

# KNMI: Using ECMWF data for aviation and road service forecasting –

Aline Kraai  
(thanks to Sander Tijm, and Alwin Haklander)

Royal Netherlands  
Meteorological Institute  
Ministry of Infrastructure and the  
Environment



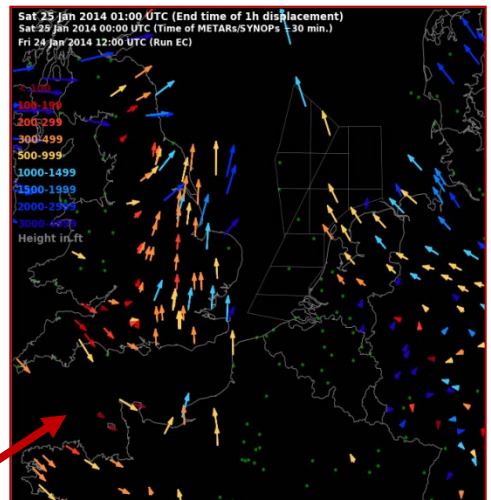
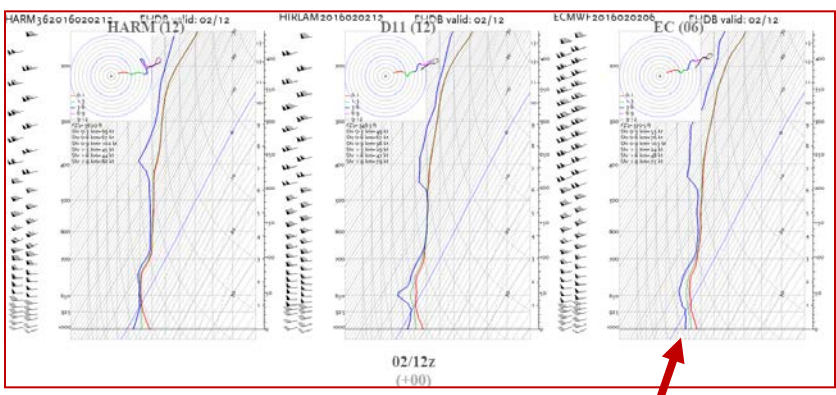
## About KNMI

KNMI is the Dutch National, independent knowledge and data center for weather, climate and seismology and is founded by Buys-Ballot in 1854. It disseminates weather information to the public at large, the government, aviation and the shipping industry in the interest of safety, the economy and a sustainable environment.

**Informing public** at large especially with regard to extreme weather and road services

**Aviation** Amsterdam Schiphol, Regional airports, General Aviation

**Marine** North Sea and coastal waves, tide, on purpose, water levels, oil rigs, coastal defence, harbour of Rotterdam.

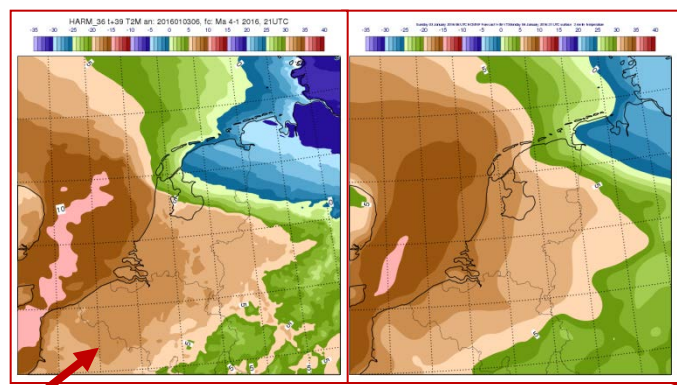


## Sounding comparison with other models

Comparing **ECMWF** soundings at the same location and time step with other higher resolution models.

## TRAJ-tool: Nowcasting cloud base height using ECMWF wind data

A **cloud base height- trajectory tool** was developed to now cast cloud base height for aviation purposes. Cloud base height observations derived from METARs are classified into aviation-relevant classes (ICAO). **ECMWF wind data** on corresponding levels are used to determine propagation of cloud base.



## T2m comparison and verification

T2m by **ECMWF** and HARMONIE at beginning of cold period. **ECMWF** shows a positive bias around 0°C. Is this because of soil heat?

