SRNWP: BUSINESS MEETING, 2008

SRNWP „responsible member”: Hungarian Meteorological Service (OMSZ)

Period: 2008 - 2011

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Last year, we
finished here...

HIGHLIGHTS

- OMSZ has taken over the „responsible membership” from MeteoSwiss since 1st of January, 2008
- The webpage was moved to srnwp.met.hu (basically with the same content and format)
- Frequent email exchanges towards SRNWP representativies and Consortia heads
- Expert Teams were created and workplans were formulated
- Advisory Committee meeting was held
- Contracts and invoices were issued
- EWGLAM/SRNWP programme was compiled

CONTENT

- Basic facts about the programme
- Expert Teams
- Advisory Committee
- Planned workshops
- Other programmes (interoperability, verification)
- Issues: optimized governance, Data Targeting System, OPERA

SUMMARY OF MAIN OBJECTIVES

- Improved **scientific cooperation** between the 5 LAM Consortia (ALADIN, COSMO, HIRLAM, LACE, MetOffice) in Europe for numerical weather prediction (NWP) through the initiation and execution of joint projects

- Enhanced **operational cooperation** through harmonisation of standards and increased interoperability between models

- Effective **diffusion of NWP knowledge** and enhanced practical cooperation in NWP through efficient information exchange (means: organisation of workshops, thematic projects, SRNWP website **– srnwp.met.hu**)

PARTICIPATION (TWO LEVELS: CONSORTIA and PARTICIPATING STATES)

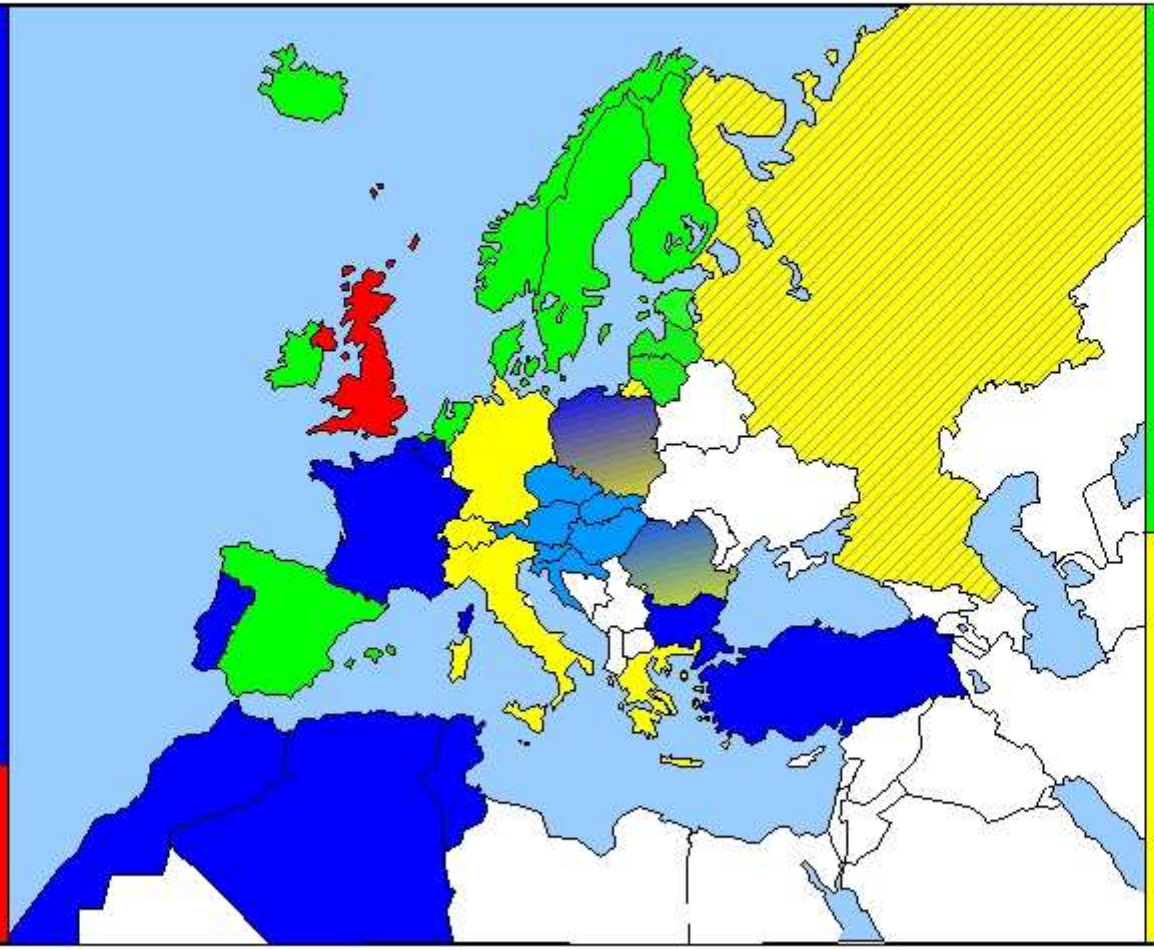
- Consortia: ALADIN, COSMO, HIRLAM, LACE, MetOffice
- Participating states (30 members; 23 present)
  - EUMETNET members (all): **Austria, Belgium, Croatia**, Cyprus, **Denmark,** Estonia, **Finland, France, Germany, Greece**, **Hungary,** Iceland, **Ireland, Italy**, Latvia, Luxemburg, **Netherlands, Norway, Portugal, Slovenia, Spain, Sweden, Switzerland, United Kingdom**
  - Non-EUMETNET members: Bulgaria, **Czech Republic, Poland**, **Romania, Slovakia**, Turkey, (Lithuania, Russia)

