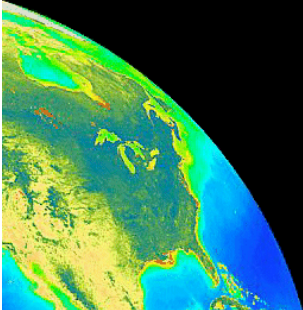


Ocean Color Data Processing System:  
Status  
2 November 2006

# NASA's Goal

---

To make available the highest quality ocean color (and sst) data to the broadest user community in the most timely and efficient manner possible.



# Requirements for Success

---

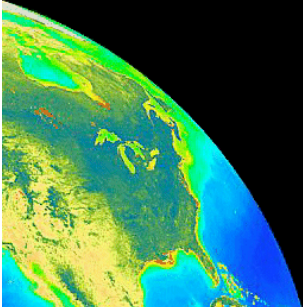
- Expertise:



# Requirements for Success

---

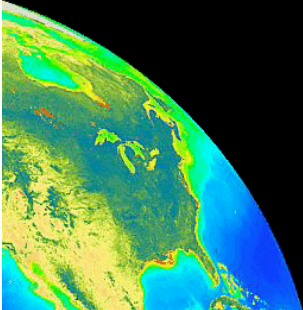
- Expertise: internal
  - highly integrated project structure with all elements co-located - continuous communication.



# Requirements for Success

---

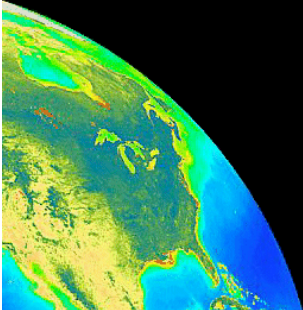
- Expertise: internal and external
  - highly integrated project structure with all elements co-located - continuous communication.
  - Strong links with mission-specific expertise (MCST) and research community (algorithms, validation data, new products)



# Requirements for Success

---

- Expertise
- Infrastructure
  - flexible data processing system that constantly upgrades procedures, technologies and equipment

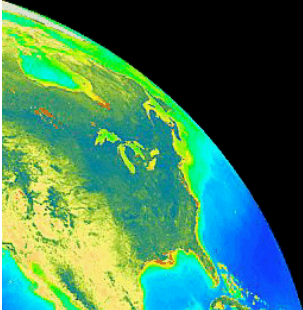


# Requirements for Success

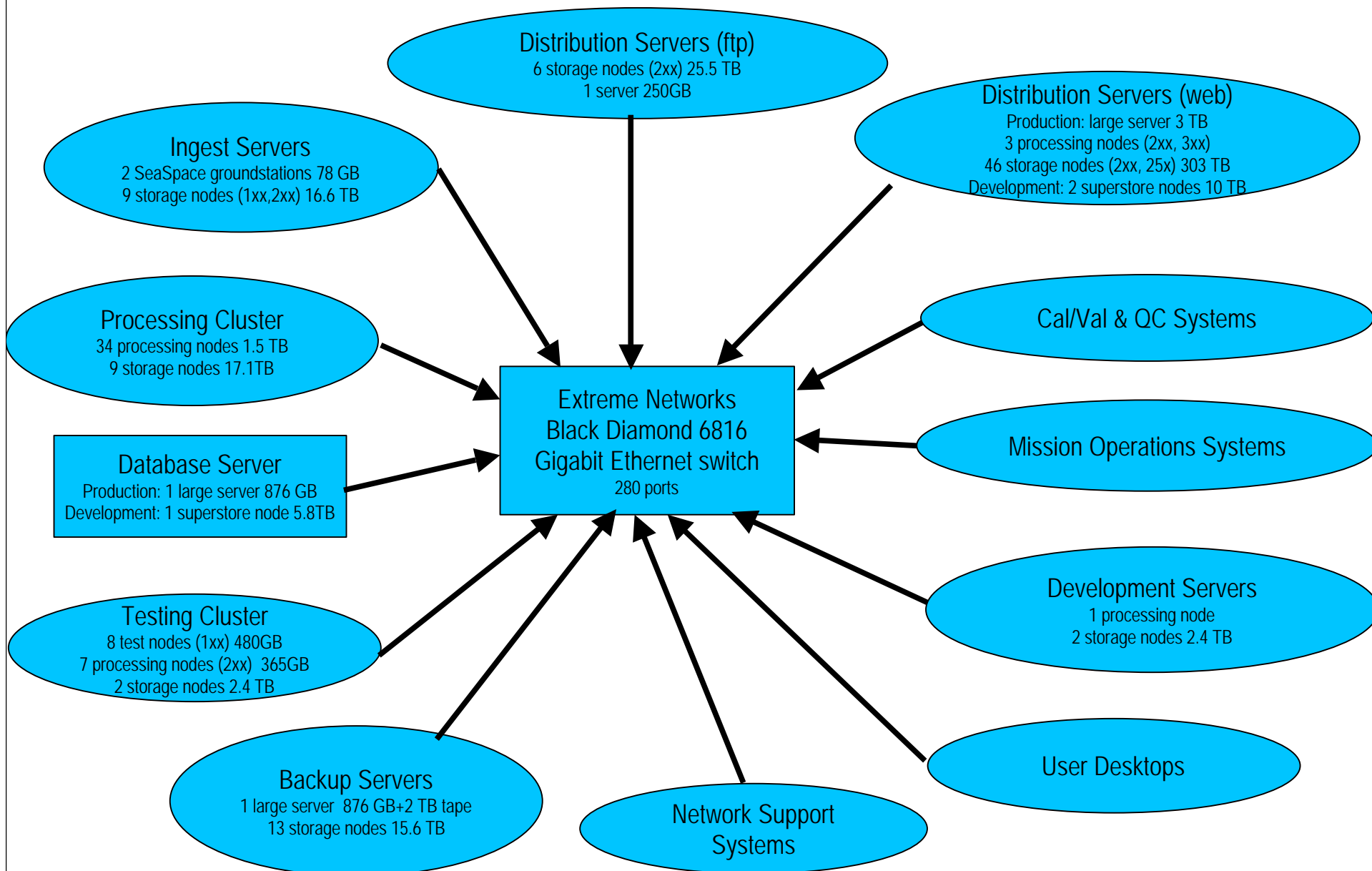
---

- Expertise
- Infrastructure
  - flexible data processing system that constantly upgrades procedures, technologies and equipment

SCIENCE drives the system rather than the  
SYSTEM driving the science



# Ocean Color Processing System Overview



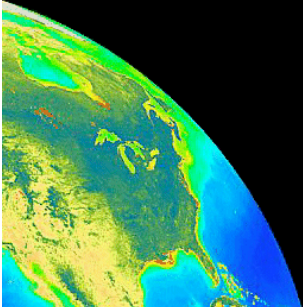




# Requirements for Success

---

- Expertise
- Infrastructure
- Data
  - Most efficient and ultimately most cost effective when source data is available online for all needs including processing, reprocessing, evaluation testing, distribution.



# Current Source Data Holdings

---

CZCS:

1978-1986

Volume = 582.72 GB

Files = 15499

OCTS:

1996-1997

Volume = 137.62 GB

Files = 7641

SeaWiFS GAC:

1997-present

Volume = 935.48 GB

Files = 51077

SeaWiFS MLAC:

Volume = 6.70 TB

Files = 39257

SeaWiFS LAC:

Volume = 358.90 GB

Files = 42231



# Current Source Data Holdings

---

MODIS/AQUA Level 1A Subset 7/02 - now

Volume = 19 TB      Files = 449823

MODIS/AQUA Level-0 (approx 20TB / year)

Volume = 58 TB      Files = 332765

MODIS/TERRA Level 1A Subset 1/05 - now

Volume = 8 TB      Files = 183623

MODIS/ TERRA Level-0 - since August 2006

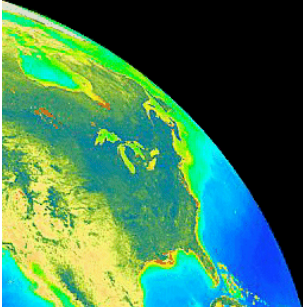
Volume = 5 TB      Files = 27374



# Requirements for Success

---

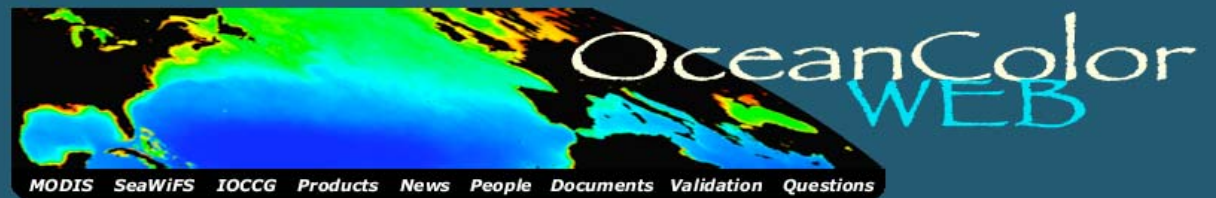
- Expertise
- Infrastructure
- Data
- Communication



# OceanColor Web

oceancolor.gsfc.nasa.gov

Consolidated data access, information, services and community feedback



## Data Access

### Data Production and Distribution Status



All systems nominal

NOTE: FTP connections must be made in PASSIVE mode

### Level 1 and 2 Browser

Visually search the ocean color data archive and directly download and/or order data from single files to the entire mission. Extensive online [HELP](#) and tutorials available.

