

ALADIN / HIRLAM

23rd Workshop / All-Staff Meeting 2013

Hotel Hilton Reykjavik Nordica, Reykjavik, 15-19 April, 2013

Sessions	
Monday 15 <i>Main room</i> <i>~85p</i>	Opening session S1: Data assimilation ALADIN LTM meeting Poster session Reception/ice breaker
Tuesday 16 <i>Main room ~85p</i>	S1: Data assimilation S2: Probabilistic forecasting and LAMEPS S3: Operational experiences Poster session
Wednesday 17 <i>Main room ~85p</i>	S4: Dynamics S5: Model physics Dinner
Thursday 18 <i>Main room ~85p</i> <i>+ 2nd room ~20p</i>	S6: System aspects and verification Closing session Working groups (system aspects, predictability/DA aspects)
Friday 19 <i>~22p</i>	HMG-CSSI: 9h-18h

Talks (including questions) : normally 20' each (10' for PM opening)
20' for discussions

Monday, 15 April (8:30-18:00)

08:30-09:00 Registration

09:00-10:10 Plenary opening session. Chair: Jan Barkmeijer

Opening of the Meeting

Welcome

Practical arrangements for the meeting

09:10-09:20 Piet Termonia: ALADIN status overview

09:20-09:30 Jeanette Onvlee : HIRLAM activities and highlights

09:30-09:50 Yong Wang : LACE news

09:50-10:10 Gergely Boloni : Status of the EUMETNET C-SRNWP project

10:10-10:40 Coffee break

10:40-12:20 Plenary session 1: Data assimilation and use of observations. Chair: Claude Fischer

10:40-11:00 : Jean-Francois Mahfouf : Recent usage of observations in Meteo-France data assimilation systems

11:00-11:20 : Magnus Lindskog : Harmonie ATOVS data assimilation and coordinated impact study

11:20-11:40 : Roger Randriamampianina : The radar data assimilation at OMSZ and met.no

11:40-12:00 : Siebren de Haan : On Mode-S EHS observations: quality issues, impact and the future

12:00-12:20 : Mate Mile : Arome data assimilation activities in Hungary

12:20-13:50 Lunch

13:50-15:30 : Plenary session 1 (cont.): Data assimilation and use of observations. Chair: Ole Vignes

13:50-14:10 : Tuuli Perttula : Towards assimilating IASI satellite observations over cold surfaces – the cloud detection aspect

14:10-14:30 : Carlos Geijo : Progress on radar data assimilation in Harmonie using the field alignment technique : Application to Doppler Wind Data

14:30-14:50 : Antonin Bucanek : Evolution of dispersion spectra during successive steps of the assimilation cycle

14:50-15:10 : Xiaohua Yang : Harmonie 3DVAR-RUC with asynoptic base time

15:10-15:30 : Jan Barkmeijer : Harmonie at KNMI and future plans

15:30-15:50 Coffee break

15:50-18:00 ALADIN LTM meeting

15:50-18:00 Poster session 1

18:00- Reception/ice breaker

Tuesday, 16 April (9:00-18:30)

09:00–10:20 Plenary session 1 (cont.): Data assimilation and use of observations. Chair: Gergely Boloni

09:00-09:20 : Nils Gustafsson : HIRLAM 4DEnsVar – discussion and first results

09:20-09:40 : Claude Fischer : Status of assimilation methods at Meteo-France

09:40-10:00 : Jelena Bojarova: Data assimilation and ensemble prediction: an enriching partnership

10:00-10:20 : Piet Termonia : A Short-Time Augmented Extended Kalman Filter for the surface

10:20–10:50 *Coffee break*

10:50–12:10 Plenary session 1 (cont.): Data assimilation and use of observations. Chair: Nils Gustafsson

10:50-11:10 : Annelies Duerinckx : Preliminary results on combining Surfex EKF with 3D-Var atmospheric assimilation for ALARO

11:10-11:30 : Mariken Homleid : Harmonie snow analysis

11:30-11:50 : Homa Kheyrollapour : improvement of objective analysis of lake surface state in Hirlam using satellite observations

11:50-12:10 : General discussion

12:10-13:40 *Lunch*

13:40-15:40 Plenary session 2: Probabilistic forecasting and LAMEPS. Chair: Roger Randriamampianina

13:40-14:00 : Theresa Gorgas : News on research and development in ALADIN-LAEF

14:00-14:20 : Inger-Lise Frogner : GLAMEPS and HarmonEPS experimentation and plans

