

# **ALADIN**

**(Programme Manager report)**

**ALADIN work in the GA intersession &  
outlook for issues at the 12<sup>th</sup> GA  
CSSI matters**

**Ljubljana, 7/11/07**



# Scope of the presentation

- Main topics for the Programme in the past 12 months / Links with the Items of the 12<sup>th</sup> GA Agenda
- Boundary conditions:
  - HARMONIE;
  - RC LACE;
  - Evolution of C-SRNWP.
- CSSI (and related) matters
- PM activities

# Main topics for the Programme in the past 12 months

- The Strategy Document
- The scientific and/or (pre)operational achievements
- The first full year of the flat-rate budget
- The now well-established rhythm of core meetings
- The links with Météo-France's CPPN work on *'La coopération en Europe dans le cadre des consortia ALADIN et HIRLAM'*
- The ALARO-0 training course

# The Strategy Document

- Various contributions under the canvas established by A. Mokssit
- Assembling-editing by F. Bouttier
- Review by CSSI and PM
- Presentation and discussion at PAC => need for another ‘packing’ => new redaction group led by E. Legrand
- Re-review by CSSI and PM
- Various small iterations => **presented at GA**

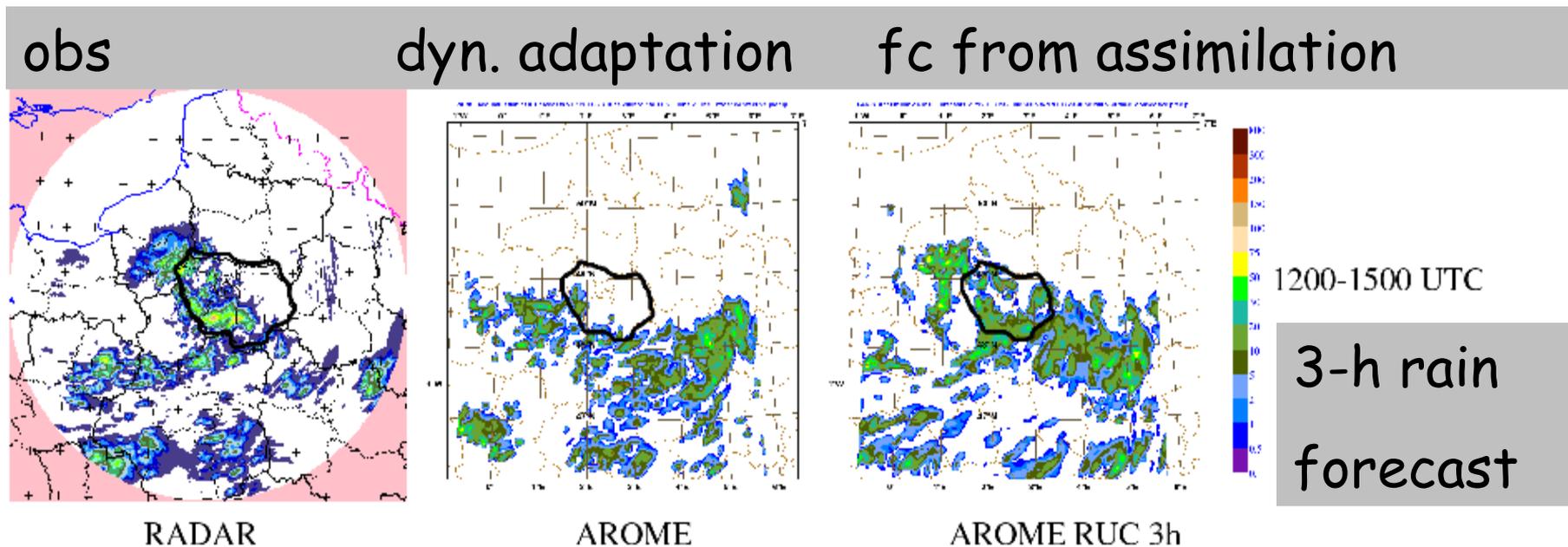
# The scientific and/or (pre)operational achievements

- LAEF (LACE Ensemble Forecasting) produces its first operational results
- First very promising results for the NH-VFE mix (but still many hurdles ahead)
- Implementation steps for the HARMONIE joint Data Assimilation strategy outlined on 12/10/06
- AROME now runs on a quasi-definitive domain every day; important progress on data assimilation aspects
- ALARO-0-minus-3MT operational (at 2 places), tested elsewhere. Full ALARO-0 at 'break-even' point in ALADIN (and 'not stupid' for its first ARPEGE test)

