

Draft Minutes of the ALADIN regular 15th General Assembly
Prague, December the 14th & 15th 2010

1. Welcome and opening of the meeting at 13h30 on 14/12/10

The General Assembly chairman (GA Chair, Klemen Bergant) warmly welcomed the members of the 15th GA, in particular the members participating for the first time: Mrs. Aurora Bell (Romania), Mrs. Tania Marinova (Bulgaria), Mr. Michael Staudinger (Austria), Mr. Krzysztof Lubomirski (Poland), Mr. Vladimir Rak (Slovakia), Mr. Huseyin Yozgat (Turkey) and Mr. Bachir Hamadache (Algeria). A full list of attendees is attached as Annex 1.

Ivan Obrusnik took the floor and, on behalf of the Czech Hydrometeorological Institute (CHMI), welcomed the participants and expressed his pleasure to host the GA, especially as this GA includes an important milestone with the signature of new MoU and also will be the occasion to proudly celebrate the ALADIN 20th anniversary this year.

2. Adoption of the Agenda and of the Minutes of the 14th GA (GA Chair).

The proposed agenda with slight modifications (added points 5d and 9b) was approved by the GA.

The GA Chair appreciated the preparation of the report/minutes from the last GA by Patricia Pottier, which were provided in time and in a good shape. As no additional comments were made on the spot, the GA unanimously adopted the report/minutes of the 14th GA.

As for 14th, a copy of the presentations will be joined to the Minutes and available on the aladin website.*

3. Report about PAC sessions (the PAC 6th Session took place in Bucharest, 3-4/6/2010 and the PAC 7th Session in Budapest, 30/11/2010) (Radim Tolasz).

Radim Tolasz summarized the last two PAC sessions.

The PAC approved of the research and development content of the work-plan, but was concerned that it didn't reflect enough the ALADIN strategy. The PAC would have liked to have more details about the level of the code affected by the Object Oriented coding.

About ALADIN program definition, the PAC standpoints about several points of the GA agenda (7a, 7b and 7c) were briefly presented.

Concerning budget matters, the PAC took note the 'zero-targeted' budget sum at the end of MoU3 which will be almost zero, like aimed at. The PAC also noted that the flat-rate cross-visits are still too much realized via the stays involving Météo-France and/or RC LACE countries and not via stays implying two NMS paying themselves to the central budget.

See on-line the presentation for more details.*

The GA noted the information about the last two PAC sessions with no comments.

4. 'Classical matters' for the past year:

a. Operational report (Claude Fischer):

Claude Fischer presented the operational report including latest Météo-France development in the area of data assimilation, ARPEGE physics changes, latest progresses related to AROME, increased

resolution of the ensemble prediction system (PEARP) and a status of ALARO versions in the ALADIN partners operational implementations.

The operations overview in partner centers was only partly available as, despite local operational changes, not so many LTMs had updated the relevant information on the documentation webpage.

b. Maintenance report (Claude Fischer):

Claude Fischer (CF) gave the calendar of past and future cycles and the statistics of manpower dedicated by partners for both phasing and other maintenance. *See on-line presentation* for more details.* Some maintenance is realized outside Toulouse. The phasing exercises in Toulouse will continue, including invitation to 6 week stays for IFS/ARPEGE phasings but with also a possibility to pair 2 times 3 weeks for interim cycles (to address personal availabilities).

CF informed about the maintenance training, which was organized in Toulouse in September 2010 (all participants appreciated the efforts of Olivier Riviere and the RC LACE support). He personally stressed, that although this workshop was successful, knowledge of the inside of the code must be gained through R&D work between experienced and new staff, as much as possible everywhere in the Partner countries.

CF presented the status of Object-Oriented Prediction System (OOPS), indicating that the analysis of the current Fortran source code (modularization) has started and that it will not stay at the level of the assimilation code only. He also emphasized that we must get interested and get understanding of the benefits of OO and that the OOPS project/action will require participation of experienced ALADIN staff.