SRNWP CONSORTIA (5) and MODELS (4)

CONSORTIA	MODEL
ALADIN	ALADIN (HARMONIE)
COSMO	COSMO
HIRLAM	HIRLAM (HARMONIE)
LACE	ALADIN (HARMONIE)
MetOffice	Unified Model

Remark: ALADIN (LACE) and HIRLAM are working on code collaboration around the IFS/ARPEGE/ALADIN/ALARO/AROME code

SRNWP Consortia in Europe



ALADIN
Algeria
Belgium
Bulgaria
France
Morocco
Poland
Portugal
Tunisia
Turkey

Austria
Croatia
Czech Rep.
Hungary
Romania
Slovakia
Slovenia
LACE

UKMO
United Kingdom

HIRLAM
Denmark
Estonia
Finland
Iceland
Ireland
Netherlands
Norway
Spain
Sweden
(Latvia)
(Lithuania)

COSMO
Germany
Greece
Italy
Poland
Romania
Switzerland
(Russia)

GOVERNANCE (NEW FROM THE BEGINNING OF 2008)

- Programme Manager (coordinator)
- **SRNWP Advisory Committee**: heads of LAM Consortia and PM
- Programmes: interoperability, verification, EUREPS (?)
- **Expert Teams**
- Annual business meetings (EWGLAM/SRNWP, **new format**)

LIST OF EXPERT TEAMS (MAILING LISTS)

- Data assimilation and use of observations (etda@met.hu)
- Diagnostics, validation and verification (etverif@met.hu)
- Dynamics and lateral boundary coupling (etdyn@met.hu)
- Link with applications (etapp@met.hu)
- Physical parameterisation (upper air; etphys@met.hu)
- Predictability and EPS (eteps@met.hu)
- Surface and soil processes (model and data assimilation; etsfc@met.hu)
- System aspects (etsystem@met.hu)

EXPERT TEAMS: MAIN TASKS

- The members are nominated by the Consortia (max. 3 members per Consortia), so they represent their respective LAM Consortia (chairpersons are elected by the ET members)
- ETs prepare workplans for their area of interest
  - Specific areas of interest for cross-Consortia cooperation
  - Plans for workshops, meetings
- Help in the organisation of the annual EWGLAM/SRNWP meeting
- Execution of the workplans (frequent email exchanges: generic email addresses exist, informal meetings, research stays, projects, workshops etc.)

