

RC LACE Data Manager

Draft of working plan

For the period of
1st January - 31st December, 2010

Prepared by Alena Trojáková, September, 2009

This is tentative plan of the RC LACE Data Manager (DM) activities for next year. Please note that the priorities can change during the period and efforts and/or schedule can be adapted accordingly. Here follows the list of the items which are expected to be of the DM's main interest:

1. On demand help in ODB related activities

- The DM will be available for ODB related support in case of requirement from local staff of LACE members, which include help in the configuration and usage of ODB and ODB related applications at RC LACE members' site.
- The DM will act as ODB contact point. An ODB contact person should be informed about the latest releases and developments by the ODB database developer and could help to solve the emerging problems and further spread the information inside the community. RC LACE members are kindly asked to address the questions through ODB contact person (not directly ODB database developer).
- The DM will continue to update and maintain RC LACE forum, mainly "user and installation guide" type of documentation about observation usage in the ALADIN data assimilation system.

Priority: high

Realization: Prague or short stay in members' site if required

Estimated efforts: 1 PM

Proposed contributors: DM

Schedule: continuous work

2. Development and maintenance of observation pre-processing tools

- The DM will provide support for data assimilation project related to the centralized observation pre-processing for LACE (OPLACE)
- The DM will include newly usable observation types in ALADIN into the pre-processing system
- The DM will ensure co-ordination in the use and decoding of observation with Météo-France and HIRLAM.

Priority: high

Realization: Prague, Budapest

Estimated efforts: 1 PM (short stay in HMS if necessary)

Proposed contributors: DM

Schedule: continuous work

3. Exchange of national (non-GTS) SYNOP data

This task was underestimated during the last year planning and the continuation is expected during 2010. Based on the final report and the decision of LSC further work on evaluation of availability, use and a coordination of data exchange of non-GTS data should be performed.

Priority: high

Realization: Prague, Budapest

Estimated efforts: 1 PM (short stay in HMS if necessary)

Proposed contributors: DM

Schedule: spring

4. 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 and is now available for test purposes. The main priority should be the maintenance and continuous extension of the system to include new observation types and diagnostics. Medium priority belongs to major renewal of the system (in order to read ODB directly) which should be considered.

- The DM will extend the monitoring system in order to handle newly usable observations in the ALADIN data assimilation system
- The DM will work on the redesign of the monitoring input data flow (direct read of ODB instead of netCDF files) in order to make the monitoring more flexible.

Priority: medium to high

Realization: Prague

Estimated efforts: 1 PM

Proposed contributors: DM

Schedule: continuous work

5. RC LACE for HARMONIE Scripting System Technical Action

Data assimilation suite is rather complex and thus quite demanding for installation and maintenance. To give support to LACE Members the unification of the scripting system was examined in 2008. RC LACE build working group of ALADIN System Coordinator (ASC), Area Leader for data assimilation (AL DA) and DM to prepare proposal for HARMONIE Scripting System Technical Action and also approved to dedicate an effort to HARMONIE script system development (to include needed elements we miss at the moment) to be able to use HARMONIE on the long term (2-3years) as a unified script system for compiling and running the model. So far the DM helped in preparation of the proposal for Technical Action and remaining developments are planned for 2010.

Priority: high to medium

Realization: Prague

Estimated efforts: 1 PM

Proposed contributors: DM

Schedule: continuous work

6. SRNWP Verification Program

In November 2009 LACE Council decided that ALADIN/CE will represent LACE in SRNWP Verification (SRNWP-V) Program. Keeping in mind that this program is already ongoing, rather urgent action is needed in 2010 to fulfill all requirements of the Program. The DM will prepare data set of products for testing period for last year and ensure monthly transfer of recent products to UK Met Office during 2010.

Priority: high

Realization: Prague

Estimated efforts: 1 PM

Proposed contributors: DM

Schedule: continuous work

Summary of the planned RC LACE Data Manager Activity for 2010

ODB related activities	1.00 PM
Observation pre-processing – adding new data	1.00 PM
Exchange of non-GTS SYNOP data	1.00 PM
HARMONIE Technical Action	1.00 PM
Observation monitoring development and maintenance	1.00 PM
SRNWP Verification Program	1.00 PM
Total	6.00 PM