



Plankton, Aerosol, Cloud, ocean Ecosystem Science and Applications Team

PACE SAT Meeting

1:00 -1:15 Project Update and Points of Information (Werdell, Dierssen)

1:15-1:30 Laura Lorenzoni, PACE Progress reports

1:30-1:45 Annette deCharon – PACE Website

1:45-2:15 Dave Haffner. NASA. Ozone products from OCI

2:15-2:30 Heidi Dierssen, UConn. Hyperspectral review paper in press, if time.

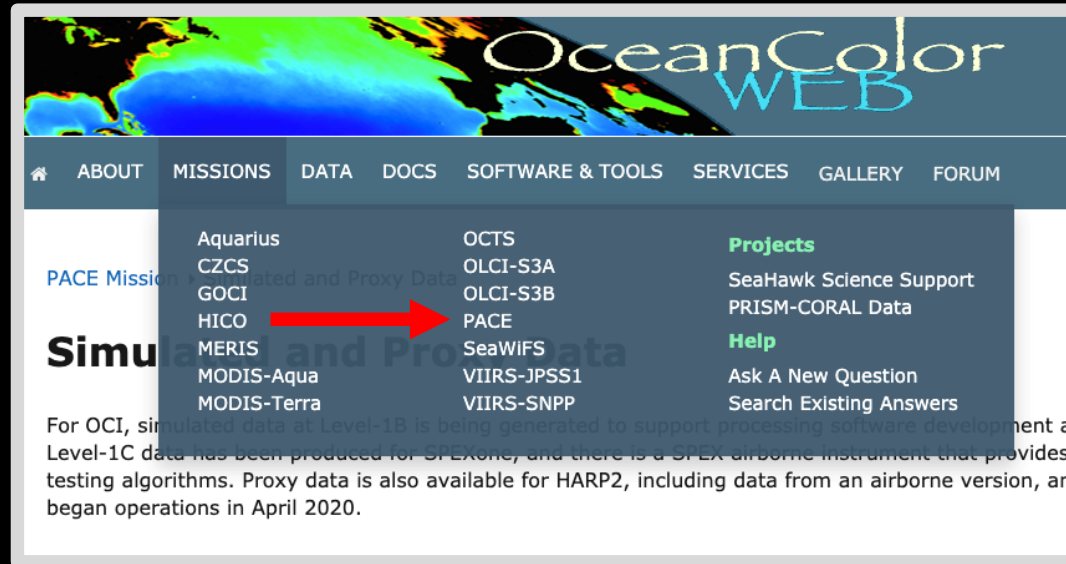
PACE mission update

to the SAT on 21 May 2021

news

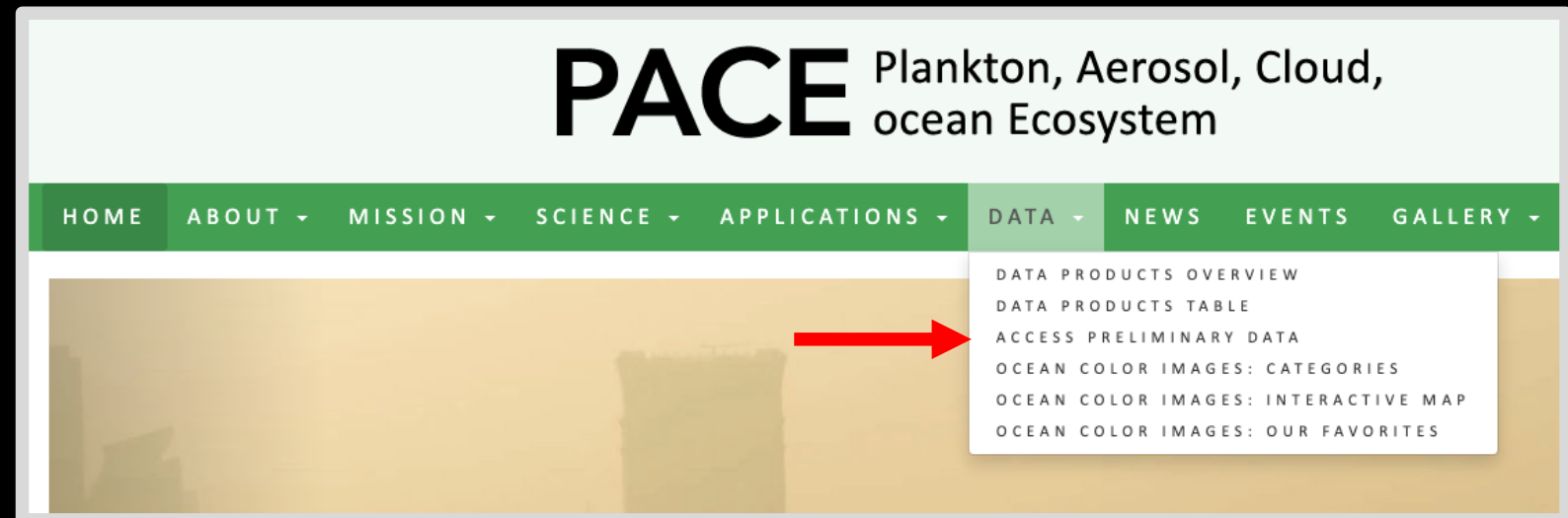
- pyTOAST (OCI L1B simulations) released (see email several weeks ago)
- 16 SPEXone simulations released
- Landing page for instrument info available (e.g., **simulations**, RSRs, format specs docs)
 - <https://oceancolor.gsfc.nasa.gov/data/pace/>
- Hyperspectral In situ Support for PACE (HyperInSPACE) software released
 - <https://github.com/nasa/HyperInSPACE/>
- Deputy Applications Coordinator to be hired ~this month
- Terrestrial applications survey released
- Flight hardware in development across all elements (OCI, MAPs, spacecraft, GS, ...)

