

## AGENDA



# ALADIN / HIRLAM

## Joint 25<sup>th</sup> Workshop All-Staff Meeting 2015



Conference Center, Elsinore, 13-16 April, 2015  
DMI, Copenhagen, 17 April 2015

Sessions	
Monday 13 <i>Main room ~85p</i>	Opening session S1: Physics/Surface modelling Reception/ice breaker
Tuesday 14 <i>Main room ~85p + 2nd room ~20p</i>	S2: System aspects and verification S3: Data assimilation 1 <sup>st</sup> Poster session // WG clouds/testbed // WG system
Wednesday 15 <i>Main room ~85p+ room for LTM</i>	S4: Probabilistic forecasting and LAMEPS 2 <sup>nd</sup> Poster session // ALADIN LTM meeting Dinner
Thursday 16 <i>Main room ~85p</i>	S5: Dynamics Closing session
Friday 17 <i>~22p</i>	HMG-CSSI: 9h-18h at DMI premises

**Talks (including questions) : normally 20' each (10' for ALADIN & HIRLAM PM opening)  
20' for discussions**

## Monday, 13 April (8:30-19:00)

**08:30-09:00**      **Registration**

**09:00-10:10**      **Plenary opening session. Chair: Bent Hansen Sass:**

- 09:00-09:10      Opening of the Meeting & Welcome speech  
Practical arrangements for the meeting
- 09:10-09:20      Piet Termonia : ALADIN status overview
- 09:20-09:30      Jeanette Onvlee : Hirlam highlights and challenges
- 09:30-09:50      Balazs Sintai : Status of the EUMETNET C-SRNWP project
- 09:50-10:10      Erland Kallen : Research developments at ECMWF of relevance to HARMONIE

**10:10-10:40**      **Coffee break**

**10:40-12:00**      **Plenary session 1: Physics. Chair: Lisa Bengtsson**

- 10:40-11:00      Neva Pristov, Jan Masek: ALARO status overview with emphasis on  
ACRANE2 radiation scheme
- 11:00-11:20      Radmila Brozkova : ALARO-1: first operational implementation
- 11:20-11:40      Ivan Bastak : Operational version of turbulence scheme TOUCANS
- 11:40-12:00      Luc Gérard : Deep convection and downdraught in Alaro-1

**12:00-13:00**      **Lunch**

**13:00-15:00**      **Plenary session 1 (cont.): Physics. Chair: Sander Tijn**

- 13:00-13:20      Christoph Wittmann : Parameterization of orographic effects on surface radiation  
in AROME
- 13:20-13:40      Yann Seity : Progress and plans in the ARPEGE and AROME models physics
- 13:40-14:00      Emily Gleeson : Radiation in HARMONIE
- 14:00-14:20      Karl-Ivar Ivarsson : Description of the OCND2-option in the ICE3 cloud- and  
stratiform condensation scheme in AROME
- 14:20-14:40      David Lancel : Modification of EDKF parametrization in the grey zone
- 14:40-15:00      Eric Bazile : GABLS4 an intercomparison case to study the PBL at DomeC

**15:00-15:30**      **Coffee break**

**15:30-17:10**      **Plenary session 1 (cont.): Physics. Chair: Eric Bazile**

- 15:30-15:50      Wim de Rooij : KNMI parameterization testbed as a validation tool; status and  
plans
- 15:50-16:10      Bent Hansen Sass : Aerosols in Harmonie applicable to NWP and climate: A  
discussion of current ideas
- 16:10-16:30      Patrick Samuelsson : Investigation of the sensibility of snow and energy-flux  
conditions to surface and vegetation parameters for a forest site using the Multi-  
Energy Balance option in SURFEX
- 16:30-16:50      Patrick Samuelsson : Harmonie-climate
- 16:50-17:10      General discussion

