

Table of Contents:

- [1. Data Set Description](#)
- [2. Sample Data Record/Data Format](#)
- [3. References](#)
- [4. Contact Information](#)
- [5. Acknowledgement](#)

1. Data Set Description:

The DOE Gulfstream G-1 aircraft participated in the International Consortium for Atmospheric Research on Transport and Transformation (ICARTT), NorthEast Aerosol eXperiment (NEAX) in July and August, 2004.

Research Areas:

- Process level studies of aerosol/oxidant formation in plumes from various sources.
- Characterization of regional differences in aerosol distribution, composition, and microphysics in relation to aerosol sources and processing history.
- Characterization of the contribution of mid-western sources of aerosols, oxidants and their precursors to O₃/aerosol burdens in the Northeast US

The G-1 operated within about 300 nautical miles from Latrobe, PA from about July 19th - August 15th, 2004. There were a total of 13 flights on twelve different days. Data are reported for both 1 second and averaged 10 second sampling intervals.

This research was performed under sponsorship of the U.S. DOE under contracts DE-AC02-98CH10886.

The general data set should be cited as follows:

Springston, Stephen R., John M. Hubbe, Yin-nan Lee, Jian Wang, and Judith Weinstein-Lloyd. 2005. NARSTO ICARTT NEAX 2004 DOE G-1 Air Chemistry, Aerosol, and Met Data. Available on-line via [NARSTO Data and Information](#) at the Atmospheric Science Data Center at NASA Langley Research Center, Hampton, Virginia, U.S.A.

For citing specific instruments, please contact Stephen R. Springston as listed in Contact Information

2. Sample Data Record/Data Format:

Data files are in the NARSTO Data Exchange Standard (DES) format that is described in detail on the [NARSTO Quality Systems Science Center \(QSSC\) web site](#). The files follow a tabular layout and are stored as ASCII comma-separated values files (.csv). The DES does not rely on row position to identify specific information, but uses a tag to describe the information contained in the row. The DES is a self-documenting format with three main sections: the header contains information about the contents of the file and the data originator; the middle section contains metadata tables that describe/define sites, flags, and other codified fields; and the final section is the main data table that contains key sampling and analysis information and the data values. Descriptions of the standardized metadata fields are also available on the QSSC web site.

3. References:

Please provide PI (srs@bnl.gov) with any publications using these data.

4. Contact Information:



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Data Center:

The User and Data Services office at the Langley Atmospheric Science Data Center is involved throughout the system to monitor the quality of data on ingest, to ensure prompt replies to user questions, to verify media orders prior to filling them, and to ensure that the needs of the users are being met. If you have a problem finding what you need, trouble accessing the system, or need an answer to a question concerning the data or how to obtain data, please contact the User and Data Services staff. Electronic Mail: support-asdc@earthdata.nasa.gov

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5. Acknowledgement:

When data from the Langley Atmospheric Science Data Center are used in a publication, we request the following acknowledgment be included: "These data were obtained from the NASA Langley Research Center Atmospheric Science Data Center".

The Langley Data Center requests a reprint of any published papers or reports or a brief description of other uses (e.g., posters, oral presentations, etc.) of data that we have distributed. This will help us determine the use of data that we distribute, which is helpful in optimizing product development. It also helps us to keep our product-related references current.

Please contact us at support-asdc@earthdata.nasa.gov for instructions on mailing reprints.

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