Comparison of IASI radiances with models from seven operational centres

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Bias and noise in IASI spectra may be identified by comparing the data with radiances calculated from forecasts and analyses from Numerical Weather Prediction (NWP) models. The bias and standard deviation of fit against model fields are compared for seven operational centres: the Met Office, ECMWF, EUMETSAT, Meteo-France/GMAP, Meteo-France/CMS. Good agreement is found between IASI and NWP fields, showing that IASI is performing within its specification. Areas of the spectrum where the comparisons differ or agree can be used to investigate whether errors arise from the NWP model, the spectroscopy or the instrument.