### Level 3 Browser

Browse the entire Level 3 global ocean color data set for many parameters and time periods and download either JPEG images or digital data in HDF format. View [time series plots](#) of selected SeaWiFS parameters for selected regions of the globe.

### Data Subscriptions

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### Data by FTP

The Project maintains several FTP sites containing the most popular data products including the complete Level 3 data archive.

### Giovanni

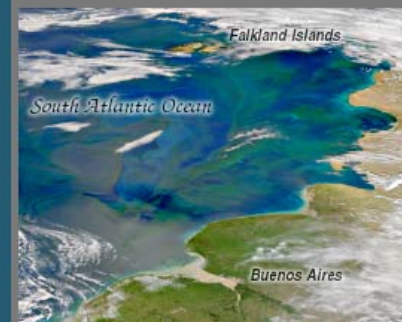
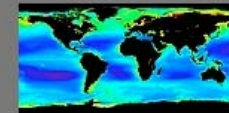
A [GES DISC DAAC](#) tool to provide users with an easy-to-use, Web-based interface for the visualization and analysis of the Earth Science data.

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Recent topics and imagery of interest to the OceanColor community.

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The OBPG now produces a merged Level-3 chlorophyll product derived from SeaWiFS and MODIS/Aqua. The products are being created routinely for daily, 8-day, monthly, seasonal and annual time periods. Details about this new product can be found [HERE](#)



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Click on the above 26 October 2006 MODIS image for a larger version or [click here](#) for the full-sized (98.6 megabyte) image.

### Image Gallery Ocean Color Distribution Statistics

## Support Services

### SeaDAS

A comprehensive image analysis package for the processing, display, analysis, and quality control of ocean color data.

### SeaBASS

An archive of in situ data, both oceanographic and atmospheric, used for algorithm development and satellite validation.

### Register for Support Services

Register for support services, including:

- SeaWiFS data access authorization
- Access to Near Real Time image support
- Request a new password or change email address
- Ocean Color Forum
- Ocean Color Mailing List

### Support Services

- Overflight predictions
- Near real-time imagery and data for cruise support

### Data Processing

The ODPS site contains information related to the ocean color data production system.

### Employment Opportunities (IOCCG listings)

## Data Documentation

- [Frequently Asked Questions \(FAQ\) from the Ocean Color community](#)
- [Data Format Specifications](#)
- [Land Mask Format Document](#) - The mask is used to set the land mask flag for each pixel in the Level 2 processing (pdf 8KB)
- [Validation Information : Marine Optical Buoy \(MOBY\)](#)
- [The SeaWiFS Bio-optical Archive and Storage System \(SeaBASS\): Current Architecture and Implementation \(pdf 2.3MB\)](#)
- [Ocean Color Standard Product Information](#)

## Processing Documentation

- [Reprocessing Information](#) Details on the various data reprocessings
- [Sensor Spectral Response Functions](#) Sensor RSRs and bandpass averaged quantities used in processing ocean color data
- [SeaWiFS Processing Overview](#) An overview of the processing of SeaWiFS data within OBPG
- [MODIS Processing Overview](#) An overview of the processing of MODIS ocean color data within OBPG (Ocean Biology Processing Group)
- [MODIS SST Processing: Implementation within the OBPG](#)
- [MODIS HIRES Processing: Support for MODIS 250 and 500-meter bands for Oceans](#)
- [CZCS Processing: Description of the Coastal Zone Color Scanner \(CZCS\) and the OBPG processing of the CZCS data](#)
- [NPP Ocean support](#) : Presentation including a detailed description of the current and planned data processing system
- [Aquarius Mission Interface Diagram](#) : Interfaces and interactions planned for the upcoming Aquarius ocean salinity mapping mission
- [Product validation and comparison methods](#)
- [Ocean Color Data Distribution Statistics](#)

## Software/Tools

- [MSI12 User Guide](#) A user's guide to the MSI12 software (**M**ulti-**S**ensor level **1** to **2** processing code)
- [Ocean Color IDL Library](#)
- [SeaWIFS Data Analysis System \(SeaDAS\)](#)

## Publications and Presentations

- [Ocean Color Publications Database](#) : Searchable library containing peer-reviewed references with abstracts and full text links. There is also a feature to add your own publications to the database.
- [Meeting/Workshop Presentations](#)

## Technical Memos

- SeaWIFS Technical Memoranda Series
  - [Post-launch Series](#)
  - [Pre-launch Series](#)
- [SIMBIOS Program Documents](#)  
Year end reports, Technical Memoranda, Presentation material
- Ocean Optics Protocols for Satellite Ocean Color Sensor Validation (pdf)
  - [Volume I](#) (729kB)
  - [Volume II](#) (1.4MB)
  - [Volume III](#) (1.1MB)
  - [Volume IV](#) (1.3MB)
    - [Volume IV, Errata](#) (19kB)
  - [Volume V](#) (942kB)
  - [Volume VI](#) (5.3MB)
  - [Volume VI, Part 2](#) (971kB)

## Miscellaneous

- [Advance Planning](#) (authorization required)



## Ocean Color Standard Processing Details

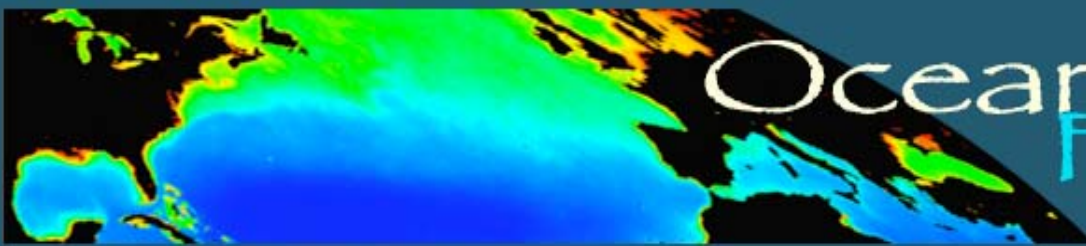
- [Flags and Masks](#)
- [Ozone Sources](#)
- [Atmospheric Correction and Aerosol Models](#)
- [Polarization Correction](#) (pdf 1.5 MB)
- [BRDF Correction](#) - "Bidirectional Reflectance Distribution Function" gives the reflectance as a function of illumination geometry and viewing geometry
- [Spectral Response Functions for Satellite sensors](#)
- [Vicarious Gains](#)
- **[Full Description of MODIS Aqua data processing within OBPG \(Ocean Biology Processing Group\)](#)**
- **[Full Description of SeaWiFS data processing within OBPG \(Ocean Biology Processing Group\)](#)**

## Calibration

- [MODIS Level 1 Calibration](#)
- [SeaWiFS Level 1 Calibration](#)
- [Vicarious Calibration for SeaWiFS and Aqua](#) are generated using data from [MOBY \(Marine Optical Buoy\)](#)

## Ongoing Validation

- [In situ Validation](#)
- [Aqua/SeaWiFS Inherent Differences](#) : Analysis and explanation of the known differences between MODIS and SeaWiFS retrieved water-leaving radiances and derived chlorophyll (pdf 597 kb)
- [Periodic Data Reprocessings](#) are undertaken as improvements are made to the algorithms
- [OC4v4 Versus OC3M chlorophyll algorithms](#) : OC4v4 is the current default algorithm for SeaWiFS, while OC3M is the current default algorithm for MODIS (Aqua). These algorithms may retrieve different values for chlorophyll for a given input  $R_{rs}$  ratio.
- [Mission Global Comparisons](#)
- [Analysis of potential calibration offset between MODIS and SeaWiFS](#) (pdf)
- [Product validation and comparison methods](#)



# OceanColor Forum

Ocean Color Forum - Not logged in

[Forum](#) [OceanColor Home](#) [Help](#) [Search](#) [Register](#) [Login](#)

## Forum

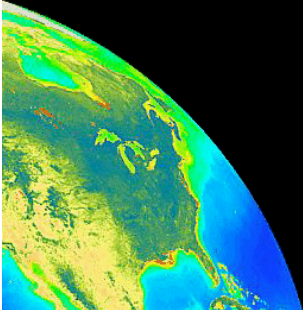
[Feeds](#) [Info](#)

