IOP Algorithm Workshop, Ocean Optics XIX, 3-4 Oct 2008, Barga, Italy

DRAFT AGENDA

SCHEDULE

Day One (Fri, Oct 3)

9:00 start
17:30 adjourn (maybe)
20:00 group dinner

Day Two (Sat, Oct 4)

9:00 start
17:30 adjourn

with AM / PM / lunch breaks
complementary group dinner hosted by NASA on Fri

MOTIVATION

Our long-term "mission": achieve community consensus on the most effective algorithmic approach for producing GLOBAL-scale, remotely sensed SAA IOP products.

Desired features of the approach: (a) a combination of accuracy and geographic coverage; (b) flexible (multi-sensor) implementation; (c) computational efficiency to support an operational environment; (d) open source software development; and, (e) accompanying uncertainties.

FOCUS TOPICS

Each topic will begin with a 10-15 minute introduction presented by a session moderator, followed by open discussion and presentation of results by all workshop participants. Participants are encouraged to prepare materials for any/all sessions. To start, session schedules will not be assigned and the full group will participate in each discussion. Each session with conclude with 10-15 minutes of recap and formulation of recommendations. Potential topics for discussion and specific goals for each session are provided below.

I. Overview (mod: Jeremy)

topics: goals; summary of approaches; evaluation process; limitations

goals: clear understanding of workshop goals; agreement on accuracy of SAA summaries and recognition of overlap amongst approaches; agreement on evaluation metrics

II. End-user perspectives (mod: Mike)

topics: desired products and their uses; accuracy/behavior/uncertainty requirements

goals: outline of near- and long-term needs with attention to currently available products; list(s) of data product hierarchy / priority

III. Operational implementation strategies (mod: Bryan)

topics: retrieving level-2 Rrs (l2gen, "exact" normalization (f/Q), spectral bandpass correction); retrieving level-3 IOPs (masks, geometry, calculation at level-2 vs. -3); other strategies (GlobColour / MERIS)

goals: consensus understanding of level-2 Rrs generation; agreement on SAA flags and their use in level-3 product generation; discussion of (dis)advantages of and rationale for product generation at level-2 vs. -3

IV. Relationships between Rrs and IOPs (mod: Emmanuel)

topics: assumed IOP shape functions; inversion procedures; uncertainties; ambiguity

goals: discussion of sensitivities of spectral shape functions and inversion procedures and how they impact product accuracies and geographic coverage; discussion of methods for uncertainty determination

V. Regional adjustment of SAA parameterization (mod: Mark/Tim)

topics: Dowell/Moore optical water type classification approach; others?

goals: consensus (dis)agreement of need to pursue such approaches

VI. New directions (mod: volunteer?, Jeremy?)

topics: fluorescence, "exact" normalization (f/Q), GlobColour; others?

VII. Summary, recommendations, and steps forward