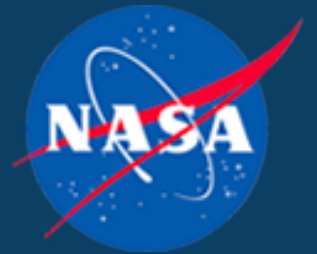
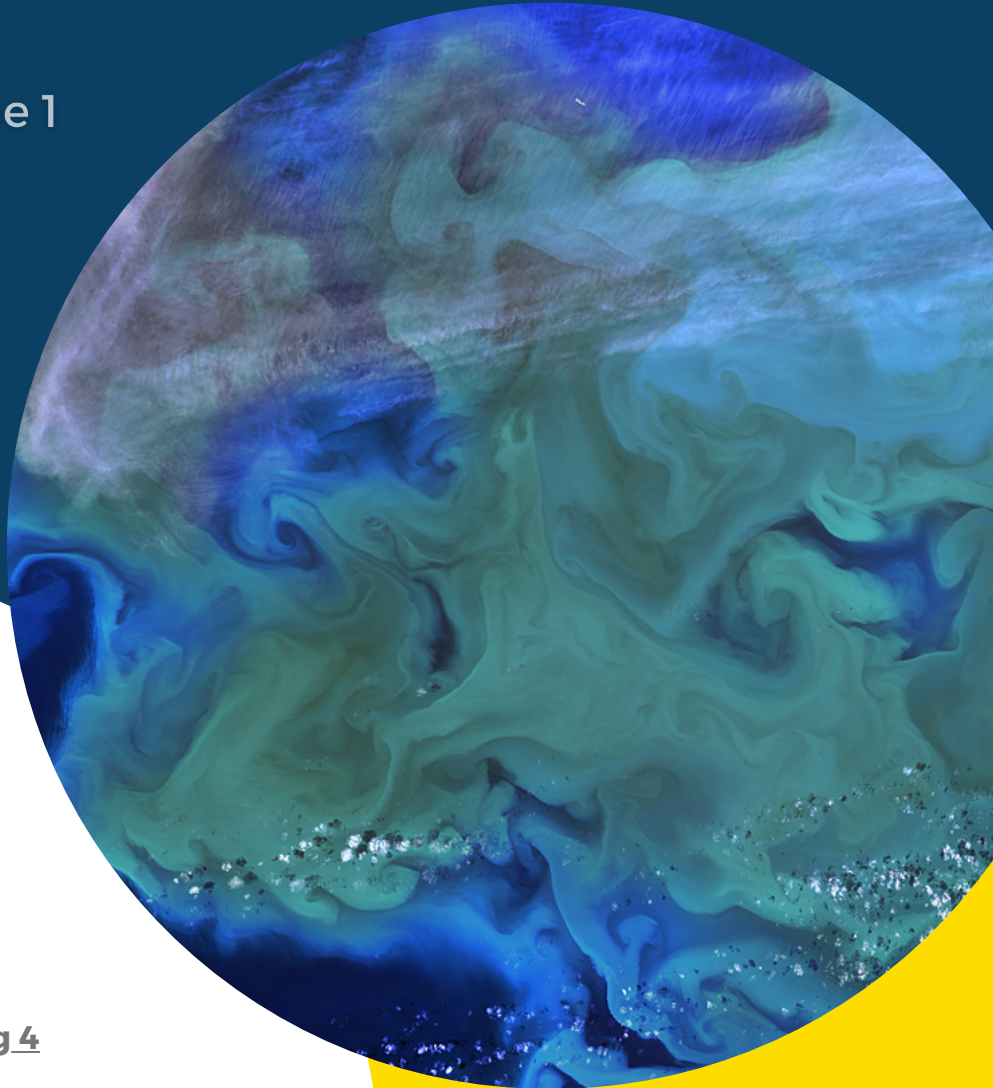


# OB.DAAC NEWS

## Quarterly Newsletter



Summer 2023, Issue 1



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ENTER

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[www.oceancolor.gsfc.nasa.gov](http://www.oceancolor.gsfc.nasa.gov)

NASA OBDAAC

# OCEAN COLOR DATA PROVIDER



## WHAT WE DO?

The NASA Ocean Biology Distributed Active Archive Center (OB.DAAC), located at NASA Goddard Space Flight Center (GSFC), under Ocean Biology Processing Group (OBPG) is part of NASA's Ocean Ecology Laboratory (OEL).

