Experience with
Getting MODIS Data from the DAAC

AIRS Science Team Meeting
21 February, 2001
David T. Gregorich

Getting MODIS Data

Assume we want to get MODIS L1B radiance data for channel 31 on December 28, 2000 over Baja California.

Website: http://daac.gsfc.nasa.gov
Click <Search and Order> button.
    Click <New User Registration> button.
    Fill in registration form. Click <Submit> button.
    Wait for e-mail to arrive with username and password (next day).
Click <Data Sets> link.
Click <MODIS> link.

Website: http://acdisz.gsfc.nasa.gov/data/dataset/MODIS/index.html
Click <Radiances and Geolocation> link.
Click <Cal Rad 1km> link.
Click <2000> for year 2000.
Click <28> on December calendar.
Select map region with mouse. (Be sure Javascript is ON!)
Click <Start Search> button.
Select granule from list.
Click <Add Selections To Order> button.
Enter user ID and Password into popup panel. Click <OK>.
Select shipping type (FTP).
Click <Create Order>.
Wait for e-mail giving file name and ftp location (about an hour).

FTP the HDF and metadata text files (350Mb -> 7min).

Get the L1B documentation – Users Guide, Data Dictionary.
http://mcstweb.gsfc.nasa.gov/product.html
http://mcstweb.gsfc.nasa.gov/documents/L1B_PUG_v2.3.x_r2.doc
http://mcstweb.gsfc.nasa.gov/documents/L1B_V2.5.5_Data_Dctnry.doc

Try to read the HDF file...

Bookmarks Location: http://daac.gsfc.nasa.gov/

GSFC Earth Sciences (GES) Distributed Active Archive Center

"Your Source for Earth Science Data and Information"

NASA/GSFC Security and Privacy Statement

This is an U.S. Government Computer System. Users are authorized to use this system for search and access of EOSDIS data and services. Access to this system constitutes the users consent to monitoring. Any attempt toward malicious use on this system is prohibited and may be keystroke monitored. Maliciousness is punishable by Federal Law.

What's New?

Search & Order | Check Order | On-line FTP | Keyword Search

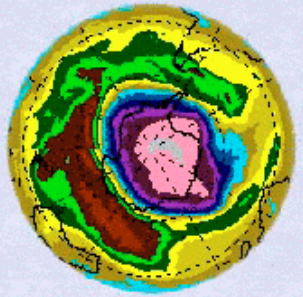
MODIS Information
Moderate-resolution Imaging Spectroradiometer

MODIS Information, Data, and User Services

Atmospheric Chemistry Ozone and other trace gas compositions, dynamics and energy interactions of the upper atmosphere.

Atmospheric Dynamics 3-dimensional dynamic and thermodynamic state of the earth-atmosphere system, from satellite measurements and assimilation systems.

Field Experiments Aircraft and ground based measurements of meteorological variables designed to improve science algorithms and validate satellite-derived data products.

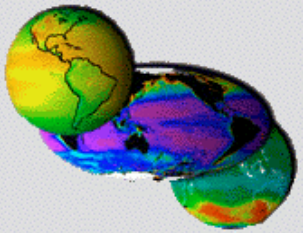


DAAC Search and Order

New User Registration | Update Registration | Order Status | Keyword Search | HELP

This is an U.S. Government Computer System. Users are authorized to use this system for search and access of EOSDIS data and services. Access to this system constitutes the users consent to monitoring. Any attempt toward malicious use on this system is prohibited and may be keystroke monitored. Maliciousness is punishable by Federal Law.

Data Views



Data Sets A search of the data archive by data set.

Goddard DAAC User Services: 301-614-5224 or 1-877-794-3147 -- daacuso@daac.gsfc.nasa.gov
Web Curator -- web-curator@daac.gsfc.nasa.gov
NASA Official: Steve Kempler, DAAC Manager -- kempler@daac.gsfc.nasa.gov

Last updated: 2000-02-11 17:00:23

New User Registration | Update Registration | Send Comments

New User Registration Form

If you have not registered to receive data before, please complete all the required fields (which are bold) in the form. Please note that you must push submit button on the bottom, otherwise you may lose all the information you typed in.

Please note: Shipping Email is your primary email address. It will receive both standard email and notification messages from the DAAC that the data is ready for FTP transfer. Contact Email is an optional email address. It will be the email address for standard email if SHIPPING EMAIL has been designated only for notification messages. (This option is for users who have configured their data system to automatically retrive their data by FTP.)

