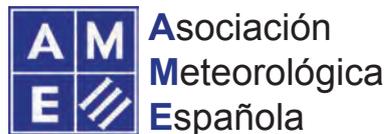


7th Annual Meeting of the  
European Meteorological Society

8th European Conference on  
Applications of Meteorology (ECAM)

# Programme Book



San Lorenzo de El Escorial, Spain, 1–5 October 2007





Copernicus  
Meetings

The 7th Annual Meeting of the European Meteorological Society and the 8th European Conference on Applications of Meteorology (ECAM) are organized in co-operation with the Copernicus GmbH.

**<http://meetings.copernicus.org>**

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## WELCOME

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Dear colleagues, welcome to the seventh EMS Annual Meeting and the eighth European Conference on Applications of Meteorology (ECAM) that are being held jointly in San Lorenzo de El Escorial, Spain. These two meetings bring together scientists, service providers, users and manufacturers from across Europe and they provide important fora for debates on future strategies in meteorology and climatology. And, of course, welcome to the beautiful town of San Lorenzo de El Escorial, an inspiring setting for the five-day conference that lies ahead.

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

The theme of our meetings is High Impact Weather, highlighting the growing need for improved forecasting capabilities and better early warning systems.

*Meteorology and customer value* are at the core of the ECAM programme, covering every time scale from nowcasting to seasonal outlooks and all branches of economic and public life. The session devoted to *Future Strategies for Meteorology in Europe* will focus on the perspectives and challenges ahead.

The EMS programme has four programme themes

- *Forecasting the weather from one day to one year ahead* – organised by the THORPEX community
- *The Atmosphere and the Water Cycle*
- *Climatology* (under the auspices of the EUMETNET programme ECSN)
- *Meteorology and Society*

The fourth theme is an important element of the mission of the EMS, and this theme now includes new sessions such as integration of meteorological knowledge in to decision making processes, gender equality and the use of the internet.

During the conference week various organisations will use the opportunity to hold workshops, annual meetings and working groups, and we are happy that synergies are generated through this conference. The conference will also feature an exhibition of companies – manufacturers, service providers and publishing houses – and European organisations. Fruitful exchange, network building, mutual inspiration is the underlying motivation for our meetings and we hope that during the week you will benefit accordingly.

The EMS and ECAM conferences would not have been possible without the work of the convenors who publicised and developed the sessions. We extend our sincere thanks for their commitment and hard work. We are also grateful to all who have contributed to make this meeting in San Lorenzo de El Escorial a reality – the EMS Member Societies and Associates, the ECAM Programme Group and the Conference Committee, the Copernicus organization, the COST Programme, GEO and the Exhibitors and of course the town of San Lorenzo and its Council.

It is expected that the conference 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.

**David M. Burridge (EMS President)**  
**Francisco Cadarso (Director INM)**  
**José Antonio Maldonado**  
**(AME President)**  
**Richard A. Anthes (AMS President)**

---

## GENERAL INFORMATION

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### Location and Conference Address

The seventh Annual Meeting of the European Meteorological Society (EMS) and the eighth European Conference on Applications of Meteorology (ECAM) are held jointly at the Euroforum in San Lorenzo de El Escorial, Spain, from 1–5 October 2007. The congress is open to the scientists of all nations.

#### Congress Centre

Congress Center Euroforum  
C/ del rey, 38  
28200 San Lorenzo de El Escorial, Madrid  
Spain Tel: +34-91-89670-00  
Fax: +34-91-89670-70  
www.euroforum.es

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

#### From El Escorial station to the conference venue

Euroforum is in San Lorenzo de El Escorial 2 km uphill from the railway station. There is a frequent bus service to San Lorenzo bus station, 100 metres from Euroforum.

#### Arriving by car

To arrive to Euroforum from El Escorial, just follow either "Monasterio" or "Euroforum Infantes" sign posts.

### 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 7th EMS/8th ECAM 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 7th EMS/8th ECAM. 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)

#### Pharmacy

A pharmacy is located in the street "Floridablanca" (5 minutes walking distance from Euroforum).

#### Photocopies

A photocopy machine is available at the front desk of Euroforum.

#### Post Office

A post office is located in the street "c/ Juan de Toledo, 2" (2 minutes walking distance from Euroforum).

#### Public Telephone

There is a public phone located downstairs in Euroforum.

#### Tourist Information

Local tourism and information office  
C/ Grimaldi 2  
Tel: +34-918-905-313  
Fax: +34-918-908-206

#### Travel Agent

JGB  
Calle Reina Victoria 14 Entrada por C/ San Lorenzo  
Tel: +34-918907200  
Fax: +34-918908192

#### Wardrobe

A wardrobe is located in front of the reception of Euroforum.

#### WLAN (WiFi)

WLAN (WiFi) is available free of charge in all common areas and in the sleeping rooms of Euroforum. Furthermore, Internet Terminals are also available.

### Registration & Information Desk

The registration & information desk is located on Sunday in the "Patio Central" (Exhibition Area). From Monday, lunch time, it will be located at the main entrance.

#### Opening Hours

Sunday, 30 September 2007  
15:00–18:00

Monday–Thursday, 1–4 October 2007  
08:00–18:00

Friday, 5 October 2007  
08:00–10:00

## Oral Sessions

Monday, 1 October 2007

Timeblock 3 15:00–17:00  
Break 2 17:00–17:30  
Timeblock 4 17:30–19:30

Tuesday–Thursday, 2–4 October 2007

Timeblock 1 08:30–10:30  
Break 1 10:30–11:30  
Timeblock 2 11:30–13:30  
Lunch 13:30–15:00  
Timeblock 3 15:00–17:00  
Break 2 17:00–17:30  
Timeblock 4 17:30–19:30

Friday, 5 October 2007

Timeblock 1 08:30–10:30  
Break 1 10:30–11:30  
Timeblock 2 11:30–13:30

## Poster Display Times

First Display Time

Monday–Wednesday, 1–3 October 2007, 08:00–20:00

Authors are kindly requested to take down their posters on Wednesday, 3 October 2007, 20:00 at the very latest.

Second Display Time

Thursday, 4 October 2007, 08:00–20:00  
Friday, 5 October 2007, 08:00–13:30

Authors are kindly requested to put on their posters on Thursday, 4 October 2007, 08:00 at the very earliest.

Posters are located in the “Salón de los Infantes”. Sticky tape is available at the registration & information desk.

## Breaks & Lunch

Coffee Breaks

10:30–11:00 and 17:00–17:30

Free coffee/tea will be served during the Coffee Breaks. The coffee station is in the exhibition area and in the foyer of the poster area in the “Salón de los Infantes”.

Lunch

13:30–15:00

All attendees of the EMS/ECAM meeting are cordially welcome to join the conference lunches. The lunches are provided as menus with 3 choices for the first course, 3 choices for the main course and 3 choices for dessert, to be chosen individually on-site. A vegetarian option is available. Water, wine and coffee are included in the price.

## Icebreaker Reception

Location: Patio Central

Date: Monday, 1 October 2007, 19:45–21:45

## Conference Committee Seventh EMS Annual Meeting and Eighth European Conference on Applications of Meteorology

David Burridge (EMS)  
Francisco Cadarso (INM)  
Manuel Palomares (INM)  
Ernesto Rodriguez-Camino (AME)  
Antonio Mestre (AME)  
Dave Parsons (AMS)  
Ewen McCallum (UK MetOffice)  
Koos Verbeek (KNMI)  
Dominique Lapeyre de Chavardès (Météo France)  
Ion Poiana (NMA, Romania)  
Lazslo Bozó (OSZM, Hungary)  
Ryszard Klejnowski (IMGW, Poland)  
Carlos Direitinho Tavares (IM, Portugal)  
Sylvain Joffre (COST, FMI)  
Horst Böttger (ECMWF)  
Evangelina Oriol-Pibernat (ESA)  
Christophe Accadia (EUMETSAT)  
Haleh Kootval (WMO)  
Georgios Amanatidis (European Commission)  
Pirkko Saarikivi (PRIMET)  
Ben Dieterink (HMEI)  
Tomas Molina (IABM)  
Aryan van Engelen (ECSN, KNMI)  
Walter Kirchhofer (ECSN)  
José M. Cuadrat (AEC, Spain)  
Tanja Cegnar (SMD, Slovenia)  
Tomas Halenka (CMeS, Czech Republic)  
Werner Wehry (DMG, Germany)  
Fulvio Stel (UMFVG, Italy)  
Bransilava Lalic (MDS, Serbia)  
Rasmus Benestad (FM, Norway)  
Manuel P. Rosa Dias (APMG, Portugal)  
Martina Junge (EMS)

## Registration & Abstract Management

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37191 Katlenburg-Lindau  
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Fax: +49-5556-99555-70  
meetings@copernicus.org  
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Vaisala provides the fundamental tools for reliable forecasts and warnings. **High impact information for high impact weather.**

*Visit the poster area on Thursday, 4 October 2007 and learn about "Measurements of the terminal velocity and shape of falling raindrops at Vaisala Rain Laboratory", paper by Atte Salmi and Lasse Elomaa.*

[www.vaisala.com](http://www.vaisala.com)

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**E** info@kippzonen.com

WWW.KIPPZONEN.COM

## EXHIBITION

Exhibition Time:

**Monday, 1 October 2007, 12:00–18:00**

**Tuesday–Thursday, 2–4 October 2007, 09:00–18:00**

Please use the opportunity to visit the Exhibition in the "Patio Central". You will find the exhibits of the following companies, institutions and societies (in alphabetical order):

**Association of Hydro-Meteorological Equipment Industry** Booth #4

7 bis, Avenue de la Paix  
1211 Geneve 2  
Switzerland  
Attn. B. Sumner  
hmei@wmo.int  
www.hydrometeoindustry.org

**Biral** Booth #13

PO Box 2, Portishead  
Bristol BS20 7JB  
UK  
Attn. R. McKay  
Tel: +44-1275-847787  
Fax: +41-1275-847303  
met@biral.com  
www.biral.com

**Campbell Scientific Ltd.** Booth #3

Campbell Park, 80 Hathern Road  
Shepshed LE12 9GX  
UK  
Attn. J. Pallarés and A. Stead  
iain.thornton@campbellsci.co.uk  
www.campbellsci.co.uk

**COST** Booth #14

149 avenue Louise  
1050 Brussels  
Belgium  
Attn. C. Petit  
cpetit@cost.esf.org  
www.cost.esf.org

**Environmental Measurements Ltd.** Booth #9

Sunderland SR5 2TA  
UK  
Attn. M. Howey and T. Jenkins  
sales@emltd.net  
www.emltd.net

**Gill Instruments Ltd.** Booth #8

Saltmarsh Park, 67 Gosport Street  
Lymington SO41 8LP  
UK  
Attn. P. Dekker Kleyn and J. Raimundo  
chris.stock@gill.co.uk  
www.gill.co.uk

**Instituto Nacional de Meteorologia** Booth #12

C/ Leonardo Prieto Castro, 8  
28071 Madrid  
Spain  
Attn. M. Angoloti  
mangoloti@inm.es  
www.inm.es

**Kipp & Zonen B.V.** Booth #6

P.O. Box 507  
2600 AM Delft  
The Netherlands  
Attn. P. Akkermans and B. Dieterink  
info@kippzonen.com  
www.kippzonen.com

**MODEM** Booth #1

Z.A. de l'orme à bonnet  
91750 Chevannes  
France  
Attn. R. Pepin and P. Charpentier  
rpepin@meteomodem.com  
www.meteomodem.com

**Scintec AG** Booth #2

Europaplatz 3  
72072 Tübingen  
Germany  
Attn. V. Thiermann and B. Schrauf  
info@scintec.com  
www.scintec.com

**SELEX Sistemi Integrati GmbH** Booth #7

Raiffeisenstrasse 10  
41470 Neuss  
Germany  
Attn. C. Marschalik and P. Bartasonok  
p.bartasonok@gematronik.com  
www.gematronik.com

**Vaisala Oyj** Booth #5/10

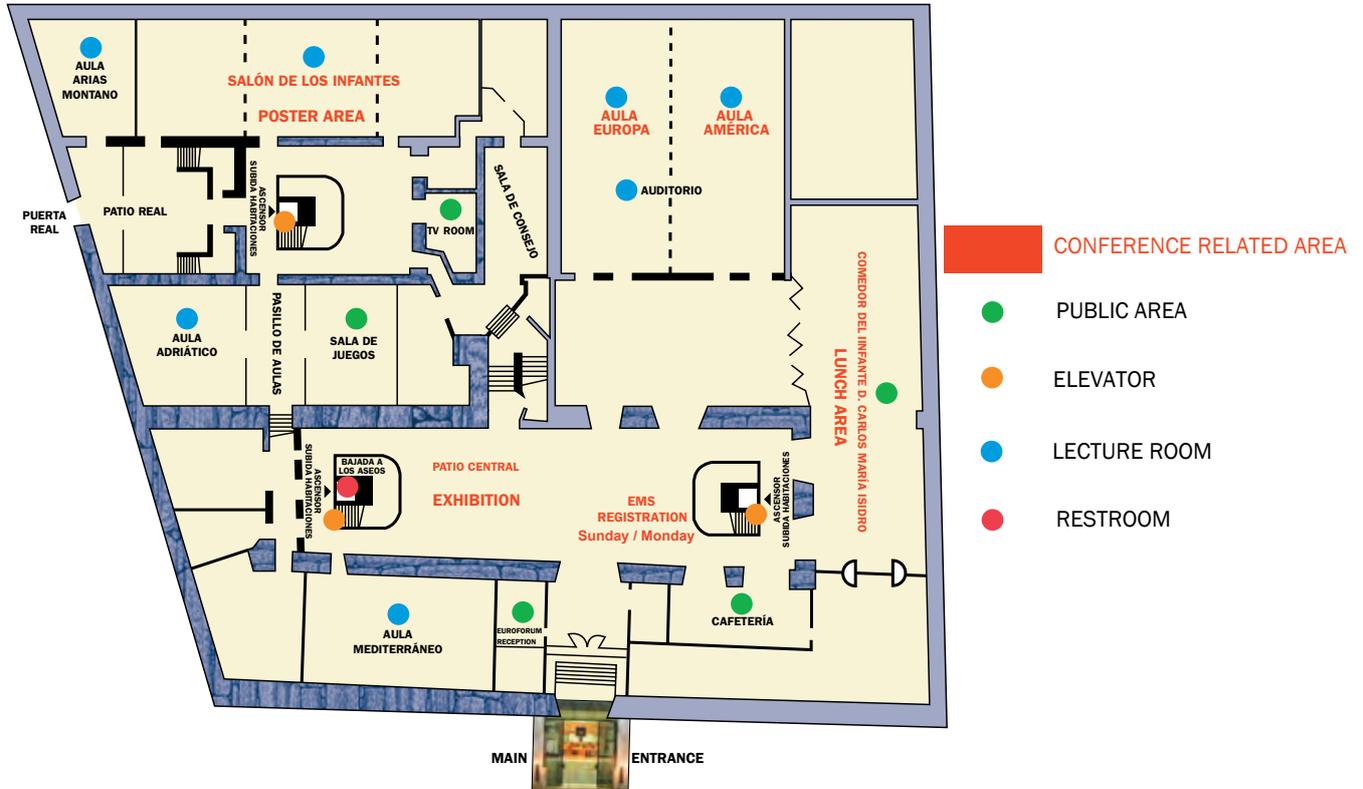
P.O. Box 26c  
00421 Helsinki  
Finland  
Attn. T. Kiianlehto  
tiina.kiianlehto@vaisala.com  
www.vaisala.com

**John Wiley & Sons Ltd.** Booth #11

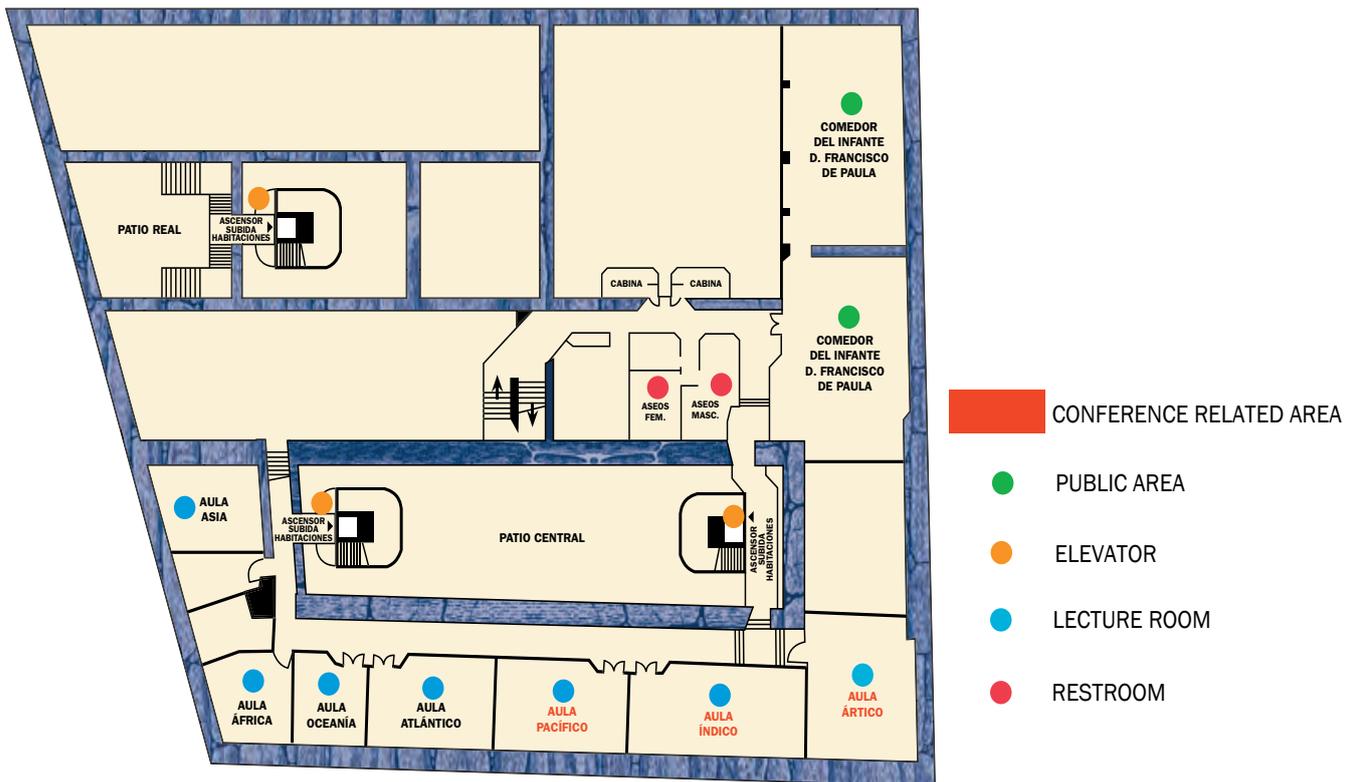
The Atrium, Southern Gate  
Chichester, PO19 8SQ  
UK  
Attn. G. Warner  
gwarner@wiley.co.uk  
www.wiley.com

## LOCATION MAPS

### EUROFORUM - PLANTA BAJA (GROUND FLOOR)



### EUROFORUM - PLANTA PRIMERA (FIRST FLOOR)



**7th EMS / 8th ECAM 2007  
Session Overview**

Day	Timeblocks	Auditorio	Europa	America	Indico	Pacifico
<b>Opening Session in the Aula, Centro Universitario</b>						
Monday	10:00-13:30					
	15:00-17:00		AM1 AM1.6/AW6.3	AW11	AW4	AW8
	17:30-19:30		AM1	AW11	AW4	AW8
<b>Icebreaker Reception: Patio Central</b>						
Tuesday	08:30-10:30		AM1	FW1	AW3	AW8
	11:30-13:30		AM1	FW1	AW2	AW8
	15:00-17:00		AM1	FW1	AW2	MS5
	17:30-19:30		AM2.1	FW1	AW2	MS7
	20:00		Reception by the Alcalde-Presidente del Ayuntamiento, New Auditorium			
Wednesday	08:30-10:30		MS2	FW1	AW13/AM2.2	
	11:30-13:30	Satellite Session				
	15:00-17:00	ECAM Special Event			CL2	
	17:30-19:30	ECAM Special Event			CL2	
<b>20:30 Conference Dinner in the La Herreria Golf Club (by reservation only)</b>						
Thursday	08:30-10:30		AW12/AM1.5	CL2	AW1	AW9
	11:30-13:30		AW12/AM1.5	CL1	AW7	MS3
	15:00-17:00		FW2	CL1	AW6.2	AW5
	17:30-19:30		FW4	CL1	AW6.1	AW5
Friday	08:30-10:30		FW4	CL1	AW6.1	AW10
	11:30-13:30		FW4	CL1	AW6.1	AW10

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

## 7th EMS / 8th ECAM 2007 Poster Session Overview

		Poster Area "Los Infantes"									
Day	Timeblock										
Monday	17:00-17:30	AW11									
Tuesday	10:30-11:30	AM1	AW2	AW3	AW4	AW6.1	AW6.2	AW8	MS1	MS7	
Wednesday	10:30-11:30	AW13/AM2.2	FW1	MS2	MS6						
	17:00-17:30	CL2									
Thursday	10:30-11:30	AW1	AW12/AM1.5	AW5	AW7	AW9	MS3				
Friday	10:30-11:30	AW10	CL1	FW2	FW4	AW6.1	AW6.2				

## Side-Meetings Overview

Day	Timeblock	Side Meeting	Room
Tuesday	09:30-16:00	PRIMET General Annual Meeting	Aula Artico
	17:30-19:00	EMS / ECAC Organising Committee	Aula Artico
Wednesday	09:00-17:00	COST 734 Expert Meeting	Aula Artico
Thursday	09:00-17:00	TIGGE-LAM Panel Meeting	Aula Artico
	08:00-16:00	PRIMET-ECOMET Annual Meeting	Aula: TBD
	17:30-20:00	COST 725 WG1 editorial board (part 1)	Aula Artico
Friday	14:00-19:00	WGCEF Annual Meeting	Aula Pacifico
	14:00-19:00	COST 725 WG1 editorial board (part 2)	Aula Indico

**Please be aware that changes in the programme may occur after the page proof state of the programme book. For up-to-date information consult the online programme at <http://meetings.copernicus.org/ems2007>, and the "Daily Programme" displayed in front of the lecture rooms.**

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## Seventh Annual Meeting of the European Meteorological Society

### Eighth European Conference on Applications of Meteorology (ECAM)

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#### Opening Session

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#### **Aula Centro Universitario, Monday, 1 October 2007, 10:00—13:30**

Please note that the Venue of the Opening Session is not part of Euroforum. A map with directions is available on the Internet and at the back of this programme book. Guides from Euroforum to Centro Universitario will help you find your way. Please allow for a 10-minute walk.

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#### **10:00–11:00 Welcome Addresses and Awards Ceremony**

##### *Welcome addresses*

**David Burridge**, EMS President

**Francisco Cadarso**, Director Instituto Nacional de Meteorología

**José Antonio Maldonado**, AME President

**Richard Anthes**, AMS President

##### *Representative of the Ministry of Environment of Spain*

**Eva López**, Representative of **José Luis Fernández-Quejo**, Mayor of San Lorenzo de El Escorial

**Ben Dieterink**, HMEI President

**Pirkko Saarikivi**, PRIMET, Member of the Board

#### **Awards Ceremony**

#### **11:00–11:30 Coffee Break**

#### **11:30–13:30 Strategic Lectures: High Impact Weather**

Chairperson: BURRIDGE, D.