14:20-14:40 : Geert Smet : Surface perturbations by cycling surface breeding

14:40-15:00 : Åke Johansson : Impact of a Hybrid Variational-Ensemble Data Assimilation System on the Performance of an ETKF-based EPS System

15:00-15:20 : Sibbo van der Veen : The impact of using CAPE singular vector perturbations in GLAMEPS

15:20-15:40 : General Discussion

15:40-16:10 *Coffee break*

16:10- 17:30 Plenary session 3: Operational experiences. Chair: Jean-Francois Mahfouf

16:10-16:30 : Sander Tijm : Systematic Harmonie problems as seen from a user perspective

16:30-16:50 : Javier Calvo : On Harmonie/Arome progress at AEMET

16:50-17:10 : Trygve Aspelien : Arome-Norway – from experiments to official public forecasts available for the whole wide world

17:10-17:30 : General discussion

17:30–18h30 : Poster session 2

Wednesday, 17 April (9:00-16:00)

09:00-10:40 Plenary session 4: Dynamics. Chair: Daan Degrauwe

09:00-09:20 : Jozef Vivoda : Vertical finite elements in the NH dynamical core of ALADIN

09:20-09:40 : Petra Smolikova : LACE – dynamics and coupling

09:40-10:00 : Daan Degrauwe : Localized horizontal discretizations with appropriate adjustment properties for the ALADIN dynamics

10:00-10:20 : Marco Kupiainen : Energy estimates and weak boundary procedures for LAM

10:20-10:40 : General discussion

10:40-11:10 *Coffee break*

11:10–12:30 Plenary session 5: Model physics. Chair: Sander Tijn

11:10-11:30 : Yves Bouteloup : Status of Arpege and Arome physics

11:30-11:50 : Laura Rontu : Summary and update of the stable boundary layer workshop

11:50-12:10 : Neva Pristov : ALARO-1: an overview

12:10-12:30 : Radmila Brozkova : ALARO-0 baseline: status and latest results on convective diurnal cycle

12:30-14:00 *Lunch*

14:00-15:40 Plenary session 5 (cont.) : Model physics. Chair: Radmila Brozkova

14:00-14:20 : Lisa Bengtsson : A closer look at fog over sea, clouds in cold conditions and deep convection in Harmonie

14:20-14:40 : Kristian Pagh Nielsen : Aspects of the radiation scheme in Harmonie

14:40-15:00 : Sigurdur Thorsteinsson : Impact of sub-grid orographic drag on weather forecasts in Iceland

15:00-15:20 : Ekatherina Kourzeneva : Recent HIRLAM lake-related activities

15:20-15:40 : General discussion

15:40-19:00 : **free time**

19:00-? : **dinner**

Thursday 18 April (9:00-13:00)

09:00-10:40 Plenary session 6: System aspects and verification. Chair: Sami Niemela

09:00-09:20 : Claude Fischer : Status of cycles; OOPS

09:20-09:40 : Ryad El-Khatib : Fullpos-2

09:40-10:00 : Ulf Andrae : The status of the Harmonie system

10:00-10:20 : Ulf Andrae : computational challenges and aspects of Harmonie

10:20-10:40 : Enda O'Brien : Accelerating Harmonie with GPU's

10:40-11:00 *Coffee break*

11:00-12:40 Plenary session 6: System aspects and verification. Chair: Alex Deckmyn

11:00-11:20 : Filip Vana : The OpenIFS project at ECMWF

11:20-11:40 : Christoph Zingerle : HARP – a common framework for verification

11:40-12:00 : Xiaohua Yang : Validation of Harmonie Cy38h1

12:00-12:20 : Sami Niemela : FROST-14 – first experiences of deterministic Harmonie in the Sochi region

12:20-12:40 : General discussion

12:40-13:00 : Plenary closing session. *Chairs: Jeanette Onvlee and Piet Termonia*

