Consortias Progress
in the
Interoperability Programme

Aladin activities for I-SRNWP

Aladin status on interoperability:

- Output mode adapters (from Arpège, Aladin models to GRIB2): prototype throughput under the OLIVE system at MF

- Input mode adapters: need to change strategy for this development => abandon « 901 » configuration and rather extend the possibilities of our Full-POS/e927 configurations

- Tests are conclusive for Hirlam2Aladin (see next slide)

- However, quite some more work ahead !: handle other consortia's grids as input and transpose surface field solution (SWI)

- Documentation: upgraded this summer

Wind at lvl. 30 in GRIB file

Wind at lvl. 30 in FA file

(a)

(b)

Sea surface Temperature in GRIB file

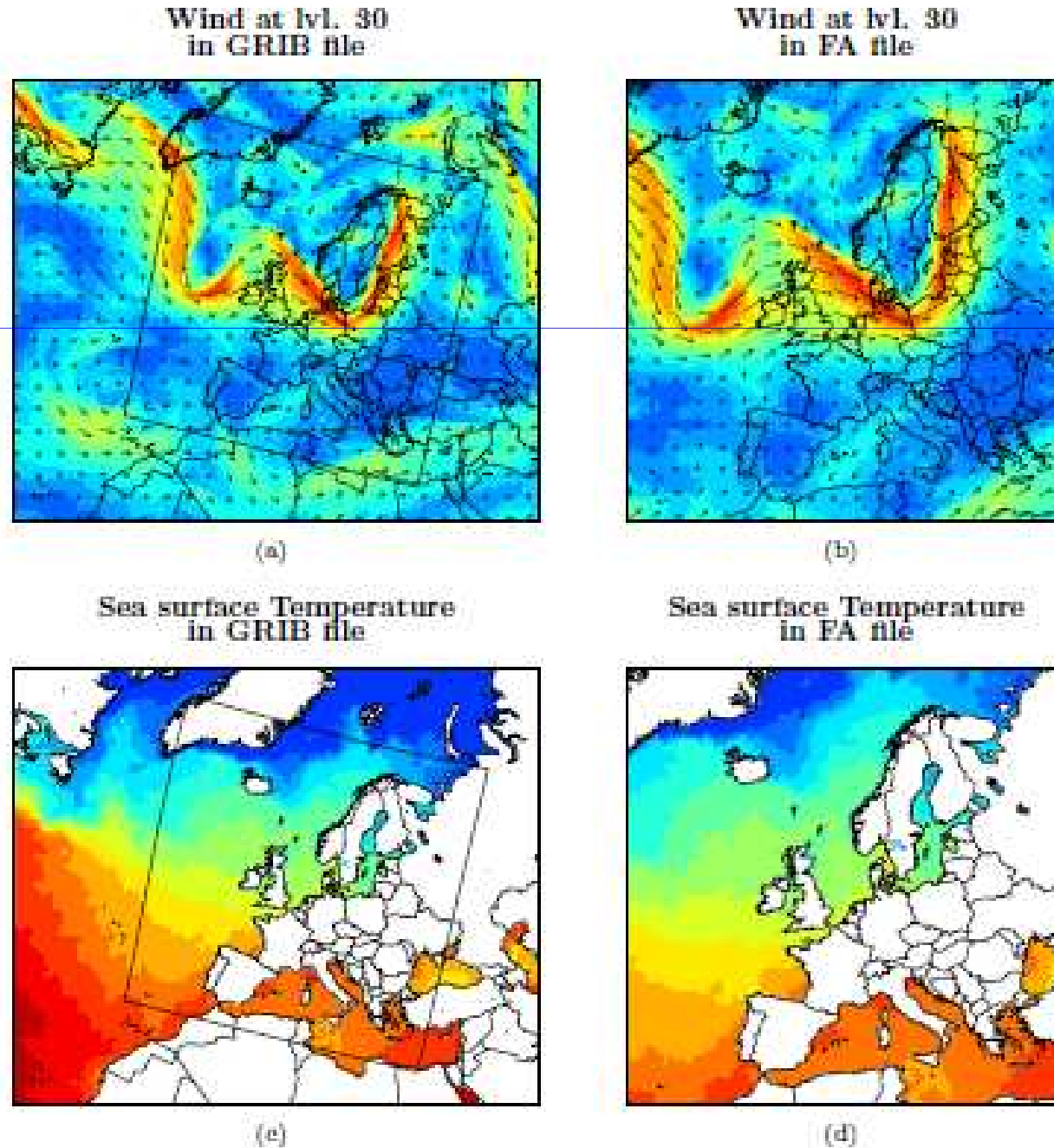Sea surface Temperature in FA file

(c)

(d)

Figure 2: Interpolation from rotated latlon grid to Lambert grid.

13.10.2011

COSMO Activities

Work in 2011

➔ Implementation of grib_api into adaptor program INT2LM (only for reading at the moment; implementation for writing and implementation into the COSMO-Model is ongoing)

➔ Extension of INT2LM to read GRIB2 data from other models:

   ➔ UKMO

   ➔ HIRLAM

➔ There are some issues with the GRIB2 coding of special parameters, which must be discussed with the Interoperability partners in the near future

