



# WINPROF-II.

Tim Oakley, WINPROF II Programme Manager, May 2008



# Introduction

- Background
- Current Status of WINPROF-II
- Data Quality
- Plans for 2008



# What is EUMETNET?



*The Network of European Meteorological Services*



- **EUMETNET is a network grouping 24 National Met. Services.**
- **Provides a framework to organise co-operative programmes.**
- **Members aim to develop their collective capabilities to serve environment management & climate monitoring.**
- **Bring to all European users the best available quality of meteorological information.**
- **Make more efficient the management of their collective resources**



# Aims of WINPROF?

- Operation of a network hub.
- Expansion of hub (wind profilers and weather radars).
- Maintain technical expertise.
- Evaluate new developments (hardware and software).
- Maintain the data exchange standards (BUFR).
- Liaise with other Programmes EUCOS, COST & WMO
- To liaise with EUMETFREQ on the protection of frequencies for wind profiler radars operating near 1.29 GHz (GALILEO issue).
- **To integrate operational wind profilers into EUCOS.**



# WINPROF-II Current Status

- Final year ( 3 year Programme )  
ending 30<sup>th</sup> April 2008 but extension to 31<sup>st</sup> Dec 2008
- Responsible Member – UK Met Office
- Programme Manager – Tim Oakley
- Technical Officer (Hub) – Myles Turp

