

Data Streams is a periodic newsletter from the Goddard Distributed Active Archive Center, Code 902.2, NASA Goddard Space Flight Center, Greenbelt, MD 20771 USA.

<http://daac.gsfc.nasa.gov/>

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## GLOBAL CHANGE INDICATORS

See picture inside.



## JOIN OUR READERS

To receive future issues of Data Streams, contact our Help Desk.

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# Data Streams

A Periodic Newsletter from the  
Goddard DAAC

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## The Goddard DAAC Climatological Interdisciplinary Data Collection

Three important interdiscipline data assemblages are presently available at the Goddard DAAC for seasonal and interannual studies. They are maintained by the Interdiscipline Data Collection Team. This team was set up in summer 1995 to develop the Climatology Interdiscipline Data Collection (CIDC). They inherited two existing older data collections: the Greenhouse Effect Detection Experiment (GEDEX) collection and the International Satellite Land Surface Climatology Project I (ISLSCP-I): Initiative I Collection. The GEDEX and ISLSCP-I were one-time efforts and the data sets are now frozen.

The newer Climatological Interdisciplinary Data Collection consists primarily of monthly means and is dynamic; over time new data sets will be added while old data sets may be extended, revised, or deleted if outdated. At present it consists of 25 data sets containing 130 parameters. Four of the data sets cover over 100 years and another five are over 10 years long. The parameters can be grouped into 68 physical parameter types, and cover fields such as atmospheric dynamics and

soundings, radiation and clouds, the biosphere (ocean and land), ozone and greenhouse gases, surface temperature, hydrology, and reflection and emission patterns. The data are available from one site and are, as far as practicable, presented in a common format (monthly means with a  $1^\circ \times 1^\circ$  or commensurable resolution). Monthly means are included from the Goddard Data Assimilation Office assimilated atmospheric dynamics data, TOVS Pathfinder A atmospheric soundings, and International Satellite Cloud Climatology Project (ISCCP) clouds, TOMS Ozone and AVHRR Normalized Difference Vegetation Index (NDVI).

### User Response

Counting only logons that took something from the CIDC site, in 1996 there were 4856 logons by 1599 distinct users and 24,582 files were distributed. Through March 1977 there have been 1312 logons, 424 distinct users, and 13,815 files distributed. Surveys of our users indicate that many save from days to months

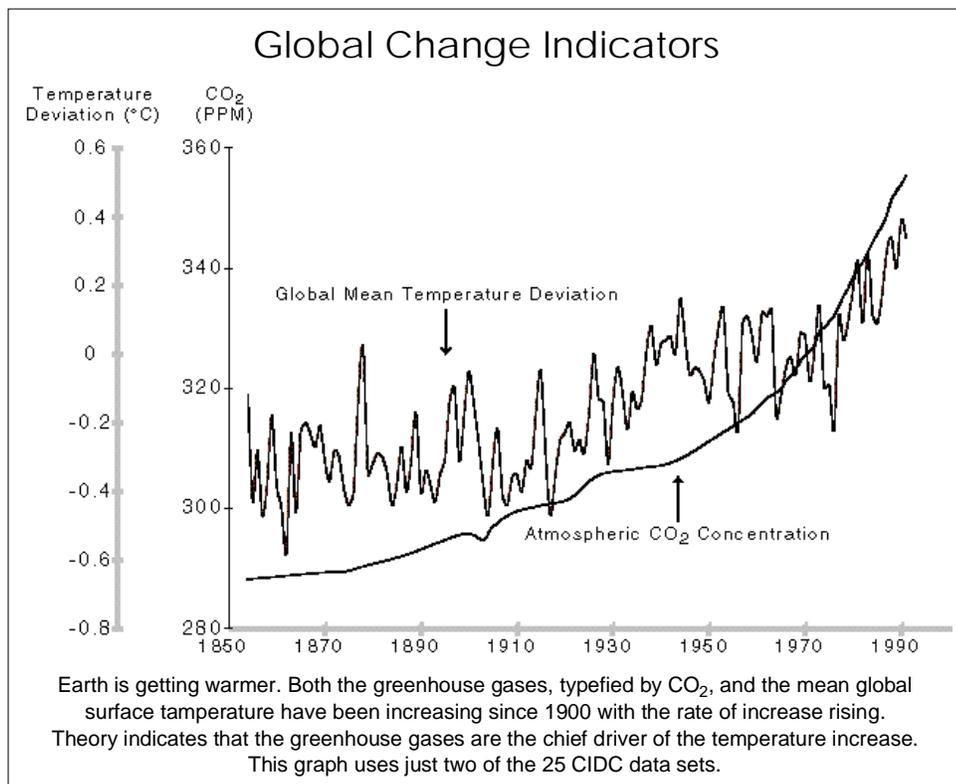
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# INTERDISCIPLINARY SPECIAL ISSUE

by using data from the CIDC for their studies. The time saving arises because in the CIDC monthly averages from many different data sets are collected together and arranged in a common format on a common world grid and are well documented. They use the data for both educational and scientific research purposes.

