

# ORNL DAAC BOREAS ECMWF 6-HOUR ANALYSIS AND FORECAST DATA

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### Summary:

In cooperation with BOREAS atmospheric research efforts, the ECMWF agreed to provide BOREAS with a customized subset of its 6-hourly forecast data. This data set contains parameters from three ECMWF data products: Surface and Diagnostic Fields, Supplemental Fields, and Extension Data. Some sample software files are included to help read the data files. Temporally, the atmospheric parameters are available for the four main synoptic hours of 00, 06, 12, and 18 UTC from 1994 to 1996. Spatially, the data are stored in a 0.5-by-0.5-degree latitude/longitude grid. To cover the entire BOREAS study area, the grid extends from 48 to 62 degrees latitude and -92 to -114 degrees longitude. The data are stored in binary files whose format is described in the ECMWF publication Encoding and Decoding GRIB data, a copy of which is included as a PDF file on the BOREAS CD-ROM set.

Based on agreements between BOREAS and ECMWF, users may legally obtain and use these data only by having a set of the BOREAS CD-ROMs that contain the data. Possession or use of these data under any other circumstance is prohibited. See Sections 11.3 of the companion guide document for details.

Users are advised to carefully read Section 6.1, which discusses model changes and known errors, before using data.

A guide document which includes more information about this data set can be found at <http://daac.ornl.gov/boreas/STAFF/ecmwf/comp/ECMWF.txt>.

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

### Data Citation

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

BOREAS Staff Science. 2000. BOREAS ECMWF 6-Hour Analysis and Forecast Data. Data set. Available with restrictions from Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. [<http://www.daac.ornl.gov>].

### References:

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### **Data Format:**

There is no data format file for this dataset.

### **Document Information:**

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