EXPERT TEAM CORE MEMBERS (ONE PER CONSORTIA)

	ALADIN	COSMO	HIRLAM	MetOffice	RC LACE
Data assimilation and use of observations	Claude Fischer	Massimo Bonavita	Nils Gustafsson	**Bruce Macpherson**	Gergely Boloni
Diagnostics, validation and verification	Joel Stein	Francis Schubiger	Carl Fortelius	**Clive Wilson**	Dijana Klaric
Dynamics and lateral boundary coupling	**Pierre Benard**	Lucio Torrisi	Mariano Hortal	Nigel Wood	Filip Vana
Link with applications	Maria Monteiro	Pierre Eckert	**Jeanette Onvlee**	Simon Jackson	Thomas Haiden
Physical parameterisation (upper air)	Valery Masson	Federico Grazzini	**Sander Tijm**	Peter Clark	Neva Pristov
Predictability and EPS	Alex Deckmyn	Chiara Marsigli	**Trond Iversen**	Ken Mylne	Yong Wang
Surface and soil processes (model and data assimilation)	**Jean-Francois Mahfouf**	Bodo Ritter	Sander Tijm	Martin Best	Alena Trojakova
System aspects	Ryad El Khatib	Uli Schaettler	Xiaohua Yang	**Rachel North**	Oldrich Spaniel

EXPERT TEAM ADDITIONAL MEMBERS (MAX. 2 PER CONSORTIA)

	ALADIN	COSMO	HIRLAM	MetOffice	RC LACE
Data assimilation and use of observations	Loik Berre, Maria Derkova	Christoph Schraff	Harald Schyberg	Sue Ballard Richard Renshaw	Marian Jurasek Tomislav Kovacic
Diagnostics, validation and verification	Marek Jerczynski Alexander Kann	Adriano Raspanti	Ulf Andre	Marion Mittermaier Nigel Roberts	Lovro Kalin
Dynamics and lateral boundary coupling	Petra Smolikova, Piet Termonia	Detlev Majewski	Isabel Martinez	Chris Smith Terry Davies	Jan Masek
Link with applications	Jean Nicolau	Victor Pescaru	Per Unden	Mike Bush	
Physical parameterisation (upper air)	Bart Catry Tomas Kral	Dmitrij Mironov	Bent Hansen Sass	Andy Brown Paul Field	Doina Banciu
Predictability and EPS	Laurent Descamps Alain Joly	Pierre Eckert	Jan Barkmeijer	Sarah Beare	Edit Hagel
Surface and soil processes (model and data assimilation)	Rafiq Hamdi		Maria Diez	Imtiaz Dharssi Gabriel Rooney	Laszlo Kullmann Jure Cedilnik
System aspects	Andrey Bogatchev	Jean-Marie Bettems	Tomas Wilhelmsson	Bruce Wright	

EXPERT TEAMS: RECENT STATUS

	First version of wp	Updated workplan	EWGLAM
Data assimilation	YES	NO	YES
Verification	YES	YES	YES
Dynamics	YES	NO	YES
Applications	NO	NO	
Physics	YES	YES	YES
EPS	YES	NO	YES
Surface	YES	YES	YES
System	YES	YES	

Many-many thanks to the Expert Teams in general and the chairpersons in particular!!

EXPERT TEAMS: ISSUES

- The list of topics: is that OK!?!
- Deputy chairpersons for accepted EUMETNET programmes (system – interoperability; verification)?!?
- Members of the Expert Teams: is that OK?
- Update the workplans as soon as possible after the meeting (and start the inter-consortia work accordingly)

ADVISORY COMMITTEE (NEW!!)

- Members: the „leaders” of the 5 LAM Consortia (Dijana, Jeanette, Jean-Francois, Marco, Terry)
- Advise for the Programme Manager (through meetings, but mostly through intensive email exchange)
- Meetings: twice per year (late spring and during the annual meeting)
- The C-SRNWP programme can be efficient, if the PM receives real support from the Consortia leaders!