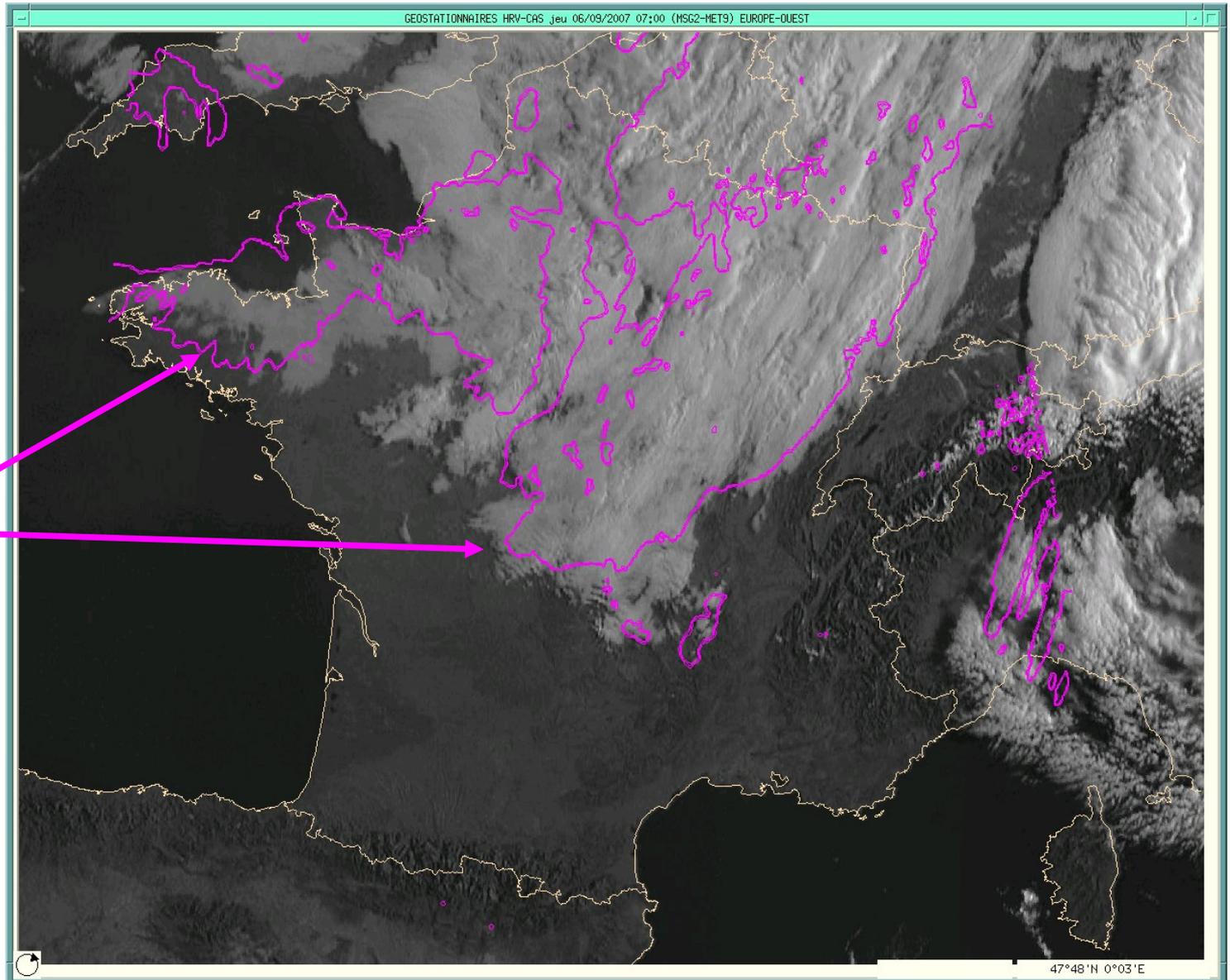
# Short-range forecast improvement thanks to local data assimilation

Here on a Paris thunderstorm case, missed by the lower resolution ALADIN assimilation, and by AROME in dynamical adaptation mode.