Title: or:

First Name: Middle Initial:

Last Name:

Shipping Email:

Contact Email:

Phone Number:

Fax:

Mailing Address:

IDC	resolutions. These data collections have been acquired from numerous sources and made available, by the Goddard DAAC, in a integrated form to support researchers who are interested in Interdiscipline science. Currently only the Climatology Interdisciplinary Data Collection CD set is accessible through the Goddard DAAC Search and Order page.
MSU	Data from the MSU LIMB93 processing is available in two formats, namely, the Hierarchical Data Format (HDF) and a native format originally used by the data producer. In both cases, separate files are provided for the Lower Tropospheric Temperature (LTT), the Upper Tropospheric Temperature (UTT), the Lower Stratospheric Temperature (LST) and the Oceanic Precipitation (OP). Each HDF file contains a single year of daily grids at 2.5 degree resolution. The native format files contain all 16 years of data in single files, except for precipitation which is separated by year as in the case of the HDF version of the data. The data and read programs are available for both data formats via anonymous FTP.
SEAWIFS	The Sea-viewing Wide Field-of-view Sensor Project provides quantitative data on global ocean bio-optical properties to the Earth science community. Subtle changes in ocean color signify various types and quantities of marine phytoplankton (microscopic marine plants), the knowledge of which has both scientific and practical applications.
SSI	The Surface Solar Irradiance (SSI) data set provides a global view of solar energy incident at the surface for both the full spectrum (.4 – 2.2 microns) and the photosynthetically active region of the spectrum (.4 – .7 microns). The major atmospheric inputs to the model are obtained from the International Satellite Cloud Climatology Project (ISCCP) DX data. The SSI data are mapped to a 1/2 degree rectangular grid at 3 hourly, daily and monthly time resolutions.
TOMS	Total Ozone Mapping Spectrometer provides high resolution global information about the total ozone content of the atmosphere. This data set is used in studies involving upper air dynamics and chemistry on both short (interannual) and long (decadal) time scales.
TOVS	The TIROS Operational Vertical Sounder (TOVS) instrument package provides information on temperature and humidity profiles, total ozone, clouds and radiation on a global scale. The Pathfinder processing of the data products using fixed algorithms provides a wealth of climatological information. TOVS has been carried aboard NOAA polar orbiting weather satellites since 1978, and continues to the present.
UARS	The Upper Atmosphere Research Satellite data set consists of daily near global (-80° to +80°) measurements of atmospheric trace gases, temperature, aerosols and wind profiles, as well as measurements of solar UV spectra and charged particles injected into the Earth's atmosphere.
TRMM	The Tropical Rainfall Measuring Mission is a joint endeavor between NASA and Japan's National Space Development Agency. It is designed to monitor and study tropical rainfall and the associated release of energy that helps to power the global atmospheric circulation, shaping both global weather and climate.
MODIS	The Moderate_Resolution Imaging Spectroradiometer (MODIS) is one of many Earth-observing instruments on board the EOS TERRA (previously EOS AM-1) satellite. It provides images of land, ocean and atmosphere in 36 spectral bands (from 0.4µm to 14.5µm) with spatial resolutions of 250m (bands 1-2), 500m (bands 3-7) and 1000m (bands 8-36)

Bookmarks Location: http://acdisx.gsfc.nasa.gov/data/dataset/MODIS/index.html

MODIS Data Products

New User Registration | Update Registration | Review Order | Keyword Search | Glossary | HELP

Welcome to the Moderate Resolution Imaging Spectroradiometer (MODIS) data access system at the Goddard DAAC. This data set consists of Radiances and Geolocations, Atmosphere and Ocean data products derived from observations made by the MODIS instrument on board the TERRA (EOS AM-1) satellite. All data files are in HDF-EOS format. For more information on MODIS and its data products please see the MODIS Data Support page or click on the **MODIS DATA SUPPORT** icon at the bottom of any MODIS data access page.

The link in the **User View** column below takes you to the specific MODIS data product group.

