

AGENDA (04/03/08)

## **ALADIN / HIRLAM**

### **18<sup>th</sup> Workshop / All-Staff Meeting 2008**

Royal Library, Brussels, Belgium, 7 - 10 April, 2008

Sessions		
Sunday	HMG-CSSI : IRM : 12-18h	
Monday	Opening : 9h-11h	
	S1 Data assimilation : 11h-12h30	S2 Dynamics : 11h-12h30
	S1 Data assimilation (continued) : 14h30-18h00	
	Working Group : Reduced discussion group on simplified physics	
Tuesday	S3 NWP performance aspects and model physics : 8h30-11h	S4 System aspects, verification : 8h30-11h
	S3 NWP Performance aspects and model physics (continued) : 11h-12h40	S5 Probabilistic forecasting and LAMEPS : 11h-12h40
	S5 Probabilistic forecasting and LAMEPS (continued) : 14h-18h	
	Working Group on surface issues (special discussion)	
Wednesday	Hirlam side session on coherent observation impact studies	
	ALADIN	HIRLAM
Thursday	Plenary session : 9h-11h and CClosing	
	HMG-CSSI	

**Talks (including questions) : 20" each (excepted during opening session and closing session)**  
**general discussions in Sessions : 20'**

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**Sunday, 6 April: 12h-18h HMG-CSSI meeting (Royal Meteorological Institute)**

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## Monday, 7 April (Royal Library)

### 08:00-09:00 Registration

### 09:00-10:40 Lippens room : Plenary opening session. *Chair: Francois Bouyssel*

Opening of the Meeting by Dominique Fonteyn, Director General, Research Programmes and Aerospace Applications, Belgian Federal Science Policy

Welcome

Practical Arrangements for the Meeting

09:15-09:35 Jeanette Onvlee : Overview of HIRLAM status and plan

09:35-10:10 Jean-François Geleyn : Overview of ALADIN/ALARO/AROME status and plans

### 10:10-11:10 *Coffee break and poster session without introduction (Donations room)*

### 11:10 – 12:30 Lippens room: Session 1 Data assimilation and use of observations. *Chair: Maria Monteiro*

11:10-11:30 Magnus Lindskog & Jana Sanchez : Tuning of HIRLAM screening and variational quality control

11:30-11:50 Alena Trojakova : SEVIRI&SYNO data assimilation

11:50-12:10 Martin Stengel : Assimilation of Infrared Radiances into the HIRLAM Model

12:10-12:30 Claude Fischer, Bernard Chapnik, Gergely Boloni : Status of the assimilation in ALADIN

### 11:10 – 12h:30 Audiovisuelle room : Session 2 Dynamics. *Chair: Filip Vana*

11:10-11:30 Pierre Bénard : Status of the dynamics in ARPEGE/ALADIN

11:30-11:50 Mariano Hortal : HIRLAM dynamics developments

11:50-12:10 Piet Termonia : Scale-selective digital filtering initialization

12:10-12:30 General discussion

### 12:30-14:00 *Lunch*

### 14:30 – 16:10 Lippens room : Plenary Session 1 (continued) Data assimilation and use of observations. *Chair: Nils Gustafsson*

14:30-14:50 Per Uden : Preprocessing of high-resolution BUFR-format TEMP and AMDAR data

14:50-15:10 Roger Randriamampianina : ALADIN/Norway and its assimilation system

15:10-15:30 Loïk Berre : A variational assimilation ensemble and its applications

15:30-15:50 Benedikt Strajnar : Spatially varying (mean or daily) sigmab's in Aladin

15:50-16:10 Nils Gustafsson and Sigurdur Thorsteinsson : New statistical balance of moisture variable

### 16:10-16:40 *Coffee break (Donations room)*

### 16:40 – 18:00 Lippens room : Plenary Session 1 (continued) Data assimilation and use of observations. *Chair: Xiaohua Yang*

16:40-17:00 Gergely Boloni : First steps towards the application of the Ensemble Transform Kalman Filter technique at the Hungarian Meteorological Service

17:00-17:20 Jean-François Mahfouf : Current developments at Météo-France on soil analysis for ALADIN

17:20-17:40 Nils Gustafsson & Claude Fischer: 4dvar for HIRLAM & HARMONIE (progress, problems, plans)