The OB.DAAC functions as one of twelve Distributed Active Archive Centers (DAACs) operated by NASA's Earth Observing System Data and Information System (EOSDIS), a key core capability in the Earth Science Data Systems (ESDS) Program. Formally recognized in 2013 after nearly a decade of serving DAAC functions under the Ocean Biology Processing Group, the OB.DAAC is responsible for dissemination and discoverability of ocean color data products from ocean color capable US and international sensors. The OB.DAAC is proud to support national and international science communities, including investigators funded through NASA to conduct research related to aquatic biology, biogeochemistry and ecology, and groups such as the International Ocean Colour Coordinating Group (IOCCG).

Our holdings include a mixture of historical and current missions, as well as data from both NASA and partner space organizations, including PACE, SeaWiFS, MODIS, VIIRS, MERIS, OLCI, HICO, GOCI, Hawkeye, CZCS, OCTS, etc.



## DATA DISTRIBUTION

Our [data access points](#) allow users to choose the method of obtaining data they prefer.



## ANALYSIS & VISUALIZATION

With [SeaDAS](#) software users can analyze data and visualize ocean color features of interest.



## IN SITU DATA ARCHIVE

The science community can access and contribute to in situ data through [SeaBASS](#) archive.



## USER SERVICES

Web support, [forums](#), tools development

# WHO WE ARE



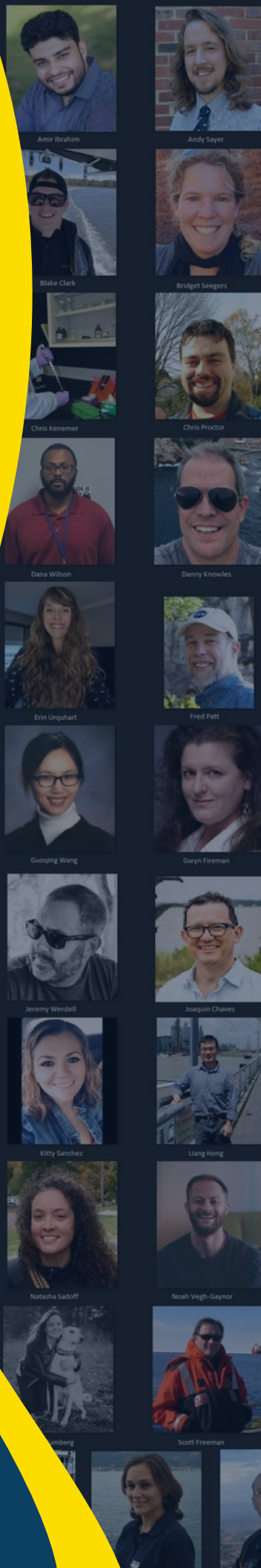
Sean Bailey, Ocean SIPS and OB.DAAC Manager

Sean is the ocean SIPS and OB.DAAC manager. His duties as the DAAC manager include the management and distribution of the data products produced by the OBPG, the in situ archive component (SeaBASS), and the OBPG science software support team, including the staff responsible for the development and maintenance of the SeaWiFS Data Analysis System (SeaDAS).

Alicia Scott, OB.DAAC Deputy Manager



As the Deputy DAAC Manager, Alicia acts as the liaison between external teams and DAAC development teams, handles metadata production for OB.DAAC collections, facilitates improvements to web tools, oversees web development initiatives, and manages data preservation items for missions.



