Impact of variable O3 and CO2 on assimilation of high spectral resolution sounder data

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The bias of AIRS observations relative to observations simulated from the Met Office global model show both seasonal variations and an on-going trend. Some of these changes are clearly caused by upgrades to the model but others are due to variable gases and in particular O3 and CO2. The variations that have been observed are displayed and possible approaches to reduce the effect of variable O3 and CO2 are presented.
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