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# BOREAS LANDSAT TM LEVEL-3S IMAGERY: SCALED AT-SENSOR RADIANCE IN LGSOWG FORMAT

## Get Data

### Summary:

For BOREAS, the level-3s Landsat TM data, along with the other remotely sensed images, were collected in order to provide spatially extensive information over the primary study areas. This information includes radiant energy, detailed land cover, and biophysical parameter maps such as FPAR and LAI. CCRS collected and supplied the level-3s images to BOREAS for use in the remote sensing research activities. Geographically, the bulk of the level-3s images cover the BOREAS NSA and SSA with a few images covering the area between the NSA and SSA. Temporally, the images cover the period of 22-Jun-1984 to 30-Jul-1996.

Companion files include (1) an image inventory listing to inform users of the images that are available and (2) example thumbnail images that may be viewed using a convenient viewer utility.

A guide document which includes more information about this data set can be found at [http://daac.ornl.gov/daacdata/boreas/STAFF/lrm\\_ii3s/comp/LANDSAT\\_TM\\_L3S.txt](http://daac.ornl.gov/daacdata/boreas/STAFF/lrm_ii3s/comp/LANDSAT_TM_L3S.txt).

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

### Data Citation

Cite this data set as follows (citation revised on October 29, 2002):

Newcomer, J. A., and J. Cihlar. 1999. BOREAS Landsat TM Level-3s Imagery: Scaled At-Sensor Radiance in LGSOWG Format. ORNL DAAC, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDAAC/427>

### References:

Sellers, P., F. Hall. 1994. Boreal Ecosystem-Atmosphere Study: Experiment Plan. Version 1994-3.0, NASA BOREAS Report (EXPLAN 94).

Sellers, P., 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 (OPS DOC 94).

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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.

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### Data Format:

For information about the image inventory dataset including Parameter/Variable Names, Variable Description/Definition, Units of Measurement, and Data File Format see this companion file [http://daac.ornl.gov/daacdata/boreas/STAFF/lrm\\_ii3s/comp/lrm\\_ii3s.def](http://daac.ornl.gov/daacdata/boreas/STAFF/lrm_ii3s/comp/lrm_ii3s.def)

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