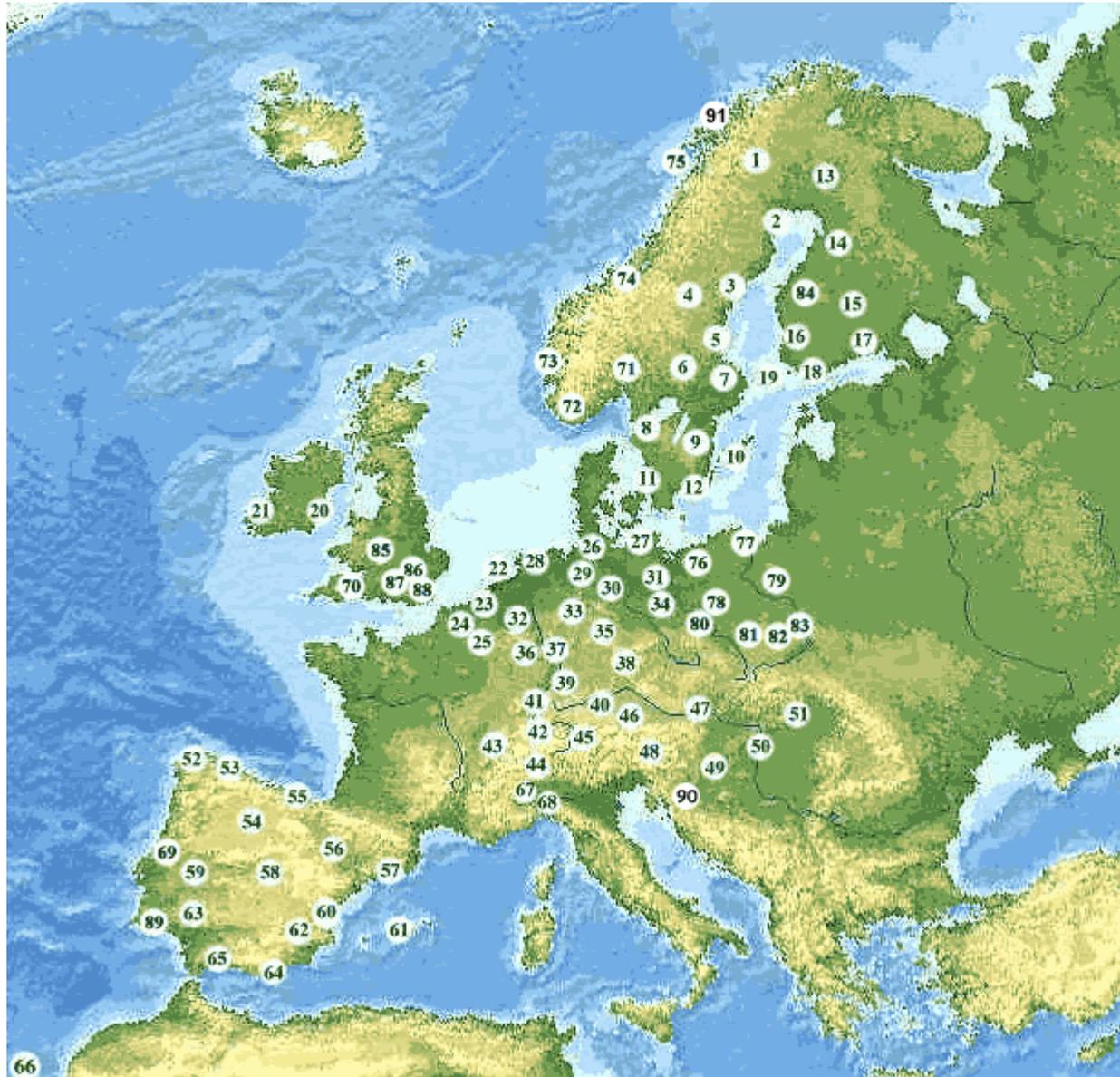


# CURRENT WIND PROFILER NETWORK





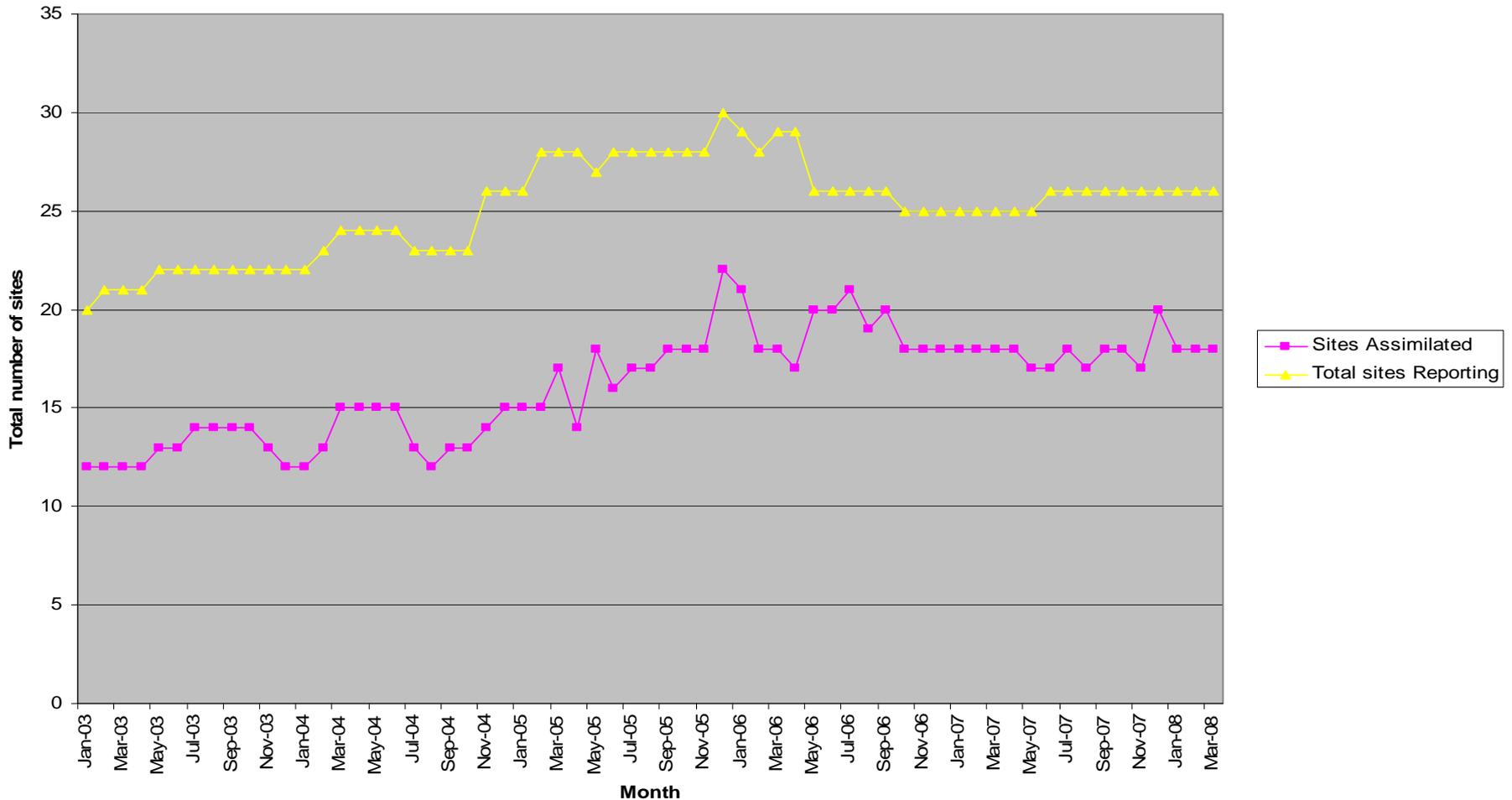
# CURRENT WRWP NETWORK





# Wind Profiler UK Assimilation

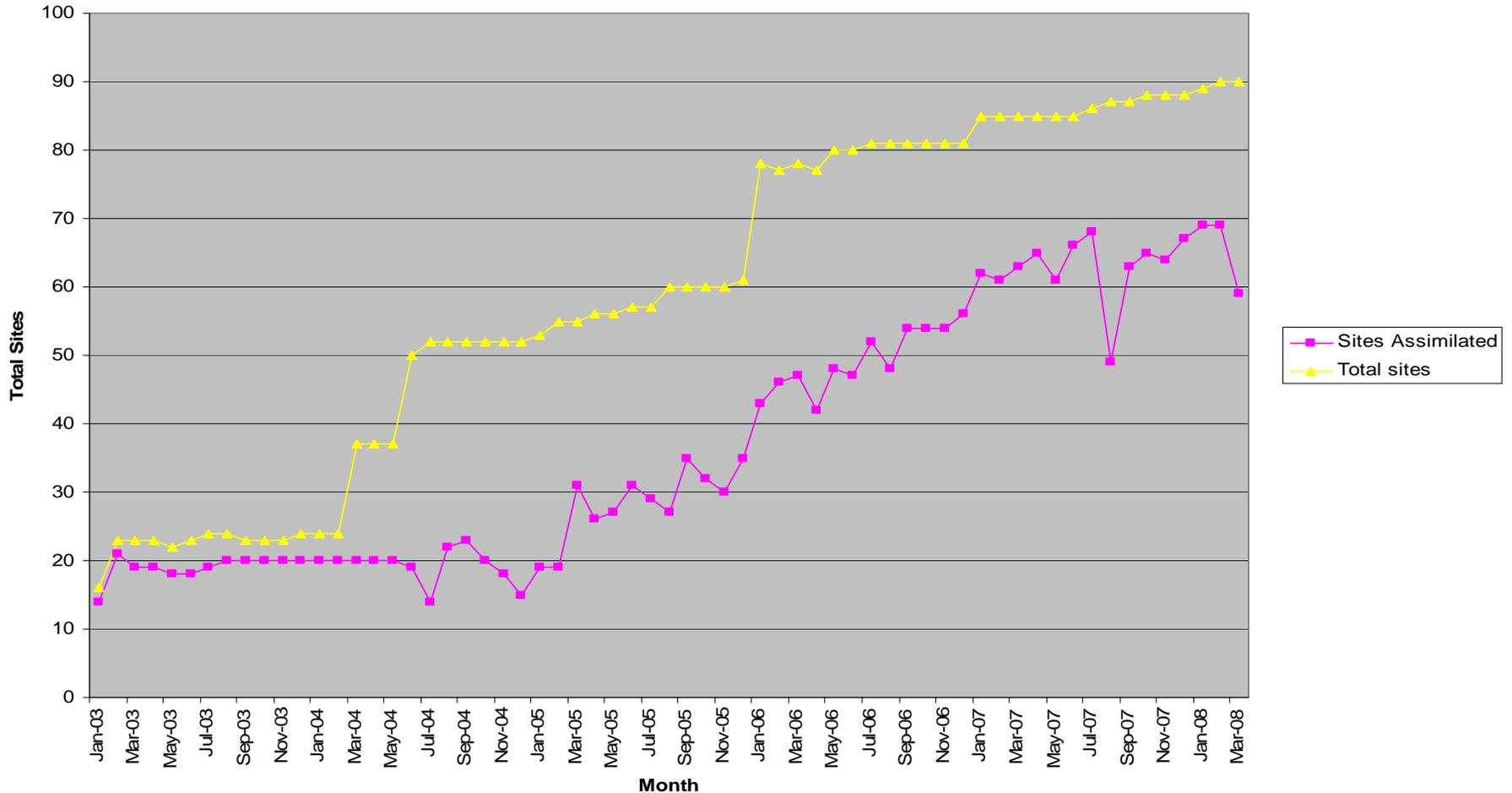
