



1. Operational mode: 4 times per day, configurations COSMO-Ru model COSMO:

- ❑ Grid spacing: 13, 7, 2.2 (3 domains), 1.1 km (SGI ICE-X)
- ❑ COSMO-Ru7ARTcfo (Central Federation District, grid spacing 7 km; SGI ICE-X)
- ❑ Grid spacing: 6.6, 2.2 km, Cray XC40-LC)

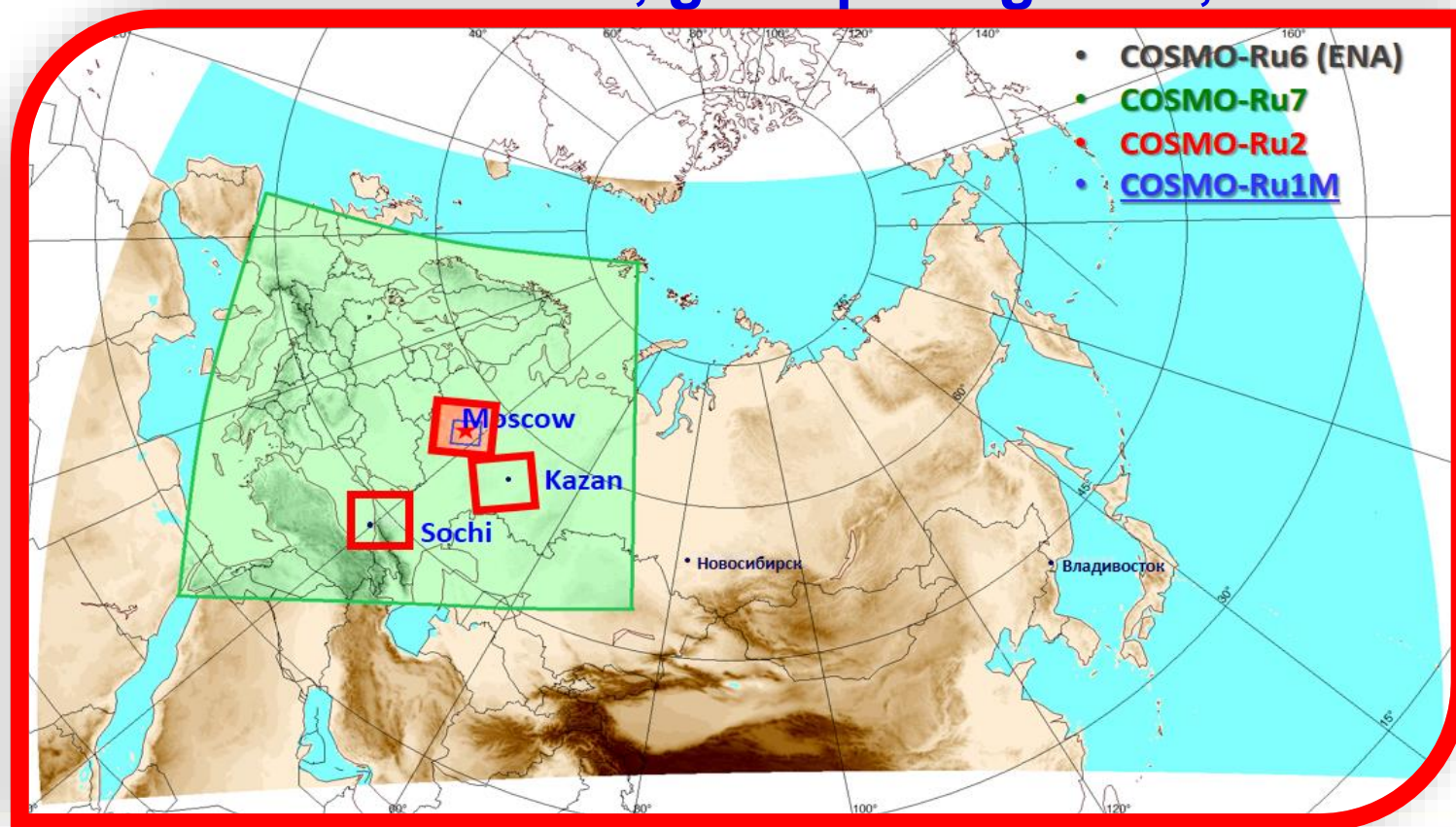
2. Quasi-operational mode:

