



Splinter 5

Operational Ocean Colour Data in Support of Research, Applications and Services

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Stewart – Council for Scientific and Industrial Research

Ewa – EUMETSAT





Splinter Agenda

1. Redefining “Operational”
2. Scientific and technological innovation
3. Community organization

09:45

MORNING SPLINTERS (2 hr 30 min)

SPLINTER 5

Spectrum A

Operational ocean colour data in support of research, applications and services

09:45 Splinter session introduction (Ewa Kwiatkowska, EUMETSAT)

Redefining “Operational”

09:55 Emerging perspective (Cara Wilson, NOAA)

10:10 Marine services view (Rosalia Santoleri, EU MyOcean)

10:20 Diverse applications and their needs (Stewart Bernard, CSIR)

10:30 Discussion

Scientific and technological innovation in support of evolving applications and user needs

11:00 Emerging applications, modelling/data assimilation, coastal morphodynamics, oil spills (Rosa Barciela, Met Office)

11:10 Data access and tools (Steve Groom, PML)

11:20 Discussion

Community organization to support the implementation

11:50 International Ocean Colour Community view and OCR-VC (Mark Dowell, JRC)

12:00 Discussion

12:15

LUNCH BREAK (75 min)



1. Redefining “Operational”

Rise of operational ocean colour

Need to change perception of operational services

Operational \equiv sustained long-term, routine and uninterrupted provision of quality satellite data for a variety of diverse and evolving *Applications*

Applications

1. Science (from PFTs to Earth System Science)
2. Climate
3. Services: marine ecosystem monitoring / modelling, water quality, fisheries, aquaculture, HABs, oil spills, marine disasters, eutrophication
4. Marine and coastal management
5. Modelling, bio-geo-chemical models

How the Agencies and the community can assure success?



1. Redefining “Operational” ≡

Quality of data – operational ocean colour must meet highest quality data *Requirements* to be able to support the diverse *Applications*?

Supporting infrastructure – the operational missions must develop and maintain infrastructure and scientific and technical activities to meet the *Requirements* and downstream user needs?

Requirements

1. Accuracy, stability and multi-mission consistency
2. Product quality estimates
3. Multi-mission data access
4. Data continuity, impact of losing or adding missions
5. Means of data distribution and data access timeliness (near-real time, off-line and re-processed)
6. Specifications: geophysical parameters, data formats, product levels, resolution, diurnal frequency (geostationary missions), access to source code, tools, sensitivity to mission reprocessings, availability of data early in the mission



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2. Scientific and technological innovation in support of evolving *Applications* and user needs

Over half the human population lives and works within 200 km of a coast

Ocean is vital to human health, well-being and economy

Ocean colour applications and services have a significant potential

How to increase the use of OC to meet societal needs and challenges?

How to facilitate improved and new applications and services?

What are the barriers to proliferation of OC applications and services?

- key areas where the scientific and technological progress is required, technology accelerators? e.g. easy data access, easy data formats, data on mobile devices, apps, crowd sourcing
- need for easy access to data? upgraded IT solutions and tools



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3. Community organization to support the implementation

How to organize the community to address its broader interests/needs from a wide scientific, technical, and programmatic perspective?

How to jointly formulate common issues and goals and jointly work on the practical implementation of solutions?

International Ocean Colour Community – team of data users, producers and scientists organized in hands-on working groups

Working groups calibration, validation, algorithms and products, climate, applications and services, training and outreach

IOCS meeting – International Ocean Colour Community collocation



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International Ocean Colour Science Meeting 2013

Advancing Global
Ocean Colour
Observations