Wind Profiler Sites Assimilated in UK Met Office Model





# WRWP UK Assimilation

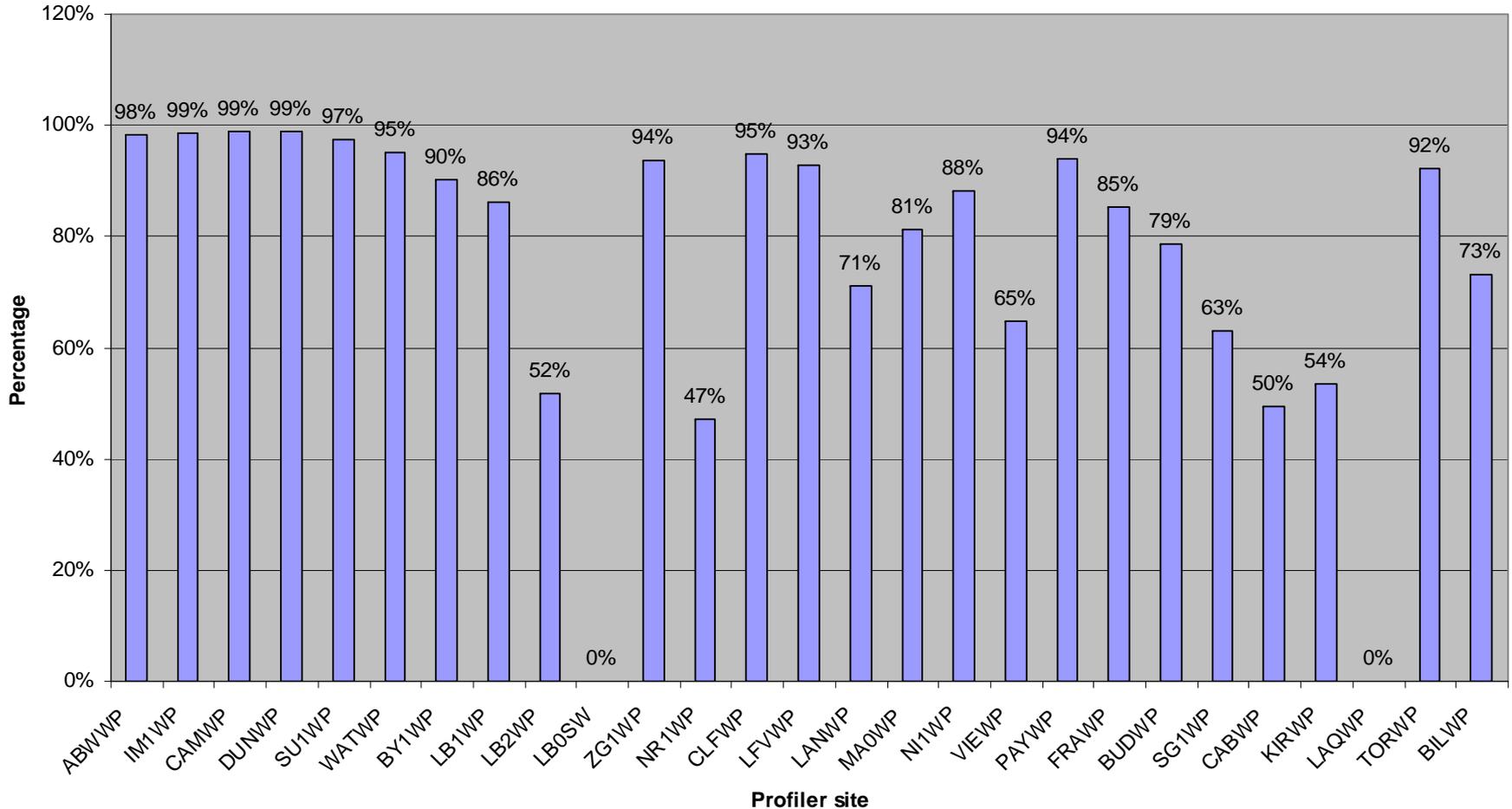
Weather Radar Wind sites being Assimilated in UK Met Office Model





