality Management Functions on AWS-Level -
Gealog SG Station Manager

9:15–9:30; EMS2006-A-00459
Groselj, D.; Razpotnik, A
Calibration laboratory service at EARS

9:30–9:45; EMS2006-A-00465
Duvernoy, J.
The in-situ pressure calibration system used by Meteo-
France

9:45–10:00; EMS2006-A-00127
Suter, S.; Konzelmann, Th.; Muehlhaeuser, C.; Begert, M.;
Heimo, A.
SwissMetNet – the new Automated Meteorological Network
of Switzerland: Transition from former to new Network,
Data Management and First Results

10:00–10:15; EMS2006-A-00053
Tomažič Spiller, m.T.S
Information system of measuring networks

10:15–10:30; EMS2006-A-00119
Komavec, T.; Kristan, A.; Miklavčič, J.G.; Spiller, M.T.
Working Events in Information System of Measuring
Network ARSO

10:30 END OF SESSION

Atmosphere and the Water Cycle - a Real-Time Look

AW01 Boundary Layer Physics in Weather and Climate Predictions

Convener: Zilitinkevich, S.
Co-Convener(s): Petrosyan, A.
Lecture Room: M3-M4
Chairperson: N.N.

14:00–14:30; EMS2006-A-00029
L'vov, V.; Rudenko, O
Advanced closure model for stably stratified turbulent bound-
ary layer (solicited)

14:30–14:45; EMS2006-A-00394
Zilitinkevich, S.S.; Elperin, T.; Kleerorin, N.; Ro-
gachevskii, I.; Esau, I.; Mauritsen, T.
On turbulence closure problem for geophysical stably
stratified flows

14:45–15:00; EMS2006-A-00481
Calanca, P.; Schelander, P.; Hoch, S.; Ohmura, A.
Summer- and wintertime characteristics of the atmospheric
boundary layer at the Summit Greenland Observatory

15:00–15:15; EMS2006-A-00550
Chemel, C.; **Staquet, C.;** Tavernier, M.
Internal gravity waves generated by katabatic flows in a
valley

15:15–15:30; EMS2006-A-00379
Burlando, M.; Mazzino, A.; Lopes, A. S.; Ratto, C. F.
Large-eddy simulations for the local log-law-of-the-wall in
neutrally-stratified turbulent boundary-layer flows

15:30–15:45; EMS2006-A-00342
Syrakov, E
On the PBL – turbulent regime effects over atmosphere–
land, sea interaction processes

15:45–16:00; EMS2006-A-00304
Gryning, S.E.; **Batchvarova, E.;** Brümmner, B.
Wind profile above the surface boundary layer

16:00 Coffee Break

Chairperson: N.N.

16:30–17:00; EMS2006-A-00521
Miranda, P.; Soares, P.; Teixeira, J.; Salgado, R
Improving boundary layer convection schemes for high
resolution NWP (solicited)

17:00–17:15; EMS2006-A-00538
Mohr, M.
Parameterisation of roughness effects of scattered forests for
mesoscale modelling of the wind climate

17:15–17:30; EMS2006-A-00115
Steenefeld, G.J.; Holtslag, A.A.M.; Nappo, C.J.; Mahrt, L.
On the Excess Mixing in NWP Models in Stable Boundary
Layers: The Possible Role of Orographic generated Sub-grid
Gravity Wave Drag

17:30–17:45; EMS2006-A-00377
Pagowski, M.; Hacker, J.; Rostkier-Edelstein, D
Behavior of WRF PBL schemes and land-surface models in
1D simulations during BAMEX

17:45–18:00; EMS2006-A-00555
Soares, PMM.; Miranda, PMA.; Teixeira, J
3D evaluation of an improved Eddy-Diffusivity/Mass-Flux
parametrization

18:00–18:15; EMS2006-A-00337
Claveri, L.; Vihma, T.; Savijärvi, H.; Tammelin, B.
Mesoscale variations in the wind and air temperature during
a cold-air outbreak over the Gulf of Finland

18:15–18:30; EMS2006-A-00172
Martínez, D.; Mira, A.; Cuxart, J.
A katabatic flow study in mid-latitudes

18:30 END OF SESSION

AW03 Severe Weather and Atmospheric Hazards

Convener: Stel, F.
Co-Convener(s): Giaiotti, D., Groenemeijer, P., Teittinen, J.
Lecture Room: M1
Chairperson: STEL, F. - GIAIOTTI, D. B.

11:00–11:15; EMS2006-A-00141
Schneider, S.; Dorninger, M.
Heavy rain and flooding in Central Europe in August 2005

11:15–11:30; EMS2006-A-00164
Zaengl, G.
The north-Alpine flooding events of May 1999 and August
2005: Microphysical and multi-scale dynamical aspects of
orographic precipitation enhancement

11:30–11:45; EMS2006-A-00189
Svabik, O.
Analysis of hail pad data, an accompanying investigation for
operational hail defense companies in Austria

11:45–12:00; EMS2006-A-00322
Diomedea, T.; Davolio, S.; Marsigli, C.; Miglietta, M.M.;
Morgillo, A.; Moscatello, A.
A multi-model approach to QPF for hydrological predictions

12:00–12:15; EMS2006-A-00006
 Geerts, B.; **Miao, Q.**
 The initiation of deep convective along radar fine-lines

12:15–12:30; EMS2006-A-00454
Groenemeijer, P.; Corsmeier, U.; Kottmeier, Ch
 The formation of latent instability: a case study from the Convective Storm Initiation Project (CSIP)

12:30–12:45; EMS2006-A-00327
Barekova, MV; Makitov, VS
 Comparative analysis of synoptic and thermodynamic conditions of the formation and development of hail clouds in different regions.

12:45–13:00; EMS2006-A-00305
Michaelides, S.; Orphanou, A.; Savvidou, K.; Papachristodoulou, C.; Constantinides, P.; Nicolaides, K.; Savvides, M.
 A Synoptic, Dynamic and Energetic Study of a Baroclinic Depression that Affected the Area of Cyprus on 6th November 2005

13:00 Lunch Break

Chairperson: TEITTINEN, J. - GROENEMEIJER, P.

14:00–14:15; EMS2006-A-00392
Peyraud, L.; Salamin, C.; Germann, U.
 Analysis of the 18 July 2005 tornadic supercell over the Lake Geneva region

14:15–14:30; EMS2006-A-00427
Teittinen, J.; LaDue, J. G.; Hohti, H.; Brown, R. A.
 Radar characteristics of a tornadic low topped mini-supercell in Finland

14:30–14:45; EMS2006-A-00243
Antonescu, B.; Tanase, A.
 Probabilistic forecast of thunderstorms ‘application to Bucharest area and surroundings

14:45–15:00; EMS2006-A-00433
Punkka, A.-J.; Teittinen, J.
 Severe weather forecasting program in Finland

15:00–15:15; EMS2006-A-00431
 Giovannoni, M.; **Pucillo, A.**
 Towards a physical climatology of tornadoes and waterspouts in Italy

15:15–15:30; EMS2006-A-00477
Dotzek, N.; Friederik, A.; Giaiotti, D. B.; Groenemeijer, P.; Martin, F.; Stel, F.; Svabik, O.; Teittinen, J.
 Status of the European Severe Weather Database (ESWD) after one year of operational work

15:30–15:45; EMS2006-A-00483
Ágústsson, HÁ; Ólafsson, HÓ
 Simulating a severe windstorm in complex terrain

15:45–16:00; EMS2006-A-00004
Roads, J.
 Experimental Monthly to seasonal ensemble fire danger forecasts

16:00 END OF SESSION

AW03.01 Severe Weather and Atmospheric Hazards - Verification
 Convener: Stel, F.
 Co-Convener(s): Nurmi, P., Richardson, D.
 Lecture Room: M1
 Chairperson: NURMI, P. - RICHARDSON, D.

16:30–16:45; EMS2006-A-00275
Claussnitzer, A.; Nevir, P.; Cubasch, U.
 Process-oriented dynamical evaluation of LM precipitation forecasts

16:45–17:00; EMS2006-A-00254
 Marrocu, M.; **Chessa, P. A.**
 Calibration of Multimodel-Multianalysis Limited Area Ensemble

17:00–17:15; EMS2006-A-00371
 Mezzasalma, P.; Tesini, M.S.; **Grazzini, F.**
 Diagnosis and verification of LAMI QPF

17:15–17:30; EMS2006-A-00137
Mariani, S.; Tartaglione, N.; Accadia, C.; Casaioli, M.; Federico, S.
 A twenty-month intercomparison study of three limited area models over the Italian Calabria region using the continuous rain area analysis

17:30–17:45; EMS2006-A-00512
 Thielen, J.; Bartholmes, J.; Ramos, M.H.
 Medium-Range Hydrological Ensemble Prediction and its verification in EFAS

17:45 END OF SESSION

AW04.01 Environmental Meteorology - Meteorology and Atmospheric Pollution: from the urban to meso/regional scale
 Convener: Joffre, S.
 Co-Convener(s): Baklanov, A., Piringer, M.
 Lecture Room: M3-M4
 Chairperson: BAKLANOV, A.

8:30–8:45; EMS2006-A-00316
Hidalgo, J.; Masson, V.; Pigeon, G.; Gimeno, L.
 Comparison of wintertime and summertime Urban Boundary Layer structure over Toulouse city during the CAPITOU experiment

8:45–9:00; EMS2006-A-00193
Piringer, M.; Baumann-Stanzer, K.; Kirtzel, H.-J.
 On the determination of atmospheric stability in an urban area

9:00–9:15; EMS2006-A-00019
 Weber, S.; **Kuttler, W.**
 Variability of particle concentrations in a street canyon due to ambient meteorology

9:15–9:30; EMS2006-A-00389
Grigoropoulos, G.; Ferendinos, F.; Petrakis, P.; Stefanopoulos, S
 Particles matters and Radon daughters monitoring in Athens during an acute pollution episode

9:30–9:45; EMS2006-A-00505
 Giordano, L.; **Bonafé, G.;** Deserti, M.
 Analysis of urban heat island effect with classification trees

9:45–10:00; EMS2006-A-00136

Baumann-Stanzer, K.; Kaiser, A.; Rau, G.; Petz, E.; Hirtl, M.

Europe's highest stack in complex terrain – evaluation of dispersion modelling for the Trbovlje power plant, Slovenia

10:00–10:15; EMS2006-A-00174

Božnar, M.Z.; Mlakar, P.; Grašič, B.; Tinarelli, G.

Thermal power plant Trbovlje air pollution impact modelling in complex terrain

10:15–10:30; EMS2006-A-00362

de Franceschi, M.; Zardi, D.; Antonacci, G.

Investigation of the Meteorological Conditions leading to wintertime Pollution Episodes along a major Alpine Valley

10:30 END OF SESSION

AW04.02 Environmental Meteorology - Global Environmental Monitoring and Forecasting (including GMES related issues)

Convener: Joffre, S.

Co-Convener(s): Bultjes, P., Sokhi, R.

Lecture Room: M3-M4

Chairperson: BUILTJES, P.

11:00–11:15; EMS2006-A-00439

Joffre, S.

Towards a Network of Atmospheric Services in GMES

11:15–11:30; EMS2006-A-00276

Schnadt Poberaj, C.; Staehelin, J.; Brunner, D.; Thouret, V.

Ozone trends (1975-2000) in the northern hemisphere UTLS using measurements from ozone sondes and regular aircraft

11:30–11:45; EMS2006-A-00277

Schnadt Poberaj, C.; Buholzer, D.; Staehelin, J.; Grewe, V.; Ponater, M.; Dameris, M.

Investigating possible causes for observed ozone changes between the late seventies and nineties in the northern hemisphere UTLS using a coupled chemistry-climate model

11:45–12:00; EMS2006-A-00554

Reimer, E.; Kerschbaumer, A.; Schartner, T.

Analysis of Aerosol Transports over East Germany, Poland and Czech Republic by Trajectories and CTM REM/Calgrid in 2002 und 2003

12:00–12:15; EMS2006-A-00280

Huszar, P.; Belda, M.; Halenka, T.

Coupling atmospheric chemistry/aerosols to regional climate model

12:15–12:30; EMS2006-A-00499

Henne, S.; Klausen, J.; Kariuki, J. M.; Buchmann, B.

Long range air pollution transport towards Eastern Africa as observed from Mt. Kenya GAW station

12:30–12:45; EMS2006-A-00467

Teichmann, CT; Jacob, DJ

Climate and Air Pollution Modelling in South America

12:45–13:00; EMS2006-A-00583

Joffre, S.