17:40-18:00 General discussion

### 18:15 - 19:30 Lippens room : Working Group on Reduced discussion group on simplified physics.

**Tuesday, 8 April (Royal Library, 2 rooms, 8:30-19:30)**

**08:30 – 10:10 Audiovisuelle room : Session 3 NWP performance aspects and model physics. Chair: Laura Rontu**

- 08:30-08:50 François Bouyssel : Latest developments and performances in ARPEGE and ALADIN-FR  
08:50-09:10 Sander Tijm : HIRLAM physics developments  
09:10-09:30 Ludovic Auger ou François Bouttier : AROME status and plans  
09:30-09:50 Lisa Bengtsson, Sami Niemela : The impact of parametrized convection of HIRLAM on explicit convection of AROME  
09:50-10:10 Radmila Brozkova : Time-steps consistency aspects of 3MT

**08:30–10:10 Lippens room : Session 4 System aspects, verification. Chair: Martin Janousek**

- 08:30-08:50 Xiaohua Yang : Development of HIRLAM/HARMONIE monitoring system  
08:50-09:10 Ulf Andrae : The HARMONIE mini-SMS system  
09:10-09:30 Ryad El-Khatib : Status of optimization work on the NEC-SX8R at MF  
09:30-09:50 Kai Sattler : HIRLAM EPS script updates and experiments  
09:50-10:10 General discussion

**10:10-10:40 Coffee break (Donations room)**

**10:40–12:40 Audiovisuelle room: Session 3 (continued) Performance aspects and model physics. Chair: R Brozkova**

- 10:40-11:00 Luc Gérard : Advances in 3MT  
11:00-11:20 Eric Bazile : Status of the TKE and the shallow convection scheme in the MF's models  
11:20-11:40 Bent Hansen Sass : Forecast challenges on Greenland  
11:40-12:00 François Bouyssel, Patrick Le Moigne : Surfex  
12:00-12:20 Ekaterina Kurzeneva : Lake parametrization in HIRLAM  
12:20-12:40 General discussion

**10:40 – 12:40 Lippens room : Session 5 Probabilistic forecasting and LAMEPS. Chair: Yong Wang**

- 10:40-11:00 Roel Stappers : Adjoint methods in HIRLAM  
11:00-11:20 Sibbo van der Veen : Experiments with perturbed HIRLAM analyses based on singular vectors  
11:20-11:40 Christoph Wittman : the Beijing 2008 FDP/RDP project (LAMEPS Olympic Games 2008)  
11:40-12:00 Trygve Aspelien : Operational LAMEPS at Met.no  
12:00-12:20 IngerLise Frogner : Recent developments in TEPS for Europe

**12:40-14:10 Lunch**

**14:10-16:10 Lippens room : Plenary Session 5 (continued) Probabilistic forecasting and LAMEPS. Chair: Trond Iversen**

- 14:10-14:30 Andras Horanyi (in name of Edit Hagel): LAM EPS activities at HMS  
14:30-14:50 Jose Antonio Garcia-Moya : First results of GLAMEPS using the SLAF technique  
14:50-15:10 Henrik Feddersen : Physics perturbations in HIRLAM EPS  
15:10-15:30 Yong Wang : on-going research and development on LAEF  
15:30-15:50 Trond Iversen : Status of GLAMEPS

**16:10-16:40 Coffee break (Donations room)**

**16:40-18:00 Lippens room : Plenary Session 5 (continued) Probabilistic forecasting and LAMEPS. Chair: Andras Horanyi**

- 16:40-17:00 Alexander Kann: On the potential added value of calibrating LAM-EPS  
17:00-17:20 Frans Alkemade : Operational BMA calibration of PEPS ensemble  
17:20-17:40 General discussion

**18:00-19:30 : Working Group on surface issues (special discussion)**

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**Wednesday, 9 April (Royal Library, 2 rooms, 8:00-17:00)**

**09:00-17:00 Audiovisuelle room : ALADIN**

**10:30-11:00 Coffee break (Donations room)**

**11:00-12:30 : CSSI meeting**

**12:30-14:00 Lunch**

**14:00-15:00**

Jean Maziejewski & Jean-Daniel Gril : few words about newsletters, about pinuts

Maria Monteiro : Debriefing of Lisbon AROME training course

ALADIN national posters session (without presentation)