### CIDC Team Conference Activity

In 1997 the Interdiscipline Team has been represented at several major science meetings: American Meteorological Society, February 2–7, Long Beach, CA; Satellite Applications Conference, March 4–6, Asheville, NC; American Association of Geography, April 1–5, Fort Worth, TX; and American Geophysical Union, May 27–30, Baltimore, MD. This summer the Team plans to issue a CD-ROM version of the CIDC data.



### From Our Users

I am very impressed with your Web site and prompt supplies. It is a unique and much needed service. Thank you.  
Simon Jones, University of Leicester, UK

It (the CIDC data) is very easy to use, and thank you, thank you, thank you for using flat files (no HDF).  
Watson Gregg, NASA Goddard Space Flight Center

The more data the better! The standard format global sets are great. Each set lends itself to a different kind of activity and set of questions about the environment. IDL widgets are a great programming interface for creating interactive data exploration activities. THANKS FOR THE PRODUCTS!!  
David Snyder, Gallaudet University

## Goddard DAAC Outreach Activities for Education

The Goddard DAAC presented five teacher (grades 6–14) workshops and distributed educational materials at a booth for the Satellites and Education Conference IX in West Chester, PA (March 12–14). Carla Evans and Ned Horning conducted four workshops on the remote sensing tutorial and freeware for the first in a series of Earth System Science educational products being developed on the topics of ozone, global vegetation, and ocean color. Dr. Blanche Meeson conducted a workshop on interpreting satellite images of TOMS total column ozone data, AVHRR NDVI data, and CZCS ocean color data. Over 300 pieces were distributed including Mission to Planet Earth Fact Sheets and 1997 Fact Book, NASA lithographs, DAAC materials, and the TOMS ozone CDs. There were about 300 registered participants and about 45 participants at our workshops.

Two new workshops were conducted by the Goddard DAAC at the NSTA National

Convention in New Orleans (April 3–6). About 125 educators attended. The first one focused on the use of remote sensing data and information (grades 6–12) and was carried out in partnership with the NASA MITPE Discover Earth Program. The second workshop featured the first in a series of Earth System Science education products being developed on the topic of stratospheric ozone. These products are designed, developed, tested, and evaluated in conjunction with Earth science educators and scientists.

On April 12, the Goddard Teacher Resource Lab conducted a Mission to Planet Earth Remote Sensing Workshop for Middle and High School Educators. The Goddard DAAC presented an introduction to remote sensing of Earth and then conducted a hands-on activity to create images of the TOMS ozone data over the South Polar region and computer activities using the Nimbus-7 TOMS total column ozone data.

## The Goddard DAAC Prepares for SeaWiFS Data

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The new era in ocean color data availability that dawned in August 1996 with the launch of the Ocean Color and Temperature Scanner (OCTS) on the Japanese MIDORI satellite (also called ADEOS) will continue at a rapid pace with the launch of SeaWiFS in 1997 and MODIS in 1998. To get ready for this exciting period, the Goddard DAAC is adding several new features to its Ocean Color Data and Resources Website at

[http://daac.gsfc.nasa.gov/CAMPAIGN\\_DOCS/OCDST/OB\\_main.html](http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/OCDST/OB_main.html)

The most important new addition is the WWW SeaWiFS Browser, which is now fully operational and being extensively user tested in May 1997 in anticipation of an early summer SeaWiFS launch. Over 40 gigabytes of simulated SeaWiFS data have been transferred from the SeaWiFS Project and archived at the Goddard DAAC since September 1996. These simulated data may be accessed, viewed, and ordered from the DAAC via the SeaWiFS Browser. The SeaWiFS Browser can be accessed at

[http://daac.gsfc.nasa.gov/CAMPAIGN\\_DOCS/BRS\\_SRVR/seawifsbrs\\_main.html](http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/BRS_SRVR/seawifsbrs_main.html)

The SeaWiFS Browser operation is based on the Goddard DAAC's CZCS Browser, which allows users to view browse images and order specific CZCS scenes of interest. The SeaWiFS Browser is augmented with several new options that allow users to visually examine the various types of SeaWiFS data products. These data products include ground station (HRPT) data at 1 km resolution, North Pole to South Pole swaths of 4 km resolution data, and global composite data combined over daily, weekly, monthly, and annual intervals and mapped to a global grid. Users may also specify Level 1 (radiance) data or Level 2 (geophysical products) data.