# BACKGROUND

## WHAT IS OCEAN COLOR?

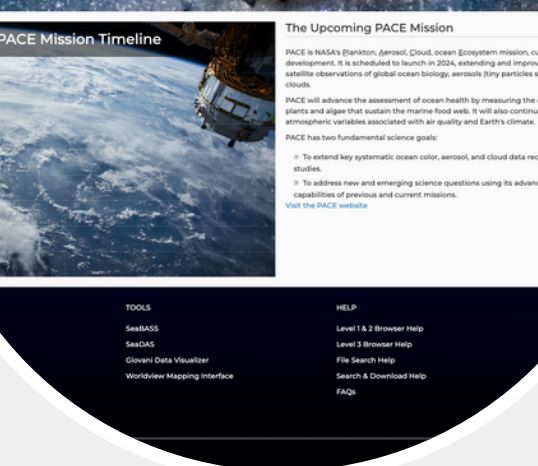
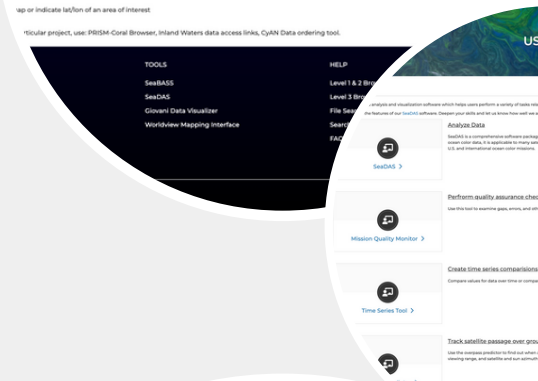
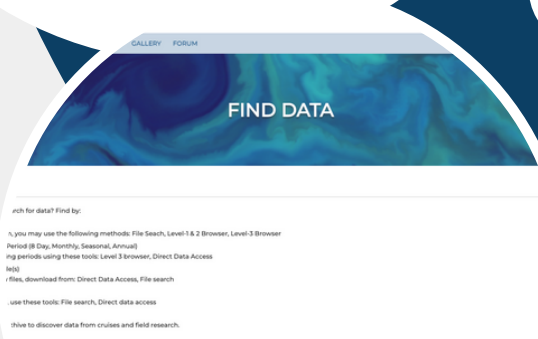
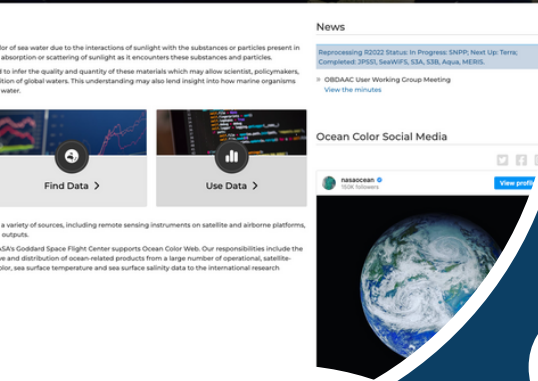
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Ocean Color is the apparent hue, shade, or tone color of sea water due to the interactions of sunlight with the substances or particles present in the water. The color of the ocean is affected by the absorption or scattering of sunlight as it encounters these substances and particles. The wavelength and color of the water can be used to infer the quality and quantity of these materials which may allow scientist, policymakers, and society, as a whole, to understand the composition of global waters. This understanding may also lend insight into how marine organisms thrive or decline under changing conditions of the water.

## WHY IS IT IMPORTANT?

Scientists use ocean color data to study:

- fundamental questions about phytoplankton blooms, the aquatic food web, and fisheries;
- the storage of carbon in the ocean and the role of the ocean in Earth's climate; and
- ocean health and water quality to assist resource managers.



