BOREAS TE-05 CO2 CONCENTRATION AND STABLE ISOTOPE COMPOSITION

Get Data

Summary:

The BOREAS group TE-05 collected measurements in the NSA and SSA on gas exchange, gas composition and tree growth. This data set contains measurements of the concentration and stable carbon (13C/12C) and oxygen (18O/16O) isotope ratios of atmospheric CO2 in air samples collected at different heights within forest canopies. The data were collected to determine the influence of photosynthesis and respiration by the forest ecosystems on the concentration and stable isotope ratio of atmospheric CO2. These measurements were collected at the SSA during each IFC at OJP, OBS, and OA sites. Measurements were also collected at the NSA during each 1994 IFC at the OJP, T6R5S TE UBS, and T2Q6A TE OA sites. The stable isotope ratios are expressed using standard delta notation and in units of per mil. The isotope ratios are expressed relative to the international standard, PDB, for both carbon and oxygen samples.

A guide document which includes more information about this data set can be found at http://daac.ornl.gov/daacdata/boreas/TE/te5airs/comp/TE05_Air_Stable_Iso.txt .

ORNL DAAC maintains information on the entire BOREAS Project.

Data Citation

Cite this data set as follows:

Brooks, J. R., and L. Flanagan. 1998. BOREAS TE-05 CO2 Concentration and Stable Isotope Composition. Data set. Available on-line [http://www.daac.ornl.gov] from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. doi:10.3334/ORNLDAAC/321.

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Data Format:

For information on Parameter/Variable Names, Variable Description/Definition, Units of Measurement, and Data File Format see this companion file http://daac.ornl.gov/daacdata/boreas/TE/te5airs/comp/te5airs.def

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