



NASA Ames SUNPHOTOMETER/ SA


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Current & Recent Field Experiments

INTEX-NENA-ICARTT



In Summer 2004 several coordinated experiments will study air qual transport, and radiation balance in air masses carried across the US at Europe. NASA is organizing [INTEX-NA](#). NOAA is organizing [NENAQs - ITCT 2004](#). And Europeans are organizing ITOP. [ICARTT](#) enhance the synergy between INTEX, NENA, and ITOP.

[AATS-14](#) will participate in INTEX and NENA by flying on a twin t 31, based at Portsmouth, NH in July and August 2004. Its goal is to l aerosol radiative properties and effects in flights that sample polluted in coordination with measurements by other INTEX-NENA platform and a ship.



The primary purpose of this experiment is to validate the over-ocean optical depth (AOD) measurements at 1.6 and 2.1 μm aboard the Ter The primary tool for validating the MODIS AOD is the 14-channel N Tracking Sunphotometer, AATS-14, which will fly aboard the CIRP/ aircraft out of Monterey, CA. The timing of the experiment is chosen maximum transport of Asian dust to the US West coast, one of the fe with considerable AOD in the near-IR.



[ARM Aerosol IOP](#)

To gain improved understanding and model-based representation of a influences an IOP is planned to be conducted at the Department of Er Southern Great Plains Site in north central Oklahoma, in May 2003. carry out a variety of closure experiments on aerosol optical propertie influence. Additionally, planned measurements of the aerosol chemic distribution will allow testing of the ability to reconstruct optical prop measurements.

Other website to visit:

http://www.tap.bnl.gov/arm_aerosol_iop.html



The Asian Dust Above Monterey-2003 (ADAM-2003) project is a scientific observational field study to investigate the properties and effects of anthropogenic Asian aerosols transported to the west coast of the United States during springtime. ADAM-2003 will take place from April 1-30, 2003 based in California. AATS-14 will be operating onboard the CIRPAS Twin Otter.



The SAGE III Ozone Loss and Validation Experiment (SOLVE II) is a campaign designed to examine the processes controlling ozone levels at high latitudes. Measurements will be made in the Arctic high-latitude region using the NASA DC-8 aircraft, as well as balloon platforms and ground-based stations. The mission will also acquire correlative data needed to validate the Stratospheric Gas Experiment (SAGE) III satellite measurements that will be used to assess high-latitude ozone loss.

Other website to visit:

<http://cloud1.arc.nasa.gov/solveII/index.html>



[click here for CLAMS data](#)

CLAMS is an aircraft field campaign running from July 10 through August 10, 2003. A shortwave closure experiment targeting clear (cloud-free) sky conditions. AATS-14 instrument will be integrated on the CV-580.

Visit the AATS site for CLAMS:

<http://snowdog.larc.nasa.gov/ftp/incoming/clams/AATS/index.html>

AATS data page for CLAMS:

http://geo.arc.nasa.gov/sgg/CLAMS/data_plots_login_page.html

Other website to visit:

<http://snowdog.larc.nasa.gov/clams/>



The first major airborne/shipborne campaign of ACE-Asia took place in 2001. Both of our instruments, AATS-14 and AATS-6, were involved. AATS-14 was integrated on the CIRPAS Twin Otter. AATS-6 flew on the NOAA P-3. Both planes were flown out of Iwakuni Marine Corps Air Station, Japan.

Other websites to visit:

<http://saga.pmel.noaa.gov/aceasia/>

<http://www.joss.ucar.edu/ace-asia/>

Important Links: [NOAA website](#) [SGG website](#) [NASA Ames homepage](#) [NASA homepage](#)

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[Go to Ames Sunphotometer/Satellite Team Website](#)

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