landing page for instrument info

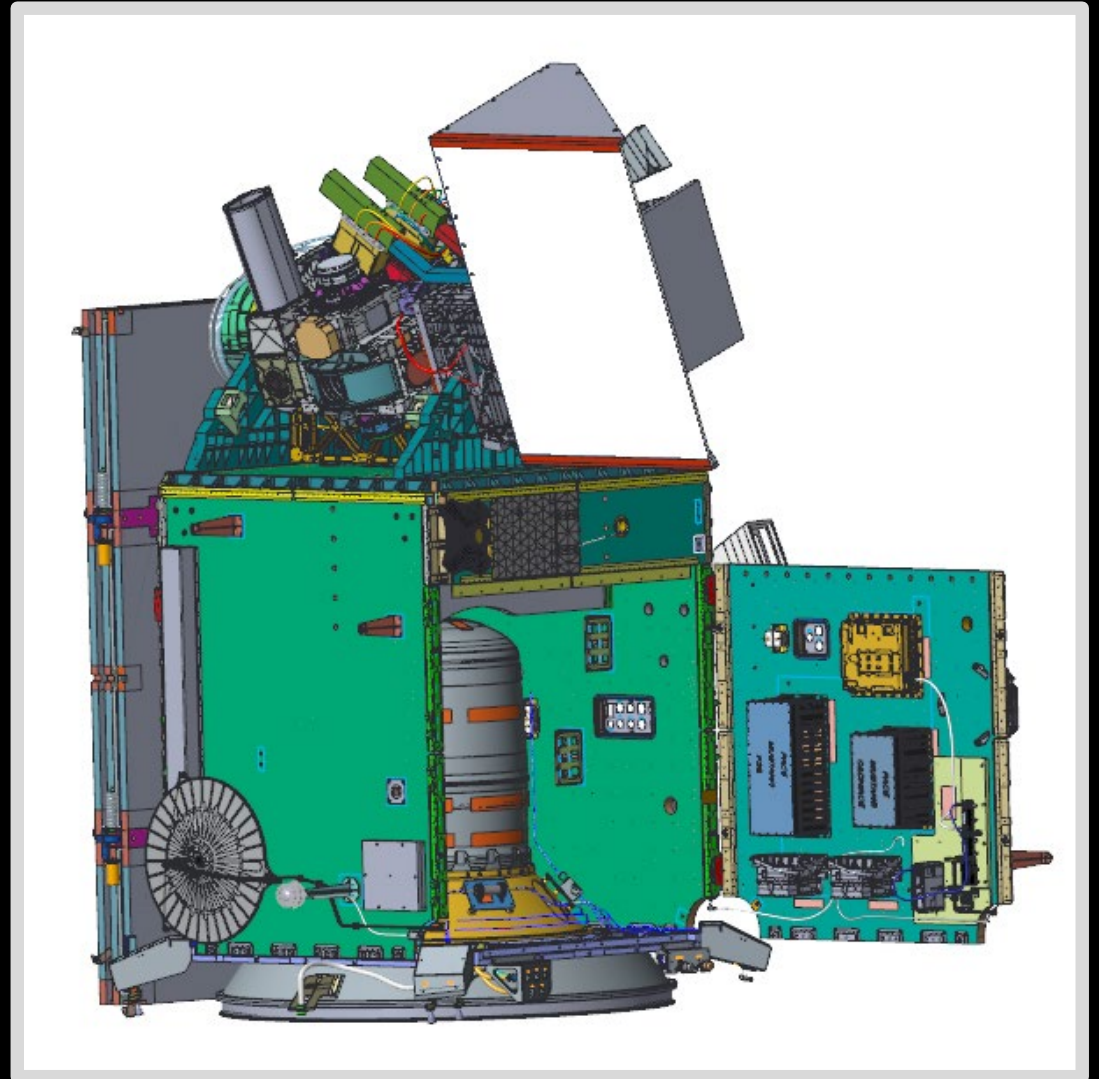