<input type="checkbox"/> Ocean Color	Posts	Last Post
<input type="checkbox"/> OceanColor Announcement	52	2006-07-10 15:11
News and topics of general interest		
<input type="checkbox"/> Advance Plan Comments/Discussion	0	-
<input type="checkbox"/> Algorithms and Products	Posts	Last Post
<input type="checkbox"/> Frequently Asked Questions	32	2006-10-16 11:05
<input type="checkbox"/> Satellite Data Products & Algorithms	1249	2006-10-31 16:42
<input type="checkbox"/> Evaluation Products	20	2006-10-23 12:37
<input type="checkbox"/> Satellite Data Access	743	2006-10-31 18:52
<input type="checkbox"/> Field Data	19	2006-10-11 07:49
SeaBASS, in situ data access, and collection protocols		
<input type="checkbox"/> Mission Events	2	2004-04-23 12:17
Spacecraft-related events		
<input type="checkbox"/> SeaDAS	Posts	Last Post
<input type="checkbox"/> SeaDAS: General Questions	3079	2006-11-01 02:46
<input type="checkbox"/> SeaDAS News	25	2006-09-12 11:26
<input type="checkbox"/> SeaDAS FAQ	22	2006-10-12 12:16
<input type="checkbox"/> SeaDAS: Known Problems and Fixes	14	2006-08-24 16:11
<input type="checkbox"/> MODIS Direct Broadcast Support	63	2006-10-26 16:02

# Requirements for Success

---

- Expertise
- Infrastructure
- Data
- Communication
- Intuitive and efficient data distribution



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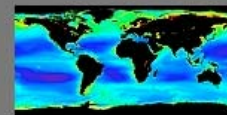
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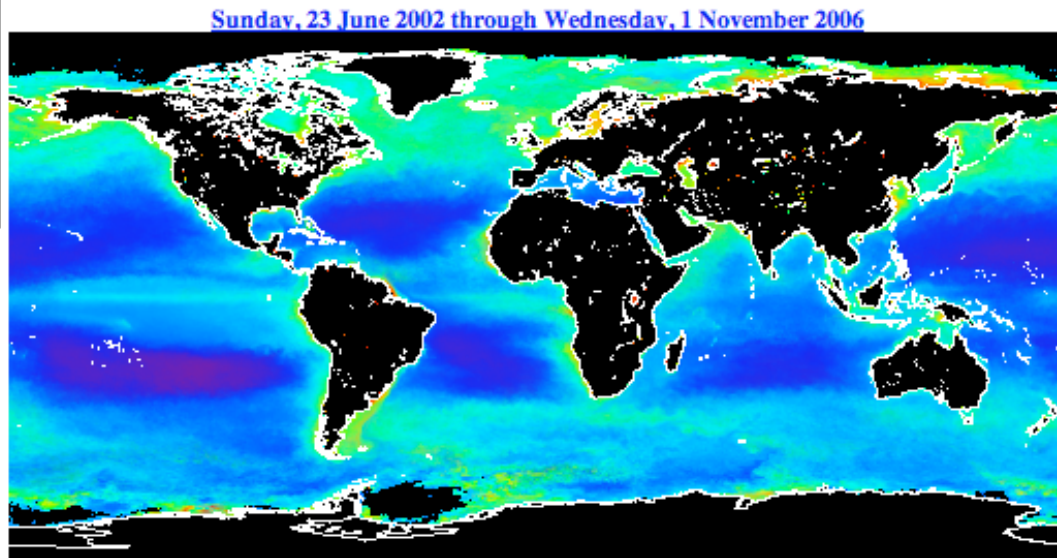
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SeaWiFS

GAC  LAC  MLAC

OCTS (ADEOS)  MODIS (Terra)  MODIS (Aqua)  CZCS (Nimbus-7)

Day  Night



Radius (km) about map click or about typed-in location:

72

400

800

1200

1500

Select swaths containing (at least):

any part

25 %

50 %

75 %

all

of the area of interest.

Select one or more regions:

- AdriaticSea
- AegeanSea
- Antarctica
- ArabianSea
- AralSea
- Arctic
- Australia
- AustraliaCoast
- Azores
- Bahamas
- BalticSea

or specify boundary coordinates or a single location:

N:

W:  :E

S:

Display results 10 at a time.

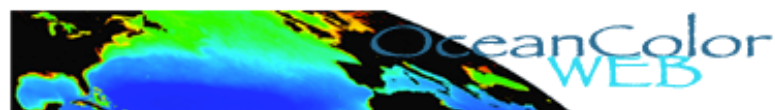
Reconfigure page

Find swaths

Chlorophyll

M	2002	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
i	2003	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
s	2004	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
s	2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
i	2006	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

September 2006							October 2006							November 2006						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	1	2	3	4	5	6	7				1	2	3	4
					xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx				xxx	xxx	xxx	xxx
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30		
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx					xxx	xxx	xxx	xxx	xxx		



SeaWiFS

GAC  LAC  MLAC

OCTS (ADEOS)  MODIS (Terra)  MODIS (Aqua)  CZCS (Nimbus-7)

Day  Night

Radius (km) about map click or about typed-in location:

72

400

800

1200

1500

Select swaths containing (at least):

any part

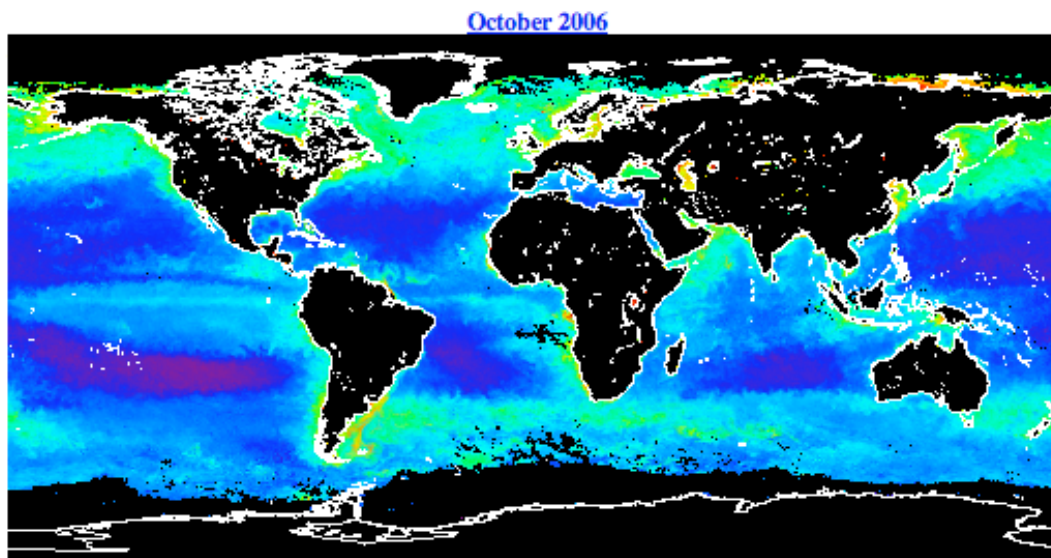
25 %

50 %

75 %

all

of the area of interest.



October 2006

Chlorophyll

Select one or more regions:

- CanaryIslands
- CapeVerdelIslands
- Caribbean
- CaspianSea
- ChagosArchipelago
- ChesapeakeBay
- ChukchiSea
- CrozetIslands
- Cuba
- EastSiberianSea
- EasterIsland

or specify boundary coordinates or a single location:

N:

W:  :E

S:

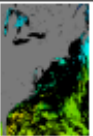


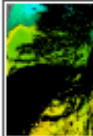
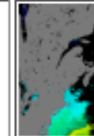
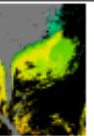

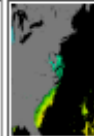

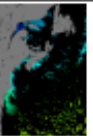

Display results 10 at a time.

Reconfigure page

Find swaths

M i s s i o n	2002	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2003	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	2004	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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September 2006							October 2006							November 2006						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
					1	2	1	2	3	4	5	6	7				1	2	3	4
					xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx				xxx	xxx	xxx	xxx
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
xxx	xxx	xxx	aaa	aaa	aaa	aaa	aaa	aaa	aaa	aaa	aaa	aaa	aaa	xxx	xxx	xxx	xxx	aaa	aaa	aaa
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
aaa	aaa	aaa	aaa	ooo	ooo	ooo	aaa	ooo	ooo	ooo	ooo	ooo	ooo	aaa	aaa	aaa	aaa	aaa	ooo	ooo
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
ooo	ooo	ooo	ooo	ooo	***	***	ooo	ooo	***	***	***	***	***	ooo	ooo	ooo	ooo	ooo	ooo	***
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30		
***	***	***	***	***	***	xxx	***	***	***					***	***	***	***	***		

<a href="#">A2006304180500.L2 LAC SST</a>		<a href="#">T2006303154000.L2 LAC SST</a>			<a href="#">A2006300183000.L2 LAC SST</a>					
		<a href="#">A2006303172500.L2 LAC SST</a>			<a href="#">A2006301173500.L2 LAC SST</a>					
31Oct2006	30Oct2006				29Oct2006	28Oct2006		27Oct2006		
<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	
										
<a href="#">A2006303190000.L2 LAC SST</a>		<a href="#">A2006302181500.L2 LAC SST</a>			<a href="#">T2006300151000.L2 LAC SST</a>					
		<a href="#">A2006303172000.L2 LAC SST</a>			<a href="#">T2006301155500.L2 LAC SST</a>					

**Search Criteria**

**Time Period:** October 2006 (daytime)

**Sensors:** MODIS(Terra) and MODIS(Aqua)

**Area of Interest:** ChesapeakeBay

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#)



