

Measurements of OH, H₂SO₄, and MSA from the C-130

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The MIRAGE study offered a unique opportunity to obtain measurements in different air masses with a wide degree of human impact. Two particularly interesting regions were over a oil refinery, and a large area of bio mass burning. Here we will present OH, H₂SO₄, and MSA measurements made aboard the NCAR C-130 during the MIRAGE study. Focus will be given to the two regions described above. The region of bio-mass burning showed large variability in all three species, while measurements over the oil refinery yielded the largest ambient H₂SO₄ concentrations ($> 10^8$ molecule cm⁻³) of the study.