# Web Rebrand

# Ocean Color

## OBJECTIVES

Bring all data, tools and content under one umbrella

Accommodate new users as well as those familiar with OB.DAAC

Modern look and feel

## NEXT UP:

- Ocean Data Access Portal
- SeaDAS Software Website
- SeaBASS In situ Archive

# SeaDAS 8.3.0

Accelerate your satellite  
image analysis capabilities

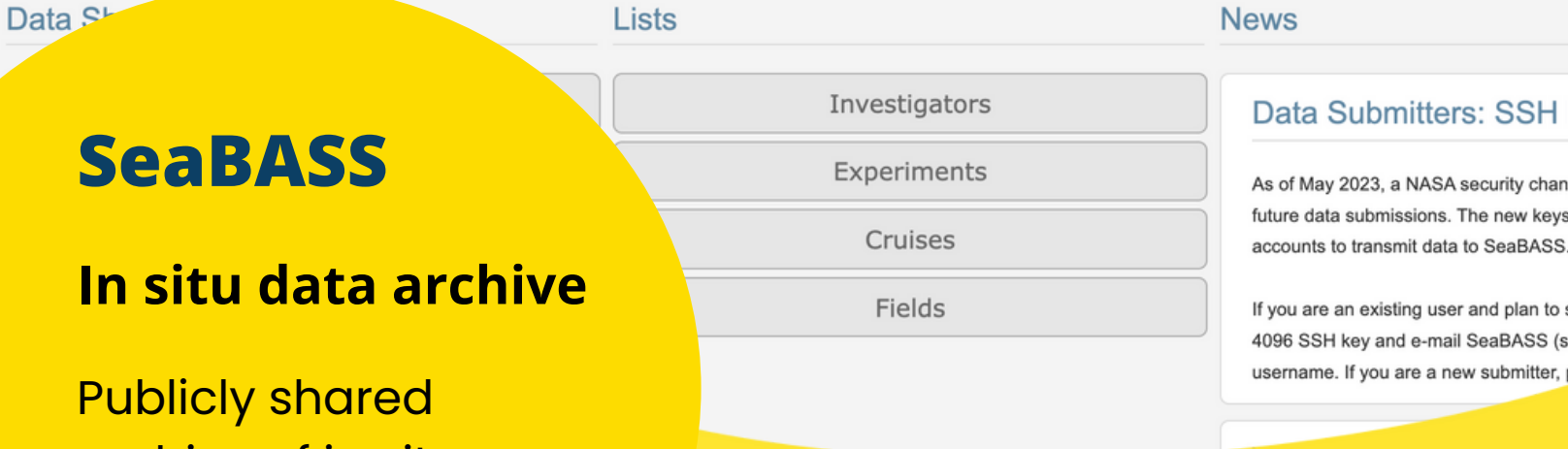
## FEATURES

- SeaDAS 8.x is a significant modification over SeaDAS 7.5.3 regarding the core components and inner framework of the GUI.
- The latest version of SeaDAS is 8.3.0, which contains SeaDAS Toolbox (version 1.3.0) and Sentinel-3 Toolbox (version 9.0.3).
- OCSSW processing in Windows is supported with SeaDAS version 8.1.0 and above.



[Download](#)

Welcome to the SeaWiFS Bio-optical Archive and Storage System (SeaBASS), the publicly shared archive of in situ oceanographic and atmospheric data maintained by the NASA Ocean Biogeochemistry Program. For information about preparing files for submission to SeaBASS, refer to "Contribute Data."



## SeaBASS

### In situ data archive

Publicly shared archive of in situ oceanographic and atmospheric data.

## Data and Services:

In situ bio-optical data submission and access ✓

Validation search ✓

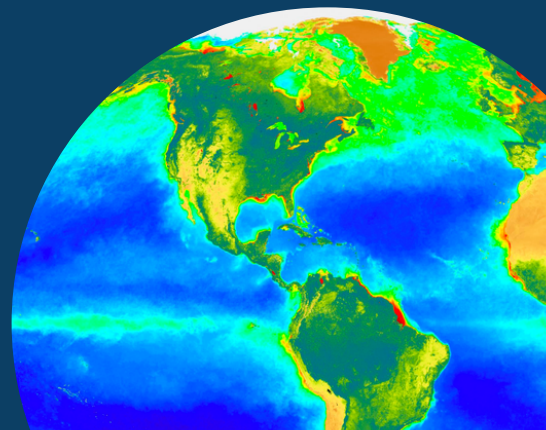
*match-ups between water measurements and coincident satellite products*

Regional Time Series Tool ✓

Data subscription ✓

**Download/Contribute Data**

<https://seabass.gsfc.nasa.gov/>



# UPCOMING EVENTS

## SeaDAS trainings and presentations

- **Data processing and analysis tools: SeaDAS**  
*TREVOR Symposium, training course 'Satellite-based tools for investigating aquatic ecosystems'*  
Jul 12, 2023, online
- **SeaDAS training course**  
*IOCS Symposium, IOCCG*  
November 14-17, 2023, St. Petersburg, Florida, USA

## Ocean color related conferences and workshops

- **International Ocean Colour Science Meeting 2023**  
November 14-17, 2023, St. Petersburg, Florida, USA
- **2023 PACE Applications workshop**  
September 6-7, 2023 at 10:00AM ET, online
- **ASLO Aquatic Sciences Meeting 2023**  
June 4-9, 2023, Palma de Mallorca, Spain

## Our Contact

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