##### **John Zillman**

*The social and economic value of meteorological services - the findings from the WMO Conference of March 2007 in Madrid*

**Michel Jarraud**, Secretary-General WMO

*On Disaster Mitigation*

**Filippo Giorgi**, IPCC WGI Vice-Chair

*Main messages from the IPCC Fourth Assessment Report*

**Dominique Marbouty**, Director ECMWF

*Development of early warning for severe weather*

**Alain Ratier**, Deputy Director General Météo-France

#### **13:30 Lunch Break**

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**Seventh Annual Meeting of the European Meteorological Society**  
**Eighth European Conference on Applications of Meteorology (ECAM)**

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**Plenary Satellite Session**

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**Auditorio, Wednesday, 3 October 2007, 11:30—13:30**

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**On Satellite data for the observation and prediction of weather and climate**

**11:30 Introduction by the Chair - Lars Prahm (EUMETSAT)**

**Ernst Koenemann, EUMETSAT**

*Application of EUMETSAT Satellites to Observe Weather and Climate*

**Paul Ingmann, ESA**

*The Changing Earth – New scientific challenges for Earth Observation*

**Jean-Noël Thépaut, ECMWF**

*The assimilation of satellite data and its use in analysing severe weather systems*

**Alain Podaire, GMES Bureau**

The presentations will be followed by a chaired discussion.

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**ECAM Special Event**

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**Auditorio, Wednesday, 3 October 2007, 15:00—19:30**

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**Strategies for the future of meteorology in Europe**

– how to further exploit meteorology for the benefit of society in the 21st century

This session will be organised in two parts:

**15:00 Part 1: Presentations**

**Chair:** David M. Burridge, EMS President

**Dominique Marbouty**, Director ECMWF

**Jean- Pierre Chalon**, Coordinating Officer EUMETNET

**Steven Noyes**, Director of Operations and Customer Service Management, UKMO

**Lars Prahm**, Director General EUMETSAT

**Pirkko Saarikivi**, Member of the Board, PRIMET

**Ben Dieterink**, President HMEI (invited)

**Tomas Molina**, President IABM

**Sylvain Joffre**, Chair of Earth System Science Committee, COST

**17:00–17:30 Coffee Break**

**17:30 Part 2: Panel Discussion**

**Chair:** Francisco Cadarso, Director INM

Interventions from the floor will be welcome.

# MEETING PROGRAMME

## MONDAY

Monday, 1 October 2007					
OPENING CEREMONY 10:00 – 13:30					
	Europa	America	Indico	Pacifico	Aula University
	<b>AM1:</b> Meteorology & customer value: seasonal forecasting	<b>AW11:</b> Interrelationships earth & space meteorology - 1	<b>AW4:</b> Small scale processes - 1	<b>AW8:</b> Agrometeorology - 1	MS1: Media - 1
15:00 – 17:00	A-00665: <b>Molteni, F</b>	A-00677: <b>Messerotti, M</b>	<b>14:45</b> A-00653: <b>Neggers, R</b>	A-00257: <b>Eitzinger, J</b>	A-00678: <b>Heino, R</b>
	A-00088: <b>Arribas, A</b>	A-00446: <b>Krivova, NA</b>	A-00533: <b>Krueger, S</b>	A-00352: <b>Rodriguez-Puebla, C</b>	A-00679: <b>Cegnar, T</b>
	A-00004: <b>Roads, J</b>	A-00182: <b>Roazanov, E</b>	A-00606: <b>Heus, T</b>	A-00389: <b>Trnka, M</b>	Video Clips and EMS Award
	A-00025: <b>Benestad, RE</b>	A-00592: <b>Scherer, K</b>	A-00425: <b>Cardoso, RM</b>	A-00381: <b>Lalic, B</b>	
	A-00713: <b>In Memoriam: Tony Hollingsworth</b>	Poster presentations	A-00523: <b>Teixeira, M</b>	A-00049: <b>Anda, A</b>	
		<b>AM1:</b> Meteorology & customer value: safety & extreme events-1	<b>AW11:</b> Interrelationships earth & space meteorology - 2	A-00258: <b>Jiménez, MA</b>	A-00346: <b>Stancalic, G</b>
			<b>AW4:</b> Small scale processes - 2	A-00488: <b>Bsaibes, A</b>	MS1: Media - 2
17:30 – 19:30	A-00465: <b>Dotzek, N</b>	A-00370: <b>Usoskin, IG</b>	<b>17:15</b> A-00654: <b>Raschendorfer</b>	<b>AW8:</b> Agrometeorology - 2	<b>17:00</b> A-00680: <b>Trobec, J</b>
	A-00194: <b>Martin, F</b>	A-00191: <b>Tinsley, B</b>	A-00619: <b>Baas, P</b>	A-00043: <b>Odhiambo, GO</b>	A-007xx: <b>Kootval, H</b>
	A-00150: <b>Jacobs, A</b>	A-00192: <b>Tinsley, B</b>	A-00137: <b>Mahrt, L</b>	A-00105: <b>Moteva, M</b>	
	A-00422: <b>Vazquez, R</b>	A-00070: <b>Avakyan, S</b>	A-00269: <b>Belusic, D</b>	A-00106: <b>Kazandjiev, V</b>	A-00226: <b>Hygen, HO</b>
	A-00398: <b>Ruiz, J</b>	A-00462: <b>Veizer, J</b>	A-00357: <b>Liechti, O</b>	A-00445: <b>Spekat, A</b>	TV weatherforecasters' network
	A-00720: <b>Pascual, R</b>	A-00466: <b>Veizer, J</b>	A-00006: <b>Steenefeld, GJ</b>	A-00308: <b>Utset, A</b>	
	A-00448: <b>Kar, SC</b>		A-00065: <b>Auerswald, T</b>	A-00107: <b>Kazandjiev, V</b>	
			A-00266: <b>Warner, T</b>	A-00251: <b>Di Stefano, V</b>	

Abstract numbers are abbreviated. The full abstract numbers that begin with "EMS2007-" 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.

## 8th European Conference on Applications of Meteorology (ECAM)

### AM1 Meteorology and customer value - from nowcasting to seasonal

Convener: Palomares, M.  
Co-Convener(s): McCallum, E., Lapeyre De Chavardes, D., Verbeek, K., Boettger, H.  
Lecture Room: Europa  
Chairperson: BÖTTGER, H.

#### Seasonal Forecasting

**15:00–15:30;** EMS2007-A-00665

**Molteni, F.;** Stockdale, T.; Ferranti, L.; Balmaseda, M.; Doblas-Reyes, F.

Predictions of temperature and rainfall anomalies with the ECMWF Seasonal Forecast System-3 (solicited)

**15:30–16:00;** EMS2007-A-00088

**Arribas, A.;** Cusack, S.; Maidens, A.; Gordon, M.  
Seasonal forecasting at the Met Office: challenges and applications for customers (solicited)

**16:00–16:15;** EMS2007-A-00004

**Roads, J.;** Juang, H.; Wang, J.; Fujioka, F.; Chen, S.  
Fire Danger Applications of NCEP's Downscaled CFS Forecasts

**16:15–16:30;** EMS2007-A-00025

**Benestad, R.E.;** Orsolini, Y.J.; Kindem, I.T.; Melsom, A.  
Seasonal Predictability over the Arctic Region – exploring the role of boundary conditions

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### 16:30 Coffee Break

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Chairperson: STEINHORST, G.

#### Safety and extreme events

**17:30–18:00;** EMS2007-A-00465

**Dotzek, N.;** Groenemeijer, P.; Feuerstein, B.  
The European Severe Weather Database (ESWD) - Design, Quality-Control and Applications (solicited)

**18:00–18:15;** EMS2007-A-00194

**Martín, F.;** Sanambrosio, I.; Fernández, J.M.; STAP  
Atlantic tropical cyclones close to Spain during 2005 and 2006 hurricane seasons: prediction, considerations and lessons to learn

**18:15–18:30;** EMS2007-A-00150

**Jacobs, A.**  
High impact weather program at KNMI - Extreme weather forecasts and knowledge linked to operations and warning systems

**18:30–18:45;** EMS2007-A-00422

**Vazquez, R.**  
High impact weather episodes promoted by a persistent cut off low system located south-west off Spain during the second half of may 2007

**18:45–19:00;** EMS2007-A-00398

**Ruiz, J.;** Martínez, M.A.; Cuevas, E.; Velazquez, M.; Cuevas Tascón, G.; Manso, M.  
Use of visible normalized SEVIRI images in a WMO Sand and Dust Storm Warning System

**19:00–19:15;** EMS2007-A-00720

**Pascual, R.;** Callado, A.  
Hiking accidents and strong northerly winds over Mediterranean Pyrenees

**19:15–19:30;** EMS2007-A-00448

**Kar, S.C.;** Bohra, A.K.  
Simulation of Extreme Rainfall Events during Indian Summer Monsoon Seasons using the NCMRWF Global Modeling System

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**19:30 END OF THE DAY**

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### AM1.6/AW6.3 The GEMS project and the MACC proposal (joint session)

Convener: Joffre, S.  
Co-Convener(s): Bultjes, P., Sokhi, R.  
Lecture Room: Europa  
Chairperson: BÖTTGER, H.

**16:30–17:00;** EMS2007-A-00713

**In Memoriam: Hollingsworth, T.**  
THE GEMS project (2005-2009) and the MACC proposal (2009-2011) (solicited)

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**17:00 END OF SESSION**

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## Atmosphere and the Water Cycle

### AW4 Modelling, forecasting and validation of Small-scale Processes in Atmospheric Models

Convener: Holtslag, B.  
Co-Convener(s): Steeneveld, G., Heus, T.  
Lecture Room: Indico  
Chairperson: HEUS, T.

**14:45–15:15;** EMS2007-A-00653

**Neggers, R.**  
Parameterization of cloudy boundary layers in the ECMWF model (solicited)

**15:15–15:30;** EMS2007-A-00533

**Krueger, S.;** Sun, R.  
Interactions of Cumulus Convection and the Boundary Layer

**15:30–15:45;** EMS2007-A-00139

**Han, J.;** Pan, H.-L.  
Revision of the Boundary Layer Mixing Scheme and Mass-Flux Parameterization of Shallow Cumulus Convection in the NCEP Global Forecast System

**15:45–16:00;** EMS2007-A-00606

**Heus, T.;** Jonker, H.J.J.; Griffith, E.J.; Post, F.H.  
Lifecycle analysis of cumulus clouds using a 3D virtual reality environment

**16:00–16:15;** EMS2007-A-00425

**Cardoso, R.M.;** Teixeira, M.A.; Miranda, P.M.  
Non-hydrostatic Flows Past 3D Obstacles

**16:15–16:30;** EMS2007-A-00523

**Teixeira, M.;** Miranda, P.  
Critical level effects on the mountain wave drag exerted by a piecewise-linear wind profile at low Ri

**16:30–16:45;** EMS2007-A-00258

**Jiménez, M.A.;** Cuxart, J.; Mira, A.  
Verification of mesoscale simulations through Probability Density Functions

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**16:45 Coffee Break**

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Chairperson: STEENEVELD, G.J.

**17:15–17:45;** EMS2007-A-00654

**Raschendorfer, M.**

The generation of additional source terms in the TKE equation of NWP models at DWD with special relevance for the stable boundary layer – non locality by scale separation and inclusion of SGS surface structures (solicited)

**17:45–18:00;** EMS2007-A-00619

Bosveld, F.C.; **Baas, P.**; Steeneveld, G.J.

Simple but realistic cases from Cabauw for GABLS

**18:00–18:15;** EMS2007-A-00137

**Mahrt, L.**; Zagar, M.; Grisogono, B.; Belusic, D.

Observed and modelled mesoscale motions in the nocturnal boundary layer

**18:15–18:30;** EMS2007-A-00269

**Belusic, D.**; Mahrt, L.

Estimation of length scales from mesoscale networks

**18:30–18:45;** EMS2007-A-00357

**Liechti, O.**

Radiative cooling in still air

**18:45–19:00;** EMS2007-A-00006

**Steenefeld, G.J.**; Groot Zwaafink, C.D.; Wokke, M.; Pijlman, S.; Heusinkveld, B.G.; Jacobs, A.F.G.; Holt-slag, A.A.M.

Observations and parameterization of longwave radiative flux divergence in the stable boundary layer over land

**19:00–19:15;** EMS2007-A-00065

**Auerswald, T.**; Bange, J.; Radespiel, R.

Generation of a three-dimensional turbulent initial wind field for large-eddy simulation

**19:15–19:30;** EMS2007-A-00266

**Warner, T.**; Hahmann, A.; Liu, Y.; Swerdlin, S.

Verification of mesoscale-model forecasts for Athens during the 2004 Summer Olympic Games

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**19:30** END OF SESSION

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### AW8 Agrometeorology

Convener: Lalic, B.

Co-Convener(s): Koch, E., Sivertsen, T.

Lecture Room: Pacifico

Chairperson: SPEKAT, A.

**15:00–15:30;** EMS2007-A-00257

**Eitzinger, J.**; Thaler, S.; Kubu, G.; Rischbeck, P.; Trnka, M.; Schaumberger, A.

Regional climate change impact and adaptation assessment on agriculture in Austria (solicited)

**15:30–15:45;** EMS2007-A-00352

**Rodriguez-Puebla, C.**; Ayuso, S.M.; Frias, M.D.

Understanding the interactions between agricultural production and climate variability

**15:45–16:00;** EMS2007-A-00389

**Trnka, M.**; Dubrovský, M.; Hlavinka, P.; Semerádová, D.; Žalud, Z.; Horáková, V.

Projection of Uncertainties of the Climate Change Scenarios into the Cereal Production Estimates – Central Europe as a Case Study

**16:00–16:15;** EMS2007-A-00381

**Lalic, B.**; Dubrovsky, M.; Mihailovic, D.T.

Calculation of agrometeorological indices using different GCM scenarios

**16:15–16:30;** EMS2007-A-00049

**Anda, A.**; Kocsis, T.

Modelling temperatures of maize stand in Hungary in consequence of global warming

**16:30–16:45;** EMS2007-A-00346

**Stancalie, G.**; Nertan, A.; Irimescu, A.

Estimating crop parameters from satellite data by the SAIL+PROSPECT coupled model

**16:45–17:00;** EMS2007-A-00488

Courault, D.; **Bsaibes, A.**; Marloie, O.; Hanocq, J.F.; Bertrand, N.; Desfonds, V.; Hagolle, O.; Olioso, A.; Jacob, F.; Fillol, E.

Impact of the cultural practices on the spatial variability of surface fluxes and microclimate at the regional scale

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**17:00** Coffee Break

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Chairperson: SIVERTSEN, T.H.

**17:30–17:45;** EMS2007-A-00043

**Odhiambo, G.O.**; Savage, M.J.

Influence of wind direction and a slanting beam angle on surface layer scintillometer estimates of sensible heat flux

**17:45–18:00;** EMS2007-A-00105

Moteva, M.; Kazandjiev, V.; Georgieva, V.

Investigation of FAO Penman-Monteith Reference Evapotranspiration over the Territory of Bulgaria

**18:00–18:15;** EMS2007-A-00106

Moteva, M.; **Kazandjiev, V.**; Georgieva, V.

Impact of Climate Change on Reference Evapotranspiration in Bulgaria

**18:15–18:30;** EMS2007-A-00445

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

Future atmospheric conditions for plant growth according to regional modelling

**18:30–18:45;** EMS2007-A-00308

**Utset, A.**; Eitzinger, J.; Alexandrov, V.

Introducing climate and crop-growth modelling tools to provide climate-risk mitigation options to European agriculture: The role of local researchers, seasonal forecasts and demonstration proposals

**18:45–19:00;** EMS2007-A-00107

**Kazandjiev, V.**; Moteva, M.; Georgieva, V.

Verification of WOFOST Model for Soil and Meteorological Conditions of Bulgaria

**19:00–19:15;** EMS2007-A-00251

**Di Stefano, V.**; Agati, G.; Dalla Marta, A.; Mancini, M.; Orlandini, S.

Solar radiation levels and interaction with grapevine diseases

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**19:15** END OF SESSION

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### AW11 Interrelationships between Earth and Space Meteorology

Convener: Messerotti, M.

Lecture Room: America

Chairperson: MESSEROTTI, M.

**15:00–15:15;** EMS2007-A-00677

**Messerotti, M.**

Building a knowledge model for space forcing on Earth weather and climate

**15:15–15:45;** EMS2007-A-00446

**Krivova, N.A.**

Variations of solar irradiance on time scales of days to millennia (solicited)

**15:45–16:15;** EMS2007-A-00182

**Rožanov, E.;** Fischer, A.; Brönnimann, S.; Egorova, T.; Schmutz, W.

The influence of the UV solar irradiance variability on ozone and climate during the first half of the 20th century (solicited)

**16:15–16:45;** EMS2007-A-00592

**Scherer, K.;** Fichtner, H.; Heber, B.

Interstellar-terrestrial relation (solicited)

**16:45–16:48;** EMS2007-A-00539

**Bordás, Á.;** Kapor, D.

Performing Milankovič's original calculations using modern numerical methods

**16:48–16:51;** EMS2007-A-00390

**Maris, G.;** Maris, O.; Dobrica, V.; Demetrescu, C.

Rapid solar wind streams during solar cycle 23 and their geomagnetic imprint

**16:51–16:54;** EMS2007-A-00440

**Todorovich, N.;** Vujovic, D.

The relationship between coronal holes and cold air advection in Belgrade region

**16:54–16:57;** EMS2007-A-00377

**Dobrica, V.;** Demetrescu, C.; Maris, G.; Boroneant, C.

Solar and geomagnetic forcing of climate changes during the instrumental period in Romania

**16:57–17:00;** EMS2007-A-00372

**Demetrescu, C.;** Dobrica, V.; Maris, G.

Long-term space climate variations as evidenced by geomagnetic field variations

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**17:00** Coffee Break

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Chairperson: MESSEROTTI, M.

**17:30–18:00;** EMS2007-A-00370

**Usoskin, I.G.**

Atmospheric Effects of Cosmic Rays (solicited)

**18:00–18:15;** EMS2007-A-00191

**Tinsley, B.**

Models of electrical effects on clouds, linking solar activity with weather and climate change (solicited)

**18:15–18:30;** EMS2007-A-00192

**Tinsley, B.**

Observations of electrical effects on clouds, linking solar activity with weather and climate change (solicited)

**18:30–18:45;** EMS2007-A-00070

**Avakyan, S.;** Voronin, N.

Potential Earth weather controlling agent in the solar-terrestrial physics (solicited)

**18:45–19:00;** EMS2007-A-00462

**Veizer, J.**

Climate, water and carbon cycles: terrestrial records across a hierarchy of time scales (solicited)

**19:00–19:15;** EMS2007-A-00466

**Ferguson, P.R.;** **Veizer, J.**

Coupling of water vapor and carbon dioxide fluxes via the terrestrial biosphere: regional-scale estimates of evaporation and plant transpiration (solicited)

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**19:15** END OF SESSION

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## **AW11 Interrelationships between Earth and Space Meteorology – Posters**

Convener: Messerotti, M.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Monday, 17:00–17:30**

Poster Area Los Infantes

Chairperson: MESSEROTTI, M.

**P0089;** EMS2007-A-00539

**Bordás, Á.;** Kapor, D.

Performing Milankovič's original calculations using modern numerical methods

**P0090;** EMS2007-A-00390

**Maris, G.;** Maris, O.; Dobrica, V.; Demetrescu, C.

Rapid solar wind streams during solar cycle 23 and their geomagnetic imprint

**P0091;** EMS2007-A-00440

**Todorovich, N.;** Vujovic, D.

The relationship between coronal holes and cold air advection in Belgrade region

**P0092;** EMS2007-A-00377

**Dobrica, V.;** Demetrescu, C.; Maris, G.; Boroneant, C.

Solar and geomagnetic forcing of climate changes during the instrumental period in Romania

**P0093;** EMS2007-A-00372

**Demetrescu, C.;** Dobrica, V.; Maris, G.

Long-term space climate variations as evidenced by geomagnetic field variations

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## **Meteorology and Society**

### **MS1 Media and Communication**

Convener: Cegnar, T.

Co-Convener(s): Fleming, G.

Lecture Room: Aula Centro Universitario  
(not in Euroforum!)

Chairperson: CEGNAR, T.

**15:00–15:30;** EMS2007-A-00678

**Heino, R.**

Climate and media (solicited)

**15:30–16:00;** EMS2007-A-00679

**Cegnar, T.**

Preparing for an interview

**16:00–16:30** Video clips and EMS media awards

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**16:30** Coffee Break

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Chairperson: FLEMING, G.

**17:00–17:30;** EMS2007-A-00680

**Trobec, J.**

TV weather – emphasis on severe weather events (solicited)

**17:30–18:00** H. Kootval: Capacity Building Strategies in WMO Public Weather Services Programme: Media and the Public

**18:00–18:15;** EMS2007-A-00226

**Hygen, H.O.;** Haaland, S.

Ekstremværuka 06: One week of extreme weather information, concept and ideas

**18:15–18:30** TV Weather forecasters networks

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**18:30** END OF SESSION

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# MEETING PROGRAMME

## TUESDAY

Tuesday, 2 October 2007				
	Europa	America	Indico	Pacifico
	AM1: Met& customer value: safety & extreme events - 2	FW1: THORPEX - 1	AW3: Air-Sea interaction	AW8: Agrometeorology - 3
8:30 - 10:30	A-00469: Staudinger, M	A-00117: Davies, HC	A-00641: Larsen, SE	A-00086: Koch, E
	A-00640: van Dorp, H	A-00515: Hansen, J	A-00202: Bozzano, R	A-00299: Bonamano, A
	A-00327: Molendijk, M	A-00687: Ehrendorfer, M	A-00203: Teixeira, J	A-00323: Nejedlik, P
	A-00337: Hippi, M		A-00566: Jenkins, AD	A-00364: Hájková, L
	A-00601: Silva, J	A-00688: Bougeault, P	A-00559: Wilson, L	A-00330: Tureu, VE
	A-00600: Bugalho, L	A-00638: Paccagnella, T	A-00611: Moreira, N	A-00603: Romanovskaja, D
	A-00218: Nair, KS	A-00126: Garcia-Moya, JA	A-00612: Miglietta, M	A-00332: Mateescu, E
	AM1: Meteorology & customer value: energy	FW1: THORPEX - 2	AW2: Boundary layer physics- 1	AW8: Agrometeorology - 4
	Crocobette, C.	A-00168: Montani, A	A-00019: Mahrt, L	A-00120: Viaya Kumar, P
	A-00260: Trancoso, A	A-00170: Anwender, D		A-00273: Silva, S
11:30 - 13:30	A-00275: von Bremen, L	A-00207: Tittley, H	A-00029: Millan, M	A-00621: Brechler, J
	A-00507: Saleck, N	A-00232: Santos, C	A-00662: Grisogono, B	A-00624: Sivertsen, TH
	A-00567: Petroliaigs, T	A-00311: Kilpinen, J	A-00084: Mapes, B	
		A-00449: Gomez, B	A-00103: Catalano, F	
		A-00471: Marsigli, C	A-00658: Room, R	
		A-00689: Wu, CC	A-00247: Galperin, B	
	AM1: Met. & customer value: health & air quality	FW1: THORPEX - 3	AW2: Boundary layer physics- 2	MS5: Gender Equality
	Moch, O	A-00552: Charron, M		Open to all conference participants
	A-00672: Koppe, C	A-00483: Montrofy, R	A-00186: Moeng, CH	14:45 A-00652: Kootval, H
15:00 - 17:00	A-00718: Sachon, P	A-00140: Anthes, R	A-00197: Martilli, A	A-00626: Namodji, L
	A-00075: Camacho, JL	A-00300: Hagel, E	A-00174: Cava, D	A-00729: Star-Ston, A
	A-00111: Soriano, C	A-00040: Pokrovsky, O	A-00288: Cheng, Y	A-00644: Rudolph, P
	A-00622: Mureau, R	A-00221: Pradier-Vabre, S	A-00663: Petrosyan, A	A-00237: Huebener, H
	AM2: New developments in meteorology	A-00553: Pellerin, S	A-00041: Terradellas, E	A-00630: Stoll, M
	A-00180: Cardinali, C	A-00399: Thorsteinsson, S	A-00657: Tamsalu, R	A-00280: Goodess, CM
	A-00468: Roulet, YA	FW1: THORPEX - 4	AW2: Boundary layer physics- 3	MS7: Use of the Internet
17:30 - 19:30	A-00060: Ovhed, M	A-00494: Wernli, H	A-00655: Zilitinkevich, S	Molina, T
	A-00220: Bali, M	A-00690: Weisman, M	A-00656: Argentini, S	A-00302: Hygen, HO
	A-00188: Landry, C	A-00691: Ruti, PM	A-00169: Baas, P	A-00078: Kroonenberg, FC
	A-00485: Landry, C		A-00659: Mammarella, I	
	A-00579: Saarikivi, P	A-00692: Eludoyin,	A-00664: Zilitinkevich, S	A-00490: Ploski, J
		A-00693: Sonechkin, D	A-00660: Belotserkovsky, A	A-00719: Ellis, P
19:30		A-00454: Gan, MA	A-00661: Stepanenko, S	
			A-00682: Kasimov, N	

# 8th European Conference on Applications of Meteorology (ECAM)

## AM1 Meteorology and customer value - from nowcasting to seasonal

Convener: Palomares, M.  
Co-Convener(s): McCallum, E., Lapeyre De Chavardes, D., Verbeek, K., Boettger, H.  
Lecture Room: Europa  
Chairperson: STEINHORST, G.

