



Research to Operations and Applications Breakout Session #6 Report

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Defined "Operational" Extending the paradigm



- Routine
- Robust
- Well-described
- Consistent
- Includes NRT and high quality delayed-mode and long term consistent time series
- "Fit-for-purpose" (i.e., the right product to do the job)





Workshop Objective

Where are the biggest gaps or obstacles in achieving fit-for-purpose OC data that meet the needs of operational users and how can we close these gaps and reduce obstacles?

- data quality
- value-added products
- data availability, access and discovery
- documentation, training and outreach
- ease of use, inter-operability, standardization, tools

To help to answer this question, requirements and experiences will be discussed based on operational application cases, such as harmful algal bloom forecasting, coral reef and fisheries management, ocean prediction, and various commercial applications.





3 Key Questions

- 1) What are the user requirements for operational OC products and where should the main research and technical efforts be concentrated?
- 2) What developments in approaches, techniques and/or tools are needed to address users at multiple levels of sophistication, how best to supply necessary details while not overwhelming as needed for free and open access to data through multiple outlets and serving distinct and diverse audiences?
- 3) What mechanisms are useful to bring developers and users together at early stages and how best to engage parties to achieve successful implementation?





Topics discussed (and not discussed) Topics discussed

- Need for low latency NRT within 2-3 hours with data quality adequate for purpose (case-by-case)
- Cross-mission continuity datasets
- More value-added products, e.g., Primary Productivity, Anomalies (especially for chl and SST)
- Better inter-parameter viewing, querying, data access
- On-the-fly processing (vs. "download everything"); provide tools for online analyses
- The continuity of mission long and fusion datasets (e.g., one daily composite)
- Serving model results and downstream applications (but see bullet #2)
- *Metadata (describe the dataset "well" and "interoperably", i.e. GHRSST?);
- *Describe the quality the dataset (i.e., performance, uncertainties, for what purposes are the data "fit")
- *TRAINING, TRAINING, TRAINING (e.g.: weather service approach, product training for commercial users





3 Bullets for IOCCG

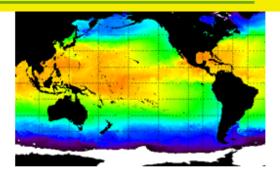
- 1. PRODUCTS: Users want single consistent and stable product time series, long-term to NRT, merged from multiple instruments which are regionally adjusted to assure the highest quality, as well as anomaly products.
- 2. TRAINING: Need to actively engage with different type of users, provide online resources (guide for different applications e.g. fisheries, HABs, aquaculture), workshops, training, also opportunities for the OC community to engage with higher level users.
- 3. IOCCG could extend its tasks to lead the above activities to create a coordinated multi-agency approach and collaboration.

1st International Operational Satellite Oceanography Symposium

OPERATIONAL: Routine and sustained provision of mature, fit for purpose quality data and products in support of both near real time and delayed mode research, applications and services...

REGISTRATION AND ABSTRACT SUBMISSION Extended to

Friday 12 April 2019
OSOS WEBSITE LINK



18 TO 20 JUNE 2019 Washington, DC Area

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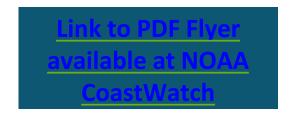






And pre-meeting data workshop training day

17 June 2019



3/21/2019 IOCS BUSAN SOUTH KOREA 9-12 APRIL 2019 7