Royal Netherlands Meteorological Institute
Ministry of Transport, Public Works and Water Management

NWP at KNMI

Netherlands National Poster

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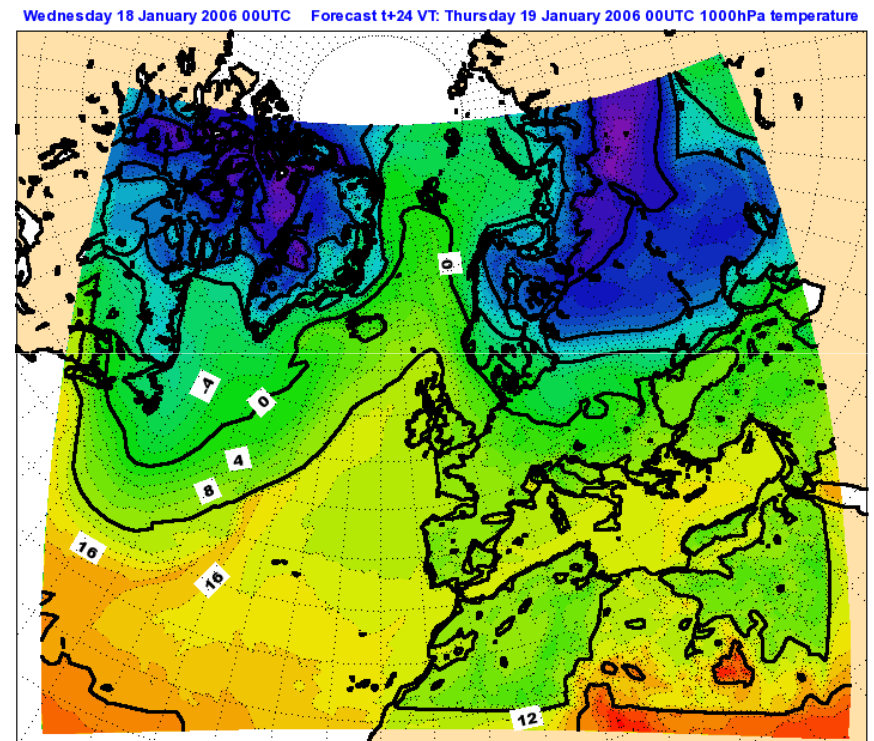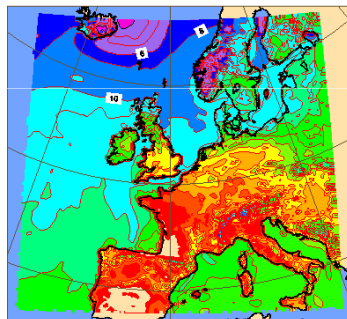**Royal Netherlands Meteorological Institute**

Operational model: Hirlam 11km

Version 7.2, 3-D VAR

- Large domain (NE Atlantic/Europe)
    runs 4x/day, on ECMWF boundaries

- Small domain (Europe center)
    runs 8x/day, on Hirlam boundaries

Wednesday 18 January 2006 00UTC   Forecast t+24 VT: Thursday 19 January 2006 00UTC 1000hPa temperature

KNMI contribution to the Hirlam programme

Frits Brouwer, director of KNMI: chairman Hirlam Council

KNMI members of the Hirlam management group
   - Jeanette Onvlee, programme manager
   - Sander Tijm, project leader physical parameterization
   - Tilly Driesenaar, scientific secretary

KNMI model R&D community

Gerrit Burgers
Jan Barkmeijer
Gerard Cats
Toon Moene
Ben Wichers Schreur

Pier Siebesma
Wim de Rooy
Cisco de Bruijn
John de Vries
Han The
Siebren de Haan
Sibbo van der Veen

Roel Stappers
Niels Zweers
Albert Jacobs
Wim Verkley
Gertie Geertsema
Hans de Vries
Vladimir Makin

Present activities
- short-range EPS
- physical parameterization of convection and boundary layer
- use of 'Mode-S' aircraft transponder data

Future plans
- contribution to GLAMEPS
- transition to Arome/Harmonie on small domain, outphasing Hirlam
- more emphasis on data assimilation

National Poster contributions
- Siebren de Haan   Use of aircraft transponder observations (MODE-S)
- Toon Moene   Hirlam/Harmonie operations at KNMI
- Wim de Rooy   Entrainment & detrainment parameterizations
- Roel Stappers & Sibbo van der Veen   CAPE SV's
- Ben Wichers Schreur   A severe fog case study: Hirlam vs WRF
- Roos de Wit & Sander Tijm   Lightning intensity forecasts with AROME
- Niels Zweers   Ocean wind stress response to surface drag changes