**Percentage of AOI that swaths must include:** Any part

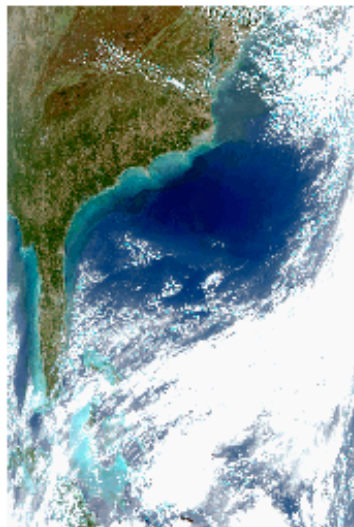
**Number of swaths:** 1st through 10th of 72 swaths

- [A2006302181500.L0\\_LAC](#) 297,436,262 bytes
- [A2006302181500.L1A\\_LAC](#) 62,424,920 bytes
- [A2006302181500.L2\\_LAC](#) 17,289,823 bytes
- [A2006302181500.L2\\_LAC\\_SST](#) 5,499,107 bytes

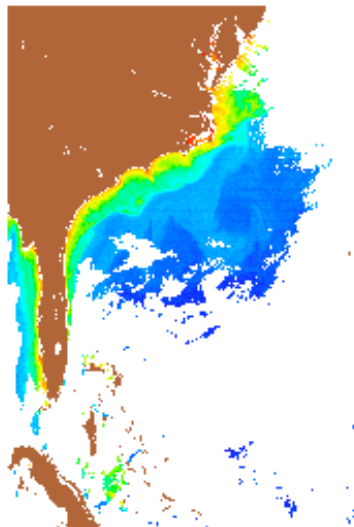
(The above hyperlinks point to [bzip2-compressed HDF files](#).  
Documentation on these products can be found [HERE](#).)

[Select this scene](#)

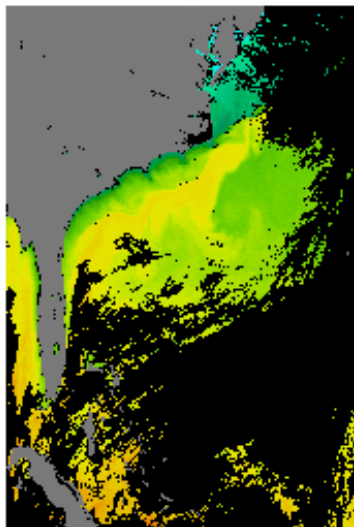
Quasi True Color

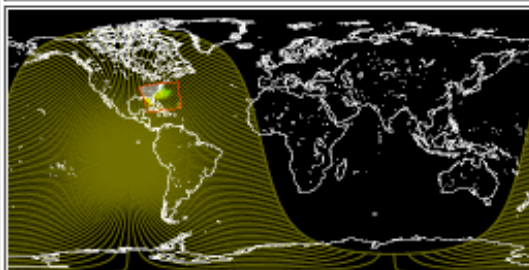


Chlorophyll



Sea Surface Temperature (11 μ)



Sunday, 29 October 2006
2006302


**Search Criteria**  
 Time Period: October 2006 (daytime)  
 Sensors: MODIS(Terra) and MODIS(Aqua)  
 Area of Interest: ChesapeakeBay



Percentage of AOI that swaths must include: Any part

Number of swaths: 6th of 72 swaths



<a href="#">A2006304180500.L2 LAC SST</a>		<a href="#">T2006303154000.L2 LAC SST</a>			<a href="#">A2006300183000.L2 LAC SST</a>						
		<a href="#">A2006303172500.L2 LAC SST</a>			<a href="#">A2006301173500.L2 LAC SST</a>						
31Oct2006	30Oct2006				29Oct2006	28Oct2006		27Oct2006			
<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>	<a href="#">****</a>		
		<a href="#">A2006303190000.L2 LAC SST</a>			<a href="#">A2006302181500.L2 LAC SST</a>		<a href="#">T2006300151000.L2 LAC SST</a>				
		<a href="#">A2006303172000.L2 LAC SST</a>			<a href="#">T2006301155500.L2 LAC SST</a>						

**Search Criteria**

**Time Period:** October 2006 (daytime)

**Sensors:** MODIS(Terra) and MODIS(Aqua)

**Area of Interest:** ChesapeakeBay

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#)



**Percentage of AOI that swaths must include:** Any part

**Number of swaths:** 1st through 10th of 72 swaths

Enter your email address.

gene.c.feldman@nasa.gov

In order to reduce the volume of data that you have to deal with, we can extract the geographical area indicated at right from the swaths you ordered before we place the data in our download area.

Please choose one of the following options.

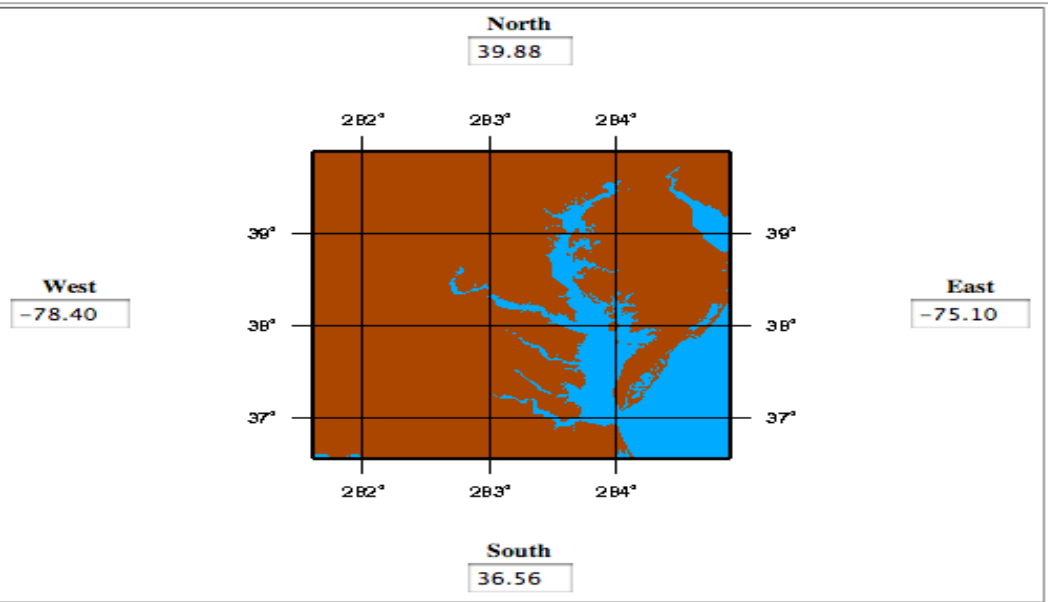
Do  Do not  extract my order for me.

You may adjust the extraction region by altering the coordinates at right.

The default coordinates are the ones which circumscribe the area or areas of interest that you used to do your search. If you started your search by just clicking on the world map without specifying a larger search radius, then you may want to increase the size of your extract region since the default search radius is 72 kilometers.

All four coordinates are expected to be in decimal degrees. Degrees north of the equator and east of the Greenwich meridian should be positive, and degrees south of the equator and west of the Greenwich meridian should be negative.

SeaWiFS extracts are processible with [SeaDAS](#).



Pick which data products you want for your selected scenes.

Level 1

If you plan to process Level-1 files using [SeaDAS](#), then you will also need the following.

- Meteorology & Ozone
- Attitude & Ephemeris (MODIS only)

Level 2

You may select to receive only the following checked level-2 standard-suite products if you wish. If you select none of these and simply check "Level 2" above, then you will receive all of the available level-2 products for a given sensor.

- chlorophyll a
- K490
- normalized, water-leaving radiances
- aerosol products

Level 2 SST (11 μ) (MODIS only)

Level 2 SST (4 μ) (MODIS nighttime only)

Remind me when my order is about to expire.

Require my email confirmation for early file deletion.

Notify me when my data have been deleted from the staging area.

Review order

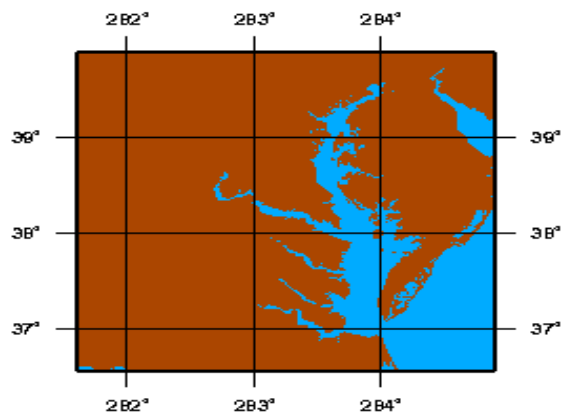
You are about to order the following 182 files from the Ocean Color Data Processing System.