The improvement comes from low-level SYNOP T,HU,wind obs



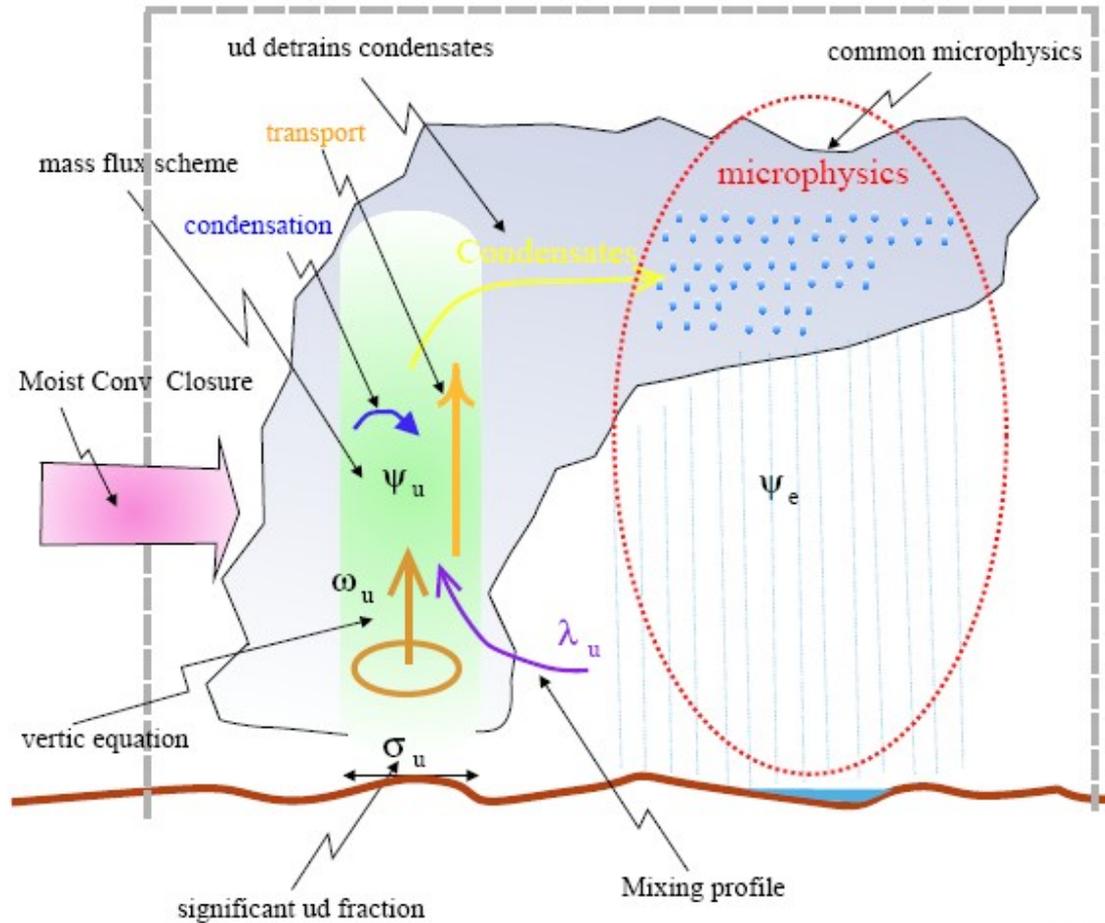
# A typical nice forecast of low clouds



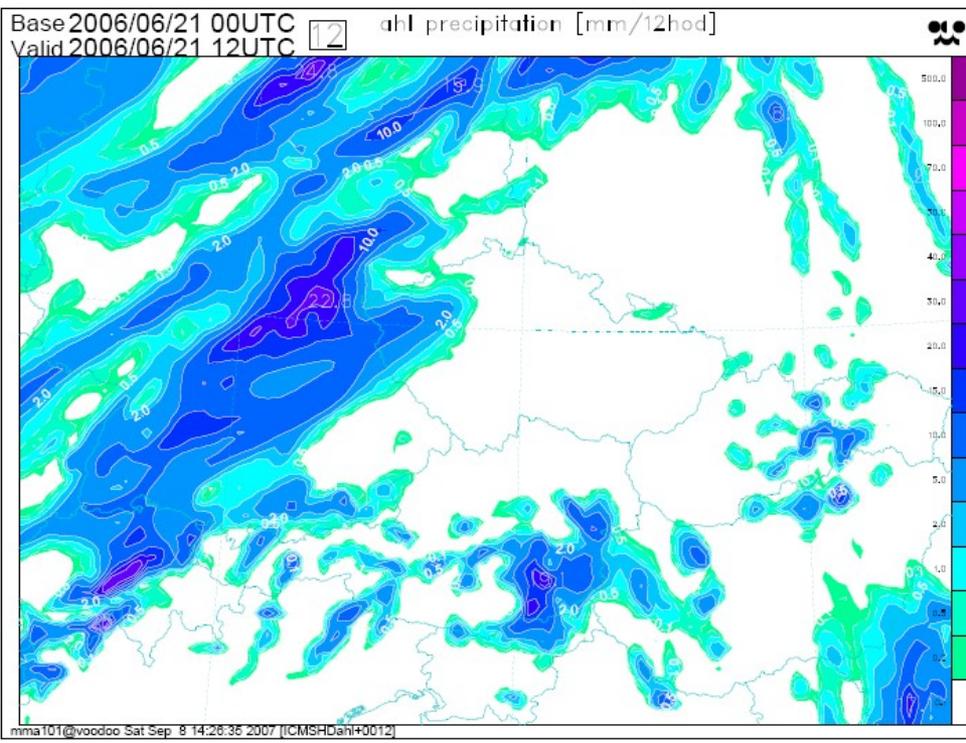
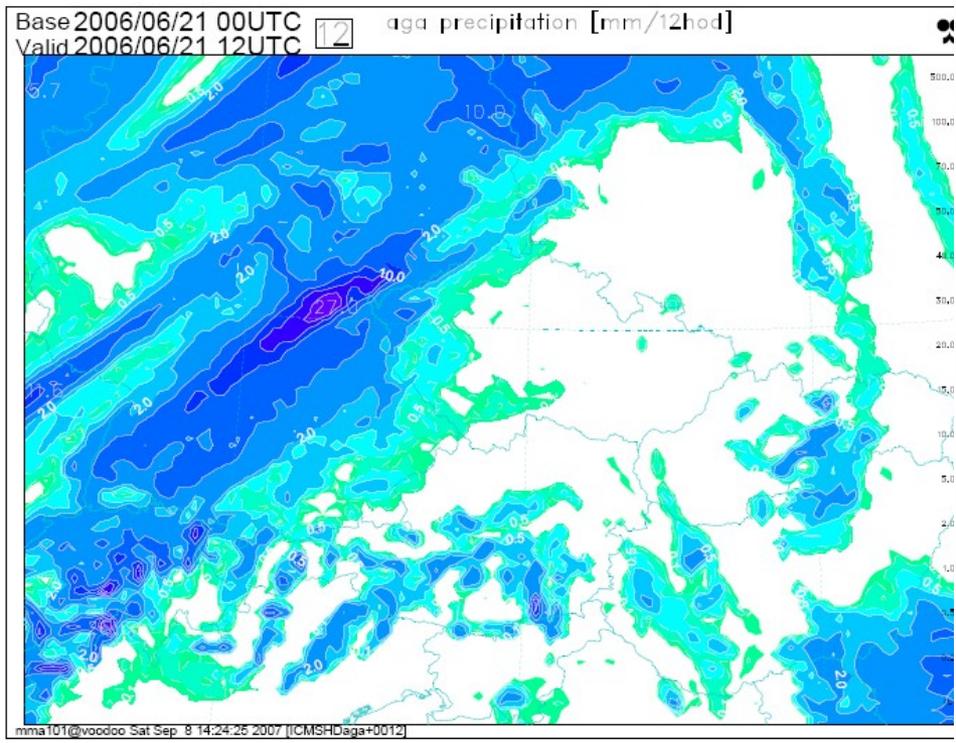
model  
cloudy  
areas

# 3MT

## Main Choices



# 3MT: precip. outcome (provisional)



Without 3MT

With 3MT

# The first full year of the flat-rate budget

- The budgetary procedure is now in routine mode
- The back-log of money transfers is progressively reduced
- The ‘delegations’ of organisation to M-F and LACE were successful
- Unfortunately, the implied duties (on the remaining flat-rate side) for planned actions are not always fulfilled => **problem of increase of the yearly transfer**
- For 2008, **a problem with Royalties money channelling**

# The now well-established rhythm of core meetings

- The HIRLAM-ASM & ALADIN Workshop + HMG-CSSI (2x) + CSSI-ST + LTM meetings (Oslo => Brussels)
- PAC spring's Session (Prague => Casablanca)
- EWGLAM/SRNWP (*with the 2006+ format*) + CSSI-ST +LTM meetings (Dubrovnik => Madrid)
- 'Bureau' (Vienna) or PAC pre-GA meeting
- General Assembly (Ljubljana => Lisbon)