ADVISORY COMMITTEE

- First meeting: Budapest, 15-16 May, 2008

- Main outcomes:
  - Assessment of workplans and recommendations for their update (general and specific proposals)
  - Possible relation with academia
  - Format of the annual EWGLAM/SRNWP meetings
  - Revision of the 8 recommendations from the vision workshop

PLANNED WORKSHOPS (2008-2009)

SUBJECT	PLANNED EVENT
Interoperability: kick-off	November, 2008
Numerical techniques (mini-workshop)	2009
TIGGE-LAM meeting	19-21 January, 2009
Verification methodology (SRNWP verification kick-off meeting)	8-11 June, 2009 (Helsinki)
Surface processes (ET)	2009 (12 June), Tlse
EPS workshop	22-25 June, 2009 (Exeter)
NetFAM workshop on moist processes	15-17 (?) June, 2009 (Sweden)
Non-hydrostatic modelling	2009 autumn (Bad Orb)

PLANNED WORKSHOPS (2010)

SUBJECT	PLANNED EVENT
Joint data assimilation and EPS workshop	2010
Special radar data assimilation session at the ERAD conference	2010
Another „vision” meeting	2010
Meeting with academia/university	??

ACCOMPANYING SRNWP PROGRAMMES (PROJECTS)

- Increased interoperability between numerical forecasting systens of ALADIN, COSMO, HIRLAM and Metoffice (responsible member: MetOffice, PM: Rachel North; project just started)

- Common model inter-comparison and verification (proposal accepted by the Council, but no responsible member was applied until now)

- Realisation of an operational European LAMEPS system (EUREPS, already submitted to the Council, but NOT accepted)

MAIN CONTENT OF THE INTEROPERABILITY PROJECT

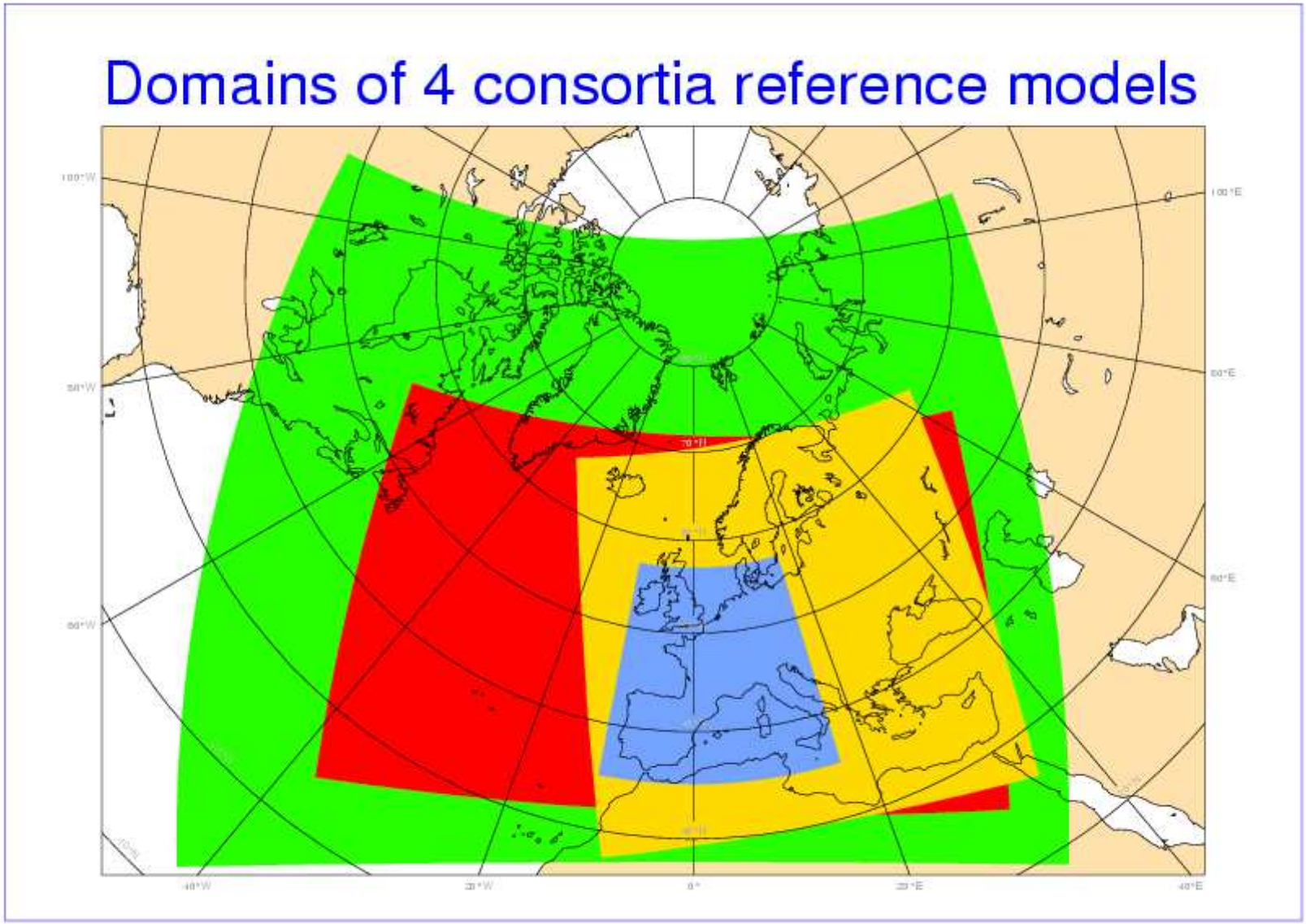
- 3 years programme from September, 2008
- D1: report about the standard output format (+parameters)
- D2: Requirements and specifications of the adaptors
- D3: Development of four 2-way adaptors (specific LAM format to standard format)
- D4: Software for enabling any of the LAMs to use any of the global models as initial and lateral boundary conditions
- D5: Long-term sustainability plan

