

Summary of the 02/05/2015 PACE-IOP teleconference.

Present: Lorraine R., Steve A. Lachlan M., Cecile R., Watson G., Stephane M., Jim S., Susan C., Xiaodong Z., Dariusz S., ZhongPing L., Maria Z.

Written in the order of the agenda.

1. News:

A. Our own Jeremy W. has been selected for the Project scientist for PACE with Antonio Mannino as his deputy.

B. The International Ocean Color Science meeting (<http://iocs.ioccg.org/>) will take place 6/15-18/2015 in SF. There will be at least 3 breakout session relevant to the PACE-ST (Uncertainties, Hyperspectral and high latitude). If you would like to present at any of the breakout please tell Emmanuel B. and he will pass on your name to the organizers of the session.

2. Datasets contributed to FTP:

Emmanuel B. contributed two datasets:

a. Phytoplankton IOPs from the work of Whitmire et al., 2010.

Whitmire, A.L., W.S. Pegau, L. Karp-Boss, E. Boss, and T.J. Cowles, 2010. Spectral backscattering properties of marine phytoplankton cultures. Opt. Express Vol. 18, No. 14, 15073-15093. [PDF](#)

b. Radiometry and in-water IOPs from the closure study by Mobley et al., 2002.

Mobley, C.D., Sundman, L.K., and E. Boss, 2002. Phase function effects on oceanic light fields. Applied Optics, 41, 1035-1050. [PDF](#)

c. Dariusz S. will contribute shortly his database from:

Stramski, D, Bricaud A, Morel A. 2001. [Modeling the inherent optical properties of the ocean based on the detailed composition of the planktonic community](#). Applied Optics. 40:2929-2945. [10.1364/ao.40.002929](#)

d. Steve A. is will contribute shortly the NRL database of AOP and IOPs from various experiments.

3. Report from subgroups:

Field-methodology (Steve A.): not much done since face-to-face meeting. Discussion with Jim S. regarding averaging windows for in-situ bb.

IOP-inversions (Jeremy W.): No news.

Database (Cecile R.): Working on a draft for a call to the community to contribute data. Waiting for feedback from Emmanuel B....

IOP-methodology (Dariusz S.): No news. Current focus on individual group work in preparation for subgroup work.

Applications (Maria T.): No news.

Uncertainties (Boss E.): Adding papers on uncertainties to FTP (please send me yours/those you know about). See appendix for membership and objectives.

Other:

Lachlan reported that he is in contact with Jacek C. regarding the synthetic data set. ZhongPing mentioned they are planning to have a telecon about it soon.

7. Next teleconference (1st Thu. of the month @12:15pm): March 5th at 12:15pm EST.

1. Name: PACE Uncertainties subgroup

2. Members:

- Emmanuel Boss
- Stéphane Maritorena
- Jeremy Werdell
- ZhongPing Lee
- Lachlan McKinna
- Steve Ackleson

3. Objective for 2015:

1. Review existing methodologies to assign uncertainties to:

- a. in-situ measurements.
- b. forward model output.
- c. inverse model output.

2. Provide examples (from peer-reviewed literature) on how such procedure are applied to problem of direct relevance to PACE.

3. Provide advise to PACE-ST members on how to compute uncertainties for the specific problem they are working on.

4. Identify gaps in knowledge of how to compute uncertainties to any component of the PACE-ST work.