



DAAC
for biogeochemical dynamics
DISTRIBUTED ACTIVE ARCHIVE CENTER Oak Ridge National Laboratory



ORNL DAAC News

WINTER 2007

The ORNL Distributed Active Archive Center (DAAC) is a NASA-sponsored source for biogeochemical and ecological data and services useful in environmental research. The ORNL DAAC currently archives and distributes more than 760 data sets categorized as Field Campaign, Land Validation, or Regional and Global Data.

Please visit us online at <http://daac.ornl.gov/> for a comprehensive description of data, services, and tools available from the ORNL DAAC. Archived news can be found at <http://daac.ornl.gov/news.shtml>

New Data from Field Campaigns

During the past six months the ORNL DAAC has archived and begun distributing a number of new datasets associated with the SAFARI 2000 and LBA field campaigns.

The SAFARI 2000 field campaign was conducted during 1999-2001 and is an international science initiative to study the linkages between land and atmosphere processes in the Southern African regions:

Sampling in the Amazon basin. (LBA Project, courtesy of Michael Keller.)



Amazon basin fire causes leaf shedding and opens the forest canopy, increasing the risk of future burns. (LBA Project, courtesy of Michael Keller.)

- "SAFARI 2000 MOPITT Tropospheric Carbon Monoxide, Southern Africa, Dry Season 2000" - Daily average CO concentrations are reported at 1x1 degree resolution for daytime swaths at 2 heights, 350 and 700 hPa, for the dry season, August 1-September 30, 2000.
- "SAFARI 2000 MODIS L3 Albedo and Land Cover Data, Southern Africa, Dry Season 2000" - This filled Land Surface albedo product covers 7 sixteen-day time periods from July 11 through October 15, 2000.
- "SAFARI 2000 Solar Spectral Flux Radiometer Data, Southern Africa, Dry Season 2000" - The data are provided for the time period August 17 through September 15, 2000

(continued on p. 2)

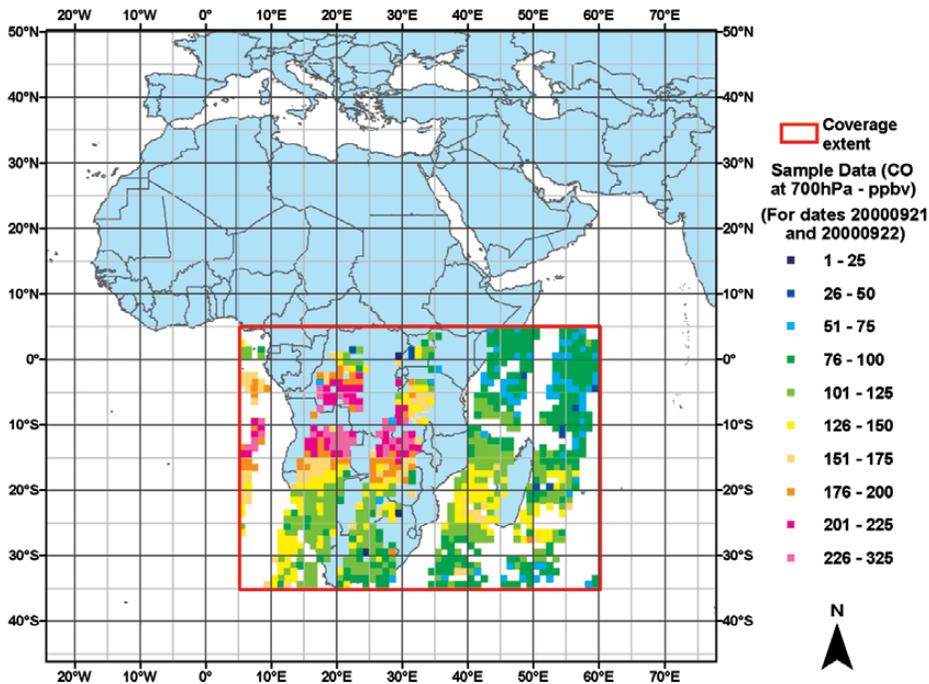


MANAGED BY UT-BATTELLE FOR THE DEPARTMENT OF ENERGY

New Data (continued)

The Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) Project, an international research initiative, is focused on the climatological, ecological, biogeochemical, and hydrological functions of Amazonia; the impact of land use change on these functions; and the interactions between Amazonia and the Earth system:

- "LBA-ECO TG-07 Forest Structure Measurements for GLAS Validation: Santarem 2004"
- "LBA-ECO LC-23 ASTER and MODIS Fire Data Comparison for Brazil: 2003-2004"



SAFARI 2000 MOPITT Tropospheric Carbon Monoxide Dry Season 2000 data.

Faces of the ORNL DAAC

Ever wondered about who the people are behind the ORNL DAAC? The ORNL DAAC is the work of nine-

teen people. Robin Graham is the current DAAC manager. A forest ecologist by training, she has done regional



The DAAC team in January 2007. L to R: Bruce Wilson, Jerry Yun Pan, Jon Grubb, Bob Cook, Ben McMurray, Robin Graham, Les Hook, Susan Holladay, Giri Palanisamy, Karen Gibson, Jim Greene, Tammy Beaty, Upendra Dadi, Suresh Kumar Santhana Vannan, Ranjeet Devarakonda, Latha Baskaran.

analysis and served in several Oak Ridge National Laboratory management roles, she took on the position in November 2005, replacing Larry Voorhees, the founding ORNL DAAC manager. Lee Ann Hughes and Karen Gibson provide

(continued on p. 3)

DAAC Faces (continued)

support in managing budget and cost reporting and manning the DAAC user services office.