(I) COST revisited: activities in the field of Earth System Science and Environmental Management

13:00 END OF SESSION

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MEETING PROGRAMME

WEDNESDAY

	Linhart Hall	M3-M4	M1
	AC02: Climate change -1	AW01: Boundary Layer -3	IP01: Bringing meteorology closer to Society
8:30 – 10:30	A-00176: Böhm, R	A-00395: Zilitinkevich, SS A-00492: Antonelli, M	A-00346: Yotova, A A-00040: Auer, I
	A-00198: Rebetez, M	A-00321: Mira, A	
	A-00204: Liniger, MA	A-00447: deBruin, H	A-00211: Baldi, M
	A-00320: Stepanek, P	A-00450: Petrosyan, AS	A-00262: Iaquinto, C
	A-00283: Wibig, J	A-00400: Sivertsen, T	A-00282: Spekat, A
	A-00270: Rodríguez-Puebla, C	A-00051: Sun, J	A-00191: Klueva, M
	A-00500: Karaca, M	A-00131: Heus, T	
	AC02: Climate change -2	AW01: Boundary Layer -4	
11:00 – 13:00	A-00355: Della-Marta, PM	A-00558: Rajkovic, B A-00549: Soares, PMM	
	A-00225: Klok, EJ	A-00339: Syrakov, E	
	A-00229: Maugeri, M	A-00247: Pagowski, M	
	A-00360: Tomozeiu, R	A-00502: OrtizBeviá, MJ	
	A-00292: McElwain, L	A-00020: Liechti, O	
	A-00513: Pongracz, R	A-00579: Trini Castelli, S	
	A-00370: de Lima, MIP		
	AC02: Climate change -3	IP03: Education -1	
14:00 – 16:00	A-00330: Bhend, J	A-00278: Halenka, T	
	A-00118: Førland, EJ	A-00208: Liberato, MLR	
	A-00197: Hänsel, S	A-00436: Nawrath, S	
	A-00058: Huth, R	A-00209: Liberato, MLR	
	A-00111: Frias, MD	A-00124: Stepanenko, S	
	A-00416: Kreienkamp, F	A-00527: Nietosvaara, V	
	A-00372: Bekryaev, RV	A-00506: Sundius, C	
	AC02: Climate change -4	IP03: Education -2	
16:30 – 18:30	A-00054: Horvath, L	A-00343: Bennetts, DA	
	A-00478: Alvarez-Garcia, F	A-00279: Halenka, T	
	A-00487: Ferrari, E	A-00574: Lyne, WH	
	A-00284: Wibig, J		
	A-00300: Sepp, M	A-00582: Schüpbach, E	
	A-00068: Krizan, P		
	A-00202: Beck, C		
	A-00289: Kimura, K		

Abstract numbers are abbreviated. The full abstract numbers that begin with “EMS2006-“ 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.

Mon
 Tue
Wed
 Thu
 Fri

6th ECAC Programme

AC02 Climate change detection and climate trends

Convener: Heino, R.
Co-Convener(s): Jones, P.
Lecture Room: Linhart Hall
Chairperson: HEINO, R.

8:30–9:00; EMS2006-A-00176

Böhm, R.

Trends of climate variability in Central Europe in the past 200 years – derived from early-instrumental monthly time series. (solicited)

9:00–9:15; EMS2006-A-00198

Rebetez, M.; Reinhard, M.

Monthly Air Temperature Trends in Switzerland 1901-2000 and 1975-2004

9:15–9:30; EMS2006-A-00204

Liniger, M. A.; Appenzeller, C.; Scherrer, S. C.

European and Swiss temperature distribution changes in observations

9:30–9:45; EMS2006-A-00320

Stepanek, P.; Lipina, P.; Repka, M.

Trends in daily air temperature and precipitation series since 1848 in the area of Moravia, Czech Republic

9:45–10:00; EMS2006-A-00283

Wibig, J.

Daily precipitation totals variability in Poland (1951-2000)

10:00–10:15; EMS2006-A-00270

Rodríguez-Puebla, C.; Encinas, A.H.; Nieto, S.; Frías, M.D.; García Casado, L.A.

Trend and variability in effective precipitation over the Iberian peninsula

10:15–10:30; EMS2006-A-00500

Karaca, M.; Sen, O.L.; Kindap, T.; Gokturk, O.M.; Bozkurt, D.

Regional Climate Change and Its Impacts for Turkey

10:30 Coffee Break

Chairperson: BOHM, R.

11:00–11:30; EMS2006-A-00355

Della-Marta, P.M.; Haylock, M.R.; Luterbacher, J.; Wanner, H.

The length of western European summer heat waves has doubled since 1880 (solicited)

11:30–11:45; EMS2006-A-00225

Klok, E.J.; Klein Tank, A.M.G.

Changes in precipitation frequency and intensity over Europe

11:45–12:00; EMS2006-A-00229

Brunetti, M.; Felici, M.; **Maugeri, M.;** Nanni, T.; Speranza, A.

Changes in temperature probability distribution function in Italy over the last half century (cancelled)

12:00–12:15; EMS2006-A-00360

Pavan, V.; **Tomozeiu, R.;** Cacciamani, C.; Di Lorenzo, M.
Daily precipitation observations over Emilia-Romagna: mean values and extremes

12:15–12:30; EMS2006-A-00292

McElwain, L

Key Indicators of Climate Change in Ireland

12:30–12:45; EMS2006-A-00513

Pongracz, R.; Bartholy, J.

Statistical trend analysis of extreme temperature and precipitation indices for the Carpathian Basin

12:45–13:00; EMS2006-A-00370

de Lima, M.I.P.; Pereira, S.C.; de Lima, JLMP

Trend analysis of precipitation in the Madeira Archipelago

13:00 Lunch Break

Chairperson: DELLA-MARTA, P.

14:00–14:30; EMS2006-A-00330

Bhend, J.; von Storch, H.

Detection of a human influence on regional precipitation change in Europe (solicited)

14:30–14:45; EMS2006-A-00118

Førland, E.J.; Vikhamar-Schuler, D.; Beldring, S.;

Roald, L.A.; Engen-Skaugen, T.

Projected changes in snow conditions in Norway

14:45–15:00; EMS2006-A-00197

Hänsel, S.; Petzold, S.; Wolf, B.; Matschullat, J.

Changes in Precipitation and Drought Characteristics in Saxony, Germany

15:00–15:15; EMS2006-A-00058

Huth, R.

On the use of multivariate statistical methods in trend analysis: assessment of spatial and intervariable consistency and identification of the most representative station

15:15–15:30; EMS2006-A-00111

Frias, M. D.; Zorita, E.; Fernandez, J.; Rodriguez-Puebla, C.

On the ability of statistical downscaling methods in simulated climates.

15:30–15:45; EMS2006-A-00416

Kreienkamp, F.; Enke, W.; Spekat, A.

Driving factors for the radiation balance. Trends in cloudiness and sunshine under different scenario conditions

15:45–16:00; EMS2006-A-00372

Bekryaev, R.V.

Significance of the Global Air Surface Temperature Trend

16:00 Coffee Break

Chairperson: BHEND, J.

16:30–16:45; EMS2006-A-00054

Horvath, L.; Gaal, M

Spatial analogies in service of climate change analysis

16:45–17:00; EMS2006-A-00478

Alvarez-Garcia, F.; CabosNarvaez, W.; OrtizBevia, M. J.

Modification of ENSO properties in climate change conditions simulated with coupled models

17:00–17:15; EMS2006-A-00487

Ferrari, E.; Sirangelo, B

Cross-validation procedure for statistical trend analysis of monthly rainfalls

17:15–17:30; EMS2006-A-00284

Wibig, J.

Changes in lower troposphere over Europe (1951-2000)

17:30–17:45; EMS2006-A-00300

Sepp, M.; Jaagus, J.

Changes in some characteristics of Arctic cyclones

17:45–18:00; EMS2006-A-00068

Krizan, P.

Trend of ozone content at the layers in the stratosphere and troposphere

18:00–18:15; EMS2006-A-00202

Beck, C.; Grieser, J.

Trends in precipitation and spatiotemporal variations of rainfall regimes in Africa since 1951

18:15–18:30; EMS2006-A-00289

Kimura, K.

Climate change in southern Africa after 1950s

18:30 END OF SESSION

Instrumentation and Methods of Observation

IO01 Measurements and Measurement Networks – Posters

Convener: Boettger, H.

Co-Convener(s): Goldstraw, S.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 16:30–18:30

Poster Area: First Foyer

Chairperson: BOETTGER, H.; GOLDSTRAW, S.

P0057; EMS2006-A-00017

Krajny, E.; Osrodka, L.; Wojtylak, M.

Dependence between concentration of polonium and height of mixing layer in the atmospheric boundary layer

P0058; EMS2006-A-00092

Cop, C.; Lazovic, L.; **Mihajlovic, M.;** Opra, O

The solar-geophysical events and changes of the meteorological parameters

P0059; EMS2006-A-00155

Dubrov, M.N.; Kazantseva, O.S.; Manukin, A.B.; Ponia-tovskaya, V.I.

Simultaneous earth ground strains and underground water level variations

P0060; EMS2006-A-00351

Lobanova, H.

Time-space analysis of air temperature in Russia

P0061; EMS2006-A-00382

Renard, F.; Comby, J.

Evaluation of rainfall spatial interpolation methods: the case of the urban area of Greater Lyon (France)

P0062; EMS2006-A-00522

Gelpi, I.R.; Gaztelumendi, S.; Egaña, J.; Otxoa de Alda, K. Implementing a Data Assimilation System: Preliminary Results

P0063; EMS2006-A-00530

Baltas, E.; Ampas, V.

Estimate of the coefficients of relation between sunshine duration and solar radiation

IO02 Remote Sensing (GPS and satellites; analysis and short range prediction) – Posters

Convener: Oriol-Pibernat, E.

Co-Convener(s): Klaes, D.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 16:30–18:30

Poster Area: First Foyer

Chairperson: N.N.

P0064; EMS2006-A-00520

Kern, A.; **Bartholy, J.;** Gelybo, GY.; Pongracz, R.; Bar-cza, Z.; Ihasz, I.

Comparison of vertically integrated water vapor and ozone for Hungary on the base of different remotely sensed data

P0065; EMS2006-A-00359

Keshin, M.; van der Marel, H.; **de Haan, S.**

Quality Control of GPS-ZTD using time series combination

P0066; EMS2006-A-00303

de Haan, S

Measuring Atmospheric Stability with GPS

IO03 Instruments Session – Posters

Convener: Knez, J.

Co-Convener(s): Premec, K.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 16:30–18:30

Poster Area: First Foyer

Chairperson: KNEZ, J.

P0067; EMS2006-A-00044

Suortti, T.; Miloshevich, L. M.; Paukkunen, A.; Leiterer, U.; Kats, A.; Kivi, R.; Vömel, H.; Yushkov, V.; Ruppert, P.; Neuber, R.; THE LAUTLOS-WAVAP TEAM

The LAUTLOS-WAVAP: Tropospheric comparisons of balloon-borne instruments

P0068; EMS2006-A-00205

Svennas, M.

Radiosounding Data in BUFR Format

P0069; EMS2006-A-00104

Charpentier, P.; Ricaud, G.; **Pépin, R.**

Latest developments of MODEM's upper-air sounding system

P0070; EMS2006-A-00117

Ravnik, L.; Knez, J.; Caserman, M.

Comparative analysis of ultrasonic snow depth sensors

P0071; EMS2006-A-00290

Duvernoy, J.

A simple system for hygrometer calibration

P0072; EMS2006-A-00333

Matamoros, S.; González, J.A.; Calbó, J.

Retrieval of cloud optical depth from ground based measurements of solar radiation in broad and photosynthetic bands

P0073; EMS2006-A-00412

Kreienkamp, F.; Enke, W.; Spekat, A.

A homogeneous measurement network of Ozone or PM10. Design and quality control aspects.

Mon

Tue

Wed

Thu

Fri

Atmosphere and the Water Cycle - a Real-Time Look

AW01 Boundary Layer Physics in Weather and Climate Predictions

Convener: Zilitinkevich, S.
Co-Convener(s): Petrosyan, A.
Lecture Room: M3-M4
Chairperson: N.N.

8:30–8:45; EMS2006-A-00395

Zilitinkevich, S.S.; Mammarella, I.; Baklanov, A.; Joffre, S.M.
The effect of stratification on the roughness length for vegetated and urban surfaces

8:45–9:00; EMS2006-A-00492

Antonelli, M.; Rotunno, R.
Large eddy simulation of the onset of the sea breeze

9:00–9:15; EMS2006-A-00321

Mira, A.; Cuxart, J.; Martínez, D.; Luque, A.
Orographically generated flows over a meso-beta scale basin in the north of Spain: modelling and verification

9:15–9:30; EMS2006-A-00447

Mejniger, W.; Uhlenbrock, J.; Raasch, S.; Beyrich, F.; **deBruin, H.**
Structure parameter of temperature over heterogeneous terrain evaluated from long-path scintillometer, high resolution LES and raw eddy correlation data: the LITFASS-2003 project.

9:30–9:45; EMS2006-A-00450

Karelsky, K.V.; **Petrosyan, A.S.;** Smirnov, A.I.
A new model for transportation of particulate plumes in boundary layer with obstacles

9:45–10:00; EMS2006-A-00400

Sivertsen, T.
Discussing the concept of turbulence of fluid dynamics

10:00–10:15; EMS2006-A-00051

Sun, J.; Zhou, X
A planetary boundary layer model and its application to heavy rain modeling

10:15–10:30; EMS2006-A-00131

Heus, T.; van Dijk, G.J.; Jonker, H.J.J.; Griffith, E.J.; Koutek, M.; Post, F.H.; van den Akker, H.E.A
Cumulus cloud entrainment studied using particle tracing

10:30 Coffee Break

Chairperson: N.N.