➔ The minimum required documentation is not yet ready (describe native grids and list of parameters)
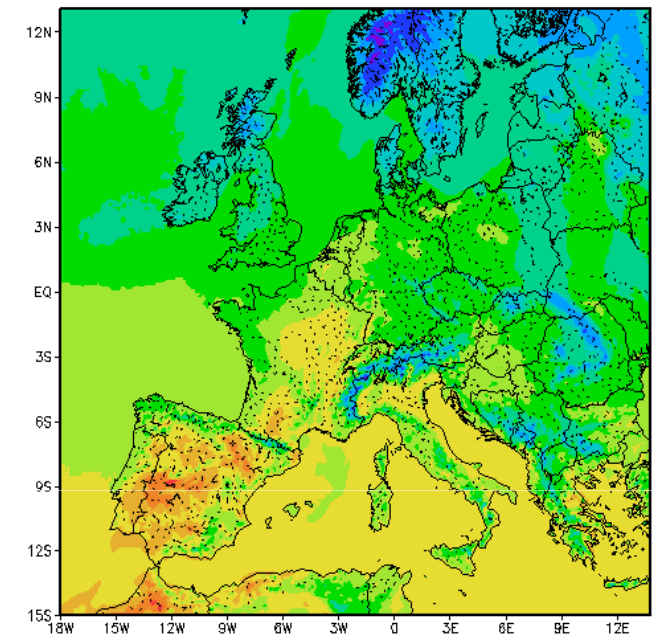