# WIND PROFILER Real-Time Data Averages

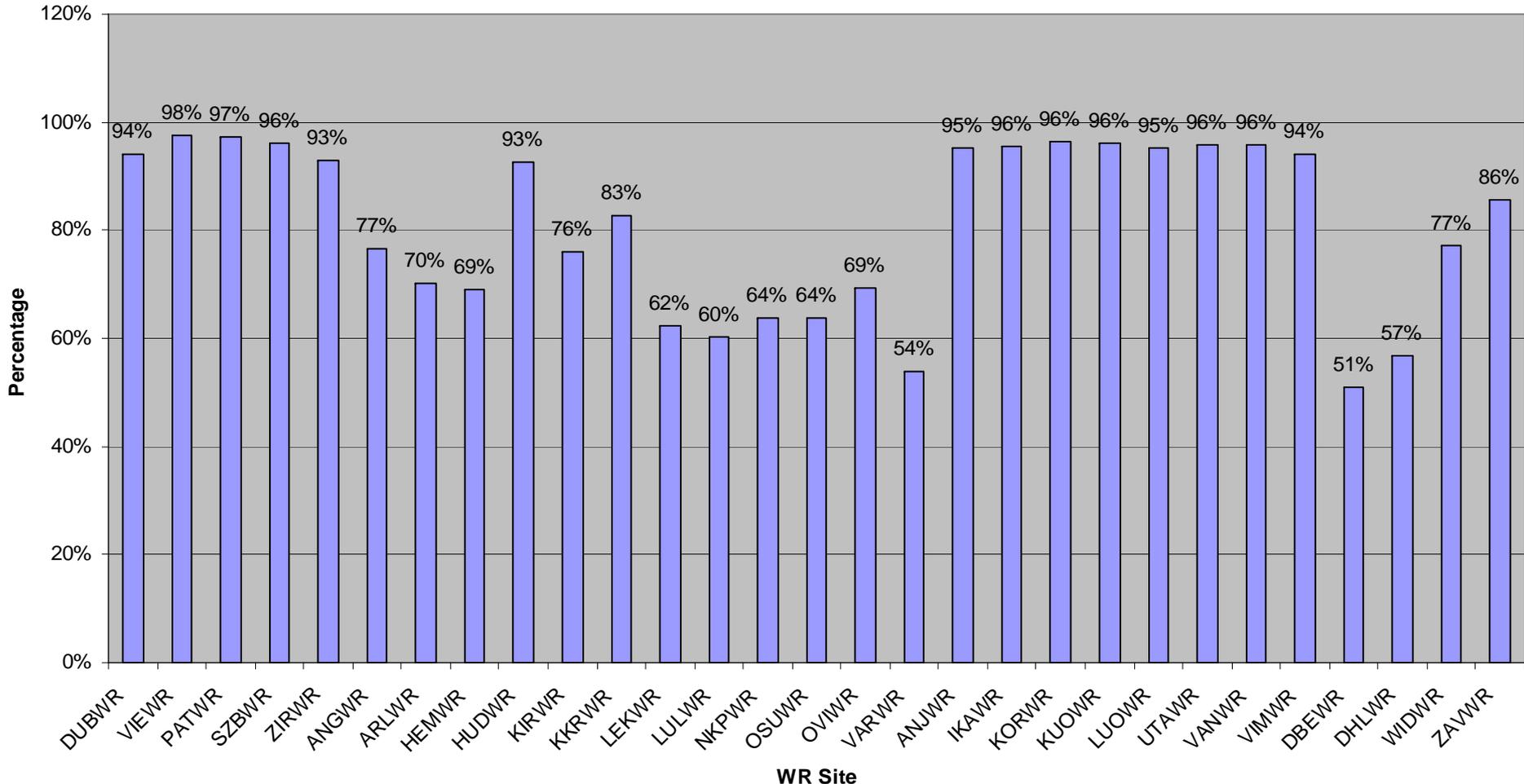
Wind Profiler Data received in real-time - 1/3/07 - 29/02/08





