

Report on RC LACE Data Manager Activity

for the period of 1st January– 31st December, 2011
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This report summarizes the work of the RC LACE Data Manger (DM) in 2011. Following chapters describe in more details the areas of DM's main interest:

On demand help in ODB related activities

ODB related support was provided up on request. Regular update of the blacklist files from Météo France was established. Most of the issues were published on RC LACE forum web environment, which allows suitable spread of information and direct interaction of registered users, see www.rclace.eu/forum.

Development and maintenance of observation pre-processing tools

Within the scope of the data assimilation project the DM provided support related to the centralized observation pre-processing for LACE - so called OPLACE. Considerable efforts were dedicated to the porting and validation of the system on the new platform. Also during 2011 the OPLACE system was extended by the data from Infrared Atmospheric Sounding Interferometer (IASI), a key payload element of the Metop series of European meteorological polar satellites.

Exchange of the national (non-GTS) SYNOP data

In order to facilitate technically the implementation of the national SYNOP data exchange the DM checked the availability of the data in Member's states. As part of the data were not provided in a suitable format for direct use in OPLACE, the conversion programs were developed. The quantitative and qualitative analysis of provided sample was done. There are still some minor issues about the data, which needs to be clarified, but there is available quite substantial number of the national SYNOP data with a good quality. And when the technical details of the data transfer are sorted out, the data exchange could begin soon. More detailed report can be provided upon request.

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

The observation monitoring was successfully installed and is used in almost all RC LACE member states. As the latest development the extension of the system for IASI data was done.

RC LACE for HARMONIE Scripting System Technical Action

RC LACE Steering Committee 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 as a unified script system for compiling and running the model. Not much efforts were dedicated to this item, thus not that much progress.

SRNWP Verification program

In November 2009 LACE Council decided that ALADIN/CE will represent LACE in SRNWP Verification (SRNWP-V) Program. The main part of the DM's activity was devoted to the regular preparation of the recent products requested by SRNWP-V Program.

Phasing

The phasing is an important and necessary part of the NWP model maintenance and development. Technical support from the DM side was provided in the preparation of the new ARPEGE/IFS model release.

Following table provides summary of the plan and its realization for 2011.

Summary of the planned and executed RC LACE Data Manager Activity for 2011

	Plans	Realization
ODB related activities	0.5 PM	0.5 PM
Observation pre-processing	1.0 PM	1.5 PM
Exchange of of non-GTS data	1.0 PM	1.5 PM
HARMONIE	1.0 PM	0.0 PM
Observation monitoring D&M	1.0 PM	1.0 PM
SRNWP Verification Program	0.5 PM	0.5 PM
Phasing	1.0 PM	1.0 PM
Total	6.0 PM	6.0 PM