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The 2011 common ALADIN-HIRLAM work plan



General Assembly (GA)

supreme governing body of the ALADIN Consortium

Chairperson : Henri Malcorps (Be)

Vice-Chairperson : Clement Bergant (Si)

Director of each of the Members (Dz, At, Be, Bg, Hr, Cz, Fr, Hu, Ma, Pl, Pt, Ro, Sk, Si, Tn, Tr)
Observers from HIRLAM and ECMWF

Program Manager (PM)

main executive officer of the ALADIN Consortium

Jean-François Geleyn (Fr)

« Bureau »

GA chairperson, PAC chairperson, CSSI chairperson, PM

Policy Advisory Committee (PAC)

advisory body

Chairperson : Cornel Soci (Ro)

Vice-Chairperson : Aderito Serrao (Pt)

2 MF Members :

- Eric Brun (Fr)
- Vincent Cassé (Fr)

2 RC-LACE Members :

- Gabor Radnoti (Hu)
- Radim Tolasz (Cz)

2 Other Members :

- Abdalah Mokssit (Ma)
- Maria Monteiro (Pt)

Observers :

- LACE Project Leader
- Chairperson of HIRLAM Advisory Committee
- Chairperson of CSSI

Secretariat and budget expertise :

Christian Blondin (Fr)

Programme Team

Local Team Managers

Dz : Abdelhak Razagui
At : Yong Wang
Be : Josette Vanderborght
Bg : Valery Spiridonov
Hr : Alica Bajic
Cz : Radmila Brozkova
Fr : Claude Fischer
Hu : Laszlo Kullmann
Ma : Hassan Haddouch
Pl : Marek Jerczynski
Pt : Maria Monteiro
Ro : Cornel Soci
Sk : Martin Benko
Si : Neva Pristov
Tn : Abdelwaheb Nmiri
Tr : Ersin Kucukkaraca

Project Team

all manpower committed by Members and acceding Members

Committee for Scientific and System/maintenance Issues (CSSI)

Chairperson : Piet Termonia (Be)

Interfacing issues and Scientific coordination with HIRLAM : Piet Termonia

Coordination for networking and interoperability : Tomas Kral

Data assimilation : Claude Fischer

Dynamics and LBC coupling : Pierre Bénard

Maintenance : Ryad El Khatib

Numerical efficiency issues : Martina Tudor

Observations and Monitoring : Alena Trojakova

Physics : Bart Catry

Predictability and LAM EPS : Edit Hagel

Surface : Jean-François Mahfouf

Verification : Marek Jerczynski

Responsible Member for LAM Climate : Ales Farda

Responsible Member for Nowcasting : Yong Wang

Support Team

Consortium level coordination :

Jean-François Geleyn

Consortium level cooperation

support (LACE) :

Dijana Klaric

Consortium level cooperation

support (MF) :

Claude Fischer

Documentation officer :

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Information officer :

Maria Derkova

Administration and PM assistance :

Patricia Pottier

Secretarial support :

Jean Maziejewski

Proposal approved by GA in 2009 and by PAC



- **ALADIN Workshop** (April or May). CSSI (with the help of interested LTMs) draws up a list of topics (at least 'short term priorities' and 'actions needing a steady support'), for which there will be a call to contributions in manpower.
- **PAC Session (May or June)**. The list of topics is confirmed or modified and becomes final for the given year.
- **June to September**. Call for contributions, with answers (by LTMs) in terms of topics, volume of effort, priorities, names (when feasible) and short description of the proposed actions in each country. Iteration with PM and CSSI for immediately identified problems (over- or under-staffing, non-matching of the offer to the actual call, ...). Preparation of a draft-version of the 'partial-work-plan'.
- **EWGLAM-SRNWP, early October**. The draft 'partial-work-plan' is discussed and updated and this 'consolidated version' of it becomes the backbone (transversal to the whole Programme) of the foreseen work in the coming year.
- **Bureau (or PAC) Session, October or early November**. One verifies for the last time the match of the plan with the priorities set by last year General Assembly and the spring PAC Session. Meanwhile, the LTMs have the task to complete the work-plan with broad actions, compatible with the 4-year plan and/or with local priorities. Those tasks must be performed without withdrawing manpower away from the commitments made for the 'backbone' part of the plan. The requirements for precision about these tasks is of course less than for the 'transversal' issues.
- **November**. PM and Chair of CSSI verify the 'complementary' output provided by LTMs to avoid misunderstandings and/or duplications. They prepare a synthesis document for the General Assembly (without yet trying to harmonise every aspect).
- **General Assembly (November or December)**. Remaining issues about over- under-staffing (as identified in the synthesis) are discussed and corrections to the plan (in either of the two parts) are brought in. The final version of the work-plan is thus adopted, with the understanding that the commitments concerning the 'backbone part' have priority over the other ones.
- **January-February**. Following the now well established 'offer vs. demand' method, the 'flat-rate-visits' plan is established. Whenever possible, the 'left-overs' of the work-plan with respect to the 4-year plan are privileged.
- ALADIN Workshop ...