11:00–11:15; EMS2006-A-00558

Rajkovic, B.; Djurdjevic, V.; Popov, Z.; Vukovic, A.
A comparison of surface fluxes between atmosphere and ocean using coupled and uncoupled air-sea interaction model

11:15–11:30; EMS2006-A-00549

Soares, PMM.; Catarino, A; Miranda, PMA; Teixeira, J
The parametrization of momentum turbulent transport in the convective boundary layer

11:30–11:45; EMS2006-A-00339

Syrakov, E.; Tsankov, M
On the movements of the baric centers in synoptic scale caused by orographic–thermal–baroclinic PBL effects

11:45–12:00; EMS2006-A-00247

Pagowski, M.; Grell, G
Effects of Surface Moisture, Land-Atmosphere Exchanges, and Turbulent Transport on Precipitation over the Rocky Mountains and High Plains

12:00–12:15; EMS2006-A-00502

OrtizBeviá, M. J.; Alvarez-García, F. J.; CabosNarváez, W.
Estimations of ENSO empirical predictability in IPCC coupled models

12:15–12:30; EMS2006-A-00020

Liechti, O.
Meteorological flight plans for soaring

12:30–12:45; EMS2006-A-00579

Trini Castelli, S.; Reisin, T.G.
High resolution simulation of flow and turbulence in presence of buildings using the RAMS model

12:45 END OF SESSION

AW01 Boundary Layer Physics in Weather and Climate Predictions – Posters

Convener: Zilitinkevich, S.
Co-Convener(s): Petrosyan, A.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Wednesday, 14:00–16:00
Poster Area: First Foyer
Chairperson: N.N.

P0074; EMS2006-A-00013

Jimenez, M.A.; Cuxart, J.
Sensitivity of the stable boundary layer to the humidity contents far from saturation

P0075; EMS2006-A-00071

Serrano, C.; Heitor Reis, A.; Rosa, R.; Lucio, P.S.
Wind induced anomalies on the fair weather atmospheric electric field in Lisbon

P0076; EMS2006-A-00113

Severov, D.; Mechoso, C.; Pshennikov, V.
Relationship between Atmospheric Circulation, SST anomalies and ENSO evens in the Southwestern Atlantic ocean

P0077; EMS2006-A-00120

Cvitan, L.
Local wind speed profiles and the stability parameter m under unstable conditions

P0078; EMS2006-A-00159

Elperin, T.; **Golubev, I.;** Kleeorin, N.; Rogachevskii, I.
Large-scale instabilities and semi-organized structures in turbulent convection

P0079; EMS2006-A-00287

Pagnini, G.; Zampieri, M.
Bigaussian model for the fourth order moments in the convective boundary layer

P0080; EMS2006-A-00288

Zampieri, M.

Progresses in two equations boundary layer modelling

P0081; EMS2006-A-00294

Azorin-Molina, C.; **Sanchez-Lorenzo, A.**; Calbó, J.
Sea breeze effect on cloudiness in the southeast of the Iberian Peninsula (Alicante, Spain)

P0082; EMS2006-A-00323

Martano, P.

Inverse estimation of turbulent fluxes and surface layer parameters from weather station data and surface temperature

P0083; EMS2006-A-00366

Sarr, A. S.

The spatio-temporal rainfall variability in the north of Senegal 1951-2004

P0084; EMS2006-A-00473

Matejka, F.; Hortalova, T.

Effect of vegetation on thermal stratification in atmospheric surface layer

P0085; EMS2006-A-00475

Ágústsson, HÁ.; Ólafsson, HÓ; Árnason, SÁ

Temporal oscillations in orographic windstorms

P0086; EMS2006-A-00479

Ágústsson, HÁ.; Ólafsson, HÓ

Observations and simulation of katabatic flows Observations and simulation of katabatic flows during a heatwave in Iceland

P0087; EMS2006-A-00587

Ferreres, E.; Terradellas, E.; Soler, M.R.

Towards a spectral definition of the atmospheric stability

P0088; EMS2006-A-00050

Savina, O.N.; Bepalov, P.A.; Ryzhov, N.A.

Generalized polarization relationships for acoustic gravity waves in the nonisothermal atmosphere with the wind

AW03 Severe Weather and Atmospheric Hazards – Posters

Convener: Stel, F.

Co-Convener(s): Giaiotti, D., Groenemeijer, P., Teittinen, J.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 16:30–18:30

Poster Area: First Foyer

Chairperson: N.N.

P0090; EMS2006-A-00014

Pérez, R.; Masnó, V; Puchulu, E

Multiple regression model between meteorological data in surface and the convective process in Mendoza (Argentina).

P0091; EMS2006-A-00248

Regano, A.; Moscatello, A.; Miglietta, M.M.; Martano, P.; Morabito, A.; del Vescovo, M.

An application of LAPS-RAMS modelling system to Apulia (south-eastern Italy) region

P0092; EMS2006-A-00249

Pirnach, A.; Shpyg, V; Dudar, S

Numerical simulation of heavy precipitation during floods in Carpathian

P0093; EMS2006-A-00167

Zaengl, G.

A high-resolution model validation for two north-Alpine flood cases

P0094; EMS2006-A-00523

Egaña, J.; Gaztelumendi, S.; Gelpi, I.R.; Otxoa de Alda, K.
Synoptic characteristics of extreme wind events in the Basque Country.

P0095; EMS2006-A-00386

Onorato, L.; Gemelli, P.; Gallino, S.

A supervisionate classification approach of south-westerly wind regime causing severe weather over the Gulf of Genoa

P0096; EMS2006-A-00181

Bartolini, G.; Morabito, M; Torrigiani, T; Petralli, M; Cecchi, L; Orlandini, S

Trends in Tuscany (Italy) summer temperature and indices of extremes (1955-2004)

P0097; EMS2006-A-00311

Crepaz, A.; Robert Luciani, T.; Marigo, G.

Heavy snowfall event on the Venetian Alps - 26/27 January 2006

P0098; EMS2006-A-00250

Shpyg, V.; Pirnach, A

The investigation of synoptic conditions of sandstorm formation and its thermodynamic characteristics

P0099; EMS2006-A-00008

Molinie, G.; Yates, E.; Leblois, E.; Boudevillain, B.; Anquetin, S.; Ducrocq, V.

Application of a generic initiation method to deep convection simulations

AW03.01 Severe Weather and Atmospheric Hazards - Verification – Posters

Convener: Stel, F.

Co-Convener(s): Nurmi, P., Richardson, D.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 16:30–18:30

Poster Area: First Foyer

Chairperson: N.N.

P0103; EMS2006-A-00216

Kapochkin, B.; **Dolia, V.**; Dolia, I.

Example of influence of geodynamic processes on the common circulation of the atmosphere

P0104; EMS2006-A-00383

Ferreira, J.; Rocha, A.; Marques, C.; Melo-Gonçalves, P.; Marta-Almeida, M.

Verification of winter and spring WRF modelling system weather forecast of the Iberian Peninsula

P0105; EMS2006-A-00458

Kalin, L; Vakula, Z

Behavior of common verification scores in the case of forecasts for rear weather events

AW04.01 Environmental Meteorology - Meteorology and Atmospheric Pollution: from the urban to meso/regional scale – Posters

Convener: Joffre, S.

Co-Convener(s): Baklanov, A., Piringer, M.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 14:00–16:00

Poster Area: First Foyer

Chairperson: JOFFRE, S.

P0106; EMS2006-A-00442

Eresmaa, N.; Karppinen, A.; Räsänen, J.; Talvitie, H.

Mixing height determination by ceilometer in cloudy situation

P0107; EMS2006-A-00076

Ramos, A. M.; Freitas, S.; Longo, K.; Conde, F. C.; Corte-Real, J.; Fazenda, A. L.; Recuero, F. S.; Moreira, D.S. Numerical Modelling of the Transport of Atmospheric Pollutant over Portugal and their Relationship with the Meteorological Conditions

P0108; EMS2006-A-00114

Žabkar, R.; Rakovec, J.
A cluster analysis of different trajectory data sets for study of tropospheric ozone concentrations

P0109; EMS2006-A-00129

Boznar, M.Z.; Mlakar, P.; Breznik, B.; Tinarelli, G.
Use of Lagrangean particle model for air pollution dispersion for radioactive risk assessment in complex terrain

P0110; EMS2006-A-00128

Breznik, B.; Mlakar, P.; Boznar, M.Z.
Radiological Emergency Assessment Modul

P0111; EMS2006-A-00173

Mlakar, P.; Božnar, M.Z.; Grašič, B.
Mobile automatic weather and air pollution system (MWS)

P0112; EMS2006-A-00405

Lagzi, I.; Mészáros, R.; Vincze, Cs.; Juhász, Á.; Szinyei, D.; Komjáthy, E.; Antal, K.
Recent developments and application of TREX (TRansport-EXchange) model

P0113; EMS2006-A-00312

Mantilla, E.; Castell, N.; Salvador, R.; Stein, A.; Hernández, I.; Millán, M.
Evaluation of Ozone Impact due to New Industrial Facilities in the Southwestern Iberian Peninsula

P0114; EMS2006-A-00315

Castell, N.; Mantilla, E.; Salvador, R.; Stein, A.; Hernández, L.; Millán, M.
Emission Inventory for a Photochemical Modelling Exercise over the South-west of Spain

P0115; EMS2006-A-00543

Rantamäki, M.; Eresmaa, N.; Karppinen, A.
Utilising dense observation networks in air quality episodes

P0116; EMS2006-A-00214

Steinberga, Dr.
Urban air pollution forming processes in Riga agglomeration

P0117; EMS2006-A-00390

Grigoropoulos, K.; Ferendinos, G.; Petrakis, M.
An experimental partial mapping of PM1 in correlation with Radon daughters in great periphery of Athens.

P0118; EMS2006-A-00005

Skrynyk, O
A possible forming mechanism of large scale spot-like pollution structure of the underlying surface under intense aerosol injections into the atmospheric boundary layer

P0119; EMS2006-A-00195

Piringer, M.; Schauburger, G.; Petz, E.
Separation distances from livestock farms - results from a sensitivity study

P0120; EMS2006-A-00408

Debreczeni, V.; Haszpra, L.; Mészáros, R.; Lagzi, I.
The Background Ozone Concentration Trends in the Surface Layer over Hungary

AW04.02 Environmental Meteorology - Global Environmental Monitoring and Forecasting (including GMES related issues) – Posters

Convener: Joffre, S.

Co-Convener(s): Bultjes, P., Sokhi, R.

Display Time: Monday, 08:00–Wednesday, 20:00

Authors in Attendance: Wednesday, 14:00–16:00

Poster Area: First Foyer

Chairperson: JOFFRE, S.

P0122; EMS2006-A-00414

Kujanpää, J.; Riihisaari, T.; Loyola, D.; Valks, P.; van Oss, R.; Tuinder, O.; **Määttä, A.**
Satellite Application Facility on Ozone and Atmospheric Chemistry Monitoring

P0123; EMS2006-A-00432

Simic, S.; Weihs, P.
Variability of spectral UV irradiance in Austria in the years 1994 - 2005

P0124; EMS2006-A-00434

Simic, S.; Weihs, P.; Kromp-Kolb, H.; Vacek, A.; Laube, W.
Effect of clouds on spectral UV irradiance at the high-mountain observatory Sonnblick (3106 m) in Austria

P0125; EMS2006-A-00099

Baumann-Stanzer, K.; Krüger, B.C.; Hirtl, M.; Langer, M.
Ozone-forecasts for Austria with ALADIN/CAMx

P0126; EMS2006-A-00517

Ramos, A. M.; Freitas, S.; Longo, K.; Conde, F. C.; Corte-Real, J.; Silva, A. M.; Fazenda, A. L.; Recuero, F. S.; Moreira, D. S.
A comparison between biomass burning aerosols modelled with CATT-B-RAMS and measured by AERONET network in the Iberian Peninsula

P0127; EMS2006-A-00440

Cabello, M.; Galiano, V.; García Orza, J.A.
Origin of air masses arriving in SE Spain. Relationship with TOMS AI and PM10 levels

P0128; EMS2006-A-00293

Kotova, L.; Göttel, H.; Lorenz, P.; Podzun, R.; Jacob, D.
Anthropogenic climate changes over Germany in high-resolution simulations

P0129; EMS2006-A-00215

Kapochkin, B.; Kucherenko, N.; Dolia, V.; Dolia, I.
The global changes, influencing factors

Information Provision and Education

IP01 Bringing Meteorology closer to Society

Convener: Yotova, A.

Lecture Room: M1

Chairperson: SPEKAT, A.

8:30–8:45; EMS2006-A-00346

Alexandrov, V.; **Yotova, A.**
Raising public awareness on climate research: necessity and challenge

8:45–9:15; EMS2006-A-00040

Auer, I.; Böhm, R.; Kirchengast, A.; Korus, E.; Pretten-thaler, F.; Proske, H.; Schöner, W.; Vetter, N.; Wostal, T.
ProVision, the new strategy of Austrian Climate Change Research Policy demonstrated by the project “A tale of Two Valleys” (solicited)

9:15–9:30; EMS2006-A-00211
Azzaro, R.; **Baldi, M.**; Rafanelli, C.
Science and society: a new methodology to assess the public understanding of climate

9:30–9:45; EMS2006-A-00191
Kobysheva, N.; **Klueva, M.**
New approach to climate information for projecting of Air Conditioning and Ventilation Systems (CVS)

9:45–10:00; EMS2006-A-00262
Iaquinto, C.; Ronco Villotta, A.; Michieli, M.
"Touching the air": a multi-discipline educational project carried out in the middle school by way of a cheap and simple set of meteorological instruments

10:00–10:15; EMS2006-A-00282
Spekat, A.
Taking it to the streets – do we really need a message?

10:15 END OF SESSION

IP01 Bringing Meteorology closer to Society – Posters

Convener: Yotova, A.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Wednesday, 16:30–18:30
Poster Area: First Foyer
Chairperson: N.N.

P0131; EMS2006-A-00130
Hajkova, L.; Hejkrlik, L.; Richterova, D.
Hazardous atmospheric phenomena in climatology

P0132; EMS2006-A-00387
Gemelli, P.; Onorato, L.; Gallino, S.
An efficient way to provide meteorological informations in extreme conditions

IP03 Education in Atmospheric Sciences

Convener: Halenka, T.
Lecture Room: M3-M4
Chairperson: N.N.

