



TUESDAY 7 MAY (9:45 - 12:15)

SPECTRUM A

SPLINTER SESSION 5

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

Co-CHAIRS Ewa Kwiatkowska (EUMETSAT) and Stewart Bernard (CSIR, South Africa)

09:45 - 09:55 **Splinter session introduction**
Ewa Kwiatkowska, EUMETSAT

Topic: Redefining "Operational" (sustained long-term, routine provision of quality satellite data for a variety of evolving applications, including science, climate, environment and services)

09:55 - 10:10 **Emerging perspective**
Cara Wilson, NOAA

10:10 - 10:20 **Marine services view**
Rosalia Santoleri, EU MyOcean

10:20 - 10:30 **Diverse applications and their needs**
Stewart Bernard, CSIR

10:30 - 11:00 **Discussion**

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

11:00 - 11:10 **Emerging applications, modelling/data assimilation**
Rosa Barciela, Met Office

11:10 - 11:20 **Data access and tools**
Steve Groom, PML

11:20 - 11:50 **Discussion**

Topic: Community organisation to support the implementation

11:50 - 12:00 **International Ocean Colour Community view and OCR-VC**
Mark Dowell, JRC

12:00 - 12:15 **Discussion**

1. Redefining “Operational”

Topics for discussion:
 Operational == sustained long-term, routine and uninterrupted provision of satellite data for a variety of evolving Applications
 Quality of data – operational ocean colour must meet highest quality data Requirements to be able to support the diverse Applications
 Supporting infrastructure – operational missions must develop and maintain infrastructure and scientific and technical activities to meet the Requirements and downstream user needs, including the activities concerned with scientific quality control, cal/val with reprocessing capabilities, and algorithm development

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. Coastal management
 5. Modeling, bio-geo-chemical models

Requirements
 1. Accuracy, stability and multi-mission consistency
 2. Product quality estimates
 3. Multi-mission data access
 4. Data continuity, impact of loosing 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

Presentations:
 Emerging perspective, Cara Wilson, NOAA (15 min)
 Marine services view, Rosalia Santoleri, EU MyOcean (10 min)
 Diverse applications and their needs, Stewart Bernard, CSIR, with input from Joji Ishizaka, Nagoya University; Zhihua Mao, Second Institute of Oceanography; Joo-Hyung RYU, KIOST; Milton Kampel, INPE; Srinivas Kumar, INCOIS (10 min)
 Discussion (30 min)

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

Topics for discussion:
 Facilitating improved and new Applications and services – key areas where the scientific and technological progress is required
 Increasing the use of OC to meet societal needs and challenges – what are the barriers to proliferation of OC-based applications and operational services? what are the required technology accelerators: easy data access, easy data formats, data on mobile devices, apps, crowd sourcing
 Easy access to data and enhanced data utilization – need for upgraded IT solutions and tools to deal with the avalanche of data
 Presentations:
 Emerging applications, modelling/data assimilation Rosa Barciela, MetOffice, with input from Blake Schaeffer, EPA (10 min)
 Data access and tools, Steve Groom, PML, with input from Kevin Ruddick, MUMM (10 min)
 Discussion (35 min)

3. Community organization to support the implementation

Topics for discussion:
 Community organization – addressing the broader community interests/needs, from a wide scientific, technical, and programmatic perspective, including operational data requirements; formulating common issues and goals; and focusing on the practical implementation of solutions
 International Ocean Colour Community Team – team of data users, producers and scientists organized in hands-on working groups around the themes such as calibration; validation; algorithms and products; climate; applications and services; training and outreach
 IOCS meeting – International Ocean Colour Community Team collocation
 Presentation:
 Community view and OCR-VC, Mark Dowell, JRC (10 min)
 Discussion (15 min)

