Breakout Workshop:
Ocean Colour Satellite Sensor Calibration

Co-Chairs:
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Description

This session is a meeting of the IOCCG Task Force on Ocean Colour Satellite Sensor Calibration. The Task Force is composed of Space Agency calibration and characterization experts. The Task Force presents recent advances and challenges in the pre-launch and on-orbit calibration of ocean colour satellite sensors. The task force focuses on the delivery of highly accurate top-of-atmosphere radiance (or reflectance) products based on direct instrument calibrations. To note, the application of system vicarious gains or water-leaving radiance specific issues are not within the scope of the Task Force.

The session will be structured as follows: presentations by calibration experts (with a length of about 10-15 minutes) will be followed by discussion among all the session participants. We expect to have at least 5 presentations in this session. At the end of the session, we will reserve time to discuss future activities of the Task Force.

Objectives

One of the main objectives of this session will be the review of the results of the pre-launch calibration of the Ocean Color Instrument on the PACE mission, which is scheduled to launch early 2024. The other main objective will be calibration issues of current ocean colour satellite sensors such as GOCI-II, MODIS, OLCI, SGLI, and VIIRS. The third main objective of this session will be the development of new ocean colour satellite sensors, such as A-OLCI Next Generation, and the associated instrument design and calibration challenges as well as discussions around the new TSIS solar irradiance spectrum.