

## **RC LACE Data Manager**

### **Draft of working plan**

For the period of  
1<sup>st</sup> January - 31<sup>st</sup> December, 2011

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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 item is part of data assimilation project which is supposed to be finished this year. The data availability and means for the data provision in member's states were checked and samples are under quantitative evaluation. In order to facilitate technically the implementation of national SYNOP data exchange the DM is supposed to finish development of the conversion programs (to convert data to the suitable format for direct use in OPLACE) and to evaluate options for gathering and distribution of the data within OPLACE.

**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 observation monitoring system has been successfully installed in almost all Member's states. 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.

**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. The DM's efforts will be related to the local technical installation at CHMI and the development of missing elements.

**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. The DM will ensure monthly transfer of recent

products to UK Met Office and investigate the unexplained inconsistency between UK MetOffice and CHMI verification statistics.

**Priority:** high

**Realization:** Prague

**Estimated efforts:** 1 PM

**Proposed contributors:** DM

**Schedule:** continuous work

## 7. Phasing

The phasing is an important operation to "phase" the ALADIN code with the ARPEGE/IFS code. It is necessary part of the NWP model maintenance and development.

**Priority:** high

**Realization:** Toulouse

**Estimated efforts:** 1 PM

**Proposed contributors:** DM

**Schedule:** May 2011

### Summary of the planned RC LACE Data Manager Activity for 2011

ODB related activities	0.50-1.00 PM
Observation pre-processing	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	0.50-1.00 PM
Phasing	0.75-1.00 PM
<b>Total</b>	<b>5.75-7.00 PM</b>