

Data Manager Activity

Work Plan

Prepared by:	RC LACE Data Manager Alena Trojáková
Period:	2014
Date:	24/2/2014

Introduction and background

Considering terms of references of RC LACE Data Manager (DM) there are several areas of interest. Activities related to the organization of observational databases, installation and maintenance of data assimilation suites of LACE Members. The DM is responsible for common planning and technical work with data covered by the data assimilation actions. The DM is involved in the maintenance and development of the common Observation Pre-processing system for LACE (OPLACE) and ensures technical background of the observational data exchange. The DM is also responsible for verification issues within the RC LACE Programme.

Goal

Meteorological observations are key aspect of data assimilation and verification. Observation database (ODB) handing and data assimilation suite is rather complex and demanding for installation and maintenance. The main objective is to provide observation database (ODB) related support, to help solving problems and further spread information inside the community. The OPLACE was built to provide observations in an appropriate format for data assimilation to the Members. The OPLACE maintenance and further development is the core DM's activity and is essential to provide stable and reliable framework for the operational data assimilation.

Main activities

This is tentative plan of the DM activities for 2014. 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:

Action: ODB support

Description and objectives: The main objective is to provide ODB related support. This comprises help in the configuration and usage of ODB and related applications at Members' site. The DM also updates and maintains RC LACE Forum regarding observation usage in ALADIN data assimilation system.

Proposed contributors & Estimated efforts: DM, 1 PM

Planned timeframe and deliverable: continuous work

Action: OPLACE

Description and objectives: The OPLACE provides observation in an appropriate format for data assimilation to Members. Regular maintenance is required in order to ensure

stable and reliable bases for the operational purposes and further extension by the new data is essential for a general progress in area of data assimilation.

The observation monitoring is an important component of any data assimilation systems. The interactive web-based monitoring for ALADIN variational systems (3D-VAR, 3D-FGAT) has been successfully installed in almost all Members. The maintenance and continuous extension of the monitoring is inevitable as well.

Proposed contributors & Estimated efforts: DM, 3 PM

Planned timeframe and deliverable: continuous local work and a short stay at HMS; the OPLACE and the observation monitoring maintenance and development; implementation of new data;

Action: Data exchange

Description and objectives: A substantial number of local surface observations is available in LACE countries. The agreement for the exchange of surface data within RC LACE was signed by the end of 2013. The implementation of the exchange is in progress.

Proposed contributors & Estimated efforts: DM, 1 PM

Planned timeframe and deliverable: data exchange implementation

Action: HARMONIE

Description and objectives: 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, but has not spread much within RC LACE. HARMONIE verification package and Namelist maker were proposed to revitalize this subject.

Proposed contributors & Estimated efforts: DM, 1 PM

Planned timeframe and deliverable: observation interface to OPLACE for HARMONIE verification package; inter-comparison with respect to local verification package VERAL

Summary of resources

Here follows a summary of the planned RC LACE Data Manager activity for 2014.

Subject	Manpower	LACE stays
ODB support	1.0 PM	
OPLACE	3.0 PM	0.5 PM
Data exchange	1.0 PM	
HARMONIE	1.0 PM	
Total:	6.0 PM	0.5 PM

Meetings and events

- 1) 24th ALADIN Workshop and & HIRLAM All Staff Meeting 2014, 7-11 April, 2014, Bucharest, Romania.
- 2) 36th EWGLAM & 21st SRNWP joined meetings, 29-2 October, 2014, Offenbach, Germany.
- 3) OPLACE maintenance, two weeks stay - dates to be defined, Budapest, Hungary.

Risk and constrain

The non-LACE countries showed an interest to access OPLACE and the official procedure for accessing is required. On the top of the data policy issues it should kept in mind that non-LACE countries may have different geographical location and the OPLACE may need further extensions and an appropriate compensation for LACE should be considered.