



February's big storm hits the UK

– The white area are wind speeds exceeding 54 mph.

ManUniCast

teaching resource

A real-time weather forecasting website

ManUniCast is a weather and air-quality forecasting website used as a teaching resource and outreach tool for students. A beta version of the website was launched on 4 November 2013.

It uses two models for forecasting; the Weather Research and Forecasting (WRF) model, plus the WRF model with Chemistry (WRF-Chem)

Every day, one meteorological and one chemical forecast are performed on the University's Redqueen High Performance Computer (HPC) cluster. Running each WRF and WRF-Chem model takes approximately 6 and 10 hours respectively. When complete, the forecast data is published on the ManUniCast website.

This project was carried out by researchers at the Centre for Atmospheric Science, in collaboration with the eLearning team in the Faculty of Engineering and Physical Sciences, and supported by IT Services.

Visit the ManUniCast website for your latest weather and air-quality forecast, and for more information about the project.

Thanks to:

- Simon Hood, George Leaver and the Research Infrastructure team for their help setting up the models, installing the computational nodes, configuring software and optimising the code
- Chris Paul for configuring and maintaining the Virtual Machine and web server hosting the ManUniCast website

For more information about the project and your latest weather and air-quality forecast visit:

manunicast.seaes.manchester.ac.uk