The ECMWF observer (Dominique Marbouty) commented that the aim to launch OOPS was to 1) make the learning and training procedure easier and 2) to ease the future ARPEGE/IFS code developments related to data assimilation mostly (e.g. EnKF).

The CSSI Chair pointed that the OOPS Project has been evolving rapidly over the last months, so that it is not yet reflected in the 2011 workplan.

Claude Fischer agreed with the ECMWF observer on the needs to clean the code, but stressed that we should be cautious not to create a complexity over already complex code.

The GA expressed concern that the internal transfer of technical knowledge within local teams is not optimal/sufficient. The GA nevertheless supported the proposal to keep regular maintenance trainings in the future.

c. Manpower figures for 7-09 to 6-10 (Patricia Pottier).

The breakdowns of the manpower by partners were presented (cumulated since the beginning of the project and during the MoU3). *See on-line the presentation* for more details.*

The ALADIN PM commented that the manpower statistics give interesting figures of the ALADIN project and in his opinion they are very valuable for the project, but there is a lack of homogeneity of the reporting practices. Thus the ALADIN PM asked the GA for an actualization of recommendation of reporting practices, he suggested that Patricia Pottier and Piet Termonia as future ALADIN PM prepare a template for the reporting, updating past similar efforts.

The GA supported the ALADIN PM's proposal and appointed Patricia Pottier and Piet

Termonia to revise the guidelines for reporting practices and consider how to best present the results till next PAC session. Then, if needed at the GA level, a vote by correspondence could be made concerning the guidelines adoption.

5. Budget matters:

a. Report about the ongoing execution of the 2010 budget (ALADIN PM):

The ALADIN PM reported on the 2010 budget. The last GA in 2009 requested to have a transition to MoU4 with zero surplus for the so-called ‘flat-rate budget’ and with as little as possible unexecuted actions in 2010. Finally, a rather small amount of missed actions for a total of 4060 € within the flat-rate budget mechanism was achieved. The ALADIN PM stressed that the above mentioned misses are mostly due to some systematic non-attendance of Workshop, a recurrent problem that the GA might decide to take up more strongly in the future.

Claude Fischer pointed out that GA should be aware of that the convention agreements concerning flat-rate funds between Météo-France and each corresponding flat-rate country expire by 2010 and hence that the conventions have to be renewed.

Each flat-rate Member pays from its own budget all expenditures related to administrative or cooperation overheads and mobility for which he/she carries out the financial control in accordance with the annual work plan. Reimbursement of these expenses by the central budget is done separately. The French delegation (Claude Fischer and Alain Ratier) explained that there exist two approaches to execute the flat-rate actions:

- Some partners chose to work with Météo-France in “differential mode”: they fund the actions under their own national rules and internal logistics. In terms of ALADIN compensation rates, the corresponding amounts are deduced from their flat-rate contribution. Thus, they only pay the residual amount (of course, those countries having a negative residual amount will receive money).
- The other countries (“absolute mode”) pay the total flat-rate amount to the budget and will receive an amount of money corresponding to the actions they funded. and that Météo-France would prefer differential mode of payment in the future (to avoid one transaction) whenever this is possible for the flat-rate country.

The GA took note of the 2010 budget execution and that concerning flat-rate payments, Météo-France prefers the differential mode whenever possible.

b. Adoption of the 2011 budget (CSSI Chair):

The CSSI Chair presented the recommendation of the 6th session of ALADIN PAC

- to put the actual figure of the flat-rate ‘ceiling’ in the text of the MoU4
- to make it a sum now evolving with inflation (also via the text of the MoU)
- to give the 2011 starting value of 8200 €

The inflation will be estimated over Euro zone (source : Eurostat : ec.europa.eu/eurostat)

The GA approved the budget.

c. Royalties-linked issues (ALADIN PM):

Just for information of GA, the ALADIN PM shortly summarized budgetary aspects of the ALADIN royalties : the amount to share is slightly higher than last year and the share has been done according

to the new recording of manpower. The ALADIN PM pointed a slight relative decrease (resp. increase) for LACE (resp. Météo-France) as also shown in Patricia Pottier's human resources presentation.

