

BOREAS TE-09 Leaf Biochemistry

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Summary:

The BOREAS TE-09 team collected several data sets related to chemical and photosynthetic properties of leaves. This data set contains canopy biochemistry data collected in 1994 in the NSA at the YJP, OJP, OBS, BS and OA sites including biochemistry lignin, nitrogen, cellulose, starch, and fiber concentrations. These data were collected to study the spatial and temporal changes in the canopy biochemistry of boreal forest cover types and how a high-resolution radiative transfer model in the mid-infrared could be applied in an effort to obtain better estimates of canopy biochemical properties using remote sensing.

A guide document which includes more information about this data set can be found at http://daac.ornl.gov/daacdata/boreas/TE/te9bioav/comp/TE09_Biochem.txt.

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

Data Citation:

Cite these data sets as follows:

Margolis, H., M. Charest, and M. Sy. 1998. BOREAS TE-09 Leaf Biochemistry Averages. 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/339.

Margolis, H., M. Charest, and M. Sy. 1998. BOREAS TE-09 Leaf Biochemistry Point Data. 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/340.

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Parkinson, J. A. and S.E. Allen, 1975. A wet oxidation procedures suitable for the determination of nitrogen and mineral nutrients in biological material. *Comm. Soil Sci. Plant Anal* 6: 1-11.

Ryan, M. G., J.M. Melillo, and A. Ricca, 1990. A comparison of methods for determining proximate carbon fractions of forest litter. *Can. J. For. Res.* 20: 166-171.

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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 the companion file <http://daac.ornl.gov/daacdata/boreas/TE/te9bioav/comp/te9bioav.def>.

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