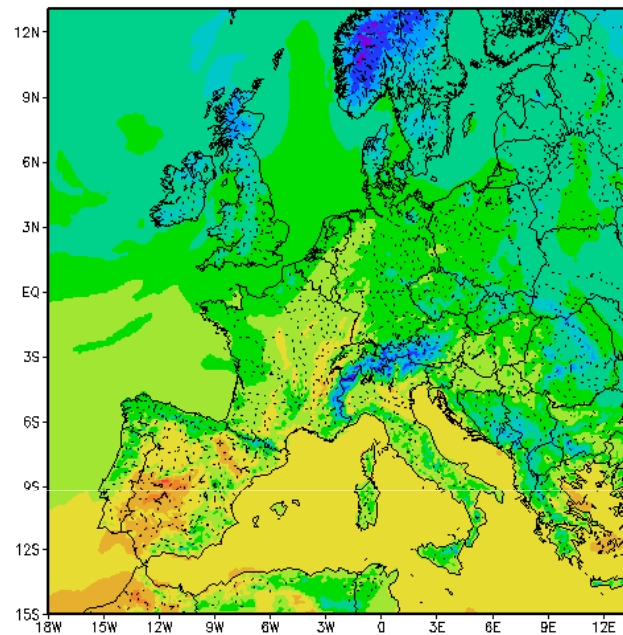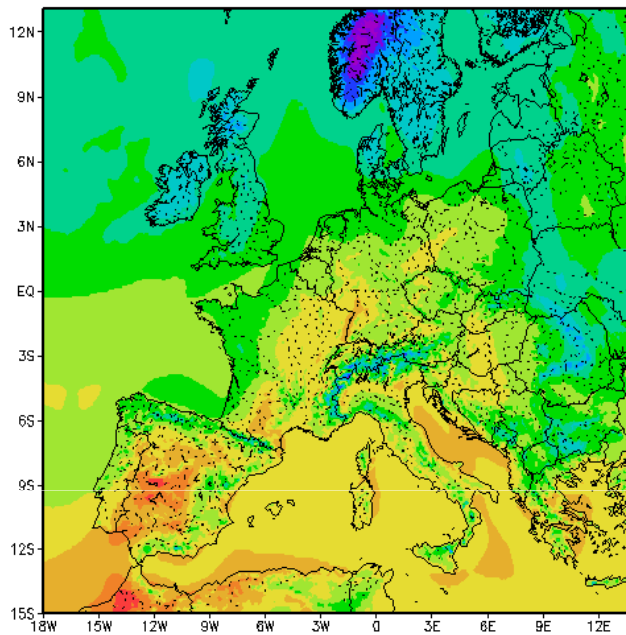
Working on the Adaptors
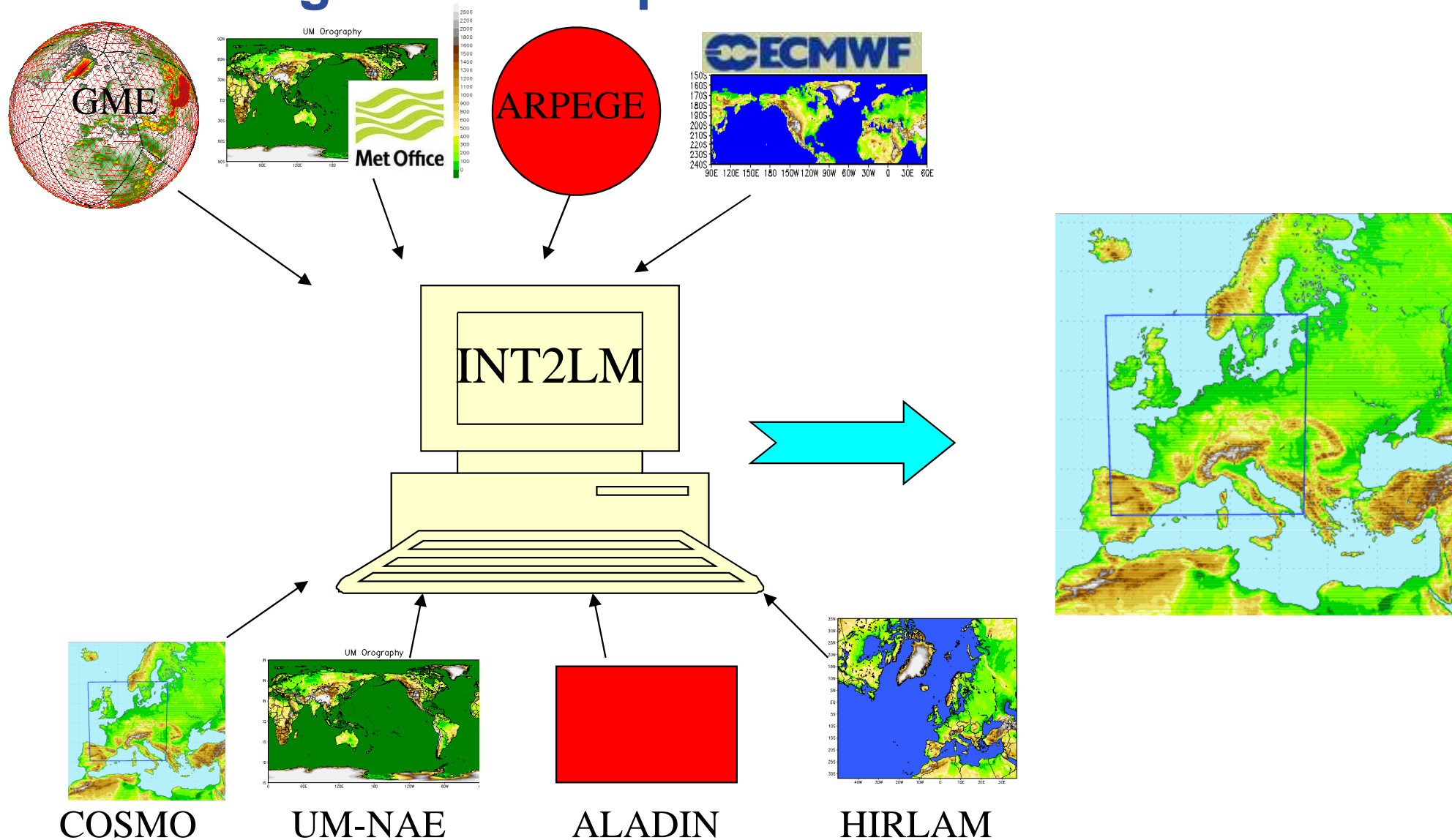
GME