User View	Description	Begin Date	End Date
Radiances and Geolocation	MODIS Level 1A and Level 1B data (Radiance counts, calibrated radiances and geolocation)	2000-03-18 00:00:00	2001-02-14 01:55:00
Atmosphere	MODIS Atmospheric Level 2 and Level 3 data	2000-08-20 00:00:00	2001-02-14 00:50:00
Ocean	MODIS Ocean Level 2 and Level 3 data	2000-01-02 07:35:00	2000-12-17 00:00:00

MODIS No Frills Data Access

NASA | GSFC | Goddard DAAC | MODIS DATA SUPPORT | Global Change Master Directory | back to TOP

MODIS User Services: 301-614-5473; Fax: 301-614-5304 -- daac_usg@gsfcsrvr4.gsfcmo.ecs.nasa.gov
Goddard DAAC Help Desk: 301-614-5224 or 1-877-794-3147 -- daacuso@daac.gsfc.nasa.gov
Web Curator -- web-curator@daac.gsfc.nasa.gov
NASA Official: Steve Kempler, DAAC Manager -- kempler@daac.gsfc.nasa.gov

Last updated: 2001-02-15 06:07:15

MODIS Radiances and Geolocation Data Products

New User Registration | Update Registration | Review Order | Keyword Search | Glossary | HELP

Each link in the **Data Product** column below takes you to a list of years in which that product is available.

Data Product	Description	Begin Date	End Date	Number of Items	Average Item Size (Kb)
Rad Counts	Level 1A Radiance Counts data (MOD01)	2000-03-18 00:00:00	2001-02-14 01:55:00	80358	408947
Geolocation	Level 1A Geolocation data (MOD03)	2000-03-18 00:00:00	2001-02-14 01:55:00	80268	94388
Cal Rad 1km	Level 1B Calibrated Radiances 1km data (MOD021KM).	2000-03-18 00:00:00	2001-02-14 01:55:00	78104	259749
Cal Rad hkm	Level 1B Calibrated Radiances 0.5km data (MOD02HKM).	2000-03-18 00:00:00	2001-02-14 01:55:00	78252	165814
Cal Rad qkm	Level 1B Calibrated Radiances 0.25km data (MOD02QKM).	2000-03-18 00:00:00	2001-02-14 01:55:00	78233	172044
Onboard Calibration	Level 1B Onboard Calibrator/Engineering data (MOD02OBC).	2000-03-18 00:00:00	2001-02-14 01:55:00	77802	60487

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Web Curator -- web-curator@daac.gsfc.nasa.gov
NASA Official: Steve Kempler, DAAC Manager -- kempler@daac.gsfc.nasa.gov

MODIS Level 1B Calibrated Radiances 1km Data for 2000

New User Registration | Update Registration | Review Order | Keyword Search | HELP

Order Options:

1. Click on a highlighted day.
2. Use the Temporal Order section at the bottom of this page.

NOTE: Numbers shown in red are data granule counts.

2000 ➔ 2001

JANUARY

Su	Mo	Tu	We	Th	Fr	Sa
						01
02	03	04	05	06	07	08
09	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

Su	Mo	Tu	We	Th	Fr	Sa
		01	02	03	04	05
06	07	08	09	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

MARCH

3182 Data Granules

Su	Mo	Tu	We	Th	Fr	Sa
			01	02	03	04
05	06	07	08	09	10	11
12	13	14	15	16	17	18 (137)
19 (208)	20 (285)	21 (253)	22 (256)	23 (114)	24 (255)	25 (277)
26 (255)	27 (218)	28 (262)	29 (227)	30 (209)	31 (226)	

APRIL

8042 Data Granules

Su	Mo	Tu	We	Th	Fr	Sa
						01 (266)
02 (267)	03 (284)	04 (275)	05 (279)	06 (269)	07 (274)	08 (272)
09 (265)	10 (298)	11 (276)	12 (230)	13 (190)	14 (247)	15 (222)
16 (277)	17 (222)	18 (264)	19 (567)	20 (277)	21 (250)	22 (277)
23 (264)	24 (248)	25 (171)	26 (220)	27 (258)	28 (279)	29 (277)
30 (277)						

MAY

5842 Data Granules

Su	Mo	Tu	We	Th	Fr	Sa
	01 (283)	02 (279)	03 (279)	04 (284)	05 (271)	06 (280)
07 (267)	08 (253)	09 (180)	10 (44)	11 (96)	12	13 (202)
14 (210)	15 (214)	16 (233)	17 (264)	18 (241)	19 (101)	20 (98)
21 (245)	22 (229)	23 (279)	24 (280)	25 (257)	26 (206)	27
28	29 (3)	30 (116)	31 (148)			

