

PACE Science Team Workshop
January 20-21, 2016
Beckman Institute, Caltech, Pasadena CA.

Workshop Agenda

Wednesday, Jan. 20

8:30-8:35	Welcome and meeting logistics (Lorraine R.)
8:35-8:45	Introductions (Emmanuel B.) – who is here?
8:45-9:05	NASA HQ perspective on timetable and design (Paula, Hal).
9:05-10:30	Jeremy W. and his team give a 30-45 minute update followed by a discussion of existing and upcoming science analyses and trade studies.
10:30-10:45	Coffee break
10:45-11:15	<p><u>Applications</u></p> <p>Maximizing the societal benefits of PACE IOP data by actively linking the mission to its applications. Maria T.</p> <p>Maximizing the societal benefits of PACE atmospheric data by actively linking the mission to its applications. Ali O.</p>
11:15-12:30	<p><u>Science impacts of OCI design:</u></p> <p>PACE Applications to Case II Waters: Quantifying the Uncertainty in Inherent Optical and Water Constituent Properties and the Impact On Remotely Sensed Ocean Color. Steve A.</p> <p>Phytoplankton Composition Algorithms for PACE. Cecile R.</p> <p>Development of Datasets and Algorithms for Hyperspectral IOP Products from the PACE Ocean Color Measurements. Zhongping L.</p> <p>Retrieval Studies In Support of Cloud Property Products from the PACE Ocean Color Imager. Steven P.</p> <p>How Useful Will the PACE UV Bands be for IOP Retrievals and Atmospheric Correction? Stephane M.</p>
12:30-13:30	Lunch
13:30-14:00	Revisit Jeremy's questions and Science Team answers.
14:00-14:30	Polarimeter report and its conclusion/ Polarimetry or multi-angle studies, in progress. Lorraine R. and others.
14:30-15:45	<p><u>Science impacts of sensor(s) design:</u></p> <p>Atmospheric Correction Over Bright Water Targets with Non-Negligible Radiances in the Near Infrared. Heidi D.</p> <p>Evaluation of UV Atmospheric Correction in the Presence of Absorbing Aerosols, and Quantification of Enhancements Provided by Multiangle, Polarimetric and Oxygen A-Band Observations. Olga K.</p> <p>Atmospheric Correction for Retrieval of Ocean Spectra from Space (ACROSS). Jacek C.</p> <p>Bayesian Methodology for Atmospheric Correction of PACE Ocean-Color Imager. Robert F.</p> <p>Understanding Natural Variability of VSFs and Its Impact on Biogeochemical Retrieval from Ocean Color. Xiaodong Z.</p>
15:45-16:05	Coffee break
16:05-17:00	Open and summary discussions on instrument concepts, discipline and science team synergies, and gaps. Moderated by Emmanuel B.
18:30	Adjourn for dinner

Thursday, Jan. 21

8:30-8:35	Welcome and meeting logistics for day 2, Lorraine R. and Emmanuel B.
8:35-9:50	<p>Science Team presentations (5)</p> <p>Improving IOP Measurement Uncertainties for PACE Ocean Color Remote Sensing Applications, Jim S.</p> <p>Improving Retrieval of IOPs from Ocean Color Remote Sensing Through Explicit Consideration of the Volume Scattering Function. Mike T.</p> <p>A Global Database of High Horizontal Resolution IOPs for Validation of Remotely Sensed Ocean Color. Emmanuel B.</p> <p>Quantifying the Spectral Absorption Coefficients of Phytoplankton and Non-Phytoplankton Components of Seawater from in Situ and Remote-Sensing Measurements. Dariusz S.</p> <p>Quantifying Uncertainties in Phytoplankton Absorption Coefficients for Accurate Validation of the PACE Ocean Color Sensor: Moving Towards Satellite Retrieved Phytoplankton Functional Types (PFTs). Collin R.</p>
9:50-10:10	Coffee break
10:10-11:10	<p>Science Team presentations (4)</p> <p>Improved Satellite Ocean Color Retrievals of Ocean Inherent Optical Properties and Biogeochemical Properties Utilizing the Capabilities of PACE. Greg M.</p> <p>Derivation of Inherent Optical Properties from Satellite Top of Atmosphere Measurements in Optically Complex Waters. Susanne C.</p> <p>Hyperspectral and Multispectral Atmospheric Correction Algorithms for Supporting the NASA PACE Mission. Bo-Cai G.</p> <p>Aerosol Absorption Retrievals from Base-Line OCI Observations: Risk Reduction for Atmospheric Correction of the PACE Mission. Lorraine R.</p>
11:10-12:25	<p>Group reports (3)</p> <p>IOP datasets: Cecile R. and Zhongping L</p> <p>Available datasets with polarimeter data – Kirk K. and Jacek C.</p> <p>Implementing heritage AC algorithm for hyperspectral Rrs retrieval: Bryan F and Amir I.</p> <p>Benchmark polarized modeling: Jacek C et al.</p>
12:30-13:30	Lunch
13:30-14:20	<p>Group reports (3)</p> <p>Methodology for IOPs – state-of-the-art: Dariusz S., Collin R., Mike T. and Jim S.</p> <p>Environmental methodology – Steve A., Emmanuel B.</p> <p>Inversions from Rrs to IOP – state-of-the-art: Lachlan M. and Jeremy W.</p>
14:20-15:20	Break out into separate rooms for IOP and AC individual group discussions.
15:20-15:40	Coffee break
15:40-16:40	Break out into separate rooms for Synergistic IOP-AC subgroups.
16:40-17:10	Report from PACE-ST (due in a 18mo +). What should it include, who should contribute to what sections, mechanism to spread the work and get there with consensus and on time. Emmanuel B. and Lorraine R.
17:10	Adjourn for dinner