The GA noted the ALADIN PM report about the Royalties.

Alain Ratier explained the rather uncomfortable problem with unclaimed royalties. Some partners didn't claim the royalties for 2007, 2008 and 2009. It is essential to send an invoice before the end of corresponding ensuing year. The invoices are to be send to Météo-France International (not Météo-France !). As the procedure is administratively rather complicated, partners have the last chance to do so till the end of 2010.

The GA urged those ALADIN partners who didn't claim the royalties for 2007, 2008 and 2009, to do so till the end of 2010.

d. Possible creation of an ALADIN “trust-fund”

Based on a request of EUMETNET C-SRNWP Programme Manager to find a solution for maintenance, update and upgrade of the Lake database for the best use of LAM community and missing funds to cover potential unplanned but important and urgent actions within ALADIN Consortium, the GA Chair presented the proposal to establish an ALADIN “trust-fund” with a purpose of financing some additional unplanned actions relevant to the ALADIN progress.

The ECMWF observer offered to financially cover the maintenance, update and upgrade of the Lake database as the ECMWF uses the Flake model and that such a proposal also fits the ECMWF role to foster such transversal actions. It was proposed that Jean-François Mahfouf (Météo-France) should contact the ECMWF observer to arrange this.

The GA chair appreciated the offer of ECMWF and based on the discussion concluded that there is no need for the establishment of an ALADIN trust-fund.

6. ALADIN MoU4 (GA Chair):

a. Decision about the final content of the document (only changes of minor scope and unanimously approved could happen at that stage):

The GA Chair thanked the redaction committee and others who contributed to the preparation of the text of the ALADIN MoU4 and asked for comments.

Henri Malcorps suggested the correction of his title to be Director General instead of Director.

The GA adopted the text of the ALADIN MoU4 with minor modification suggested by Henri Malcorps.

b. Transition from MoU3 to MoU4: practical steps.

The GA Chair explained the practical steps of transition from MoU3 to MoU4 . He reminded the GA of the procedure for the choice of the next ALADIN PM : a candidacy and vote by correspondence was completed in June 2010, according to the last GA decision. This procedure lead_s to the designation of Piet Termonia as new ALADIN PM. The GA chair then explained the follow-on steps :

- search for the CSSI Chair (as Piet Termonia can't handle both positions),
- PAC membership,
- practical details for the signature of the next MoU.

7. Important issues for the planning:

a. Strategic issues: BRAC-HR report and follow up, 2011 planned workshop:

The CSSI Chair and the ALADIN PM reported about the strategic meeting in BRAC-HR and related outcomes of the PAC meetings (*see on-line presentation**).

Ivan Obrusnik (IO) remarked that we should take in consideration the future operational implementations while drafting the strategic plans.

The ALADIN PM agreed with Ivan Obrusnik and pointed to a semi-failure of the BRAC-HR meeting, excessive concentration on scalability issue and neglect of algorithmic and scientific challenges, like the phys-dyn interaction, which is already an issue at the scales we use.

Alain Ratier mentioned that he agreed with the stratified work proposed by Piet [Termonia](#): we need to prepare long term plans, to improve our forecast and to buy new computers. He also raised the following questions for consideration by the GA : do we plan to scientifically tackle all these issues before or during the strategic workshop and what do we expect from this workshop ?

The RC LACE PM (Dijana Klaric) explained that the workshop should consider ALADIN/HIRLAM plan and strategy. In her view we need clear guidelines for the meeting and if we anticipate that we can't handle all of them, we (= scientists) could consider to discuss some parts during the all staff meeting / workshop earlier on.

