Marion Mittermaier, Met Office

Bio:

Marion works within the Model Evaluation team of the Global Model Evaluation and Development section. As global NWP resolutions continue to progress towards sub-10 km, she is forming a bridge between the diagnostics specifically developed for regional km-scale Numerical Weather Prediction (NWP) and those developed for global sub-seasonal-to-seasonal (S2S) time scales so that the best of both worlds become accessible irrespective of resolution or lead time horizon.

Marion's focus is on developing both convective-scale and seamless tools for identifying systematic errors alongside extracting maximum usefulness from the model forecasts, despite these errors. She is also the Met Office science lead for the implementation of a community-based open-source evaluation tool METplus as the future operational verification system read for the next generation of models and supercomputers.

Marion joined the Met Office in February 2004 after completing a PhD at the University of Reading, which focused on exploiting the synergy between model forecasts and radar. Her under-graduate background is in Applied Mathematics, Meteorology and Statistics. She started her career at the South African Weather Service in 1995 working on analysing aircraft in-situ observations of cloud-aerosol interactions, microphysical processes in thunderstorms, storm dynamics (using radar data), and hydrometeorology. She has lectured post-graduate courses in cloud dynamics and radar meteorology.