JUNE

7034 Data Granules

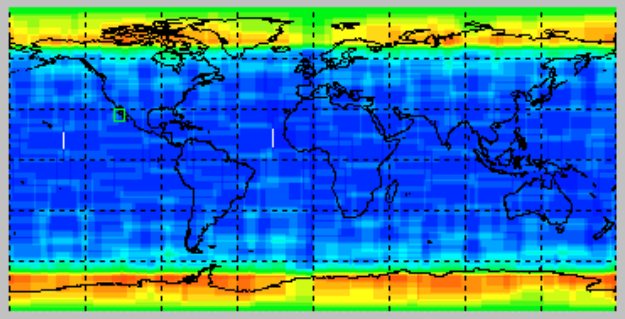
Su	Mo	Tu	We	Th	Fr	Sa
				01 (269)	02 (309)	03 (280)
04 (247)	05 (248)	06 (260)	07 (254)	08 (262)	09 (269)	10 (274)
11 (259)	12 (240)	13 (3)	14 (254)	15 (261)	16 (71)	17 (260)
18 (283)	19 (255)	20 (257)	21 (299)	22 (236)	23 (279)	24 (280)
25 (255)	26 (220)	27 (72)	28 (100)	29 (204)	30 (274)	

MODIS MOD021KM Data for 2000-DEC-28

New User Registration | Update Registration | Review Order | Cancel Order | Submit Order | HELP

Select Spatial Range

The map below uses a Java applet that may take several seconds to load. This map allows Java capable browsers to create a spatial search box. Using your mouse, click on the map and drag the mouse to create the boundaries of the box. Alternatively, the latitude and longitude boundaries for a region can be provided in decimal form (not degree, minutes, seconds). Use + for North and East and - for South and West. Coordinates must be entered if the WWW browser is not Java-enabled.



West Longitude	-118.0	South Latitude	23.0
East Longitude	-112.0	North Latitude	30.0

ShiftMap

Color area

Number of granules per area 1 7 13 19 25

Display no more than 50 items per page.

Start Search Reset

MODIS Level 1B Calibrated Radiances 1km Data

New User Registration | Update Registration | Review Order | Keyword Search | Glossary | HELP

Your search criteria and results are listed below.
You will find three buttons at the bottom of this page.
Click the "**Add Selections to Order**" button to order the items which you have selected by clicking their checkboxes.
Click the "**Add All Found to Order**" button to order *all* the items that were returned by the search.

List of Your Search Criteria

DATA_SET:	MODIS
PRODUCTS:	MOD021KM
SEARCH_TYPES:	TimeSearch,RectangularSearch
START DATE:	DEC 28 2000 00:00:00
END DATE:	DEC 28 2000 24:00:00
MIN_LON:	-118.0
MAX_LON:	-112.0
MIN_LAT:	23.0
MAX_LAT:	30.0
MAX_RETURN:	50
Total granules:	4
Total volume:	1174.489 MB

4 granules found for product *MOD021KM*.
Page 1: items 1 through 4; with volume of 1174.489 MB.

Item ID	Begin Date	End Date	Item Size (KB)	Select to Order
MOD021KM.A2000363.0555.002.2001015073351.hdf	2000-12-28 05:55:00	2000-12-28 06:00:00	146138	☐
MOD021KM.A2000363.1800.002.2001015113925.hdf	2000-12-28 18:00:00	2000-12-28 18:05:00	353335	☐
MOD021KM.A2000363.1805.002.2001015120045.hdf	2000-12-28 18:05:00	2000-12-28 18:10:00	351603	☑
MOD021KM.A2000363.1940.002.2001015124804.hdf	2000-12-28 19:40:00	2000-12-28 19:45:00	351603	☐

START DATE:	DEC 28 2000 00:00:00
END DATE:	DEC 28 2000 24:00:00
MIN_LON:	-118.0
MAX_LON:	-112.0
MIN_LAT:	23.0
MAX_LAT:	30.0
MAX_RETURN:	50
Total granules:	4
Total volume:	1174.489 MB

4 granules found f
Page 1: items 1 th

Netscape: Password

Enter username for DAAC Search and Order at eosdata.gsfc.nasa.gov:

User ID: David.T.Gregorich@jpl.nasa.gov

Password: ****

OK Clear Cancel

	Select to Order
MOD021KM	☐
MOD021KM	☐
MOD021KM	☑
MOD021KM	☐

Product MOD021KM:
Page: 1

Reset | Add Selections To Order | Add All Found To Order

NASA | GSFC | Goddard DAAC | MODIS DATA SUPPORT | Global Change Master Directory | back to TOP

Update Registration | Send Comments

You have selected the following data:

DATA_SET	DESCRIPTION	BEGIN_DATE	END_DATE	NUM_ITEMS	VOL (KB)	ITEM_ID
MODIS	MOD021KM	2000-12-28 18:05:00	2000-12-28 18:10:00	1	351603.0	MOD021KM.A2000363.1805.002.2001015120045.hdf

Please indicate how you would like your order to be shipped.

