

Data Manager Activity

Work Plan

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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 the 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 2015. 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 will also contribute to the Continuous Observation Processing Environment (COPE) project.

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 are available in LACE countries. The exchange of surface data within RC LACE progressed well in 2014 and an operational implementation in Members is expected in 2015. Regular maintenance and a yearly overview of the exchanged data will be provided.

Proposed contributors & Estimated efforts: DM, 1 PM

Planned timeframe and deliverable: data exchange overview and maintenance

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: report

Summary of resources

Here follows a summary of the planned RC LACE Data Manager activity for 2015.

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, 13-17/04/2015, Copenhagen, Denmark.
- 2) 37th EWGLAM meeting and 22nd SRNWP workshop 2015, Sept.-Oct. 2015, Serbia
- 3) OPLACE maintenance, two weeks stay - dates to be defined, Budapest, Hungary.

Risk and constrain

Recent issues with the OPLACE data provision showed deficiencies in the system and work on improving reliability of the OPLACE will have the highest priority in 2015.

The RC LACE Council agreed to provide the access to Turkey by the end of 2014. Necessary data policy restriction to OPLACE (all additional data will be moved to the OPLACE national) have to applied as soon as possible.

The RC LACE proposal for the COPE collaboration should to be considered and a corresponding human resources (some programming experience with C++ and/or Python would be an advantage) and budget line for coordination meetings and/or short working stays have to be allocated.