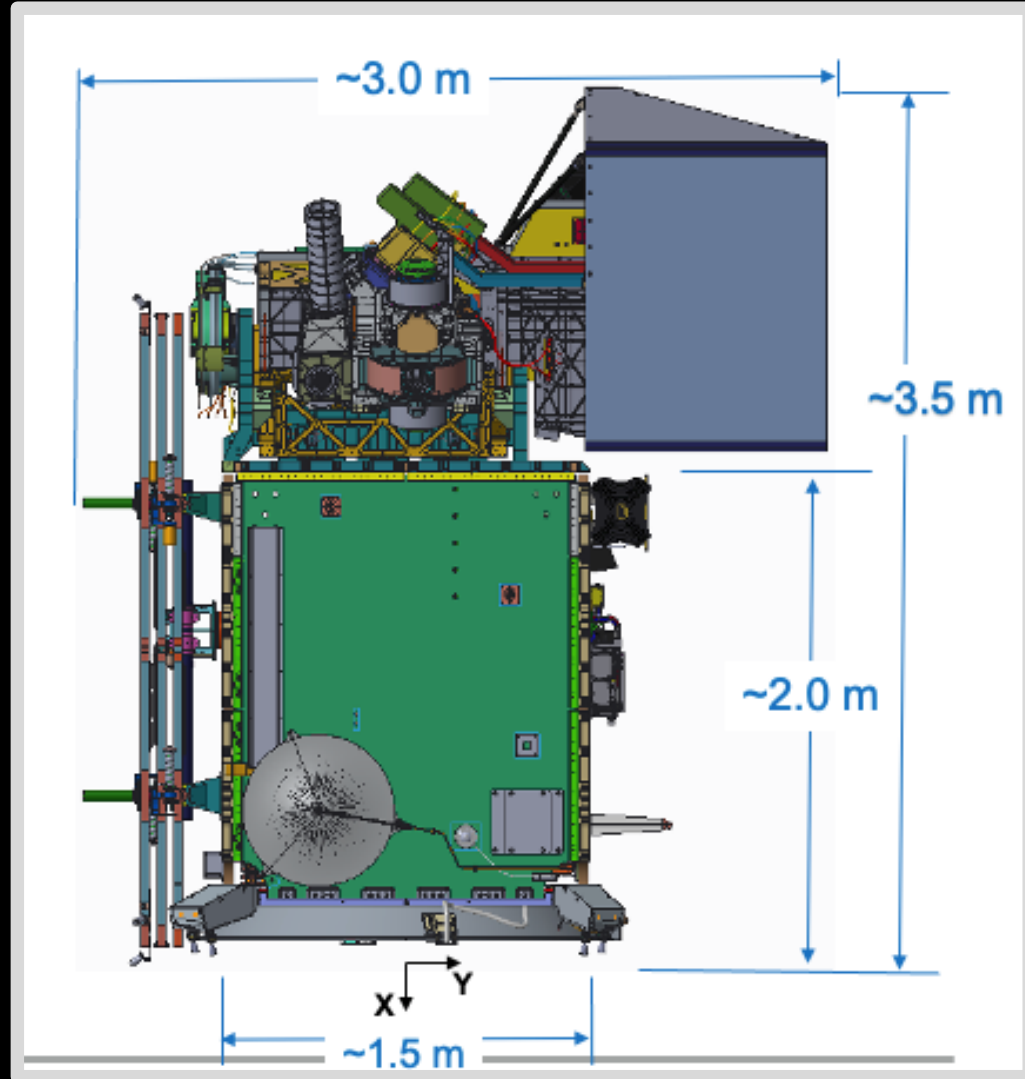