SeaWiFS data flow will start 45–60 days postlaunch, following satellite degassing and orbit raising. When data restrictions go into effect, only Authorized Users will be able to access the SeaWiFS data. However, the first 90 days of SeaWiFS data will be freely available to anyone and the SeaWiFS Browser password controls have been turned off

allowing all users to obtain these simulated data until restrictions go into place.

For a short explanation of the SeaWiFS data products, read the SeaWiFS Product Information Page at

[http://daac.gsfc.nasa.gov/CAMPAIGN\\_DOCS/BRS\\_SRVR/seawifsbrs\\_info.html](http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/BRS_SRVR/seawifsbrs_info.html)

The SeaWiFS data product suite is further described at the following URL of the SeaWiFS Project.

[http://seawifs.gsfc.nasa.gov/SEAWIFS/SOFTWARE/DATA\\_PRODUCTS.html](http://seawifs.gsfc.nasa.gov/SEAWIFS/SOFTWARE/DATA_PRODUCTS.html)

While visiting the SeaWiFS Project, no one should pass up the chance to view the latest data from OCTS, which can be accessed from the SeaWiFS Project Home Page.

[http://seawifs.gsfc.nasa.gov/seawifs\\_scripts/octs\\_browse.pl](http://seawifs.gsfc.nasa.gov/seawifs_scripts/octs_browse.pl)

Currently it is planned that OCTS data for coastal waters of the United States will be made available through the Goddard DAAC starting in fiscal year 1998.

In addition to the SeaWiFS Browser, there are several other new features on the Ocean Color Data & Resources Website. Two recently added Educational Resources provide a variety of ocean views. Oceanography From the Space Shuttle presents numerous photographs of the ocean from the Space Shuttle archive, accompanied by brief explanations. Classic CZCS Scenes provides several familiar and striking images from the CZCS archive to illustrate introductory chapters on various topics in oceanography and ocean color. More chapters and more images will be added to Classic CZCS Scenes as time allows—and in a few months this collection may be augmented by modern imagery from OCTS and SeaWiFS.

To keep up to date, readers should periodically check the Website's "News and Announcements." Latest additions include the Spring 1997 Ocean Color Newsletter, the ERIM poster, and an updated ocean color bibliography. If anyone is aware of news items to include in the newsletter or post on a Website, contact the Goddard DAAC Ocean Color Data Support Team at [ocdst@daac.gsfc.nasa.gov](mailto:ocdst@daac.gsfc.nasa.gov).

## VOLUNTEERS NEEDED

The Goddard DAAC needs volunteers in dozens of activities as part of NASA's Mission to Planet Earth effort. We need you for a wide range of opportunities, including outreach user support, distributing science and educational data, and developing new and innovative ways to understand Global Change. You can sign up for as little as 8 hours a month and work on flexible schedules with exciting people at Goddard's newest campus in Building 32. Call our Outreach Specialist at 301-614-5149 for more information and a volunteer application.

The Goddard DAAC distributes images and information about life in the sea, the location of vegetation across the globe, and information about the "ozone hole" over the Antarctic region plus other topics. Researchers and educators use this information in important work investigating global climate change.

## Make a Difference!

The Tropical Rainfall Measuring Mission (TRMM), scheduled for launch in November 1997, is a joint U.S.-Japan satellite mission to monitor tropical and subtropical precipitation and to estimate its associated latent heating. TRMM data will be available to general users about 6 to 9 months after launch, when all algorithms will have been checked out.

For us to provide the most value to you, the potential TRMM user, we need to know more about your specific needs for TRMM data. Decisions on value-added products and services that we might provide will be largely based on user preferences, so please go to

[http://daac.gsfc.nasa.gov/CAMPAIGN\\_DOCS/hydrology/hd\\_survey\\_intro.html](http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/hydrology/hd_survey_intro.html)

and complete and submit a TRMM User Survey.

Your input will significantly affect what we do and will be most appreciated! Returning a completed survey will also ensure that you receive the following benefits from the Goddard DAAC:

1. special notification of any TRMM news that may affect your plans for using TRMM data
2. your name added to our priority list of TRMM users who will get special updates on TRMM, the TRMM launch schedule, new data products and services, data processing tools, and other TRMM-related news.

## Thank you!



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