ARPEGE

INT2LM

COSMO   UM-NAE   ALADIN   HIRLAM

Temperature on lowest COSMO model level interpolated from

GME

IFS
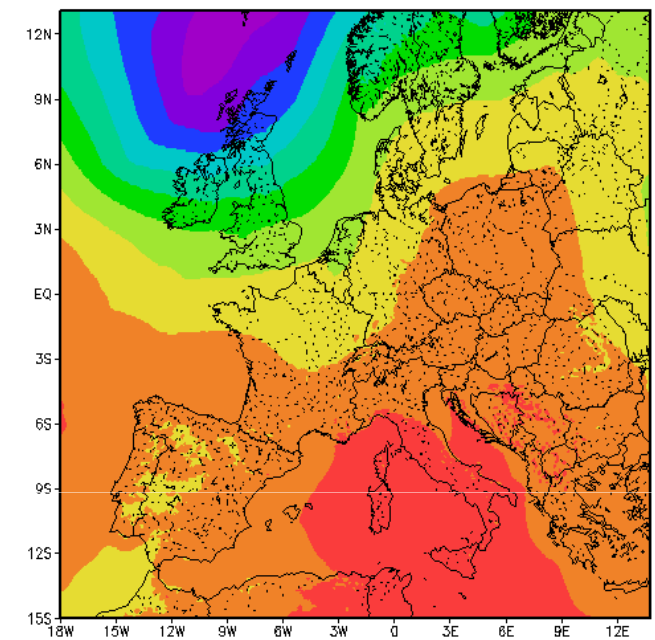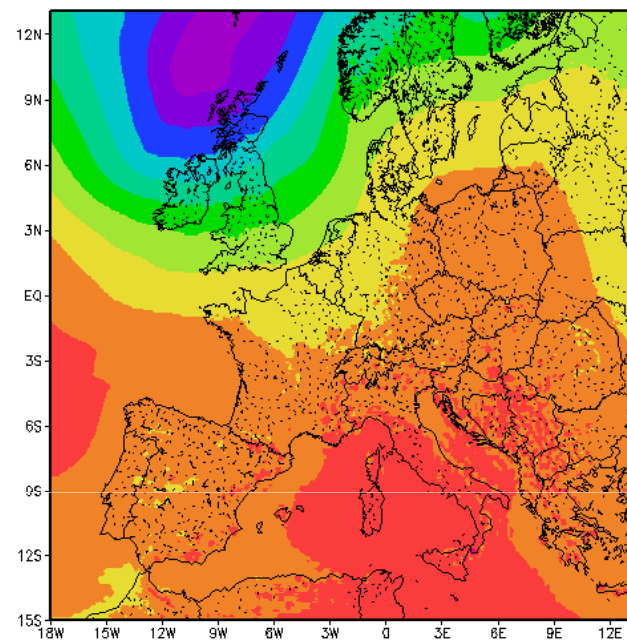
HIRLAM
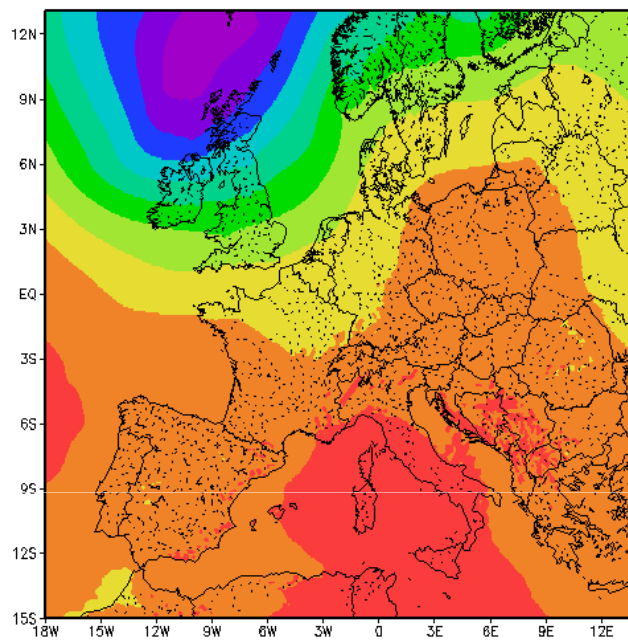