Plus 2 'enlarged LACE Steering Committee' meetings with independent calendar

# The links with Météo-France's CPPN work on *'La coopération en Europe dans le cadre des consortia ALADIN et HIRLAM' (1/2)*

- This action, together with its PAC link, has generated an incredible amount of written documents, at least seen from the PM side. Here is a non fully exhaustive list:
  - Two buried PAC preparatory documents (9 & 4 pages)
  - The relevant Section of the PAC Minutes
  - One buried CPPN (main Session) preparatory document (9 pages)
  - One .ppt for the CPPN main Session (12 viewgraphs)
  - Coordination of two 'analysis documents' by the ALARO-Team (respectively 12 and 43 pages)
  - Coordination of 'comments' on a CNRM 'analysis document' and of 'comments on comments' (respectively 2 and 3 pages)
  - One .ppt for a 'in camera Session' of CPPN (26 viewgraphs)

# The links with Météo-France's CPPN work on *'La coopération en Europe dans le cadre des consortia ALADIN et HIRLAM'* (2/2)

- Not surprisingly, the brainstorming rather quickly abandoned the global picture initially aimed at and concentrated on the complex issue of the AROME  $\Leftrightarrow$  ALARO relationships in terms of physics and phys-dyn interfacing
- The medium- and long-term aspects may (or may not) be discussed under Agenda Item 8
- For the shorter term two common actions have been initiated that may lead to some common code development:
  - Diagnostics and their interaction with the interfacing code;
  - Using the AROME microphysics in ALARO via a joint selective modularisation.

# The ALARO-0 training course

- Co-organised by LACE (Physics WGL + CHMI) & ALADIN (PM + CSSI)
- Radostovice (CZ), 26-30/3/07
- 27 people from 12 countries
- 17 lectures, 9 exercise hours and 6 working-group sessions on the documentation
- Fruitful preparation and venue (general opinion)
- The scientific momentum persists, **but the scientific maintenance ‘post-TCA0 commitments’ are somewhat ‘fading away’**
- Next year the main training event will be an AROME training course (Lisbon, 3-7/3/08)

# The TCA0 spirit

**Good luck.**



# Boundary conditions: HARMONIE (1/2)

- Joint HMG-CSSI meetings in Oslo
- Survey of the progress on the common part of the HIRLAM and ALADIN plans indicate a correct rate of realisation. In fact:
  - In Bratislava we envisaged the working practices;
  - In Sofia we went to the methodology;
  - In Oslo we look at the details for difficult issues;
  - In Brussels we shall start assessing the outcomes;
  - Later we should avoid being bored by ‘routine topics’!

# Boundary conditions: HARMONIE (2/2)

- Going into more details:
  - In dynamics, only the LBC side shows progress on common work, but perhaps decisively now;
  - In physics, the question of articulation of the various solutions is also of concern for HARMONIE and some plans for extended verification are being prepared (good Helsinki workshop)
  - For surface, good plans, but lack of time to start concretising them
  - For EPS, ALADIN is struggling to follow pace
  - Concerning data assimilation, ‘green’ indicators mostly
  - For technical issues, progress but perhaps a bit slow

# Boundary conditions: RC LACE

- The enlarged LSC continues to play its role of scientific forum with more time for discussions than in the other occasions
- LACE is now partner in the fulfilment of the flat-rate budget related plan
- The present year is one of preparation for RC-LACE (new MoU and new working procedures [project oriented], yet to be approved, hopefully here in Ljubljana during the RC LACE Council that will follow the GA)

# Boundary conditions: evolution of C-SRNWP

- Enhanced scientific cooperation between the five European LAM Consortia specifically targeted to the elements of the EUMETNET Vision of NWP
- Diffusion of NWP knowledge, efficient information exchange
  - Organisation of workshops; annual EWGLAM/SRNWP meetings
  - **Organisation of thematic projects**
  - SRNWP web site

# MAIN DUTIES OF PROGRAMME MANAGER

- Realisation of the 18 recommendations of the NWP Vision meeting
- Support the information exchange between the members
- Organisation of Advisory Committee meetings (status reports)
- Initiation of projects for the enhanced NWP cooperation
- Monitoring of existing projects, support the efficient work of Project Teams
- Reporting to EUMETNET Council, liaison with other EUMETNET programmes
- Help in the preparation of EWGLAM meetings
- Intensify cooperation with ECMWF and EUMETSAT (and with non-European organisations)
- Maintain an up-to-date SRNWP website

