

**The main outcomes and decisions from the final discussion the 16th ALADIN workshop, 15-19/05/2006, Sofia, Bulgaria**

Notes taken by Maria Derkova

During the final discussion the short reports of the working groups were given, the main decisions made during the workshop were summarized, and the date/venue and scope of the next common ALADIN/HIRLAM workshop were discussed.

WG on modelling

A report was given by C. Fischer (available on ALADIN web page). The disagreements between people working on ALARO and AROME were discussed again (lack of mutual discussions, information spread and documentation, possibly leading to duplicated work), therefore probably no convergence can be expected between AROME and ALARO for next few years.

WG on data assimilation and predictability

A report was given by F. Bouttier (available on ALADIN web page). Additional question on the importance of the initialization was asked. In GMAP a newcomer will investigate moist initialization, there is ongoing work in HIRLAM as well.

Main outcomes/decisions of the workshop

- The meeting on simplified physics for "synoptic" scale data assimilation shall be organized along the ECMWF seminar, September 2006, with the participation of ECMWF experts (M. Janiskova), HIRLAM (?) and Meteo-France/GMAP (C. Loo, F. Bouyssel).
- The meeting on the strategic issues for "mesoscale" data assimilation shall be organized after the EWGLAM/SRNWP meeting, 13/10/2006 Zurich, with possible participation of N. Gustafsson, X. Yang, S. Tijm, J. Onvlee, M. Lindskog, J.-F. Geleyn, C. Fischer, F. Bouttier, A. Horanyi.
- 3DVAR/ODB practical training is organized in Budapest, 6-10/06/2006. The lecturers will come from ECMWF (S. Saarinen, D. Vasiljevic), MF (L. Auger) and HMS. Primarily organized for HIRLAM people, but limited number of ALADIN participants are also welcome.
- Technical exercise on the observation operators inter-comparison was delayed. From ALADIN side a basic document listing existing obs-operators and ALADIN contact points exist, now their HIRLAM counterparts are to be identified (till September), the real work shall start before the end of the year.
- It was suggested to build an ALADIN 3DVAR (or varpack) demonstration system to attract more ALADIN Partners to start data assimilation activities (may be to convince relevant bosses easier). The technical details shall be discussed between MF and HMS
- HIRLAM organizes a mini-workshop to build HIRLAM EPS system/environment (scripts, verification & visualization tools), 12-16/06/2006 Norrköping. ALADIN participants are also welcome.
- GLAMEPS (Grand Limited Area EPS) proposal was presented. Interested participants (apart from the ones already applied: Sweden, the Netherlands, Spain, Norway, Austria and Hungary) shall contact N. Gustafsson ASAP. The full project proposal (which will be also promoted in the

EWGLAM/SRNWP meeting) of GLAMEPS will be compiled until autumn based on the inputs of the participating institutes. A coordination meeting will be organized in November (13-14) 2006 in Vienna.

- For surface issues data assimilation, modelling and physics should be treated together with the involvement of all the experts of HIRLAM and ALADIN (currently more parallel than common work is ongoing). The knowledge on the work in each Consortia is missing, therefore a short comparative documents/status reports shall be produced to start with (responsible persons: Eric Martin, Stefan Gollvik, Sander Tijm).
- Workshop on surface issues (and SURFEX) is proposed in Toulouse, 11-13/12/2006 (subject to check the dates of HIRLAM Council). Possible participants: F. Bouyssel, P. Termonia, M. Tudor, E. Martin, G. Hello, L. Kraljevic, N. Gustafsson, S. Gollvik, S. Tijm.
- The call for inquiry about local surface physiographic data was made (during the talk of Eric Martin). The contact point for collecting the information is Stephanie Faroux (Meteo-France).
- For validations, there is ongoing work of the "Oslo group" (S. Tijm, G. Hello, M. Derkova) on 3D cases: final selection of the eight real cases will be pursued together with the collection of the corresponding data; agreement should be reached regarding the minimum set of diagnostics; inter-comparison of model results. Similar effort will start for 1D tests (S. Malardel, P. Siebesma).
- EURRA (EUROpean ReAnalysis) project was advertised. F. Bouttier is the contact point for interested ALADIN Partners (2D surface issues) and Jeanette Onvlee for the HIRLAM countries (3D issues). The basic documents shall be widely distributed, and ECMWF shall be contacted for information on current status (J. Onvlee). Until EEA+ECMWF prepares further specifications (within 1 year), our proposals are to be ready by then. A EURRA coordination meeting is scheduled for 27-28/09/2006 in Zagreb, just before the LSC meeting.
- Outcome of the NWP vision meetings states that stronger SRNWP is needed. A common ALADIN-HIRLAM proposal should be prepared for the EWGLAM/SRNWP meetings (Zurich, October, 2006). The harmonization of the three existing documents/reactions (HIRLAM, ALADIN, MF) is to be done. It is recommended that SRNWP follows practices of other EUMETNET programs, i.e. the subprojects in interesting areas (for instance GLAMEPS, verification and validation) shall be identified. Also, SRNWP is not much visible/involved in other EUMETNET programs. Other recommendation is that at EUMETNET sessions directors of both Consortia speak "with single voice". The discussions at EWGLAM/SRNWP should be prepared from our side: M. Alestalo, M. Derkova, C. Fischer, J.-F. Geleyn, D. Klaric, J. Onvlee, P. Unden, A. Horanyi are in charge to prepare the discussion paper for the HIRLAM and ALADIN communities. The share of the redaction work is not yet clear, but the document should be ready and approved by the ALADIN-HIRLAM scientists until the end of summer. Additionally Jean Quiby and the local organizers should be contacted for the organisational (practical) matters.
- For coordination of ALADIN operational switches, more discipline and better communication (including feedbacks) is required. The availability of LBC files from ARPEGE e-suite for all Partners would be beneficial (it is largely sufficient to store them on delage). More communication and documentation concerning the namelists is needed as well. Possible cross representations on ALADIN and HIRLAM system mailing lists.

- Possibility of common standard file formats for post-processed fields will be investigated (R. El Khatib, X. Yang).
- HIRLAM decided to allow an access to restricted part of HIRLAM web to all ALADIN Partners, based on their internet domain recognition.
- The importance of the developments around the Vertical Finite Element scheme was recognised, Jozef Vivoda will have a stay in Denmark to speed-up the developments and cooperation.
- Special project at ECMWF for LBC data: S. Kertesz will provide technical description (user guide); Partners are requested to send proposals for scientific plans to C. Fischer (mid-June).
- LTM meeting is scheduled for October 2006 in Bratislava (currently fixed for 23-24/10).

#### Next ALADIN workshop & HIRLAM All Staff meeting

To be organized by HIRLAM country. The existing rotating principle suggests Norway. They have to search for place with affordable price, which means the date during the off-season, possibly mid-April or mid-May, remembering the public holidays constraints. Concerning the format, it was proposed to organize sessions more "joint", i.e. group talks according to topics and not by Consortia. The big common overview session shall close the meetings. The discussions should be held in smaller groups of people, which would encourage more contributions to discussions.