ALADIN-Dz : none

ALADIN-At : National Poster Austria : Christoph Wittmann

ALADIN-Bg : Status of operational application in Bulgaria : Andrey Bogatchev

ALADIN-Hr : Hr related activities in (S. Ivatek-Šahdan, T. Kovačić, A. Bajić)

ALADIN-Cz : Martin Janousek : ALADIN status at CHMI

ALADIN-Fr : Bernard Chapnik & Olivier Rivière

ALADIN-Hu : operational and research activities : Kullman Laszlo

ALADIN-Pl : Marek Jerczynski : ALADIN at IMWM in 2007

ALADIN-Pt : National Poster

ALADIN-Ro : ALADIN National Poster : Doina Banciu

ALADIN-Sk : ALADIN related activities at CHMU : Michal Nestiak

ALADIN-Si : Neva Pristov : operational ALADIN in Slovenia 2008

ALADIN-Tr : National poster of Turkey : Ersin Kucukkaraca

Meeting museum poster : Patricia Pottier

**15:00-17:00 : LTM meeting**

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**09:00-17:00 Lippens room : HIRLAM**

**09:00-10:30 : Hirlam side session on coherent observation impact studies : Chair: Nils Gustafsson**

**10:30-11:00 Coffee break (Donations room)**

**11:00-12:40 : HIRLAM internal presentations : Chair: Jeanette Onvlee**

11:00-11:20 Jón Egill Kristjánsson, Sigurdur Thorsteinsson and Erik Kolstad : A case study of a Polar Low under the influence of Greenland's orography

11:20-11:40 Javier Calvo : Updates to Kain-Fritsch convection in HIRLAM

11:40-12:00 Karl-Ivar Ivarsson : Recent development of the Rasch-Kristjansson scheme in HIRLAM

12:00-12:20 Laura Rontu : Testing HIRLAM surface and orography parametrizations

12:20-12:40 Morten Køltzow : HIRLAM coupled to the ocean wave model WAM

**12:40-14:30 Lunch**

**14:30-16:20 HIRLAM internal presentations (continued) : Chair: Jeanette Onvlee**

14:30-14:50 Tomas Wilhelmsson : Recent performance improvements in HIRLAM 4D-VAR

14:50-15:10 Kalle Eerola : Long-term verification of HIRLAM at FMI

15:10-15:30 Markku Kangas : Status of operational HIRLAM mast verification

15:30-15:50 Eoin Whelan : Met-Eireann experiences upgrading to HIRLAM version 7.0

15:50-16:10 Xiaohua Yang : Annual report of operational HIRLAM

16:10-16:20 Tilly Drienaar : Introduction of the new HIRLAM scientific secretary

**16:20-17:00 Coffee, poster session (Donations room)**

**19:00 Dinner (offered by RMI)**

**Thursday 10 April (Royal Library, 1 Room, 8:00-17:00)**

**09:00-11:00 : Lippens room : Plenary session. *Chair: Per Uden***

- 09:00-09:20 Vesa Nietosvaara : How to bring modellers and forecasters together –Eumetcal plans
- 09:20-09:30 Reporting back on outcome of HMG-CSSI meeting : 45'
- 09:30-09:40 Reporting back on outcome of session 1 by chairpersons
- 09:40-09:50 Reporting back on outcome of session 2 by chairpersons
- 09:50-10:00 Reporting back on outcome of session 3 by chairpersons
- 10:00-10:10 Reporting back on outcome of session 4 by chairpersons
- 10:10-10:20 Reporting back on outcome of session 5 by chairpersons
- 10:20-11:00 General discussion, date and place of next WK/ASM meetings

**11:00. Close of Meeting.**

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**Thursday 10 April (Royal Library) : 14h-17h HMG-CSSI meeting**