MAIN CONTENT OF THE VERIFICATION PROJECT

- Two-years project (in the best case it would start at the beginning of 2009)

- D1: Operational verification comparison of one version of each of the 4 regional European LAM model (ALADIN, COSMO, HIRLAM, Unified Model)
- D2: Additional intercomparison of other models of the Consortia (including high resolution ones)
- D3: Inventory and recommendations of new scale selective verification methods
- D4: Catalogue of sources of non-GTS data

COMMON VERIFICATION



VOLUNTEER FOR RESPONSIBLE MEMBER IS NEEDED (deadline: end of October)!!

MAIN CONTENT OF THE EUREPS PROPOSAL (rejected by the Council)

- Two-years project
- D1: Verification methods, weather parameters, thresholds for verification, set of cases
- D2: Database of a range of ensemble forecasts, which forms a grand LAMEPS
- D3: Report on the benefits of a grand LAMEPS with respect to single LAMEPS
- D4: Definition of the European component of TIGGE-LAM

ISSUES ABOUT EUREPS

- What shall we do? Let's wait or be proactive?
- What is the role of PEPS? Shall we capitalise on the availability of PEPS?

ANNUAL EWGLAM/SRNWP MEETING

- The most important event of the LAM community (and SRNWP)
- Participation:
  - Representation of the Consortia (working group leaders!)
  - Representation of the participating members

ANNUAL EWGLAM/SRNWP MEETING: NEW STRUCTURE

- Consortia presentations (short ones)
- ECMWF presentation (as the essential partner of the LAM community; longer)
- National posters with introductions
- Review talks on the ET subjects
- Dedicated sessions on the main NWP areas of interests (ET topics; proposals from the ETs!)
- EWGLAM: final discussion
- SRNWP business meeting
- SRNWP Advisory Committee meeting

ADDITIONAL ISSUES

- Improve the links between the other EUMETNET programmes, especially EUCOS and OPERA
  - Towards EUCOS: consideration of observational requirements for mesoscale modelling (Data Targeting System?)
  - Towards OPERA: adjustment of requirements (radar reflectivities will be essential ingredients for the mesoscale models; requirements were formulated)
  - Links should be built with EUMETCAL and EUMETREP
- Increase cooperation between university/academia researchers and NWP (operational) centres (some links are already built)
- Optimised governance between the SRNWP programmes

CONTRACT AND CONTRIBUTION FEE

- Contract and invoice was sent in the beginning of summer for all the SRNWP member states
- Missing signed contract: Finland, Ireland, Spain
- Contribution not yet paid: Croatia, Denmark, France, Ireland, Italy, Spain
- Recent feedbacks: Ireland, Spain

ADDITIONAL ISSUES FOR DISCUSSION

Thank you for your attention and patience!