BOREAS FOLLOW-ON MOD-01 REGIONAL DAILY AVERAGED GRIDDED MET. DATA, 1994-1996
Get Data

Summary:

The regional data set provided by the HMet-02 Team and described in HMet-02 Area and Regional Hourly Gridded Met. Data, 1994-1996, on an hourly time step have been converted to averaged daily files by the MOD-01 group to reduce the size and number of files used for input to some of the carbon models.

Data Citation:

Cite this data set as follows (citation revised on October 30, 2002):

Genovese, V. B., and V. Pauwels. 2001. BOREAS Follow-On MOD-01 Regional Daily Averaged Gridded Met[eorological] Data, 1994-1996. 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.

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Processing:

The regional data set provided by the HMet-02 Team and described in HMet-02 Area and Regional Hourly Gridded Met. Data, 1994-1996, on an hourly time step, have been converted to averaged daily files by the MOD-1 group to reduce the size and number of files used for input to some of the carbon models. Note that the daily data files contain floating point values rather than 16-bit integers. Below is a table that describes how the hourly Phase 3 meteorological variables were summarized to daily values. Note that some of the data files have been compressed using Zip compression.

Variable Abbreviation	Variable Name	Units	Method of Summary
Ta	Air Temperature	degrees C	min/max/average
Td	Dew Point Temperature	degrees C	average
Ud	Wind Direction	degrees from true North	average

U	Wind Speed	meters/sec	average
Pres	Air Pressure	kPa	average
Rsi	Incoming Shortwave Radiation	Watts/meter^2	average of values > 0
Lwi	Incoming Longwave Radiation	Watts/meter^2	average of values > 0
Precip	Precipitation	mm/day	total

File Information:

The daily average gridded data for each variable for a year have been compressed in the following Zip files:

ta_94_avg_day.zip ta_95_avg_day.zip ta_96_avg_day.zip

ta_94_max_day.zip ta_95_max_day.zip ta_96_max_day.zip

ta_94_min_day.zip ta_95_min_day.zip ta_96_min_day.zip

ud_94_day.zip ud_95_day.zip ud_96_day.zip

u_94_day.zip u_95_day.zip u_96_day.zip

pres_94_day.zip pres_95_day.zip pres_96_day.zip

rsi_94_day.zip rsi_95_day.zip rsi_96_day.zip

lwi_94_day.zip lwi_95_day.zip lwi_96_day.zip

precip_94_day.zip precip_95_day.zip precip_96_day.zip

Each Zip archive file contains 365(6) daily averaged gridded files. Each file name has the following structure:

yy-mm-dd_VariableAbbreviation_day.bin

where yy is the two-digit year, mm is the 2-digit month, dd is the 2-digit day, and VariableAbbreviation is the variable as listed in the preceding table. Day is the averaging period. Note the avg, max, and min variations for Air Temperature.

The data are stored as 4-byte binary float images, one image per day per variable (the data may need to be byte swapped to display correctly). The regional grid is 66 columns by 60 rows.

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Keywords:
ECMWF
Surface Pressure
Surface Temperature
Surface Flux
Precipitation
Albedo
Wind direction
Wind speed
Radiation
GOES Images

Return to top of document.
