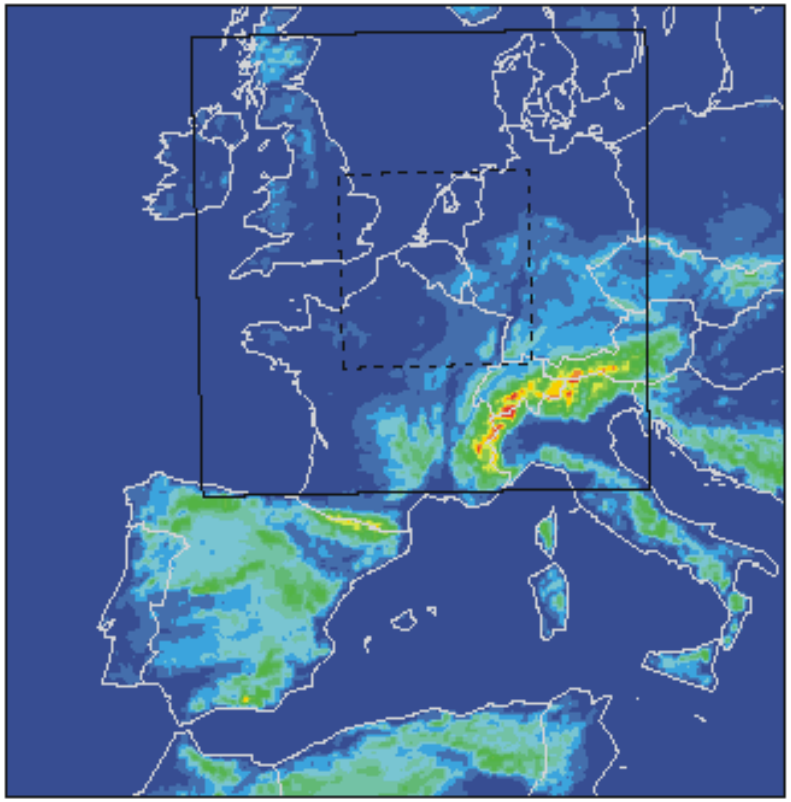
ALADIN/Belgium

- ALADIN-25 running on SGI origin 3400 (24 processors, 16 used for operational run)
- 7km resolution
- 2 runs daily, 00h and 12h
- Forecast period extended to 60h for pollution warnings
- Coupled to ALADIN/France
- Coupling to Arpège beyond 48h
- HAWK

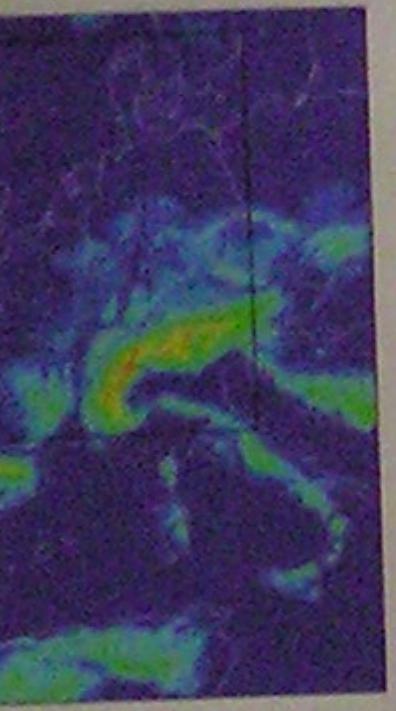
ALADIN/Belgium: new domain

Domain has been extended: $108 \times 108 \rightarrow 240 \times 240$.



> 48h)

ain was extended to 240 × 240
ne same grid resolution.



ALADIN/Belgium domain
ADIN/France.

o 60h

llution warnings, the integration
ended to 60 hours.

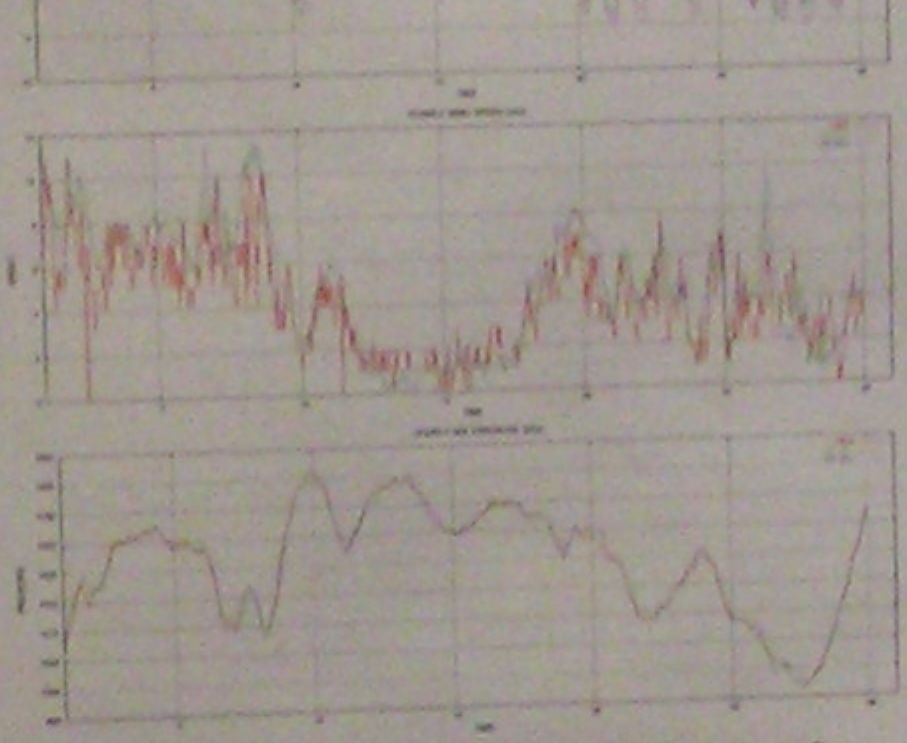


Figure 3: Hourly temperature, wind and surface pressure forecasts and observations for Ukkel (February 2004).

This is the known situation with overestimation of radiative cooling in very stable conditions.

Monitoring the Coupling-Update Frequency

We approach this as a problem of undersampling. The coupling-update frequency can be monitored by using a digital recursive filter in the coupling model. This monitoring algorithm will be implemented in Arpège and could

We introduced a new transpo
ical conditions that are unfa
pollution. For situations of l
sphere, when atmospheric t
to make reliable predictions
tions of non-reactive pollut
wind speed and stability by
facilitates the interpretation
ational assessment of the si
from ALADIN output.