COSMO-Ru1M

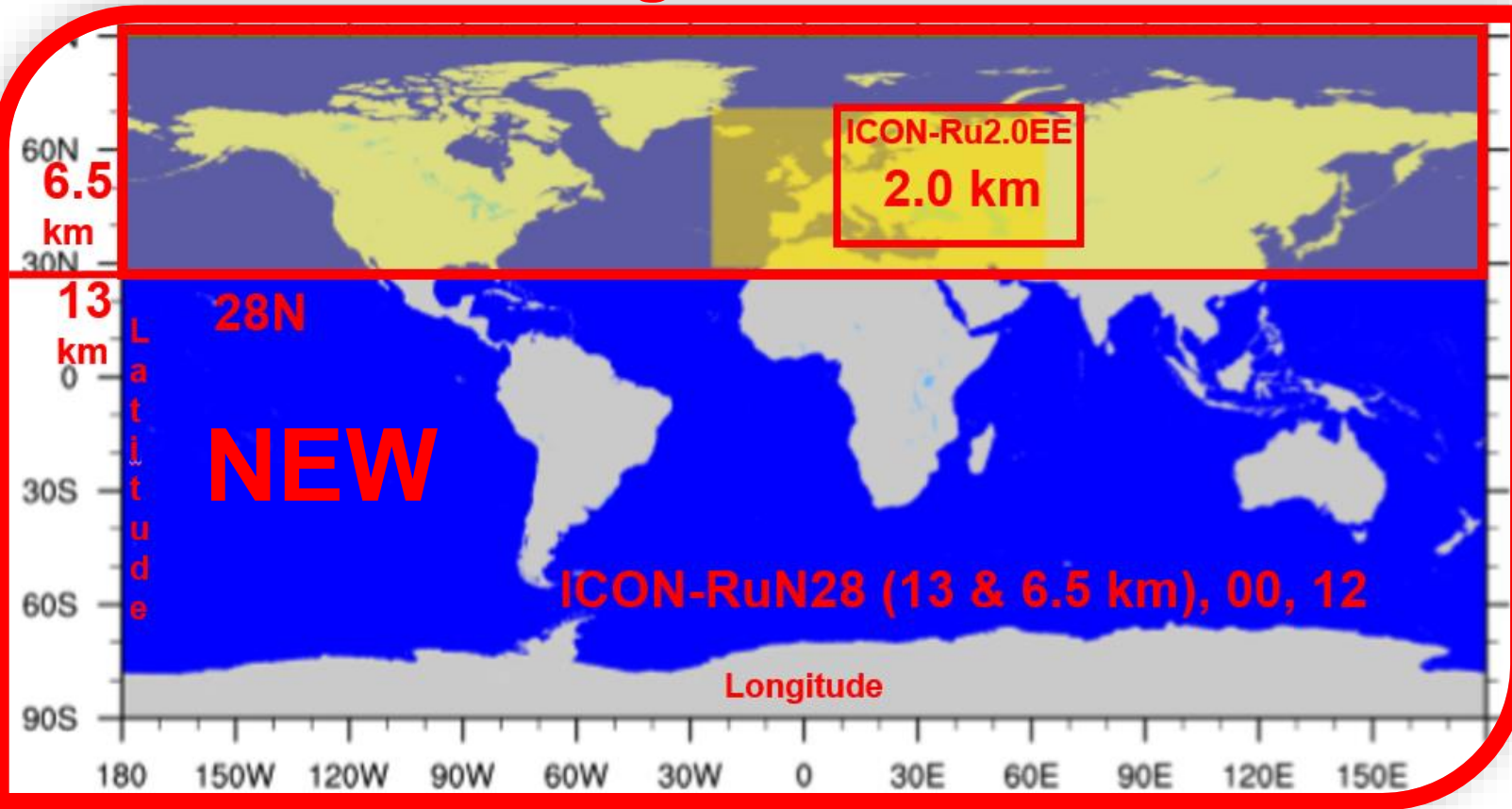
(urban, Moscow,

grid spacing: 1.0 km;

Cray XC40-LC)



Quasi-operational mode, 2 times per day, 120h configurations **ICON-Ru** model **ICON**



- ❑ **ICON-RuN28** - **global** (>28° N – grid spacing **6.5 km**, rest - 13 km; Cray XC-40-LC)
- ❑ **ICON-Ru2EE** - **LAM** (Eastern Europe, grid spacing **2.0 km**; Cray XC-40-LC)
- ❑ **ICON-Ru?Arctic** - **LAM** (plan)

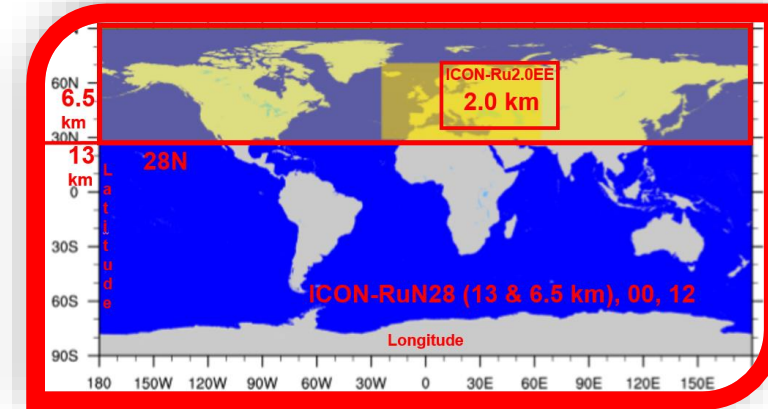
Paralization (MPI, OpenMP, cores, output), domains

Run time **GLOBAL ICON-RuN28** with 13 km & (6.5 km for latitude $\geq 28^{\circ}\text{N}$)

| | |
|---|-----------------|
| <u>Cores: 2880 - 32 (output) 1751 c / 048 h</u> | 60 min / 96 h |
| Cores: 5760 - 32 (output) 1012 c / 048 h | → 34 min / 96 h |
| Cores: 8640 - 32 (output) 0794 c / 048 h | → 27 min / 96 h |

Run time **GLOBAL ICON (13 km):**

Cores: 2880 + 32 (output) 2h 50 min / 31 days



Run time **ICON-Ru2EE (LAM for Eastern Europe, 2.0 km)**

| | |
|--|------------------|
| Cores: 2880 - 4 (output) 3189 c / 048 h | 53 min / 048 h |
| <u>Cores: 2880 - 4 (output)</u> | → 60 min / 054 h |
| Cores: 2880 - 4 (output) 4598 c / 072 h | 74 min / 072 h |
| Cores: 2880 - 4 (output) 7575 c / 120 h | 126 min / 120 h |
| Cores: 5760 - 32 (output) 3916 c / 120 h | 65 min / 120 h |

