

SGP Data Set Summary

<u>General Information</u>	<u>Primary Measurements</u>	<u>Collection Dates</u>	<u>Status of Data</u>
<p>Canadian NRC Twin Otter Ian MacPherson, L. Mahrt, J. Sun, R. Desjardins, P. Schuepp Web sites: mist.ats.orst.edu/sgp www.iar.nrc.ca/iar/fr_otter-e.html & eostest2.gsfc.nasa.gov/CAMPAIGN_DOCS ... /SGP97/twin_otter.html</p>	<p>fast-response for fluxes: three velocity components, temperature, specific humidity, carbon dioxide, ozone slow-response: greenness channels, surface radiation temperature, net radiation and components, aircraft LAT & LON, pressure, height</p>	<p>18 June - 17 July</p>	<p>Processed with calibrations and initial QC at NRC, Ottawa. Additional QC and analysis of flux sampling errors at Oregon State. The final QC report, flux values and error analysis will be available about through the Oregon State web site.</p>
<p>U. of N. Dakota Citation Jeff Stith</p>	<p>LASE Underflight and Intercomparison with Twin Otter, Early BL Development both 1 Hz and 24 Hz of: 3D wind, temperature, moisture, position, aerosol concentration</p>	<p>13 July - 17 July</p>	<p>Initial QC with further processing pending intercomparison with other aircraft. Data may be available on individual-cooperative basis with other investigators with tentative plans for availability on Goddard web site.</p>
<p>NOAA/ARL Atmospheric Turbulence & Diffusion Ronald Dobosy, Edward Dumas Web sites: www.atdd.noaa.gov mist.ats.orst.edu</p>	<p>NOAA/ATDD Long-EZ airborne atmospheric boundary-layer measurements high freq: airplane position, time, 3 wind components, temperature, ambient pressure, concentrations of H₂O and CO₂ low freq: net radiation, upwelling & downwelling photosynthetically active radiation, surface radiation temp and 4 satellite bands in IR and VIS (to compute vegetation indices)</p>	<p>19 June to 17 July 1997</p>	<p>Initial processing and quality control completed in Oak Ridge. Data have been sent to Oregon State for further quality checking. Final QC report, fluxes and other statistics will be available by mid summer 1998 from the OSU web site.</p>
<p>NASA LaRC, U of Minnesota, NCAR Edward Browell (Principle Investigator) Syed Ismail (Co-PI), Rich Ferrare, Kenneth Davis, Donald Lenschow, And Christoph Senff (Co-Investigators)</p>	<p>LASE on NASA P-3 water vapor mixing ratio and relative aerosol scattering profiles are measured derived data: total atmospheric scattering ratios, and aerosol backscattering coefficients, water vapor variances and boundary-layer means and boundary-layer depth</p>	<p>July 11-17</p>	<p>The water vapor mixing ratio, relative aerosol backscatter, and aerosol scattering ratio data have been derived from LASE measurements and have been made available to co-investigators.</p>
<p>Georgia Tech Christa Peters-Lidard</p>	<p>Tethersonde actual (during 1000m ascent): dry bulb temp, wet bulb temp, pressure, wind speed, direction derived: altitude, relative humidity, potential temperature, mixing ratio, specific humidity, vapor pressure, etc.</p>	<p>18,19,22,25-29 June; 2,4-6,14-16 July</p>	<p>Initial QC in process</p>