

## Updates of the Ocean Cal val meeting . July 23 – 24 ..

### Teams ..

#### Phase One (work underway now)

##### **1). VIIRS Proxy data.**

- This effort is to put the software together to get a proxy data stream together..
- The second effort will be to use these data.
- HDF-5, data granule, geometry, etc correct
- Matched to spectral bandpass, etc.
- Test and validate ocean EDR algorithms using this data
- Using SeaPRISM and other matchups

Team members: Joe Zajic, Gravite integration

- Color - Bob Arnone, Lead,
  - Software implementation into L2gen and APS -- Ping Lee, Ronny Vaughn,
  - Users of Proxy Data - Curt Davis, Rick Stumpf, Menghua Wang, Bo-Cai Gao, Chuck Trees
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##### **2) Aeronet SeaPRISM data. Set up, data management and maintenance**

- Establish US sites, and International Coordination
- Protocols, data QA/QC

Team members: Curt Davis, Lead, Brent Holben, Alan Weidemann, Giuseppe, Zibordi, Alex Gilerson, Burt Jones, Bob Arnone, Giulietta Fargion, Bill Gibson,

##### **3) SST cal/val**

Proxy data production and software

Proxy data testing and evaluation

Data format for SST's – buoys and M-AERI

In situ data collection and management

SST product validation using in situ data

SST product validation using cross comparisons (sat & model)

SST algorithm improvement investigations

Cloud detection improvement investigations

Team members, Doug May, lead, Sasha Ignatov, Bob Evans, Peter Minnett, Bill Emery

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#### Phase 2 (begin preparations now, actual data collection and analysis next spring)

##### **4) In situ data management**

- Color - Need one data management center and standard formats and protocols. Data base in situ data policy. Delivery time of in situ data. Involvement of NASA SeaBASS.
- What are we sampling (parameter: surface/vertical) and how (instruments/protocols/calibration scheme/processing software version)?
- What is planned for the cruises of opportunity FY09-10-11 by PI ( dates/location/# stations).

Team members: Giuletta Fargion, Lead,

- Color - Curt Davis, Rick Stumpf, Mike Ondrusek, Chuck Trees, Bob Arnone, Kevin Turpie

#### **5) Automated matchup / uncertainty of in-situ data with satellite data**

- Aeronet match up software --
- MOBY matchup procedures
- Validation data matchup procedures
- Develop Common tools

Team members: Bob Arnone, Lead, Kevin Turpie, Curt Davis, Rick Stumpf, Mike Ondrusek, Giuletta Fargion, Menghua Wang, Adam Lawson,

#### **6) Vicarious calibration methods**

- Using MOBY,
- Using central gyres
- Using HyperPRO data for wider distribution of matchup data
- Using many matchups from coastal and open ocean sites (similar to SST approach)
- Data types (Rrs, AOPs, IOPs, Chlorophyll, etc.)

Team members: Menghua Wang, lead, Curt Davis, Rick Stumpf, Mike Ondrusek, Giuletta Fargion

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Phase 3 (prepare now but execute July 2010 to launch)

#### **7) Demonstrate real time continuity of ocean color data products in preparation for VIIRS products (27)**

- Existing methods for MODIS matchups could be used
- MODIS and MERIS continuity
- Team members: Curt Davis, Lead, Rick Stumpf, Mike Ondrusek, Giuletta Fargion, Menghua Wang, Bob Arnone

#### **8) Establishment of protocols for ocean color product continuity (25)**

- Review the approach used by GLOBCOLOUR and other programs to merge MERIS, MODIS and SeaWiFS data.
- Combining data from multiple satellites
- Cross satellite comparisons for coastal water types

- Atmospheric correction issues
- Team members: Rick Stumpf, Lead, Curt Davis, Chuck Trees, Mike Ondrusek, Giulietta Fargion

[SUGGEST COMBINING 7 AND 8 WITH RICK STUMPF AS THE LEAD]

#### **9) Coastal Ocean Algorithms.**

- Validate with US coastal sites
- Take advantage of the international sites
- Test and validate algorithms
- Using SeaPRISM and other matchups

Team members:

Color Ping Lee, lead, Curt Davis, Bob Arnone, Rick Stumpf, Menghua Wang, Bo-Cai Gao