**8:30–9:00**; EMS2007-A-00649

**Staudinger, M.**

European Meteorological Services and harmonized warnings for extreme meteorological events (solicited)

**9:00–9:15**; EMS2007-A-00640

**van Dorp, H.**; Mureau, R.

The KNMI Weather Alarms

**9:15–9:30**; EMS2007-A-00327

**Molendijk, M.**

The concept of meteorological triggers - staying ahead of (severe) weather developments

**9:30–9:45**; EMS2007-A-00337

**Hippi, M.**; Nurmi, P.; Saarikivi, P.; Sipilä, J.

Development project ColdSpots: Accurate road condition forecasts for road stretches

**9:45–10:00**; EMS2007-A-00601

**Abrantes, T.**; **Silva, J.**

Meteorology and the forest fire prevention in Portugal

**10:00–10:15**; EMS2007-A-00600

**Bugalho, L.**; Pessanha, L.

Monitoring forest fire in Portugal

**10:15–10:30**; EMS2007-A-00218

**Nair, K.S.**

An assessment of the impact of extreme weather on socio-economic conditions in India

**10:30** Coffee Break

Chairperson: LAPEYRE DE CHAVARDES, D.

Energy

**11:30–12:00**

**Crocombette, C.**

The weather impact on the transport of electricity (solicited)

**12:00–12:15**; EMS2007-A-00260

**Trancoso, A.**; Domingos, J.; Pestana, R.

Wind power predictability: comparative study of forecasts with MM5 and WRF for Portuguese transmission system operator

**12:15–12:30**; EMS2007-A-00275

**von Bremen, L.**; Hagedorn, R.; Petroliagis, T.

Towards probabilistic Wind Power Forecasting based on Ensemble Prediction Techniques

**12:30–12:45**; EMS2007-A-00507

**Saleck, N.**; Bertsch, F.; von Bremen, L.; Heinemann, D.

Accuracy of near real time updates in wind power forecasting with regard to different weather regimes

**12:45–13:00**; EMS2007-A-00567

**Petroliagis, T.**; Bremen, L.v.; Heinemann, D.

Deployment and validation of the Weather Research and Forecasting (WRF) model on the German Grid for wind power prediction applications

**13:00–13:30** Discussion

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**13:30** Lunch

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Chairperson: VERBEEK, K.

Health and air quality

**15:00–15:30** Moch, O.: Lessons learned from the 2003 heat wave (solicited)

**15:30–16:00**; EMS2007-A-00672

**Koppe, C.**

Probabilistic and deterministic Heat Health Warnings in Germany and Europe (solicited)

**16:00–16:15**; EMS2007-A-00718

**Sachon, P.**; Laing-Morten, T.; Marno, P.

Pilot of an Automated Direct-to-Patient Health Forecasting System in Cornwall, South West England, for people with Chronic Obstructive Pulmonary Disease (solicited)

**16:15–16:30**; EMS2007-A-00075

**Camacho, J.L.**; Ardao, J.; Cano, D.; Cervigon, P.; Díaz, J.; Gutierrez, A.M.; Subiza, J.

Forecasting start of platanus pollen season and grass pollen peaks in the Madrid region (Spain)

**16:30–16:45**; EMS2007-A-00111

**Soriano, C.**; Seguí, L.; Cabrera, L.

On the use of long-term simulations with mesoscale meteorological model for environmental impact assessment studies

**16:45–17:00**; EMS2007-A-00622

**Mureau, R.**

Heat and Health forecasts in the Netherlands

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**17:00** END OF SESSION

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## AM1 Meteorology and customer value - from nowcasting to seasonal – Posters

Convener: Palomares, M.

Co-Convener(s): McCallum, E., Lapeyre De Chavardes, D., Verbeek, K., Boettger, H.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0027**; EMS2007-A-00148

**Singleton, A.T.**; Pierce, C.E.; Whitfield, D.

Use of probabilistic rainfall forecasts for fluvial flood forecasting and warning

**P0028**; EMS2007-A-00225

**Hächler, P.**

Extreme snowfall in and near the Alps and there warning

**P0029**; EMS2007-A-00090

**Bajic, A.**; Zibrat, Z.; Ivatek Sahdan, S.

Road Traffic Safety Alarm System for the Severe Wind Conditions (cancelled)

**P0030**; EMS2007-A-00286

**Cvitan, L.**

Trends in temperature parameters used for recent heating energy assessment in Crikvenica (Croatia)

**P0031**; EMS2007-A-00044

**Pool, M.**

Mobile Weather Radar for Commercial Applications

**P0032;** EMS2007-A-00645

**Gaztelumendi, S.;** Gelpi, I.R.; Egaña, J.; Otxoa de Alda, K.  
Implementation of a UV forecasting system for Basque Country area

**P0033;** EMS2007-A-00648

**Gelpi, I.R.;** Gaztelumendi, S.; Egaña, J.; Otxoa de Alda, K.  
A preliminary mesoscale analysis system for the Basque Country: Description and some results

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### AM2.1 New developments in meteorology

Convener: McCallum, E.  
Co-Convener(s): Lapeyre De Chavardes, D., Boettger, H.  
Lecture Room: Europa  
Chairperson: MCCALLUM, E.

**17:30–17:45;** EMS2007-A-00180

**Rabier, F.;** Gauthier, P.; Langland, R.; **Cardinali, C.;** Gelaro, R.  
Objectives of the THORPEX working group on Data Assimilation and Observing Strategies for high impact weather forecast improvements

**17:45–18:00;** EMS2007-A-00468

**Roulet, Y.-A.;** Rast, J.; Heimo, A.; Konzelmann, T.; Calpini, B.  
SwissMetNet: Renewal of the Swiss ground-based measurement network and its operational quality control

**18:00–18:15;** EMS2007-A-00060

**Ovhed, M.;** Thomsen, U.  
Designing a forecasting system - how do we use the human forecaster?

**18:15–18:30;** EMS2007-A-00220

**Bali, M.**  
An interactive weather forecasting strategy for the future

**18:30–18:45;** EMS2007-A-00188

**Bourgouin, P.;** Verret, R.; Turcotte, M.-F.; Bearegard, S.; Archambeault, B.; Hogdson, J.; Gagnon, N.; **Landry, C.**  
Developing operational uses of the Canadian ensemble prediction system

**18:45–19:00;** EMS2007-A-00485

**Verret, R.;** Jones, R.; Vigneux, D.; **Landry, C.;** Holly, M.; McLean, J.; Parent, R.; Deschenes, J.-F.; Talbot, J.-P.; Faust, L.  
An integrated forecast production system

**19:00–19:15;** EMS2007-A-00579

**Saarikivi, P.**  
The European Union data policy and its implementation to weather services

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**19:15** END OF SESSION

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## Atmosphere and the Water Cycle

### AW2 Boundary-layer physics and parameterizations in weather and climate forecast

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

**11:30–12:00;** EMS2007-A-00019

**Mahrt, L.**  
The influence of mesoscale modes on horizontal dispersion and turbulence diffusion for stable conditions (solicited)

**12:00–12:15;** EMS2007-A-00029

**Millan, M.**  
Boundary Layer Evolution under compensatory Mesoscale circulations

**12:15–12:30;** EMS2007-A-00662

**Grisogono, B.;** Kavcic, I.; Durran, D.; Belusic, D.; Zagar, M.; Enger, L.; Mahrt, L.  
Modeling simple katabatic Flows

**12:30–12:45;** EMS2007-A-00084

**Mapes, B.;** Kelly, P.  
Model intercomparison of land-atmosphere interactions over the Mexican plateau

**12:45–13:00;** EMS2007-A-00103

**Catalano, F.;** Cenedese, A.; Cordisco, G.  
Numerical simulations of thermally driven slope winds

**13:00–13:15;** EMS2007-A-00658

**Room, R.;** Luhamaa, A.; Mannik, A.  
Parameterization of BL flows in nonhydrostatic HIRLAM

**13:15–13:30;** EMS2007-A-00247

**Galperin, B.;** Sukoriansky, S.; Perov, V.  
Implementation of the quasi-normal scale elimination (QNSE) turbulence theory in HIRLAM and WRF

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**13:30** Lunch

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Chairperson: N.N.

**15:00–15:30;** EMS2007-A-00186

**Moeng, C.-H.**  
Challenges of large-eddy simulation applications to complex PBLs (solicited)

**15:30–15:45;** EMS2007-A-00197

**Martilli, A.;** Galmarini, S.  
On the importance of subgrid deterministic features in atmospheric models

**15:45–16:00;** EMS2007-A-00174

**Cava, D.;** Contini, D.; Donato, A.; Martano, P.  
Analysis of short-term closure of the surface energy balance in different seasons

**16:00–16:15;** EMS2007-A-00288

**Canuto, V.M.;** **Cheng, Y.**  
A Derivation of the Epsilon Equation from a Two-point Closure Turbulence Model

**16:15–16:30;** EMS2007-A-00663

**Petrosyan, A.;** Karelsky, K.  
Development and validation of model for aerosols transportation in boundary layers

Mon

Tue

Wed

Thu

Fri

**16:30–16:45;** EMS2007-A-00041

**Terradellas, E.;** Ferreres, E.; Soler, R.M.  
Analysis of turbulence in fog episodes

**16:45–17:00;** EMS2007-A-00657

**Tamsalu, R.**

High resolution atmosphere–sea–water ecosystem model suite: the general architecture and the role of turbulence

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**17:00** Coffee Break

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Chairperson: N.N.

**17:30–18:00;** EMS2007-A-00655

**Zilitinkevich, S.;** Esau, I.

Similarity theory and calculation of turbulent fluxes at the surface (solicited)

**18:00–18:15;** EMS2007-A-00656

**Argentini, S.;** Pietroni, I.

Turbulence structure and local Richardson number vertical profiles under stable conditions at Dome C, Antarctica

**18:15–18:30;** EMS2007-A-00169

**Baas, P.;** de Roode, S.R.; Lenderink, G.

The Scaling Behaviour of a Turbulent Kinetic Energy Closure Model for Stably Stratified Conditions

**18:30–18:45;** EMS2007-A-00659

**Mammarella, I.;** Zilitinkevich, S.; Baklanov, A.; Joffre, S.

On the stability dependence of the roughness length for very rough natural surfaces

**18:45–19:00;** EMS2007-A-00664

**Zilitinkevich, S.;** Petrosyan, A.; Stepanenko, S.; Belotserkovsky, A.; Karlin, L.; Kasimov, N.; Tamsalu, R.; Room, R.; Bashmakova, I.; Serditova, E.

Round table discussion on BL aspects of meteorological education

**19:00–19:15;** EMS2007-A-00660

**Belotserkovsky, A.;** Karlin, L.

Technologies and meteorology education

**19:15–19:30;** EMS2007-A-00661

**Stepanenko, S.**

BLM in meteorological education in Ukraine: new demands and prospects

**19:30–19:45;** EMS2007-A-00682

**Kasimov, N.;** Dobrolyubov, S.; Kislov, A.

Hydrometeorological Aspects of Higher Education for Sustainable Development in Russia

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**19:45** END OF SESSION

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## **AW2 Boundary-layer physics and parameterizations in weather and climate forecast – Posters**

Convener: Zilitinkevich, S.

Co-Convener(s): Petrosyan, A.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0034;** EMS2007-A-00015

**López González-Nieto, P.;** Cano Marchante, J.L.

Time evolution of Thorpe scale, Ozmidov scale and turbulent dissipation rate corresponding to PBL data

**P0035;** EMS2007-A-00057

**Potužníková, K.;** Sedlák, P.; Šauli, P.

Low-frequency coherent motions within the spruce forest at mountainous site Bílý Kříž: effect of thermal stability

**P0036;** EMS2007-A-00142

**Tijera, M.;** Cano, J.

Fractal dimension of wind velocity versus the Reynolds number and the mean wind speed

**P0037;** EMS2007-A-00163

**Syrakov, E.**

On the full tensor of the turbulent exchange coefficients in PBL

**P0038;** EMS2007-A-00198

**Viana, S.;** Yagüe, C.; Maqueda, G.

Study of coherent structures from different observational sources in SABLES 2006

**P0039;** EMS2007-A-00211

**Sanchez, E.;** Yagüe, C.; Gaertner, M.A.

Present and future climate planetary boundary layer energetics over the Iberian Peninsula obtained from a TKE closure in a regional climate model

**P0040;** EMS2007-A-00317

**Noda, A.T.;** Iwasaki, T.; Ujiie, M.

A parameterization scheme for the cloud-topped boundary-layer, and its validation using a regional model

**P0041;** EMS2007-A-00369

**Martínez, D.;** Cuxart, J.; Jiménez, M.A.

An application of the hydraulic katabatic wind model to the slope flows in mid-latitudes

**P0042;** EMS2007-A-00408

**Martínez, G.;** Vazquez, L.; Valero, F.; Cano, J.

A characterization of Mars surface layer

**P0043;** EMS2007-A-00554

**Guerra, J.C.;** Carrillo, J.; Rodríguez, J.; Díaz, J.P.; Aren-cibia, M.T.; Cuevas, E.

Thermodynamic structure of the lower subtropical troposphere over the Canary Islands

**P0044;** EMS2007-A-00627

**Sempreviva, A.M.;** ModObs TEAM

ModObs: “Atmospheric modelling for wind energy, climate and environment applications: exploring added value from new observation technique”. A new Marie Curie Research Training Network in Europe

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## **AW3 Air-Sea Interactions**

Convener: Sempreviva, A.

Co-Convener(s): Soerensen, L., Gryning, S., Mario Marcello, M.

Lecture Room: Indico

Chairperson: SEMPREVIVA, A.M.

**8:30–8:45;** EMS2007-A-00641

**Larsen, S.E.;** Jørgensen, H.E.; Nissen, J.

Meso-scale variation over the sea (solicited)

**8:45–9:00;** EMS2007-A-00202

**Schiano, E.;** Sparnocchia, S.; Picco, P.; Pensieri, S.; **Bozzano, R.**

The ODAS Italia 1 buoy: an offshore laboratory for air-sea interaction studies

**9:00–9:15;** EMS2007-A-00684

**Sood, A.;** Suselj, K.

Revisiting marine atmospheric boundary layer parameterisation: Validation over the North Sea 2004–2006 using FINO-1 data

**9:15–9:30;** EMS2007-A-00203

**Teixeira, J.;** LASIE group

Ligurian Air-Sea Interaction Experiment

**9:30–9:45;** EMS2007-A-00566

**Jenkins, A.D.;** Sætra, Ø.; Troitskaya, Yu. I

On the modelling of the influence of wind waves on the turbulent boundary layers above and below the air-water interface

**9:45–10:00;** EMS2007-A-00559

**Wilson, L.;** Diaconu, O.

Can statistical post-processing of marine wind forecasts improve the wave forecasts from WAM?

**10:00–10:15;** EMS2007-A-00611

**Carvalho, A.;** Soares, I.; Belo Pereira, M.; Vargas, M.;

**Moreira, N.;** Pinto, P.

Vince: a case study

**10:15–10:30;** EMS2007-A-00612

**Moscattello, A.;** Pacifico, F.; Davolio, S.; **Miglietta, M.M.;**

Rotunno, R.

Observational and numerical analysis of a Mediterranean "hurricane" over south-eastern Italy

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**10:30** END OF SESSION

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**AW3 Air-Sea Interactions – Posters**

Convener: Sempreviva, A.

Co-Convener(s): Soerensen, L., Gryning, S., Marcello, M.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: SOERENSEN, L.L.

**P0045;** EMS2007-A-00056

**Chmel, A.;** Smirnov, V.; Panov, L.

Effects of air temperature and wind velocity on the correlated dynamics of sea-ice drift

**P0046;** EMS2007-A-00160

**Weiss, A.L.;** Lachlan-Cope, T.; Ladkin, R.; King, J.

Aircraft observations of the boundary layer in the Antarctic sea ice zone

**P0047;** EMS2007-A-00414

**Velea, L.;** Liberti, G.L.; Sempreviva, A.M.; Transerici, C.

Characterizing PBL at a Mediterranean Coastal Site

**P0048;** EMS2007-A-00003

**Ivanov, V.V.;** Ivanova, E.V.

Long-term tides in the bays, seas and straits of the North-West part of Pacific

**P0049;** EMS2007-A-00010

**Telisman Prtenjak, M.;** Pasaric, Z.; Orlic, M.; Grisono, B.

The rotation rate of the sea/land breeze hodograph along the northern Croatian coast

**P0050;** EMS2007-A-00634

**Soerensen, L.L.;** Christiansen, M.B.; Lund, S.W.; Christensen, L.; Nissen, J.; Pryor, S.; Larsen, S.E.; Broe, B.

Air-Sea exchange of CO<sub>2</sub> and particles along the Galathea route, a cruise around the world

**P0051;** EMS2007-A-00585

**Pezza, A.B.;** Simmonds, I.; **Gimeno, L.**

South Atlantic hurricane Catarina and recent advancements on the understanding of transition mechanisms

**P0052;** EMS2007-A-00520

**Azorin-Molina, C.;** Chen, D.

Influence of synoptic-scale flow on sea breeze evolution: A study of the dynamics of wind hodographs

**P0053;** EMS2007-A-00459

**Khalil, M.**

Large Eddy Simulation of Neutrally-Stratified Marine Atmospheric Boundary Layer with Wave-Aware Roughness Models

**P0054;** EMS2007-A-00255

**Kugler, Sz.;** **Horváth, L.;** Lewandowska, A.

Measurement and modelling of the exchange of ammonia gas between atmosphere and aquatic ecosystems

**P0055;** EMS2007-A-00119

**Taboada, I.;** Alvarez, I.; DeCastro, M.; Gomez-Gesteira, M.

Ekman transport analysis along the Galician Coast (NW Spain) using wind data from the MM5 numerical model

**P0056;** EMS2007-A-00118

**Alvarez, I.;** Gomez-Gesteira, M.; DeCastro, M.

Upwelling conditions along the Galician Coast (NW Spain) during the last six years (2000–2005)

**P0057;** EMS2007-A-00023

**Iglesias, I.;** Lorenzo, M.N.; Taboada, J.J.; Gómez-Gesteira, M.

Influence of the North Atlantic sea surface temperature on the winter rainfall and river flow regimes in NW of Iberian Peninsula

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**AW4 Modelling, forecasting and validation of Small-scale Processes in Atmospheric Models – Posters**

Convener: Holtslag, B.

Co-Convener(s): Steeneveld, G., Heus, T.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0058;** EMS2007-A-00161

**Sogachev, A.;** Vesala, T.; Olchev, A.; Radler, K.; Panferov, O.

Air flow over a small clear-cutting area in a spruce forest: results of modelling study

**P0059;** EMS2007-A-00309

**Cano, D.;** Cano, J.L.

Modelization of the turbulent flows using turbulent vorticity

**P0060;** EMS2007-A-00382

**López González-Nieto, P.;** Cano Marchante, J.L.; Tijera Carrión, M.; Cano Villaverde, D.

Time evolution of Thorpe scale, Ozmidov scale and turbulent dissipation rate corresponding to PBL data

**P0061;** EMS2007-A-00623

**Schröter, J.S.**

Exploring the potential of mass flux concepts for momentum transport in the dry convective boundary layer

**P0062;** EMS2007-A-00253

**Cuxart, J.;** Mira, A.; Jiménez, M.A.; Martínez, D.

Mesoscale nocturnal low-level circulations in the Duero Basin

**P0063;** EMS2007-A-00187

**Warner, T.;** Hahmann, A.; Rostkier-Edelstein, D.; Swerdlin, S.  
Climate downscaling for the eastern Mediterranean region using the MM5 mesoscale model

**P0064;** EMS2007-A-00172

**Baas, P.;** Bosveld, F.C.; Klein Baltink, H.  
A Climatology of Nocturnal Low-Level Jets at Cabauw

**P0065;** EMS2007-A-00095

**Hurtalova, T.;** Matejka, F.; Janous, D.; Pokorny, R.; Roznovsky, J.  
Aerodynamic characteristics of spruce stand influenced by snow damage

**P0066;** EMS2007-A-00365

**Hosek, J.;** Pop, L.; Chladova, Z.  
Modelling of wind speed profiles in complex terrain and comparison with sodar measurements

**P0067;** EMS2007-A-00375

**Drvar, D.;** Cedilnik, J.; Tudor, M.  
Testing of the new precipitation scheme in ALADIN

**P0068;** EMS2007-A-00384

**Santiago, J.L.;** Martilli, A.  
Analysis of spatial average properties of the turbulent flow over an urban configuration (MUST field experiment) using RANS simulations

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## **AW6.1 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, 13:30–Friday, 13:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: PIRINGER, M.

