

HIRLAM/ALADIN

All-Staff Meeting/ Workshop, 2007

CIENS building, Gaustadalleen 21, Oslo, Norway, 23 - 26 April, 2007

Sunday, 22 April: 10h-18h HMG-CSSI meeting

Monday, 23 April

08:00-09:00 Registration

09:00-13:00 Plenary opening session. Chair: Per Unden

Opening of the Meeting

Welcome address by Anton Eliassen, met.no Director

Practical Arrangements for the Meeting

09:15-09:35 Jean-Francois Geleyn: Overview of ALADIN status and plans

09:35-09:55 Jeanette Onvlee: Overview of HIRLAM status and plans

09:55-10:15 François Bouttier: AROME status and plans

10:15-10:40 Nils Gustafsson and Claude Fischer: joint plans on mesoscale data assimilation

10:40-11:10 Coffee-break

Plenary opening session (cont.). Chair: Dijana Klaric

11:10-11:35 Radmila Brozkova: Recent status of ALARO-0

11:35-12:00 Trond Iversen: Overview of probabilistic forecasting efforts in HIRLAM

12:00-12:10 Jeanette Onvlee: SRNWP proposal and status

12:10-12:20. Trond Iversen: EurEPS proposal and status

12.20-12:30. François Bouttier: Interoperability proposal and status

12:30-13:00. short poster presentations (except ALADIN national posters)

13:00-14:30. Lunch

14:30 – 18:00 Room 1: Session 1: Data assimilation and use of observations. Chair: Nils Gustafsson

14:30-14:50 Andrea Storto and Magnus Lindskog : Experiences with the ALADIN 3D-VAR

14:50-15:10 Sandor Kertesz (presented by Gergely Boloni) : First results by the ALADIN 3FGAT scheme in Hungary

15:10-15:30 Ole Vignes: Balance equations as background constraints in variational assimilation

15:30-15:50 Roger Randriamampianina, Gergely Boloni : Latest developments related to

3D-VAR data assimilation at HMS

15:50-16:20. Coffee-break

Room 1: Session 1: Data assimilation (cont.). Chair: Andras Horanyi

- 16:20-16:40 Carlos Geijo: Assimilation of MODIS AMV's in HIRLAM 7.1
16:40-17:00 Mariken Homleid: Use of OSI SAF sea ice and SST in HIRLAM's surface analysis
17:00-17:20 Ludovic Auger : ALADIN assimilation experiments and 10m wind
17:20-17:40 Benedikt Strajnar : A comparison between dynamic adaptation and mesoscale analysis methods for initial conditions for ALADIN over Slovenia
17:40-18:00 General discussion

14:30 – 18h:00 Room 2: Session 2: Dynamics. Chair: Radmila Brozkova

- 14:30-14:50 Piet Termonia : Dynamics : report and plans on the time-step organisation, LBC's and MCFU
14:50-15:10 Jan Masek : Diagnostic tool for lateral coupling
15:10-15:30 Martina Tudor : Semi-Lagrangian coupling of physics to dynamics
15:30-15:50 Mariano Hortal: HIRLAM dynamics activities

15:50-16:20 Coffee-break

Room 2: Session 2: Model dynamics (cont.). Chair: Mariano Hortal

- 16:20-16:40 Filip Vana : Recent status of SLHD
16:40-17:00 Jan Masek : New interpolators for SLHD scheme
17:00-17:20 Jozef Vivoda : First results with VFE scheme NH ALADIN
17:20-17:40 Ulf Andrae: Daily runs with ALADIN/AROME
17:40-18:00 General discussion

Tuesday, 24 April

08:30 – 13:10 Room 1: Session 3: Model Physics. Chair: Laura Rontu

- 08:30-08:45 Sander Tilm: HIRLAM physics developments overview
08:45-09:05 Jean-Marcel Piriou : Status of 3MT
09:05-09:25 Bjarne Stig Andersen: Semi-operational ALADIN forecasts at DMI using AROME and HIRLAM physics
09:25-09:45 Eric Bazile : TKE + QPF scores
09:45-10:05 Sami Niemela: Convective precipitation in AROME
10:05-10:25 Jure Cedilnik: Validation of microphysics without convection part
10:25-10:40 Stefan Gollvik: Some experiments on surface analysis influence on the lower atmosphere.

