



Minutes
7th Joint PAC-HAC meeting
Tuesday October 23, 2018
Prague, Czech Rep.



HAC Participants: Halldor BJORNSSON (IC rep.), Javier CALVO (SP rep.), Bart van den HURK (NL rep.), Heiner KORNICH (HAC Chair and SE rep.), Ole KRARUP LETH (DK rep.), Sami NIEMELA (FI rep.), Jeanette ONVLEE (HIRLAM PM), Saji VARGHESE (IC rep.)

PAC Participants: Philippe BOUGEAULT (MF rep.), Radmila BROZKOVA (PAC Vice-Chair), Jure CEDILNIK (LACE rep.), Claude FISCHER (CSSI Chair), Daniel GELLENS (PAC Chair), Alain JOLY (MF rep.), Mohamed MOKHTARI (non-MF non-LACE rep.), Maria MONTEIRO (non-MF non-LACE rep.), Patricia POTTIER (Secretary), Piet TERMONIA (ALADIN PM), Martina TUDOR (LACE PM)

Excused: Branka IVANVAN-PICEK (LACE rep.), Trond IVERSEN (NO rep.), Gintautas STANKUNAVICIUS (LT rep.), Andrew BROWN (ECMWF obs.)

1. Opening and welcome

Heiner (HAC chair) opened the meeting and thanked CHMI for their warm welcome and nice dinner.

2. The agenda below was adopted

| Agenda | Introduced by | Documents |
|--|------------------------|-------------------------|
| 1. Opening and welcome | HAC chair ¹ | |
| 2. Adoption of the agenda | HAC chair | 2_agenda_HAC_PAC_2018-2 |
| 3. Policy issues: convergence (C) | | |
| 3.1. Roadmap progress | ALADIN & | 3.1_roadmap |
| 3.2. Mission scope document | HIRLAM | 3.2_Mission_scope |
| 3.3. Progress on the manpower reporting | PMs | 3.3_Manpower_reporting |
| 3.4. Realisation of Rolling Work Plan 2018 | HAC & | 3.4_RWP2018 |
| 3.5. Rolling Work Plan 2019 | PAC chairs | 3.5_RWP2019 |
| 3.6. Preparation of GA/C agenda | | |
| 3.7. Common code & emerging countries | | 3.7_MF_letters |
| 4. A.O.B | | |
| 4.1. UWC | HAC chair | |
| 5. Date of the next meeting (D) | HAC chair | |
| 6. Closing | HAC chair | |

¹ Following the agreed procedure of an alternate chairmanship for the joint HAC-PAC meetings, the HAC Chairperson chaired the 7th joint HAC/PAC meeting

3. Policy issues

1. Roadmap progress

Piet presented the convergence roadmap and the proposed steps to address the 5 bullets of the 2014 Joint declaration and their progress : main recent achievements are the reorganisation of the common Rolling Work Plan, completed with a common registration of the manpower dedicated to this RWP, and the redaction of the document about the scope of the future collaboration the 3rd joint ALADIN General Assembly & HIRLAM Council tasked the scope Working Group (the 3 PMs Jeanette, Martina and Piet, the chairs and Météo-France PAC participants) to.

2. Mission scope document

A second version of the scope document was distributed as preparatory document to this PAC-HAC meeting : it includes the modifications introduced by the scope WG to take into account the remarks at the previous HAC, PAC and PAC-HAC meetings in Dublin and makes explicit the differences between the current practices and the organization proposed in this document. This version had been discussed during the previous day PAC and HAC meetings : Daniel and Heiner reported on the modifications proposed during these meetings.

The PAC-HAC discussed and agreed on these proposals : the scope WG was tasked to prepare accordingly an updated version of the document (to be presented at the next GA-C) and to further reflect on the quality assurance procedures .

3. Progress on the manpower reporting

The 3rd joint ALADIN General Assembly & HIRLAM Council tasked the PMs and Patricia to propose a manpower reporting to monitor the invested manpower in the common RWP. A tool was developed and had been demonstrated to the ALADIN LTMs and HIRLAM HoRs who had used it for the reporting of the first two quarters of 2018. All Partners have access to their reported data (back to 1991 for ALADIN Partners), with on-line statistics. The ALADIN, HIRLAM and LACE PMs have access to similar results over their consortium.

Piet presented some statistics on the commitments by the Partners to the RWP for 2018 and 2019, in comparison with the realization over the first semester of 2018 : there seems to be more realisation than what was committed for 2018, and the commitments for 2019 are higher than for 2018 (the 2018 commitments were the first ones with the new RWP structure and were probably underestimated); each of the 4 Groupings (HIRLAM, LACE, Météo-France, Flat-Rate countries) roughly contributed to $\frac{1}{4}$ of the total manpower (either committed or realized).

PAC-HAC took note without comment.

4. Realisation of the Rolling Work Plan 2018

Piet presented the comparison between the manpower committed (2018) and reported (first half of 2018) on each Work Packages. Differences exist in the ALADIN and HIRLAM way of considering some activities : for instance, what HIRLAM reports in Quality Assurance and System Work Packages falls under the COM3.1 Work Package for ALADIN.

