Breakout Workshop:

Inventory of current ocean colour mission validation activities

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Description

There are multiple international ocean color missions on-orbit and in-formulation (e.g., GCOM-C, Senitel-3A/B, VIIRS, PACE). Each mission has its own dedicated validation program to ascertain data product quality and provide confidence to the user community. Successful validation programs are key to ascertain if prescribed mission requirements are met. There are currently multiple validation programs run concurrently throughout the world with data stored in various data repositories.

As the collective international ocean color community has not met in-person for several years, this workshop aims to take an inventory of current validation activities to identify potential gaps/opportunities and learn how we might assist each other. For example, there may be measurements or instruments that some groups require that could be resolved by a collaboration. There are also a number of novel technologies, including hyperspectral sensors, and sampling strategies being deployed such as rapid sampling and in-water autonomous platforms. The data richness of these approaches lends themselves well to validation, however, the capabilities and benefits may not be broadly familiar.

In this workshop we are interested in taking stock of what activities are occurring in the near-term with a focus on biogeochemical measurements (e.g., HPLC, POC, PIC, Kd), apparent optical properties (AOPs, Kd), and inherent optical properties (IOPs). We hope to identify: (i) gaps in validation campaigns, (ii) geographic domains being sampled, (iii) new technologies, (iv) innovative sampling strategies, and (v) areas where we can collaborate and/or share resources to achieve collective objectives.

Key Questions

1. What is the current state of international validation programs?
2. What current gaps and opportunities exist?
3. 3. Where can we collaborate/share resources for mutual benefit?