**P0001;** EMS2007-A-00460

**Petzoldt, K.;** Nedelec, P.; Sauter, T.; Schneider, C.; Smit, H.; Thomas, K.; Thouret, V.; **Volz-Thomas, A.;** Wahner, A.  
Regular vertical profiles of ozone and precursors from MOZAIC for regional air quality

**P0002;** EMS2007-A-00570

**Cabello, M.;** Orza, J.A.G.; Galiano, V.; Ruiz, G.  
Influence of the meteorological datasets on the backtrajectory cluster analysis. A 7-year study in SE Spain

**P0003;** EMS2007-A-00562

**Cabello, M.;** **Orza, J.A.G.;** Galiano, V.  
Air mass origin and its influence over the aerosol size distribution: a study in SE Spain

**P0004;** EMS2007-A-00132

**Salvador, P.;** Artíñano, B.  
The use of backward trajectories to characterize long-range transport episodes of particulate matter in the center of the Iberian Peninsula

**P0005;** EMS2007-A-00026

**Mahura, A.;** Korsholm, U.; **Baklanov, A.;** Rasmussen, A.  
Contribution of remote sources in elevated birch pollen events in Denmark

**P0006;** EMS2007-A-00121

**Castell, N.;** Salvador, R.; Stein, A.; Mantilla, E.; Millán, M.  
The impact of biogenic VOC emissions on photochemical ozone formation in a high ozone pollution episode in the Iberian Peninsula for the 2003 summer season

**P0007;** EMS2007-A-00122

**Castell, N.;** Stein, A.; Salvador, R.; Mantilla, E.; Millán, M.  
Sensitivity analysis of tropospheric ozone to modified initial and boundary conditions in both rural and industrial zones

**P0008;** EMS2007-A-00123

**Adame, J.A.;** Bolívar, J.P.; De la Morena, B.A.  
Influence of surface meteorological parameters in the ozone concentrations measured at El Arenosillo (Spain)

**P0009;** EMS2007-A-00114

**Antón, M.;** Serrano, A.; Cancillo, M.L.; García, J.A.; Acero, F.J.  
Analysis of UV radiation values during a low ozone episode over Extremadura (Spain) in January 2006

**P0010;** EMS2007-A-00583

**Marrero, C.;** **Milford, C.;** Martin, C.; Bustos, J.J.; Querol, X.  
A system for forecasting air pollution episode potential in the Canary Islands

**P0011;** EMS2007-A-00341

**Castell, N.;** Salvador, R.; Mantilla, E.; Millán, M.  
A strategy for impact assessment using air quality models: an application in the Iberian Peninsula

**P0012;** EMS2007-A-00343

**Osrodka, L.;** **Krajny, E.;** Wojtylak, M.; Klejnowski, K.; Wojtek, K.  
Air Quality Prediction System in Silesian Voivodship in the southern Poland

**P0013;** EMS2007-A-00396

**Necula, C.;** Stefan, S.; Dima, M.  
Spectral Analysis of Total Suspended Particles in connection with air circulation over south-eastern part of Europe

**P0014;** EMS2007-A-00504

**Stefan, S.;** Nicolae, D.; Talianu, C.; Nemuc, A.  
Saharan Dust Intrusion over Romania, a case study

**P0015;** EMS2007-A-00108

**Alonso-Pérez, S.;** Cuevas, E.; Querol, X.; Guerra, J.C.  
African dust outbreaks over the Canary Islands. Impact, dust sources areas and meteorological scenarios

**P0016;** EMS2007-A-00428

**Hosek, J.;**  
Radiation balance model and roughness length parameter for the Prague region

**P0017;** EMS2007-A-00489

**Putz, E.;** Gonzi, S.; Weihs, P.; Simic, S.; Laube, W.; Blumthaler, M.; Kreuter, A.; Schmalwieser, A.  
Aerosol optical properties in the UV, its influence on radiation and health-risk effects

**P0018;** EMS2007-A-00274

**Silva, S.;** Cavalcanti, C.; Braga, B.; Azevedo, A.  
Evaluating trends in solar radiation based on data fields from the NCEP/NCAR reanalysis and measurements

**P0019;** EMS2007-A-00548

**Silva, S.;** Azevedo, A.; Brito, B.  
Evaluating the urban climate at Campina Grande city, Paraíba, Brazil

**P0020;** EMS2007-A-00087

**Davitashvili, T.;**  
On air pollution problems of Tbilisi in areas with heavy traffic

**P0021;** EMS2007-A-00373

**Juhász, Á.;** Czender, Cs.; Komjáthy, E.; Antal, K.; Mészáros, R.; Lagzi, I.; Vincze, Cs.; Szinyei, D.  
Current state of the TREX deposition model and the main line of the further development

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**AW6.2 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, 13:30–Friday, 13:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: JOFFRE, S.

**P0022;** EMS2007-A-00423

**Thomas, K.;** Kunz, A.; Paetz, H.W.; Schultz, M.; Smit, H.; Volz-Thomas, A.; Cammas, J.P.; Nedelec, P.; Thouret, V.  
Trace gas fields from MOZAIC for global model evaluation

**P0023;** EMS2007-A-00032

**Taboada, I.;** Nieto, R.; Gimeno, L.; Trigo, R.; de la Torre, L.; Añel, J.  
Sources of moisture for four ice cores in the Antarctica

**P0024;** EMS2007-A-00380

**Sanz Díaz, A.;** **Alonso Lasheras, O.**  
The Nowcasting Satellite Application Facility (NWC SAF)

**P0025;** EMS2007-A-00387

**Santos Atienza, I.;** **Alonso Lasheras, O.**  
Deployment of a Flash Flood Early Warning Service in Spain

**P0026;** EMS2007-A-00005

**Mittal, R.;** Sharma, O.P.; Upadhyaya, H.C.  
A new shallow water model for high resolution global models based on geodesic grids

**10:15–10:30;** EMS2007-A-00332

**Mateescu, E.;** Turcu, V.E.; Poiana, I.  
The Impact of Drought and Heat Waves on Romanian Agriculture

**10:30** Coffee Break

Chairperson: LALIC, B.

**11:30–11:45;** EMS2007-A-00120

**Vijaya Kumar, P.;** Osman, M.; Kishra, P.K.  
Drought Severity Index-a new method devised for categorizing drought severity in Andhra Pradesh, India

**11:45–12:00;** EMS2007-A-00273

**Silva, S.;** Campos, C.; Azevedo, A.; Silva, S.  
Water-use efficiency of mango orchard grown in a semi-arid environment

**12:00–12:15;** EMS2007-A-00621

**Brechler, J.;** Novakova, K.; Benes, L.  
Pollen grains transport and dispersion – comparison of numerical simulation and field experiment

**12:15–12:30;** EMS2007-A-00624

**Sivertsen, T.H.**  
Discussing the Concepts of 'Sustainability' and 'Sustainable Agriculture'

**12:30–12:45;** EMS2007-A-00278

**Sammis, T. W.;** Bathke, D.; **Doesken, N.**  
A new community collaborative rain, hail and snow network in the United States (cancelled)

**12:45** END OF SESSION

**AW8 Agrometeorology**

Convener: Lalic, B.

Co-Convener(s): Koch, E., Sivertsen, T.

Lecture Room: Pacifico

Chairperson: KOCH, E.

**8:30–9:00;** EMS2007-A-00086

**Koch, E.;** Dittmann, E.; Lipa, W.; Menzel, A.; Nevokar, J.; v.Vliet, A.  
COST725 Establishing a European phenological database for climatological applications: overview and first results (solicited)

**9:00–9:15;** EMS2007-A-00299

**Bonamano, A.;** Borin, M.  
Veneto phenological network: an example of characterization long term trend in maize

**9:15–9:30;** EMS2007-A-00323

**Nejedlik, P.;** Nekovar, J.; Stastny, P.  
The onset of the vegetation period and the start of selected phenological phases in East Czech and North Carpathian region

**9:30–9:45;** EMS2007-A-00364

**Nekovář, J.;** **Hájková, L.**  
Selected phenophase entrance days-comparison between mean value 1992–2006 & 2007

**9:45–10:00;** EMS2007-A-00330

**Turcu, V.E.;** Mateescu, E.  
Seasonal Changes in Crop Phenology and Crop Water Requirements during Extremely Dry Years and Effects on the Yield Production

**10:00–10:15;** EMS2007-A-00603

**Romanovskaja, D.;** Baksiene, E.  
The impact of thermal regime upon the beginning of apple-tree (*Malus domestica* Borkh.) flowering in Lithuania

**AW8 Agrometeorology – Posters**

Convener: Lalic, B.

Co-Convener(s): Koch, E., Sivertsen, T.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: LALIC, B.

**P0069;** EMS2007-A-00048

**Estévez, J.;** Gavilán, P.  
Assessing the impact of climate variables on reference evapotranspiration in Southern Spain

**P0070;** EMS2007-A-00076

**Gavilán, P.;** Estévez, J.  
Standardized reference evapotranspiration in Southern Spain at different computational timesteps

**P0071;** EMS2007-A-00394

**Hlavinka, P.;** Trnka, M.; Bartošová, L.; Bálek, J.; Pokorný, E.; Kapler, P.; Dubrovský, M.; Svoboda, M.; Eitzinger, J.; Možný, M.  
Modelling of the Soil Moisture and Temperature Regimes in central Europe and Central US

**P0072;** EMS2007-A-00400

**Hlavinka, P.;** Trnka, M.; Dubrovský, M.; Semerádová, D.; Žalud, Z.; Možný, M.; Rischbeck, P.  
Relationship between Agricultural Drought and Yields of Selected Crops at Regional Scale within the Czech Republic

**P0073;** EMS2007-A-00179

**Landeras, G.;** Ortiz-Barredo, A.; López, J.J.  
Comparison of the performance of artificial neural networks and conventional equations for daily reference evapotranspiration estimation in the region of Álava (Northern Spain)

**P0074;** EMS2007-A-00200

**Pereira, F.;** Valente, F.; Gazarini, L.C.; David, J.S.  
Aerodynamic conductances in a sparse mixed oak woodland  
(*Quercus rotundifolia* Lam. and *Quercus suber* L.)

**P0075;** EMS2007-A-00318

**Dubrovsky, M.;** Trnka, M.; Rouget, F.; Hlavinka, P.  
Comparison of two interpolation methods for modelling  
crop yields in ungauged locations

**P0076;** EMS2007-A-00385

**Trnka, M.;** Štípanek, P.; Dubrovský, M.; Semerádová, D.;  
Eitzinger, J.; Formayer, H.; Žalud, Z.; Možný, M.  
Expected change of the Key Agrometeorological Parameters  
in the Central Europe between 2025 and 2050

**P0077;** EMS2007-A-00393

**Trnka, M.;** Hlavinka, P.; Kocmánková, E.; Eitzinger, J.;  
Formayer, H.; Ruget, F.; Žalud, Z.  
Evaluation and Agrometeorological Application of a Snow  
Cover Model

**P0078;** EMS2007-A-00391

**Kocmánková, E.;** Trnka, M.; Žalud, Z.; Semerádová, D.;  
Dubrovský, M.; Muška, F.  
Impact of Change Climate Conditions on the Climate Niches  
of Colorado Potato Beetle and Potato Late Blight in Central  
Europe

**P0079;** EMS2007-A-00505

**Courault, D.;** Ruget, F.; Weiss, M.; Bertrand, N.; Des-  
fonds, V.; Hagolle, O.; Kazempour, F.; Bsaibes, A.;  
Sappe, G.; Marloie, O.  
Analysis of the crop functioning at the scale of a small  
agricultural region using remote sensing data and a crop  
model

**P0080;** EMS2007-A-00532

**Bartholy, J.;** Pongrácz, R.; Gelybó, G.Y.  
Comparison of agriculture-related climate mean and ex-  
tremes for the 20th and the 21st centuries for the Carpathian  
basin

**P0081;** EMS2007-A-00674

**Koch, E.;** Neumcke, R.; Lipa, W.  
Austrian phenology on the web:  
[www.zamg.ac.at/phaenologie](http://www.zamg.ac.at/phaenologie)

**P0082;** EMS2007-A-00241

**Grišule, G.;** Briede, A.  
Character of phenological records regarding to climate  
variability in Latvia

**P0083;** EMS2007-A-00249

Cara-García, J.A.; Ruiz-López, C.; **Mestre-Barceló, A.**  
Description of type states of spring phases in some stone  
fruit-trees (cherry-tree, prune-tree and peach-tree) based on  
the BBCH code

**P0084;** EMS2007-A-00319

**Wielgolaski, F.E.**  
Agrophenology in Norway

**P0085;** EMS2007-A-00326

Cara-García, J.A.; Ruiz-López, C.; **Mestre-Barceló, A.**  
Description of type states of spring phases in some pip  
fruit-trees (apple-tree and pear-tree) based on the BBCH  
code

**P0086;** EMS2007-A-00219

Cane, D.; Ciccarelli, N.; Gottero, F.; Francesetti, A.;  
Pelfini, F.  
Fire Weather Index application in North-Western Italy

**P0087;** EMS2007-A-00508

Delfosse, P.; El Jarroudi, M.; **Görgen, K.;** Vrancken, C.;  
Hoffmann, L.; Maraite, H.; Pfister, L.  
Operational application and validation of the disease risk  
forecast model PROCULTURE to optimize fungicides spray  
in the control of septoria leaf blotch disease in winter wheat  
in Luxembourg

**P0088;** EMS2007-A-00613

**Mestre, A.;** Allué, M.; Peral, C.; Lazcano, M.  
Improving the INM meteorological support for wildfire  
prevention and fighting in Spain

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## Forecasting the Weather from one day to one year ahead

**FW1 THORPEX - "The dynamics and predictability of  
high impact weather"**

Convener: Parsons, D.  
Co-Convener(s): Burridge, D., Paccagnella, T.  
Lecture Room: America  
Chairperson: N.N.

**8:30–9:00;** EMS2007-A-00117

**Davies, H.C.**  
THORPEX: A Refuge for Research or the Future of Fore-  
casting (solicited)

**9:00–9:15;** EMS2007-A-00515

**Hansen, J.;** Cofino, A.; Doyle, C.; Majumdar, S.  
Early and envisioned research uses of the TIGGE data sets  
(solicited)

**9:15–9:45;** EMS2007-A-00687

**Ehrendorfer, M.**  
Ensemble Prediction – Methods and Large-Scale Implemen-  
tation (solicited)

**9:45–10:00;** EMS2007-A-00688

**Bougeault, P.**  
Towards a global interactive forecasting system: The TIGGE  
project of THORPEX (solicited)

**10:00–10:15;** EMS2007-A-00638

**Paccagnella, T.**  
High impact weather Prediction by LAM EPS

**10:15–10:30;** EMS2007-A-00126

**Garcia-Moya, J.A.;** Callado, A.; Santos, C.; Santos-  
Muñoz, D.; Simarro, J.  
Multimodel Ensemble for Short-Range Predictability

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**10:30** Coffee Break

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Chairperson: N.N.

**11:30–11:45;** EMS2007-A-00168

**Montani, A.;** Marsigli, C.; Paccagnella, T.  
Five years of operational limited-area ensemble activities at  
ARPA-SIM: the COSMO-LEPS system

**11:45–12:00;** EMS2007-A-00170

**Anwender, D.;** Leutbecher, M.; Jones, S.; Harr, P.  
Extratropical transition in ECMWF ensemble forecasts: case  
studies and sensitivity experiments

**12:00–12:15;** EMS2007-A-00207

**Titley (nee Watkin), H.;** Swinbank, R.; Hewson, T.  
Predicting high-impact weather using medium-range ensem-  
ble forecasts

**12:15–12:30;** EMS2007-A-00232  
**Santos, C.;** Callado, A.; García-Moya, J.A.; Santos-Muñoz, D.; Simarro, J.  
 Performance of INM Short-Range Multi-model Ensemble using high resolution precipitation observations

**12:30–12:45;** EMS2007-A-00311  
**Kilpinen, J.**  
 Comparison of the wind speed forecast from global and limited area ensemble prediction systems

**12:45–13:00;** EMS2007-A-00449  
**Gomez, B.;** Balseiro, C.F.; Penabad, E.; Perez-Muñuzuri, V.  
 Improvements on a limited area parameterization ensemble forecasting system. From one to several boundary conditions

**13:00–13:15;** EMS2007-A-00471  
**Marsigli, C.;** Montani, A.; Paccagnella, T.  
 A multi-boundary model-perturbed limited-area ensemble system for the short-range

**13:15–13:30;** EMS2007-A-00689  
**Wu, C.C.;** Chou, K.-H.; Chen, J.-H.; Lin, P.-H.  
 Targeted Observations of Typhoons in DOTSTAR (solicited)

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**13:30 Lunch**

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Chairperson: N.N.

**15:00–15:15;** EMS2007-A-00552  
**Charron, M.;** Li, X.; Pellerin, G.  
 Comparison of two different lateral boundary and initial condition perturbation strategies for regional ensemble prediction systems

**15:15–15:30;** EMS2007-A-00483  
**Montroty, R.;** Rabier, F.; Westrelin, S.; Faure, G.  
 Impact of various observational datasets on the assimilation and forecast of tropical cyclones (solicited)

**15:30–15:45;** EMS2007-A-00140  
**Anthes, R.;** Kuo, Y.-H.; Rocken, C.  
 The COSMIC/FORMOSAT-3 mission: Early results for weather prediction and climate

**15:45–16:00;** EMS2007-A-00300  
**Hagel, E.**  
 Singular vectors computed with the ALADIN limited area model - preliminary results

**16:00–16:15;** EMS2007-A-00040  
**Pokrovsky, O.**  
 The impact study for the Northern Asia

**16:15–16:30;** EMS2007-A-00221  
**Pradier-Vabre, S.;** Caumont, O.; Jaubert, G.; Ducrocq, V.  
 Impact of radar reflectivity data assimilation on heavy precipitation events forecast

**16:30–16:45;** EMS2007-A-00553  
**Pellerin, S.;** Laroche, S.; Morneau, J.; Tanguay, M.; Caron, J.-F.  
 Estimation of observation impact on forecast error reduction using the dual formulation of the EC operational 4D-Var

**16:45–17:00;** EMS2007-A-00399  
 Gustafsson, N.; **Thorsteinsson, S.**  
 Statistical balance of moisture variable

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**17:00 Coffee Break**

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Chairperson: N.N.

**17:30–17:45;** EMS2007-A-00494  
**Wernli, H.;** Szunyogh, I.  
 Key topics of current research on predictability and dynamical processes (solicited)

**17:45–18:15;** EMS2007-A-00690  
**Weisman, M.;** Wang, W.; Davis, C.  
 Experiences with realtime explicit convective forecasts with WRF-ARW over the Central US during the 2003–2007 spring and summer seasons (solicited)

**18:15–18:45;** EMS2007-A-00691  
**Ruti, P.M.;** Afiesimama, E.; Jones, S.; Lafore, J.-P.; Thorncroft, C.  
 High impact weather prediction and predictability for the West African Monsoon (solicited)

**18:45–19:00;** EMS2007-A-00692  
**Eludoyin, A.O.;** Akinbode, O.M.; Okuku, E.  
 Combating Flood Crisis with Geographic Information System (GIS): An Example from Akure, Southwest Nigeria

**19:00–19:15;** EMS2007-A-00693  
**Sonechkin, D.**  
 The synchronization phenomena in the actual and forecasted H500 fields

**19:15–19:30;** EMS2007-A-00454  
**Gan, M.A.;** Piva, E.; Rao, V.B.  
 A climate study of 500-hPa moving troughs in the Southern Hemisphere

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**19:30 END OF SESSION**

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## Meteorology and Society

### MS1 Media and Communication – Posters

Convener: Cegnar, T.  
 Co-Convener(s): Fleming, G.  
 Display Time: Monday, 13:30–Wednesday, 19:30  
**Authors in Attendance: Tuesday, 10:30–11:30**  
 Poster Area Los Infantes  
 Chairperson: N.N.

**P0131;** EMS2007-A-00228  
**Hygen, H.O.;** Haaland, S.  
 Ekstremværuka 06: One week of extreme weather information, list of programs and their weather focus

### MS5 Gender Equality

*Open to all conference participants*

Convener: Stoll, M.  
 Co-Convener(s): Huebener, H.  
 Lecture Room: Pacifico  
 Chairperson: STOLL, M.

**14:45–15:15;** EMS2007-A-00652  
**Kootval, H.;** Carrieri, M.  
 WMO Policy on gender mainstreaming (solicited)

**15:15–15:30;** EMS2007-A-00626  
**Namodji, L.**  
 Meteorology and society : specific case of Chad

15:30–15:45; EMS2007-A-00729

**Stan-Sion, A.**

Gender Access in Science @ Equal Terms – Training and Learning Experiences

15:45–16:00; EMS2007-A-00644

Rudolf, P.

Women in physics

16:00–16:15; EMS2007-A-00237

**Huebener, H.**

Is career a male thing?

16:15–16:30; EMS2007-A-00630

**Stoll, M.**

“Conjuguer X & Y”: towards the gender mainstreaming in Météo France

16:30–17:00; EMS2007-A-00280

**Goodess, C.M.**

Networking and gender action plans – the solutions to all our problems? (solicited)

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17:00 END OF SESSION

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### MS7 Strategies for the use of the Internet

Convener: Verbeek, K.

Lecture Room: Pacifico

Chairperson: VERBEEK, K.

17:30–18:00 T. Molina

18:00–18:15; EMS2007-A-00302

**Hygen, H.O.;** Engeset, R.

SeNorge.no: Collaboration to ease information access

18:15–18:45; EMS2007-A-00078

**Kroonenberg, F.C.**

Meteoalarm the internet gateway to inform European citizens on severe weather (solicited)

18:45–19:00; EMS2007-A-00490

**Ploski, J.;** Petroliagis, T.; Hasselbring, W.

Implementing the Weather Research & Forecasting Model on the German Grid

19:00–19:30; EMS2007-A-00719

**Ellis, P.**

Moving Technology Forward in a Commercial Internet Environment (solicited)

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19:30 END OF SESSION

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### MS7 Strategies for the use of the Internet – Posters

Convener: Verbeek, K.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Tuesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0139;** EMS2007-A-00301

**Agersten, S.;** Hygen, H.O.

Meteorologforeningen.no:

Norwegian meteorological Society’s attempt to ease the access to meteorological information and discussions

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# MEETING PROGRAMME

## WEDNESDAY

Wednesday, 3 October 2007			Indico	Pacifico
Europa	America			
<b>MS2:</b> Meteorological knowledge and decision making processes	<b>FW1:</b> THORPEX – 5		<b>AW13:</b> Spatial information	
A-00047: <b>Pettifer, R</b>	A-00153: <b>Wernli, H</b>		A-00650: <b>Leskinen, L</b>	
A-00478: <b>Roulet, Y-A</b>	A-00222: <b>Ducrocq, V</b>		A-00673: <b>Baudouin, R</b>	
A-00500: <b>Prieto, R</b>	A-00434: <b>Genovés, A</b>		A-00403: <b>San-Martin, D</b>	
A-00181: <b>Ravenel, H</b>	A-00178: <b>Cardinali, C</b>		A-00420: <b>Fernandez-Quiruelas</b>	
A-00229: <b>Steffensen, M</b>	A-00464: <b>Joly, B</b>		A-00007: <b>de Salas, L</b>	
A-00293: <b>Sharman, R</b>	A-00482: <b>Zadra, A</b>		A-00016: <b>Apaydin, H</b>	
A-00350: <b>Popov, Z</b>	A-00034: <b>Nieto, R</b>		A-00267: <b>Ruiz-Arias, JA</b>	
	A-00561: <b>Kristjansson, JE</b>		A-00388: <b>Juriskovska, L</b>	
Satellite Plenary Session				
Introduction: <b>Lars Prahm</b> (Chair), 5 minutes				
<b>Ernst Koenemann</b> , EUMETSAT				
"Application of EUMETSAT Satellites to Observe Weather and Climate"				
<b>Paul Ingmann</b> , ESA				
"The Changing Earth - New scientific challenges for Earth observation"				
<b>Jean-Noël Thépaut</b> , ECMWF				
"The assimilation of satellite data and its use in analysing severe weather systems"				
<b>Alain Podaire</b> , GMES Bureau				
<b>Strategies for the future of meteorology in Europe: Part One</b>			<b>CL2:</b> Climate prediction & projection – 1	
<b>Dominique Marbouty</b> , Director ECMWF			A-00230: <b>Hewitt, CD</b>	
<b>Jean- Pierre Chalon</b> , Coordinating Officer EUMETNET				
<b>Steve Noyes</b> , Director Operations & Customer Service Managem., UKMO			A-00676: <b>Planton, S</b>	
<b>Lars Prahm</b> , Director General EUMETSAT			A-00239: <b>Rodriguez-Camino</b>	
<b>Pirkko Saarikivi</b> , Member of the Board, PRIMET			A-00441: <b>Frei, C</b>	
<b>Ben Dieterink</b> , President HMEI			A-00535: <b>Cardoso, RM</b>	
<b>Tomas Molina</b> , Chairman IABM			A-00551: <b>Ambrizzi, A</b>	
<b>Sylvain Joffre</b> , Chair of Earth System Science Committee, COST			Short poster presentations	
<b>Strategies for the future of meteorology in Europe Part Two</b>			<b>CL2:</b> Climate prediction & projection – 2	
<b>How to further exploit meteorology for the benefit of society in the 21<sup>st</sup> century</b>			A-00605: <b>OrtizBeviá, MJ</b>	
Part Two			A-00093: <b>Thornton, HE</b>	
			A-00283: <b>Goodess, CM</b>	
			A-00386: <b>Gaertner, MA</b>	
			A-00437: <b>Spekat, A</b>	
<b>Panel discussion</b>			A-00355: <b>Dubrovsky, M</b>	
Chair: <b>F. Cadarso</b>			A-00502: <b>Miranda, PMA</b>	
			A-00336: <b>Tzenkova-Bratoeva</b>	
8:30 – 10:30				
11:30 – 13:30				
15:00 – 17:00				
17:30 – 19:30				

## 8th European Conference on Applications of Meteorology (ECAM)

**AM3 ECAM Special Event on "Strategies for the future of meteorology in Europe - how to further exploit meteorology for the benefit of society in the 21st Century"**

Convener: McCallum, E.  
Lecture Room: Auditorio  
Chairperson: BURRIDGE, D.