The PH1 Work Package (Developments of AROME-France and ARPEGE physics) appears artificially understaffed: in the manpower monitoring tool, the work on the LAM Common system is weighted 1; the work on the global model ARPEGE -when expected to be transferred to the LAM systems- is registered as A-H work but with a 0.5 weight. The same rule applies for 2019 commitments but was not used for 2018 commitments.

5. Rolling Work Plan 2019

Piet explained the steps for preparation of the RWP2019 and its status : the HMG/CSSI worked on the main structure of the RWP2019 : the list of the 2019 Work Packages and their lead authors was revisited; a timeline was decided, together with revisited editorial guidelines. The RWP2019 is now

finalized, including the manpower committed by the ALADIN LTMs and HIRLAM HoR for their NMSs.

Piet also showed some statistics on the distribution of committed manpower among the Work Packages.

PAC-HAC acknowledged the usefulness of such graphics for resources planning.

PAC-HAC commented that the two strategic programmes appear to get low resources.

- for SPDA (Basic Data Assimilation setup), Piet explained that this program mainly covers the coordination necessary to help Flat-Rate Partners to apply Data Assimilation operationally. Other R&D on Data Assimilation is included in the DA Work Packages; the total (SPDA+DA) makes DA by far the most staffed topic.
- for SPDY (Dynamics and scalability) the low resources point the lack of skilled people: PAC-HAC recommended to tackle the staff issue on SPDY, a first step being to organise a meeting similar as the Dynamics Days that were organized in Toulouse in 2016.

Martina explained that the LACE management work package appears quite staff consuming compared with the other management work packages as it includes contribution to ALADIN management from the LACE countries.

6. Preparation of GA-C agenda

The next meetings of the ALADIN General Assembly and HIRLAM Council will be held in Zagreb, back-to-back with the EUMETNET/ECOMET meeting, according to the following schedule:

- 19 November 2018 afternoon: ALADIN GA,
- 20 November 2018 morning: LACE and HIRLAM Councils in parallel,
- 20 November 2018 afternoon: joint ALADIN-HIRLAM meeting,

PAC-HAC reviewed the draft agenda of the joint GA-C prepared by the PMs and the support team. It will be proposed to the GA and C chair persons (web conference with the PMs).

7. Common code and emerging countries

Meteo-France had opened a discussion within ALADIN/HIRLAM/LACE Partners on the possibility to provide the shared ALADIN-HIRLAM codes to NHMS from non-European emerging countries.

PAC-HAC recommended to agree on this proposal considering that:

- helping emerging countries seems right,
- it would increase the visibility of the consortium,
- it would bring more people to learn about and use our codes,
- newcomers from ALADIN-HIRLAM Partners also need training and organising joint trainings could be a win-win solution,

as long as:

- **this would not put an extra stress (manpower, money) on the consortia;**
- **the decision would be taken on a case-by-case basis by the ALADIN General Assembly, HIRLAM Council and ECMWF Council;**
- **the resources necessary to train and support these NMSs would be carefully estimated and billed.**

4. **A.O.B.**

Jeanette presented the United Weather Centres (UWC) collaboration of 10 Parties (mostly HIRLAM NMSs, but with also Latvia and without Spain) to enable Parties to accomplish joint operational exploitation of a science-based limited-area NWP system, including ensemble prediction and the related pre- (and post-) processing activities and the availability of a suitable HPC infrastructure from 1st of January 2028. The sub-group UWC West will accomplish these goals before end 2022. In parallel, the existing operational collaboration of MetCoOp will be extended towards the Baltic States to form UWC East.

Daniel reported the question raised by PAC about the relationship between the UWC and the HARMONIE-AROME CSC and the impact of the UWC project on the ALADIN-HIRLAM convergence.

Jeanette explained that, for the time being, HIRLAM is responsible for HARMONIE-AROME CSC, its evolution and its quality assurance. UWC East, UWC West and Spain will use HARMONIE-AROME CMC. A governance should be found to insure the evolution of the HARMONIE-AROME CMC and define who endorses its responsibility: discussions on possible future of the HIRLAM cooperation beyond 2020 (in the light of the formation of a joint ALADIN-HIRLAM consortium and of UWC developments) are already on-going.

LACE expressed the necessity to keep its close cooperation and structure allowing for a tractable and reactive management.

PAC-HAC underlined the necessity of having a responsible body (NMS or Grouping of NMSs) for each CSC and the importance of organising a full access to all 3 CSCs to all NMSs or Groupings of the future single consortium, whatever the perimeter of the Groupings of Partners might be inside the future single consortium.

5. Date and place of the next meeting

Two joint meetings will be necessary in 2019 to prepare for the single consortium: PAC-HAC agreed to meet on 13-14 May 2019 in Norrköping (Sweden) and on 4-5 November 2019 in Toulouse (France).

6. Closing

Heiner thanked the participants for the good discussions and the progress in the scope document and closed the meeting at noon.