

Spatial and Temporal Distributions of Retrieved O<sub>3</sub>, CO, H<sub>2</sub>O and  
Temperature from the Airborne Emission Spectrometer (AES)

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During July 1995, the Airborne Emission Spectrometer (AES) was deployed on the NASA C130Q aircraft to participate in the Nashville/Middle Tennessee Intensive Campaign of the on-going Southern Oxidants Study (SOS). We present our maps of retrieved O<sub>3</sub>, CO and H<sub>2</sub>O column abundance as well as atmospheric temperatures for six flights over urban and rural areas. Our retrieval results are compared with in situ and lidar measurements obtained during the same time period by other aircraft, sondes and ground-based monitoring stations.