10:40-11:10. Coffee-break

Room 1: Session 3: Model Physics (cont.). Chair: Francois Bouyssel

- 11:10-11:30 Neva Pristov : Statistical method used in thermal radiation
11:30-11:50 Laura Rontu: HIRLAM in Sodankyla and Vatnajokull

11:50-12:10 Ekaterina Kourzeneva: Lakes in HIRLAM: first steps
12:10-12:30 Patrick Le Moigne : Surface analysis, ECOCLIMAP
12:30-12:50 Jean-Marcel Piriou & Tomislav Kovacic : DDH
12:50-13:10 General discussion

08:40–13:10 Room 2: Session 4: System aspects, verification. Chair: Maria Monteiro

08:40-09:00 Martina Tudor: DART project and preliminary results
09:00-09:20 Lovro Kalin : Comparison of ALADIN and ALARO forecasts in Croatia
09:20-09:40 Ulf Andrae: Introduction of the HARMONIE system
09:40-10:00 Sandor Kertesz (presented by Gergely Boloni) : Experiments with the use of ECMWF lateral boundary conditions for the ALADIN/HU model
10:00-10:20 Per Uden: Archiving in MARS
10:20-10:40 Kai Sattler: On the ensemble mode in HIRLAM 7.1

10:40-11:10 Coffee-break

Room 2: Session 4: System aspects, verification (cont.). Chair: Ole Vignes

11:10-11:30 Alex Deckmyn : Downscaling the ERA-40 re-analysis to the Belgian domain using ALADIN
11:30-11:50 Thor-Erik Nordeng: The performance of the operational 4km resolution HIRLAM and UM runs at met.no
11:50-12:10 Alex Deckmyn : Rfa: an advanced package for analysis of ALADIN data
12:10-12:30 Rafiq Hamdi : Improving the SURFEX/TEB scheme : 1-D validation in a street canyon
12:30-12:50 Aarne Mannik: Verification of different precipitation forecasts during extended winter season in Estonia
12:50-13:10 General discussion

13:10-14:30 Lunch

14:30-18:00 Room 1: Session 5: Probabilistic forecasting. Chair: Jan Barkmeijer

14:30-14:50 Yong Wang: Recent developments in ALADIN-LACE on LAM-EPS
14:50-15:10 Jose Antonio Garcia-Moya: Multi-model ensemble at INM. Status and verification
15:10-15:30 Andras Horanyi: The contribution of ALADIN Partners to the GLAMEPS project
15:30-15:50 Carlos Santos: Verification of INM multi-model ensemble precipitation forecasts against European rain gauge networks

15:50-16:20 Coffee/tea break

Room 1: Session 5: Probabilistic forecasting (cont.). Chair: Jose Antonio Garcia-Moya

16:20-16:40 John Bjørnar Bremnes: Statistical calibration of precipitation ensembles
16:40-17:00 Jan Barkmeijer: Singular vectors in HIRLAM
17:00-17:20 Alexander Kann : Status of the pre-operational ALADIN-LAEF system
17:20-17:40 Inger-Lise Frogner: Combination of EPS/TEPS
17:40-18:00 General discussion

14:30-18:00 Room 2: Session 6: Applications, demonstration session. Chair: Jure Cedilnik

14:30-14:50 Oldrich Spaniel: Questionnaire on tools used in the ALADIN/HIRLAM world
14:50-15:10 Jean-Daniel Gril: Pinuts utilities

15:10-15:30 Martin Janousek: CHAGAL graphics
15:30-15:50 Lisbeth Bergholt: DIANA

15:50 -16:20 *Coffee/tea break*

Room 2: Session 6: Applications, demonstration session (cont.). Chair: Xiaohua Yang

16:20-16:35 Carlos Santos: INM Ensemble monitoring and verification tools
16:35-16:50 Ulf Andrae: HARMONIE monitoring tools
16:50-17:05 Kalle Eerola: Verification graphics.
17:05-17:20 Mariano Hortal: PrepIFS developments
17:20-18:00 General discussion, demonstrations in detail

18:15-19:30 : Working Group number 1 on surface issues (consistency and interface issues between atmosphere and surface models)

