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# BOREAS NS001 TMS LEVEL-2 IMAGES: REFLECTANCE AND TEMPERATURE IN BSQ FORMAT

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## BOREAS NS001 TMS Level-2 Images: Reflectance and Temperatures in BSQ Format

### Summary:

For BOREAS, the NS001 TMS images, along with the other remotely sensed data, were collected to provide spatially extensive information over the primary study areas. This information includes detailed land cover and biophysical parameter maps such as fPAR and LAI. Collection of the NS001 images occurred over the study areas during the 1994 field campaigns. The Level-2 NS001 data are atmospherically corrected versions of some of the best original NS001 imagery and cover the dates of 19-Apr-1994, 07-Jun-1994, 21-Jul-1994, 08-Aug-1994, and 16-Sep-1994. The data are not geographically/geometrically corrected; however, files of relative X and Y coordinates for each image pixel were derived by using the C130 INS data in an NS001 scan model. The data are provided in binary image format files. Note also that the top portion of the ASCII header file in each Level-2 NS001 image product indicates that the band 8 data are 'Scaled Reflectance' when in fact they are 'Scaled Temperatures.'

A guide document which includes more information about this data set can be found at [http://daac.ornl.gov/daacdata/boreas/STAFF/ns0012bq/comp/NS001\\_L2.txt](http://daac.ornl.gov/daacdata/boreas/STAFF/ns0012bq/comp/NS001_L2.txt).

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

### Data Citation

Cite this data set as follows:

Lobitz, B., and R. Strub. 1999. BOREAS NS001 TMS Level-2 Images: Reflectance and Temperatures in BSQ Format. 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/482.

### References:

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. 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* 102 (D24): 28, 731-28,770.

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### Data Format:

There is no data format file for this dataset.

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