**15:00–15:15** Dominique Marbouty, Director ECMWF

**15:15–15:30;** Jean-Pierre Chalon, Coordinating Officer EUMETNET

**15:30–15:45** Steven Noyes, Director of Operations and Customer Service Management, UKMO

**15:45–16:00** Lars Prahm, Director General, EUMETSAT

**16:00–16:15** Pirkko Saarikivi, Member of the Board, PRIMET

**16:15–16:30** Ben Dieterink, President HMEI (invited)

**16:30–16:45** Tomas Molina, President IABM

**16:45–17:00** Sylvain Joffre, COST

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**17:00** Coffee Break

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Chairperson: CADARSO, F.

**17:30–19:30** A chaired discussion of the speakers of Part 1 - Interventions from the floor will be welcome

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**19:30** END OF SESSION

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## Atmosphere and the Water Cycle

**AW13/AM2.2 Spatial information and applications in meteorology (joint session)**

Convener: Dolinar, M.  
Co-Convener(s): Dyras, I. (In Memoriam)  
Lecture Room: Indico  
Chairperson: DOLINAR, M.

**8:30–8:45;** EMS2007-A-00650

**Leskinen, L.**

INSPIRE – a directive to support environmental policies in EU (solicited)

**8:45–9:00;** EMS2007-A-00673

**Baudouin, R.**

SIMDAT: Elements for building the WIS

**9:00–9:15;** EMS2007-A-00403

San-Martin, D.; Cofino, A.S.; Gutierrez, J.M.

A web portal for statistical downscaling and datasets access of seasonal forecast based on GRID middleware

**9:15–9:30;** EMS2007-A-00420

**Fernandez-Quiruelas, V.;** Fernandez, J.; Cofino, A.S.; Baeza, C.; Carrillo, M.; Garcia-Torre, F.; San-Martin, R. M.; Abarca del Rio, R.; Gutierrez, J. M.; Mayo, R.

GRID distributed computation of nested climate simulations and data-mining. On behalf of the EELA project

**9:30–9:45;** EMS2007-A-00007

**de Salas, L.;** Carrero, L.; Fernández, J.A.

MAXIN: Gis application to estimate Rainfall Intensity-Duration-Frequency laws in the Spanish peninsular area

**9:45–10:00;** EMS2007-A-00016

**Apaydin, H.;** Ozturk, F.; Anli, A.S.

The relationship between topography and some climate parameters

**10:00–10:15;** EMS2007-A-00267

**Ruiz-Arias, J.A.;** Tovar-Pescador, J.; Sanchez-Sanchez, N.; Al-Sammanra, H.; Luzon, R.; Pozo-Vazquez, D.

ON the use of GIS to improve MM5 solar radiation estimates in complex topography areas

**10:15–10:30;** EMS2007-A-00388

**Jurikovska, L.J.;** Sedenkova, M.S.

Using interpolation methods for precipitation estimation

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**10:30** END OF SESSION

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**AW13/AM2.2 Spatial information and applications in meteorology (joint session) – Posters**

Convener: Dolinar, M.

Co-Convener(s): Dyras, I. (In Memoriam)

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Wednesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: DOLINAR, M.

**P0094;** EMS2007-A-00046

**Gómez, I.;** Pastor, F.; Estrela, M.; Miró, J.; Barberá, M.

Development of a Java-based graphical user interface to control/monitor a real-time forecast and alert system

**P0095;** EMS2007-A-00284

**Closs, J.;** Ritchey, N.; Ferebee, M.

Application of Data Products and Services from the NASA Atmospheric Science Data Center

**P0096;** EMS2007-A-00511

Herrera, S.; Pons, M.; Gutierrez, J.M.; Cofino, A.S.

Development and analysis of a daily high resolution grid over Spain for 1950–2003 period

**P0097;** EMS2007-A-00062

**Vicente-Serrano, S.M.;** Vega-Rodríguez, M.I.; López-Moreno, J.I.; Beguería, S.

Comparison of interpolation procedures to map fog frequency: application in the Aragón region (North-East Spain)

**P0098;** EMS2007-A-00159

Tellez, B.; Cernocky, T.; Terradellas, E.

Calculation of climatic reference values and their use for automatic outlier detection in meteorological datasets

**P0099;** EMS2007-A-00231

Dolinar, M.; **Bertalanì, R.**

Spatial interpolation of Relative Humidity in Slovenia

**P0100;** EMS2007-A-00243

**Duran, L.;** Sánchez, E.

Use of a digital terrain model for air temperature and radiation calculation in an alpine environment

**P0101;** EMS2007-A-00272

**Sanchez-Sanchez, N.;** Pozo-Vazquez, D.; Ruiz-Arias, J.A.; Al-Sammanra, H.; Molina, A.; Tovar-Pescador, J.

An evaluation study of the MM5 solar radiation estimates in a complex-topography area in southeastern Spain

**P0102;** EMS2007-A-00322

**Alsammra, H.;** Ruiz-Arias, J.A.; Sanchez-Sanchez, N.; Pozo-Vazquez, D.; Hernandez-Alvaro, J.; Tovar-Pescador, J.

Mapping Solar Radiation in Southern Spain using ordinary kriging

**P0103;** EMS2007-A-00580

**Percec Tadic, M.**

Drawing monthly temperature maps in complex orography: preparation, challenges and results

**P0104;** EMS2007-A-00632

**Walawender, J.;** Dyras, I.; Lapeta, B.; Serafin-Rek, D.

Qualitative analysis of precipitation distribution in Poland with use of different data sources

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## Forecasting the Weather from one day to one year ahead

**FW1 THORPEX - "The dynamics and predictability of high impact weather"**

Convener: Parsons, D.

Co-Convener(s): Burridge, D., Paccagnella, T.

Lecture Room: America

Chairperson: N.N.

**8:30–8:45;** EMS2007-A-00153

**Wernli, H.**

Dynamical analysis of 5-day ECMWF forecast busts

**8:45–9:00;** EMS2007-A-00222

**Ducrocq, V.;** Drobinski, P.; et al.

HYMEX: an experimental project to improve understanding and forecasting of Mediterranean high-impact weather events

**9:00–9:15;** EMS2007-A-00434

**Genovés, A.;** Picornell, M.A.; Santos, C.; García-Moya, J.A.; Campins, J.; Jansà, A.

Extratropical cyclones tracker. First approach from the INM-SREPS

**9:15–9:30;** EMS2007-A-00178

**Cardinali, C.;** Buizza, R.; Kelly, G.; Thepaut, J.N.; Shapiro, M.

Value of targeting observations

**9:30–9:45;** EMS2007-A-00464

**Joly, B.;** Nuissier, O.; Somot, S.; Ducrocq, V.; Joly, A.

Statistical downscaling of southern France High Precipitating Events synoptic forcing conditions over precipitation patterns in a future climate

**9:45–10:00;** EMS2007-A-00482

**Mahidjiba, A.;** Buehner, M.; **Zadra, A.**

Excitation of Rossby-wave trains associated with high-impact weather: optimal growth of forecast errors

**10:00–10:15;** EMS2007-A-00034

**Nieto, R.;** Gimeno, L.; Lorenzo, N.; Trigo, R.; de la Torre, L. A tri-reanalysis climatology of cut-off low systems occurrence and an exploratory analysis of their predictability using reforecast

**10:15–10:30;** EMS2007-A-00561

**Kristjansson, J.E.;** Shapiro, M.; Petersen, G.N.; Barstad, I.; Olafsson, H.; Johannessen, I.B.; Fore, I.; Moore, K.; Renfrew, I.

The life-cycle of a Greenland lee cyclone observed by aircraft during GFDex

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**10:30** END OF SESSION

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**FW1 THORPEX - "The dynamics and predictability of high impact weather" – Posters**

Convener: Parsons, D.

Co-Convener(s): Burridge, D., Paccagnella, T.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Wednesday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0105;** EMS2007-A-00402

**Böttcher, M.;** Kenzelmann, P.; Wernli, H.

Diabatic Rossby Waves: Aspects of their Dynamics and Climatology

**P0106;** EMS2007-A-00540

**Kristjansson, J.E.;** Thorsteinsson, S.; Kolstad, E.

An unusual polar low development in the lee of Greenland

**P0107;** EMS2007-A-00574

**Cai, X.**

Relationship Between West Pacific Subtropical High and ENSO and Its Influence on Rainfall Distribution of Rainy Season in Fujian

**P0108;** EMS2007-A-00694

**Eludoyin, A.O.;** Akinbode, O.M.; **Ediang, O.A.**

Challenges of River Basin Information System (RBIS) as a Framework for the Assessment and Monitoring of Surface Water in Nigeria

**P0109;** EMS2007-A-00695

**Akinbode, O.M.;** Eludoyin, A.O.; Ediang, O.A.

Impact of urbanisation on the some atmospheric variables in Akure, Ondo State, Nigeria

**P0110;** EMS2007-A-00362

**Santos-Muñoz, D.;** Callado, A.; García-Moya, J.A.; Santos, C.; Simarro, J.

Bayesian Model Averaging of INM-SREPS

**P0111;** EMS2007-A-00722

**Callado, A.;** García-Moya, J.A.; Santos, C.; Santos-Muñoz, D.; Simarro, J.

An hybrid short-range ensemble prediction system

**P0112;** EMS2007-A-00586

**Gavrilov, M.;** **Janjic, Z.;** Jovanovic, G.

The sensitivity of a long-range numerical weather forecasting model

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## Climatology

**CL2 Climate prediction and projection**

Convener: Ceron, J.

Co-Convener(s): Appenzeller, C.

Lecture Room: Indico

Chairperson: N.N.

**15:00–15:30;** EMS2007-A-00230

**Hewitt, C.D.**

Ensemble-based predictions of climate changes and their impacts: progress and plans in the EU ENSEMBLES project (solicited)

**15:30–15:45;** EMS2007-A-00676

**Planton, S.**

Some recent results on climate change projections at the European scale (solicited)

15:45–16:00; EMS2007-A-00239

**Rodríguez-Camino, E.**

Generation of regionalized climate change projections over Spain for impact and adaptation purposes

16:00–16:15; EMS2007-A-00441

**Frei, C.;** Appenzeller, C.

A probabilistic climate change scenario for Switzerland

16:15–16:30; EMS2007-A-00535

**Cardoso, R.M.;** Soares, P.M.

Climate Change Impacts on Atmospheric Summer Circulation in the Iberian Peninsula

16:30–16:45; EMS2007-A-00551

**Reboita, R.;** Rocha, R.; **Ambrizzi, A.**

SST impact on the cyclogenesis simulated by RegCM3 over the South Atlantic

16:45–17:00 Short poster presentations

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17:00 Coffee Break

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Chairperson: N.N.

17:30–17:45; EMS2007-A-00605

**OrtizBeviá, M.J.;** SánchezGómez, E.; Alvarez-García, F.J.

Extremes of temperature and precipitation in Spain in simulations of the climate of the future

17:45–18:00; EMS2007-A-00093

**Thornton, H.E.;** Dempsey, P.; Gallani, M.; Hollis, D.

Climate change and precipitation extremes

18:00–18:15; EMS2007-A-00283

**Goodess, C.M.**

Building climate scenarios - the challenges for the developers and users (solicited)

18:15–18:30; EMS2007-A-00386

**Gaertner, M.A.;** Domínguez, M.; Gil, V.; Sánchez, E.

Analysis of the risk of tropical cyclone development over the Mediterranean Sea under future climate change conditions

18:30–18:45; EMS2007-A-00437

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

Regional climate change scenarios, based on statistical downscaling using the WETTREG model

18:45–19:00; EMS2007-A-00355

**Dubrovsky, M.;** Hayes, M.; Trnka, M.; Svoboda, M.; Wilhite, D.; Zalud, Z.; Semerádova, D.

Projection of future drought conditions in Europe and North America using the relative drought indices and multiple GCMs

19:00–19:15; EMS2007-A-00502

**Miranda, P.M.A.;** Tomé, R.; Tomé, A.; Azevedo, E.; Teixeira, M.; Valente, M.

Assessing climate change in small isolated islands

19:15–19:30; EMS2007-A-00336

**Tzenkova-Bratoeva, A.;** Ivancheva, J.; Alexandrov, V.

Bioclimatic Conditions in Bulgarian Black Seaside in the 21st Century

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19:30 END OF SESSION

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## CL2 Climate prediction and projection – Posters

Convener: Ceron, J.

Co-Convener(s): Appenzeller, C.

Display Time: Monday, 13:30–Wednesday, 19:30

**Authors in Attendance: Wednesday, 17:00–17:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0113;** EMS2007-A-00604

**Rudel, E.;** Matzarakis, A.; Koch, E.

Adaptation of summer tourism in Austria in respect of climate change

**P0114;** EMS2007-A-00080

**Djurdjevic, V.;** Rajkovic, B.

Description of the EBU-POM coupled regional climate model and results from time-slice experiments for Europe region

**P0115;** EMS2007-A-00166

**Sánchez-Laulhé, J.M.;** Jiménez, C.; Sánchez de Cos, C.

Evaluation of soil water budget over the Iberian Peninsula using PRUDENCE regional climate simulations

**P0116;** EMS2007-A-00213

**Castro, M.;** Gallardo-Andrés, C.; Sánchez, E.; Gaertner, M.A.

The use of a climate-type classification for assessing climate change effects in Europe from an ensemble of nine regional climate models

**P0117;** EMS2007-A-00314

**Martín, J. M.**

Assessment of precipitation volumes of the Peninsular Spain rivers basins

**P0118;** EMS2007-A-00325

**Benestad, R.E.;** Tveito, O.E.

Cyclonic precipitation

**P0119;** EMS2007-A-00405

**Nieto, S.;** Rodríguez-Puebla, C.

Large-Scale atmospheric variability over the Euro-Atlantic. Comparison between IPCC models and reanalysis data

**P0120;** EMS2007-A-00486

**Chládová, Z.;** Mikšovský, J.; Pišoft, P.; Raidl, A.

Temperature and Precipitation Changes in the Czech Republic According to Regional Climate Models

**P0121;** EMS2007-A-00513

**Bartholy, J.;** Pongrácz, R.; Gelybó, G.Y.; Szabó, P.; Kern, A.; Torma, C.S.; Hunyady, A.; Kardos, P.

Analysis of regional climate change expected in the Carpathian basin

**P0122;** EMS2007-A-00556

**García-Valero, J.A.;** **Montávez, J.P.;** Jerez, S.; Jiménez, P.A.; González-Rouco, J.F.

Observed and projected precipitation over the Southeast of Spain

**P0123;** EMS2007-A-00549

**Farda, A.;** Skalak, P.; Stepanek, P.

Dynamical downscaling in the Central Europe – very high resolution experiment with Aladin model in climate mode

**P0124;** EMS2007-A-00242

**Petisco, E.**

Use of an analogue method to downscale temperature and precipitation climate change projections over Spain

**P0125;** EMS2007-A-00310  
**Ramos, P.**  
 Regression-based downscaling of extremes temperatures for the Spanish meteorological stations

**P0126;** EMS2007-A-00565  
**Dubrovsky, M.**  
 Towards the probabilistic climate change scenarios for impact studies: linking the weather generator with the GCM-based climate change scenario

**P0127;** EMS2007-A-00022  
 Lorenzo, M.N.; Taboada, J.J.; Iglesias, I.  
 Thermohaline circulation as an example of nonlinear-processes in the climate system

**P0128;** EMS2007-A-00594  
**Ristevski, R.;** Aleksovska, A.  
 Precipitation and potential evapotranspiration in Republic of Macedonia in the 21st century, as a result of climate changes

**P0129;** EMS2007-A-00115  
**Sugimoto, N.;** Tachibana, K.; Buchholz, S.; Shiogama, H.; Nozawa, T.  
 Natural variability visualized by self-organizing map

**P0130;** EMS2007-A-00360  
**Veljovic, K.**  
 The impact of lateral boundary conditions on monthly integrations eta regional model

**9:45–10:00;** EMS2007-A-00293  
**Sharman, R.;** Liu, Y.; Warner, T.; Swerdlin, S.  
 Probabilistic forecasts of coupled applications for decision support of testing events at the U.S. Army test ranges

**10:00–10:15;** EMS2007-A-00350  
**Popov, Z.;** Rajkovic, B.  
 The discussion on the wind power density estimation using the surface synoptic and climatological data

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**10:15 END OF SESSION**

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**MS2 Integrating meteorological information into decision making processes – Posters**

Convener: Meinke, I.  
 Display Time: Monday, 13:30–Wednesday, 19:30  
**Authors in Attendance: Wednesday, 10:30–11:30**  
 Poster Area Los Infantes  
 Chairperson: N.N.

**P0132;** EMS2007-A-00254  
 Carvalheiro, L.; Correia, P.; Chagas, G.; Santana, F.; Costa, P.; Lopes, J.; Garrido, F.; Santos, M.; Manso, M.  
 Applications of meteorology to society: using numerical weather prediction in pigeon racing competitions

**P0133;** EMS2007-A-00629  
**Meinke, I.**  
 The North German Climate Office – An interface between science and practice

**P0134;** EMS2007-A-00135  
**Sallai, M.**  
 The tragical story of the August 20, 2006 severe thunderstorm in Budapest as an example for the importance of the good communication in the disaster management

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## Meteorology and Society

**MS2 Integrating meteorological information into decision making processes**

Convener: Meinke, I.  
 Lecture Room: Europa  
 Chairperson: MEINKE, I

**8:30–8:45;** EMS2007-A-00047  
**Pettifer, R.**  
 Towards a strong European Market in Applied Meteorology

**8:45–9:00;** EMS2007-A-00478  
 Calpini, B.; Bettems, J.-M.; **Roulet, Y.-A.;** Huguenin, P.; Ruffieux, D.  
 Development of a remote sensing meteorological network assimilated to a fine grid NWP model for the nuclear power plants security in Switzerland

**9:00–9:15;** EMS2007-A-00500  
 Prieto, R.; Oropeza, F.  
 Tropical cyclone emergency response system for the oil industry in Mexico

**9:15–9:30;** EMS2007-A-00181  
**Ravenel, H.**  
 Interactions between research and international negotiations: Why and how climate changes become a new prism to look at and to understand the world?

**9:30–9:45;** EMS2007-A-00229  
**Steffensen, M.;** Jørgensen, M.  
 Decision Support for Weather dependent Activities at Outdoor Construction Sites

**MS6 History of Meteorology – Posters**

Convener: Lüdecke, C.  
 Display Time: Monday, 13:30–Wednesday, 19:30  
**Authors in Attendance: Wednesday, 10:30–11:30**  
 Poster Area Los Infantes  
 Chairperson: N.N.

**P0135;** EMS2007-A-00614  
 De Ory, F; **Palomares, M.**  
 Meteorology in times of Philip II

**P0136;** EMS2007-A-00050  
 Kocsis, T.; Bem, J.  
 History of the meteorological measurements at Keszthely, one of the eldest stations in Hungary

**P0137;** EMS2007-A-00527  
 Radics, K.; Péliné, N.Cs.  
 Short history of the Hungarian military meteorology

**P0138;** EMS2007-A-00651  
**Murty, K.S.**  
 Meteorology in the service of Indian Society

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## Special Session

### **SAT1 Satellite Plenary Session: Satellite data for the observation and prediction of weather and climate**

Convener: Prahm, L.

Co-Convener(s): Oriol-Pibernat, E., Accadia, C.

Lecture Room: Auditorio

Chairperson: PRAHM, L.

**11:30–11:35** Introduction of L. Prahm

**11:35–11:55** Ernst Koenemann, EUMETSAT, Head of Program Development Department: "Application of EUMETSAT Satellites to Observe Weather and Climate"

**11:55–12:15** Paul Ingmann, Head of Atmospheric Unit, Mission Science Division EO Science, Applications & Future Technologies Department Directorate of Earth Observation Programmes: "The Changing Earth - New scientific challenges for Earth observation"

**12:15–12:35** Jean-Noël Thépaut, Head of the Satellite Section, ECMWF: "The assimilation of satellite data and its use in analysing severe weather systems"

**12:35–12:55** Alain Podaire, GMES Bureau

**12:55–13:30** Discussion

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**13:30** END OF SESSION

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# MEETING PROGRAMME

## THURSDAY

Thursday, 4 October 2007			
Europa	America	Indico	Pacífico
<b>AW12/AMI.5:</b> Aviation Meteorology -1	<b>CL2:</b> Climate prediction & projection - 3	<b>AW1:</b> Dynamical Meteorology	<b>AW9:</b> Sub-atmospheric boundary conditions
A-00461: Haman, KE	A-00347: Hosepuyan, H	A-00116: Sugimoto, N	A-00419: Gualtieri, C
A-00361: Gkinis, V	A-00456: Leckebusch, GC	A-00620: Huebener, H	
A-00409: Smit, HG	A-00334: Della-Marta, PM	A-00514: de la Cámara, A	A-00113: Mihailovic, DT
A-00061: Drüe, C	A-00366: Frias, MD	A-00563: Serrano, E	A-00625: Sivertsen, TH
A-00052: vd Kroonenberg, AC	A-00112: Appenzeller, C	A-00732: Wang, Y	A-00081: Rajkovic, B
A-00338: Lebot, C	A-00368: Sordo, CM	A-00353: Spengler, T	A-00609: Gualtieri, C
A-00498: Torres, L	A-00498: Torres, L	A-00354: Campa, J	A-00616: Mihailovic, DT
Short poster presentations		A-00238: Rudeva, I	A-00234: Cirisan, A
<b>AW12/AMI.5:</b> Aviation Meteorology -2	<b>CL1:</b> Climate change & variability - 1	<b>AW7:</b> Hydrometeorology	<b>MS3:</b> Education in atmospheric & related sciences
A-00479: Pradier-Vabre, S	A-00085: García-Herrera, R	A-00728: Sorani, R	A-00636: Halenka, T
A-00359: Liechti, O	A-00104: Wheeler, D	A-00259: Arpagaus, M	A-00154: Karppanen, J
A-00294: Sharman, R	A-00236: Brazdil, R	A-00572: Maitaria, K	
A-00158: Cano, D	A-00675: Klok, E	A-00421: Bremnes, JB	A-00101: Vazquez, R
A-00147: Bakowski, R	A-00149: Valente, MA	A-00590: Lloret, X	A-00534: Billard, C
A-00608: Krovalla, K	A-00051: Auer, I	A-00224: Bouilloud, L	
A-00597: Maat, N	A-00595: Cappelen, J	A-00102: Renard, F	A-00212: Traveria, M
A-00124: Horstink, L		A-00643: García, NO	A-00303: Hygen, HO
			A-00730: Stan-Sion, A
<b>FW2</b> High resolution forecasting systems	<b>CL1:</b> Climate change & variability -2	<b>AW6.2:</b> Environm. Meteorology - Monitoring & Forecasting	<b>AW5:</b> Atmospheric hazards -1
A-00467: Bornemann, F	A-00092: Rebetez, M	A-00167: Uppala, S	A-00291: Lane, T
A-00262: Santos-Muñoz, D		A-00431: Volz-Thomas, A	A-00039: Vazquez, R
A-00427: Göber, M	A-00209: Ramos, AM	A-00442: Cheremisin, A	A-00392: Cuevas Tascón, G
A-00171: Mittermaier, M	A-00071: Cony, M	A-00292: Belda, F	A-00569: Morales, CA
A-00045: Estrela, M	A-00401: Huth, R	A-00633: Halenka, T	A-00184: Giaiotti, D
A-00453: Spreitzhofer, G	A-00411: Shmakin, AB	A-00397: Baldasano, JM	A-00069: Jorba, O
A-00276: Boniface, K	A-00305: Cheval, S	A-00599: Pessanha, L	A-00492: Prieto, R
A-00277: De Haan, S	A-00681: Philipona, R	A-00436: Teichmann, C	A-00562: Miguez-Macho, G
<b>FW4:</b> Verification - 1	<b>CL1:</b> Climate change & variability -3	<b>AW6.1:</b> Environm. Meteorology - Atmospheric Pollution - 1	<b>AW5:</b> Atmospheric hazards -2
A-00173: Mittermaier, M	A-00418: Stepanek, P	A-00472: Piringer, M	A-00529: Savvidou, K
A-00177: Wilson, C	A-00331: Della-Marta, PM	A-00223: Hidalgo, J	A-00573: Gaia, M
A-00493: Roberts, NM	A-00477: Bojariu, R	A-00618: Brechler, J	A-00470: Dotzek, N
A-00175: Wernli, H	A-00564: Alvarez-García, F	A-00265: Belusic, D	A-00185: Giaiotti, D
A-00476: Kalin, L	A-00496: Dutra, E	A-00395: Weidinger, T	A-00415: Stel, F
A-00577: Ahrens, B	A-00001: Quiroga, S	A-00404: Mole, N	A-00263: Nieckarz, Z
A-00495: Van Weverberg, K	A-00008: Alcinova Monevska S	A-00295: Sharman, R	
A-00497: Casati, B	A-00484: Stastny, P	A-00227: Quante, M	

8:30 - 10:30

11:30 - 13:30

15:00 - 17:00

17:30 - 19:30

# Atmosphere and the Water Cycle

## AW1 Dynamical Meteorology

Convener: Fraedrich, K.  
Co-Convener(s): Ruti, P., Lunkeit, F.  
Lecture Room: Indico  
Chairperson: FRAEDRICH, K.