<https://oceancolor.gsfc.nasa.gov>

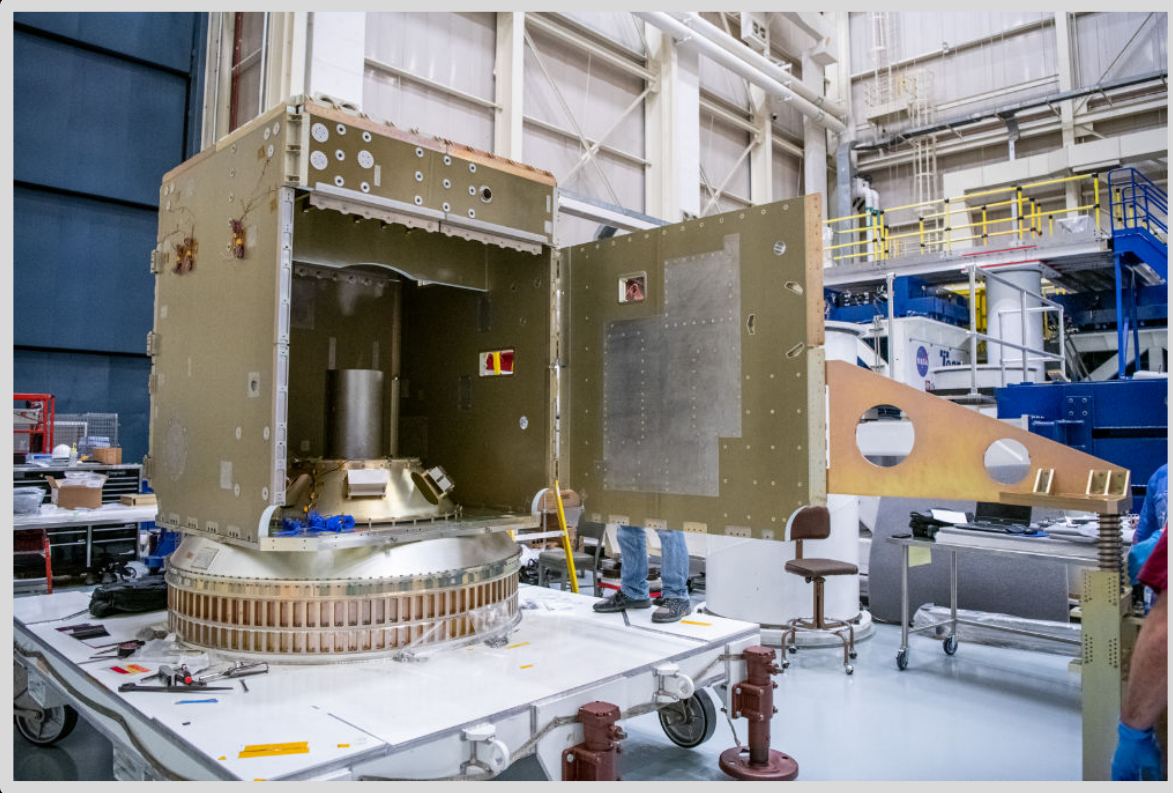
<https://pace.gsfc.nasa.gov>



spacecraft progress



spacecraft progress



1. Second Meeting Logistics

- Mystic CT and University of Connecticut
- Proposed HYBRID/IN PERSON & ONLINE
- **6-8 October 2021. Wed.-Fri.**



Registration and Housing in Mystic CT

- Working with UCONN Conference Services
- Registration Fee will be charged
 - Cover Lunches and Dinners, Coffee breaks
 - Meeting space, audiovisual, etc...
- Lodging and Transportation will be your own responsibility
 - May provide some group rates at select hotels.

