

European Conference on Severe Storms 2015
14–18 September 2015, Wiener Neustadt, Austria
ECSS2015-123
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ManUniCast: A Real-Time Weather and Air-Quality Forecasting Portal and App for Teaching

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ManUniCast is a real-time weather and air-quality forecasting portal developed for education and outreach at the University of Manchester. The web portal [manunicast.com](http://www.manunicast.com) displays model output from a WRF simulation with 20-km horizontal grid spacing over the North Atlantic and Europe, including a 4-km nest over the UK and Ireland. The portal also displays output from a WRF-Chem simulation at 12-km grid spacing over the UK. The portal displays over 60 different meteorological, chemical and composition quantities. Both the portal and an accompanying mobile app are free. Educational opportunities for incorporating ManUniCast into existing courses are discussed. The URL for ManUniCast is <http://www.manunicast.com>.