The HIRLAM PM agreed with Dijana Klaric and pointed out that the outcome of the strategic workshop should be a scientific strategy and working plan for next 5 years along with a vision for the next 10 years. Thus, this workshop essentially concerns the Head of Research, whereas the GA should be rather interested in the outcomes.

The GA Chair summarized that the GA takes note on the current situation about strategic issues and welcomed the invitation to the follow-up workshop by HIRLAM. The GA will look forward to getting a detailed report from the strategic workshop at its next Session.

Ivan Obrusnik stressed that a clarification of our main aim is missing, namely the improvement of our operational products for the next 5-10 years, e.g. the high impact weather. Efficiency may be a key issue, but we should not finish with NWP codes which, for being efficient, do not offer all the tools necessary for reaching an optimal quality of products.

Ivan Cacic agreed with Ivan Obrusnik and pointed out the need to prepare a document for the GA and not for the scientific community.

The CSSI Chair stressed that we should not mix scientific strategy and internal strategy of each Partner's institute.

Adérito Serrão suggested to define deliverables to PAC and simplify presentation for the GA.

The GA took note on the current situation about strategic issues and welcomed the invitation to the forthcoming workshop devoted to strategy and planning organized by HIRLAM next year (with Heads of the Research as targeted participants). The PAC should evaluate the outcomes and is supposed to extract a document for the GA. The GA will look forward to hearing more details during its next Session.

b. Update about 'Convergence':

The ALADIN PM presented a few facts and thoughts about 'convergence'. There seems to be some consensus for pursuing the first two actions A and B (DDH-type diagnostics and governing equations

and tendency computations), but for actions C (microphysics) & D ('3MT in ARPEGE') the issue is far less clear-cut. The PM formulated the following options (verbatim' from his slides):

- 1) Withdrawing actions 'C & D' from the 'Convergence' process.
- 2) M-F commits itself to make PC-MT '*ALARO-physics-compatible*', so that Partners may make extensive clean comparisons of the respective merits of PC-MT and 3MT.
- 3) Partners and M-F codify clearly what was vaguely called '*3MT in ARPEGE*' in 2008. M-F accepts that Partners will do the relevant development, with a bit of help for validation. The resulting 'tool' is available for tests alike in solution '2'
- 3 bis) may be considered : 3) with additional constraints on geometric treatment and "resolved <=> parameterized" handling.

As the option (2) is not possible for Météo-France according to its own say at PAC, there remain only options (1) and (3bis) for the GA discussion.

The GA Chair generally commented that the ALADIN PM comes to the GA with scientific problems and asks the GA for a solution.

Claude Fischer added that MF has found significant scientific problems when evaluating the possibility to make its ARPEGE physics ALARO-compatible. This issue is why the track of "3MT in ARPEGE" has not been continued.

The ALADIN PM replied that this is not a scientific problem. People not interested in 'Convergence' are trying to sell the idea that 'common code structures', 'true interoperability' and 'algorithmic constraints' are an open subject of debate between scientists. Yet without such 'rules' Programs like IFS/ARPEGE and ALADIN never could have been realized.

Alain Ratier suggested that it is not a good idea to go for option (1), i.e. basically to forget all what was done and that Météo-France would prefer option (3bis). He reminded that Philippe Bougeault has committed to explore solutions for a continuation of the actions by re-defining actions 'C' and 'D', with a target for a new proposal at the next PAC meeting in June.

The CSSI chair recalled the importance of the convergence actions. If we have two exclusive systems, with no clear rules for deciding between the two, there may come a moment in the future when a decision will have to be taken by arbitration. The future PM would then have to play a central role, which is not a good way to decide. The aim of the convergence actions was to avoid such beauty contests [by avoiding that the systems are mutually exclusive]. Of course, arbitration can be possible, but is the worst approach to solve conflicts. In contrast, scientists are sensitive to arguments, provided that they are based on sensible rules.

Yong Wang asked whether it was realistic to hope that the GA will solve such a complex technical question which has been a matter of continuous debate for years.