14:00–14:15; EMS2006-A-00278
Halenka, T.; Spekat, A.; Wieringa, J.
Atmospheric science in European school curricula, an

14:15–14:30; EMS2006-A-00208
Liberato, M.L.R.; Gouveia, C.
Promoting Scientific Literacy through Meteorology: concepts and experiments

14:30–14:45; EMS2006-A-00436
Nawrath, S.; Lembecke, F.; Gerstengarbe, F.-W.; Spekat, A.
The Telegrafenberg in Potsdam, a fruitful biotope for school – science outreach

14:45–15:00; EMS2006-A-00209
Liberato, M.L.R.; Alencão, A.; Santos, J.A.; Amraoui, M.; Pereira, M.G.; Oliveira, S.B.; Fernandes, C.; Vilareal, S.
Integrating Earth Sciences Related Topics into Compulsory Education Curricula – an experimental teaching experience

15:00–15:15; EMS2006-A-00124
Stepanenko, S.
Organization of education in meteorology and climatology in Ukraine

15:15–15:30; EMS2006-A-00527
Nietosvaara, V.
NOMEK - training courses for the Nordic meteorologists

15:30–16:00; EMS2006-A-00506
Sundius, C.; Karppanen, J.
Eumetcal- Towards a united European training in meteorology (solicited)

16:00 Coffee Break

Chairperson: N.N.

16:30–16:45; EMS2006-A-00343
Bennetts, D.A.; The Eumetcal College
The Eumetcal College - A Virtual College for Weather Forecasting Training in Europe

16:45–17:00; EMS2006-A-00279
Halenka, T.; Belda, M.
Update of ECTOM – European catalogue of training opportunities in meteorology

17:00–17:30; EMS2006-A-00574
Lyne, W.H.
Recognition of professional qualifications (solicited)

17:30–18:00; EMS2006-A-00582
Schüpbach, E.
Cabo3 (climate and background ozone) (solicited)

18:00 END OF SESSION

IP03 Education in Atmospheric Sciences – Posters

Convener: Halenka, T.
Display Time: Monday, 08:00–Wednesday, 20:00
Authors in Attendance: Wednesday, 16:30–18:30
Poster Area: First Foyer
Chairperson: N.N.

P0133; EMS2006-A-00042
Nussbaumer, A.; **Auer, I.**; Böhm, R.; Kirchengast, A.
A Tale of Two Valleys – Thoughts and Contributions of students of the Stiftgymnasium Melk to the Austrian Climate Change research project

P0134; EMS2006-A-00086
Marc, M.; **Auer, I.**; Böhm, R.
A Tale of Two Valleys – Thoughts and Contributions of students of the BORG Spittal an der Drau to the Austrian Climate Change research project

P0135; EMS2006-A-00251
Graf, P.; Hochhold-Falkner, E.; **Auer, I.**; Böhm, R.; Kirchengast, A.; Veters, N.; Lainer, F.
A Tale of Two Valleys – activities and collection of experiences with surveys and project management by the pupils of the BG/BRG Zell am See within the framework of the Austrian Climate Change research project

P0136; EMS2006-A-00349
Milkovic, J.; Grcic, M.
Education of personnel in meteorology in Croatia

P0137; EMS2006-A-00430
Miranda, P.M.A.; Tomé, A.R.
An interactive atmospheric model for teaching and research



1st FORALPS Conference
www.foralps.net
Ljubljana, 6 September 2006 Cankarjev dom Congress
Center, Club CD, 5th Floor
"Contributions for a wise management of water
resources from meteorology and climatology"

FORALPS will improve and integrate instruments to support the management of environmental resources in alpine areas, in particular water. This goal will be achieved by adopting innovative techniques for monitoring and reconstructing the time evolution of meteorological processes. The competence areas of the partners cover uniformly the central-eastern Alps, where the territories of various countries and regions intertwine, thus requiring a transnational and interregional approach to issues faced by the project.

Agenda

- 10:45** Arrival and registration
11:00 Welcome and introduction (EARS)
Project Lead Partner (UNITN)
Representatives of Local Institutions and Authorities and End-users
11:30 Invited lectures
- A. Stoka: *The Interreg IIIB Alpine Space Programme as a means of Cooperation in wise management of nature, promotion of the environment and prevention of natural disasters*
 - G. Perona and M. Gabella: *Operational weather radar in mountainous terrain: state-of-the-art and new developments*

12:30 Lunch

First Session

Chair: M. Staudinger

- 13:30** **Assessment of climatic trends at regional scale**
- I. Auer, R. Böhm, A. Jurkovic, E. Korus: *Climate Variability in the Eastern Alps represented by climate indices*
 - G. Rossi, G. Franchi, M. Munari, R. Dinale, G. Geier: *The exhausting of the little ice age in the instrumental meteorological records and in the fluctuations of the South Tyrolean glaciers*
- 14:00** **Innovative instruments for rainfall monitoring**
- G. Gregoric, A. Zgonc, M. Demšar: *Radar precipitation estimates with vertical reflectivity profile correction*
 - F. Stockinger: *Monitoring precipitation in the Gail valley/Carinthia/Austria with X-Band radar equipment*
- 14:30** **Weather and water resources availability forecasting**
- M. Tarolli: *Models forecast verification – ECMWF, LAMI and BOLAM*

- S. Mariani, M. Casaioli, I. Gallai, F. Stel, M. Staudinger: *Towards a common reporting system for meteorological forecast verification activities in the Alpine Space: a first step in the FORALPS framework*

- F. Stel, I. Gallai: *High resolution weather simulations of severe events using the ARW-WRF model: the flooding event of 29th August 2003*

15:15 **Poster introduction**

15:30 Coffee break & poster viewing

Second Session

Chair: I. Auer

- 16:30** **Sustainable management of water resources**
- M. Staudinger et al.: *GFE as a tool to optimize meteorological forecast in the case of potential floods*

- A. Bozzo, S. Serafin: *A method for the statistical downscaling of precipitation forecasts, based on the classification of weather circulation patterns*

- 17:00** **Assessment of costs and benefits deriving from improved meteo-hydrological information**

- M. Costa, A. Pasetto, D. Zardi: *An example of assessment of meteorological input for water resource management: Monte Baldo (Verona)*

- I. Soraperra, A. Pasetto, D. Zardi: *Resource demand for snow production: a case study in Fassa Valley (Trento)*

Posters

Assessment of climatic trends at regional scale

- R. Serra, A. Sulis and C. Manenti: *From paper to file: archives in ARPA Lombardia*

- B. Pavcic and M. Dolinar: *Historical data recovery*

- M. Nadbath: *Metadata*

- M. Andrighetti, G. Rampanelli, D. Zardi: *Reconstruction and analysis of the temperature series of Verona (1741–2005)*

- A. Jurkovic, I. Auer, E. Korus: *Digitalization and interpolation of daily snow data in Austria and surrounding regions*

Innovative instruments for rainfall monitoring

- G. Contri, S. Turso, M. Gabella, R. Notarpietro, G. Perona: *X-band radar echoes in mountainous terrain*

- L. Lago, A. M. Rossa, A. Tardelli, M. Calza, G. Formentini, P. Frontero: *Microradar installation on a historically strategic vantage point*

Weather and water resources availability forecasting

- C. Lussana, M. Ranci, M. Salvati, F. Ubaldi, M. Valentini: *3d interpolation of high resolution meteorological observations as a tool for forecast verification*
- A. M. Rossa, M. Calza: *Constructing a thunderstorm climatology for Veneto*
- P. Rainer: *Verification of precipitation forecasts*

Sustainable management of water resources

- R. Dinale and G. Vignoli: *Sustainable water resource management in alpine catchments*

Assessment of costs and benefits deriving from improved meteo-hydrological information

- F. Predicatori, P. Frontero, F. Giacomazzi, A. Tacconi: *Preliminary analysis cost benefit of weather forecast on Lake Garda and Verona province*

Partners

- University of Trento, Department of Civil and Environmental Engineering, Lead Partner
- Italian Agency for Environmental Protection and Technical Services
- Regional Agency for Environmental Protection Lombardia, Regional Meteorological Service

- Regional Agency for Environmental Protection, Veneto
- Environmental Agency of the Republic of Slovenia
- Regional Agency for Environmental Protection Friuli-Venezia Giulia, Regional Meteorological Service
- Autonomous Province of Bolzano, Hydrological Office
- Autonomous Province of Trento, Office for Forecast and Organization
- Valle d'Aosta Autonomous Region, Meteorological Office
- Central Institute for Meteorology and Geodynamics, Regional Office for Tyrol and Vorarlberg, Regional Office for Carinthia, Regional Office for Salzburg and Oberösterreich, Regional Office for Wien, Niederösterreich and Burgenland

Organizing and Technical Committee

Ingeborg Auer (ZAMG, Wien)
Serena Beber (UniTN, Trento)
Tanja Cegnar (EARS, Ljubljana), Chair
Gregor Gregoric (EARS, Ljubljana), Vice Chair
Stefano Micheletti (OSMER, Udine)
Giuseppina Monacelli (APAT, Rome)
Alessio Pasetto (UniTN, Trento)
Michael Staudinger (ZAMG, Salzburg)
Fulvio Stel (OSMER, Udine), Vice Chair
Dino Zardi (UniTN, Trento)



The MicroStep-MIS company - specialist in development, manufacturing and marketing of monitoring and information systems.

Meteorology

IMS Automatic Weather Stations

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- Agrometeorological Measurements
- Traffic Weather Applications
- Environmental and Radiation Monitoring
- Industrial Applications

IMS Manned Weather Stations

- Combined Automatic and Manned Measurement
- Comparison Module for Homogeneity Studies
- Web Architecture
- Nationwide Networks

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- ATIS and VOLMET Voice Reporting
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- Quality Control
- Metadata Management
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MEETING PROGRAMME

THURSDAY

	Linhart Hall	M3-M4	M1
	AC04: Statistics in climatology	AW02: Short range forecasting methods -1	AW05: Agrometeorology -1
8:30 – 10:30	A-00350: Della-Marta, PM	A-00026: Jacobs, W	A-00298: Della-Marta, A
	A-00178: Beaulieu, C	A-00018: Wirth, A	A-00368: de Franceschi, M
	A-00446: Szentimrey, T	A-00237: Cermak, J	A-00230: Rummel, U
	A-00451: Bihari, Z	A-00107: Gultepe, I	A-00528: Mavrommatis, T
	A-00484: Ferrari, E	A-00396: Colomb, M	A-00319: Bsaibes, A
	A-00063: Jourdain, S	A-00069: Bremnes, JB	A-00410: Spekat, A
	A-00393: de Lima, MIP	A-00078: Bergot, T	A-00163: Riparbelli, C
	A-00171: Dubrovsky, M	A-00228: Müller, MD	A-00255: Pankovic, L
	AC05: Synoptic Climatology-1	AW02: Short range forecasting methods -2	AW05. Agrometeorology -2
11:00 – 13:00	A-00381: Burlando, M	A-00079: Roquelaure, S	A-00453: Lalic, B
	A-00157: Kulkarni, A	A-00125: Seidl, H	A-00561: Kazandijev, V
	A-00462: Ustrnul, Z	A-00325: Liechti, O	A-00168: Moteva, M
	A-00419: Kreienkamp, F	A-00221: Cano, D	A-00398: Sivertsen, T
	A-00511: Philipp, A	A-00132: Masbou, M	A-00256: Pankovic, L
	A-00441: James, PM	A-00260: Pagowski, M	
	A-00097: Anagnostopoulou, C	A-00219: Terradellas, E	
	A-00032: Cahynová, M	A-00121: Masbou, M	
	AC05: Synoptic Climatology-2	IP02 Media -1	AC10: Agrometeorology and phenology -1
14:00 – 16:00	A-00581: Ulbrich, U	A-00585: Fleming, G	A-00235: Trnka, M
	A-00272: Alpert, P	A-00407: Barrow, F	A-00088: Dunkel, DZ
	A-00309: Zahn, M	A-00537: Trobec, J	A-00103: Alexandrov, V
	A-00084: Ziv, B	A-00328: Benestad, RE	A-00080: Kurnik, B
	A-00515: Bartholy, J		A-00083: Cloppet, E
	A-00529: Stefan, S	A-00584: Heino, R	A-00302: Etzinger, J
	A-00007: Heifetz, E	A-00423: Spekat, A	
	AC05: Synoptic Climatology-3	IP02: Media -2	AC10: Agrometeorology and phenology -2
16:30 – 18:30	A-00586: Haylock, M	A-00438: Cegnar, T	A-00308: Sušnik, A
	A-00570: Busuioc, A	Workshop on how to communicate weather, climate and climate change science to the general public	A-00011: Chiaudani, A
	A-00541: Wetterhall, F		A-00491: Calanca, P
	A-00281: Bergant, K		A-00560: Slavov, A
	A-00102: Gregoric, G		A-00576: Vardanian, T
	A-00544: Rasilla, D		

Abstract numbers are abbreviated. The full abstract numbers that begin with “EMS2006-“ 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.

6th ECAC Programme

AC04 Statistics in climatology

Convener: Mestre, O.
Co-Convener(s): Szalai, S.
Lecture Room: Linhart Hall
Chairperson: N.N.

8:30–8:45; EMS2006-A-00350

Della-Marta, P.M.; Wanner, H.