Date: 8th May 2009, 00 UTC

Pressure deviation from reference pressure on lowest COSMO model level interpolated from

GME   IFS   HIRLAM
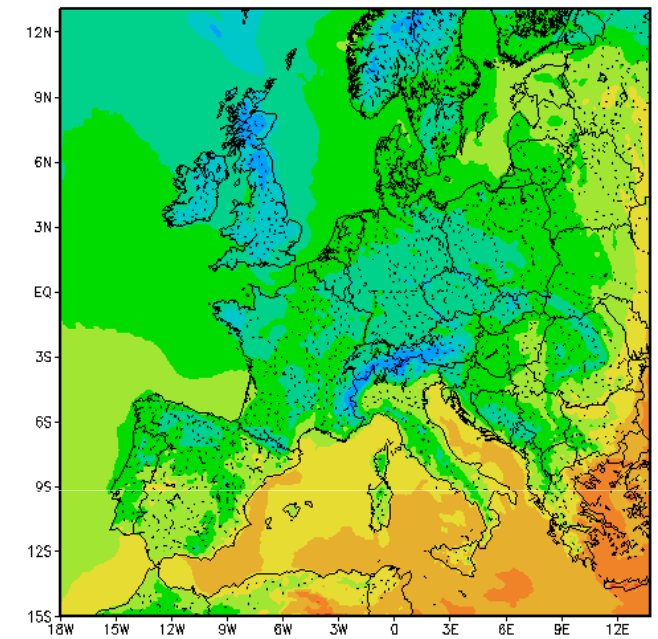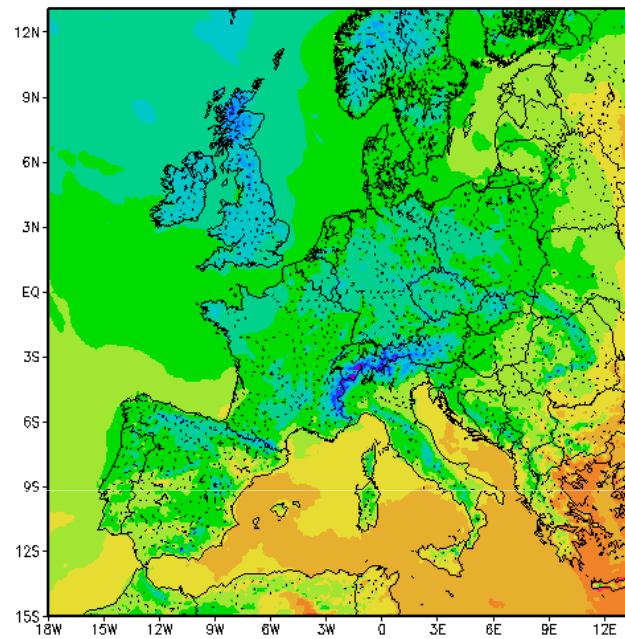