Claude Fischer asked for a clarification between phys-dyn interaction (PDI) and phys-dyn interface. The PM answered that PDI is more about model meteorological performance; whereas the interface is about interchanging physics options at low level and it is wrong to mix them.

About the lack of willingness addressed by the PM, Claude Fischer recalled to GA that MF physicists have indeed studied the Alaro/3MT code, and have found scientific choices which they would not follow. They also have raised the issue of the complexity of some pieces of code, which is an aspect of the scientific debate.

Piet Termonia pointed out that something was done (two of four tasks are on good track) and expressed his view that it is worth working further on this.

The GA Chair proposed to leave this item for further elaboration by the PAC.

Henri Malcorps suggested to nominate a small team to sort it out.

Alain Ratier suggested to give a chance to the Working Group proposed by PAC-7 to process until next PAC. Then, the PAC will re-examine the issue and recommend to the next GA. If the Working Group does not find an agreement, then the GA might decide to terminate these two actions.

The GA supports the proposal to create a Working Group coordinated by the ALADIN PM and Philippe Bougeault. The task of this WG is to provide a plan for the next PAC meeting along the lines of option 3-bis. The PAC should evaluate the proposed plan and give its conclusion to the next GA.

c. SURFEX related issues.

The CSSI Chair presented context and status of the surface scheme originating from the meso-NH community (SURFEX) and used in the operational application of AROME, but not in ALADIN/ALARO applications (due to performance problems and unaccomplished reproducibility with the current scheme). The CSSI Chair reported the proposals from the 7th session of PAC and, based on it, proposed that the new ALADIN PM will, with technical support from the CSSI, coordinate tests (performance+reproducibility) by the partners and that Météo-France will analyze how to create a governance of SURFEX, first internally but with a look at transversal maintenance issues. The results of this will be scrutinized in PAC, 6-7 June Brussels 2011.

Radmila Brozkova mentioned that RC LACE Steering Committee asked for the status of SURFEX. She regretted that MF does not have SURFEX as a firm plan for ARPEGE and considered this as a lack of interest from Météo-France to make SURFEX compatible with ARPEGE/ALADIN. RB also thinks that SURFEX in ARPEGE would be more beneficial for ALARO.

The CSSI Chair reported he had spoken with Météo-France people in a very constructive way and proposed to give them some time (manpower is limited everywhere and we cannot ask for everything right away).

The HIRLAM PM (Jeanette Onvlee) mentioned that the HIRLAM community has experiences with SURFEX in the context of AROME and ALARO : they sorted out both technical and scientific issues JO expressed the need for common testing and appreciated the efforts related to the governance.

Claude Fischer referred to the operational use of SURFEX in the operational application of the ALADIN oversea models, and the plans to use SURFEX with surface analysis in ALADIN-France in the next operational version.

Radmila Brozkova added for better methods of work. The CSSI chair answered that it is exactly what he proposes (coordinate tests by the new PM and work of SURFEX governance by Météo-France).

The GA took note of the information related to SURFEX and supported the CSSI Chair's proposal that the future ALADIN PM will coordinate tests by the partners and Météo-France will work on the governance issues.

Special presentation: New operational configuration of ALADIN at CHMI (Radmila Brožková)

Radmila Brožková (RB) presented status of the ALARO operational applications at CHMI. In 2010 the resolution of the main model got enhanced to 4.7km (540x432 points) and 87 levels. Technically it was possible thanks to new supercomputer cluster of two NEC-SX9 nodes, scientifically mainly due to the moist physics scheme 3MT. Traditional scores got improved as well as forecast of major flood event. Gain in computing performance thanks to the hybrid parallelism even on few cores was shown. An example of physics-dynamics interaction due to horizontal diffusion was demonstrated, as the

result of recent scientific work. Main operational goals for 2011 are new turbulence scheme TOUCANS, further enhancements of the 3MT by the work on COST ES0905 action, cost-effective and precise radiation scheme, and introduction of 3DVAR.