Bob Cook, a biogeochemist, is the DAAC Scientist, and is responsible for interfacing with the scientists who supply our data and for ensuring that the DAAC's data is useful for global change research (well documented, easily found, and readily used). Bob also works closely with our User Working Group, a team of outside scientists who help prioritize DAAC activities. Supporting Bob in his efforts are Les Hook, Tammy Beaty, Latha Baskaran, Carroll Curtis, and Susan Holladay. If you have questions about submitting a data set or using one of our archived

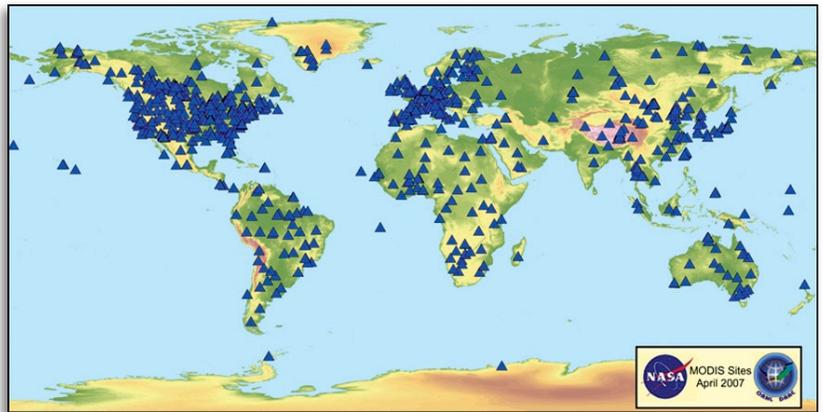
data products, you will probably get your answer from one of these folks.

Bruce Wilson, an informatics specialist, is the DAAC engineer. He joined the DAAC in June of 2006 coming from industry where he led a chemoinformatics group. He is supported in systems development, operations, and maintenance by Giri Palanisamy, Suresh Santhana-Vannan, Jerry Pan, Ben McMurry, Dave Sill, Ranjeet Devarakonda, Upendra Dadi, Jon Grubb, and Jim Green. Suresh is the person leading our MODIS subsetting and WebGIS efforts, while Giri is leading the redesign of our Mercury metadata search tool.

Subsets of the New MODIS Land Products

The ORNL DAAC now offers subsets of the latest version of MODIS Land products for selected field sites from around the world. The subsets are available in ASCII format from our Web site: <http://daac.ornl.gov/MODIS/modis.html>

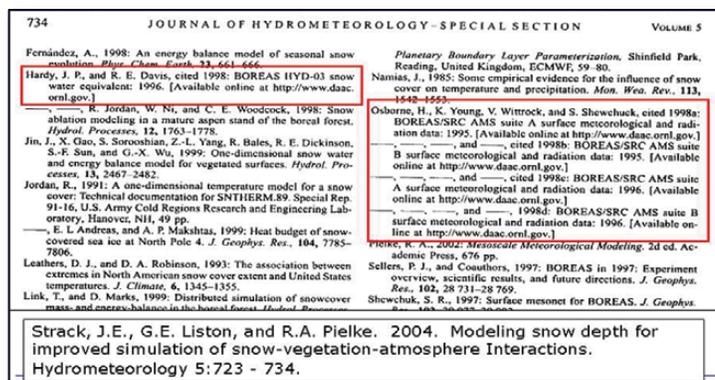
In addition to using quality criteria to show subsets at a particular time period and for a time series for the entire MODIS period of record, we have expanded our advanced tool to allow users to select their own quality control criteria from all of possible values. We will offer GeoTIFF images of the subsets along with a WebGIS that will enable viewing in sinusoidal production. These subsets are targeted for field researchers to use for validation of



MODIS Collection 5 sites.

models and remote-sensing products and to characterize field sites.

The ORNL DAAC is developing a tool that will enable users to select subsets from any site on earth, for user-selected areas up to 201 x 201 km. This tool will be available during Summer 2007.



Citing ORNL DAAC Data

To acknowledge the scientists who have provided products, we request that you include a bibliographic citation to all ORNL DAAC products

(continued on back)

Example of paper that cites DAAC data.



Citing Data (continued from p. 3)

that you use in your publications. Such citations will help others find the products and see how they have been used.

Refer to the data set documentation for suggested forms of citation, or refer to our on-line guidance: http://daac.ornl.gov/citation_style.html

ORNL DAAC also requests that users send us a reprint or the reference citation of any publication that was supported by data received from the ORNL DAAC.

If you have published data that you wish to archive and make available to the scientific community, please contact User Services to discuss the content, form, and size of the data set. A list of guidelines for submitting data in electronic format is available on the Internet: http://daac.ornl.gov/PI/pi_info.html

ACCESSING ORNL DAAC DATA

Web-based interface:
<http://daac.ornl.gov/>

Advanced data search:
<http://mercury.ornl.gov>

Anonymous FTP browsing:
<ftp://daac.ornl.gov/data/>

EOSDIS Data Gateway: search all DAACs at
<http://eos.nasa.gov/imswelcome>

User Services Office: ornldaac@ornl.gov

All data from the DAAC are free and are available electronically.

National Aeronautics and Space Administration:
<http://www.nasa.gov>

ORNL Distributed Active Archive Center
P.O. Box 2008, MS 6407
Oak Ridge National Laboratory
Oak Ridge, TN 37831-6407

