

**ALADIN-LACE System Coordinator (ASC)**

# **Report 2019**

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<b>Period:</b>	01/01/2019 – 01/09/2019
<b>Date:</b>	06/09/2019

## 1. Introduction and background

The activities of ALADIN-LACE System Coordinator (ASC) are listed in the Term of References of RC LACE Management Group and acts under the responsibility of Programme Manager.

## 2. Main technical activities

### **Action/Subject: Phasing of common ALADIN cy47 cycle**

**Description and objectives:** The main objective was to create/validate new cycle of ALADIN code cy47 based on IFS code ECMWF and local contributions. The action was organized by CNRM/Météo-France in period January – March 2019.

The whole ASC phasing action was divided to 4 weeks stay at CNRM/Météo-France and additional remote phasing in period 4 weeks.

**Efforts: ASC, 2.0 PM**

**Contributors:** ASC

**Documentation:** RC LACE Forum - Report\_Phasing-cy47\_ASC\_part-I.pdf, Report\_Phasing-cy47\_ASC\_part-II.pdf

**Status:** Finally the cycle CY47\_main.v01 is available in MF GIT repository (see RCLACE Forum). File memorandum\_CY47.pdf – 19 Aug 2019.

### **Action/Subject: Phasing of common ALADIN cy47t1 cycle**

**Description and objectives:** The main objective is to create/validate new cycle of ALADIN code cy47t1. The action will be organized by CNRM/Météo-France in autumn/winter 2019. The whole ASC phasing action has been divided to 4 weeks stay at CNRM/Météo-France (November and December 2019) and additional local phasing in period 4 weeks.

**Proposed contributors & Estimated efforts: ASC, 2.0 PM**

**Planned timeframe and deliverable: autumn/winter 2019**

### **Action/Subject/Deliverable: Technical preparation and validation of the export version cycle cy43t2\_bf10 and support during implementation on others platforms/compilers.**

**Description and objectives:** The main objective was preparation and validation of the model part for export version cy43t2\_bf10.

**Efforts:** 0.5 PM

**Contributors:** ASC

**Documentation:** RC LACE Forum

**Status:** The cy43t2\_bf10 has been released as common export version at the end of Feb 2019.

### **Action/Subject/Deliverable: Single precision code.**

**Description and objectives:** The main objective is to study single precision code in IFS code and implementation of the single precision to ALARO physics.

**Efforts:** 1.0 PM

**Contributors:** ASC

**Documentation:** RC LACE Forum

**Status:** There is planned action Short-term secondment to ECMWF, stay at ECMWF 13th – 26th Oct 2019

**Action/Subject/Deliverable:** **HARMONIE Verification package – operational web site**

**Description and objectives:** The main aim of this action was production common verification scores from LACE operational model outputs.

**Efforts:** 0.25 PM

**Contributors:** ASC

**Documentation:** see RCLACE Forum - HARMONIE Verification pack

**Status:** The HARMONIE Verification package has been locally installed at LACE community and verification scores are operational produced on the RCLACE web site from March 2014.

**Action/Subject/Deliverable:** **Administration and Maintenance of the RC LACE Web site and RC LACE Forum**

**Description and objectives:** Maintenance of the operational products, system support and administration of the RC LACE Forum. The local VisualWeather server has been change at SHMU. It requested some maintenance effort regarding to output products.

**Efforts:** 0.25 PM

**Contributors:** ASC

**Documentation:** [www.rclace.eu](http://www.rclace.eu)

**Status:** ongoing

### 3. List of actions, deliverables including status

**Subject:** phasing ALADIN code

**Deliverables:** GIT database at CNRM/Meteo-France; on request

**Status:** ongoing, 2019

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**Subject:** Technical preparation and validation of the export version cycle cy43t2\_bf10

**Deliverables:** RC LACE Forum

**Status:** done, 2019

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**Subject:** HARMONIE Scripting system – Verification package and RC LACE web site

**Deliverables:** [www.rclace.eu](http://www.rclace.eu); [www.rclace.eu/Forum](http://www.rclace.eu/Forum)

**Status:** ongoing

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#### 4. Documents and publications

Oldřich Španiel, 2019:

<http://www.rlace.eu/forum/viewforum.php?f=105> - phasing cy47

<http://www.rlace.eu/forum/viewforum.php?f=95> – cy43t2\_bf09 export version

#### 5. Activities of management, coordination and communication

- 1) 29th ALADIN Workshop and & HIRLAM All Staff Meeting 2018 – 1-4 April 2019, Madrid
- 2) 32 LSC Meeting
- 3) Phasing stay – cy47, Météo-France

#### 6. Summary of resources/means

Subject/Action/deliverable	Resource		LACE		ALADIN	
	Planned	realized	planned	realized	planned	Realized
ALADIN Phasing	4.0 PM	2.0 PM	2.0 PM	1.0 PM		
ALADIN cy43t2 export ver.	0.5 PM	0.5 PM				
Single precision code	1.0 PM	0.5 PM	0.5 PM			
HARMONIE verification tool & RC LACE web site	0.5 PM	0.5 PM				
<b>Total:</b>	<b>6.0 PM</b>	<b>3.5 PM</b>				