

AGENDA (14/5/09)

## **ALADIN / HIRLAM**

### **19<sup>th</sup> Workshop / All-Staff Meeting 2009**

Centraal Museum, Utrecht, the Netherlands, 12 - 15 May, 2009

Sessions	
Monday	HMG-CSSI : KNMI: 12-18h
Tuesday	Opening : 9h-11h S1 Data assimilation : 11-12h40, 14h30-16h30 Poster session: 17h-18h15 ~18h30: Reception/ice breaker at City Hall
Wednesday	S2: Probabilistic forecasting and LAMEPS 9h-12h30 S3: Model physics: 14h-18h10
Thursday	S4: Dynamics: 9h-10h10 S5: System aspects and verification: 10h50-12h30 HIRLAM separate program: 14h-17h30 (room 1) ALADIN separate program: 14h-18h (room2) Dinner at restaurant Oude Tolhuis
Friday	Plenary session and closing: 9h30-12h HMG-CSSI wrap-up meeting: 14h-18h, KNMI

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

**Monday, 11 May: 12h-18h HMG-CSSI meeting (Royal Netherlands Meteorological Institute)**

**Tuesday, 12 May (Centraal Museum, 8:30-18:15)**

**08:30-09:00 Registration**

**09:00-10:30 Plenary opening session. Chair: Carl Fortelius**

Opening of the Meeting

Welcome

Practical arrangements for the meeting

09:10-09:30 Jean-François Geleyn : Overview of ALADIN status and plans

09:30-09:50 Yann Seity : Overview of AROME status and plans

09:50-10:10 Jeanette Onvlee : Overview of HIRLAM status and plans

10:10-10:30 Dijana Klaric : Highlights of RC LACE actions 2008/2009

**10:30-11:00 Coffee break**

**11:00 – 12:20 Plenary session: Session 1: Data assimilation and use of observations. Chair: Gergely Boloni**

11:00-11:20 : Jean-François Mahfouf : SURFEX and SEKF assimilation tools

11:20-11:40 : Magnus Lindskog : SMHI HARMONIE data assimilation using local observations

11:40-12:00 : Jelena Boranova : An ETKF rescaling scheme to be applied in a hybrid variational ensemble data assimilation for HIRLAM

12:00-12:20 : Thibaut Montmerle : data assimilation in operational AROME (Doppler winds mainly)

12:20-12:40 : Eric Wattrelot : 1D+3DVar assimilation method of reflectivities

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

**14:30 – 16:30 Plenary session: Session 1 (continued): Data assimilation and use of observations. Chair: Ole Vignes**

14:30-14:50 : Roger Randriamampianina : Assimilation of IASI radiances in HARMONIE

14:50-15:10 : Gergely Boloni : Recent data assimilation activities at HMS

15:10-15:30 : Kirsti Salonen : Towards the operational use of radar radial wind observations in HIRLAM

15:30-15:50 : Olivier Rivière : Inclusion of moist process in ARPEGE/ALADIN simplified physics

15:50-16:10 : Reima Eresmaa : Impact of GPS data in HIRLAM 3D-VAR

16:10-16:30 : General discussion

16:30-16:40 : Introduction demonstration 3D visualization

**16:40-17:00 Coffee break**

**17:00 – 18:15 : Poster session**

**18:15 – 20:00 : Walk to City Hall, reception/ice breaker**

**Wednesday, 13 May (Centraal Museum, 9:00-18:10)**

**09:00 - 10:20 Plenary session: Session 2: Probabilistic forecasting and LAMEPS. Chair: Alex Deckmyn**

09:00-09:20 : Trond Iversen : Configuring GLAMEPS

09:40-10:00 : Inger-Lise Frogner : EuroTEPS

10:00-10:20 : Florian Weilde : Impact of ECMWF-EPS Clustering on Initial Perturbations of ALADIN-LAEF at ZAMG

**10:20-10:50**

**Coffee break**

**10:50 – 12:30 Plenary session: Session 2 (continued): Probabilistic forecasting and LAMEPS. Chair : Trond Iversen**

10:50 -11:10 : Roel Stappers : CAPE singular vectors

11:10 -11:30 : Åke Johansson : ETKF rescaling scheme for HIRLAM application to ensemble forecasting

