



GPSusage@ KNMI



Constellation@ KNMI

Bemese 5.0

Routinely hourly processing

Routinely processing ever 15 min.

Linux HighPerformance

2 dedicated CPU, >100 available

Reprocessing capacity/Shadow runs

Absolute phase centers from beginning of March
07

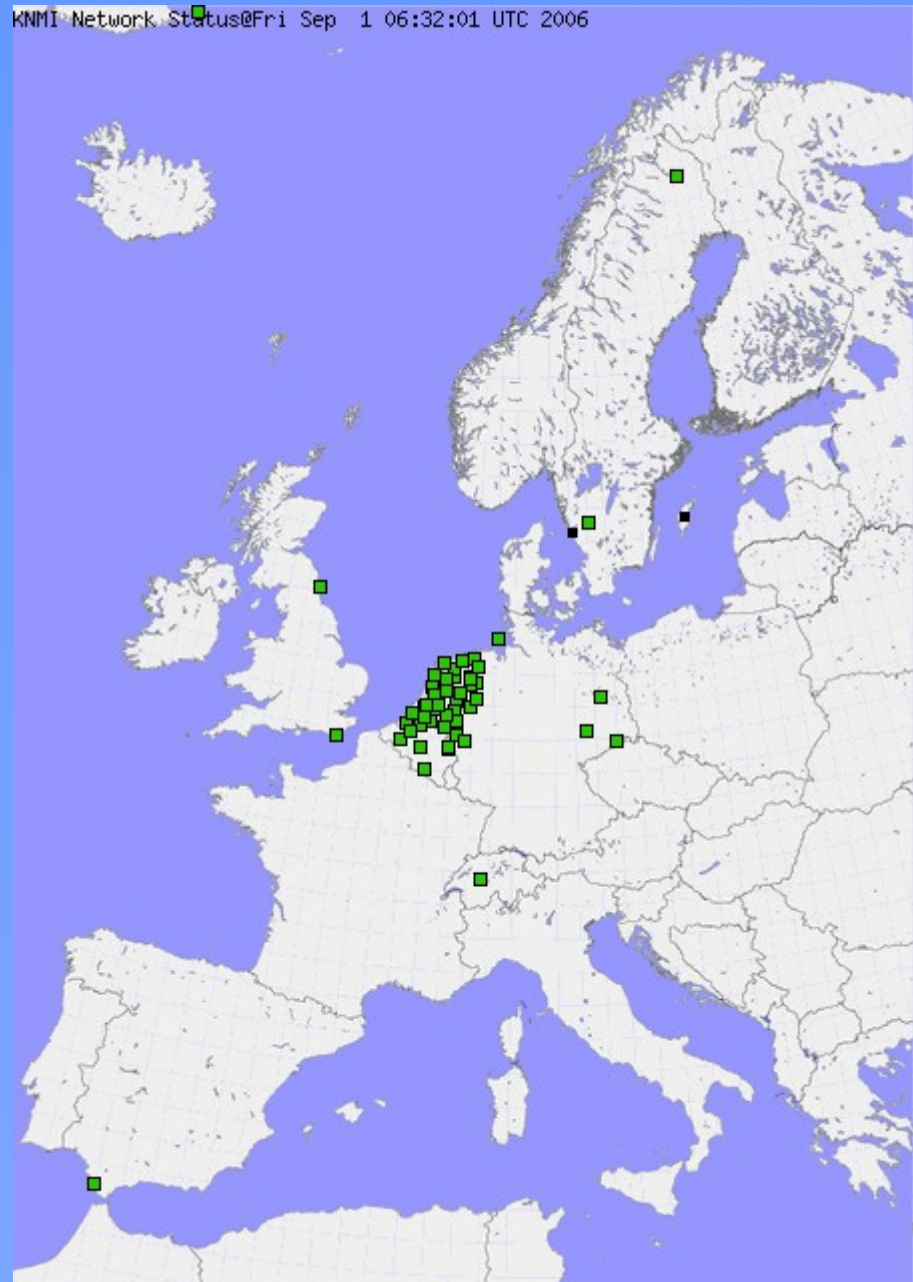
Hourly

51 sites

35 Dutch sites

3 hr for data
screening

12 hr NEQ



Nowcasting

15 minute processing

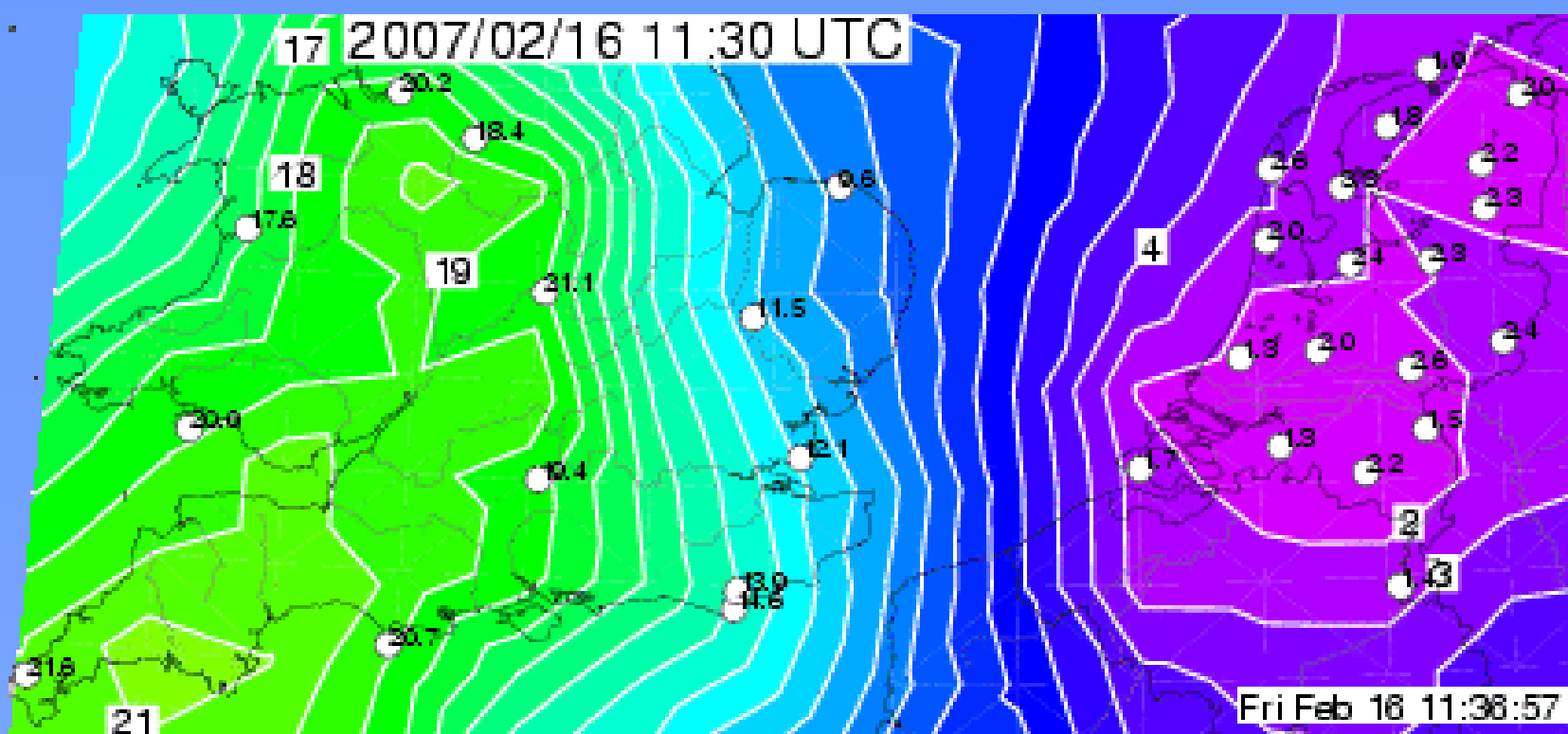
Reduced baseline network (19 Dutch sites)

Long baselines from 9 EUREF-NTRIP 15 minutes sites

10 Metoffice Sites (South of England)

Start +2, +17, +32, +47

Computation time < 5min



Construction of 2D Water vapour field

WV estimation

p, T not available every 15 min.

WV observations \Rightarrow 2D Varscheme

Simple background model or correlations

First guess based on previous studies

Topic of research : quantification of these errors

Background is previous solution

Update every 15 minutes

Plans

Assimilate GPS-ZTD in HIRLAM

Start March/April 2007; end Jan 2008

Routinely 15 minute processing

Statistics/Quality

Background/Model error

Merge hourly solutions of other AC's (re-analysis)

Promote usage in the Weather room

Case studies

Slant Water Vapour

