



Met Office
Hadley Centre

Climate monitoring using GPS radio occultation bending angles

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Summary

- Simulation study using Hadley Centre climate model, HadGEM1, to investigate the use of GPSRO bending angles for climate monitoring over the coming decades
- Considers the evolving signal over the next 50 years and the information content of this signal in relation to that of the bending angle measurement itself
- Looks at the potential for detecting climate trends at different levels of the atmosphere and estimates “detection times” for these trends
- Also compares the magnitude of the climate signal and detection times with AMSU temperature sounding channels