

BOREAS/SRC AMS Surface Meteorological and Radiation Data

Summary:

The Saskatchewan Research Council (SRC) collected surface meteorological and radiation data from December 1993 until December 1996. The data set comprises the Suite A (meteorological and energy balance measurements) and Suite B (diffuse solar and longwave measurements) components. Suite A measurements were taken at each of ten sites, and Suite B measurements were made at five of the suite A sites. These data cover an area of roughly 1000 km by 1000 km (a large portion of northern Manitoba and northern Saskatchewan). The measurement network was designed to provide researchers with a sufficient record of near-surface meteorological and radiation measurements.

A guide document which includes more information about these data sets can be found at http://daacs.esd.ornl.gov/boreas/AFM/samsa94d/comp/AFM07_SRC_AMS.txt.

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

Data Citation:

Cite these data sets as follows:

Osborne, H., K. Young, V. Wittrock, and S. Shewchuck. 1998. BOREAS/SRC AMS Suite A Surface Meteorological and Radiation Data: 1994. 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/462.

Osborne, H., K. Young, V. Wittrock, and S. Shewchuck. 1998. BOREAS/SRC AMS Suite A Surface Meteorological and Radiation Data: 1995. 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/463.

Osborne, H., K. Young, V. Wittrock, and S. Shewchuck. 1998. BOREAS/SRC AMS Suite A Surface Meteorological and Radiation Data: 1996. 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/464.

Osborne, H., K. Young, V. Wittrock, and S. Shewchuck. 1998. BOREAS/SRC AMS Suite B Surface Meteorological and Radiation Data: 1994. 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/410.

Osborne, H., K. Young, V. Wittrock, and S. Shewchuck. 1998. BOREAS/SRC AMS Suite B Surface Meteorological and Radiation Data: 1995. 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/411.

Osborne, H., K. Young, V. Wittrock, and S. Shewchuck. 1998. BOREAS/SRC AMS Suite B Surface Meteorological and Radiation Data: 1996. 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/412.

References:

Shewchuk, S.R. 1996. The Surface Atmospheric Science Mesonet for BOREAS. Submitted to Journal of Geophysical Research, Washington. In press. Saskatchewan Research Council [SRC] Pub. No. E-2310-1 A-96, SRC, Saskatoon, Saskatchewan.

Shewchuk, S.R. 1996. An Overview of the Climatology for the Intensive Field Campaign Years of 1994 and 1995 at a Selected BOREAS/SRC Mesonet Site. Draft. Saskatchewan Research Council [SRC] Pub. No. R-1570-2-D-96, SRC, Saskatoon, Saskatchewan.

Shewchuk, S.R. 1996. The Mesoscale Distribution of Soil Moisture over the SRC/NASA Mesonet Sites for the IFC 2 Periods of 1994. Draft. Saskatchewan Research Council [SRC] Pub. No. R-1570-1-D-96, SRC, Saskatoon, Saskatchewan.

Shewchuk, S.R. 1995 The Surface Mesoscale Meteorological System for BOREAS/ Abstract. Saskatchewan Research Council [SRC] Pub. No. E-2310-1-D-95, SRC, Saskatoon, Saskatchewan.

Shewchuk, S.R. 1994. Atmospheric Science Infrastructure Measurements for BOREAS. Saskatchewan Research Council [SRC] Pub. No. E-2310-3-E-94, SRC, Saskatoon, Saskatchewan.

Shewchuk, S.R. 1994. Atmospheric Sciences Surface MESONET Infrastructure Core Measurements for BOREAS. Saskatchewan Research Council [SRC] Pub. No. E-2300-7-F-94, SRC, Saskatoon, Saskatchewan.

Wittrock, V. 1994. Examination of the Matrix Water Potential Sensor. Saskatchewan Research Council [SRC] Pub. No. E-2310-4-E-94, SRC, Saskatoon, Saskatchewan.

Shewchuk, S.R. 1993. Atmospheric Sciences Infrastructure Core Measurements for BOREAS. Saskatchewan Research Council [SRC] Pub. No. E-2300-6-F-92, SRC, Saskatoon, Saskatchewan.

Data Format:

For information on Parameter/Variable Names, Variable Description/Definition, Units of Measurement, and Data File Format see these companion files for example

<http://daac.ornl.gov/boreas/AFM/samsa94d/comp/samsa94a.def>

<http://daac.ornl.gov/boreas/AFM/samsb94d/comp/samsb94a.def>

Document Information:

Document Revision Date:

02-Jun-1998 (data set citation revised on 12-Sep-2002)

Document Review Date:

02-Jun-1998

Document Curator:

webmaster@daac.ornl.gov

Document URL:

http://daac.ornl.gov/BOREAS/guides/AFM07_SRC_AMS.html

Revision Date: Wednesday, 23-Jun-2010 12:20:49 EDT