

BOREAS TGB-03 CH4 and CO2 Chamber Flux Data over NSA Upland Sites

Summary:

The BOREAS TGB-03 team collected methane and carbon dioxide (CH4, CO2) chamber flux measurements at the NSA Fen site, OBS, YJP, and auxiliary sites along Gillam Road and the 1989 burn site. Gas samples were extracted from chambers and analyzed at the NSA lab facility approximately every 7 days during May to September 1994 and June to October 1996.

A guide document which includes more information about this data set can be found at http://daac.ornl.gov/boreas/TGB/tgb3cofd/comp/TGB03_CO2_CH4_UplndFlux.txt.

ORNL DAAC maintains information on the entire [BOREAS Project](#).

Data Citation

Cite this data set as follows:

Moore, T. R., and K. Savage. 1998. BOREAS TGB-03 CH4 and CO2 Chamber Flux Data over NSA Upland Sites. 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/381](https://doi.org/10.3334/ORNLDaac/381).

References:

Bubier, J.L., T.R. Moore, L. Bellisario, N.T. Comer, and P.M. Crill. 1995. Ecological controls on methane emissions from a northern peatland complex in the zone of discontinuous permafrost, Manitoba, Canada. *Global Biogeochemical Cycles*, 9 455-470.

Crill, P.M., K.B. Bartlett, R.C. Harriss, E. Gorham, E.S. Verry, D.I. Sebacher, L. Madzer, and W. Sanner. 1988. Methane flux from Minnesota peatlands, *Global Biogeochemical Cycles*, 2, 371-384.

Daubenmire, R.F. 1968. Plant communities: a textbook of plant synecology. Harper and Row, New York, N.Y.

Moore, T.R. and N.T. Roulet. 1991. A comparison of dynamic and static chambers for methane emission measurements from subarctic fens. *Atmosphere-Ocean*, 29, 102-109.

Roulet, N., S. Hardill and N. Comer. 1991. Continuous measurement of the depth of water table (inundation) in wetlands with fluctuating surfaces. *Hydrological Processes*, 5, 399-403.

- Roulet, N.T. 1991. Surface level and water table fluctuations in a subarctic fen. Arctic and Alpine Research, 23, 303-310.
- Sjors, H. 1950. On the relation between vegetation and electrolytes in Swedish mire waters. Oikos, 2, 241-258.
- Sellers, P. and F. Hall. 1994. Boreal Ecosystem-Atmosphere Study: Experiment Plan. Version 1994-3.0, NASA BOREAS Report (EXPLAN 94).
- Sellers, P. and F. Hall. 1996. Boreal Ecosystem-Atmosphere Study: Experiment Plan. Version 1996-2.0, NASA BOREAS Report (EXPLAN 96).
- Sellers, P. and F. Hall. 1997. BOREAS Overview Paper. JGR Special Issue.
- Sellers, P., F. Hall, and K.F. Huemmrich. 1996. Boreal Ecosystem-Atmosphere Study: 1994 Operations. NASA BOREAS Report (OPS DOC 94).
- Sellers, P., F. Hall, and K.F. Huemmrich. 1997. Boreal Ecosystem-Atmosphere Study: 1996 Operations. NASA BOREAS Report (OPS DOC 96).
- Sellers, P., F. Hall, H. Margolis, B. Kelly, D. Baldocchi, G. den Hartog, J. Cihlar, M.G. Ryan, B. Goodison, P. Crill, K.J. Ranson, D. Lettenmaier, and D.E. Wickland. 1995. The boreal ecosystem-atmosphere study (BOREAS): an overview and early results from the 1994 field year. Bulletin of the American Meteorological Society. 76(9):1549-1577.
- ## **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/boreas/TGB/tgb3cofd/comp/tgb3cofd.def>
- ## **Document Information:**
- 22-Sept-1998 (data set citation revised on 10-Sep-2002)
- ### **Document Review Date:**
- 22-Sept-1998
- ### **Document Curator:**
- webmaster@www.daac.ornl.gov
- ### **Document URL:**

<http://daac.ornl.gov>