A2006304180500.L1A_LAC	A2006297180000.L1A_LAC	T2006292160000.L2_LAC_SST	T2006287154000.L1A_LAC	A2006279181000.L2_LAC_SST
A2006304180500.L2_LAC	A2006297180000.L2_LAC	A2006291183500.L1A_LAC	T2006287154000.L2_LAC_SST	T2006279163000.L1A_LAC
A2006304180500.L2_LAC_SST	A2006297180000.L2_LAC_SST	A2006291183500.L2_LAC	T2006286164000.L1A_LAC	T2006279163000.L2_LAC_SST
A2006303190000.L1A_LAC	T2006297162000.L1A_LAC	A2006291183500.L2_LAC_SST	T2006286164000.L2_LAC_SST	A2006278190500.L1A_LAC
A2006303190000.L2_LAC	T2006297162000.L2_LAC_SST	T2006291165500.L1A_LAC	T2006286163500.L1A_LAC	A2006278190500.L2_LAC
A2006303190000.L2_LAC_SST	A2006296185500.L1A_LAC	T2006291165500.L2_LAC_SST	T2006286163500.L2_LAC_SST	A2006278190500.L2_LAC_SST
A2006303172500.L1A_LAC	A2006296185500.L2_LAC	A2006290175500.L1A_LAC	T2006285155500.L1A_LAC	A2006278173000.L1A_LAC
A2006303172500.L2_LAC	A2006296185500.L2_LAC_SST	A2006290175500.L2_LAC	T2006285155500.L2_LAC_SST	A2006278173000.L2_LAC
T2006298152500.L1A_LAC	A2006292174000.L2_LAC_SST	T2006287154500.L2_LAC_SST	A2006279181000.L2_LAC	T2006274161500.L2_LAC_SST
T2006298152500.L2_LAC_SST	T2006292160000.L1A_LAC			

The total volume of the above files before extraction (*in the compressed form in which they are stored in our archive*) is **5,172,896,353** bytes.

Files in your order will be trimmed using the following coordinates.

```
Northernmost latitude: 39.88
Southernmost latitude: 36.56
Westernmost longitude: -78.4
Easternmost longitude: -75.1
```



You **do** wish to be reminded by email when your order is about to expire, and you **do** require email confirmation when you use the Web to request early deletion of your staged order, and you **do** wish to be notified when your order has been deleted from our staging area.

The email address you have entered is **gene.c.feldman@nasa.gov**.

If all this information is correct and you wish to submit your order to be filled, then click the "Submit order" button below.

Submit order

## Data Access

### Data Production and Distribution Status



All systems nominal

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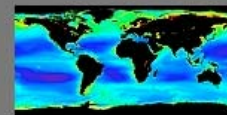
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### Employment Opportunities (IOCCG listings)

## OceanColor Extracts and Mapping

### 1. Selected Mission

**MODISA**

### 2. Select timeframe for the data

Start Date:

Stop Date:

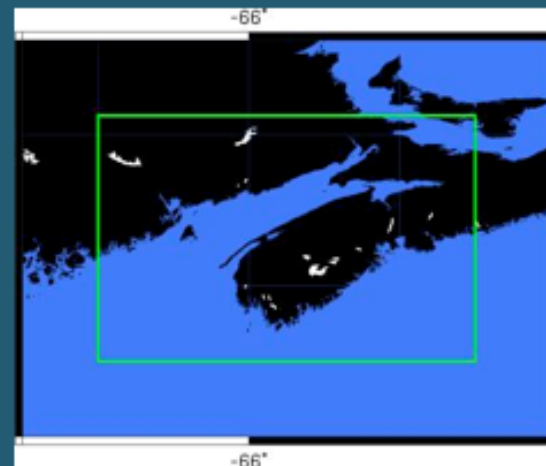
### 3. Specify a region

Select Existing Region:

Create New Region:

North South West East

Name: **Bay\_of\_Fundy**  
North: **46.25**  
South: **43**  
West: **-68**  
East: **-63**  
Description: **REGION: LON-  
RANGE:[-68.0, -63.0] LAT-  
RANGE:[43.0, 46.25]**



#### 4. Select MODISA products

- Aerosol Optical Thickness
- Angstrom
- Chlorophyll a
- K490
- Sea Surface Temperature
- True Color
- True Color - Cloud optimized
- Water Leaving Radiance (412nm)
- Water Leaving Radiance (443nm)
- Water Leaving Radiance (488nm)
- Water Leaving Radiance (531nm)
- Water Leaving Radiance (551nm)
- Water Leaving Radiance (667nm)

#### 5. Select map attributes

- Coastline
- Color Bar
- Frame
- Grid
- Label
- Transparent Background
- Threshold
- Width

#### 6. Select any hdf files to include

- Level-1
- Level-2

#### 7. Select maps distribution method

- Ocean Color FTP Server (oceans.gsfc.nasa.gov)
- Ocean Color Website Distribution (Tile Regions)
- Email:
  - gene@seawifs.gsfc.nasa.gov

Other addresses (comma separated):

#### 8. Select hdf distribution method (if hdf files selected)

- Ocean Color FTP Server (oceans.gsfc.nasa.gov) (Only option currently supported for HDF distribution)

Continue >>

Cancel

# SDPS Data Subscription System

Subscriptions for : all at Mon Oct 30 14:12:47 2006 EST

There are currently 249 subscriptions

[Also See Expired Subscriptions](#)

Edit	Id	Email	Region Boundaries (N,S,W,E)	Hits	Start Date	Stop Date	Refined	Create Date	Active Date	Last Match Date	Last Stage Date	Staged Last 24 Hrs
<a href="#">Modify</a>	<a href="#">519</a>	yhlee@xmu.edu.cn	<a href="#">View Map</a> (16°,11°,108°,113°)	0	Nov 1 2006	Dec 31 2006		Oct 27 2006 5:40AM EST	Oct 31 2006	No files matched	No files staged	0
<a href="#">Modify</a>	<a href="#">378</a>	ocean@albertina.ru	<a href="#">View Map</a> (56°,54°,19°,23.3°)	1094	Feb 14 2006	Feb 14 2007	YES	Feb 14 2006 12:12PM EST	Feb 14 2006	Oct 30 2006 2:01PM EST	Oct 30 2006 2:03PM EST	52
<a href="#">Modify</a>	<a href="#">375</a>	antonk@nersc.no	<a href="#">View Map</a> (66°,51°,-4°,10°)	4053	Feb 8 2006	Continuous		Feb 8 2006 7:50AM EST	Feb 8 2006	Oct 30 2006 11:36AM EST	Oct 30 2006 11:39AM EST	18
<a href="#">Modify</a>	<a href="#">374</a>	b.nechad@mumm.ac.be	<a href="#">View Map</a> (52.3°,50.9°,1.83°,3.7°)	816	Feb 8 2006	Dec 31 2006		Feb 8 2006 5:05AM EST	Feb 8 2006	Oct 30 2006 10:24AM EST	Oct 30 2006 10:47AM EST	1
<a href="#">Modify</a>	<a href="#">513</a>	muriel.lux@noveltis.fr	<a href="#">View Map</a> (45°,35°,-2°,12°)	16	Oct 27 2006	Continuous		Oct 27 2006 4:36AM EST	Oct 27 2006	Oct 30 2006 11:50AM EST	Oct 30 2006 11:53AM EST	10
<a href="#">Modify</a>	<a href="#">512</a>	yhwang@mail.nsysu.edu.tw	<a href="#">View Map</a> (26°,20°,116°,122°)	5	Oct 24 2006	Continuous	YES	Oct 24 2006 11:32PM EST	Oct 24 2006	Oct 30 2006 1:23PM EST	Oct 30 2006 12:45PM EST	2
<a href="#">Modify</a>	<a href="#">364</a>	jessica_geo@mail.ru	<a href="#">View Map</a> (60°,50°,15°,25°)	1955	Jan 27 2006	Continuous		Jan 27 2006 7:53AM EST	Jan 27 2006	Oct 30 2006 10:02AM EST	Oct 30 2006 10:06AM EST	8
<a href="#">Modify</a>	<a href="#">363</a>	bcm3@cornell.edu	<a href="#">View Map</a> (46°,37°,-72°,-63°)	939	Jan 26 2006	Continuous	YES	Jan 26 2006 12:46PM EST	Jan 26 2006	Oct 30 2006 2:09PM EST	Oct 30 2006 2:12PM EST	22
<a href="#">Modify</a>	<a href="#">362</a>	jesse.doren@usap.gov	<a href="#">View Map</a> (-61°,-71°,-64°,-54°)	3822	Jan 25 2006	Continuous		Jan 25 2006 3:19PM EST	Jan 25 2006	Oct 30 2006 11:32AM EST	Oct 30 2006 11:33AM EST	44

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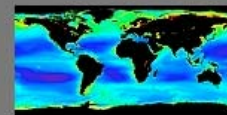
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# Level-3 Standard Mapped Images

[Help](#)

[Color scales](#)

[Rolling 32-day composites](#)

["Filled-in" rolling 32-day biosphere composites](#)

[Climatologies](#)

[SeaWiFS anomaly images](#)

