Data assimilation status in Romania

Mirela Pietrisi (presented by Simona Tascu)

National Meteorological Administration, Romania

Status (1)

- Ongoing work to migrate to the new platform (IBM/BLADE Linux cluster – Sandy Bridge architecture): gcc-4.8.2 & intel 2015 compilers - with Oldrich Spaniel`s help

gcc-4.8.2 compiler:

- ❖ **cy38t1 :** both ALARO0 and ALARO1
  - differences in the spectral norms
  - different results when the same integration is repeated
  - ALARO1 crashes in fullpos on more than 16 processors

- ❖ **cy40t1_bf05**: ok

Status (2)

Intel compiler

- DA cycle (with cy38t1) – **intel 2013** trial version

    - compiled with Mate's help
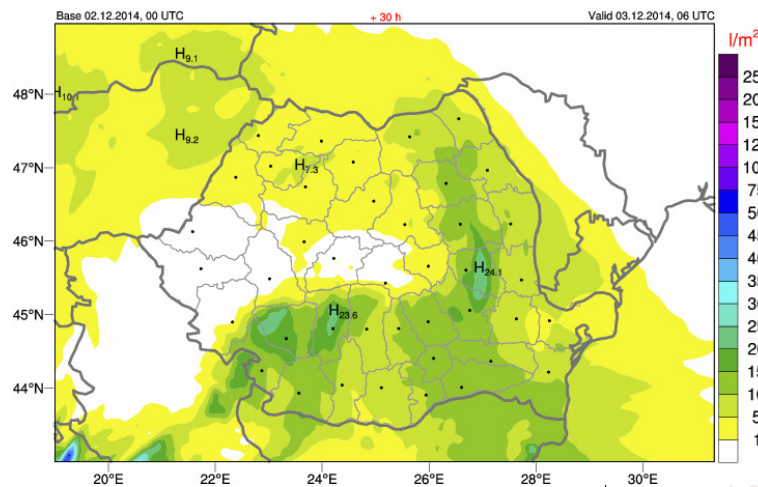
    - problems running on more than one node

Intel 2015 – new compiler

  ❖ **cy38t1**: problems running on more than one node (12 processors) and differences in spectral norms
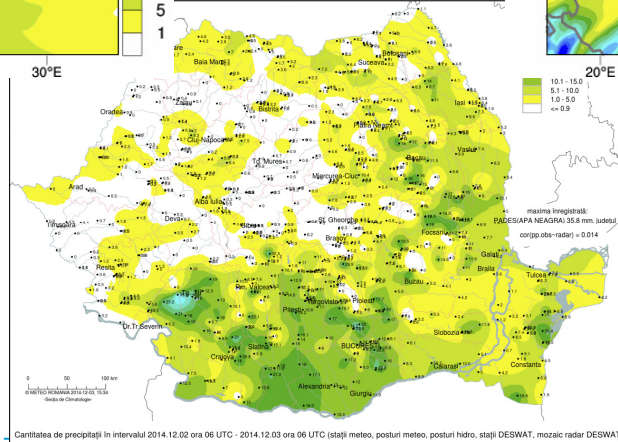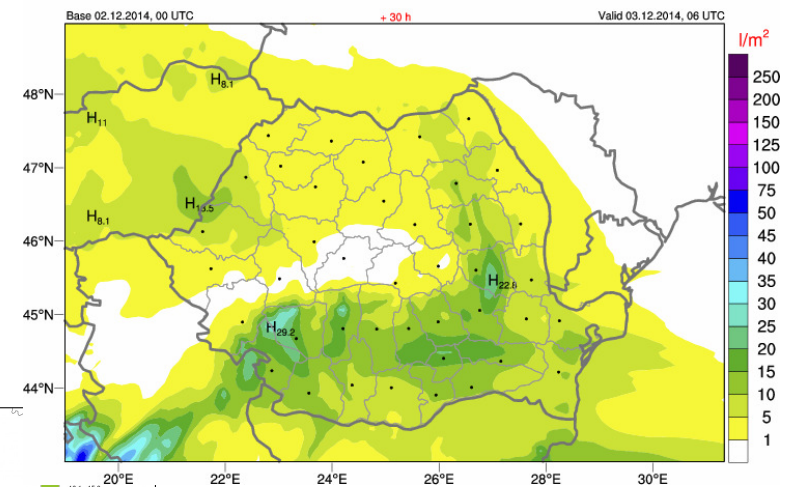
  ❖ **cy40t1**: ???

12 December 2014 :

Assim settings : 6h assim cycle, Canari + 3DVAR ; data from OPLACE (conventional + satellite); Domain : 6.5Km, L49

Future plans

> computation of B matrix on the current operational domain (L60)

Operational:

> DA – using cy38t1 compiled with intel

> model integration – using cy40t1 with gcc

Thank you for your attention!