**17:10-17:40**      **Ryad El Khatib : On the funny side with Jean-François**

**17:40-19:00**      **Ice breaker (reception)**

**19:00 : Dinner**

## Tuesday, 14 April (8:40-18:45)

### 08:40-10:45 Plenary session 2: System aspects and verification. *Chair: Maria Derkova*

- 08:40-09:00 Sander Tjim : HARMONIE version 36/38 experiences/verification 2014/2015
- 09:00-09:20 Ulf Andrae : Harmonie system status
- 09:20-09:40 Claude Fischer : OOPS
- 09:40-10:00 Køltzow Morten MetCoOp - One year with operational experiences
- 10:00-10:20 Enda OBrien : The benefits and costs of coarse-grained multithreading as implemented in Harmonie
- 10:20-10:40 Ryad El Khatib : Can the compiler make the difference ?
- 10:40-10:45 Short discussion => WG announcement

### 10:45-11:15 *Coffee break*

### 11:15-12:35 Plenary session 3: *Data Assimilation*. *Chair: Maria Monteiro*

- 11:15-11:35 Jean-François Mahfouf : Progress and plans with observations in MF DA suites
- 11:35-11:55 Jelena Borajova : Uncertainty about uncertainty
- 11:55-12:15 Claude Fischer : Progress and plans in Arpege 4D-Var and Arome 3D-Var methods
- 12:15-12:35 Mate Mile : RUC, HRW, Mode-S, OPLACE, etc - LACE's DA systems

### 12:35-13:35 *Lunch*

### 14:15-16:15 WG clouds/testbed

### 14:15-16:15 WG System

### 14:15-16:15 Poster session 1

### 16:15-16:45 *Coffee break*

### 16:45-18:45 Plenary session 3 (cont.): *Data Assimilation*. *Chair: Jan Barkmeijer*

- 16:45-17:05 Jan Barkmeijer : experiences with Harmonie 4DVAR
- 17:05-17:25 Carlos Geijo : Implementation of the Field Alignment Algorithm for Radar DA in HARMONIE v38. First tests in a quasioperational setting
- 17:25-17:45 Florian Meier : Towards AROME rapid update cycle: Usage of satellite and radar data in Austria
- 17:45-18:05 Martin Ridal : Assimilation of OPERA radar data in HARMONIE: A new preprocessing and data reduction
- 18:05-18:25 Jana Sanchez : Variational bias correction of GNSS ZTD in the HARMONIE modeling system
- 18:25-18:45 General discussion

### 19:00 : Dinner

## Wednesday 15 April (9:00-18:00)

### 09:00–10:20 **Plenary session 4 : *Probabilistic forecasting and LAMEPS*. Chair: Inger-Lise Frogner**

- 09:00-09:20 Martin Bellus : LAM-EPS activities in LACE  
09:20-09:40 Lisa Bengtsson: Evaluation of stochastic cellular automata deep convection parameterization in HarmonEPS  
09:40-10:00 Jose-Antonio Garcia-Moya : Implementation of SLAF in HarmonEPS  
10:00-10:20 Pau Escriba Ayerbe : Some results of LETKF with HARMONIE over Spain

### 10:20-10:50 ***Coffee break***

### 10:50–12:30 **Plenary session 4 (cont.): *Probabilistic forecasting and LAMEPS*. Chair: Jose-Antonio Garcia-Moya**

- 10:50-11:10 Sibbo van der Veen : Developments in Glameps and HarmonEPS  
11:10-11:30 Henrik Feddersen : Should we use ECMWF-EPS initial and boundary condition perturbations for HarmonEPS ?  
11:30-11:50 Cornel Soci : Uncertainties estimation in background and surface analysis under UERRA project  
11:50-12:10 Tarik Kriat : Neighbourhood processing of AROME ensemble prediction  
12:10-12:30 Andrew Singleton : Neighbourhood methods for precipitation forecasts from high resolution EPS

### 12:30-13:30 ***Lunch***

### 13:30–15:10 **Plenary session 4 (cont.): *Probabilistic forecasting and LAMEPS*. Chair: Yong Wang**

- 13:30-13:50 Thomas Nipen : Calibrated probabilistic forecasts from GLAMEPS  
13:50-14:10 Xiaohua Yang Xiaohua : GLAMEPS: where do the added values come from?  
14:10-14:30 Åke Johansson : Towards the coalescence of DA and EPS : Creating equally likely IC/members  
14:30-14:50 Clemens Wastl : Application of EPS in Civil Protection: PROFORCE  
14:50-15:10 General discussion