## Participants

Dz Algeria	Bachir Hamadache	1	Dk Denmark DMI	Henrik Feddersen Bent Hansen Sass Kai Sattler Xiaohua Yang	4
At Austria	Alexander Kann Sabine Leroch Yong Wang Christoph Wittmann	4	Es Estonia EMHI	Aarne Männik	1
Be Belgium	Bart Catry Alex Deckmyn Luc Gérard Rafiq Hamdi Jean Neméghaire Piet Termonia Josette Vanderborcht	7	Fi Finland FMI	Kalle Eerola Carl Fortelius Sylvain Joffre Markku Kangas Sami Niemela Vesa Nietosvaara Laura Rontu	7
Bg Bulgaria	Andrey Bogatchev	1	Is Iceland	Sigurdur Thorsteinsson	1
Hr Croatia	Alica Bajic Dijana Klaric Tomislav Kovacic Kristian Horvath	4	Ie Ireland	Aidan McDonald Alastair McKinstry Tido Semmler Honore Tapamo Eoin Whelan	5
Cz Czech Republic	Radmila Brozkova Ales Farda Martin Janousek Petra Smolikova Alena Trojakova Filip Vana	6	Nl Netherlands KNMI	Frans Alkemade Jan Barkmeijer Gerrit Burgers Tilly Driesenaar Toon Moene Jeanette Onvlee Roel Stappers Sander Tijm Sibbo van der Veen John de Vries	10
Fr France	Ludovic Auger Eric Bazile Pierre Bénard Loïk Berre François Bouttier François Bouyssel Bernard Chapnik Jean-François Geleyn Jean-Daniel Gril Ryad El Khatib Claude Fischer Patrick Le Moigne Jean-François Mahfouf	16	Norway	Trygve Aspelien Inger-Lise Frogner Mariken Homleid Trond Iversen Morten Køltzow Roger Randriampianina Ole Vignes	7

	Jean Maziejewski Patricia Pottier Olivier Rivière				
Hu Hungary	Gergely Boloni Andras Horanyi Kullman Laszlo	3	Spain AEMET	Javier Calvo Jose Antonio Garcia-Moya Carlos Geijo Estrella Gutierrez-Marco Mariano Hortal	5
Ma Morocco	Karam Essaouini Hassan Haddouch	2	Sweden SMHI	Ulf Andrae Lisa Bengtsson Per Dahlgren Stefan Gollvik Nils Gustafsson Karl-Ivar Ivarsson Magnus Lindskog Lars Mueller Martin Stengel Per Undén Tomas Wilhelmsson	11
Pl Poland	Marek Jerczynski Jadwiga Woyciechowska	2	Russia RSHU	Ekaterina Kourzenova Suleiman Mostamandy	2
Pt Portugal	Maria Monteiro Victor Prior Joao Rio	3	Lt (associated)		
Ro Romania	Doina Banciu	1	Lv (associated)		
Sk Slovaquie	Martin Benko Michal Nestiak Jozef Vivoda	3			
Si Slovenia	Jure Cedilnik Neva Pristov Benedikt Strajnar	3			
Tu Tunisia					
Tr Turkey	Ersin Kucukkaraca	1			
total		57			53

### **Posters (different from ALADIN national posters):**

- Bent Hansen Sass : NWP development at DMI
- Henrik Feddersen : Impact of adding stochastic physics to HIRLAM EPS: some case studies
- Carlos Geijo : Assimilation of AMV data in HIRLAM
- Estrella Gutierrez-Marco : HIRLAM status at the Spanish Meteorological Agency
- Aarne Männik : Operational HIRLAM system at EMHI
- Toon Moene : Operational HIRLAM experiences at KNMI
- Lars Mueller : SMHI operational HIRLAM
- Roger Randriamampianina : Implementation of IASI data in ALADIN/Norway
- Roger Randriamampianina : Sensitivity of the ALADIN/Norway analysis and forecast systems to different observations
- Laura Rontu : Orographic parametrizations in HIRLAM
- Kai Sattler : Test of enhanced soil type determination in HIRLAM
- A. Mahura, C. Petersen, A. Baklanov, B. Amstrup : Evaluation of Building Effect Parametrization Module for Urbanized Numerical Weather Prediction Modelling :
- Operational HIRLAM system at Met Éireann : Eoin Whelan
- A severe weather event in Romania – case study : Doina Banciu
- Refinement of INCA with special emphasis on humidity and precipitation : Sabine Leroch
- Model ALADIN in Climate Research : Ales Farda
- Experiments with AROME model at HMS : Kullman Laszlo
- Offline version of SURFEX: A tool to improve the SYNOP scores on T2m and H2m in winter: Rafiq Hamdi
- Karam Essauini & Hassan Haddouch: First AROME RUN ON IBM RS/6000SP in MOROCCO