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BOREAS TGB-05 DISSOLVED ORGANIC CARBON CONCENTRATIONS FROM NSA BEAVER PONDS

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BOREAS TGB-05 Dissolved Organic Carbon Data from NSA Beaver Ponds

Summary:

The BOREAS TGB-05 team collected several data sets related to carbon and trace gas fluxes and concentrations in the NSA. This data set contains concentrations of dissolved organic and inorganic carbon species from water samples collected at various NSA sites. In particular, this set covers the NSA Tower Beaver Pond Site and the NSA Gillam Road Beaver Pond Site, including data from all visits to open water sampling locations during the BOREAS field campaigns from April to September 1994.

A guide document which includes more information about this data set can be found at http://daac.ornl.gov/daacdata/boreas/TGB/tgb5docd/comp/TGB05_DissOrgC.txt.

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

Data Citation

Cite this data set as follows:

Bourbonniere, R. 1998. BOREAS TGB-05 Dissolved Organic Carbon Data from NSA Beaver Ponds. 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/385](https://doi.org/10.3334/ORNLDAAC/385).

References:

- Aiken, G.R., D.M. McKnight, K.A. Thorn, and E.M. Thurman. 1992. Isolation of hydrophilic organic acids from water using nonionic macroporous resins. *Org. Geochem.*, 18(4):567-753.
- Bourbonniere, R.A. 1989. Distribution patterns of dissolved organic matter fractions in natural waters from eastern Canada. *Org. Geochem*, 14:97-107.
- Bourbonniere, R.A. and T. van Halderen. 1989. Fractional precipitation of humic acid in coloured natural waters. *Water, Air & Soil Pollution*, 46:187-198.
- Bourbonniere, R.A., L.A. Ziolkowski, S.L. Telford, M.A. Moran, K.L. Bushaw, W.L. Miller, M.A. Tarr, and R.G. Zepp. 1995. Character and biogeochemistry of dissolved organic matter in a boreal forest beaver pond near Thompson, Manitoba, Canada. In: *Organic Geochemistry: Developments and Applications to Energy, Climate, Environment and Human History*, J.O. Grimalt and C. Dorronsoro - eds. Published by A.I.O.G.A., Donostia-San Sebastian, SPAIN, 1144-1146.
- Dove, A.E. 1995. Methane dynamics of a northern boreal beaver pond. MSc Thesis, McGill University, Geography, Montreal, QC, 136 pp.
- Leenheer, J.A. 1981. Comprehensive approach to preparative isolation and fractionation of dissolved organic carbon from natural waters and wastewaters. *Environ. Sci. Technol.*, 15:578-587.
- Malcolm, R.L. and P. MacCarthy. 1992. Quantitative evaluation of XAD-8 and XAD-4 resins used in tandem for removing organic solutes from water. *Environ. Internat.*, 18:597-607.
- Sellers, P. and F. Hall. 1994. Boreal Ecosystem-Atmosphere Study: Experiment Plan. Version 1994-3.0, NASA BOREAS Report (EXPLAN 94).
- 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.

Sellers, P. and F. Hall. 1996. Boreal Ecosystem-Atmosphere Study: Experiment Plan. Version 1996-2.0, NASA BOREAS Report (EXPLAN 96).

Sellers, P., F. Hall, and K.F. Huemmrich. 1996. Boreal Ecosystem-Atmosphere Study: 1994 Operations. NASA BOREAS Report (OPSDOC 94).

Sellers, P., F. Hall, and K.F. Huemmrich. 1997. Boreal Ecosystem-Atmosphere Study: 1996 Operations. NASA BOREAS Report (OPSDOC 96).

Sellers, P.J., F.G. Hall, R.D. Kelly, A. Black, D. Baldocchi, J. Berry, M. Ryan, K.J. Ranson, P.M. Crill, D.P. Lettenmaier, H. Margolis, J. Cihlar, J. Newcomer, D. Fitzjarrald, P.G. Jarvis, S.T. Gower, D. Halliwell, D. Williams, B. Goodison, D.E. Wickland, and F.E. Guertin. (1997). "BOREAS in 1997: Experiment Overview, Scientific Results and Future Directions", Journal of Geophysical Research (JGR), BOREAS Special Issue, 102(D24), Dec. 1997, pp. 28731-28770.

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/TGB/tgb5docd/comp/tgb5docd.def>

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