# WRWP Real-Time Data Averages – part1

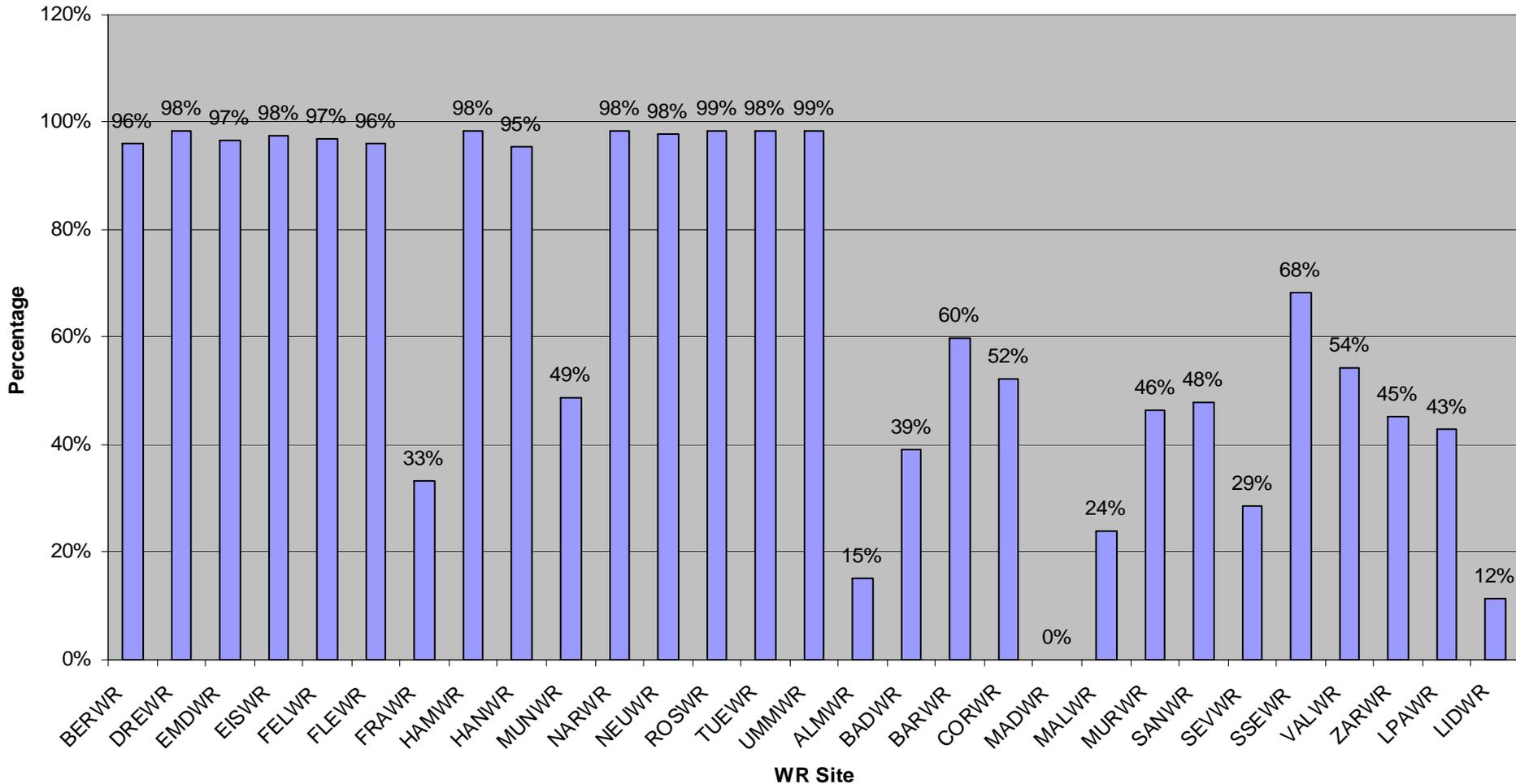
WRWP Received in Real-Time - Ireland, Austria, Sweden, Finland, Netherlands and Belgium - 1/3/07 - 29/02/08





# WRWP Real-Time Data Averages – part2

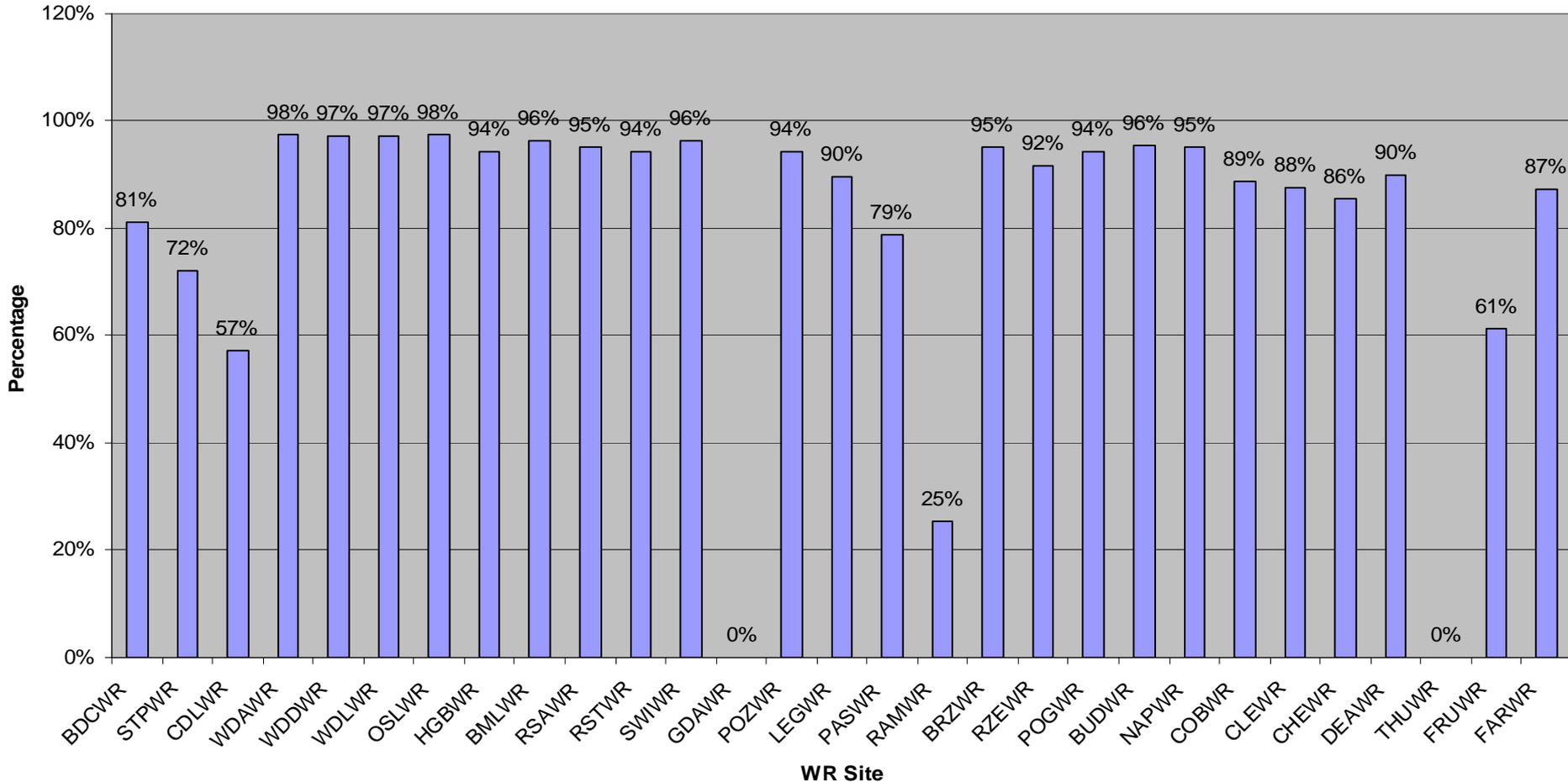
WRWP Data received in real-time - Germany, Spain(Excluding messages with no winds) - 1/3/07 - 29/02/08