A method for homogenising the extremes and mean of daily temperature measurements

8:45–9:00; EMS2006-A-00178

Beaulieu, C.; Ouarda, TBMJ.; Seidou, O.; Boulet, G.; Yagouti, A.

Homogenization of precipitation series: comparison of methods and recommendations

9:00–9:15; EMS2006-A-00446

Szentimrey, T.

Statistical spatiotemporal modelling and methods for different climatological topics

9:15–9:30; EMS2006-A-00451

Bihari, Z.; Szalai, S.; Szentimrey, T.

Improvement of the interpolation of extreme meteorological situations with application of background information

9:30–9:45; EMS2006-A-00484

Sirangelo, B.; Ferrari, E

Non-stationary analysis of POT occurrence for daily rainfalls in Southern Italy

9:45–10:00; EMS2006-A-00063

Jourdain, S.; Dubuisson, B.

Extreme wind speeds in France

10:00–10:15; EMS2006-A-00393

de Lima, M.I.P

Multifractal characterization of precipitation in time

10:15–10:30; EMS2006-A-00171

Dubrovsky, M.; Metelka, L.; Semeradova, D.; Prosova, O.; Trnka, M.

Reproduction of climatic characteristics by interpolated weather generator

10:30 END OF SESSION

AC04 Statistics in climatology – Posters

Convener: Mestre, O.
Co-Convener(s): Szalai, S.
Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
Poster Area: First Foyer
Chairperson: N.N.

P0005; EMS2006-A-00108

Guijarro, J.A.

Climatol: Free software for error detection and homogenization of climatological data

P0006; EMS2006-A-00016

Domonkos, P.

Testing of homogenisation methods: the use of simulated data sets with varied statistical characteristics of inhomogeneities

P0007; EMS2006-A-00188

Gruber, C.; Haimberger, L.

Towards homogenization of radiosonde wind data

P0008; EMS2006-A-00373

Pereira, S.C.; de Lima, M.I.P.; de Lima, JLMP; Coelho, MFES

Testing the homogeneity of point precipitation time series from the Madeira Islands

P0009; EMS2006-A-00376

Begert, M.; Zenklusen, E.; Häberli, C.; Appenzeller, C.; Klok, L.

Testing an automated homogenization procedure for large multivariate datasets

P0010; EMS2006-A-00140

Kysely, J.; **Beranova, R.**

Comparison of the Performance of L-moments with the Maximum Likelihood Method in Estimation of Extreme Value Distributions

P0011; EMS2006-A-00418

Enke, W.; **Kreienkamp, F.;** Spekat, A.

Statistical approaches to describe changes in the extremes under future climate conditions

P0012; EMS2006-A-00448

Lakatos, M.; Szentimrey, T.; Birszki, B.; Kövér, Z.; Bihari, Z.; Szalai, S.

Climate indices calculations on homogenized daily data series

P0013; EMS2006-A-00572

Cindric, K

The statistical analysis of wet and dry spells by binary DARMA (1,1) model in Osijek, Croatia

P0014; EMS2006-A-00474

Pasarić, Z.; Juras, J.

Quantifying the Temporal Persistence of Meteorological Events

P0015; EMS2006-A-00067

Lucio, P. S.; Serrano, A. I.; Silva, A. M.

Meteorological Time Series Reconstruction: The Artificial Neural Network (ANN) Approach

P0016; EMS2006-A-00056

Huth, R.; Sauli, P.

Periodicity of atmospheric teleconnection patterns and its temporal variations as revealed by wavelet analysis

P0017; EMS2006-A-00156

Sabade, S.; Kulkarni, A; Kripalani, R

Indian monsoon rainfall variability in coupled climate model simulations and projections under IPCC AR4

P0018; EMS2006-A-00463

Lingis, P.; Thompson, R.

The Siberian High: its relation with northern hemisphere temperature anomalies and the Arctic Oscillation

P0019; EMS2006-A-00100

Tar, K.

Relation of statistical structure of windy days with the weather situations

P0020; EMS2006-A-00445

Radics, K.; Bartholy, J.

Seasonal and spatial distribution of wind field in Hungary

P0021; EMS2006-A-00170

Dubrovsky, M.; Kysely, J.

Parametric vs. non-parametric weather generators

P0022; EMS2006-A-00306
Halášová, O.; Semerádová, D.; Dubrovský, M.; Metelka, L.
 GIS-based interpolation of weather generator

P0023; EMS2006-A-00556
Percec Tadic, M.
 Errors in predicting spatial temperature distribution by multiple regression and optimal interpolation methods

P0024; EMS2006-A-00015
Jurikovska, L.; Sedenkova, M.
 Probabilistic evaluation of territory situation using historical precipitation data

P0025; EMS2006-A-00143
 Steinacker, R.; Stein, G.; **Schneider, S.**
 A 3D snow depth analysis over complex terrain

P0026; EMS2006-A-00553
Will, A.; Schaettler, U.; Keuler, K.; Block, A.
 Comparison of weather forecast statistics with the models climate statistics using the LM/CLM hybrid model.

P0027; EMS2006-A-00348
De Luca, D.L.; Sirangelo, B.; Versace, P.
 Rainfall forecasting by coupling stochastic models and meteorological information

P0028; EMS2006-A-00357
Lobanov, V.
 General statistical model for analysis of space-time variations in climatology

AC05 Synoptic climatology

Conveners: Benestad, R., Huth, R., Lionello, P.
 Lecture Room: Linhart Hall
 Chairperson: HUTH, R.

11:00–11:15; EMS2006-A-00381
Burlando, M.; Ratto, C. F.
 Classification of wind climate regimes over the Mediterranean

11:15–11:30; EMS2006-A-00157
Kulkarni, A.; Kripalani, R.; Sabade, S.
 Classification of Indian summer monsoon rainfall patterns (cancelled)

11:30–11:45; EMS2006-A-00462
Ustrnul, Z.; James, P.M.; Huth, R.; Pasqui, M.; Tveito, O.E.
 Circulation type classifications in Europe – perspectives from the COST733 Action

11:45–12:00; EMS2006-A-00419
Kreienkamp, F.; Enke, W.; Spekat, A.
 Circulation types versus air mass classifications?

12:00–12:15; EMS2006-A-00511
Philipp, A.; Jacobeit, J.; Rathmann, J.
 Classification of daily pressure pattern sequences since 1850 in Europe

12:15–12:30; EMS2006-A-00441
James, P.M.
 Second-Generation Lamb Weather Types - A new generic classification method with evenly-tempered type frequencies

12:30–12:45; EMS2006-A-00097
Anagnostopoulou, Chr.; Tolika, K.; Maheras, P.; Vafiadis, M.; Machairas, C.
 Classification of circulation types: a new flexible automatic approach applicable to NCEP and GCM data

12:45–13:00; EMS2006-A-00032
Cahynová, M.; Huth, R.
 Changes of atmospheric circulation in Central Europe and their influence on climate trends in the Czech Republic

13:00 Lunch Break

Chairperson: LIONELLO P.

14:00–14:30; EMS2006-A-00581
 Ulbrich, U.
 Assessment of European Cyclones and Windstorms in Simulations of present Day and Future Climates (solicited)

14:30–14:45; EMS2006-A-00272
Alpert, P.; Osetinsky, I.
 Climate and climate changes over the Eastern Mediterranean – a synoptic systems classification approach

14:45–15:00; EMS2006-A-00309
Zahn, M.; Weisse, R.; v.Storch, H.; Feser, F.
 Multidecadal climatological investigations of storms in the Northeast North Atlantic and in the North Sea

15:00–15:15; EMS2006-A-00084
Ziv, B.; Saaroni, H.; Romem, M.; Heifetz, E.; Baharad, A.
 Three-Dimensional Analysis of Mediterranean Cyclones – The Conveyor Belt Paradigm

15:15–15:30; EMS2006-A-00515
Bartholy, J.; Pongracz, R.; Pattantyus-Abraham, M.
 Analyzing the genesis, intensity, and tracks of the Mediterranean cyclones

15:30–15:45; EMS2006-A-00529
STEFAN, S.; Popa, F.
 A cyclone activity trend analysis in Romania

15:45–16:00; EMS2006-A-00007
Heifetz, E.; Methven, J.; Hoskins, B.J.; Bishop, C.H.
 The counter-propagating Rossby wave perspective on baroclinic instability and its relevance to extra-tropical cyclone life cycle

16:00 Coffee Break

Chairperson: BENESTAD, R.

16:30–17:00; EMS2006-A-00586
 Haylock, M.
 STARDEX (solicited)

17:00–17:15; EMS2006-A-00570
 Busuioc, A.; Harsescu, S.; Dumitrescu, Al.
 Statistical downscaling models for seasonal mean extreme temperatures in Romania

17:15–17:30; EMS2006-A-00541
Wetterhall, F.; Bárdossy, A.; Chen, D.; Halldin, S.; Xu, C.-Y.
 Optimum classification of large-scale circulation patterns for statistical downscaling of daily precipitation from GCM output

17:30–17:45; EMS2006-A-00281
Bergant, K.; Kajfež Bogataj, L.
 Extrapolation as a potential cause for inconsistencies in future climate projections with empirical downscaling

17:45–18:00; EMS2006-A-00102
Gregoric, G.; Bertalanic, R.; Cedilnik, J.; Rakovec, J.; Zagar, N.; Zagar, M.
 Slovenian Wind Atlas

18:00–18:15; EMS2006-A-00544

Rasilla, D.; García-Codrón, JC; Pacheco, S.; Carracedo, V.; Diego, C.

Synoptic and mesoscale flows conducive to hot summer events in Cantabria (Northern Spain)

18:15 END OF SESSION

AC05 Synoptic climatology – Posters

Convener(s): Benestad, R., Huth, R., Lionello, P.

Display Time: Thursday, 08:00–Friday, 20:00

Authors in Attendance: Thursday, 18:30–19:30

Poster Area: First Foyer

Chairperson: N.N.

P0029; EMS2006-A-00443

Álvarez, E.; Gimeno, L.; de la Torre, L.; Añel, J.A.; Bayo, S.
Establishment of a ranking of meteorological extreme events in the Iberian Peninsula from objective methods

P0030; EMS2006-A-00551

Lionello, P.; Vicentini, G; Boldrin, U; De Zolt, S
Cyclone activity and precipitation in the Mediterranean region: analysis of regional climate scenario simulations

P0031; EMS2006-A-00273

Osetinsky, I.; Alpert, P

Calendaricities and multimodality in the Eastern Mediterranean cyclonic activity

P0032; EMS2006-A-00444

Noguerol, M.; Gimeno, L; de la Torre, L; Tesouro, M; Nieto, R; Añel, J.A.

Climatology of the areas of baroclinic development in the Northern Hemisphere

P0033; EMS2006-A-00460

Noguerol, M.; Gimeno, L; de la Torre, L; Tesouro, M; Nieto, R; Añel, J.A.

Fluctuations in the areas of baroclinic development in the Northern Hemisphere during the last four decades

P0034; EMS2006-A-00213

Pasqui, M.; Baldi, M.; Dalu, G.A.; Guarnieri, F.; Maracchi, G.

Jet Streak summer variability over the Mediterranean Sea and its relationship with air temperature anomaly.

P0035; EMS2006-A-00134

Bordi, I.; Fraedrich, K.; Lunkeit, F.; Sutera, A.

On the low frequency variability of the general circulation: observations and models

P0036; EMS2006-A-00087

Dayan, U.; Ziv, B.; Shoob, T.; Enzel, Y.

Dust over the Eastern Mediterranean and its relation to Synoptic-scale Circulations

P0037; EMS2006-A-00577

Suselj, K.; Layec, V.; Sood, A.; von Bremen, L.

The analysis of past climate and extreme events over North Sea

P0038; EMS2006-A-00571

Demuzere, M.; Werner, M.; Van Lipzig, N.P.M

Influence of large-scale circulation patterns on mineral dust loads over Central Europe and the Mediterranean Area

P0039; EMS2006-A-00557

Boroneant, C.; Ionita, M.; Popa, F.

Heavy seasonal rainfall for Romania and their associated large scale patterns

P0040; EMS2006-A-00547

Garmendia, C.; **Rasilla, D.;** Bárcena, P.

Atmospheric circulation patterns linked to extreme flooding in the Pas river (Cantabria, N. Iberian Peninsula)

P0041; EMS2006-A-00546

Carracedo, V.; Diego, C.; **García-Codrón, JC;** Rasilla, D

Synoptic circulation patterns associated with large fires in Cantabria (Northern Spain)

P0042; EMS2006-A-00509

Philipp, A.; Rathmann, J.; Jacobeit, J.

Large-scale atmospheric circulation patterns in relation to Central European temperature and precipitation extremes

P0043; EMS2006-A-00345

Adamczyk, R.; Ustrnul, Z.

Relation of the atmospheric circulation to cloudiness over territory of Poland

P0044; EMS2006-A-00295

Calbó, J.; **Sanchez-Lorenzo, A.**

Cloudiness climatology in the Iberian Peninsula from three global gridded datasets (ISCCP, CRU TS2.1, ERA-40)

P0045; EMS2006-A-00429

Kasprzyk-Kuzniak, M.

Variability of the advection arctic air masses over Europe (1951-2004)

P0046; EMS2006-A-00291

Langer, I.; **Reimer, E.;**

Separation of convective and stratiform precipitation for an analysis of the local model by using meteosat data

P0047; EMS2006-A-00265

Jaagus, J.

European precipitation regions and their relationships with atmospheric circulation

P0048; EMS2006-A-00258

Post, P.; Merilain, M.

