

PROCESS AND CLOSURE STUDY DATA SET

Study name: TARFOX (Tropospheric Aerosol Radiative Forcing Observational Experiment)

Time period: 10-31 July 1996

Location: US Eastern seaboard/West Atlantic
~36-40 N, 70-76 W
+ 1 ER-2 flight to Bermuda (~34 N, 64 W)
+ 2 ships, Bermuda-NY (~41 N, 74 W)

Quantities: AOD(λ), sky radiance, total scattering (RH), hemispheric backscattering, lidar backscattering, absorption, size distribution, chemical composition, single scattering albedo, modeled refractive index
[For accuracies, see archived error bars and papers below.]

Chemical type: Water, carbonaceous, sulfate (Hegg et al., 1997; Novakov et al., 1997)

PROCESS AND CLOSURE STUDY DATA SET (Cont'd)

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Closure: Chemical/mass (Hegg et al., 1997)
Scattering/absorption/AOD (Hegg et al., 1997)
Radiative flux/AOD (Hignett et al., 1999; Russell et al., 1999b)

Validations:

MODIS Airborne Simulator AOD(1) (Tanre et al., 1999)

ATSR-2 AOD(1) (Veefkind et al., 1999)

AVHRR, GOES AOD(1) (Durkee et al., 1997)

When available: Now

How: Via LaRC DAAC. See <http://geo.arc.nasa.gov/sgg/tarfox/index.html>