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BOREAS RSS-19 1994 CASI AT-SENSOR RADIANCE AND REFLECTANCE IMAGES

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Summary:

The RSS-19 team collected CASI images from the Chieftain Navaho aircraft in order to observe the seasonal change in the radiometric reflectance properties of the boreal forest landscape. CASI was deployed as a site-specific optical sensor during BOREAS field campaigns. Image data were collected with CASI on 36 days during five field campaigns between February and September 1994, primarily at flux tower sites located at study sites near Thompson, Manitoba, and Prince Albert, Saskatchewan. A subset of the data is available from the BOREAS Information System (BORIS). Radiance and at-ground modeled reflectance images have been provided. This subset corresponds to the data for CASI MISSION3 described in Section 4.1.3 (of the complete guide document). A variety of CASI data collection strategies were used to meet the following scientific objectives: 1) canopy bidirectional reflectance, 2) canopy biochemistry, 3) spatial variability, and 4) estimates of up and downwelling PAR and spectral albedo, as well as changes along transects across lakes and transects NSA and SSA. The images are stored as binary image files.

A guide document which includes more information about this data set can be found at http://daac.ornl.gov/daacdata/boreas/RSS/r19cas94/comp/RSS19_CASI_1994.txt.

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

Data Citation

Cite this data set as follows:

Miller, J. R., and J. R. Freemantle. 2000. BOREAS RSS-19 1994 CASI At-sensor Radiance and Reflectance Images. 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/537.

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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/RSS/r19cas94/comp/r19cas94.def>

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