Atmospheric circulation associated to extreme rainfall events in Estonia 1961-2005

P0049; EMS2006-A-00231

Esteban, P.; Ninyerola, M.; Prohom, M.J.

GIS-based climatology for Andorra related to the main Western European circulation patterns

P0050; EMS2006-A-00186

Cahynova, M.; Huth, R.

Possible inhomogeneities in the Hess&Brezowsky catalogue of atmospheric circulation types

P0051; EMS2006-A-00122

Casado, M.J.; Doblas-Reyes, F.J.; Pastor, M.A.

A circulation classification based on a rotated Principal Components Analysis. Comparison with a subjective classification

P0052; EMS2006-A-00066

Serrano, A. I.; **Lucio, P. S.;** Leite, S. M.; Silva, A. M.

Winter's Precipitation Variability in Portugal: A Case Study Perceived by means the ANN Meteorological Time Series Reconstruction.

P0053; EMS2006-A-00090

S. Harrouni, S.H.; A. Guessoum, A.G

Fractal classification of typical meteorological days from global solar irradiances: Application to two south Algerian sites

P0054; EMS2006-A-00048

Sodoudi, S.; Reimer, E.

Downscaling of climate parameters in catchment area of Bode

P0055; EMS2006-A-00059
Benestad, R.E.; Hanssen-Bauer, I.; Førland, E.J.
 An Evaluation of Statistical Models for Downscaling Precipitation and Their Ability to Capture Long-Term Trends

P0056; EMS2006-A-00142
 Bica, B.; Steinacker, R.; Lotteraner, C.; Suklitsch, M.; **Schneider, S.**
 A new concept for high resolution temperature analysis

P0057; EMS2006-A-00590
Siedlecki, M.
 The diurnal course of the CAPE index values

P0058; EMS2006-A-00591
Siedlecki, M.
 Selected instability indices in Europe

AC06 Weather and climate related extremes and risks – Posters

Convener: Helminen, J.
 Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
 Poster Area: First Foyer
 Chairperson: N.N.

P0060; EMS2006-A-00307
Halásová, O.; Brázdil, R.
 Flash floods in Moravia and Silesia (Czech Republic) during the 19th and 20th centuries

P0061; EMS2006-A-00041
Koppe, C.; Becker, P.
 Climate information decision support tool for heat in Europe

P0062; EMS2006-A-00274
 Horváth, Á.; Ács, F.; **Seres, A. T.**
 A climatological analysis of thunderstorms in the Carpatian Basin using radar data

P0063; EMS2006-A-00420
Kreienkamp, F.; Spekat, A.; Enke, W.
 Trans weather patterns - are there new hazards emerging?

P0064; EMS2006-A-00185
Fragoso, M.
 Torrential rainfall events in Algarve (Portugal): geographic incidence and meteorological causes

P0065; EMS2006-A-00497
Kindap, T.; Gokturk, O. M.; Karaca, M.
 The Black Sea impact on the severe snow episode over the city of Istanbul

P0066; EMS2006-A-00268
Nastos, P.T.; Drakopoulos, P.; Poulos, S.
 The meteorological bomb on 22 April 2004 at Aegean Sea, Greece and its impact on sea level

P0067; EMS2006-A-00236
Bajic, A.
 Extreme Bora Wind on the Adriatic

P0068; EMS2006-A-00496
 Loa, J.; CabosNarvaez, W.; **Alvarez-Garcia, F.**
 Precipitation extremes in the Iberian Peninsula related to NAO and ENSO

P0069; EMS2006-A-00226
Pocakal, D.; Lipovscak, B.
 Analysis of occurrence and maximal parameter values of hail in the continental part of Croatia

P0070; EMS2006-A-00169
Causevic, A
 Increase of precipitation intensities and their affect to the agriculture in Sarajevo

P0071; EMS2006-A-00588
 Fasko, P.; Gaal, L.; M. Lapin, M.; Pecho, J.; Stastny, P.; Mikulova, K.
 The Contribution to the regional Rainfall Distribution for Slovakia

AC07 Climate reconstruction and monitoring – Posters

Convener: van Engelen, A.
 Co-Convener(s): Rösner, S.
 Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
 Poster Area: First Foyer
 Chairperson: N.N.

P0001; EMS2006-A-00200
 Rudolf, B.; **Beck, C.;** Grieser, J.; Schneider, U.
 Motivation, International Framework and Task of the Global Precipitation Climatology Centre (GPCC)

P0002; EMS2006-A-00182
 Auer, I.; **Böhm, R.;** Jurkovic, A.; Orlik, A.; Schöner, W.; Ungersböck, M.
 HISTALP – 250 years of instrumental climate from the alpine realm – status and first results

P0003; EMS2006-A-00201
 Rudolf, B.; **Beck, C.;** Grieser, J.
 Monitoring the Precipitation Deficits with regard to the 2005 Drought in SW Europe

P0004; EMS2006-A-00449
Pirozenoka, L.; Matoshko, N.
 Meteorological data rescue in Latvia

AC08 Information systems in climatology – Posters

Convener: Dolinar, M.
 Co-Convener(s): Dyras, I.
 Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
 Poster Area: First Foyer
 Chairperson: DOLINAR, M.

P0072; EMS2006-A-00061
Bele, D.; Dolinar, M.
 Grided climatological database in WEB GIS application

P0073; EMS2006-A-00101
Gregoric, G.
 Modernization of Slovene Meteorological Database

P0074; EMS2006-A-00336
Cappelen, JC.; Kern-Hansen, CKH; Sarup, KS
 Data availability from DMI, suitable for Climate information and Research

P0075; EMS2006-A-00426
 Gouveia, C.; Menezes, I.; Pedro, I.; Liberato, M L R
 Enhance access to meteorological data in Cape Verde by using the Internet

P0076; EMS2006-A-00033
 Nemeth, A.; **Bihari, Z.**
 DEM based method for determination of potential frost-risk territories

AC10 Agrometeorology and phenology

Convener: Eitzinger, J.
Co-Convener(s): Koch, E., Chmielewski, F.
Lecture Room: M1
Chairperson: ALEXANDROV, A.

14:00–14:30; EMS2006-A-00235

Trnka, M.; Kocmánková, E.; Dubrovský, M.; Žalud, Z.; Semerádová, D.; Muška, F.
Shifts of the climate niches of two key pests under changing climate – two methods of assessment. (solicited)

14:30–14:45; EMS2006-A-00088

Dunkel, DZ; Bella, BSZ
Evaluation of long Soil Moisture Data Series as Tool of Climate Change Detection

14:45–15:00; EMS2006-A-00103

Radeva, S.; Valkov, N.; **Alexandrov, V.**
Climate change impact on sunflower in the Balkan peninsula

15:00–15:15; EMS2006-A-00080

Kurnik, B.
Climate change impacts on irrigation in Slovenia

15:15–15:30; EMS2006-A-00083

Cloppet, E.
Potential impact of climate change on agriculture and forestry in Europe

15:30–15:45; EMS2006-A-00302

Eitzinger, J.; Kubu, G.; Trnka, M.
Comparison of drought indices under climate change scenarios in Austria

15:45 Coffee Break

Chairperson: EITZINGER, J.

16:30–16:45; EMS2006-A-00308

Sušnik, A.; Kajfež - Bogataj, L.
Water deficit and possible climate change impacts in Slovenia

16:45–17:00; EMS2006-A-00011

Chiaudani, A.; Barbi, A.; Delillo, I.; Cacciatori, G.; Tridello, G.; Bonamano, A.; Borin, M.; Cola, G.; Mariani, L.
Analysis of a 49 years long agrometeorological historical data-sets for short term programming and multi-year planning of regional and local irrigation

17:00–17:15; EMS2006-A-00491

Calanca, P.; Torriani, D.; Lips, M.; Fuhrer, J.
Modeling the effects of climate change on crop productivity in the Alpine region

17:15–17:30; EMS2006-A-00560

Slavov, A; Moteva, B.
Vulnerability and Adaptation of the Agricultural Crops to the Climate Changes over the Balkans

17:30–17:45; EMS2006-A-00576

Vardanian, T.; Danielian, A.
The assessment of irrigation risk under the conditions of the global warming of climate

17:45 END OF SESSION

AC10 Agrometeorology and phenology – Posters

Convener: Eitzinger, J.
Co-Convener(s): Koch, E., Chmielewski, F.
Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
Poster Area: First Foyer
Chairperson: N.N.

P0077; EMS2006-A-00023

Anda, A.
Irrigation and its influence for microclimate of maize in Hungary

P0078; EMS2006-A-00039

Kocsis, T.; Anda, A.; Löke, Zs.; Boldizsár, A.
Local impacts of climatic variations on the physiological processes of maize in Hungary

P0079; EMS2006-A-00098

Boldizsar, A.; Varga, B.; Kocsis, T.
Microclimate and transpiration of reedbeds at changing water level on lake Balaton

P0080; EMS2006-A-00110

Vucetic, V.
Impact of climate change on the maize productivity in Croatia

P0080a; EMS2006-A-00218

Mangul, I.; Lozan, A.; Mironova, T.; Mangul, S.
Assessment of agro-climate resources of Moldova

P0081; EMS2006-A-00234

Kapler, P.; **Trnka, M.;** Semerádová, D.; Dubrovský, M.; Žalud, Z.; Svoboda, M.; Eitzinger, J.; Hösch, J.; Možný, M.
Change of Soil Moisture and temperature Regimes under Present and Changed Climatic Conditions

P0082; EMS2006-A-00238

Trnka, M.; Ruget, F.; Hlavinka, P.; Launay, M.; Eitzinger, J.; Zalud, Z.; Steinitzer, E.
Application of crop model STICs in the Central European conditions – evaluation and climate change impact estimates.

P0083; EMS2006-A-00239

Trnka, M.; Dubrovský, M.; Hlavinka, P.; Semerádová, D.; Žalud, Z.
Spring barley production in the climate change hot spot – Czech Republic as a case study.

P0084; EMS2006-A-00240

Hlavinka, P.; **Trnka, M.;** Semerádová, D.; Žalud, Z.; Weihs, P.; Simic, S.; Eitzinger, J.; Dubrovský, M.
Estimating UV-B radiation on empirical base in Central European region

P0085; EMS2006-A-00352

Ács, F.; **Breuer, H.**
Modelling of actual evapotranspiration and soil water content in Hungary

P0086; EMS2006-A-00422

Keppart, L.; Loodla, K.
The potential of Estonian agro-climate and extraordinary weather situations during the last 50 years

P0087; EMS2006-A-00425

Scheifinger, H; **Koch, E.;** Cate, P; Matulla, C
CLIMPHEN – a comprehensive analysis of Austria's plant and insect phenological observations 1951 - 2005

P0088; EMS2006-A-00367
Kamoutsis, A.; Matsoukis, A.; Chronopoulou-Sereli, A.; Pinas, C.
 The role of air temperature on phenophases of apple (*Malus domestica* L. cv. Starking Delicious) in Zagora, Central Greece

P0089; EMS2006-A-00196
 de Cara García, J.A.; **Mestre Barceló, A.**
 The Phenological observation in the Spanish Institute of Meteorology

P0090; EMS2006-A-00096
Momcilovic, V.; Przulj, N.
 Thermal Requirements for Mainstem Leaf Development of Spring Barley during Tillering

P0091; EMS2006-A-00095
Przulj, N.; Momcilovic, V.
 Phenology and Yield of Winter Barley in Semiarid Conditions

P0092; EMS2006-A-00074
Vucetic, M.; Loncar, Z.
 Growing degree days between the phenological phases of forest trees and shrubs in the NW part of Croatia

AC11 Human biometeorology, urban climatology and tourism – Posters

Convener: Cegnar, T.
 Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
 Poster Area: First Foyer
 Chairperson: CEGNAR, T.

P0094; EMS2006-A-00411
Kim, S.H.; Lee, S.J.; Lee, K.G.; Kim, S.Y.; Hong, Y.
 Air Pollution Meteorological Index(APMI) Forecast in Korea

P0095; EMS2006-A-00516
Pongracz, R.; Bartholy, J.; Dezso, ZS.
 Estimating the urban heat island effects of Hungarian and European large cities

P0096; EMS2006-A-00269
 Karagiannis, I.; Dafni, U.; **Nastos, P.T.;** Panagiotakos, D.B.
 Weather profile and respiratory infections with fever in Athens, Greece

P0097; EMS2006-A-00518
Bartholy, J.; Pongracz, R.; Kis, ZS.; Toro, K.; Szlavik, N.; Dunai, GY.; Keller, E.
 Biometeorological aspects of sudden cardiovascular death cases occurred in the Budapest agglomeration area

P0098; EMS2006-A-00150
 Enykeev, A.V.; **Shumilov, O.I.;** Kasatkina, E.A.; Chramov, A.V.
 Some aspects of seasonal variations of children functional state in Arctic

P0099; EMS2006-A-00253
 Hejkrlik, L.; **Novak, M.**
 Progress in biometeorological forecast in the Czech Republic

P0100; EMS2006-A-00552
Rasilla, D.; Fernández, F
 A climatology of Steadman’s apparent temperature over the Iberian Peninsula

P0101; EMS2006-A-00094
Kim, K.R.; Kim, J.; Park, I.-S.; Kim, J.S.; Lee, D.-G.
 Regional characteristics of perceived temperature in South Korea

P0102; EMS2006-A-00534
Seliger, A.; Cegnar, T.
 Pollen calendar for Ljubljana, Slovenia

P0103; EMS2006-A-00046
Kveton, V.; Zak, M.
 New Climate Atlas of the Czech Republic - Temperatures

P0104; EMS2006-A-00457
 Charalampopoulos, I.; **Kamoutsis, A.;** Panagiotou, I.; Chronopoulou - Sereli, A.
 Investigation of bioclimatic performance in specific mountain areas in Greece and evaluation for decision making in tourism development

Atmosphere and the Water Cycle - a Real-Time Look

AW02 Short range forecasting methods of fog, visibility and low clouds

Convener: Jacobs, W.
 Co-Convener(s): Bendix, J., Bott, A., Michaelides, S., Nietosvaara, V.
 Lecture Room: M3-M4
 Chairperson: NIETOSVAARA, V.