# SRNWP ADVISORY COMMITTEE

- Review the strategic developments within European NWP and identification of needs for of specific projects and/or coordinated activities
- Definition and initiation of projects or activities and monitor their progress
- Advices to the Programme Manager for all matters of the Programme

# SRNWP PROJECTS

- Planning and organising all SRNWP activities in their area of responsibility with special emphasis on concrete deliverables
- Planning and organisation of workshops and meetings
  - Foster exchange of information (also non-European researchers and “academia”).
- Reporting to the Programme Manager and to the annual EWGLAM/SRNWP meeting
- Identification of suitable areas of cooperation projects aimed at specific deliverables of EUMETNET

# EWGLAM/SRNWP ANNUAL MEETING

- One annual meeting (early autumn)
- All Programme Members are welcome to attend
- “Usual” topics:
  - Report of Programme Manager
  - Status reports of ongoing SRNWP projects (Responsible members)
  - Review of possible interactions with other EUMETNET programmes
  - Planning of SRNWP activities for the coming year

# CSSI (and related) matters (1/2)

- We need a new CSSI-Chairperson. Piet Termonia (Be) is the only candidate. The Bureau meeting recommended his nomination. If nominated, Piet would accept to also carry on Andras' work as HIRLAM contact point
- Based upon a joint proposition of Météo-France's LTM and of the ALADIN PM, PAC recommended to redefine the role and missions of the ALADIN-2 coordinator for Networking aspects and to continue the support to the function in its new definitions (Martin Janousek occupies the position, as endorsed at the last GA)
- PAC supported the nomination of Jean-François Mahfouf as CSSI member for 'Surface issues', to be confirmed by GA

# CSSI (and related) matters (2/2)

- PAC recommended to wait for the RC LACE decisions before replacing Sandor Kertesz in its CSSI member position for ‘Observation data’
- The Bureau meeting recommended to adopt the same attitude concerning the replacement of Andras Horanyi as CSSI member for ‘Predictability and EPS’
- We still need a ‘Documentation officer’ in the Support Team; PM had little time to try and find a suitable candidate
- PAC recommended to have CSSI members (but not for attending HMG-CSSI meetings) for LAM-Climate and Nowcasting; idem for the PM’s work

# Programme Manager's activities (1/3)

- **Missions:** 65 working days (37 in Toulouse, 9 in Brussels, 5 in Radostovice, 5 in Oslo, 5 in Dubrovnik, 2 in Paris, 2 in Vienna) for 15 trips
- **Governance:** steps to increase the role and responsibilities of LTMs; following the plan's-, statistics'- and budget's execution; supporting existing documentation efforts
- **Concerning ALARO-0:** one presentation at CNRM in Toulouse for its algorithmics; redaction and maintenance of an ALARO chronology; various inputs for CNRM's CCPP, on demand

# Programme Manager's activities (2/3)

- **Scientific guidance:** mainly on physics (ALARO-0 but not only), dynamics (NH-VFE & others), surface issues, diagnostics (DDHs) & **scientific support:** internal (and external) expertise on about anything
- **Publication:** two reviewed papers published (as 2<sup>nd</sup> and as 3<sup>rd</sup> author) and one under review (as 1<sup>st</sup> author) plus a lot of 'grey litterature' & **teaching** (U-Karlova & U-Gent)
- **Links with the partners:** continuous involvement at the HARMONIE, RC-LACE and EUMETNET-SRNWP level

# Programme Manager's activities (2/3)

- **Miscellaneous:** stepping on for S. Planton as moderator of a debate on Al Gore's film; 1 PhD Jury; various reports (ALADIN-2, GAME, EWGLAM, ...); Radostovice TCA0 (preparation, organisation and teaching; coordinating an ALADIN contribution for a special item in Météo-France's 'Atmosphériques'; ...

# Recapitulation of needed actions

- **Work on the Strategy Document (Agenda Item 7).**
- **Medium-term planning issues (Agenda Item 8).**
- **The budgetary problems (Agenda Item 11c + no preparatory document for the Royalties issue).**
- **How to better ensure Scientific Maintenance commitments for ALARO-0?**
- **Do we need to adapt some of our working procedures the new C-SRNWP situation?**
- **Fixing at this Session of the GA some of the CSSI issues and giving guidelines for the others.**