11:30 -11:50 : Lovro Kalin : calibration of ALADIN EPS precipitation forecasts

11:50 -12:10 : Henrik Feddersen and Kai Sattler : Verification of a set of GLAMEPS ensemble experiments

12:10 -12:30 : General discussion

**12:30-14:00**

**Lunch**

**14:00 – 16:00 Plenary session: Session 3: Performance aspects and model physics. Chair: Laura Rontu**

14:00-14:20 : Jan Barkmeijer : Experience with a strong outflow case in HARMONIE

14:20-14:40 : Jean-François Mahfouf : Operational SURFEX in ALADIN

14:40-15:00 : Kristian Pagh Nielsen : Verification of Hirlam/Aladin cloud forecasts with MSG cloud physical products

15:00-15:20 : Eric Bazile & Yves Bouteloup : last operational changes and perspectives for physics in ARPEGE/ALADIN

15:20- 15:40 : Wim de Rooy : Lateral mixing in shallow convection: in theory and in practice

15:40-16:00 : Jean-François Geleyn : Towards a common framework for (i) extensions of the Louis formalism, (ii) the RANS aspect of the QNSE theory and (iii) the class of 'No Ri(cr)' Reynolds-type prognostic TKE schemes?

**16:00-16:30**

**Coffee break**

**16:30-18:00 Plenary session: Session 3 (continued): Performance aspects and model physics Chair: Bart Catry**

16:30-16:45 : Javier Calvo : Verification of wind gust forecasts

16:45-17:05 : Tomas Kral : Revitalization of gaseous transmission functions in ACRANEb radiation scheme utilizing RRTM database

17:05-17:20 : Bent Hansen Sass : Limitation of column physics and a proposal to solve that in the HIRLAM framework

17:20-17:35 : Laszlo Kullmann : New interpolation formula in stable situation for the calculation of diagnostic fields at measurement height

17:35-17:50 : Evgeni Atlaskin : Validation of 2m temperature forecasts by different NWP models

17:50-18:00 General discussion

**14:00-15:00 Side meeting on web sites (Room 3)**

**18:15-19:30 : Side meeting on HIRLAM CIS**

**Thursday, 14 May (Centraal Museum, 2 rooms, 9:00-18:15)**

**09:00-10:10 Plenary session : Session 4: Dynamics. Chair: Josef Vivoda**

09:00-09:20 : Mariano Hortal (on behalf of Juan Simarro and Isabel Martinez) : NH VFE, map factor

09:20-09:40 : Piet Termonia : Some issues about the lateral boundaries

09:40-10:00 : Filip Vana : New interpolation for SL(HD)

10:00-10:10 : General discussion

**10:10-10:40**

**Coffee break**

**10:40-12:30 Plenary session : Session 5: System aspects and verification. Chair: Mariano Hortal**

- 10:40-11:00 : Ulf Andrae : Nightly builds and daily runs: the HARMONIE testbed  
11:00-11:20 : Ryad El Khatib : Profiling ARPEGE/ALADIN/AROME  
11:20-11:40 : Toon Moene : Review of HIRLAM work on the SRNWP/Interoperability project  
11:40-12:00 : Andras Horanyi : ALADIN-Climate: latest achievements at the Hungarian Meteorological Service  
(on behalf of Gabriella Csima)  
12:00-12:20 : Sami Niemela : Verification of high-resolution precipitation forecasts by using the SAL method  
12:20-12:30 : General discussion

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

**14:00-17:20 Room 1: HIRLAM**

**14:00-16:00 HIRLAM internal presentations : Chair: Sander Tijm**

- 14:00-14:20 Tomas Wilhelmsson : 4D-VAR optimization efficiency tuning  
14:20-14:40 Karl-Ivar Ivarsson : The impact of cloud condensation nucleus concentration on clouds and precipitation in Hirlam  
14:40-15:00 Mariken Homleid : SST and sea ice in HIRLAM and HARMONIE  
15:00- 15:20 Kalle Eerola : A case study: why did two Hirlam versions differ by 20 hPa in the snow storm case in November  
15:20-15:40 Morten Køltzow : HIRLAM coupled to the wave model WAM. Verification and improvements in forecast skill  
15:40-16:00 Tilly Driesenaar : HIRLAM web site redesign