HAC meeting 8-9/6/2010, Helsinki

- HIRLAM Advisory Council (HAC) minutes:

The next step towards an organizational merger could be to define **fully common scientific and work plans**, with priority projects or work packages led by responsible persons either from HIRLAM or from ALADIN.

PAC6: priorities 2011, for which to identify manpower

- Data assimilation, mostly continuation of the 2010 plan
- Verification: needs extra attention after Brac-NH, cfr. The Brac document. This may be a candidate for a common task force with HIRLAM, see the discussion on the MoU4, later.
- Dynamics:
 - nesting (HIRLAM plan) + Boyd's solution + more efficient code (needed by HIRLAM),
 - relaunch DFI work,
 - the dynamical core, prioritizing depends on strategic decision, *input needed from PAC*, see point 6.a.iii
- The convergence actions, reminder
 - Physics-dynamics interfaces: coding should be executed in 2010 (has been pending for too long)! Is priority but get higher priority depending on strategy, see point 6.a.iii
- Physics (SLHD, TOUCANS, 3D turbulence, ...), see discussion Brac. Prioritizing depends on strategic decision, *input needed from PAC*, see point 6.a.iii.
- Surface
 - Multilayer schemes: not directly a priority but is linked to numerical code efficiency!
 - Implementation in ALADIN/ALARO should be finalized and made operational
- Predictability: finalize our capacity building (see GA) and verification (it should be better than ECMWF EPS!). Pending issue: EPS at km scale, cfr. Rejected EUMETNET proposal EUREPS.
- System aspects:
 - **OOPS**
 - Parallellization of SURFEX

Redaction

- Involved:
 - CSSI for content, LTMs for man power contributions
 - HIRLAM PM, HIRLAM project leaders
- Was discussed by the HIRLAM Advisory Committee on 25/10/2010
- Discussed by PAC7, on 30/11/2010

PAC7 comments

- In general the **redaction process** is quite complicated. We will need a bit more discipline next year, with strict deadlines.
- Include **globalized manpower**, e.g. do not give man power per person but per entity: MF, RC-LACE, non-MF non-LACE (not done)
- **OOPS** will be the driving factor for 2011. There are some work packages in the plan, but we will basically (have to) follow the evolutions in ECMWF.
- **EPS** activities are getting too much dispersed and it asks for coordination.
- Problem of the **scalability**. The work of the group of four has not been fully taken into account in this work plan, because they were working in parallel to the redaction of the plan. However, this group will continue its work, see point 7 a.

GLAMEPS

The common HIRLAM-ALADIN GLAMEPS system will become operational in 2011. A demand should be made to ECMWF to make it a time-critical facility at ECMWF. Since such a demand such normally be submitted by an ECMWF member, the HIRLAM project leader proposes to delegate this to the Chair for the HIRLAM Council and the Chair the ALADIN Assembly.

GA is invited to

- **Take note** of the existence of the common HIRLAM-ALADIN work plan 2011, and if they wish make comments.
- This work plan is a crucial step in the **merge between ALADIN and HIRLAM**. Specifically, this plan shows on paper what is already going on: at the scientific basis the barriers between the 2 consortia are roughly removed...
- Consider or make a proposal for the **procedure** for demanding a time-critical facility for GLAMEPS at ECWMF
- GA is invited to think about possible ways how to proceed.
What is next: Strategy, Governance?