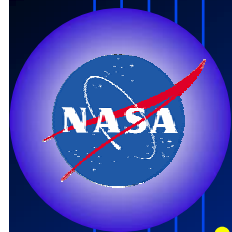


IOCCG Working Group: Coordination of Merged Data Sets

Paula Bontempi
NASA Headquarters
January 2005

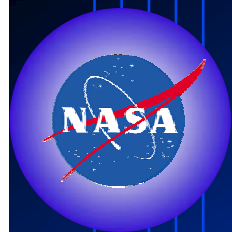


Workshop

- Present status

- Watson Gregg NASA Goddard Space Flight Center
- Paula Bontempi NASA Headquarters

- | | | | |
|----|---------------------|------------------|---------------------|
| 1) | Jim Aiken | Plymth Mar. Lab | Yes – prefer Apr |
| 2) | Prakash Chauhan | India | No reply |
| 3) | Ewa Kwiatkowska | NASA GSFC | Yes |
| 4) | Mervyn Lynch | Curtin U. Austr. | Yes – May unsure |
| 5) | Stephane Maritorena | Univ. of Cal-SB | Yes – prefer SB |
| 6) | Hiroshi Murakami | NASDA | Yes |
| 7) | Claire Potter | CNES | Yes |
| 8) | Frederic Melin | JRC-Italy | Yes |
| 9) | Simon Pinnock | ESA | Maybe – check w/ESA |



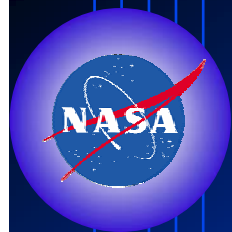
Workshop Objectives

- Objectives:

To define

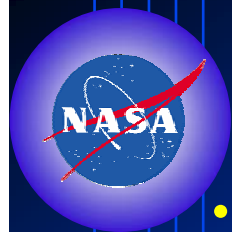
- 1) data and knowledge requirements
- 2) assessment methodology
- 3) possible approaches, with strengths and weaknesses

for merging coincident ocean color data from multiple sensors.



Report Outline

- 1) Benefits of merging
better coverage, improved accuracy, resolve high frequency events, diurnal cycle
- 2) What missions are available and overlapping
- 3) Knowledge requirements for merging, e.g., BRDF, cal, sensor-related issues
- 4) Output requirements -- how do we measure success? Seamless, no obvious discontinuities, accuracy, speed
- 5) Products to be merged -- just chl? Or also LwN? PAR? Others?
- 6) Survey of possible methodologies, review methodologies in use
- 7) What is needed to achieve success that is not being done?
- 8) Conclusions/Recommendations



One Example

- **REASoN CAN Team:**

- Jim Acker, NASA/GES-DAAC
- Gene Feldman, NASA/Ocean Color Processing
- Wayne Esaias, NASA/Oceans and Ice Branch
- Watson Gregg, NASA/Global Modeling and Assimilation
- Steve Kempler, NASA/GES-DAAC
- Greg Leptoukh, NASA/GES-DAAC
- Chuck McClain, NASA/Ocean Color Processing

- **Data Merging:**

- Jim Frew, Stephane Maritorena, David Siegel, UCSB

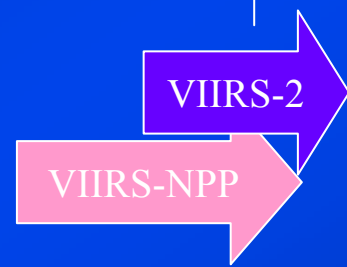
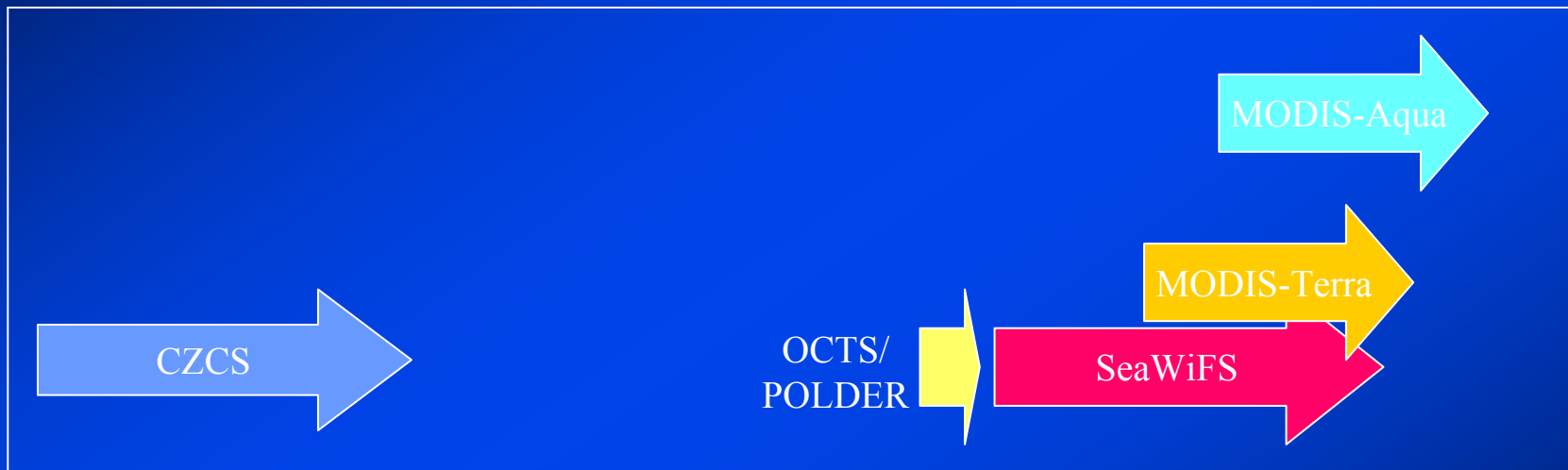
Goal:

Provide consistent time series of Level-3 ocean color data from 1979, with a 9-year gap (1987-1996)

Emphasize consistent algorithms and calibration methodologies

Produce Earth Science Data Records (ESDR) of ocean color

Ocean Color Satellite Missions: 1978-2010 and Beyond



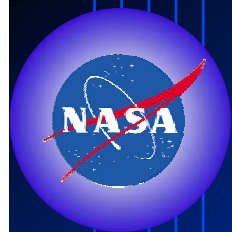
“Missions to Measurements”

1980

1990

2000

2010



Questions

- Location
- Further Invitees
- Support