**16:00-16:30 Coffee/Tea**

**16:30-17:20 HIRLAM internal presentations (cont.) : Chair: Jeanette Onvlee**

- 16:30-17:00 Xiaohua Yang : Annual review of operational HIRLAM forecasts; HIRLAM common monitoring and model intercomparison interface  
17:00-17:20 General discussion

**14:00- 18:00 Room 2 : ALADIN meeting(s)**

- 14:00 - 14:30 ALADIN internal presentations  
Patricia Pottier : New aladin website  
Jean-Daniel Gril : FA files, Pinuts, status of MERCATOR rotated tilted  
14:30 - 16:00 LTM meeting

**16:00-16:30 Coffee/Tea**

- 16:30 - 18:00 CSSI meeting

**19:00 Dinner at restaurant Oude Tolhuis (offered by KNMI)  
(18:15 departure of bus in front of Centraal Museum)**

**Friday 15 May (Centraal Museum, 9:15-12:00)**

**09:00-10:30 : Plenary closing session. Chair: Claude Fischer**

09:00 – 09:20 Andras Horanyi : The Short Range Numerical Weather Prediction Network of EUMETNET: a status report  
 09:20 – 09:40 Daan Degrauwe: CHAPEAU – common Hirlam-Aladin Package for Education and other Academic Use  
 09:40 – 10:00 Reporting back on outcome of HMG-CSSI meeting : 20'  
 10:00 – 10:10 Reporting back on outcome of session 1 by chairpersons : 10'  
 10:10 – 10:20 Reporting back on outcome of session 2 by chairpersons : 10'  
 10:20 – 10:30 Reporting back on outcome of session 3 by chairpersons : 10'

**10:30-11:00** *Coffee*

**11:00-12:00 : Plenary closing session. Chair: Claude Fischer**

11:00 – 11:10 Reporting back on outcome of session 4 by chairpersons : 10'  
 11:10 – 11:20 Reporting back on outcome of session 5 by chairpersons : 10'  
 11:20 – 11:40 Reporting back on side meetings : 20'  
 11:40 – 12:00 General discussion : 20'

**12:00. Close of Meeting.**

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**Friday 15 May (KNMI) : 14h-18h HMG-CSSI meeting**

**Participants:**

Dz Algeria	Razagui Abdelhak	1	Dk Denmark DMI	Bjarne Stig Andersen Henrik Feddersen Kristian Pagh Nielsen Bent Hansen Sass Xiaohua Yang	5
At Austria	Yan Xin Wittmann Christoph Weidle Florian	3	Es Estonia EMHI	Aarne Männik	1
Be Belgium	Catry Bart Deckmyn Alex Degrauwe Daan Hamdi Rafiq Smet Geert Termonia Piet	6	Fi Finland FMI	Kalle Eerola Reima Eresmaa Carl Fortelius Sylvain Joffre Sami Niemelä Laura Rontu Kirsti Salonen	7
Bg Bulgaria	Bogatchev Andrey	1	Ic Iceland		
Hr Croatia	Ivatek-Šahdan Stjepan Kalin Lovro Klaric Dijana Kovacic Tomislav Stanesic Antonio Tudor Martina	6	Ir Ireland	Alastair McKinstry Tido Semmler Eoin Whelan	3

