

# OCEAN OPTICS XXIV

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<https://oceanopticsconference.org>

Wednesday, October 10

Poster Session 3

16:00–18:00

## **Poster 210**

### **DEVELOPING A COMMUNITY OF PRACTICE FOR APPLIED USES OF FUTURE PACE DATA TO ADDRESS FOOD SECURITY CHALLENGES**

Over the past 20 years, continuous ocean color satellite measurements have transformed our understanding of processes that support life in the ocean and improved our ability to monitor critical ecosystems. Historical ocean color satellite measurements yielded valuable biological information such as the concentration of chlorophyll. The Plankton, Aerosol, Cloud, ocean Ecosystem (PACE) mission is building advanced instruments to optimize ecosystem monitoring. Combining higher spectral resolution data from PACE with information from other satellites, in situ measurements and models, will enable identification and tracking of marine biological indicators and their response to multiple stressors to guide sustainable management and conservation efforts. We describe early efforts to engage a community of practice around food security to increase satellite data product use in support of resource management, business decisions, and policy analysis. Understanding and considering the needs of applied researchers as well as non-traditional users of satellite data early in the PACE mission-design process will ultimately broaden the base of informed users to improve planning and preparation and mitigate food insecurity.

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