<b>Aqua-MODIS</b>	<a href="#">Chlorophyll</a>	<a href="#">Diffuse attenuation</a>	<a href="#">nLw at 551 nm</a>	<a href="#">Aerosol optical thickness</a>	<a href="#">Angstrom coefficient</a>	<a href="#">SST [11 μ day]</a>	<a href="#">SST [11 μ night]</a>	<a href="#">SST [4 μ night]</a>
<b>Terra-MODIS</b>						<a href="#">SST [11 μ day]</a>	<a href="#">SST [11 μ night]</a>	<a href="#">SST [4 μ night]</a>
<b>SeaWiFS</b>	<a href="#">Chlorophyll</a>	<a href="#">Diffuse attenuation</a>	<a href="#">nLw at 555 nm</a>	<a href="#">Aerosol optical thickness</a>	<a href="#">Angstrom coefficient</a>			
	<a href="#">Biosphere</a>	<a href="#">PAR</a>	<a href="#">NDVI</a>	<a href="#">Land Reflectance</a>				
<b>OCTS</b>	<a href="#">Chlorophyll</a>	<a href="#">Diffuse attenuation</a>	<a href="#">nLw at 565 nm</a>	<a href="#">Aerosol optical thickness</a>	<a href="#">Angstrom coefficient</a>			
<b>CZCS</b>	<a href="#">Chlorophyll</a>		<a href="#">nLw at 550 nm</a>	<a href="#">Aerosol optical thickness</a>	<a href="#">Angstrom coefficient</a>			
<b>Evaluation Products</b>	<a href="#">Merged Chlorophyll</a>	<a href="#">Calcite</a>	<a href="#">Fluorescence Line Height</a>					

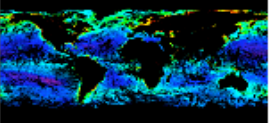
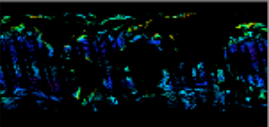
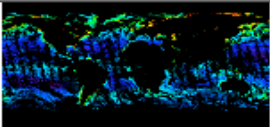
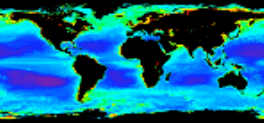
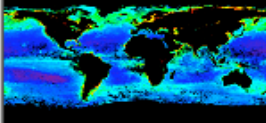
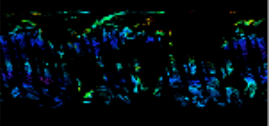
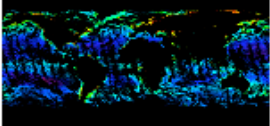
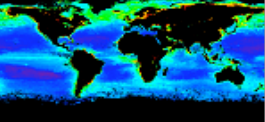
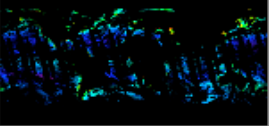
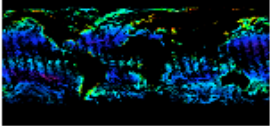
						<a href="#">Jul 2002</a>	<a href="#">Aug 2002</a>	<a href="#">Sep 2002</a>	<a href="#">Oct 2002</a>	<a href="#">Nov 2002</a>	<a href="#">Dec 2002</a>
<a href="#">Jan 2003</a>	<a href="#">Feb 2003</a>	<a href="#">Mar 2003</a>	<a href="#">Apr 2003</a>	<a href="#">May 2003</a>	<a href="#">Jun 2003</a>	<a href="#">Jul 2003</a>	<a href="#">Aug 2003</a>	<a href="#">Sep 2003</a>	<a href="#">Oct 2003</a>	<a href="#">Nov 2003</a>	<a href="#">Dec 2003</a>
<a href="#">Jan 2004</a>	<a href="#">Feb 2004</a>	<a href="#">Mar 2004</a>	<a href="#">Apr 2004</a>	<a href="#">May 2004</a>	<a href="#">Jun 2004</a>	<a href="#">Jul 2004</a>	<a href="#">Aug 2004</a>	<a href="#">Sep 2004</a>	<a href="#">Oct 2004</a>	<a href="#">Nov 2004</a>	<a href="#">Dec 2004</a>
<a href="#">Jan 2005</a>	<a href="#">Feb 2005</a>	<a href="#">Mar 2005</a>	<a href="#">Apr 2005</a>	<a href="#">May 2005</a>	<a href="#">Jun 2005</a>	<a href="#">Jul 2005</a>	<a href="#">Aug 2005</a>	<a href="#">Sep 2005</a>	<a href="#">Oct 2005</a>	<a href="#">Nov 2005</a>	<a href="#">Dec 2005</a>
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[Previous](#)

## Chlorophyll (Aqua-MODIS)

16 rows in the  
rightmost column

[Next](#)

<a href="#">Yearly</a>	<a href="#">Seasonal</a>	<a href="#">Monthly</a>	<a href="#">Weekly</a>	<a href="#">Daily</a>	<a href="#">3-Day</a>
					
			06Sep2005 to 13Sep2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>	12-Sep-2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>	10Sep2005 to 12Sep2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>
					
2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>		Sep-2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>		13-Sep-2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>	11Sep2005 to 13Sep2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>
					
	Summer-2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>			14-Sep-2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>	12Sep2005 to 14Sep2005 9km <a href="#">png</a> <a href="#">HDF</a> 4km <a href="#">png</a> <a href="#">HDF</a>

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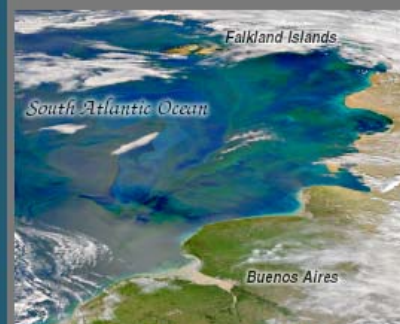
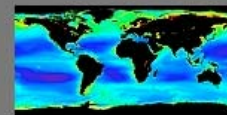
A [GES DISC DAAC](#) tool to provide users with an easy-to-use, Web-based interface for the visualization and analysis of the Earth Science data.

## Ocean Color Web Feature

Recent topics and imagery of interest to the OceanColor community.

### AQUA/SeaWiFS Merged Chlorophyll Data

The OBPG now produces a merged Level-3 chlorophyll product derived from SeaWiFS and MODIS/Aqua. The products are being created routinely for daily, 8-day, monthly, seasonal and annual time periods. Details about this new product can be found [HERE](#)



Some of the authors of a [recent paper](#) describing the timing of [coccolithophore](#) blooms in the South Atlantic Ocean off the coast of Argentina are once again at sea in this area endeavoring to improve our understanding of the phytoplankton communities that add so much color to these waters.

Click on the above 26 October 2006 MODIS image for a larger version or [click here](#) for the full-sized (98.6 megabyte) image.

### Image Gallery Ocean Color Distribution Statistics

## Support Services

### SeaDAS

A comprehensive image analysis package for the processing, display, analysis, and quality control of ocean color data.

### SeaBASS

An archive of in situ data, both oceanographic and atmospheric, used for algorithm development and satellite validation.

### Register for Support Services

Register for support services, including:

- SeaWiFS data access authorization
- Access to Near Real Time image support
- Request a new password or change email address
- Ocean Color Forum
- Ocean Color Mailing List

### Support Services

- Overflight predictions
- Near real-time imagery and data for cruise support

### Data Processing

The ODPS site contains information related to the ocean color data production system.

### Employment Opportunities (IOCCG listings)

# FTP Page for Ocean Color Products

The tables below provide direct ftp access to data products organized by satellite

(Level 1, Level 2 and Geolocation files are only for the most recent 15 days)

A complete description of the FTP site structure can be found in the [README](#) file at the top level of the site (<ftp://oceans.gsfc.nasa.gov>)

## MODIS Aqua

### (Ocean Color, Sea Surface Temperature and Evaluation Products)

#### Binned

[Level 3 Binned Standard Product Suite](#)

[Binned Daily](#)

[Binned Daily / 3Day Quicklook](#)

[Binned 8Day](#)

[Binned Monthly](#)

[Binned Monthly Climatology](#)

[Binned Seasonal](#)

[Binned Seasonal Climatology](#)

[Binned Annual](#)

#### Mapped

[Level 3 Mapped Standard Product Suite](#)

[Mapped Daily](#)

[Mapped Daily / 3Day Quicklook](#)

[Mapped 8Day](#)

[Mapped Monthly](#)

[Mapped Monthly Climatology](#)

[Mapped Seasonal](#)

[Mapped Seasonal Climatology](#)

[Mapped Annual](#)

#### Level 1, GEO, & Level 2

[Quicklook - Daytime granules](#)  
[Quicklook - Night/Mixed granules](#)

[Refined - Daytime granules](#)  
[Refined - Night/Mixed granules](#)

## Data Access

### Data Production and Distribution Status



All systems nominal

NOTE: FTP connections must be made in PASSIVE mode

### Level 1 and 2 Browser

Visually search the ocean color data archive and directly download and/or order data from single files to the entire mission. Extensive online [HELP](#) and tutorials available.

### Level 3 Browser

Browse the entire Level 3 global ocean color data set for many parameters and time periods and download either JPEG images or digital data in HDF format. View [time series plots](#) of selected SeaWiFS parameters for selected regions of the globe.

### Data Subscriptions

Request a subscription for Aqua data to be staged on an FTP site. You can [check the status](#) of an existing subscription. Requires a Support Services [username and password](#).