8. Programme Managers' reports from 2010:

a. ALADIN work in the intersession (ALADIN PM):

The ALADIN PM reported about the events from the last GA session : the work on MoU4, the strategic prospective BRAC-HR meeting and relevant PAC actions, the work on the common ALADIN-HIRLAM work-plan, links between ALADIN work and the EU COST-ES0905 action. He made a special highlight of the work on Cellular Automaton inclusion in ALARO by Lisa Bengtsson-Sedlar from Sweden, and wished more such true 'harmonious' work for the future, without him as PM.

b. HIRLAM aspects of the joint actions under HARMONIE (HIRLAM PM):

The HIRLAM PM reported about the latest HIRLAM organizational developments (MoU HIRLAM-B, updated strategy and new management group) and the road towards operational use of HARMONIE. HIRLAM teams tested AROME with great satisfaction : an extensive validation of HARMONIE/AROME showed good performances especially for severe weather cases. Concerning performance issues and priorities, she stressed the importance of sufficiently large domains for high resolution model's quality and the need of effective approach to performance and scalability issues (coordination and exchange of information). Last but not least she presented the status of GLAMEPS-v1, with emphasis that EUROTEPS brings no advantage over ECMWF EPS, which is hence used as primary source for GLAMEPS.

The ECMWF observer asked which resources are used in ECMWF for GLAMEPS ?

The HIRLAM PM answered that only national resources (HIRLAM partners, Belgium) are used for GLAMEPS.

The representative of Turkey asked if it would be feasible to extend the domain in order not to have Turkey so close the edge of the domain ?

The HIRLAM PM answered that it would be feasible, but computational resources of Turkey would be appreciated (and needed) to cover this.

c. Relevant outcomes of the recent RC LACE Council (RC LACE PM):

The LACE PM reported the progress of the LACE projects 2008-2010 and the relevant decisions to improve the presentation of the Project outcomes (how to track the progress: measures of scores or better forecast of high impact weather), to improve the communication between NWP and forecasters communities, to further develop the common observation pre-processing system (OPLACE) and extend the domain of LACE LAM-EPS application (ALADIN_LAEF). She also presented the outlook for 2011-2012 to accomplish the LACE Projects, to head for data assimilation of the radar data and to focus on challenges of development for the high resolution.

d. Transversal issues (SRNWP EUMETNET Programmes, etc.) (CSSI Chair).

The CSSI Chair reported briefly about the future structure of EUMETNET and ongoing SRNWP Programs.

He reported briefly about the outcome of the recent SRNWP Interoperability workshop (Reading, Dec 1-3), where it became clear that this Program was a bit too ambitious. In ALADIN, work is

progressing very slowly and we have only the old convertor adapted for GRIB-2.

He also reported about the outcomes of the ECMWF TAC subgroup to review BC project for EPS LBCs.

Finally he suggested the GA to take note of main events for 2011 and pointed out that activities on LAMEPS are quite dispersed and some more coordination is surely needed.

The ECMWF Observer pointed out that IFS upper-air fields will change format to GRIB-2 in mid April 2011.

9. ALADIN planning (CSSI Chair):

a. Common ALADIN-HIRLAM plan for 2011.

The CSSI Chair recalled the procedure of the ALADIN planning already approved by the GA and reported about the relevant outcomes of the HIRLAM Advisory Council and the PAC.

The GA took note of the existence of the common HIRLAM-ALADIN work-plan 2011.

b. GLAMEPS specific issue

The CSSI Chair informed about the plan to make the common HIRLAM-ALADIN GLAMEPS system operational in 2011 and invited the GA to consider making a proposal for demanding a time-critical facility for GLAMEPS at ECMWF.

The ECMWF observer preferred a joint request from both consortia rather than two single requests.

The GA will wait for the report of the GLAMEPS subgroup and subsequent decision of HIRLAM Council and, with these elements, it will decide whether to authorize the GA Chair to co-sign (together with the HIRLAM Council Chair) a letter with request towards ECMWF.

