Deutscher Wetterdienst
Wetter und Klima aus einer Hand

Numerical Weather Prediction at DWD in 2013

Global model GME

Grid spacing: 20 km

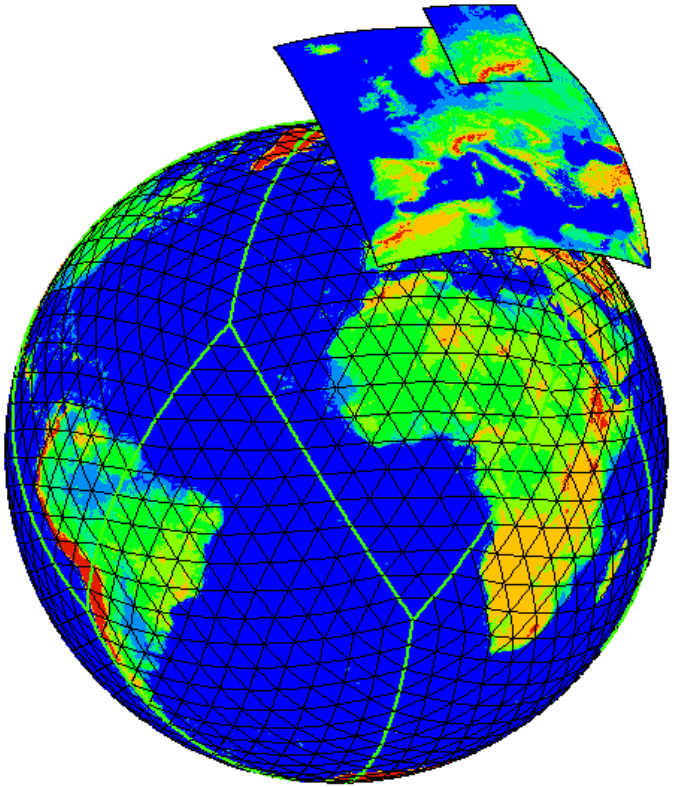
Layers: 60

Forecast range:

174 h at 00 and 12 UTC

48 h at 06 and 18 UTC

1 grid element: 346 km^2



COSMO-EU

Grid spacing: 7 km

Layers: 40

Forecast range:

78 h at 00 and 12 UTC

48 h at 06 and 18 UTC

1 grid element: 49 km^2

COSMO-DE (-EPS)

Grid spacing: 2.8 km

Layers: 50

Forecast range:

21 h at 00, 03, 06, 09,

12, 15, 18, 21 UTC

1 grid element: 8 km^2

Deutscher Wetterdienst
Wetter und Klima aus einer Hand

Numerical Weather Prediction at DWD in 2015

Global model ICON

Grid spacing: 13 km

Layers: 90

Forecast range:

174 h at 00 and 12 UTC

78 h at 06 and 18 UTC

1 grid element: 173 km^2

ICON zooming area Europe

Grid spacing: 6.5 km

Layers: ~ 60

Forecast range:

78 h at 00, 06, 12 and 18 UTC

1 grid element: 43 km^2

plus three other zooming areas

COSMO-DE (-EPS)

Grid spacing: 2.2 km

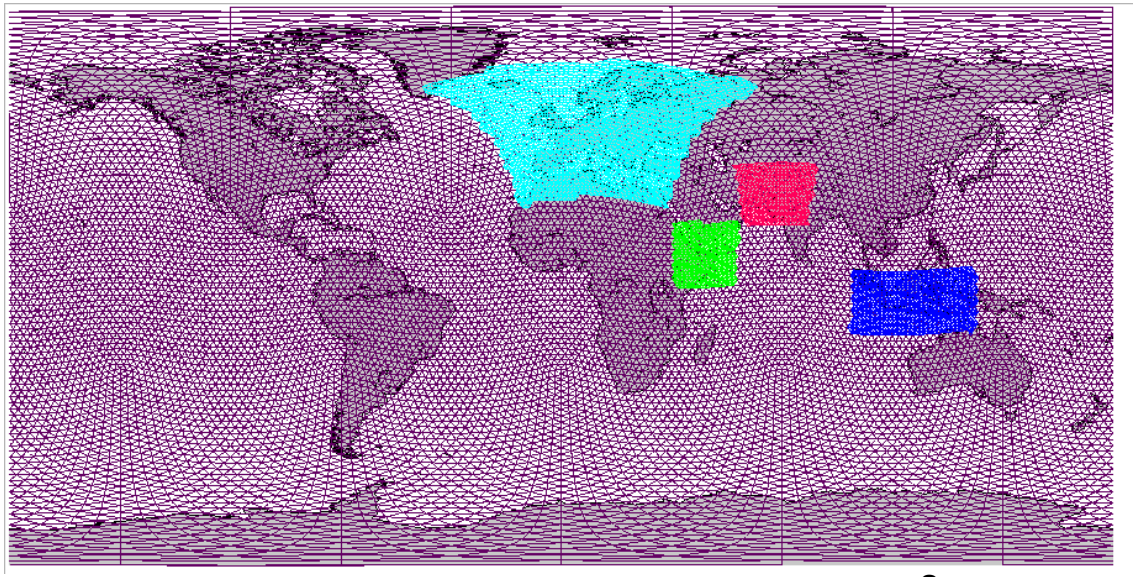
Layers: ~ 80

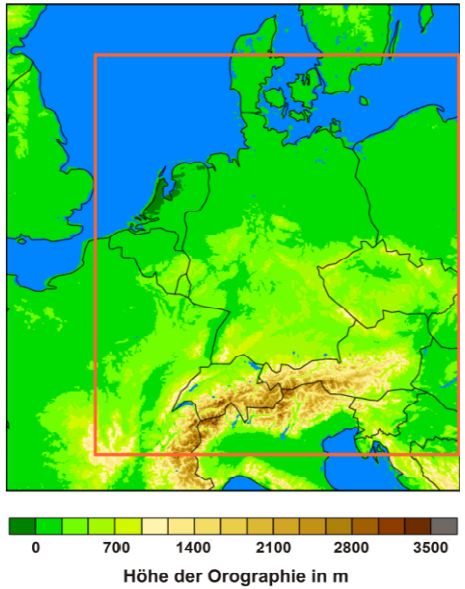
Forecast range:

24 h at 00, 03, 06, 09,

12, 15, 18, 21 UTC

1 grid element: 5 km^2





Numerical Weather Prediction at DWD in 2020

Can we base

- deterministic modelling,
- ensemble data assimilation and forecasting,
- global, regional, local domains,
- NWP, CLM, ART applications

on the ICON software framework?

We will try! And we invite you to contribute to the R&D!