### 15:10-15:40: ***Coffee break***

### 15:40-17:40 **ALADIN LTM meeting**

### 15:40-17:40 **Poster session 2**

**18:40 : Bus transport from conference centre to restaurant “Toldkammeret” in Helsinor where the official dinner takes place. – Bus goes back at ~ 22 evening**

## **Thursday 16 April (9:00-12:30)**

### **09:00-11:00 Plenary session 5: Dynamics. Chair: Radmila Brozkova**

- 09:00-09:20 Alavo Subias : Finite Element Operators in the Vertical
- 09:20-09:40 Petra Smolikova : LACE - news in dynamics
- 09:40-10:00 Mariano Hortal : Status of dynamics in HARMONIE
- 10:00-10:20 Ludovic Auger : Ongoing R&D activities in dynamics at Meteo-France
- 10:20-10:40 Daan Degrauwe : Is there a need for local horizontal discretizations?
- 10:40-11:00 General discussion

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

**11:30-12:30**        *Plenary closing session. Chairs: Jeanette Onvlee and Piet Termonia*

**12:30- 14:00**            *Lunch*

-> move to Copenhagen hotels for those attending the HMG/CSSI meeting on Friday

**Friday 17 April (9:00-18:00) : HMG-CSSI meeting at the DMI premises**

## Posters :

- Alica Bajic: NWP activities in Croatia
- Javier Calvo : Cloud verification
- Javier Calvo : Operational NWP in AEMET
- Lisa Bengtsson : From mixed phase stratocumulus to shallow convection: current developments and evaluation against ground-based remote sensors
- Lesley De Cruz : Assimilation of GNSS and radar data in ALARO cy38t1 at RMIB
- Maria Derkova : ALADIN-related [activities@SHMU](mailto:activities@SHMU)
- Carlos Geijo : A new Solver for the NH Semi-implicit Scheme in HARMONIE using Green Functions
- Emily Gleeson et al. : Radiation in HARMONIE
- Alper Guser : NWP Related Activities in Turkey
- Hassan Haddouch & Noureddine Semane : Moroccan National poster
- Rafiq Hamdi : Belgium National poster
- Rafiq Hamdi : Coupling SURFEX\_V7.2 to ALARO-1 baseline version (CY38T1OP3)
- Mario Hrastinski : The impact of increased horizontal resolution of ALADIN NWP model on reproduction of wind regimes in the complex terrain
- Marek Jerczynski : National poster Poland
- Alexander Kurganskiy, Roman Nuterman, Alexander Mahura, Alexander baklanov, Alix Rasmussen, Sergej Smyshlayev, Eigil Kaas, Bent Sass : Enviro-HIRLAM birch pollen modeling for Denmark
- Alexander Mahura, Roman Nuterman, Iratxe Gonzalez-Aparicio, Alexander Baklanov, Bent Sass : Enviro-HIRLAM downscaling from regional to urban scales: meteorology and chemistry patterns
- Jose-Antonio Garcia-Moya : WRF in g-SREPS: First Results of the implementation
- Jose-Antonio Garcia-Moya : g-SREPS: The new AEMET Mesoscale Ensemble Prediction System
- Ekaterina Kurzeneva : Status of lake and sea ice developments in HARMONIE
- Maria Monteiro : ALADIN - Portuguese Technical and Scientific Activities
- Roman Nuterman, Ulrik Korsholm, Kristian Nielsen, Bent Sass, Alexander Baklanov, Eigil Kaas : Improvement of Enviro-HIRLAM weather forecasting through inclusion of cloud-aerosol interactions
- Iris Odak Plenkovic: Wind speed ensemble predictions with analog-based method in complex terrain
- Kristian Pagh Nielsen : Solar resource forecasting and variability, an update on IEA SHC Task 46
- Mirela Pietrisi: Aladin activities in Romania
- Patricia Pottier : The NWP systems at Meteo-France
- Zied Sassi : NWP activities in Tunisia
- Kau Sattler : GLAMEPS real-time production system
- Benedikt Strajnar : ALADIN in Slovenia - 2015
- Balazs Szintai : NWP at the Hungarian Meteorological Service
- Alena Trojakova : The NWP activities at CHMI
- Boryana Tsenova : NWP activities in Bulgaria
- Christoph Wittmann : National Poster Austria
- Shiyu Zhuang : The Harmonie radar data assimilation experiments in DMI