**8:30–8:45;** EMS2007-A-00116

**Sugimoto, N.;** Ishii, K.  
Numerical investigation on spontaneous gravity wave radiation from an unsteady jet in a rotating spherical shallow water

**8:45–9:00;** EMS2007-A-00620

**Huebener, H.;** Spanghel, T.; Baudoin, A.; Cubasch, U.  
Comparing ENSEMBLES models with different resolution of the stratosphere in climate simulations

**9:00–9:15;** EMS2007-A-00514

**de la Cámara, A.;** Serrano, E.; Mechoso, C.R.  
Winter stratosphere-troposphere system and precipitation over Europe

**9:15–9:30;** EMS2007-A-00563

**Ayarzagüena, B.;** **Serrano, E.;** de la Cámara, A.  
Variations in the timing of the stratospheric final warmings and its dynamical effects on spring tropospheric conditions over Europe

**9:30–9:45;** EMS2007-A-00732

**Wang, Y.;** Yamazaki, K.; Fujiyoshi, Y.  
The Interaction Between Two Separate Propagations of Rossby Waves

**9:45–10:00;** EMS2007-A-00353

**Spengler, T.;** Campa, J.; Davies, H.C.  
Impacts of forced sub-tropical waves on extra-tropical flow: Theory and Model Simulations

**10:00–10:15;** EMS2007-A-00354

**Campa, J.;** Spengler, T.; Davies, H.C.  
Mid-latitude response to stationary and non-stationary tropical heating

**10:15–10:30;** EMS2007-A-00238

**Rudeva, I.;** Gulev, S.K.  
Northern Hemisphere mid latitudinal cyclones: geometry, composites and insights for air-sea interaction

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**10:30** END OF SESSION

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## AW1 Dynamical Meteorology – Posters

Convener: Fraedrich, K.  
Co-Convener(s): Ruti, P., Lunkeit, F.  
Display Time: Thursday, 08:30–Friday, 13:30  
**Authors in Attendance: Thursday, 10:30–11:30**  
Poster Area Los Infantes  
Chairperson: RUTI, P.

**P0027;** EMS2007-A-00017

**Sancho, P.;** Ortiz de Galisteo, J.P.  
Predictability in time-dependent scenarios, a toy model

**P0028;** EMS2007-A-00021

**Tesouro, M.;** Ribera, P.; Gallego, D.; de la Torre, L.; Gimeno, L.  
Climatic analysis of the conceptual model of cold air development

**P0029;** EMS2007-A-00315

Weidle, F.; **Wernli, H.**  
The Sting Jet Hypothesis: A Case Study with the COSMO-Model

**P0030;** EMS2007-A-00162

**Syrakov, E.**  
Regimes of baroclinic instability, caused by orographic-thermally induced vertical motions in PBL

**P0031;** EMS2007-A-00356

**Spengler, T.;** Smith, R.K.  
Balance and Imbalance in Heat Lows

**P0032;** EMS2007-A-00151

**Arsenic, I.;** Mihailovic, D.T.; Rajkovic, B.  
1-D Single Level Primitive Equation Model With Pure Lagrangian (L4E) Advection Scheme

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## AW5 Atmospheric Hazards

Convener: Stel, F.  
Co-Convener(s): Giaiotti, D.  
Lecture Room: Pacifico  
Chairperson: GIAIOTTI, D.B.

**15:00–15:15;** EMS2007-A-00291

**Sharman, R.;** **Lane, T.**  
Aviation hazards associated with convectively-induced gravity wave breaking above deep convection: Some influences of environmental flow conditions

**15:15–15:30;** EMS2007-A-00039

**Vazquez, R.**  
Analysis of the preconvective environment and monitoring of two severe weather events that produced supercell type thunderstorms in the Iberian Peninsula

**15:30–15:45;** EMS2007-A-00392

**Cuevas Tascón, G.;** Martínez, M.A.; Velazquez, M.; Ruiz, J.; Manso, M.  
Splitting of the middle layer of LPW SAFNWC/MSG satellite product in order to improve the monitoring of pre-convective environments

**15:45–16:00;** EMS2007-A-00569

**Morales, C.A.;** Machado, L.A.T.  
Predicting Thunderstorm Development Through Infra-Red Satellite Images

**16:00–16:15;** EMS2007-A-00184

**Giaiotti, D.B.;** Gallai, I.; Gladich, I.; Stel, F.  
On Convective Local Severe Weather Forecasts. Empirical relations vs the theoretical approach

**16:15–16:30;** EMS2007-A-00069

**Jorba, O.;** Marrero, C.; Cuevas, E.; Baldasano, J.M.  
Impact of the extratropical storm Delta over the Canary Islands on 28–30 November 2005: severe windstorm event

**16:30–16:45;** EMS2007-A-00492

**Prieto, R.;** Oropeza, F.  
Tropical cyclone emergency response system for the oil industry in Mexico

**16:45–17:00;** EMS2007-A-00526

**Miguez-Macho, G.;** Fernandez-Diaz, I.; Malvesada, M.L.; Gomez-Hombre, B.X.; Balseiro, C.F.; Penabad, E.  
Numerical study of the fall 2006 flooding events in Galicia with WRF-NMM: the role of the warm sea surface temperature anomaly

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**17:00** Coffee Break

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Chairperson: STEL, F.

**17:30–17:45;** EMS2007-A-00529

**Savvidou, K.;** Nicolaidis, K.A.; Michaelides, S.C.; Orphanou, A.; Adamou, S.  
Flood events over the area of Cyprus

**17:45–18:00;** EMS2007-A-00573

**Gaia, M.**  
A missing flash-flood: a real case which show how the “human side” of the weather forecast process can not be ignored

**18:00–18:15;** EMS2007-A-00470

**Dotzek, N.;** Betz, H.-D.; Höller, H.; Meyer, V.; Oettinger, P.  
Localization of Convective Storm Cells in the Vicinity of Airports

**18:15–18:30;** EMS2007-A-00185

**Giaiotti, D.B.;** Gallai, I.; Gladich, I.; Stel, F.  
Unpredictability of tornado occurrence: the atypical case of Cassacco, ITALY, - Winter 2006 - F2 tornado

**18:30–18:45;** EMS2007-A-00415

**Gallai, I.;** Giaiotti, D. B.; Mordacchini, G.; Nordio, S.; **Stel, F.**  
On the “Heat Bomb” of July 27th 1983

**18:45–19:00;** EMS2007-A-00263

**Nieckarz, Z.;** Zieba, S.; Kulak, A.; Michalec, A.  
Study of lightning activity in three main thunderstorm centers based on Schumann resonance measurements in the years 2005-2006

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**19:00** END OF SESSION

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**AW5 Atmospheric Hazards – Posters**

Convener: Stel, F.

Co-Convener(s): Giaiotti, D.

Display Time: Thursday, 08:30–Friday, 13:30

**Authors in Attendance: Thursday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0033;** EMS2007-A-00183

Martin-Vide, J.; Sanchez-Lorenzo, A.; **Lopez-Bustins, J.A.;** Garcia-Manuel, A.; Raso, J.M.; Cordobilla, M.J.  
Torrential Rainfall in Catalonia: Synoptic patterns and WeMO influence

**P0034;** EMS2007-A-00206

Sanz, M.P.; Arteché, J.L.  
A case of severe convection, with hail and heavy rain, convective train effect

**P0035;** EMS2007-A-00432

**Martínez, C.;** Campins, J.; Genovés, A.; Jansà, A.  
Heavy rain events in the Western Mediterranean: an atmospheric pattern classification

**P0036;** EMS2007-A-00433

**Onorato, L.;** Gallino, S.; Brandini, C.; Orlandi, A.; Pasi, F.; Gemelli, P.  
A study of a flash sea storm over the Gulf of Genoa during 8-9 December 2006

**P0037;** EMS2007-A-00473

Milelli, M.; Oberto, E.; Parodi, A.  
Sensitivity experiments of a severe rainfall event in north-western Italy: 17 August 2006

**P0038;** EMS2007-A-00589

Casas, M.C.; Rodríguez, R.; **Nieto, R.;** Redaño, A.  
Analysis of the 1-day Probable Maximum Precipitation over Catalunya (Spain)

**P0039;** EMS2007-A-00335

**Konings, JA**  
A versatile RADAR display for nowcasting of precipitation and severe weather

**P0040;** EMS2007-A-00683

**Rossa, A.;** Dalla Fontana, A.; Calza, M.; Monai, M.  
Study of convective activity in Veneto region

**P0041;** EMS2007-A-00509

Ancell, R.; Gutierrez, J.M.; Cofino, A. S.  
High resolution nowcasting with generative classifiers

**P0042;** EMS2007-A-00521

**Cao, Z.;** Cai, H.  
A Doppler Radar Analysis for a Severe Tornado Event over Southern Ontario, Canada

**P0043;** EMS2007-A-00647

**Egaña, J.;** Gaztelumendi, S.; Gelpi, I.R.; Otxoa de Alda, K.  
Synoptic patterns associated to severe storms in the Basque Country

**P0044;** EMS2007-A-00584

**Marrero, C.;** Jorba, O.; Cuevas, E.; Baldasano, J.M.  
Sensitivity Study with a Limited Area Model: Extratropical Storm Delta over the Canary Islands

**P0045;** EMS2007-A-000731

**Zhou, H.**  
Study on the three-dimensional structure of the heavy rain by severe tropical storm (BILIS) using Dual-Doppler radar data

**P0046;** EMS2007-A-00068

**Rivas Soriano, L.;** de Pablo, F.; Pérez Puebla, F.  
A comparison between lightning data from the LIS sensor and the ground detection network over the Canary Island

**P0047;** EMS2007-A-00344

**Szwed, M.**  
Heat waves in Poland, based on HadRM3-PRECIS results

**P0048;** EMS2007-A-00474

**Cloppet, E.**  
The PREVIEW project: presentation of the Fire platform

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**AW6.1 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: Indico

Chairperson: JOFFRE, S.

**17:30–17:45;** EMS2007-A-00475

**Piringer, M.**  
Improving the meteorological input of dispersion models for urban applications

**17:45–18:00;** EMS2007-A-00223

**Hidalgo, J.;** Masson, V.; Gimeno, L.  
Scaling the urban-breeze circulation

**18:00–18:15;** EMS2007-A-00618

**Brechler, J.;** Fuka, V.  
Microscale high resolution air-flow modelling

**18:15–18:30;** EMS2007-A-00265

**Belusic, D.;** Vickers, D.; Mahrt, L.

Relative contributions from meandering and turbulence to dispersion

**18:30–18:45;** EMS2007-A-00395

**Baranka, Gy.;** **Weidinger, T.;** Bordás, Á.

Analysis of the hungarian transmission standards in mixing height determination

**18:45–19:00;** EMS2007-A-00404

**Mole, N.;** Schopflocher, T.P.; Sullivan, P.J.

High concentrations of pollutant in short-range dispersion

**19:00–19:15;** EMS2007-A-00295

**Sharman, R.;** Wyszogrodzki, A.; Warner, T.; Swerdlin, S.

Assessment and removal of building-induced errors from rooftop anemometer observations for mesoscale NWP and T&D applications

**19:15–19:30;** EMS2007-A-00227

**Quante, M.;** Matthias, V.; Aulinger, A.

Effects of different meteorological model set-ups on vertical profiles of meteorological parameters and the influence on chemistry transport of benzo(a)pyrene

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**19:30** END OF SESSION

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### **AW6.2 Environmental Meteorology - Global Environmental Monitoring and Forecasting (including GMES related issues)**

Convener: Joffre, S.

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

Lecture Room: Indico

Chairperson: JOFFRE, S.

**15:00–15:15;** EMS2007-A-00167

**Uppala, S.;** Simmons, A.; Dee, D.; Kobayashi, S.

The 3rd generation ECMWF reanalysis ERA-Interim

**15:15–15:30;** EMS2007-A-00431

**Volz-Thomas, A.;** THE IAGOS TEAM

In-service aircraft for a global observation system

**15:30–15:45;** EMS2007-A-00442

**Cheremisin, A.;** Kushnarenko, A.; Marichev, V.; Nikolashkin, S.; Novikov, P.

Meteorology and polar stratospheric clouds

**15:45–16:00;** EMS2007-A-00292

**Belda, F.;** Penadés, M.C.

Preliminary study on contrail formation in the Iberian Peninsula

**16:00–16:15;** EMS2007-A-00633

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

Regional climate change impacts on air quality in CECILIA EC 6FP Project: Preliminary model validation

**16:15–16:30;** EMS2007-A-00397

**Baldasano, J.M.;** Cuevas, E.; Perez, C.; The SDSWS consortium

WMO Sand and Dust Storm Warning System (SDS-WS) for Europe, Africa and Middle East: a GEO-oriented System

**16:30–16:45;** EMS2007-A-00599

**Pessanha, L.;** Bugalho, L.

LSASAF products distribution and application

**16:45–17:00;** EMS2007-A-00436

**Teichmann, C.;** Jacob, D.

Climate and air pollution modelling in South America

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**17:00** END OF SESSION

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### **AW7 Hydrometeorology**

Convener: Rossa, A.

Co-Convener(s): Zappa, M.

Lecture Room: Indico

Chairperson: N.N.

**11:30–11:45;** EMS2007-A-00728

**Sorani, R.**

Hydrology SAF - the status of the project after two years : activities and preliminary results (solicited)

**11:45–12:00;** EMS2007-A-00259

**Arpagaus, M.;** Rotach, M.W.; Dorninger, M.; Hegg, Ch.; Montani, A.; Ranzi, R.

The D-PHASE Operations Period (DOP) (solicited)

**12:00–12:15;** EMS2007-A-00572

**Maitaria, K.;** Gochis, D.J.; Mullen, S.L.; Yates, D.N.; Shuttleworth, W.J.

Modified k-Nearest Neighbor Statistical Downscaling of the Warm Season Precipitation in the Core North America Monsoon Region

**12:15–12:30;** EMS2007-A-00421

**Bremnes, J.B.**

Statistical calibration of precipitation ensembles: An empirical comparison of a few methods

**12:30–12:45;** EMS2007-A-00590

**Llort, X.;** Velasco-Forero, C.; Schröter, K.; Sempere-Torres, D.

Characterization of uncertainty in radar-based precipitation estimates using Kriging

**12:45–13:00;** EMS2007-A-00224

**Bouilloud, L.;** Vincendon, B.; Chancibault, K.; Saulnier, G.M.; Ducrocq, V.; Habets, F.; Martin, E.; Noilhan, J.

Flash flood forecasting with the Surfex/Topmodel coupled system

**13:00–13:15;** EMS2007-A-00102

**Renard, F.;** Comby, J.

Accurate physiognomic and dynamic characterisation of rainfall events in urban area by spatial interpolation : the case of the greater Lyon

**13:15–13:30;** EMS2007-A-00643

**García, N.O.;** Pedraza, R.A.; Krepper, C.M.

Temporal variation of the rainfall frequency and intensity in the Northeastern Argentina. Variability or climatic change?

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**13:30** END OF SESSION

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### **AW7 Hydrometeorology – Posters**

Convener: Rossa, A.

Co-Convener(s): Zappa, M.

Display Time: Thursday, 08:30–Friday, 13:30

**Authors in Attendance: Thursday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0056;** EMS2007-A-00685

**Rossa, A.M.**

The COST 731 Action 'Propagation of Uncertainty in Advanced Meteo-hydrological Forecast Systems'

**P0057;** EMS2007-A-00582

**Velasco-Forero, C.;** **Sempere-Torres, D.;** Sánchez-Diezma, R.; Cassiraga, E.; Gómez-Hernández, J.

Effects of the raingauge network density on the quality of rainfall fields estimated blending radar and raingauge data in real-time

**P0058;** EMS2007-A-00252  
**Barnolas, M.;** Llasat, M.C.; Rigo, T.  
 Characteristics of rainstorms producing floods in the Internal Basins of Catalonia: an analysis using rain gauges, radar, and GIS

**P0059;** EMS2007-A-00099  
**Renard, F.;** Soto, D.; Sarr, A.  
 Evaluation of rainfall spatial interpolation methods

**P0060;** EMS2007-A-00451  
**Salmi, A.;** Elomaa, L.  
 Measurements of the terminal velocity and shape of falling raindrops at Vaisala Rain Laboratory

**P0061;** EMS2007-A-00351  
 Diomede, T.; **Marsigli, C.;** Montani, A.; Paccagnella, T.  
 The COSMO-LEPS quantitative precipitation forecasts as input to streamflow predictions

**P0062;** EMS2007-A-00367  
 Diez, E.; Franco, F.; Luaces, B.; **Orfila, B.**  
 Dynamical and Statistical downscaling from the ECMWF System3

**P0063;** EMS2007-A-00371  
**Cofiño, A.S.;** Orfila, B.; Santos, C.; Gutierrez, J.M.  
 High resolution probabilistic precipitation forecast over Spain combining the statistical downscaling tool PROMETEO and the INM short range EPS system (INM/SREPS)

**P0064;** EMS2007-A-00030  
**Nieto, R.;** Gimeno, L.; Gallego, D.; Trigo, R.  
 Contributions to the moisture budget of airmasses over Iceland

**P0065;** EMS2007-A-00558  
 Azevedo, A.; **Silva, S.;** Gomes, G.  
 Identifying micro-regions of Paraíba state with tendency to desertification process

**P0066;** EMS2007-A-00011  
**Millan, M.;** Estrela, M.J.; Mantilla, E.; Dieguez, J.J.; Alonso, L.; Gangoiti, G.; Navazo, M.  
 Climate Feedbacks in Europe: MODIS evidence of a water vapour accumulation mode in the Mediterranean, and implications for drought in Southern Europe

**P0067;** EMS2007-A-00036  
**Muñiz, M.;** Gil, J.; Nieto, R.; Gimeno, L.  
 Where does deserts' atmospheric moisture come from?

**P0068;** EMS2007-A-00596  
**Queralt, S.;** Hernández, E.; Lorente, P.; Gallego, D.  
 Analysis of the synoptic conditions leading to Iberian Mesoscale Convective Systems

**P0069;** EMS2007-A-00617  
**Camarasa, A.M.;** López-García, M.J.  
 Identification of Mediterranean rainfall events for hydrological analysis. Criteria and characterization

**P0070;** EMS2007-A-00642  
**García, N.O.;** Krepper, C.M.  
 Climate variability over Northeastern Argentina displayed from precipitation

**P0071;** EMS2007-A-00447  
**Mares, I.;** Mares, C.; Stanciu, A.  
 Extreme value analysis of the discharges in the Danube lower basin with covariates NAO and low frequency components of the atmospheric circulation over Europe

**P0072;** EMS2007-A-00528  
 Gestal-Souto, L.; **Miguez-Macho, G.**  
 A high resolution calculation of the equilibrium water table depth and the equilibrium soil moisture profile for the Iberian Peninsula

**P0073;** EMS2007-A-00598  
**Lorente, P.;** Hernández, E.; Queralt, S.; Ribera, P.  
 Stratiform and convective rainfall events in the Iberian Peninsula

**P0074;** EMS2007-A-00165  
**Sododui, S.;** Reimer, E.  
 Downscaling of precipitation in the catchment area of Bode using Active Learning Method (ALM)

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**AW9 Processes at environmental interfaces as sub-atmospheric boundary conditions**

Convener: Mihailovic, D.  
 Co-Convener(s): Tyvand, P., Gualtieri, C.  
 Lecture Room: Pacifico  
 Chairperson: GUALTIERI, C.

**8:30–9:00;** EMS2007-A-00419  
**Gualtieri, C.**  
 Gas-transfer in streams and rivers (solicited)

**9:00–9:15;** EMS2007-A-00113  
**Mihailovic, D.T.**  
 Category Theory as the Language of Modelling Environmental Interfaces – Complex Biophysical Systems

**9:15–9:30;** EMS2007-A-00625  
**Sivertsen, T.H.**  
 Discussing Aspects of the Concept of "Advective Flow" Used in Meteorology and Agrometeorology

**9:30–9:45;** EMS2007-A-00081  
**Rajkovic, B.;** Djurdjevic, V.; Vukiovic, A.  
 Verification of the coupled air-sea model over Adriatic Sea using satellite observations

**9:45–10:00;** EMS2007-A-00609  
 Gualtieri, C.; Mucherino, C.  
 Analysis of transverse turbulent diffusivity data in straight rectangular channels

**10:00–10:15;** EMS2007-A-00616  
**Mihailovic, D.T.;** Balaz, I.; Crvenkovic, S.  
 The use of Formal Concept Analysis in Modelling of Environmental Interface as a Complex System

**10:15–10:30;** EMS2007-A-00234  
**Cirisan, A.;** Lalic, B.; Rajkovic, B.  
 LAPS versus OSU LSM coupled into NWP Workstation Eta model

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**10:30 END OF SESSION**

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**AW9 Processes at environmental interfaces as sub-atmospheric boundary conditions – Posters**

Convener: Mihailovic, D.  
 Co-Convener(s): Tyvand, P., Gualtieri, C.  
 Display Time: Thursday, 08:30–Friday, 13:30  
**Authors in Attendance: Thursday, 10:30–11:30**  
 Poster Area Los Infantes  
 Chairperson: GUALTIERI, C.