Date: 8th May 2009, 00 UTC

Temperature on lowest COSMO model level interpolated from

GME   IFS   UM-NAE

Date: 18th August 2010, 00 UTC

Pressure deviation from reference pressure on lowest COSMO model level interpolated from

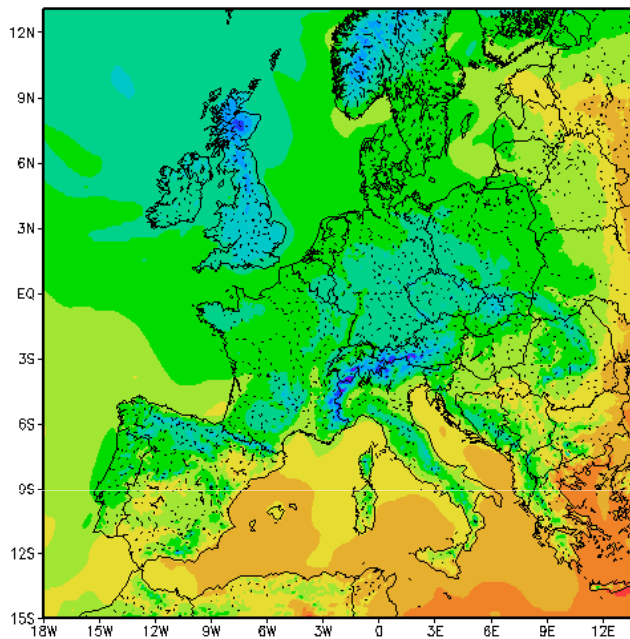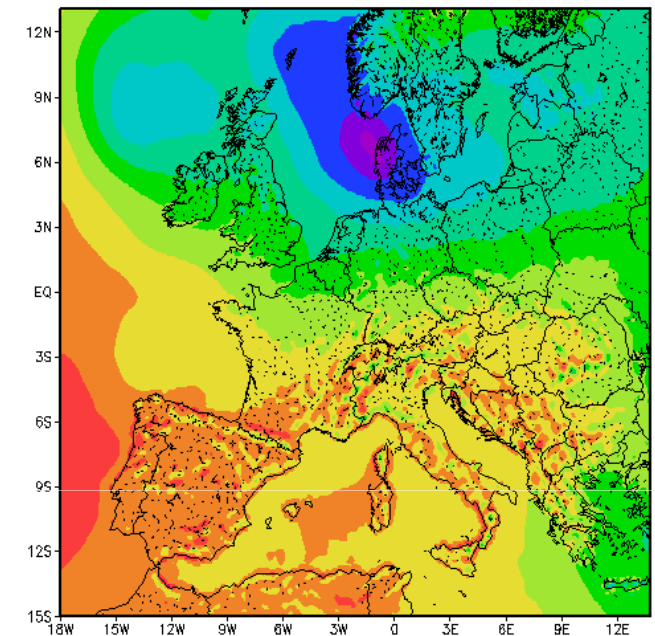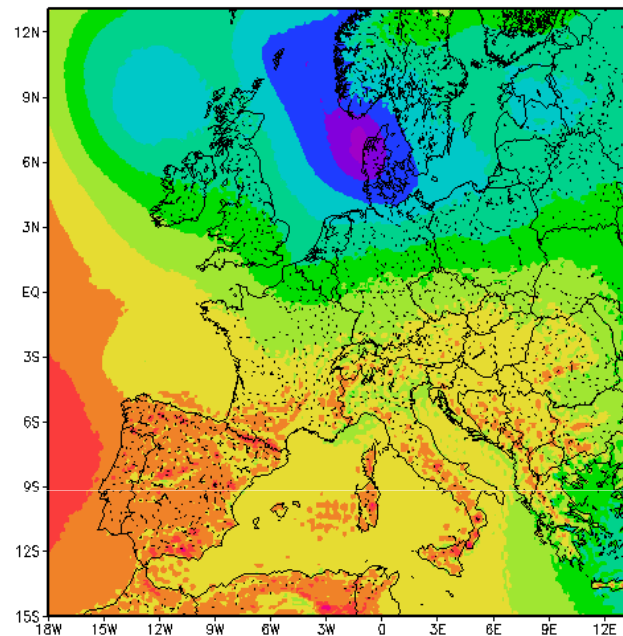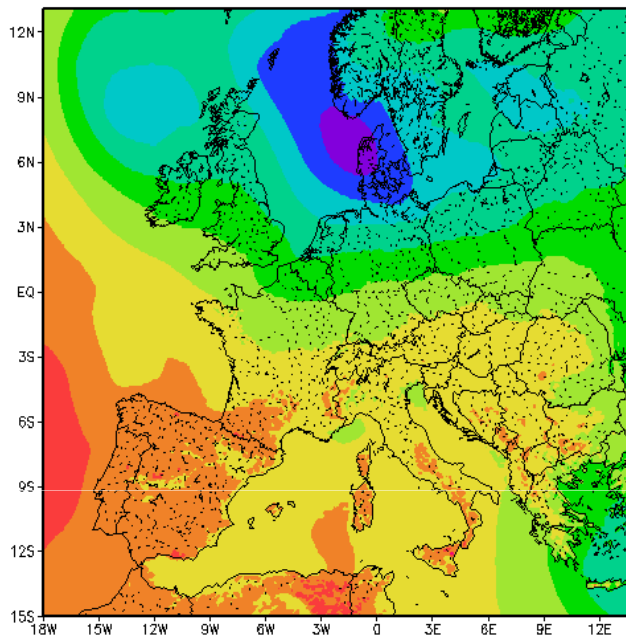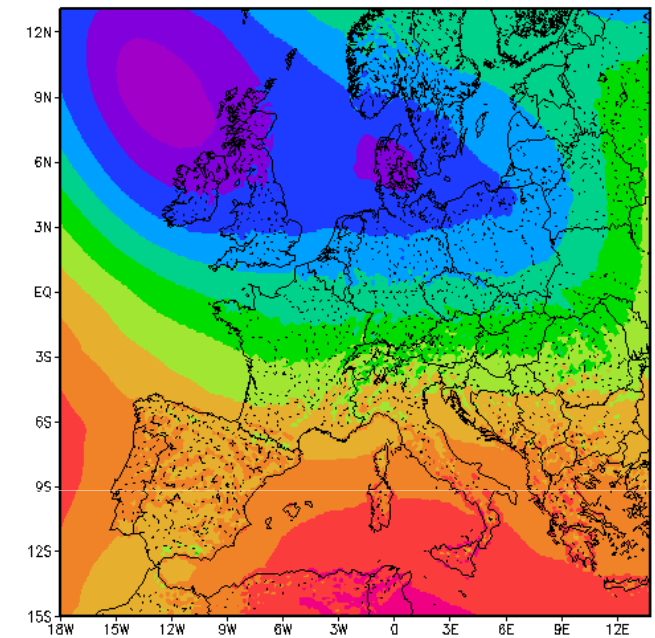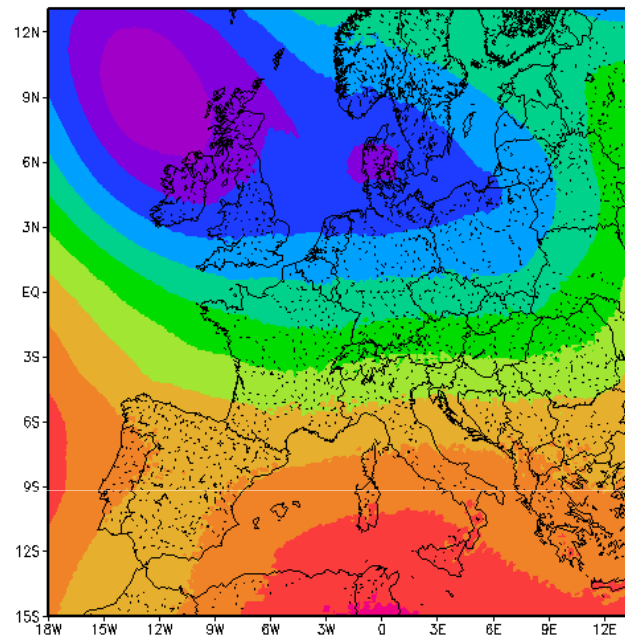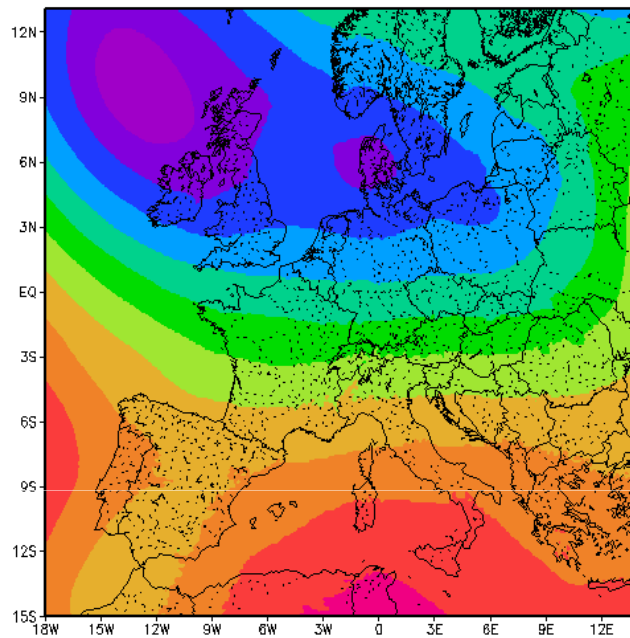GME   IFS   UM-NAE

