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BOREAS RSS-17 DIELECTRIC CONSTANT PROFILE MEASUREMENTS

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Summary:

The BOREAS RSS-17 team acquired and analyzed imaging radar data from the ESA's ERS-1 over a complete annual cycle at the BOREAS sites in Canada in 1994 to detect shifts in radar backscatter related to varying environmental conditions. This data set consists of dielectric constant profile measurements from selected trees at various BOREAS flux tower sites. The relative dielectric constant was measured at C-band (frequency = 5 GHz) as a function of depth into the trunk of three trees at each site. Measurements were made during April 1994 with an Applied Microwave Corporation field PDP fitted with a 0.358-cm (0.141-inch) diameter coaxial probe tip.

A guide document which includes more information about this data set can be found at http://daac.ornl.gov/daacdata/boreas/RSS/rs17diel/comp/RSS17_Dielectric_Prof.txt.

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

Data Citation

Cite this data set as follows:

Way, J., K. McDonald, and R. Zimmermann. 1998. BOREAS RSS-17 Dielectric Constant Profile Measurements. 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/301.

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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/rs17diel/comp/rs17diel.def>

Document Information:

07-Dec-98 (data citation revised on 26-Sep-2002)

Document Review Date:

07-Dec-98

Document Curator:

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Document URL:

<http://daac.ornl.gov>



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