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# BOREAS TGB-12 RADON-222 ACTIVITY DATA OVER THE NSA

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## Summary:

The BOREAS TGB-12 team made measurements of soil carbon inventories, carbon concentration in soil gases, and rates of soil respiration at several sites to estimate the rates of carbon accumulation and turnover in each of the major vegetation types. Sampling strategies for soils were designed to take advantage of local fire chronosequences, so that the accumulation of C in regrowing mosses could be determined. All the data are used to (1) calculate the inventory of C and N in moss and mineral soil layers at NSA sites (2) determine the rates of input and turnover (using both accumulation since the last stand-killing fire and radiocarbon data) and (3) link changes in soil respiration rate to shifts in the <sup>14</sup>C content of soil CO<sub>2</sub> to determine the average 'age' respired CO<sub>2</sub>. These <sup>222</sup>Rn activity data were collected from 15-NOV-1993 to 16-AUG-1994 over the NSA sites.

A guide document which includes more information about this data set can be found at [http://daac.ornl.gov/daacdata/boreas/TGB/tgb12rad/comp/TGB12\\_RadonActivity.txt](http://daac.ornl.gov/daacdata/boreas/TGB/tgb12rad/comp/TGB12_RadonActivity.txt).

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

## Data Citation

Cite this data set as follows:

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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/TGB/tgb12rad/comp/tgb12rad.def>

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