## Participants

ALADIN participants			HIRLAM participants		
Dz Algeria	Mohamed Benamara (LTM)	1	Dk Denmark	Bjarne Stig Andersen Mats Dahlbom Henrik Feddersen Maher Sahyoun Niels Woetmann Nielsen Kristian Pagh Nielsen Bent Sass Kai Settler Xiaohua Yang (HMG) Shiyu Zhuang	10
At Austria	Florian Meier Yong Wang (LACE PM) Clemens Wastl Christoph Wittmann (LTM) Christoph Zingerle (CSSI)	5	Es Estonia		
Be Belgium	Lesley De Cruz Daan Degrauwe (CSSI) Luc Gérard Rafiq Hamdi (dep. LTM) Piet Termonia (ALADIN PM)	5	Fi Finland	Ekaterina Kurzeneva Sami Niemelä Laura Rontu (HMG)	3
Bg Bulgaria	Boryana Tsenova (dep. LTM)	1	Ic Iceland		
Hr Croatia	Alica Bajic (LTM) Kristian Horvath Mario Hrastinski Dijana Klaric Tomislav Kovacic Iris Odak Plenkovic Antonio Stanesic Martina Tudor (CSSI)	8	Ir Ireland	Enda O'Brien	1
Cz Czech Republic	Ivan Bastak Radmila Brozkova (LTM) Petra Smolikova	3	Li Lithuania		
Fr France	Ludovic Auger Eric Bazile Ryad El Khatib (CSSI) Claude Fischer (LTM, CSSI) Tarik Kriat Jean-Francois Mahfouf (CSSI) Jean Maziejewski (ST) Patricia Pottier (ST) Yann Seity Cornel Soci	10	Nl Netherlands	Jan Barkmeijer Wim de Rooy Jeanette Onvlee (HIRLAM PM) Sander Tijm Sibbo van der Veen	5

ALADIN participants (cont.)			HIRLAM participants (cont.)		
Hu Hungary	David Lancz Mate Mile (dep. LTM) Balázs Szintai (LTM), not Wed.	3	No Norway	Jelena Bojarova (HMG) Björg Jenny Engdahl Inger-Lise Frogner (HMG) Mariken Homleid Køltzow Morten Thomas Nipen Andrew Singleton	7
Ma Morocco	Hassan Haddouch (LTM) Noureddine Semane	2	Es Spain	Javier Calvo Pau Escriba Ayerbe Carlos Geijo Mariano Hortal (HMG) Jose-Antonio Garcia-Moya Jana Sanchez-Arriola Alvaro Subias	7
Pl Poland	Marek Jerczynski (LTM)	1	Se Sweden	Ulf Andrae (HMG) Lisa Bengtsson Karl-Ivar Ivarsson Ake Johansson Martin Ridal Patrick Samuelsson	6
Pt Portugal	Maria Monteiro (LTM)	1			
Ro Romania	Mirela Pietrisi (Dep. LTM)	1			
Sk Slovakia	Martin Bellus Maria Derkova (ACNA) Michal Nestiak Oldrich Spaniel Jozef Vivoda (LTM)	5			
Si Slovenia	Neva Pristov (LTM) Benedikt Strajnar	2			
Tu Tunisia	Zied Sassy (LTM)	1			
Tr Turkey	Alper Guser (LTM)	1			
Invited participant					
Erland Kallen (ECMWF)					
Total : 90					