**P0049;** EMS2007-A-00079  
**Djurdjevic, V.;** Rajkovic, B.; Popov, Z.; Vukovic, A.  
 A comparison of surface fluxes between atmosphere and ocean using coupled and uncoupled air-sea interaction model

## AW12/AM1.5 Aviation Meteorology (joint session)

Convener: Drüe, C.  
Co-Convener(s): Bange, J.  
Lecture Room: Europa  
Chairperson: BANGE, J.

**8:30–8:45;** EMS2007-A-00461

**Haman, K.E.;** Kumala, W.A.

A new fast aircraft thermometer for temperature measurements in clouds (solicited)

**8:45–9:00;** EMS2007-A-00361

**Gkinis, V.;** Iannone, R.; Kassi, S.; Chenevier, M.; Jost, H. J.; Romanini, D.; Kerstel, E.

Iris: an ultra-sensitive infrared spectrometer for airborne water isotope ratio measurements

**9:00–9:15;** EMS2007-A-00409

**Smit, H.G.;** Volz-Thomas, A.; Hoff, A.; Jones, R.L.

Which hygrometer for AMDAR?

**9:15–9:30;** EMS2007-A-00061

**Drüe, C.;** Frey, W.; Hoff, A.; Hauf, T.

Aircraft-type specific errors in AMDAR weather data from commercial aircraft

**9:30–9:45;** EMS2007-A-00052

**van den Kroonenberg, A.C.;** Spieß, T.; Martin, T.; Bange, J.  
Probing the atmospheric boundary layer with the meteorological UAV 'MMAV Carolo' (solicited)

**9:45–10:15;** EMS2007-A-00338

**Lebot, C.;** Pagé, C.; Drouin, A.

SIGMA: Diagnosis and nowcasting of in-flight icing. Improving Aircrew Awareness through FLYSAFE (solicited)

### Short poster presentations

**10:15–10:17;** EMS2007-A-00096

**Traveria, M.;** Palomo, P.; Escribano, A.

Local wind forecast for LERS airport

**10:17–10:19;** EMS2007-A-00298

**Hoff, A.**

Humidity Measurements by E-AMDAR

**10:19–10:21;** EMS2007-A-00578

**Neininger, B.;** Steiner, R.

New opportunities for airborne research in Switzerland

**10:21–10:23;** EMS2007-A-00059

**Röhner, P.;** Markovic, D.; Hauf, T.

A statistical study of the weather impact on punctuality at European airports

**10:23–10:25;** EMS2007-A-00246

**Bakowski, R.;** Glowacka, A.; Wiazewski, W.

Thermal advection role in fog formation process

**10:25–10:27;** EMS2007-A-00250

**Bakowski, R.;** Glowacka, A.; Olszewska, E.

Fog forecasting based on complex analysis of meteorological conditions and atmospheric circulation

**10:27–10:30** Discussion

**10:30** Coffee Break

Chairperson: DRÜE, C.

**11:30–11:45;** EMS2007-A-00479

**Pradier-Vabre, S.;** Forster, C.; Pagé, C.; Sénési, S.; Bernard-Bouissières, I.; Caumont, O.; Drouin, A.; Ducrocq, V.; Guillou, Y.; Josse, P.

FLYSAFE - Severe weather simulations to evaluate new warnings of meteorological hazards

**11:45–12:00;** EMS2007-A-00359

**Liechti, O.**

Operational predictions of the potential flight distance for soaring in wind and thermals

**12:00–12:15;** EMS2007-A-00294

**Sharman, R.;** Frehlich, R.

The prediction of mountain wave turbulence (solicited)

**12:15–12:30;** EMS2007-A-00158

**Cano, D.;** Palacio, J.I.; Ayensa, E.; Casado, J.; Terradellas, E.

Use of a boundary-layer profiler for aviation meteorology

**12:30–12:45;** EMS2007-A-00147

**Bakowski, R.;** Cano, D.; Glowacka, A.; Olszewska, E.; Terradellas, E.

Analysis of a fog event: From the synoptic scale to local features

**12:45–13:00;** EMS2007-A-00608

**Krollova, K.**

Dynamic – climatological analysis of significant low level clouds at Bratislava airport

**13:00–13:15;** EMS2007-A-00597

**Maat, N.**

Collaborative decision making at Amsterdam airport

**13:15–13:30;** EMS2007-A-00124

**Horstink, L.;** Kok, K.

The economic value of short term Terminal Aerodrome Forecasts

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**13:30** END OF SESSION

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## AW12/AM1.5 Aviation Meteorology (joint session) – Posters

Convener: Drüe, C.

Co-Convener(s): Bange, J.

Display Time: Thursday, 08:30–Friday, 13:30

**Authors in Attendance: Thursday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: DRÜE, C.

**P0050;** EMS2007-A-00096

**Traveria, M.;** Palomo, P.; Escribano, A.

Local wind forecast for LERS airport

**P0051;** EMS2007-A-00298

**Hoff, A.**

Humidity Measurements by E-AMDAR

**P0052;** EMS2007-A-00578

**Neininger, B.;** Steiner, R.

New opportunities for airborne research in Switzerland

**P0053;** EMS2007-A-00059

**Röhner, P.;** Markovic, D.; Hauf, T.

A statistical study of the weather impact on punctuality at European airports

**P0054;** EMS2007-A-00246  
Bakowski, R.; Glowacka, A.; Wiazewski, W.  
Thermal advection role in fog formation process

**P0055;** EMS2007-A-00250  
Bakowski, R.; Glowacka, A.; Olszewska, E.  
Fog forecasting based on complex analysis of meteorological conditions and atmospheric circulation

## Forecasting the Weather from one day to one year ahead

### FW2 High Resolution Forecasting Systems for the Prediction of Severe Weather

Convener: Onvlee, J.  
Co-Convener(s): Burridge, D.  
Lecture Room: Europa  
Chairperson: N.N.

**15:00–15:15;** EMS2007-A-00467  
**Bornemann, F.;** Wilson, C.  
Evaluation of high resolution operational NWP for the UK

**15:15–15:30;** EMS2007-A-00262  
**Santos-Muñoz, D.;** Morata, A.; Martín, M.L.; Sotillo, M.G.; Valero, F.; Luna, Y.  
Predictability study of a severe weather event

**15:30–15:45;** EMS2007-A-00427  
**Göber, M.**  
Reducing false alarms by focusing the operational warning process for thunderstorms

**15:45–16:00;** EMS2007-A-00171  
**Mittermaier, M.**  
High-resolution time-lag ensemble PoP forecasts: can they add skill for high-impact events?"

**16:00–16:15;** EMS2007-A-00045  
**Estrela, M.;** Pastor, F; Miró, J; Gómez, I; Barberá, M  
Heat waves prediction system in a Mediterranean area (Valencia region)

**16:15–16:30;** EMS2007-A-00453  
**Spreitzhofer, G.**  
High-Resolution Mountain Weather Forecasts using Met-GIS, a combined meteorological-geographic Information System

**16:30–16:45;** EMS2007-A-00276  
**Boniface, K.;** Masson, F; Chery, J.; Ducrocq, V.; Doerflinger, E.; Vernant, P; Collard, P.  
Mesoscale GPS data network for improving Mediterranean heavy precipitation forecasting

**16:45–17:00;** EMS2007-A-00277  
**De Haan, S.**  
Real time integrated water vapour observations from Global Navigation Satellite Systems

**17:00** END OF SESSION

### FW4 Verification

Convener: Nurmi, P.  
Co-Convener(s): Richardson, D., Göber, M.  
Lecture Room: Europa  
Chairperson: NURMI, P.

**17:30–17:45;** EMS2007-A-00173  
**Mittermaier, M.**  
The impact of using persistence as a reference on forecast skill

**17:45–18:00;** EMS2007-A-00177  
**Wilson, C.;** Mittermaier, M.  
The sensitivity of verification to uncertainty in radar and gauge estimates of precipitation

**18:00–18:15;** EMS2007-A-00493  
**Roberts, N.M.;** Clark, P.A.  
Scale-selective verification of rainfall forecasts

**18:15–18:30;** EMS2007-A-00175  
**Wernli, H.;** Paulat, M.; Zimmer, M.; Hagen, M.; Frei, C.  
SAL - a novel quality measure for the verification of high-resolution precipitation forecasts

**18:30–18:45;** EMS2007-A-00476  
**Kalin, L.;** Juras, J.; Pasarić, Z.; Vakula, Z.  
The comparison of Gringorten's and LEPS scores for extreme events forecasts

**18:45–19:00;** EMS2007-A-00577  
**Ahrens, B.**  
Information-based skill scores for probabilistic forecasts

**19:00–19:15;** EMS2007-A-00495  
**Van Weverberg, K.;** van Lipzig, N.P.M; Haase, G.; Meirold-Mautner, I.; Delobbe, L.  
The contribution of using an advanced forward operator in evaluating mesoscale atmospheric models

**19:15–19:30;** EMS2007-A-00497  
**Casati, B.;** Fortin, V.; Wilson, L.  
A wavelet-based spatial verification approach to account for the variation in scale representativeness of observation networks

**19:30** END OF SESSION

## Climatology

### CL1 Climate change and variability in Europe, including extremes and its societal impacts over the last millennium

Convener: García-Herrera, R.  
Co-Convener(s): López-Díaz, J., Heino, R., Rebetez, M.  
Lecture Room: America  
Chairperson: HAINO, R.

**11:30–12:00;** EMS2007-A-00085  
**García-Herrera, R.**  
Climatic data recovery for the last millenium from documentary sources (solicited)

**12:00–12:15;** EMS2007-A-00104  
**Wheeler, D.;** Garcia-Herrera, R.  
Filling the gaps: climatic data recovery for oceanic regions in the pre-instrumental period

**12:15–12:30**; EMS2007-A-00236

**Brazdil, R.**; Dobrovolny, P.; Halickova, M.; Mackova, J.  
Temperature and precipitation reconstructions for the Czech Republic in 1700–1850: data and methods

**12:30–12:45**; EMS2007-A-00675

**Klok, E.**; van Engelen, A.  
Using daily instrumental records for historical climate reconstruction

**12:45–13:00**; EMS2007-A-00149

**Valente, M.A.**; Barros, M.; Nunes, L.F.; Alves, E.I.; Trigo, R.; Pinhal, E.; Coelho, F.; Mendes, M.; Miranda, J.M.  
Recovery of 19th and early 20th century Portuguese historical meteorological data

**13:00–13:15**; EMS2007-A-00051

**Auer, I.**; Böhm, R.; Hynek, B.; Jurkovic, A.; Orlik, A.; Korus, E.; Schöner, W.  
Studies on Past Climate Variability and Impacts in two Austrian Inner-alpine Valleys

**13:15–13:30**; EMS2007-A-00595

**Cappelen, J.**; Hanna, E.; Jonsson, T.; Allan, R.; Hickey, K.  
A new improved history and insights into North Atlantic/European atmospheric surface pressure variability, storminess and related climatic change since 1850: PRELIMINARY results

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**13:30** Lunch

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Chairperson: GARCIA HERRERA, R.

**15:00–15:30**; EMS2007-A-00092

**Rebetez, M.**; Dupont, O.; Giroud, M.  
An analysis of the July 2006 heatwave extent in Europe compared to the record year of 2003 (solicited)

**15:30–15:45**; EMS2007-A-00209

**Ramos, A.M.**; Trigo, R.M.; Santo, F.E.; Santos, F.D.  
The evolution of temperature extreme events over Portugal; reporting on recent heatwaves

**15:45–16:00**; EMS2007-A-00071

**Cony, M.**; Hernández, E.; Prieto, L.; del Teso, T.  
Trends analysis of extremely hot days and extremely cold days and relationship with synoptic patterns in Europe

**16:00–16:15**; EMS2007-A-00401

**Huth, R.**; Kyselý, J.  
Is growing persistence of atmospheric circulation conducive to increasing incidence of heat waves?

**16:15–16:30**; EMS2007-A-00411

**Shmakin, A.B.**; Popova, V.V.  
Climatic extremes and their change in North Eurasia under contemporary warming

**16:30–16:45**; EMS2007-A-00305

**Cheval, S.**; Dumitrescu, A.  
The July Urban Heat Island of Bucharest as Derived from Modis Images

**16:45–17:00**; EMS2007-A-00681

**Philipona, R.**  
Declining aerosols – solar brightening – and the rapid temperature rise in Europe since the 1980s

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**17:00** Coffee Break

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Chairperson: REBETEZ, M.

**17:30–17:45**; EMS2007-A-00418

**Stepanek, P.**; Brazdil, R.; Reznickova, L.  
Extreme value analysis in daily air temperature and precipitation series in the area of South Moravia, Czech Republic since 1848

**17:45–18:00**; EMS2007-A-00331

**Della-Marta, P.M.**; Mathis, H.; Frei, C.; Liniger, M.A.; Appenzeller, C.  
The return period of extreme winds over western Europe (solicited)

**18:00–18:15**; EMS2007-A-00477

**Bojariu, R.**; Ion-Bordei, E.; Cheval, S.; Serban, A.  
Influences of regional SST variability on extreme precipitation in Romania (solicited)

**18:15–18:30**; EMS2007-A-00564

**Álvarez-García, F.**; CabosNarváez, W.; OrtizBeviá, M.J.  
Influence of North Atlantic SST on European daily precipitation and surface temperature extremes in GFDL coupled model simulations

**18:30–18:45**; EMS2007-A-00496

**Dutra, E.**; Viterbo, P.; Miranda, P.M.  
Anomalies in the surface water and energy balance: an application to the analysis of European droughts

**18:45–19:00**; EMS2007-A-00001

**Quiroga, S.**; Iglesias, A.  
Climate risk to agricultural production: impacts across geographical areas

**19:00–19:15**; EMS2007-A-00008

**Alcinova Monevska, S.**  
Climate change and extreme temperature events impacts on human health in Skopje

**19:15–19:30**; EMS2007-A-00484

Jol, A.; Lavalle, C.; Menne, B.; van Minnen, J.; Raes, F.; Stastny, P.; Voigt, T.  
Planned 2008 EEA-JRC-WHO report on impacts of climate change in Europe

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**19:30** END OF SESSION

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## CL2 Climate prediction and projection

Convener: Ceron, J.  
Co-Convener(s): Appenzeller, C.  
Lecture Room: America  
Chairperson: N.N.

**8:30–8:45**; EMS2007-A-00347

**Hovsepyan, H.**  
Model simulations on climate change over the South Caucasus during 21st century

**8:45–9:00**; EMS2007-A-00456

**Leckebusch, G.C.**; Donat, M.; Ulbrich, U.; Pinto, J.G.  
Impacts of severe cyclones on property losses: estimations based on global and regional ENSEMBLE modelling (solicited)

**9:00–9:15**; EMS2007-A-00334

**Della-Marta, P.M.**; Liniger, M.A.; Appenzeller, C.  
The potential predictability and improved estimates of extreme winds over western Europe using seasonal ensemble prediction systems

**9:15–9:30;** EMS2007-A-00366

**Frias, M.D.;** Herrera, S.; Cofino, A.S.; Gutierrez, J.M.  
ENSO and seasonal predictability over Europe. Some case studies

**9:30–9:45;** EMS2007-A-00112

Weigel, A.P.; Liniger, M.A.; **Appenzeller, C.**  
Blending dynamical climate forecasts with climatology

**9:45–10:00;** EMS2007-A-00368

**Sordo, C.M.;** Cofino, A.S.; Gutierrez, J.M.  
Bayesian downscaling of ensemble prediction systems.  
Application to climate change scenarios

**10:00–10:15;** EMS2007-A-00082

Alpert, P.; **Osetinsky, I.**  
Downscaling analysis of GCMs via the objectively classified  
synoptic systems (cancelled)

**10:15–10:30;** EMS2007-A-00498

**Torres, L.;** del Carre, M.; Ribalaygua, J.; Portela, A.  
High resolution climate scenarios for Spain produced with a  
two step analog statistical downscaling method

**10:30** END OF SESSION

## Meteorology and Society

### MS3 Education in Atmospheric and related Sciences

Convener: Halenka, T.  
Lecture Room: Pacifico  
Chairperson: SUNDIUS, C.

**11:30–11:45;** EMS2007-A-00636

**Halenka, T.**  
Background for atmospheric sciences education in European  
school curricula: An update

**11:45–12:15;** EMS2007-A-00154

**Karppanen, J.;** Sundius, C.; Nietosvaara, V.  
Eumetcal Blended Learning Approach for Continuous  
Professional Development in Meteorology (solicited)

**12:15–12:30;** EMS2007-A-00101

**Vazquez, R.**  
Interactive learning material on high impact weather pro-  
duced by mid-latitude cyclones in the Mediterranean

**12:30–13:00;** EMS2007-A-00534

**Billard, C.**  
EUMETCAL AVIATION METEOROLOGY COURSE -  
A full scale pilot blended learning approach to training  
(solicited)

**13:00–13:15;** EMS2007-A-00212

**Traveria, M.**  
Meteorology for pilots at the university

**13:15–13:30;** EMS2007-A-00303

**Hygen, H. O.;** Haaland, S.; Sandås, A.; Krüger, F.  
Regnsjekken 06: How to get a nation to measure the rain,  
concept and ideas

**13:30–13:45;** EMS2007-A-00730

**Stan-Sion, A.**  
Summer Schools in Romania - Training and Learning  
Experiences

**13:45** END OF SESSION

### MS3 Education in Atmospheric and related Sciences – Posters

Convener: Halenka, T.  
Display Time: Thursday, 08:30–Friday, 13:30  
**Authors in Attendance: Thursday, 10:30–11:30**  
Poster Area Los Infantes  
Chairperson: HALENKA, T.

**P0174;** EMS2007-A-00463

**Myers, V.;** Sheridan, S.  
Weather Maps in the Classroom: Stark County, Ohio, USA

**P0175;** EMS2007-A-00304

**Hygen, H. O.;** Haaland, S.; Sandås, A.; Krüger, F.  
Regnsjekken 06: How to get a nation to measure the rain,  
results

**P0176;** EMS2007-A-00635

**Halenka, T.;** Belda, M.  
Higher education in Europe after Bologna declaration and  
ECTOM

**P0177;** EMS2007-A-00324

**Chagas, G.;** Carvalheiro, L.; Correia, P.; Santana, F.;  
Orgaz, M.  
Data sharing and cooperation: the usage of IDD in Portugal

**P0178;** EMS2007-A-00038

Poiana, I.; **Pop, C.**  
Meteorological Education and Training Development in the  
Romanian National Meteorological Administration



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# MEETING PROGRAMME

## FRIDAY

Friday, 5 October 2007				
	Europa	America	Indico	Pacifico
	<b>FW4:</b> Verification - 2	<b>CL1:</b> Climate change & variability - 4	<b>AW6.1:</b> Environm. Meteorology - Atmospheric Pollution - 2	<b>AW10:</b> Tropopause Dynamics - 1
8:30 - 10:30	A-00524: <b>Pocernich, M</b>	A-00555: <b>González-Ruoco, JF</b>	A-00245: <b>Kerschbaumer, A</b>	A-00014: <b>Seidel, DJ</b>
	A-00296: <b>Gilleland, E</b>		A-00545: <b>Orza, JAG</b>	
	A-00537: <b>Wilson, L</b>	A-00110: <b>Soto, D</b>	A-00443: <b>Spekat, A</b>	A-00531: <b>Staten, P</b>
	A-00285: <b>Sandgathe, S</b>	A-00053: <b>Kostopoulou, E</b>	A-00575: <b>Colfescu, I</b>	A-00417: <b>de la Torre, L</b>
	A-00412: <b>Marsigli, C</b>	A-00054: <b>Gómez-Gesteira, M</b>	A-00094: <b>Ortiz de Galisteo, P</b>	A-00410: <b>Añel, JA</b>
	A-00525: <b>Brown, B</b>	A-00289: <b>de Lima, MIP</b>	A-00416: <b>Fotiadi, A</b>	A-00546: <b>Aparicio, JM</b>
	A-00129: <b>Stel, F</b>	A-00544: <b>Montávez, JP</b>	A-00472: <b>Reimer, E</b>	<b>Short poster presentations</b>
	A-00516: <b>Mariani, S</b>	A-00339: <b>Ustrnul, Z</b>	A-00481: <b>Piringer, M</b>	A-00136: <b>Lakkis, S</b>
	<b>FW4:</b> Verification - 3	<b>CL1:</b> Climate change & variability - 5	<b>AW6.1:</b> Environm. Meteorology - Atmospheric Pollution - 3	<b>AW10:</b> Tropopause Dynamics - 2
11:30 - 13:30	A-00264: <b>Göber, M</b>	A-00214: <b>Barriopedro, D</b>	A-00639: <b>Baklanov, A</b>	A-00134: <b>Yuchechen, A</b>
	A-00127: <b>Hewson, TD</b>	A-00536: <b>Wilbig, J</b>	A-00067: <b>Gaudreault, S</b>	A-00430: <b>Antuña, JC</b>
	A-00131: <b>Bonta, I</b>	A-00033: <b>Gimeno, L</b>	A-00457: <b>Skomorowski, P</b>	A-00452: <b>Cuevas, E</b>
	A-00012: <b>Petersen, C</b>	A-00287: <b>Lionello, P</b>	A-00487: <b>Niwano, M</b>	A-00091: <b>Ruti, PM</b>
	A-00358: <b>Hippi, M</b>	A-00383: <b>Trnka, M</b>	A-00491: <b>Minguzzi, E</b>	A-00268: <b>Ribera, P</b>
	A-00374: <b>Phan, T</b>	A-00439: <b>Spekat, A</b>	A-00455: <b>Vince, Cs</b>	A-00077: <b>Sherwood, SC</b>
	A-00557: <b>Blanco, A</b>	A-00458: <b>Popova, VV</b>	A-00235: <b>Szinyei, D</b>	
	A-00522: <b>Pocernich, M</b>	A-00631: <b>Halenka, T</b>	A-00379: <b>Baldasano, JAG</b>	

Abstract numbers are abbreviated. The full abstract numbers that begin with "EMS2007-" 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.

# Atmosphere and the Water Cycle

## AW6.1 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: Indico  
Chairperson: BAKLANOV, A.

**8:30–8:45;** EMS2007-A-00245

**Kerschbaumer, A.;** Lutz, M.  
Origin and influence of PM10 concentrations in urban and in rural environments

**8:45–9:00;** EMS2007-A-00545

**Cabello, M.;** **Orza, J.A.G.;** Galiano, V.  
On the methodology of backtrajectory cluster analysis. Origin of air masses and their contribution to PM levels

**9:00–9:15;** EMS2007-A-00443

**Spekat, A.;** Enke, W.; Kreienkamp, F.  
A statistical approach to discern local and background portions of PM10

**9:15–9:30;** EMS2007-A-00575

**Colfescu, I.;** Boroneant, C.; Diamandi, A.; Caian, M.; Nicola, O.  
Dust aerosol monitoring over south of Romania. Trajectories and air mass analysis

**9:30–9:45;** EMS2007-A-00094

**Ortiz de Galisteo, P.;** Toledano, C.; Cachorro, V.; Rodríguez, E.; De Frutos, A.  
A detailed analysis of aerosol optical depth calculation in polar regions

**9:45–10:00;** EMS2007-A-00416

**Fotiadi, A.;** Hatzianastassiou, N.; Matsoukas, C.; Papadimas, C.; Vardavas, I.  
Four-year observations of aerosol physical and optical properties during coarse and fine aerosol episodes, from the AEROSOL ROBOTIC NETWORK station at Crete (Eastern Mediterranean) and MODIS

**10:00–10:15;** EMS2007-A-00472

**Reimer, E.;** Dvorska, A.; Lammel, G.; Holoubek, I.; Klánová, J.  
Source/Receptor Relationship for Persistent Toxic Substances for three observational sites over Central Europe

**10:15–10:30;** EMS2007-A-00481

**Piringer, M.;** Schaubberger, G.; Petz, E.  
Separation distances at different sites calculated with the Austrian Odour Dispersion Model (AODM)

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**10:30** Coffee Break

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Chairperson: PIRINGER, M.

