

Data Manager Activity

Work Plan

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Period:	2013
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1 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 and operative deliverables. 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.

2 Goal

Meteorological observation is key aspect of data assimilation and verification. Observation database (ODB) handling and data assimilation suite is rather complex and demanding for installation and maintenance. The main objective is to provide observation database (ODB) related support, help to solve emerging problems and further spread information inside the community. The OPLACE has been build with aim of providing available observation in an appropriate format for data assimilation to LACE Members. Its maintenance and further development is essential in order to provide stable and reliable framework for operational data assimilation.

3 Main activities

This is tentative plan of the DM activities for this 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:

Action/Subject: ODB support

Description and objectives: The main objective is to provide observation database (ODB) related support in case of requirement from local staff. This includes help in the configuration and usage of ODB and related applications at RC LACE 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/Subject: OPLACE

Description and objectives: The common Observation Pre-processing system for LACE (OPLACE) has been build with aim of providing available observation in an appropriate format for data assimilation to LACE Members. Regular maintenance is required in order to provide stable and reliable bases for an operational purposes and further extension by the new data is essential for general progress in area of data assimilation.

An observation monitoring system of any data assimilation systems is essential. An interactive web-based monitoring for ALADIN variational systems (3D-VAR, 3D-FGAT) has been successfully installed in almost all Member's states. The main objective should be the maintenance and continuous extension of the system to include new observation types and diagnostics.

Proposed contributors & Estimated efforts: DM, 3 PM

Planned timeframe and deliverable: continuous local work and a short stay at HMS during second half of 2012; OPLACE maintenance and development, extension of the observation monitoring for radar data;

Action/Subject: Data exchange

Description and objectives: A substantial number of local surface observation is available in LACE countries. The technical means for the data exchange were tested, but there still remains a challenge to find an official agreement in order to progress with the local surface data exchange.

Proposed contributors & Estimated efforts: DM, 1 PM

Planned timeframe and deliverable: continuous work

Action/Subject: 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. There has not been a considerable progress during recent years and a new impulse and/or reassessment is needed for further progress.

Proposed contributors & Estimated efforts: DM, 1 PM

Planned timeframe and deliverable: coordination with AL for DA and proposal for an action

4 Summary of resources

Here follows a summary of the planned RC LACE Data Manager activity for 2013.

Subject	Manpower	LACE stays
ODB support	1.0 PM	
OPLACE	3.0 PM	0.25 PM
Data exchange	1.0 PM	
HARMONIE	1.0 PM	
Total:	6.0 PM	0.25 PM

5 Meetings and events

- 1) 23st ALADIN Workshop and & HIRLAM All Staff Meeting 2013, 15-19 April, 2013, Reykjavik, Iceland.
- 2) 35th EWGLAM & 20th SRNWP joined meetings, 30 September - 3 October, 2013, Antalya, Turkey.
- 3) OPLACE maintenance stay, one week - dates to be defined, Budapest, Hungary

6 Risk and constrain

There is a pending issue with local surface data exchange. The technical means are ready and there remains a challenge to find an official agreement in order to progress with the local surface data exchange. Close collaboration with RC LACE Program Manager is essential for further progress.