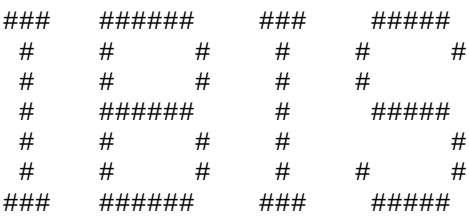
README-1st.txt last update 03/15/01 (Dierk Polzin)



Integrated BIosphere Simulator

AGREEMENT

In giving you the IBIS code, we ask you to agree to the following:

1. In publications resulting from your use of the IBIS code please acknowledge us and cite the appropriate papers:

Foley, J.A. et al., 1996: An integrated biosphere model of land surface processes, terrestrial carbon balance, and vegetation dynamics. Global Biogeochemical Cycles, Vol.10, No.4, pages 603-628.

Kucharik, C.J. et al., 2000: Testing the performance of a dynamic global ecosystem model: Water balance, carbon balance and vegetation structure. Global Biogeochemical Cycles 14(3), 795-825.

We would also appreciate a copy of your publication so we stay informed about the uses of the model. Send printed copies to

Jonathan Foley
Climate, People, and Environment Program
University of Wisconsin-Madison
1225 West Dayton Street
Madison, WI 53706-1695
USA

2. In order to keep track of where the code is, who is using which version, and what it is being used for, we request that you not distribute the code to any other persons or groups. Any requests you receive for the code can be forwarded to Jonathan Foley at (608) 265-5144, or email jfoley@facstaff.wisc.edu. See also the CPEP web site: http://cpep.meteor.wisc.edu

3. In an effort to keep the model up to date and in the most useful form, we would like feedback from you. If you make any substantial changes to the code please let us know. Your change may be one that should be incorporated in the next version of the code. The code is in constant development and feedback from you will help us improve the code for your future use as well as the use of others. If you experience any problems with the model or have any questions please donot hesitate to contact us. If you think you have found a bug, please call Jonathan Foley at (608) 265-5144, or email him at jfoley@facstaff.wisc.edu.

4. The standard disclaimer applies.

Thank you for your cooperation.

MODES

This version of IBIS can be compiled and run in only one:
* NetCDF input/output on a Unix/Linux computer

If you plan to run IBIS on a Unix/Linux platform, but are not familiar with netCDF, we recommend that you look in the documentation of your visualization software to see if it is supported.

We have successfully run IBIS in netCDF mode on SGI, Sun, and Linux workstations. If you successfully port IBIS to any other platform or popular i/o format, we'd really like to know about it. Please let us know if you needed to do anything special to get it to compile and run.

To learn details of compiling/running IBIS, read
* READMEnet.txt for Unix/Linux netCDF mode
The file 'makefile' shows the file dependencies.

The file 'READMEnotes.txt' has some notes about certain parameter choices for the model. Please read this note, and make parameter choices based on your specific situation.

TEST DATA

We provide some nonsense test files at 10x10 degree resolution that you may use in order to test whether your compilation of ibis works or not. Please download input10-nc.tar.gz and ungzip and untar it.

You'll have the 13 files you need to run ibis (make sureyour value for nanom in ibis.infile or ibismac.infile is large).

Place the files in the subdirectory 'input'. Don't expect to have meaningful results from using this data as ibis input - they are just some numbers we made up. You should not, however, crash the program, core dump, or get NaN's (not-a-number) or Inf's (infinity) using this input.

You may also use the test files as templates to guide you in creating your own input data. Due to the proprietary nature of some of the climate data we have, we cannot freely distribute all of our input files. This test data, however, can be freely modified or given away to anyone.

Good Luck!