8:30–8:45; EMS2006-A-00026
Jacobs, W.; Nietosvaara, V.; Bendix, J.; Bott, A.; Michaelides, S.; Cermak, J
 COST-722: Background, working areas and plans (solicited)

8:45–9:00; EMS2006-A-00018
Wirth, A.; Jann, A.
 A simple method of combining MSG data for low cloud retrieval (solicited)

9:00–9:15; EMS2006-A-00237
Cermak, J.; Kotro, J.; Hyvärinen, O.; Nietosvaara, V.; Bendix, J.
 Satellite-Based Detection of Fog and Very Low Stratus – A High-Latitude Case Study Centred on the Helsinki Testbed Experiment (solicited)

9:15–9:30; EMS2006-A-00107
Gultepe, I.; Cober, S.; Isaac, G.; Hudak, D.; Taylor, P.; Gordon, M.; Rodrigues, P
 The fog remote sensing and modeling (FRAM) field project and preliminary results (solicited)

9:30–9:45; EMS2006-A-00396
Colomb, M.; Gultepe, I
 A comparison of fog visibility parameterizations using microphysical measurements (solicited)

9:45–10:00; EMS2006-A-00069
Bremnes, J.B.; Michaelides, S.C.
 Forecasting visibility with Artificial Neural Networks (solicited)

10:00–10:15; EMS2006-A-00078
Bergot, T
 Quality assessment of the Cobel-Isba Numerical Forecast System of Fog and Low clouds (solicited)

10:15–10:30; EMS2006-A-00228
Müller, M. D.; Schmutz, C.; Parlow, E.
 An ensemble assimilation and forecast system for 1D fog prediction (solicited)

10:30 Coffee Break

Chairperson: JACOBS, W.

11:00–11:15; EMS2006-A-00079

Roquelaure, S; Bergot, T
COBEL-ISBA local ensemble forecast for fog and low clouds (solicited)

11:15–11:30; EMS2006-A-00125

Seidl, H.; Kann, A.
Low stratus (and fog) forecast for Central Europe introducing an empirical enhancement scheme for sub-inversion cloudiness (solicited)

11:30–11:45; EMS2006-A-00325

Liechti, O.
Modeling fog in complex topography with aLMO-tBM (solicited)

11:45–12:00; EMS2006-A-00221

Cano, D; Terradellas, E
Estimation of low-level vertical velocity at Madrid-Barajas airport aimed to improve fog forecast (solicited)

12:00–12:15; EMS2006-A-00132

Masbou, M.; Bott, A.; Müller, M. D.; Nielsen, N. W.; Petersen, C.; Kann, A.; Seidl, H.; Cermak, J.; Petithomme, H.; Adam, W. K.
COST 722: Comparison of European high resolution fog forecast models (solicited)

12:15–12:30; EMS2006-A-00260

Pagowski, M; Gulpepe, I; King, P
Analysis and Modeling of an Extremely Dense Fog Event in Southern Ontario (solicited)

12:30–12:45; EMS2006-A-00219

Terradellas, E; Bergot, T
A comparison between two single-column models designed for short-term fog and low clouds forecasting (solicited)

12:45–13:00; EMS2006-A-00121

Masbou, M.; Müller, M.D.; Cermak, J
Comparison of 3D fog models and satellite fog/very low stratus products (solicited)

13:00 END OF SESSION

AW02 Short range forecasting methods of fog, visibility and low clouds – Posters

Convener: Jacobs, W.
Co-Convener(s): Bendix, J., Bott, A., Michaelides, S., Nietosvaara, V.
Display Time: Thursday, 08:00–Friday, 20:00
Authors in Attendance: Thursday, 18:30–19:30
Poster Area: First Foyer
Chairperson: GLOWACKA, A.

P0105; EMS2006-A-00152

Bakowski, R.; **Glowacka, A.;** Olszewska, E.; Paradowski, M.; Wiazewski, W.
Fog forecast based on statistical correlation of selected meteorological elements (solicited)

P0106; EMS2006-A-00153

Bakowski, R.; **Glowacka, A.;** Olszewska, E.; Paradowski, M.; Wiazewski, W.
Atmosphere stability favorable for fog formation in Poland (solicited)

P0107; EMS2006-A-00123

Masbou, M.; Bott, A.
LM-PAFOG: three-dimensional fog forecasting with the "Lokal Modell" of the German Weather Service (solicited)

P0108; EMS2006-A-00077

Bergot, T; Terradellas, E; Cuxart, J; Mira, A; Liechti, O; Mueller, M; Woetmann Nielsen, N
Intercomparison of single-column numerical models for the prediction of radiation fog (solicited)

P0109; EMS2006-A-00461

Josip, J.; Pasaric, Z.
CLIPER forecasts as a reference for visibility forecasts evaluation (solicited)

P0110; EMS2006-A-00485

Petersen, C; Mahura, A; Sass, B H; Pedersen, N
Road stretch forecasting (solicited)

P0111; EMS2006-A-00220

Terradellas, E; Cano, D
Assessment of the fog and low clouds forecasts produced by the H1D single-column model (solicited)

AW05 Agrometeorology

Convener: Lalic, B.
Co-Convener(s): Sivertsen, T.
Lecture Room: M1
Chairperson: N.N.

8:30–8:45; EMS2006-A-00298

Dalla Marta, A.; Orlandini, S.; Mancini, M.
Variability of air temperature over topographical complex territory at microscale

8:45–9:00; EMS2006-A-00368

Dalla Nora, S.; **de Franceschi, M.;** Zardi, D.
Setup and Test of a Procedure for Prediction of late Frost events over complex Terrain

9:00–9:15; EMS2006-A-00230

Rummel, U.; Richter, S.H.; Weisensee, U.; Beyrich, F.
Long term soil moisture measurements at two ecosystems in north-eastern Germany

9:15–9:30; EMS2006-A-00528

Mavrommatis, T.
Drought index evaluation for assessing agricultural drought

9:30–9:45; EMS2006-A-00319

Bsaibes, A.; Prevot, L.; Voltz, M.; Lagouarde, J.P.; Irvine, M.
Modelling evapotranspiration at the watershed scale using a multi-local approach

9:45–10:00; EMS2006-A-00410

Spekat, A.; Kreienkamp, F.; Enke, W.
A set of indicators for future growth conditions of plant

10:00–10:15; EMS2006-A-00163

Chiaudani, A.; Delillo, I.; Ragazzi, F.; **Riparbelli, C.;** Brenna, S.

Application of an agro-environmental decision support system to evaluate the pesticide leaching in North - Italy

10:15–10:30; EMS2006-A-00255

Pankovic, L.; Pankovic, V.; Lalic, B.
Computing Model for Cereal Leaf

10:30 Coffee Break

Chairperson: N.N.

11:00–11:15; EMS2006-A-00453

Lalic, B.; Pankovic, L.; Mihailovic, D.T.
Calibration of SIRIUS Model for Different NS-sorts of Small Grains

11:15–11:30; EMS2006-A-00561

Kazandjiev, V.; Moteva, M.; Georgieva, V.
Verification of WOFOST model for maize (grain) under the soil and meteorological conditions of Bulgaria

11:30–11:45; EMS2006-A-00168

Valentin Kazandjiev, A.; **Milena Moteva, B.;** Veska Georgieva, C.
Verification of WOFOST model for maize (grain) under the soil and meteorological conditions of Bulgaria

11:45–12:00; EMS2006-A-00398

Sivertsen, T.
Reflections on the scope of the scientific principle and the idea of sustainable agriculture

12:00–12:15; EMS2006-A-00256

Pankovic, L.; Malesevic, M.
Seed Production Under the Variety-specific Fertilization in Wheat Production

12:15 END OF SESSION

AW05 Agrometeorology – Posters

Convener: Lalic, B.

Co-Convener(s): Sivertsen, T.

Display Time: Thursday, 08:00–Friday, 20:00

Authors in Attendance: Thursday, 18:30–19:30

Poster Area: First Foyer

Chairperson: N.N.

P0112; EMS2006-A-00022

Baltas, E.; Ampas, V; Papamichail, D
Comparison of different methods for the estimation of the reference crop evapotranspiration in the Florina region

P0113; EMS2006-A-00034

Rajic, M.; Rajic, M.; Rokvic, V.
A comparison of methods for estimating potential evapotranspiration in South Backa region

P0114; EMS2006-A-00038

Rajic, M.
Climatic changes and tendency of drought in South Backa region

P0115; EMS2006-A-00147

Rubio, M. A.; Riano, D; Cheng, Y; Ustin, S.L.
Estimation of canopy water content from MODIS using artificial neural networks trained with radiative transfer models

P0116; EMS2006-A-00166

Causevic, A
Increase of precipitation intensities and their affect to the agriculture in Sarajevo

P0117; EMS2006-A-00310

Dragovic, S.; Maksimovic, L.; Radojevic, V.; Cicmil, M.
Effects of Irrigation on Crop Production in Different Agrometeorological Conditions in Serbia and Montenegro

P0118; EMS2006-A-00535

Vavera, R.; Růžek, P.; Kusá, H.
The effect of year and different agriculturals measures on the yield and quality of winter wheat grain

P0119; EMS2006-A-00542

Haberle, J.; **Vavera, R.**
Simulation of flowering and maturity time of winter wheat in years 1961-2000 in the Czech Republic

AW06 Hydrometeorology – Posters

Convener: Brilly, M.

Co-Convener(s): Mikos, M., Haase, G., Gjertsen, U.

Display Time: Thursday, 08:00–Friday, 20:00

Authors in Attendance: Thursday, 18:30–19:30

Poster Area: First Foyer

Chairperson: N.N.

P0120; EMS2006-A-00532

Voudouris, K.; **Mavrommatis, T.;** Antonakos, A.
Hydrologic Balance and Water Resources Development in Prefecture of Korinthos (Greece)

P0121; EMS2006-A-00055

Frantar, P.; Dolinar, M.; Kurnik, B.
Water balance of Slovenia (1971 - 2000)

P0122; EMS2006-A-00375

Brilly, M.; Šraj, M; Padežnik, M; Petan, S; Verhovšek, J; Gregoriè, G.; Kobold, M; Dolinar, M
Determination of extremely high values of precipitation after the storm of 20–21 August 2005 in the Sava River valley

P0123; EMS2006-A-00060

Dolinar, M.; Ovsenik-Jegliè, T.; Bertalaniè, R.
Correction of the Daily Precipitation Measurements

P0124; EMS2006-A-00472

Drvar, D.; Kalin, L.; Poredoš, A.
Integrated semi-quantitative precipitation analysis

P0125; EMS2006-A-00466

Palamarchuk, L.; Pirnach, A; Shpyg, V
Numerical study predictability of further development of frontal clouds by their rotational motion

Information Provision and Education

IP02 Media

Convener: Cegnar, T.

Co-Convener(s): Fleming, G.

Lecture Room: M3-M4

Chairperson: FLEMING, G.

14:00–14:30; EMS2006-A-00585

Fleming, G.
Activities within the Open Programme Area Group on Public Weather Services (solicited)

14:30–14:45; EMS2006-A-00407

Barrow, F
The role of training in broadcast meteorology (solicited)

14:45–15:00; EMS2006-A-00537

Trobec, J.
Advances in live broadcast coverage of severe weather (solicited)

15:00–15:30; EMS2006-A-00328

Benestad, R.E.
RealClimate.org - an attempt to provide the public with state-of-the-art knowledge (solicited)

15:30–15:45; EMS2006-A-00584

Heino, R.

Climate and media (solicited)

15:45–16:00; EMS2006-A-00423

Spekat, A.; Kreienkamp, F.; Enke, W.

A choir of single voices. Dealing with the media from a climate researcher's perspective

16:00 Coffee Break

Chairperson: CEGNAR, T.

16:30–18:30; EMS2006-A-00438

Cegnar, T.