Wednesday, 25 April

09:00-13:00 Room 1: HIRLAM. Chair: Jeanette Onvlee

09:00-09:20 Magnus Lindskog: Coherent observation impact studies
09:20-09:35 Bent Hansen Sass (presented by Bjarne Stig Andersen): Recent STRACO developments
09:35-09:50 Javier Calvo: The Kain-Fritsch convection in HIRLAM. Present status and prospects
09:50-10:05 Karl-Ivar Ivarsson: The Rasch Kristjansson large scale condensation. Present status and prospects
10:05-10:20 Sander Tijm: The STRACO – KF-RK intercomparison
10:20-10:40 Xiaohua Yang: Reference System developments

10:40-11:10 *Coffee/tea break*

11:10-11:30 Kalle Eerola: On the performance of HIRLAM 7.1
11:30-11:50 Xiaohua Yang: Reference verification upgrade and model intercomparison
11:50-12:10 Jacob Weisman Poulsen: Source code overhaul
12:10-12:30 Tomas Wilhelmsson: One year of subversion: lessons and future plans
12:30-13:00 Xiaohua Yang: General overview of national HIRLAM systems

13:00-14:30 *Lunch*

14:30-17:30 Discussion sessions
14:30-15:00 Introduction by the animators
- coherent observation impact studies with 3/4DVAR
- verification
- mesoscale physics development strategy
15:00-16:00 Discussion in subgroups

16:00 – 16:30 *Coffee/tea break*

16:30-17:30 Reporting of subgroups, plenary discussion.

Room 2 : ALADIN

9:00-10:30 : CSSI meeting

10:30 – 11:00 *Coffee/tea break*

11:00-13:00 **Room 2: ALADIN. Chair: Martin Janousek**

11:00-11:10 Jean Maziejewski and Patricia Pottier : Toulouse Support team presentation

11:10-11:30 Ryad El Khatib and Claude Fischer: Tools on new MF computer : how partners will work on NEC

11:30-11:50. Francois Bouyssel: SURFEX implementation

11:50-12:10 Jure Jerman : Current status of ALADIN Verification Project (AVP)

12:10-12:30 Sabine Leroch : The ALADIN/INCA nowcasting system : status and operational experience

12:30-13:00 Introduction to ALADIN national posters

13:00-14:30 *Lunch*

14:30-16:00 : LTM meeting

16:00 – 16:30 *Coffee/tea break*

16:30-18:10 Jean-Francois Geleyn : Debriefing of Radostovice ALARO training course

17:30-18:30 GLAMEPS discussion (common to HIRLAM and ALADIN)

19:00 *Dinner (offered by met.no)*

Thursday 26 April:

Plenary session. Chair: Claude Fischer

9:00-9:20 Jeanette Onvlee: Reporting back on outcome of HMG-CSSI meeting

9:20-9:40 (tbd): Overview of WG on mesoscale validation activities

9:40-10:00 Jean-François Geleyn : Overview of WG on surface issues

10:00-10:20 Andras Horanyi : Report of GLAMEPS discussion

10:20-10:50 *Coffee/tea break*

Plenary session. Chair: Trond Iversen

10:50-11:05 reporting back on outcome of session 1 by chairpersons

11:05-11:20 reporting back on outcome of session 2 by chairpersons

11:20-11:35 reporting back on outcome of session 3 by chairpersons

11:35-11:50 reporting back on outcome of session 4 by chairpersons

11:50-12:05 reporting back on outcome of session 5 by chairpersons

12:05-12:20 reporting back on outcome of session 6 by chairpersons

12:20-13:00 general discussion and closure

13:00. Close of Meeting.

