A Field Project of the *International Global Atmospheric Chemistry Project (IGAC)*

* Focus 8, Atmospheric Aerosols *

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**WHAT'S NEW WITH TARFOX!** - updated Feb-01-2000

**TARFOX Schedule** - updated Feb-02-1999
Science and Implementation Plan

TARFOX Summary for IGAC/FAA Booklet

Mission Summaries and Overview Data

More on TARFOX

JGR Special Section One - updated Feb-18-1999

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- Interannual variation of ambient aerosol characteristics on the east coast of the United States - Remer, et al.
- An overview of the University of Washington airborne measurements and results from the Tropospheric Aerosol Radiative Forcing Observational Experiment (TARFOX) - Hobbs
- Humidification factors for atmospheric aerosols off the mid-Atlantic coast of the United States - Kotchenruther, et al.
- Aerosol optical depth retrieval using ATSR-2 and AVHRR data during TARFOX - Vreekind, et al.
- Retrieval of aerosol optical thickness and size distribution over ocean from the MODIS airborne simulator during TARFOX - Tanré et al.
- Comparison of observed and modeled direct aerosol forcing during TARFOX - Hignett, et al.
- Aerosol-induced radiative flux changes off the United States mid-Atlantic coast: Comparison of values calculated from Sun photometer and in situ data with those measured by airborne pyranometer - Russell, et al.
- Aircraft observations and modeling of sky radiance distributions from aerosol during TARFOX - Francis, et al.

JGR Special Section Two - list revised 05-14-1999

Submission Deadline set for May 1, 1999.

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Potential Papers:

http://geo.arc.nasa.gov/sgg/tarfox/
Properties of aerosols aloft relevant to direct radiative forcing off the mid-Atlantic coast of the United States - Hartley, Hobbs, Ross, Russell and Livingston


Comparisons of aerosol optical depths from aircraft and satellites off the East Coast of the United States - Hartley, Hobbs, Stowe, Russell, Livingston


Comparisons of aerosol optical depths from aircraft and satellites off the East Coast of the United States - Hartley, Hobbs, Stowe, Russell, Livingston


A TARFOX case study of the aerosol direct radiative forcing closure problem using aircraft data from the UK Met Office C-130 - Haywood, J.M., Francis, P.N., Hignett, P., and Taylor, J.

Measurement of atmospheric optical parameters on US Atlantic coast sites, ships and Bermuda during TARFOX - A. Smirnov, B.N. Holben, O. Dubovik, N. O'Neill, L. Remer, T. F. Eck, and I. Slutsker

Retrieving the vertical structure of the effective aerosol complex index of refraction from a combination of aerosol in situ and remote sensing measurements during TARFOX (Part 1) - Redemann, Turco, Liou, Russell, Bergstrom, Schmid, Livingston, Hobbs, Hartley, Ismail, Ferrare, Browell

Intercomparison of aerosol properties derived from in-situ data and satellites. Deficiencies and their impact on aerosol direct forcing estimates - Kinne, Russell, Hignett, Bergstrom, Holben, Stowe, Prins, Veefkind, Durkee, Torres, Vermote

A TARFOX case study of the aerosol direct radiative forcing closure problem using aircraft data from the UK Met Office C-130 - Haywood, J.M., Francis, P.N., Hignett, P., and Taylor, J.

LASE measurement of aerosol and water vapor profiles measured during TARFOX - S. Ismail, E.V. Browell, R. Ferrare, S. A. Kooi, M. Clayton, V. Brackett

Case studies of the vertical structure of the direct shortwave aerosol radiative forcing during TARFOX - Redemann, Turco, Liou, Hobbs, Hartley, Bergstrom, Browell, Russell


TARFOX Papers from Conference on Visibility, Aerosols and Global Radiation Balance - September 1997
An Overview of the Tropospheric Aerosol Radiative Forcing Observational Experiment (TARFOX).

Direct Aerosol Radiative Forcing: Calculations and Measurements from the Tropospheric Aerosol Radiative Forcing Observational Experiment (TARFOX).

Paper from IGACtivities Newsletter #11

Sulfate Versus Carbonaceous Materials on the East Coast of the United States: Results from TARFOX.

TARFOX Data Archive

- LASE lidar data
- U. Washington C131A data
- Ames Sunphotometer data from C131A
- Wallops Island meteorological data
- Wallops Island Scanning Mobility Particle Sizer (SMPS)
- Wallops Island Radiosonde

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