# WRWP Real-Time Data Averages – part3

WRWP Received in Real-Time - Italy, Portugal, Switzerland, UK, Norway, Hungary, Poland, UK - 1/3/07 - 29/02/08





# QUALITY

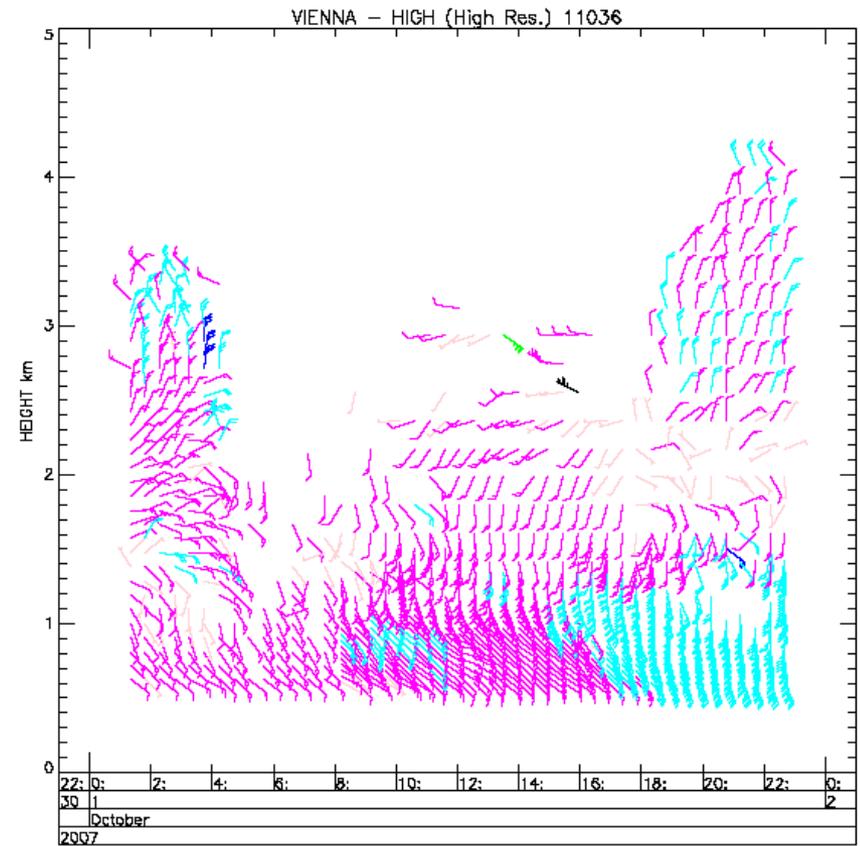
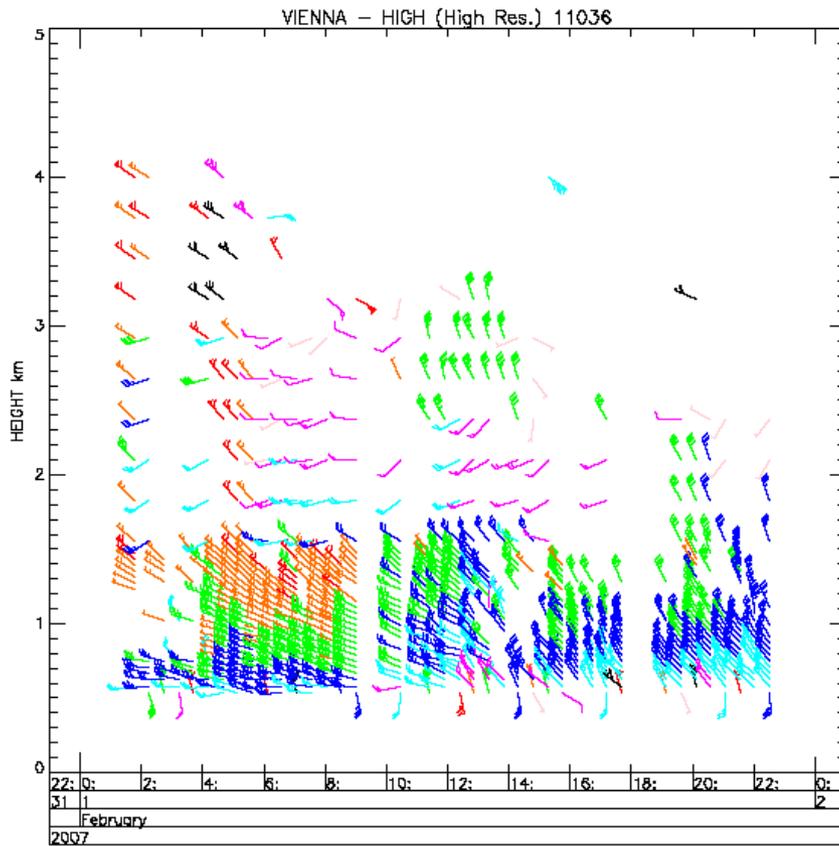
- Data Quality.
  - Identification of quality issue(s) [Workshops + CWINDE ]
  - Implementation [ Action(s) from workshops & Expert team]
  - Monitoring [ CWINDE & Expert team ]
- Defining an operational ‘standard’ before systems can be integrated.

