

AIRS assimilation at MSC

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Progress toward the assimilation of AIRS radiances at MSC is described. The first implementation should use about 100 channels. Cloud top and amount are inferred by our adaptation of the CO₂ slicing technique using twelve radiance pairs. Radiances insensitive to clouds are considered for assimilation. A simple bias correction scheme is used with automated updating. Channels which are not considered include those sensitive to ozone, to sun illumination, to the atmosphere above the model top, or characterized by complex Jacobian shapes such as long stratospheric tails. First results from assimilation cycles should be available at the time of the conference.