IOCCG Working Group: Coordination of Merged Data Sets

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NASA Headquarters
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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

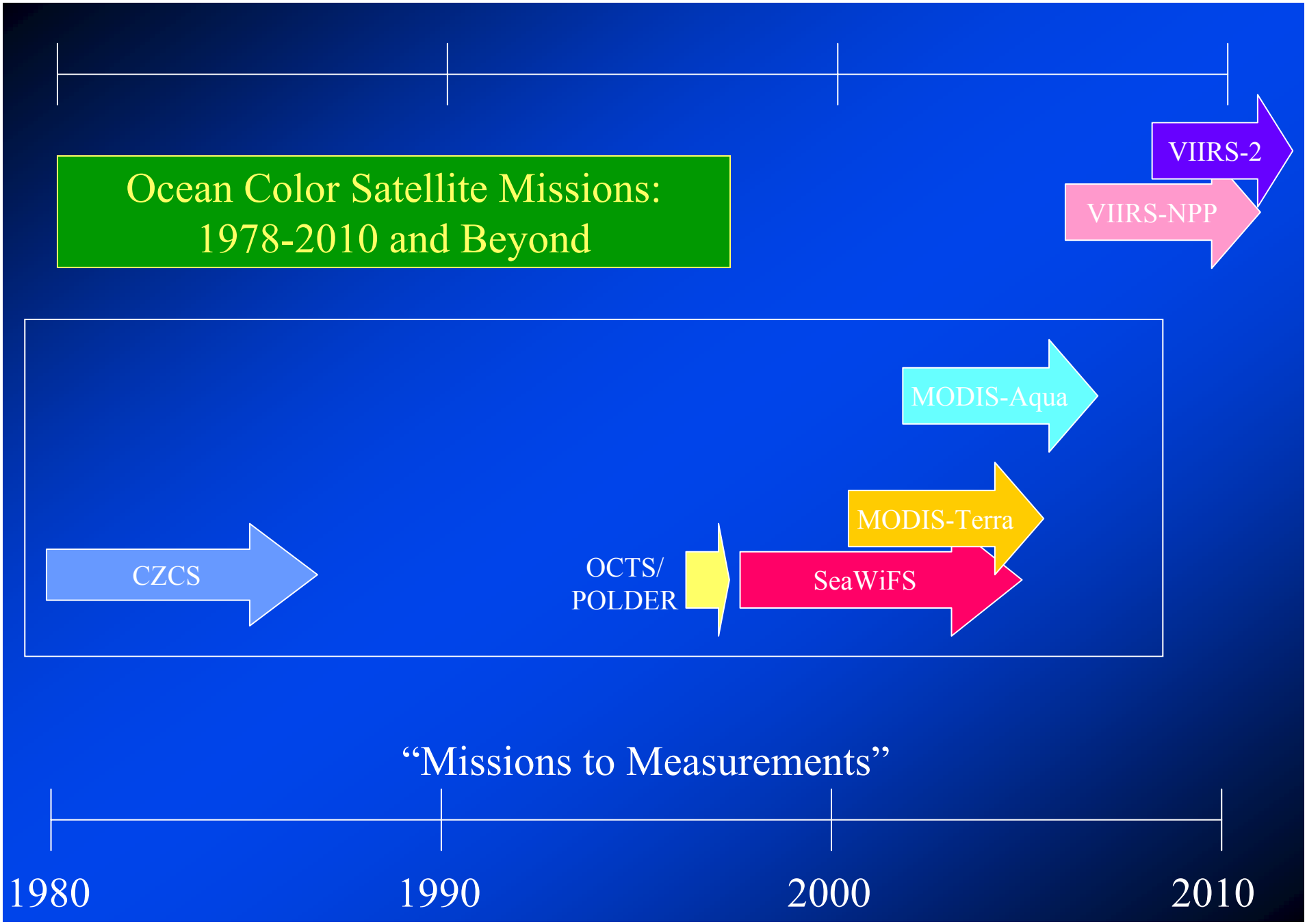
- Data Merging:
- Jim Frew, Stephane Maritorena, David Siegel, UCSB

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
VIIRS-2
VIIRS-NPP
MODIS-Aqua
MODIS-Terra
CZCS
OCTS/
POLDER
SeaWiFS
"Missions to Measurements"
1980
1990
2000
2010

Questions

- Location
- Further Invitees
- Support