(Availability, Quality, Maintenance & support)

- Agree network of Wind Profilers & Weather Radars for OSE studies & EUCOS Integration.
- Working with OSE studies team(s)

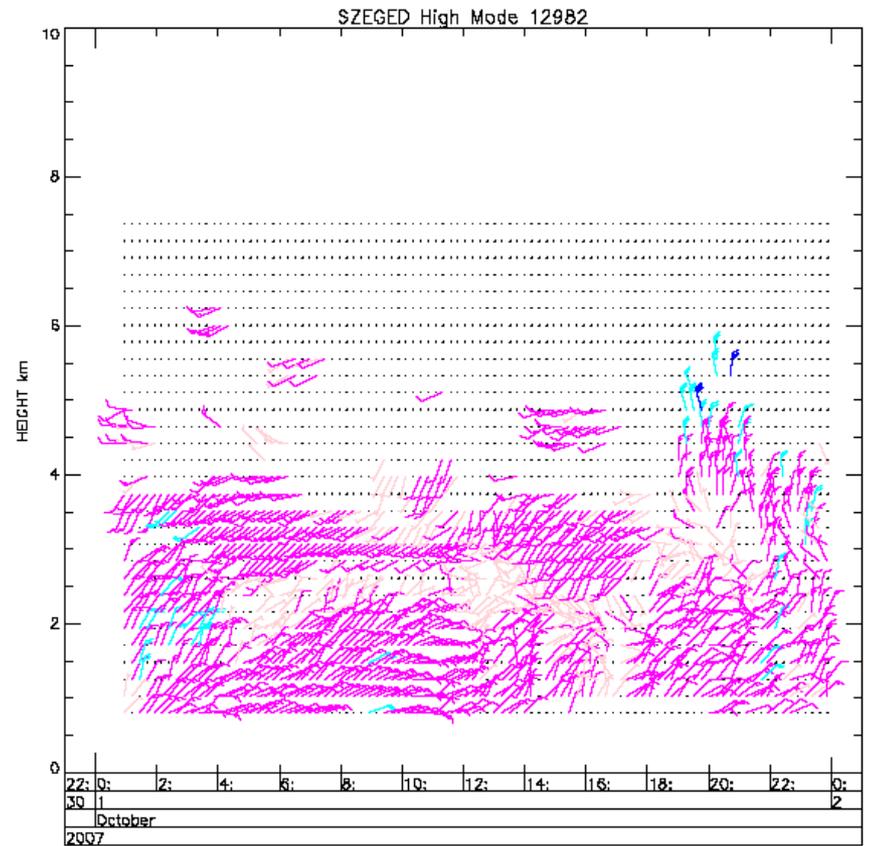
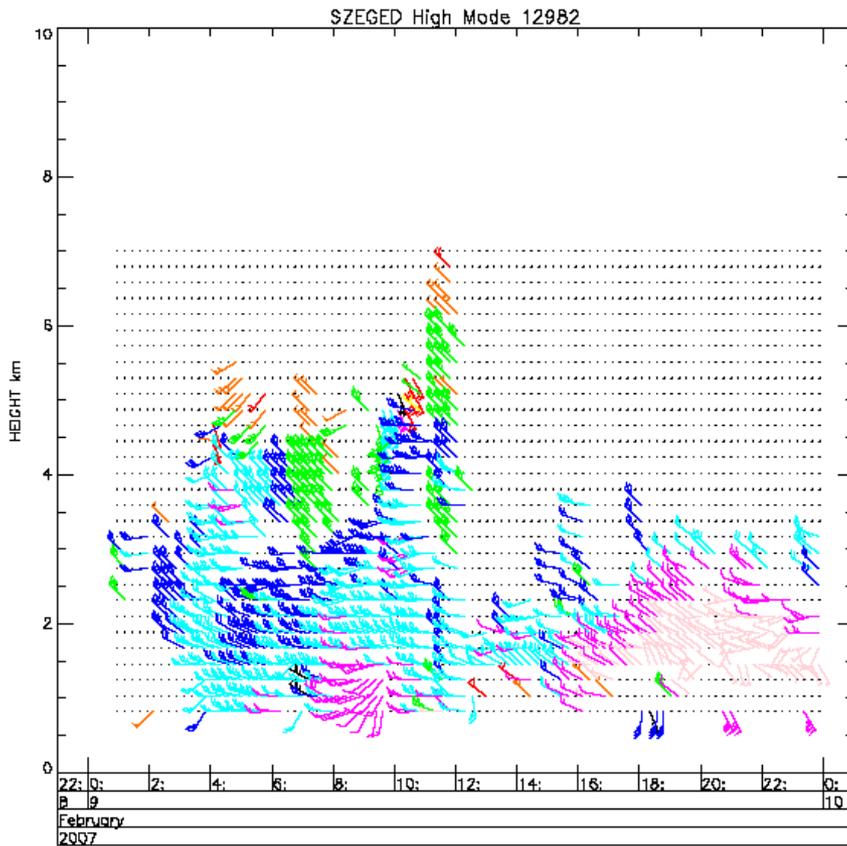