**11:30–11:45;** EMS2007-A-00639

**Baklanov, A.;** Fay, B.  
Integrated systems of coupled meteorological and chemical transport models: EU practices and improvement strategies

**11:45–12:00;** EMS2007-A-00067

**Gaudreault, S.;** The GEM-MACH Development Team  
Implementation of fully coupled "online" chemistry within the GEM model

**12:00–12:15;** EMS2007-A-00457

**Hirtl, M.;** **Skomorowski, P.;** Baumann-Stanzer, K.; Krüger, B.C.  
Operational air quality forecasts with ALADIN and CAMx for Austria

**12:15–12:30;** EMS2007-A-00487

**Niwano, M.;** Takigawa, M.; Akimoto, H.; Takahashi, M.; Teshiba, M.  
Regional chemical weather forecast over the central Japan: The effect of diffusion and mixing parameterization on local meteorology and chemical transport

**12:30–12:45;** EMS2007-A-00491

**Minguzzi, E.;** Bonafé, G.; Stortini, M.; Deserti, M.  
Interannual variability of air pollution in Northern Italy

**12:45–13:00;** EMS2007-A-00455

**Vincze, Cs.;** Molnár, F.; Lagzi, I.; Mészáros, R.  
Modelling nuclear dispersion using the TREX model

**13:00–13:15;** EMS2007-A-00235

**Szinyei, D.;** Vincze, Cs.; Czender, Cs.; Lagzi, I.; Mészáros, R.; Zsély, I.Gy.  
Uncertainty analysis of a dry deposition model

**13:15–13:30;** EMS2007-A-00379

**Baldasano, J.M.;** Jimenez-Guerrero, P.; The CALIOPE Consortium  
CALIOPE: An operational air quality forecasting system for the Iberian Peninsula, Balearic Islands and Canary Islands

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**13:30** END OF SESSION

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## AW10 Tropopause Dynamics

Convener: GIMENO, L.  
Co-Convener(s): Hoinka, K., Castanheira, J.  
Lecture Room: Pacifico  
Chairperson: HOINKA, K.

**8:30–9:00;** EMS2007-A-00014

**Seidel, D.J.;** Randel, W.J.  
Recent widening of the tropical belt: Evidence from tropopause observations (solicited)

**9:00–9:15;** EMS2007-A-00531

**Staten, P.;** Reichler, T.  
Can radio occultation be used to discern long-term tropopause trends?

**9:15–9:30;** EMS2007-A-00417

**Añel, J. A.;** **de la Torre, L.;** Gimeno, L.  
Global trends of tropopause pressure and temperature from radiosonde data

**9:30–9:45;** EMS2007-A-00410

**Añel, J.A.;** Antuña, J.C.; de la Torre, L.; Castanheira, J.M.; Gimeno, L.  
Climatological features of global multiple tropopause events

**9:45–10:00;** EMS2007-A-00546

**Aparicio, J.M.;** Deblonde, G.  
Analysis of the tropopause structure with GPS radio occultation

**10:00–10:15;** EMS2007-A-00413

**Campistron, B.;** Saïd, F.; Kim, K.E.  
Spatial and temporal characteristics of midlatitude tropopause revealed by 5-year VHF radar observations (cancelled)

**10:15–10:30;** EMS2007-A-00136

**Lakkis, S.;** Yuchechen, A.; Canziani, P.  
The tropopause as derived from upper-air, reanalyses and remote sensing data: (dis)advantages for each method

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**10:30** Coffee Break

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Chairperson: CASTANHEIRA, J.

**11:30–11:45;** EMS2007-A-00134

**Yuchechen, A.;** Bischoff, S.; Canziani, P.  
Tropopause height – 500 hPa height coupling: meridional variability along a circle of latitude

**11:45–12:00;** EMS2007-A-00430

**Antuña, J.C.;** Sterin, A.; Añel, J.A.; Gimeno, L.  
Prof. Zahar Makhover: Relevant contributor to the early tropopause studies

**12:00–12:15;** EMS2007-A-00348

**Michel, Y.;** Bouttier, F.  
Case studies of 4D-var assimilation of potential vorticity observations derived from image processing (cancelled)

**12:00–12:15;** EMS2007-A-00452

**Cuevas, E.;** Rodriguez, J.J.; Gil, M.; Guerra, J.C.; Redondas, A.; Bustos, J.J.  
Stratosphere-troposphere exchange processes driven by the subtropical jet

**12:15–12:30;** EMS2007-A-00091

**Dell’Aquila, A.;** **Ruti, P.M.;** Suter, A.  
Effects of the baroclinic adjustment on the tropopause in the NCEP-NCAR reanalysis

**12:30–12:45;** EMS2007-A-00268

**Ribera, P.;** Peña-Ortiz, C.; Gimeno, L.; Añel, J.  
MTM-SVD Analysis of the QBO Signature at the Tropopause

**12:45–13:15;** EMS2007-A-00077

**Sherwood, S. C.;** Allen, R. J.  
UT/LS temperature trends in homogenized radiosonde data (solicited)

**P0079;** EMS2007-A-00233

**Kim, K.-E.;** Lee, H.-R.; Heo, B.-H.; Campistron, B.; Park, J.-H.  
Analysis of an explosive cyclone linked to a tropopause fold. part II : atmospheric circulation and instability

**P0080;** EMS2007-A-00144

**Lakkis, S.;** Lavorato, M.; Canziani, P.  
Monitoring the tropopause heights with lidar in the Southern Hemisphere: a local study from Buenos Aires

**P0081;** EMS2007-A-00333

**Rodriguez, J.J.;** Cuevas, E.; Guerra, J.C.; Redondas, A.; Gil, M.; Bustos, J.J.  
Characterization of the Subtropical UTLS from a long-term radiosonde and ozonesonde series (1992–2006) analysis

**P0082;** EMS2007-A-00363

**Peña-Ortiz, C.;** Giorgetta, M.A.; García-Herrera, R.; **Ribera, P.;** Calvo, N.  
The extratropical QBO signature

**P0083;** EMS2007-A-00141

**Yuchechen, A.;** Canziani, P.; Bischoff, S.  
Frequency distributions for tropopause pressure, height and temperature over the southeastern tip of South America

**P0084;** EMS2007-A-00519

**Calvo, N.;** **Garcia-Herrera, R.;** Garcia, R.  
ENSO signal propagation through the tropopause in two different resolution simulations with WACCM

**P0085;** EMS2007-A-00072

**Krizan, P.;**  
Yearly course of the selected characteristics of the ozonopause and tropopause at the ozonesonde stations over the globe

**13:15** END OF SESSION

## Forecasting the Weather from one day to one year ahead

### AW10 Tropopause Dynamics – Posters

Convener: GIMENO, L.

Co-Convener(s): Hoinka, K., Castanheira, J.

Display Time: Thursday, 08:30–Friday, 13:30

**Authors in Attendance: Friday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: ANTUÑA, J.C.

**P0075;** EMS2007-A-00138

**Lakkis, S.;** Yuchechen, A.; Canziani, P.  
Single and multiple tropopause events as GPS, Radiosonde and Reanalyses data reveal: a comparison in the Southern Hemisphere

**P0076;** EMS2007-A-00424

**Añel, J. A.;** de la Torre, L.; Nieto, R.; Castanheira, J. M.; Antuña, J. C.; Gimeno, L.  
Analysis of the relationship of multiple tropopause events with cut-off low systems and the jet stream

**P0077;** EMS2007-A-00297

**Iwabe, C.;** **Rocha, R.;**  
Tropopause fold contribution to formation and intensification of surface cyclone over the east coast of Southern Brazil

**P0078;** EMS2007-A-00176

**Jonas, M.;** **Wernli, H.;**  
A Lagrangian climatology of stratosphere-troposphere exchange derived from the ERA-40 data set - its features and limitations

### FW2 High Resolution Forecasting Systems for the Prediction of Severe Weather – Posters

Convener: Onvlee, J.

Co-Convener(s): Burrige, D.

Display Time: Thursday, 08:30–Friday, 13:30

**Authors in Attendance: Friday, 10:30–11:30**

Poster Area Los Infantes

Chairperson: N.N.

**P0086;** EMS2007-A-00215

**Takenouchi, K.;** Nakayama, H.; Aranami, K.; Fujita, T.  
A high-resolution local forecast model at the Japan Meteorological Agency, for the forecast of local severe events

**P0087;** EMS2007-A-00208

**Simarro, J.;** Callado, A.; Garcia-Moya, J.A.; Santos, D.; Santos, C.  
Probabilistic forecasts based on the HIRLAM INM high resolution deterministic model

**P0088;** EMS2007-A-00607

**Pierce, C.;** Bowler, N.; Seed, A.  
Development of a high resolution (2km) precipitation forecast ensemble with a range of several days

**P0089;** EMS2007-A-00530

**Orphanou, A.;** Savvidou, K.; Nicolaidis, K.A.; Michaelides, S.C.; Theodorou, A.  
Thermodynamic indices over the area of Cyprus

**P0090**; EMS2007-A-00271  
**von Bremen, L.**  
Impact of increasing spatial Model Resolution on the Accuracy of Wind Power Forecasts

**P0091**; EMS2007-A-00205  
**Barrera, E.**; Rodríguez, J.M.  
Mesoscale numerical simulation of severe rainfall episode in Tenerife Island

**P0092**; EMS2007-A-00541  
**Azorin-Molina, C.**; Guijarro, J.A.; Jansà, A.  
Sea breeze convergence and convective cloud frequencies from AVHRR data over Mallorca Island

**P0093**; EMS2007-A-00501  
Uboldi, F.; **Lussana, C.**; Salvati, M.R.  
Spatial analysis of observations from high resolution automatic meteorological networks

**P0094**; EMS2007-A-00279  
**de Haan, S.**  
Using GPS water vapour observations to estimate vertical velocity

**P0095**; EMS2007-A-00542  
**Azorin-Molina, C.**; Connell, B.H.; Baena-Calatrava, R.  
A new APOLLO daytime over land algorithm for computing convective cloud composites over the Iberian Peninsula and Balearic Islands

**P0096**; EMS2007-A-00217  
**Sanz, M.P.**; Arteché, J.L.; Ortiz, F.J.  
A case of Severe Convection, with Hail and heavy rain: Convective Train Effect

**P0097**; EMS2007-A-00499  
**Lussana, C.**; Ranci, M.; Salvati, M.R.; Uboldi, F.  
Automatic data quality control using spatial interpolation with statistical method

**P0098**; EMS2007-A-00042  
**Murray, L.**; Khu, S.T.; Savic, D.  
The significance of degrees of freedom when using chaos theory methodologies for the prediction of radar rainfall

**P0099**; EMS2007-A-00602  
**Fjukstad, B.**; Anshus, O.; Bjørndalen, J.  
High resolution numerical models on a Display Wall

**P0100**; EMS2007-A-00109  
**Els, S.G.**; Schoeck, M.; Vogiatzis, K.; The TMT Site Selection Team  
Observations of the turbulent atmospheric ground layer during site testing for the Thirty Meter Telescope

**P0101**; EMS2007-A-00256  
Carvalho, L.; Correia, P.; Chagas, G.; Santana, F.; Costa, P.; Yamasaki, Y.; Manso, M.  
Impact of GRIB2 usage on the Weather Research and Forecasting model performance: preliminary studies

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#### FW4 Verification

Convener: Nurmi, P.  
Co-Convener(s): Richardson, D., Göber, M.  
Lecture Room: Europa  
Chairperson: GÖBER, M.

**8:30–8:45**; EMS2007-A-00524  
**Pocernich, M.**; Gilleland, E.  
Issues of spatial forecasts, hypothesis tests, multiple comparison and field significance

**8:45–9:00**; EMS2007-A-00296  
**Gilleland, E.**; Brown, B.; Davis, C.; Ahijevych, D.  
An inter-comparison of spatial forecast verification methods

**9:00–9:15**; EMS2007-A-00537  
**Wilson, L.**; Casati, B.  
Keeping track of spatial scales in verification of forecasts from NWP models

**9:15–9:30**; EMS2007-A-00285  
Marzban, C.; **Sandgathe, S.**; Lyons, H.  
Assessment of an automatic, object-oriented approach to the verification of spacial fields

**9:30–9:45**; EMS2007-A-00412  
**Marsigli, C.**; Montani, A.; Paccagnella, T.  
Spatial verification of high resolution precipitation forecasts issued by an ensemble system

**9:45–10:00**; EMS2007-A-00525  
**Brown, B.**; Halley-Gotway, J.; Bullock, R.; Davis, C.; Ahijevych, D.; Gilleland, E.; Holland, L.  
Demonstration of the MODE object-based verification tool for the evaluation of model precipitation fields

**10:00–10:15**; EMS2007-A-00129  
Gallai, I.; Giaiotti, D.B.; **Stel, F.**  
Forecast Verification and the Closure of Forecasting Process

**10:15–10:30**; EMS2007-A-00516  
Mariani, S.; Casaioli, M.; Accadia, C.; Lanciani, A.; Tartaglione, N.; Speranza, A.; Monacelli, G.  
A two-year verification study over Italy using reforecast data of the QBOLAM limited area model in the frame of the HYDROCARE project

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Chairperson: RICHARDSON, D.

**11:30–11:45**; EMS2007-A-00264  
Zsoter, E.; **Göber, M.**; Richardson, D.  
Could a perfect model ever satisfy the forecaster? On areal versus point forecasts

**11:45–12:00**; EMS2007-A-00127  
**Hewson, T.D.**  
Operational application of the 'deterministic limit' concept in warning provision

**12:00–12:15**; EMS2007-A-00131  
**Bonta, I.**; Hirsch, T.; Mesterhazy, A.  
Model performance of the 2 m temperature forecasts considering the demands of energy supply

**12:15–12:30**; EMS2007-A-00012  
**Petersen, C.**; Sass, B.; Mahura, A.; Pedersen, T.  
DMI Road Weather Modelling System : Evaluation of Slippery Road Seasons

**12:30–12:45**; EMS2007-A-00358  
**Hippi, M.**; Nurmi, P.; Saarikivi, P.  
Mobile thermal and friction mapping: New means for the verification of road weather forecasts

**12:45–13:00**; EMS2007-A-00374  
**Phan, T.**  
Deriving 'value' from high impact weather forecasts – a commercial airline's perspective

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**Blanco, A.**; Juntti, H.; Lassila, T.; Österberg, K.  
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13:15–13:30; EMS2007-A-00522

**Pocernich, M.**; Holland, L.; Hally-Gottway, J.; Brown, B.  
Creating tools for forecast verification: MET and R verification package

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### FW4 Verification – Posters

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Co-Convener(s): Richardson, D., Göber, M.  
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**Authors in Attendance: Friday, 10:30–11:30**  
Poster Area Los Infantes  
Chairperson: N.N.

**P0102;** EMS2007-A-00345  
**Nurmi, P.**; Brockmann, M.  
A quarter century of operational end forecast verification

**P0103;** EMS2007-A-00199  
**Männik, A.**; **Merilain, M.**  
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**P0104;** EMS2007-A-00013  
**Mahura, A.**; Petersen, C.; Sass, B.; Holm, P.; Pedersen, T.  
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**Salvati, M.R.**; Lussana, C.; Uboldi, F.  
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**P0106;** EMS2007-A-00510  
**Minardi, G.P.;** **Salvati, M.R.**  
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**P0107;** EMS2007-A-00547  
**Aparicio, J.M.**; Deblonde, G.  
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**P0108;** EMS2007-A-00193  
**Marzban, C.**; Sandgathe, S.  
Variograms as a verification tool

**P0109;** EMS2007-A-00406  
**Malvesada, M.**; Penabad, E.; Gómez, B.; Balseiro, C.F.; Míguez-Macho, G.; Fernández, I.  
Pre-operational WRF validation in Galicia: a comparison with MM5

**P0110;** EMS2007-A-00328  
**Santana, F.**; **Chagas, G.**; Carvalheiro, L.; Correia, P.; Orgaz, M.  
Verification of the MM5 forecast model during the occurrence of hurricane Vince for Mainland Portugal

**P0111;** EMS2007-A-00646  
**Gatzelumendi, S.**; Gelpi, I. R.; Egaña, J.; Otxoa de Alda, K.  
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Convener: García-Herrera, R.  
Co-Convener(s): López-Díaz, J., Heino, R., Rebetez, M.  
Lecture Room: America  
Chairperson: LOPEZ, J.A.

**8:30–9:00;** EMS2007-A-00555  
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**9:00–9:15;** EMS2007-A-00110  
**Pommier, A.**; **Soto, D.**  
Variations of the northern Atlantic climate dynamic. Assessment at two time scales : a modern and a past one

**9:15–9:30;** EMS2007-A-00053  
**Kostopoulou, E.**; Giannakopoulos, C.; Holt, T.; Le Sager, P.  
Evaluation of downscaled ERA-40 reanalysis temperature and precipitation over the Balkan Peninsula against observational data

**9:30–9:45;** EMS2007-A-00054  
**Gómez-Gesteira, M.**; deCastro, M.; Alvarez, I.; Lorenzo, M.N.; Gómez-Gesteira, J.L.; Crespo, A.J.C.  
Upwelling changes along the Atlantic coast of the Iberian Peninsula

**9:45–10:00;** EMS2007-A-00289  
**de Lima, M.I.P.**; Coelho, M.F.E.S.; de Lima, J.L.M.P.  
Trends in precipitation: towards increased variability in Portugal?

**10:00–10:15;** EMS2007-A-00544  
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Observed and simulated temperature trends over the Iberian Peninsula over the period 1958–2000

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**Ustrnul, Z.**  
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**Spekat, A.;** Kreienkamp, F.; Enke, W.  
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**CL1 Climate change and variability in Europe, including  
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Convener: García-Herrera, R.  
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Display Time: Thursday, 08:30–Friday, 13:30  
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Poster Area Los Infantes  
Chairperson: N.N.

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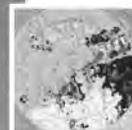
Regional tendencies of wind field in Hungary



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If you would like to suggest a topic for these meetings, please e-mail [ems-sec@met.fu-berlin.de](mailto:ems-sec@met.fu-berlin.de).

## THE CONFERENCE VENUE

San Lorenzo de El Escorial is located 50 kilometres Northwest of Madrid at an altitude of more than 1000 metres in the foothills of the mountains dividing the central plateau of Spain. The town grew around the Royal Monastery built between 1563 and 1584 by King Philip II, the second monarch of the Austrian dynasty. Traditionally, the construction of the Monastery was attributed to a promise by Philip II in compensation for a church dedicated to Saint Lawrence having been destroyed during the battle of Saint Quentin. However the main intention of the King was to build a magnificence mausoleum for his father the emperor Charles V of Germany (Charles I of Spain) and a combination of temple, pantheon, study centre and meditation refuge for himself. He lived at the Monastery for most of the last period of his ruling over an empire in four continents.

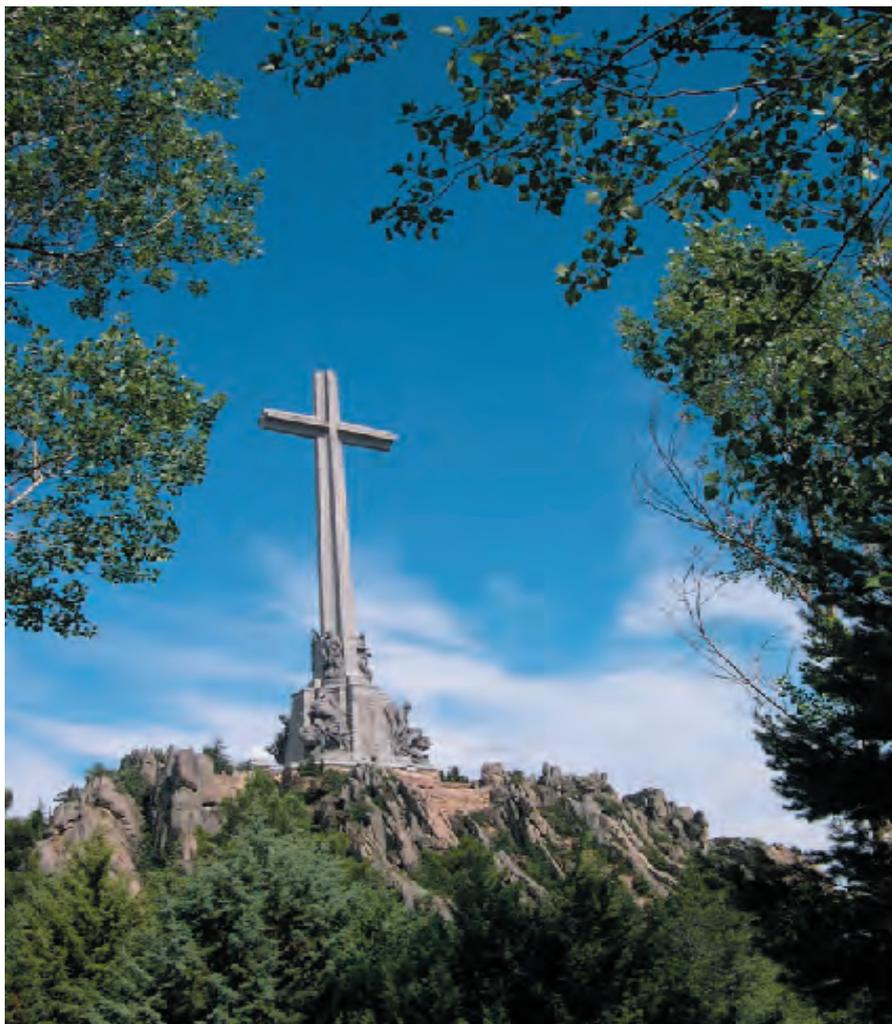
The new town was called Saint Lawrence to distinguish it from the pre-existing village of El Escorial, downhill, and the two towns still have separate councils today. The Spanish kings after Philip II preserved San Lorenzo as one of the royal sites around Madrid and most of them were buried in the Monastery. They added other historical buildings to the town and in fact the Euroforum centre, where the 7<sup>th</sup> EMS / 8<sup>th</sup> ECAM conferences are being held, was originally the “house of the Infantes” a residence for the sons of Carlos IV. The opening session will take place at the Royal University founded in the Monastery complex by María Cristina, the Austrian wife of Alphonse XII.

Besides the interest for the conference itself the town of San Lorenzo offers the visitors an historical environment and nice natural surroundings. Special conditions for the visit of the Monastery are being offered to the participants (ask for details at the reception desk). The Abantos mountain and the woods of La Herreria are ideal for trekking, cycling or horse-riding. The Golf Club and other sporting facilities in the town are available to visitors. Details can be obtained at San Lorenzo’s Tourism and Information Office located in Grimaldi Street no. 2, right in front of the entrance door to the Monastery and in the quite complete web page in English at the address: <http://www.sanlorenzoturismo.org/ingles/default2.htm>

The region surrounding San Lorenzo to the North is the very heart of the old kingdom of Castile and historical places are found at short distance such as the cities of Avila and Segovia or the Royal Palace of San Ildefonso in La Granja. The Valley of the Fallen, an impressive memorial to the victims of the civil war is less than 10 Km from the conference venue.



The coat of arms of San Lorenzo de El Escorial with the grill in remembrance to Saint Lawrence's martyrdom, the red and white colours of the Austrian dynasty and the amaryllis of the Bourbons



**Civil war memorial close to San Lorenzo de El Escorial**