Workshop on how to communicate weather, climate and climate change science to general public

18:30 END OF SESSION

Seventh EMS Annual Meeting and Eighth European Conference on Applied Meteorology



MADRID

El Escorial, Spain

1 – 5 October 2007



Themes foreseen: Applications of Meteorology Atmosphere and the Water cycle: a real time look – Computing in Atmospheric Sciences – WMO World Weather Research Programme: THORPEX – Instruments and Methods of observations – Climatology – Information Provision and Education

MEETING PROGRAMME

FRIDAY

	Linhart Hall	M3-M4	M1
	AC08: Information systems-1	AW06: Hydrometeorology	AC10: Agrometeorology and phenology -3
8:30 – 10:30	A-00575: van der Wel, FJM	A-00384: Kobold, M A-00347: Diomede, T	A-00091: Chmielewski, F-M
	A-00003: Kurnik, B	A-00324: Verseggy, D	A-00010: Sivle, A
	A-00369: Iden, I	A-00106: Mengelkamp, H-T	A-00364: Žust, A
	A-00524: Bisolli, P	A-00480: Wetterhall, F	A-00486: Bonamano, A
	A-00421: Kreienkamp, F	A-00116: Varga, B	A-00545: Aasa, A
	A-00404: Agersten, S	A-00533: Ogrin, M	
	A-00109: Guijarro, JA	A-00338: Matthews, D	
	AC08: Information systems-2	AW07: Meteor. Applications	
11:00 – 13:00	A-00199: Hofstra, N	A-00246: Molendijk, M	
	A-00207: Kastelec, D	A-00525: Gaztelumendi, S	
	A-00065: Lucio, PS	A-00526: Gaztelumendi, S	
	A-00531: Dyras, I		
	Introduction to posters of session AC08		
	AC07: Climate reconstruction	AC11: Human biometeorology -1	
14:00 – 16:00	A-00415: Monna, W	A-00498: Karaca, M	
	A-00363: Dobrovolný, P		
	A-00374: Tomozeiu, R	A-00344: Hygen, HO	
	A-00149: Shumilov, OI	A-00105: Moraliiski, E	
	A-00354: Brázdil, R	A-00135: Dimitrov, Cv	
	A-00227: Raicich, F	A-00493: Tzenkova-Bratoeva	
	A-00565: Hickey, KR	A-00093: Kim, J	
	A-00508: Jilderda, R		
	AC06: Weather and climate related extremes	AC11: Human biometeorology -2	
16:30 – 18:30	A-00160: Frei, C	A-00326: Ahas, R	
	A-00464: Mudelsee, M	A-00562: Cegnar, T	
	A-00334: Veal, AT		
	A-00501: Wetterhall, F	A-00047: Zak, M	
	A-00271: Vajda, A	A-00536: Zaninović, K	
	A-00062: Benestad, RE	A-00435: Joksic, AŠ	
	A-00566: Ogrin, D		

Abstract numbers are abbreviated. The full abstract numbers that begin with “EMS2006-“ 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.

Mon
 Tue
 Wed
 Thu
Fri

6th ECAC Programme

AC06 Weather and climate related extremes and risks

Convener: Helminen, J.
Lecture Room: Linhart Hall
Chairperson: FREI.C / APPENZELLER.C

16:30–16:45; EMS2006-A-00160
Frei, C.; Appenzeller, C.; Bader, S.; Germann, U.; Hächler, P.; Rotach, M.; Schubiger, F.; Walser, A.; Zbinden, P.
The August 2005 Flood in the Northern Alps

16:45–17:00; EMS2006-A-00464
Mudelsee, M.; Tetzlaff, G.
Extreme floods and precipitation events in Germany: A long-term perspective

17:00–17:15; EMS2006-A-00334
Veal, A.T.; Perry, M.C.
Route based applications of gridded long term averages using GIS techniques

17:15–17:30; EMS2006-A-00501
Wetterhall, F.; Seibert, J.
Rainfall-runoff modelling of extreme events coupled to statistically downscaled precipitation from GCM scenario runs for two Swedish catchments

17:30–17:45; EMS2006-A-00271
Vajda, A.; Venäläinen, A.
Evaluation of the Finnish and the Canadian forest fire danger forecasting system in the boreal forests environment (Finland)

17:45–18:00; EMS2006-A-00062
Benestad, R.E.
A possible explanation for the lack of trend in the hurricane frequency?

18:00–18:15; EMS2006-A-00566
Ogrin, D.; Sinjur, I.; Ogrin, M.
Extreme Temperature Minimums in Slovenian Alpine dolines

18:15 END OF SESSION

AC07 Climate reconstruction and monitoring

Convener: van Engelen, A.
Co-Convener(s): Rösner, S.
Lecture Room: Linhart Hall
Chairperson: N.N.

14:00–14:15; EMS2006-A-00415
Monna, W.
Response in the Netherlands to the GCOS IP

14:15–14:30; EMS2006-A-00363
Dobrovolný, P.; Brázdil, R.
Database of visual daily weather records and its potential for climate reconstructions in the Czech Republic

14:30–14:45; EMS2006-A-00374
Tomozeiu, R.; Nerozzi, F.
Is there a climatic evidence for the drop of the olive-tree training in the southern Po Plane ?

14:45–15:00; EMS2006-A-00149
Shumilov, O.I.; Kasatkina, E.A.; Lukina, N.V.; Kirtsidei, I.Yu.; Kanatjev, A.G.
Dendroclimatic potential of juniper trees from Kola Peninsula (North West Russia)

15:00–15:15; EMS2006-A-00354
Brázdil, R.; Ōeznřekov, L.; Valsek, H.
Early instrumental meteorological observations in the Czech Republic and their use for climate reconstructions

15:15–15:30; EMS2006-A-00227
Raicich, F.; Camuffo, D.; Cocheo, C.
Comparison of precipitation frequencies in Padova and Trieste, Italy, during the 18th century.

15:30–15:45; EMS2006-A-00565
Hickey, K.R.
The hourly gale record from Valentia observatory, SW Ireland from 1869 to 2005 and a comparison to 4 other Irish meteorological stations from 1955-2005

15:45–16:00; EMS2006-A-00508
Jilderda, R.
Computer aided determination of 0:00 to 24:00 local time minimum and maximum temperatures from old time thermograms

16:00 END OF SESSION

AC08 Information systems in climatology

Convener: Dolinar, M.
Co-Convener(s): Dyras, I.
Lecture Room: Linhart Hall
Chairperson: DYRAS, I.

8:30–9:00; EMS2006-A-00575
van der Wel, F.J.M
Latest developments in temporal GIS (solicited)

9:00–9:15; EMS2006-A-00003
Kurnik, B.; Susnik, A.
Slovenian agrometeorological information system

9:15–9:30; EMS2006-A-00369
Iden, I.; Engeset, E; Isaksen, I; Alfnes, A; Hygen, H; Michelsen, M; Orthe, O; Lytskjold, L; Mellom, M; Lil lethun, L
The project "Norge n!"

9:30–9:45; EMS2006-A-00524
Bissolli, P.
EuCLIS - a web based European Climate Information System

9:45–10:00; EMS2006-A-00421
Kreienkamp, F.; Spekat, A.
Somewhere over the rainbow. Advantages and pitfalls of colorful visualizations.

10:00–10:15; EMS2006-A-00404
Agersten, S.; Huse, M
Distribution of climate data with WEB Service technology

10:15–10:30; EMS2006-A-00109
Guijarro, J.A.; Jimenez, M.A.; Luque, A.; Mira, A.
Improving climatic maps of temperature by means of satellite IR images and mesoscale simulations

10:30 Coffee Break

Chairperson: DOLINAR, M.

11:00–11:15; EMS2006-A-00199
Hofstra, N.; New, M.
Correlation Decay Distances (CDDs) of Daily Temperature and Precipitation Data over Europe

11:15–11:30; EMS2006-A-00207

Kastelec, D.; Rakovec, J.; Zakšek, K.
Spatial Distribution of Global Radiation on Horizontal and on Inclined Surfaces in Slovenia

11:30–11:45; EMS2006-A-00065

Serrano, A. I.; **Lucio, P. S.;** Leite, S. M.; Silva, A. M.
The Evaluation of the Portuguese Meteorological Network for Small-Scale Climate Variability Detection.

11:45–12:00; EMS2006-A-00531

Dyras, I.
GIS application in the comparison of the satellite derived precipitation with automatic rain gauge network measurements.

12:00–12:03; EMS2006-A-00061

Bele, D.; Dolinar, M.
Gridded climatological database in WEB GIS application

12:03–12:06; EMS2006-A-00101

Gregoric, G.
Modernization of Slovene Meteorological Database

12:06–12:09; EMS2006-A-00336

Cappelen, JC; Kern-Hansen, CKH; Sarup, KS
Data availability from DMI, suitable for Climate information and Research

12:09–12:12; EMS2006-A-00426

Gouveia, C; Menezes, I; Pedro, I; Liberato, M L R
Enhance access to meteorological data in Cape Verde by using the Internet

12:12–12:15; EMS2006-A-00033

Nemeth, A.; **Bihari, Z.**
DEM based method for determination of potential frost-risk territories

12:15 END OF SESSION

AC10 Agrometeorology and phenology

Convener: Eitzinger, J.
Co-Convener(s): Koch, E., Chmielewski, F.
Lecture Room: M1
Chairperson: KOCH, E.

8:30–9:00; EMS2006-A-00091

Chmielewski, F.-M.; Henniges, Y.
Climate change and fruit growing in Germany (KliO) (solicited)

9:00–9:15; EMS2006-A-00010

Sivle, A.
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9:15–9:30; EMS2006-A-00364

Žust, A.; Sušnik, A.; Habiè, B.
Data Quality Control Procedures within the Common European Phenological Data Platform COST 725

9:30–9:45; EMS2006-A-00486

M. Borin, m. B; **A. Bonamano, a. B**
The trends in phenology of Zea Mais in Veneto region (Italy), 2005

9:45–10:00; EMS2006-A-00545

Aasa, A.; Ahas, R; Silm, S
Phenological trends in Estonian long-term time series and correlations with soil temperature

10:00 END OF SESSION

AC11 Human biometeorology, urban climatology and tourism

Convener: Cegnar, T.
Lecture Room: M3-M4
Chairperson: CEGNAR, T.

14:00–14:30; EMS2006-A-00498

Ezber, Y; Sen, OL; Kindap, T; **Karaca, M**
Effects of Urbanization on Climate of Istanbul: Re-evaluation

14:30–14:45; EMS2006-A-00344

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Application of climate-data within the construction industry

14:45–15:00; EMS2006-A-00105

Moraliiski, E.
Heat influx causing discomfort within residential panel buildings in Sofia

15:00–15:15; EMS2006-A-00135

Dimitrov, Cv.; Moraliiski, E.
Snow cover and snow loading on the territory of Bulgaria

15:15–15:30; EMS2006-A-00493

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How cold was the winter 2005-2006 in Sofia

15:30–16:00; EMS2006-A-00093

Kim, J.; Park, I.-S.; Lee, D.-G.; Bang, S.-Y.
Heat-related mortality in major cities of South Korea during 1991-2004

16:00 Coffee Break

Chairperson: CEGNAR, T.

16:30–16:45; EMS2006-A-00326

Ahas, R.; Aasa, A; Silm, S
Seasonal Tourism Spaces and Weather Impacts in Estonia: Study with Mobile Positioning Databases

16:45–17:15; EMS2006-A-00562

Cegnar, T.; Malc, M.
Bioclimatic conditions in Slovenian health resorts

17:15–17:30; EMS2006-A-00047

Zak, M.; Kveton, V.
New Climate Atlas of the Czech Republic – Climate Classifications

17:30–17:45; EMS2006-A-00536

Zaninoviaè, K.
Biometeorological conditions on the Adriatic coast

17:45–18:15; EMS2006-A-00435

Joksic, A. Š.; Plazar, N.; Pišot, R.; Cegnar, T.
Initiatives for national strategy on environmental health education in Slovenia

18:15 END OF SESSION

Mon
Tue
Wed
Thu
Fri

Atmosphere and the Water Cycle - a Real-Time Look

AW06 Hydrometeorology

Convener: Brilly, M.
Co-Convener(s): Mikos, M., Haase, G., Gjertsen, U.
Lecture Room: M3-M4
Chairperson: N.N.

8:30–8:45; EMS2006-A-00384

Kobold, M.; Zgonc, A.; Su¹elj, K.; Brilly, M.
Precipitation as a main source of uncertainty in rainfall-runoff models

8:45–9:00; EMS2006-A-00347

Diomedede, T.; Marsigli, C.; Nerozzi, F.; Paccagnella, T.; Selvini, A.

A spatial shifting approach to assess localisation errors in LAM quantitative precipitation forecasts forcing hydrological predictions

9:00–9:15; EMS2006-A-00324

Verseghy, D.; Bartlett, P.; Brown, R.
Snow cover parametrization in Canadian atmospheric and hydrological models

9:15–9:30; EMS2006-A-00106

Mengelkamp, H.-T.; Messal, H.; Pestel, J.
Objective and subjective calibration of an atmospheric/hydrological model system for the Odra watershed

9:30–9:45; EMS2006-A-00480

Rosberg, J.; Andréasson, J.; **Wetterhall, F.**
From Delta change to Scaling and direct use of RCM output

9:45–10:00; EMS2006-A-00116

Varga, B.; Boldizsár, A.
Water balance components of Lake Balaton from 1921 until today

10:00–10:15; EMS2006-A-00533

Ogrin, M.; Ortar, J.
Snow Water Equivalent Measurements in Mountains of northwestern Slovenia

10:15–10:30; EMS2006-A-00338

Houser, P.; **Matthews, D.;** Brilly, M.
WaterNet: The NASA Water Cycle Solutions Network

10:30 END OF SESSION

AW07 Meteorological applications: interactive information processing

Convener: Ottens, J.
Lecture Room: M3-M4
Chairperson: N.N.

11:00–11:15; EMS2006-A-00246

Molendijk, M.
Finding the needle - managing information for the forecaster

11:15–11:30; EMS2006-A-00525

Gaztelumendi, S.; Otxoa de Alda, K.; Egaña, J.; Gelpi, I.R.
Visual Products for Surveillance in the Basque Meteorology Agency.

11:30–11:45; EMS2006-A-00526

Gaztelumendi, S.; Otxoa de Alda, K.; Egaña, J.; Gelpi, I.R.
Objective Validation of human forecast: The Euskalmet approach

11:45 END OF SESSION



AMES d.o.o.
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A. Zelenka, MeteoSwiss, Switzerland

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H. Juntti (FMI)
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V. Gaertner (Eumetsat)
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