10. Appointment of next CSSI Chairperson (GA Chair).

Aderito Vincente Serrao proposed Claude Fischer, who is well known to the GA and whose efforts have been appreciated for a long time.

The GA approved and congratulated the new chairperson.

11. Appointments of the PAC Chairperson and Vice-Chairperson (GA Chair).

Henri Malcorps proposed Aderito Vincente Serrao as PAC Chairperson and Ivan Cacic proposed Michael Staudinger as Vice-Chairperson.

The GA approved and congratulated the new chairperson and vice-chair person.

12. Provisional appointment of regular PAC members and substitutes (to become official after the definitive signing of the MoU4) (GA Chair).

Laszlo Bozo proposed Radmila Brozkova and Vladimir Pastircak as regular PAC members and Miklos Voros as the substitute from RC LACE.

Alain Ratier proposed Philippe Bougeault and Alain Joly as regular PAC members and Gwenaelle

Hello as the substitute from Météo-France.

The GA chair proposed to keep Maria Monteiro and Abdalah Mokksid as the regular PAC members and to choose Faith Buyukkasabbasi as the substitute from Flat-Rate countries.

All those proposals were approved by the GA.

The GA Chair appreciated the efforts and the excellent work of Cornel Soci (former PAC Chair) and kindly asked Aurora Bell to pass on the GA gratitude to him.

13. A.O.B.

None.

14. Date of the next General Assembly (and confirmation of the places for the next two General Assemblies).

Alain Ratier confirmed that the next GA will be in Toulouse, France, 15-16 November 2011. And Yong Wang kindly invited the GA for 2012 to Austria. The GA approved.

15. **Address to the Delegates of the 16 Partners by Mrs. Rut Bízková, Czech Deputy Minister of the Environment.**

See the on-line address for more details.*

16. **Definitive signing of the MoU4 at 11h45 on 15/12/2010.**

The GA delegates signed the MoU4.

17. Confirmation of the appointments and formal closing of the GA (GA Chair).

After the signing of the MoU4 the GA formally confirmed the appointments of CSSI Chairperson, PAC Chairperson, Vice-Chairperson and regular PAC members and substitutes. The GA Chair closed the meeting with a recall of the importance of the signing that just took place and thanked CHMI for the very good support, organization and hospitality.

In continuation, post-GA event: CHMI-organized press conference.

Annex 1 . List of Participants to the ALADIN 15th General Assembly

Country	Name	First-name	Signing MoU4
At	Staudinger	Michael	
-	Wang	Yong	*
Be	Malcorps	Henri	*
-	Termonia	Piet	
Bg	Marinova	Tania	*
Cz	Obrusník	Ivan	*
-	Tolasz	Radim	
-	Brožková	Radmila	
-	Váňa	Filip	
-	Trojáková	Alena	
-	Vančura	Karel	
-	Dvořák	Petr	
Dz	Hamadache	Bachir	*
Fr	Ratier	Alain	*
-	Fischer	Claude	
-	Pottier	Patricia	
-	Geleyn	Jean-François	
Hr	Čačić	Ivan	*
-	Ivančan-Picek	Branka	
-	Klarić	Dijana	
Hu	Bozó	László	*
Ma	Chafki	Omar	*
Pl	Lubomirski	Krzysztof	*
-	Jerczynski	Marek	
Pt	Serrão	Adérito	*
Ro	Bell	Aurora	*
Si	Bergant	Klemen	*
Sk	Rak	Vladimír	*
-	Pastirčák	Vladimír	
Tn	Fehri	Hichem	*
Tr	Yozgat	Huseyin	*
-	Buyukkasabba si	Fatih	
HIRLAM	Onvlee	Jeanette	
ECMWF	Marbouty	Dominique	

*a copy of the presentations will be joined to the Minutes and available on the aladin website :
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