Format

- Each Team
 - Upload 15 min. prerecorded talks 2 weeks ahead of time
 - Each team will present a 1-slide overview during meeting
- Summaries
 - Mission/engineering updates and summaries
 - Cal/Val Projects
 - Each Subgroups
- Breakout into working groups
 - Action Items
 - Discussions

OCEAN OPTICS XXV

OCTOBER 2-7, 2022 | QUY NHON, BINH DINH, VIETNAM

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ICISE center - view from the east

Many Special Sessions proposed for Ocean Sciences Hawaii in February

- Several PACE Related Sessions proposed.
- Proposed combined Townhall that is linked to PACE, SBG, GLIMR

Special Issues

Current Status

Title: Aquatic carbon stocks and fluxes: The big picture from remote sensing

Journal: Earth-Science Reviews, Elsevier, IF 9.7

Managing Editor: Laura Lorenzoni

Guest Editors:

David Antoine, Curtin University, Australia

Yan Bai, Second Institute of Oceanography, China

Michael Behrenfeld, Oregon State Univ, USA

Robert Brewin, University of Exeter, UK

Raymond Najjar, Pennsylvania State University, USA

Maria Tzortziou, The City College of New York, USA

Submission:

Website: <https://www.editorialmanager.com/earth/default.aspx>

During submission, upload manuscripts under VSI:LorenzoniAquatic

Final deadline for submission: March 1, 2022

Final deadline for acceptance: December 1, 2022

Special Issue Announcement

Aquatic carbon stocks and fluxes: The big picture from remote sensing

We would like to invite contributions to a special edition - Aquatic carbon stocks and fluxes: The big picture from remote sensing – to be published in Earth-Science Reviews.

Aquatic landscapes contribute 99% of the habitable space on Earth. In these watery realms, microscopic and macroscopic organisms conduct half of the biosphere's photosynthesis, physical and -chemical processes remove billions of tons of carbon dioxide from the atmosphere, and complex food webs both produce and consume climate-sensitive compounds, some of which are transported into deep reaches of the ocean while others can enter the atmosphere to influence a variety of processes. In recent decades, our understanding of carbon cycling, biogeochemistry, ecology, and interactions of global aquatic systems with the atmosphere has greatly improved through observations using airborne and satellite remote sensing systems. With these observations, we have realized a revolution in our quantitative assessment of carbon stocks and fluxes in aquatic systems. While a rich scientific literature exists detailing these advances, we lack a compiled synthesis of developments, findings, and future directions that is accessible both to researchers in aquatic sciences and the broader scientific community. To address this shortcoming and to broadly raise awareness on the critical role aquatic systems play in the functioning of the Earth system, we are calling for contributions of manuscripts that synthesize our current understanding of carbon stocks and fluxes in aquatic systems, as well as on directions for future advancements, with a particular focus on globally relevant topics that rely on the use of remote sensing data, including integration with in-situ measurements and models. The outcome of this effort will be a collection of invited and contributed papers that summarize the current state-of-the-science and establish a roadmap for future developments.



Special Issue "Hyperspectral Imagery for Gross Primary Production"

- [Print Special Issue Flyer](#)
- [Special Issue Editors](#)
- [Special Issue Information](#)
- [Keywords](#)
- [Published Papers](#)

A special issue of *Remote Sensing* (ISSN 2072-4292). This special issue belongs to the section "Environmental Remote Sensing".

Deadline for manuscript submissions: 30 November 2021.

[https://www.mdpi.com/journal
y_Production](https://www.mdpi.com/journal/y_Production)

_Primar

- The objective of this special issue is to compile state-of-the-art research on varied terrestrial ecosystems such as forests, meadows, peatlands, and **marine ecosystems such as seagrasses, wetlands, and inland and coastal waters** with the aim to address various aspects of GPP estimation using hyperspectral imagery. Local to regional monitoring activities, laboratory and/or field experimentations are welcome as well as review contributions and papers describing new measurement concepts/sensors.

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Laura Lorenzoni, Progress Reports

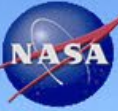
- Due shortly
- Individual meetings being setup with PIs to discuss progress.

In terms of structure, there is no specific format, but we would like to see in the report:

1. Cover page with the name of PI and award number; if award has subawards, those need to be listed on the cover page as well, with PI and subaward numbers. (this is a NSSC requirement).
2. Brief intro and project objectives.
3. Activities accomplished during the year (major activities/results, and how this compares with what was initially proposed).
4. Setbacks/delays/issues, if any. If delays, how will this impact the project/timeline. Mitigation?
5. Proposed activities for next year.
6. Dissemination of results (current/planned).

Annette deCharon, Website

Dave Haffner, Ozone



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Science and Applications Team

NEXT PACE SAT Meeting 18 June 2021