13:00- 14:30 *Lunch*

14:30-16:00 Working group on system aspects

Working group on transversal predictability – data assimilation issues

Friday 11 May (9:00-18:00) : HMG-CSSI meeting

Posters

Alica Bajic	The NWP activities in Croatia
Patrik Benacek	First test of water vapour regimes verification using SAL
Dag Bjorge	Norwegian Meteorological Institute- operational use of Harmonie AROME
Jelena Bojarova	Correction of non-additive errors in the HIRLAM hybrid ensemble variational data assimilation using image registration approach
Gergely Boloni	NWP at the Hungarian Meteorological Service ; Improving wintertime low cloud forecasts over Hungary: First experiments (on behalf of Balázs Szintai, Eric Bazile, Yann Seity, François Bouyssel)
Javier Calvo	Long-term verification of HIRLAM and ECMWF models
Jure Cedilnik	ALADIN related activities in Slovenia
Maria Derkova	ALADIN related activities at SHMU
Emily Gleeson	Short-wave radiation schemes in Harmonie
Hassan Haddouch	Numerical Weather Prediction in Morocco 2013
Marek Jerczynski	ALADIN related activities in Poland
Ersin Kucukkaraca	ALADIN in Turkey
Jelena Bojarova	Correction of non-additive errors in the HIRLAM hybrid ensemble variational data assimilation using image registration approach
Andres Luhamaa	Harmonie activities in Estonia
Maria Monteiro	ALADIN - Scientific and Technical activities at IPMA
Bolli Palmason	Harmonie @ IMO – Visualisation and application
Tuuli Perttula	Impact of IASI satellite observations in harmonie during convective storm events in Finland
Emiel van der Plas	Assessing quality of high resolution forecasts
Patricia Pottier	The NWP systems at Meteo-France
Petra Smolikova	New developments and operational changes at CHMI
Simona Tascu	ALADIN related activities in Roamnia
Alena Trojakova	Latest status of BlendVar developments at CHMI
Boryana Tsenova	Status of operational applications in Bulgaria
Ole Vignes	MetCoOp – operational cooperation between SMHI and met.no
Eoin Whelan	NWP in MetEireann
Christoph Wittmann	NWP related activities in Austria

Participants

Dz Algeria			Dk Denmark	Xiaohua Yang (HMG) Kristian Pagh Nielsen	2
At Austria	Theresa Gorgas Yong Wang (LACE) Christoph Wittmann (LTM) Christoph Zingerle	4	Es Estonia	Andres Luhamaa Velle Toll	2
Be Belgium	Alex Deckmyn (LTM, CSSI) Annelies Duerinckx Daan Degrauwe (CSSI) Geert Smet Piet Termonia (PM) Michiel Vanginderachter	6	Fi Finland	Ekatherina Kurzeneva Sami Niemelä Tuuli Perttula Laura Rontu (HMG)	4
Bg Bulgaria	Boryana Tsenova (dep. LTM)	1	Ic Iceland	Bolli Pálmason Guðrún Nina Petersen Hróbjartur Þorsteinsson Sigurður Thorsteinsson Sigurður Jónsson	5
Hr Croatia	Dijana Klaric Tomislav Kovacic (dep. LTM) Antonio Stanesic	3	Ir Ireland	Enda O'Brien Klara Finkle Emily Gleeson Eoin Whelan	4
Cz Czech Republic	Patrik Benáček Radmila Brozkova (LTM) Antonín Bucanek Petra Smolikova Alena Trojakova (CSSI)	5	Li Lithuania		
Fr France	Yves Bouteloup Ryad El Khatib (CSSI) Claude Fischer (LTM, CSSI) Jean-Antoine Maziejewski (ST) Jean-Francois Mahfouf (CSSI) Patricia Pottier (ST)	6	Nl Netherlands	Jan Barkmeijer Tilly Drienaar (HMG) Siebren de Haan Jeanette Onvlee (PM) Emiel van der Plas Sander Tijm Sibbo van der Veen	7
Hu Hungary	Gergely Boloni (LTM) Mate Mile	2	No Norway	Solfrid Agersten Trygve Aspelien Jelena Bojarova (HMG) Dag Björge Inger-Lise Frogner (HMG) Nils Gustafsson Mariken Homleid Jörn Kristiansen Roger Randriamampianina Andrew Singleton Ole Vignes	11
Ma Morocco	Hassan Haddouch (LTM)	1	Es Spain	Javier Calvo Carlos Geijo Mariano Hortal (HMG)	3
Pl Poland	Marek Jerczynski (LTM)	1	Se Sweden	Ulf Andrae (HMG) Lisa Bengtsson Åke Johansson	5

				Magnus Lindskog Marco Kupiainen	
Pt Portugal	Maria Monteiro (LTM) Manuel Lopes	2	Canada	Homa Kheyrollahpour	1
Ro Romania	Simona Tascu (dep.LTM)	1			
Sk Slovakia	Maria Derkova (CSSI) Oldrich Španiel Jozef Vivoda (LTM)	3			
Si Slovenia	Neva Pristov (LTM) Jure Cedilnik	2			
Tu Tunisia	Zied Sassy (dep. LTM)	1			
Tr Turkey	Ersin Küçükcaraca (LTM)	1			
Total		39			44
ECMWF : Filip Vana					