

Assimilation of GPS radio occultation measurements at the Met Office

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At the Met Office, radio occultation (RO) data is assimilated into global and regional NWP models. This provides a positive impact as verified by data-denial experiments and adjoint sensitivity studies, the latter of which have provided further useful diagnostics. The quality of assimilated bending angles is assessed in near-real-time, along with refractivities, against Met Office model backgrounds and colocated radiosondes. In this presentation recent progress and future plans concerning the choice of observation errors and possible approaches to account for tangent point drift in the Met Office system will be discussed.