Cz Czech Republic	Farda Aleš Kral Tomas Trojakova Alena Vana Filip	4	No Norway	Trygve Aspelién Jelena Bojarova Inger-Lise Frogner Mariken Homleid Trond Iversen Morten Køltzow Roger Randriamampianina Ole Vignes	8
Fr France	Bazile Eric Berre Loïk Bouteloup Yves Bouttier Francois El Khatib Ryad Fischer Claude Geleyn Jean-François Gril Jean-Daniel Kerdraon Gaëlle Mahfouf Jean-François Maziejewski Jean Montmerle Thibaut Pottier Patricia Rivière Olivier Seity Yann Wattrelot Eric	16	NL Netherlands	Jan Barkmeijer Cisco de Bruijn Gerrit Burgers Gerard Cats Tilly Driesenaar Gertie Geertsema Siebren de Haan Albert Jacobs Michal Koutek Frank Lantsheer Kees Lemcke Toon Moene Ian van der Neut Jeanette Onvlee Heleen ten Pelkwijk Wim de Rooij Roel Stappers Gert-Jan Steeneveld Sander Tijn Sibbo van der Veen Wim Verkleij	21
Hu Hungary	Boloni Gerlely Kullman Laszlo	2	Spain	Javier Calvo Jose-Antonio Garcia-Moya Mariano Hortal	3
Ma Morocco		0	Sweden	Ulf Andrae Lisa Bengtsson Nils Gustafsson Karl-Ivar Ivarsson Åke Johansson Magnus Lindskog Lars Mueller Tomas Wilhelmsson	8
Pl Poland	Jerczynski Marek	1	Lithuania (associated)	Martynas Kazlauskas	1
Pt Portugal	Lopes Manuel Monteiro Maria	2	Latvia (associated)		
Ro Romania	Banciu Doina	1	Russia RSHU	Evgeni Atlaskin Suleyman Mostamandy	2
Sk Slovakia	Bastak Duran Ivan Benko Martin Nestiak Michal Spaniel Oldrich	5			

	Vivoda Jozef			
Si Slovenia	Cedilnik Jure Pristov Neva Strajnar Benedikt	3		
Tu Tunisia		0		
Tr Turkey	Küçükkaraca Ersin Toros Hüseyin	2		
SRNWP	Andras Horanyi	1		
Total		54		60

## Posters

- Bajić, S. Ivatek-Šahdan and K. Horvath: Dynamical downscaling of wind resources in complex terrain of Croatia
- Doina Banciu: Aladin status in Romania
- Cisco de Bruijn : Application of FLake for the prediction of ice thickness for inland waters in the Netherlands
- Bašták Ďurán : From 'p-TKE' to 'e-TKE': suppressing restrictive conditions, validating the extension of the ALARO-0 approach and exploring links with other methods
- Aleš Farda : ALADIN-Climate/CZ at CHMI
- Carl Fortelius : Stability-dependent roughness in calculating 10m wind speed
- Rafiq Hamdi : Effects of historical urbanization in the Brussels Capital Region on surface air temperature time series: a model study
- Stjepan Ivatek-Sahdan : Operational Aladin in Croatian meteorological and hydrological service
- Ersin Küçükkaraca : National Poster Turkey
- Maria Monterio & Manuel Lopes : ALADIN - technical and scientific modelling activities in Portugal
- Michal Nestiak : ALADIN related activities at SHMI
- Neva Pristov & Benedikt Strajnar : Operational ALADIN in Slovenia
- Miklos Voros : Recent developments and changes in the operational ALADIN/HU system
- Roger Randriamampianina : Improvements on the assimilation of satellite data in the HARMONIE system
- Roger Randriamampianina : Plan for the high-resolution HARMONIE assimilation system at Met.no
- Antonio Stanesic : Application of ALADIN 3DVAR and CANARI in Croatia
- Jozef Vivoda : Progress in development of vertical finite element discretisation of ALADIN NH dynamical core
- Eoin Whelan : NWP at MetEireann
- Christoph Wittmann : National poster Austria
- Loik Berre : Applications of the MF operational ensemble var assimilation to ARPEGE/ALADIN
- Jose-Antonio Garcia-Moya : Verification of SREPS precipitation forecast over Europe
- Laura Rontu : Recent developments in orography and surface-related parametrizations
- Alena Trojakova : BlendVar – an assimilation system at ALADIN/CE
- Sibbo van der Veen : Cloud advection and the relation between vertical motions and cloud cover in the free atmosphere
- Miklos Vöros : Use of ECMWF LBC and surface assimilation for operational ALADIN/HU
- Xin Yan : First results of ALADIN data assimilation at ZAMG
- Rafiq Hamdi : Effects of historical urbanization in the Brussels Capital Region on surface air temperature time series: a model study
- Jure Cedilnik : Analysis of LandSAF albedo product for ALADIN
- Gaëlle Kerdraon & Olivier Rivière : the regional NWP systems at Météo-France