Poster presentations:

Reima Eresmaa, Kirsti Salonen, Sami Niemela: Local asymmetry in ground-based GPS slant delay data

Estrella Gutierrez Marco: HIRLAM implementation at INM

Bachir Hamadache: Forecasting dust with ETA model

Andras Horanyi: Research activities at the HMS

INM probabilistic forecasting group:

- Calibration of SREPS using BMA
- Verification of a hybrid short-range EPS
- Probabilistic forecast based on the HIRLAM deterministic model
- Time-lagged superensemble based on INM-SREPS

Paulius Jalinskas: Pre-operational HIRLAM runs at LHMT

Tomas Landelius: Using wavelets to replace OI with VAR in a mesoscale analysis system

Richard Mladek: Downscaling of ARPEGE global ensembles (PEARP) by ALADIN model – heavy rain case study

Raluca Radu: Spectral nudging scheme for ALADIN climate

Kirsti Salonen: The use of Doppler radar radial winds in model validation

Martin Stengel: Assimilation of SEVIRI Infra-Red Radiances into a Meso-Scale NWP model

John de Vries: OSI SAF SST and SIC product

ALADIN national posters:

Yong Wang : Austria

Martin Janousek: Czech

Roger Randriamampianina : Hungary

Maria Monteiro: Portugal

Oldrich Spaniel: Slovakia

Martina Tudor : Croatia

Claude Fischer : France

Marek Jerczynski: Poland

Simona Stefanescu: Romania

Neva Pristov : Slovenia

HIRLAM participants

Denmark (DMI):

Xiaohua Yang

Kai Sattler

Jacob Weisman Poulsen

Bjarne Stig Andersen

Henrik Feddersen

Estonia (EMHI):

Aarne Männik

Finland (FMI):

Kalle Eerola

Carl Fortelius

Sami Niemela

ALADIN participants

Office National de la Météorologie

(Algeria):

Bachir Hamadache

ZAMG (Austria) :

Alexander Kann

Sabine Leroch

Yong Wang

RMI (Belgium) :

Bart Catry

Alex Deckmyn

Rafiq Hamdi

Piet Termonia

Laura Rontu
Kirsti Salonen
Niko Sokka

Ireland (MetEireann):

Aidan McDonald
Alastair McKinstry (ICHEC)
Eoin Sherlock
Honoré Tapamo (ICHEC)
Eoin Whelan

Netherlands (KNMI):

Jan Barkmeijer
Jeanette Onvlee
Sander Tijm
Toon Moene
John de Vries

Norway (met.no):

Lisbeth Bergholt
John Bjørnar Bremsen
Inger-Lise Frogner
Mariken Homleid
Trond Iversen
Marit Jensen
Morten Køltzow
Eivind Martinsen
Harald Schyberg
Andrea Storto
Ole Vignes

Spain (INM):

Javier Calvo
José Antonio García-Moya
Carlos Geijo
Mariano Hortal
Isabel Martínez
Carlos Santos

Sweden (SMHI):

Ulf Andrae
Lisa Bengtsson
Per Dahlgren
Stefan Gollvik
Nils Gustafsson
Karl-Ivar Ivarsson
Tomas Landelius
Magnus Lindskog
Lars Mueller
Martin Ridal
Martin Stengel

NIMH (Bulgaria) :

Andrey Bogatchev

IMSC (Croatia) :

Alica Bajic
Lovro Kalin
Dijana Klaric
Tomislav Kovacic
Antonio Stanescic
Martina Tudor

CHMI (Czech Rep) :

Radmila Brozkova
Martin Janousek
Filip Vana

Meteo-France :

Ludovic Auger
Eric Bazile
Pierre Bénard
François Bouttier
François Bouyssel
Ryad El Khatib
Claude Fischer
Jean-François Geleyn
Jean-Daniel Gril
Patrick Le Moigne
Jean Maziejewski
Jean-Marcel Piriou
Patricia Pottier

HMS (Hungary) :

Gergely Boloni
Andras Horanyi
Roger Randriamampianina

Maroc Meteo :

Hassan Haddouch
Mohamed Jidane

IMWM (Poland) :

Marek Jerczynski

IM (Portugal) :

Nuno Lopes
Maria Monteiro

NMAP (Romania) :

Raluca Radu
Simona Stefanescu

Per Undén
Tomas Wilhelmsson

RSHU:
Suleiman Mostamandy
Ekaterina Kourzenova

Lithuania:
Paulius Jalinskas

Latvia:
Ivars Javaitis

SHMU (Slovakia) :
Martin Benko
Jan Masek
Oldrich Spaniel
Jozef Vivoda

EARS (Slovenia) :
Jure Cedilnik
Jure Jerman
Neva Pristov
Benedikt Strajnar

INM (Tunisia):
Abdelwahid Nmiri