



Ocean Colour Satellite Sensor Calibration - Introduction

**Breakout Session at IOCS 2023 of the IOCCG Task Force
“Ocean Colour Satellite Sensor Calibration”**

Gerhard Meister, NASA Code 616

November 15th, 2023; IOCS 2023, St. Petersburg, FL



Agenda:

2:30 Gerhard Meister: Introduction

2:40 Gerhard Meister: OCI on the PACE mission: prelaunch calibration overview

2:55 Jeff McIntire: Pre-launch Measurements of PACE OCI Response Versus Scan Angle

3:10 Shihyan Lee: PACE OCI pre-launch crosstalk characterization

3:25 Ludovic Bourg: OLCI Level 1 Processor & Products Recent and Coming Evolutions

3:45 Break

4:00 Jack Xiong: NOAA-21 Reflective Solar Bands Calibration and Performance

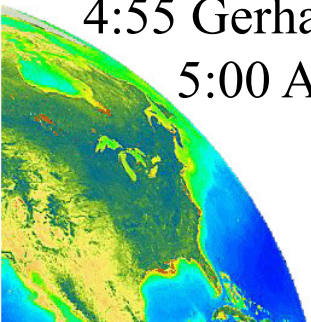
4:15 Myung-Sook Park: GOCI-II calibration for long term data stability

4:30 Hiroshi Murakami: Offset correction

4:40 Robert Frouin: Crosscalibration of ocean color sensors using TOA radiances from geostationary sensors

4:55 Gerhard Meister: Outlook

5:00 Adjourn

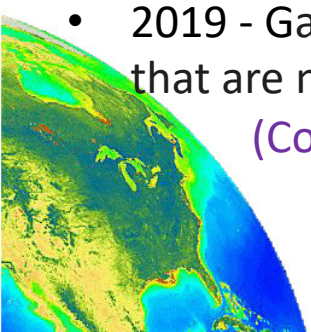


Previous Calibration Task Force Recommendations:

- 2013 - Calibration teams from each of the current and future ocean-colour sensor are encouraged to join the international collaborative effort GSICS (Global Space-based Intercalibration System) to help intercalibrate TOA radiances for different low Earth orbit sensors. (Ongoing? How many in 2022 or 2023?)
- 2015 - The interpretation of long-term trends in ocean color products should consider the calibration uncertainty in any assessment (Action to the users?)
- 2017 - Promote consistency in pre- and post-launch sensor calibration across multiple missions and multiple space agencies to enable robust blending of data products from a constellation of satellites. (Ongoing?)
- 2019 - Every mission should evaluate if for a newly launched sensor, a tandem flight is possible to evaluate calibration consistency (Ongoing?)
- 2019 - Gain calibration trends should not contain discontinuities that are not clearly supported by calibration measurements (Completed?)

Status options:

- No action needed
- Unmeasurable
- Unfulfilled
- Partial
- Ongoing
- Completed

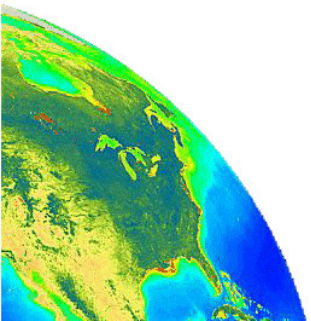


New Calibration Task Force Recommendations:

- To be discussed at the end of this session.

SMART by Cara Wilson:

- Specific: who and what?
- Measureable: by how much?
- Achievable: how?
- Relevant: why?
- Time-bound: when?



Task Force Organization:

- Task Force used to have 3 co-chairs: Ewa Kwiatkowska, Bertrand Fournie, Gerhard Meister
- Bertrand has stepped down
- Anyone interested in becoming a co-chair?