### Data by FTP

The Project maintains several FTP sites containing the most popular data products including the complete Level 3 data archive.

### Giovanni

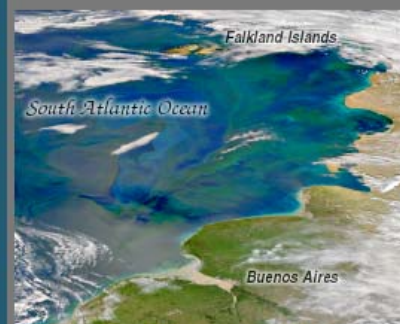
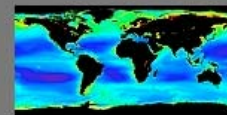
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[Image Gallery](#)  
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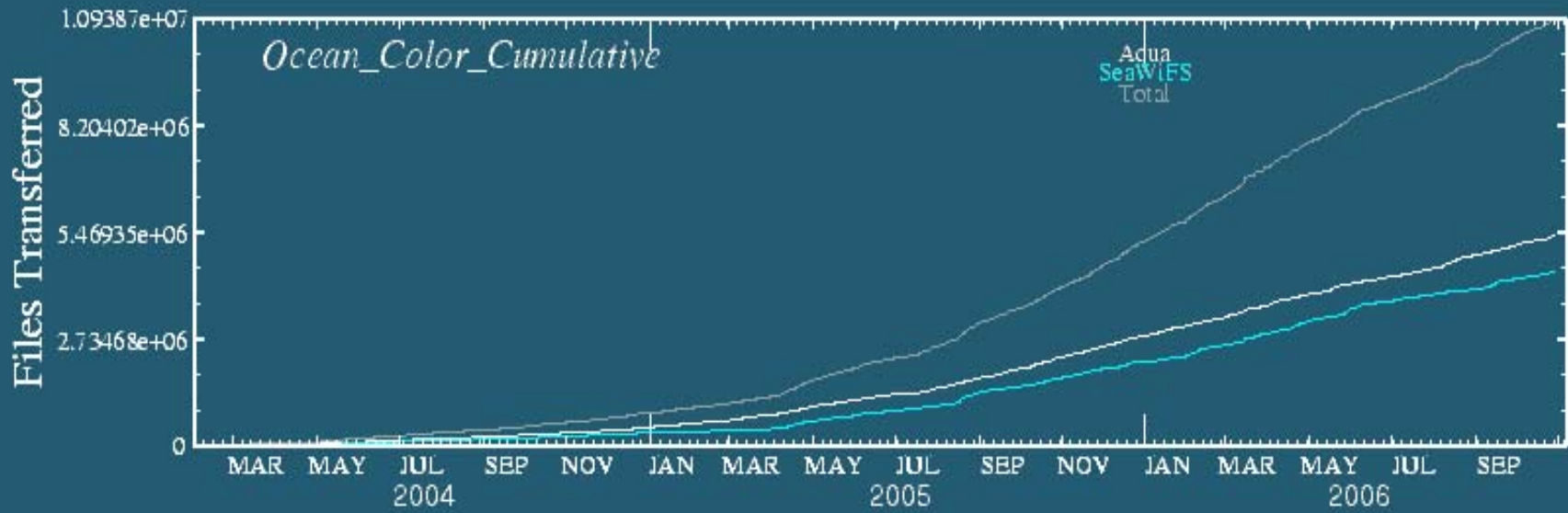
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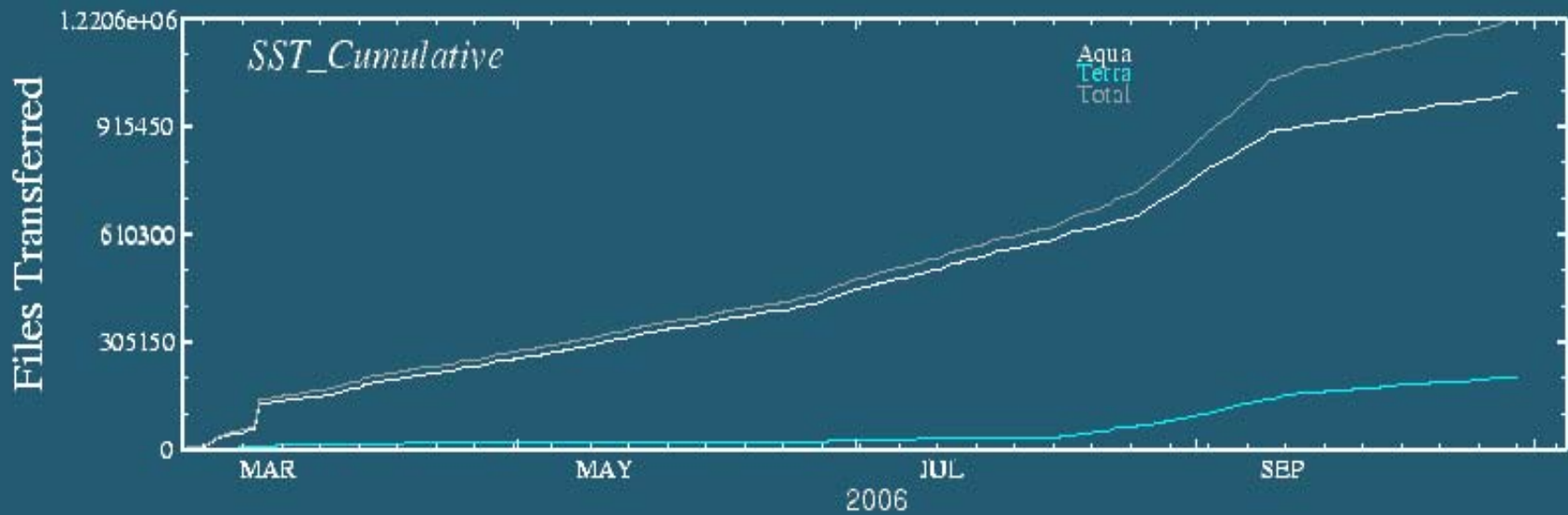
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[Employment Opportunities \(IOCCG listings\)](#)



