

*Regional Cooperation for  
Limited Area Modeling in Central Europe*



## LACE news

Yong Wang



# LACE management

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**Programme Manager:** Yong Wang

( **Administration and Finance:** Andrea Sigl )

– **Area Leaders:**

Dynamics & Coupling: Petra Smolikova

Physics: Neva Pristov

**Data Assimilation:**

Predictability: Theresa Gorgas

– **Data Manager:** Alena Trojakova

– **System Coordinator:** Oldrich Spaniel

LACE new MoU 2013---2016

# Work to be done

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- enhancing LACE visibility and cooperation
- increasing LACE manpower on R&D
- opening LACE funding to PhD and post PhD
- designing LACE future model systems
- introducing LACE verification
- preparing LACE climate modelling
- improving LACE management and budget



# LACE visibility

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LACE is a **Central European NWP consortium.**

- ▶ We are LACE, but who knows?
- ▶ Fully accepted by the others?



# R&D manpower

	SK	HU	AU	RU	SLO	CZ	CRO	total
DA	0.9	0.7	2.15	0.5	0.7	1	0.9	6.85
D&C	0.4				0.15	0.75		1.3
PHY	0.3	1.5	0.35	0.4	0.5	2.25	0.1	5.4
EPS	0.3	0.6	1.5	0.4				2.8
total	1.9	2.8	4	1.3	1.35	4	1	16.35



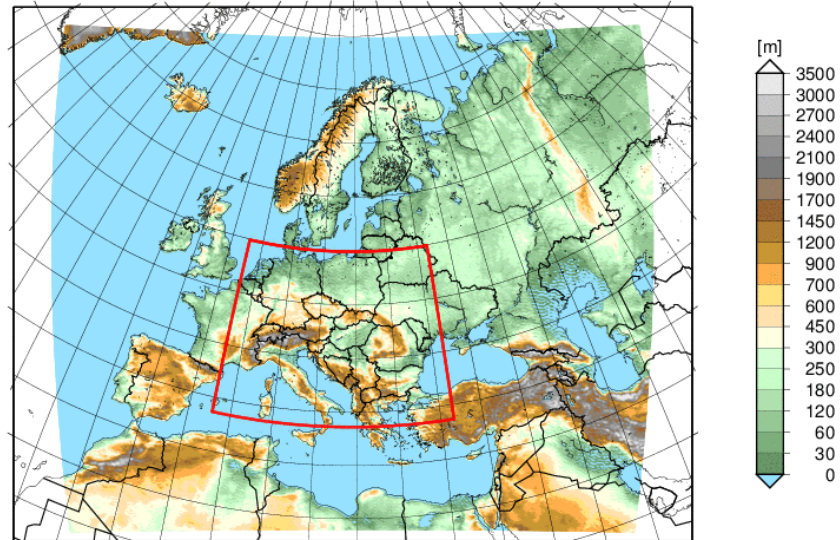
# Model systems

- ▶ Model: ALARO, AROME

LACE members run ALARO with slightly different horizontal resolution (~5km) over same LACE domain on their own HPC. In addition, HU and AT run AROME (~2.5km) over the national territory and surrounding

- ▶ EPS: ALADIN-LAEF, HMS-EPS

ALADIN-LAEF (~11km, 16m) runs over whole Europe + Atlantic at ECMWF; HMS-EPS (~8km, 10m) runs over LACE at HMS.



# Possible development

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- ▶ No deterministic LACE run (~3-4km)?
- ▶ Common LACE operation: ensemble for LACE (~5km)
- ▶ Common LACE operation: OPLACE for DA
- ▶ Very high resolution AROME/ALARO (~1-2km) over the national territory and surrounding.

HPC options: centralised / de-centralised / rotated

In next 4-5 years?



# Verification

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- ▶ **Purpose:** To learn the evolution of ALADIN forecast quality in the last years.

Each LACE member service provides their own verification on their NWP forecast once per year.





# ALADIN climate

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- ▶ Promoting the ALADIN climate modelling in LACE
  - To set up ALADIN climate network
  - To search funding possibilities for all LACE ALADIN teams



# We are LACE.

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Hope for a successful cooperation  
with all of you in the future.