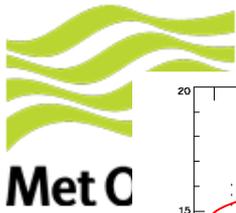
# Quality ( Before and After )





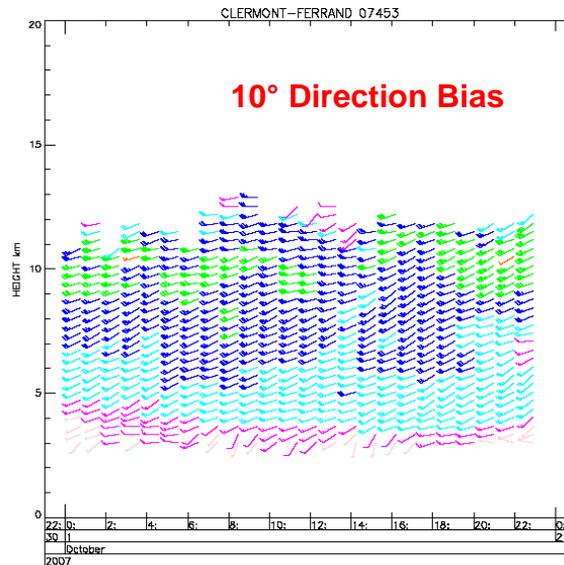
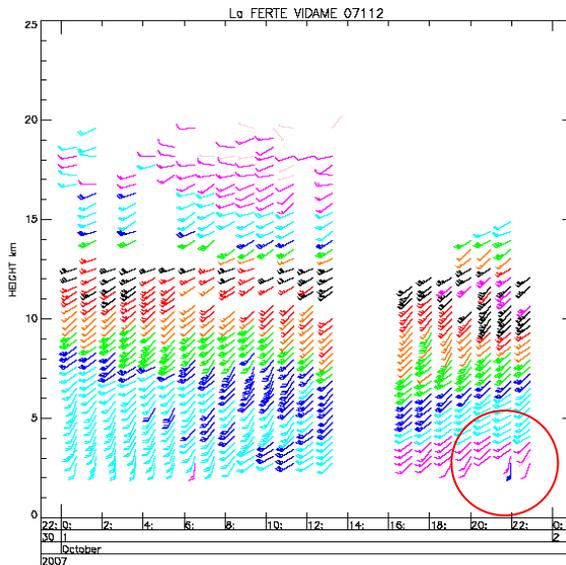
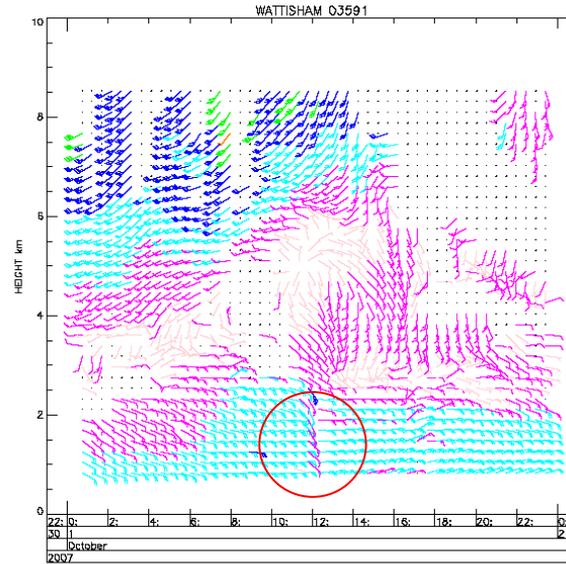
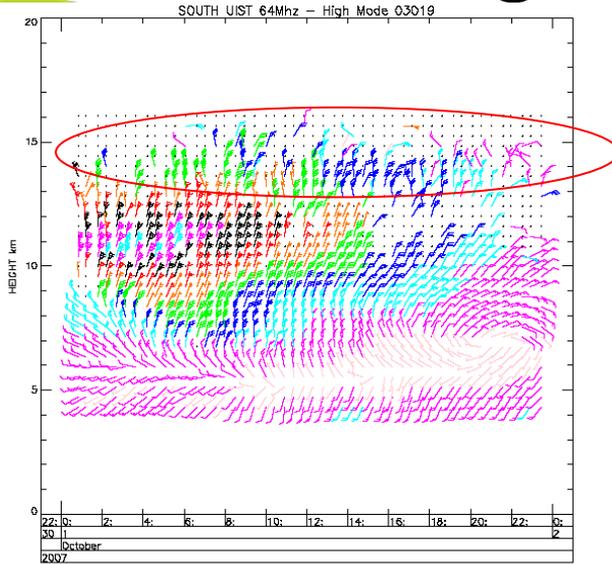
# Quality ( Before and After )





Met Office

# Not all good.....





# Plans for 2008

- Ongoing Hub operations
- Approval for E-WINPROF (Summer 08)
- Improved QC implementation (end 2008)
- Improved Quality Monitoring (via EUCOS portal)



# Questions & answers