**SST statistics tracking began on 1 March 2006**

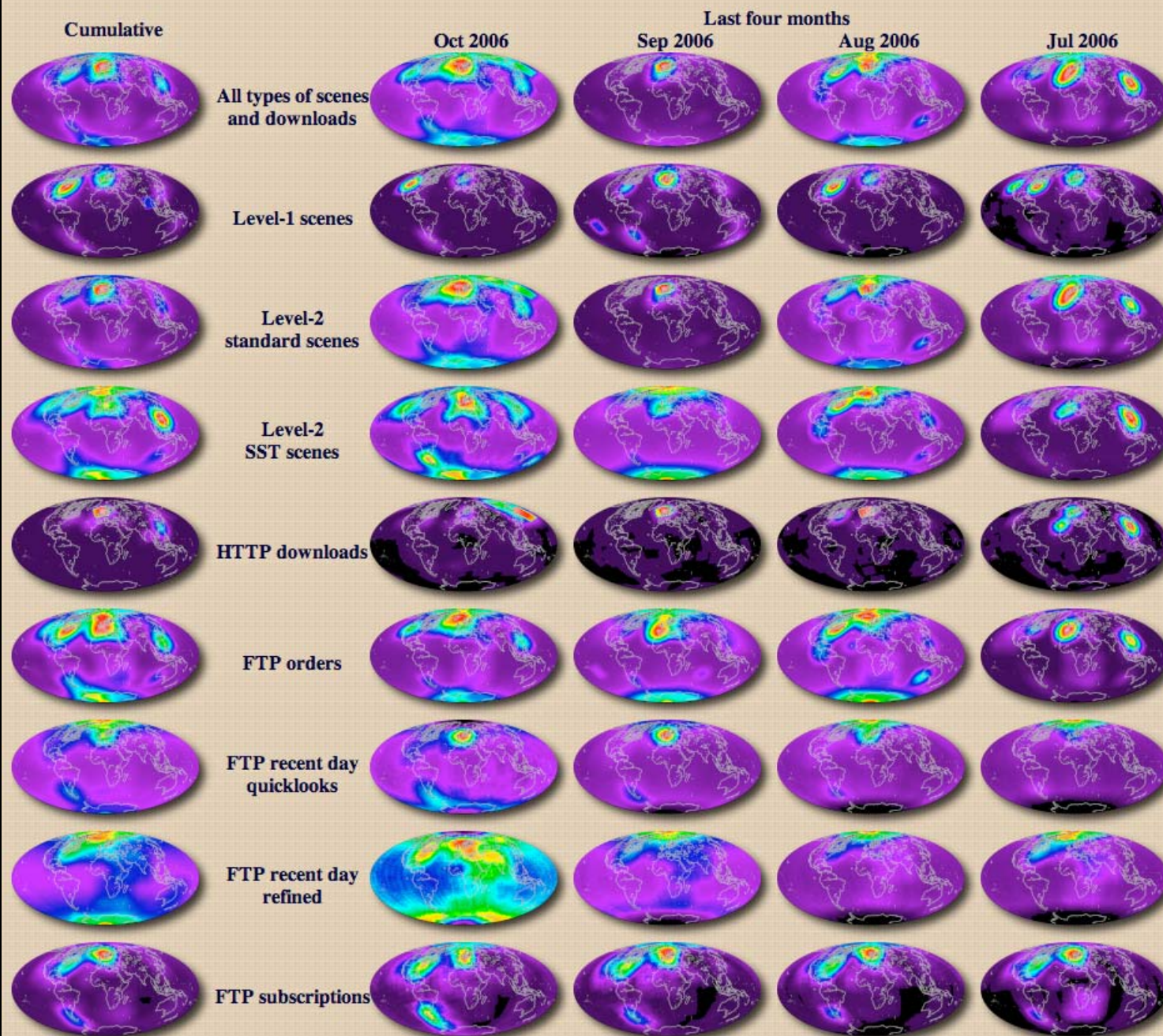


Source	L1	L2	L3	Ancillary	Totals
SeaWiFS	<b>HTTP REQ REC ARC</b> Files: 7774 723937 0 21678 GB: 202.1 7869.8 0 211.9	<b>HTTP REQ REC ARC</b> Files: 17968 1010849 0 4255 GB: 201 4083 0 44.6	<b>HTTP REQ REC ARC</b> Files: 52645 0 0 1158811 GB: 48.7 0 0 5515.1	<b>ARC</b> Files: 1379741 GB: 1378.9	<b>SeaWiFS</b> Files: 4377658 GB: 19555.1
Aqua	<b>HTTP REQ REC ARC</b> Files: 26289 127027 43023 25183 GB: 639.6 5844.3 1409.5 354.7	<b>HTTP REQ REC ARC</b> Files: 133353 780540 911603 319908 GB: 593.8 5359 6750.9 455.8	<b>HTTP REQ REC ARC</b> Files: 52816 0 0 724062 GB: 92.4 0 0 2739.7	<b>ARC</b> Files: 2082927 GB: 5581.3	<b>Aqua</b> Files: 5226731 GB: 29821
Terra	<b>HTTP REQ REC ARC</b> Files: 212 1649 39857 63949 GB: 5.9 20.2 21 58.3	<b>HTTP REQ REC ARC</b> Files: 0 0 30 25885 GB: 0 0 0.2 704.2	<b>HTTP REQ REC ARC</b> Files: 0 0 0 0 GB: 0 0 0 0	<b>ARC</b> Files: 603140 GB: 376.8	<b>Terra</b> Files: 734722 GB: 1186.6
CZCS	<b>HTTP REQ REC ARC</b> Files: 113 30009 0 0 GB: 1.5 458.6 0 0	<b>HTTP REQ REC ARC</b> Files: 118 9879 0 0 GB: 2.8 201.9 0 0	<b>HTTP REQ REC ARC</b> Files: 694 0 0 17317 GB: 0.6 0 0 34.7		<b>CZCS</b> Files: 58130 GB: 700.1
OCTS	<b>HTTP REQ REC ARC</b> Files: 60 2093 0 0 GB: 0.5 21.8 0 0	<b>HTTP REQ REC ARC</b> Files: 43 11617 0 0 GB: 0.2 26.5 0 0	<b>HTTP REQ REC ARC</b> Files: 1769 0 0 481 GB: 4.6 0 0 15		<b>OCTS</b> Files: 16063 GB: 68.6
Merged			<b>HTTP REQ REC ARC</b> Files: 29 0 0 48858 GB: 0 0 0 149.3		<b>Merged</b> Files: 48887 GB: 149.3
<b>TOTALS</b>	Files: 1112853 GB: 17119.7	Files: 3226048 GB: 18423.9	Files: 2057482 GB: 8600.1	Files: 4065808 GB: 7337	Files: 10462191 GB: 51480.7

Source	L2 SST	L2 SST4	L3 SST Day
Aqua	<b>HTTP REQ REC ARC</b> Files: 8432 269666 52175 316343 GB: 25.1 1217.3 248.2 1644.8	<b>HTTP REQ REC ARC</b> Files: 4524 13655 26207 3 GB: 6.5 51 118.4 0	<b>HTTP REQ REC ARC</b> Files: 31683 0 0 110091 GB: 85.1 0 0 999.1
Terra	<b>HTTP REQ REC ARC</b> Files: 2138 71475 809 86987 GB: 7.4 350.3 3.7 939.8	<b>HTTP REQ REC ARC</b> Files: 485 3725 23572 0 GB: 0.7 12.6 105.8 0	<b>HTTP REQ REC ARC</b> Files: 104 0 0 1300 GB: 2.2 0 0 15.9
<b>TOTALS</b>	Files: 808025 GB: 4436.6	Files: 72171 GB: 295	Files: 143178 GB: 1102.3

Source	L3 SST Night	L3 SST4 Night	Totals
Aqua	<b>HTTP REQ REC ARC</b> Files: 11051 0 0 75309 GB: 35.4 0 0 726.4	<b>HTTP REQ REC ARC</b> Files: 732 0 0 41759 GB: 10.6 0 0 493.5	<b>Aqua</b> Files: 961630 GB: 5661.4
Terra	<b>HTTP REQ REC ARC</b> Files: 211 0 0 1303 GB: 3.6 0 0 13.4	<b>HTTP REQ REC ARC</b> Files: 88 0 0 690 GB: 1.6 0 0 8.7	<b>Terra</b> Files: 192887 GB: 1465.7
<b>TOTALS</b>	Files: 87874 GB: 778.8	Files: 43269 GB: 514.4	Files: 1154517 GB: 7127.1

# Regional Download Statistics for Aqua-MODIS

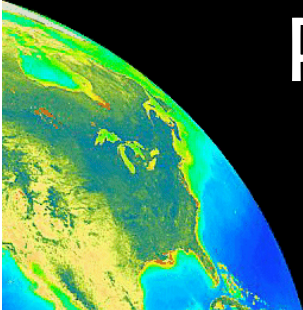




# Requirements for Success

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- Expertise: internal and external
- Infrastructure
- Data
- Communication
- Intuitive and Efficient data distribution
- Community access to data processing/analysis tools



1- Extensive user support with over 500 sites, active online Forums. > 3000 posts

2- SeaDAS ported to the Macintosh OS X including new Intel architecture. Also runs on Linux, Sun, SGI

3- Redesigned GUI and website are now much more user-friendly

4- New simple online installer and four SeaDAS ftp mirrors (Australia, Brazil, Japan, UK)

5- SeaDAS-lite option for display/analysis only (~50MB download)

6- Modis Direct Broadcast And High Resolution processing module.

7- User training workshops

SeaDAS Home Page

http://oceancolor.gsfc.nasa.gov/seadas/

# OceanColor SeaDAS

Download Help Documents Contact Links OceanColor News FAQ Forum

## SeaDAS Web

### Support

[SeaDAS Forum](#)  
[Ocean Color Forums](#)  
[Ocean Color Web](#)  
[Ocean Mailing Lists](#)

### Download and Installation

We have a new simplified [online installation](#) process. Or, you can [manually download](#) SeaDAS, and follow the [installation instructions](#).

### Satellite Data

[Data Product Specifications](#)  
[Processing Versions Chart](#)  
[Level 1 and 2 Browser](#)  
[Level 3 Browser](#)  
[Data by FTP](#)

### Ancillary Data

[MET/OZONE](#) [INFO](#)  
[NOAA OISST](#) [INFO](#)  
[Aqua ATTEPH](#) [INFO](#)  
[Terra ATTEPH](#) [INFO](#)  
[utcpole.dat](#) [INFO](#)  
[leapsec.dat](#) [INFO](#)  
[elements.dat](#) [INFO](#)

## What is SeaDAS

The SeaWiFS Data Analysis System (SeaDAS) is a comprehensive image analysis package for the processing, display, analysis, and quality control of ocean color data.

Supported satellite sensors are [MODIS](#), [SeaWiFS](#), [OCTS](#), and [CZCS](#).

- [Features](#)
- [Requirements](#)
- [Online Help](#)
- [SeaDAS FAQ](#)
- [History of Events](#)
- [References](#)

[SeaDAS Software Usage Policy](#)  
[seadas@seadas.gsfc.nasa.gov](mailto:seadas@seadas.gsfc.nasa.gov)

## What's New

### SeaDAS 5.0 released

- [MODIS high-resolution processing](#)
- [New msl12, l2bin, l3bin, smigen](#)
- [OBPG format CZCS processing](#)
- [AVHRR Version 5 display support](#)
- [New custom color LUT features](#)
- [SeaDAS benchmarking script](#)

MODIS 250m high resolution imagery

### MODISL1DB 1.3 released

MODISL1DB is for Direct Broadcast users and contains only the portions of SeaDAS for processing MODIS Aqua and Terra L0 data to L1A and L1B.

We now have 4 SeaDAS [mirrors](#) helping us to distribute SeaDAS 5.0. The OBPG would like to thank those who have so kindly donated their resources. **THANK YOU!**

Curator: [OceanColor Webmaster](#)  
Authorized by: [gene carl feldman](#)  
Updated: 17 October 2008

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