Date: 18th August 2010, 00 UTC

Pressure deviation from reference pressure on COSMO
model level 20 (out of 40) interpolated from

| GME | IFS | UM-NAE |

Date: 18th August 2010, 00 UTC

HIRLAM activities

- We have continued to work on building the Grib1-Grib2 converter within the HIRLAM reference system

- But HIRLAM as a model is at the end of its lifetime. Not worth to build a long term strategy for interfacing to/from HIRLAM.

	ALADIN	COSMO	HIRLAM	UM
ALADIN				
COSMO				
HIRLAM				
UM				

Time to prepare for HARMONIE!

Ulf Andrae

HARMONIE activities and plans

Start from scratch again...

- First implementation of the SWI solution for HIRLAM/ECMWF input data in the current boundary preparation software (gl).

- Adaptation to handle ECMWF GRIB2 data.

- Cooperate with ALADIN on a common converter for the different consortia input.

- Prepare data for the common format.

Interoperability:
Met Office Progress report

has been given during the Review Talk on Monday
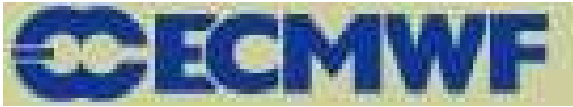
Activities in the SRNWP-I

- Support for GRIB2 and grib_api
- Provision of data-portal to upload test data and documentation