Via network: (FTP) ◇ *You will receive email on how to retrieve your order.*

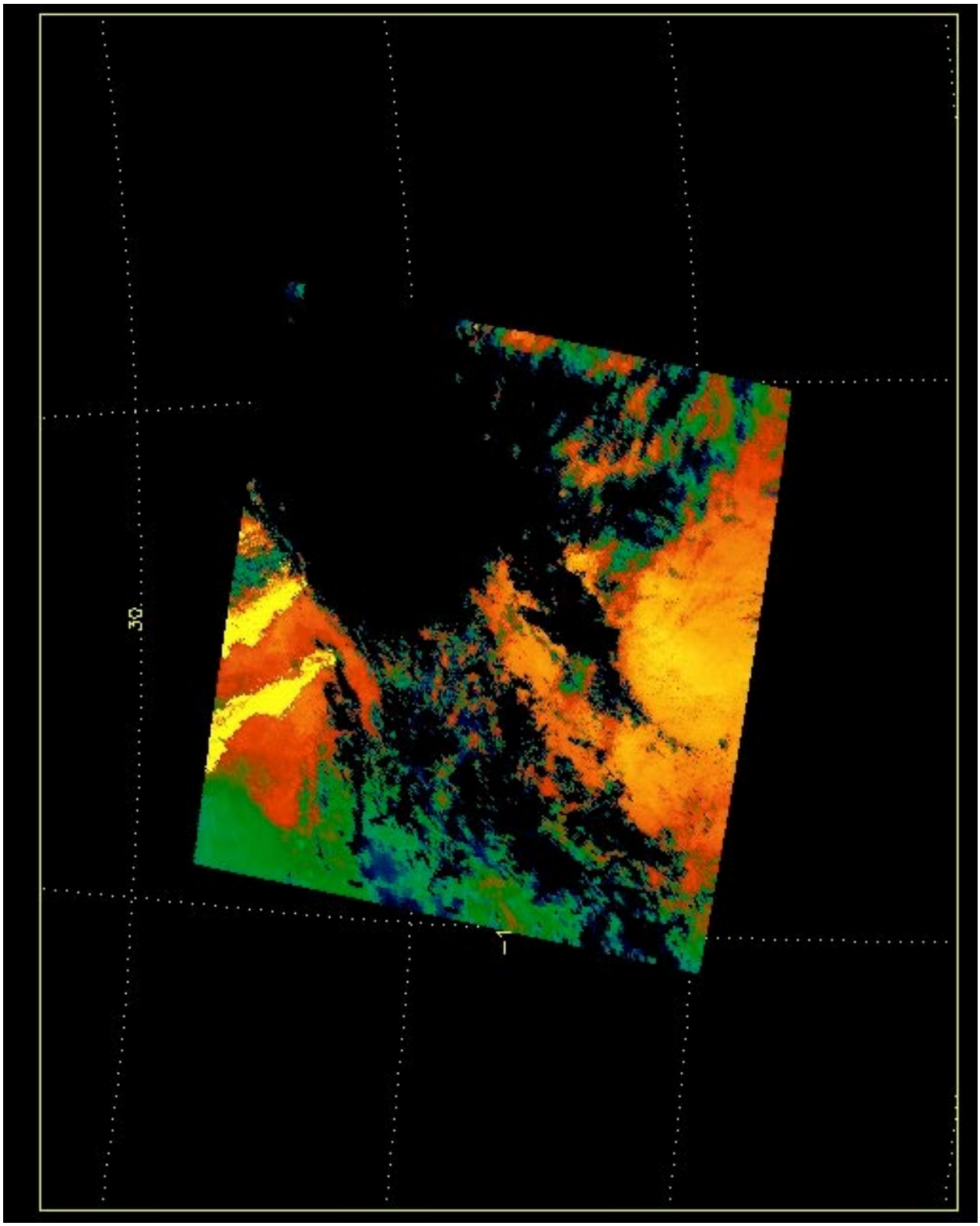
OR

On tape: 8MM-8500 ◇

And shipped via: US Mail ◇ | Interoffice Mail ◇ | Pick Up ◇

Once your order has been created, you will be able to modify it by adding or deleting items.
To start over without creating an order, use your browser's Back button.

Create Order


30
1