

Advancing Global Ocean Colour Observations

#### SPLINTER 6

Spectrum B

Co CHAIRS: Jean-Paul Huot (ESA) and Giuletta Fargion (San Diego State University)

In situ measurement protocol revision for cal/val

09:45 AOP protocols for field measurement (Giuseppe Zibordi, JRC, EU)

10:05 IOP instrumentation in the lab (Rüdiger Röttgers, Helmholtz-Zentrum Geesthacht, Germany)

10:25 IOP measurements in the field (Jean-Francois Berthon, JRC, EU)

10:45 Biogeochemstry - lab/field instruments for carbon stocks and rates (Heidi Sosik, Woods Hole Oceanographic Institution, USA)

11:05 Biogeochemstry - lab/field instruments for size of particles (Michael Twardowski, WetLabs, USA)

11:25 Discussion

### **Splinter Session 6**

Jean-Paul Huot (ESA) & Giulietta S.Fargion (SDSU) In situ measurement protocol revisions for cal/val



### **Splinter Session 6**

# Jean-Paul Huot (ESA) & Giulietta S.Fargion (San Diego State University) In situ measurement protocol revisions for cal/val

•<u>Existing Protocols/Documents:</u> NASA/TM-2003 (Fargion), (JGOFS), ACE/GEO-CAPE review of bio-geochem protocols for accuracy assessment (McClain); report from the ACE Workshop on Ocean Productivity and Carbon Cycle (http://people.eri.ucsb.edu/~davey/OPCC/). All word documents will provided to the workshop leads (starting point).

• Community <u>agreed on the strong</u> need to revise protocols for cal/val (community effort).

•New protocols format (paper documents, pdf on web server, web forum,....) to be discussed.



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# Jean-Paul Huot (ESA) & Giulietta S.Fargion (San Diego State University) In situ measurement protocol revisions for cal/val

•Participants have <u>ranked priorities</u> of protocols to be addressed. "New protocols" will have a written document and open source code. Community agreed on the following ranking and identified possible workshop leads:

- Inherent Optical Properties (IOPs): E. Boss, D. Röttgers (lab particle abs), N. Nelson (lab CDOM abs), M. Twardowski, E. Rehm (code)..
- **2.** Apparent Optical Properties (AOPs): G. Zibordi (not confirmed) , K. Voss, E. Rehm (code)...
- 3. Particle sizes : M.Twardowski .....
- **4. Carbon stocks and rates**: A. Mannino, H. Sosik, G. Mitchell (bacteria ..), B. Balch (PIC).....
- 5. Bio-fouling and deployment modes: ...?....



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•Workshops <u>under the IOCCG umbrella</u> (workshops in the USA and Europe). Upcoming opportunities: Sentinel 3 activities could include workshops; NASA GSFC planning CDOM workshop soon; particle abs . later.

•For IOCS community to move forward, some support should be secured for protocol development from various agencies (NASA, ESA, EUMESAT...).

•Document with session recommendations will be available soon.

•PS: contact Giulietta for joining the effort! email: <u>gfargion@ldeo.columbia.edu</u>