

## **Report on RC LACE Data Manager Activity**

for the period of 1<sup>st</sup> June – 31<sup>st</sup> December, 2008  
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This report summarizes work of the RC LACE Data Manager (DM) during last year. Following areas were of DM's main interest: assistance in ODB related activities, support for development and maintenance of observation pre-processing tools and of an interactive web-based observation monitoring system.

### **On demand help in ODB related activities**

ODB related support was provided up on request, unfortunately not many LACE Members asked for it. It seems that more advertisement should be done in the future. The main activity was devoted to the development of “user and installation guide” type of documentation about the ALADIN data assimilation system. The documentation was based on RC LACE forum web environment, which allows direct interaction of registered users, see [www.rclace.eu/forum](http://www.rclace.eu/forum).

During Management Group meeting a unified scripting system was considered. The unification of the scripting system is aimed to help an installation of assimilation suites and decrease local maintenance of home-made system of LACE Members. It was decided to investigate possible use of HARMONIE system for LACE. The DM together with Area Leader for data assimilation (ALDA) and Aladin System Coordinator (ASC) examined HARMONIE system, basic overview was summarized on LACE Steering Committee (LSC) meeting in Bratislava, but no final decision was taken as LSC asked for more information. Then more detailed report together with proposal of further actions was provided and has to be approved by LSC. Here follows its summary: “*Based on our experiences from local testing and dedicated workshop on HARMONIE system we propose to continue the brick approach so that everybody gains some experience with DA for the short term (next 1-2 years). Concurrently we would propose to dedicate an effort to HARMONIE script system development (to include all the needed elements we miss at the moment) to be able to use HARMONIE on the long term (2-3 years) as a unified script system for compiling and running the model. The HARMONIE could be used for research as it is. For operations we would propose to treat the unified script system (HARMONIE) as an element of the local operational suites, which provides the raw model outputs for all our post processing, which would remain different in all countries.*”

	Plans for 2008	Realization by 31 <sup>st</sup> December
ODB support	0.5 PM	0.50 PM
Documentation	1.5 PM	0.50 PM
HARMONIE vs BRICK	0 PM	0.75 PM

### **Development and maintenance of observation pre-processing tools**

Within the scope of “Project of development of an operational data assimilation system for LACE” the DM provided support related to the centralized pre-processing of observations. Two weeks stay was carried out in Hungarian Meteorological Service (HMS), where possible approaches to common observation pre-processing system for LACE (OPLACE) implementation were investigated and part of the stay was dedicated to the technical improvement of current observation pre-processing at HMS. Not all issues were finished during the stay and consecutive work was dedicated to further development and testing of essential tools for OPLACE and examining feasibility of the use of BUFR format in observation pre-processing. More detailed report can be provided upon request.

	Plans for 2008	Realization by 31 <sup>st</sup> December
Stay in HMS	0.5 PM	0.5 PM
Support for pre-processing	1 PM	1 PM

### **Development and maintenance of an interactive web-based observation monitoring system for the ALADIN variational data assimilation systems (3D-VAR, 3D-FGAT).**

The prototype version of this system has been developed by S. Kertész. An export package was prepared including installation procedure description for testing purposes. More comprehensive users guide should be written.

	Plans for 2008	Realization by 31 <sup>st</sup> December
Export package	0.25 PM	0.25 PM

## Summary

Following table provides summary of plan and its realization by 31<sup>st</sup> December 2008.

### Summary of the planned RC LACE Data Manager Activity for 2008

	Plans for 2008	Realization by 31 <sup>st</sup> December
ODB related activities	1.75 PM	1.75 PM
Observation pre-processing	1.50 PM	1.50 PM
Observation monitoring	0.25 PM	0.25 PM
<b>Total</b>	<b>3.5 PM</b>	<b>3.5 PM</b>