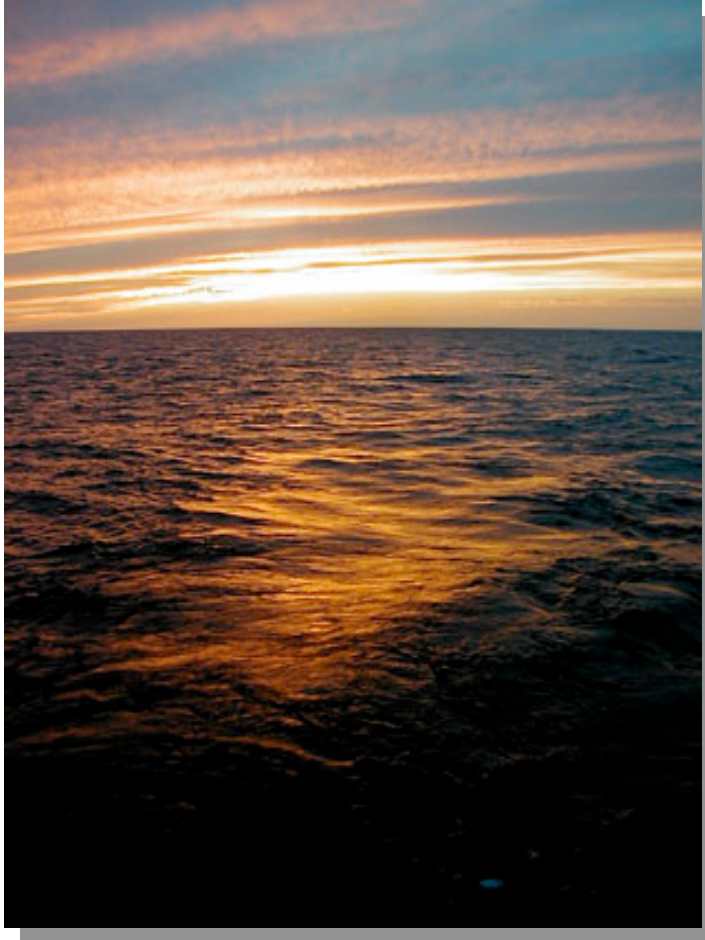


# IOOS Education Planning Workshop



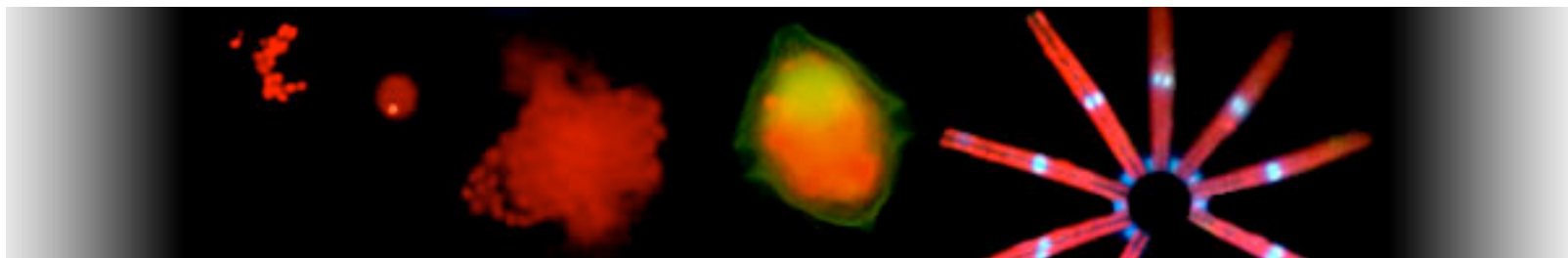
- March 22-24, 2004
- At NOAA Coastal Systems Center in Charleston, S.C.
- ~65 participants from all regions and disciplines
- NANOOS “representatives”  
Susan Cowles, Jon Luke,  
Jan Newton, and Fritz Stahr

All graphics gratefully borrowed from Annette deCharon, Director of Outreach, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine - presenter at Education workshop

# IOOS Education Planning Workshop

## OBJECTIVES:

- Produce a set of community recommendations for education efforts associated with IOOS.
- Develop strategies and recommendations for integrating both formal and informal education into IOOS operations at both regional and national scales (i.e., COOS *and* IOOS).



# IOOS Education Planning Workshop

ACTIVITIES: A mix of -

- Presentations regarding IOOS plans and other program's current activities (e.g., COSEEs, NMEA, GoMOOS, Bigelow, DLESE)
- Evaluation of currently available web-based tools & programs
- Breakout sessions to identify needs, develop strategies and make recommendations - matrix of needs and strategic areas
- Good food!

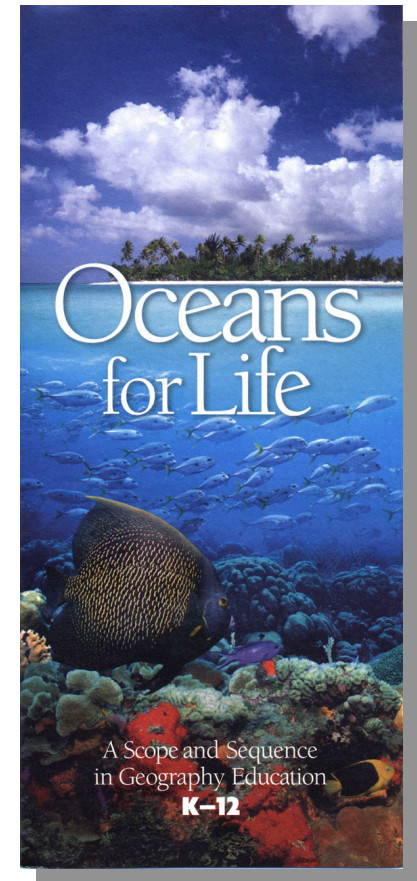
**Blending Ocean Research & Education**

*A View from the Bottom of the Food Web*

# IOOS Education Planning Workshop

## (Proposed) DELIVERABLES:

- Report that will evolve into IOOS Education Strategic Agenda and Implementation Plan
- Recommendations for data manipulation, analysis and visualization tools for education - ID exemplary efforts.
- Create and sign community resolution to facilitate communication, stimulate development and use of IOOS for formal and informal education.



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DELIVERED (to date):

- Signed resolution.
- Report draft that includes recommendations on:



- a) Building awareness of OOS among the education community
- b) Application of IOOS assets to education
- c) Workforce development and diversity
- d) Contribution to science education improvements
- e) Participation of IOOS/COOS members in education

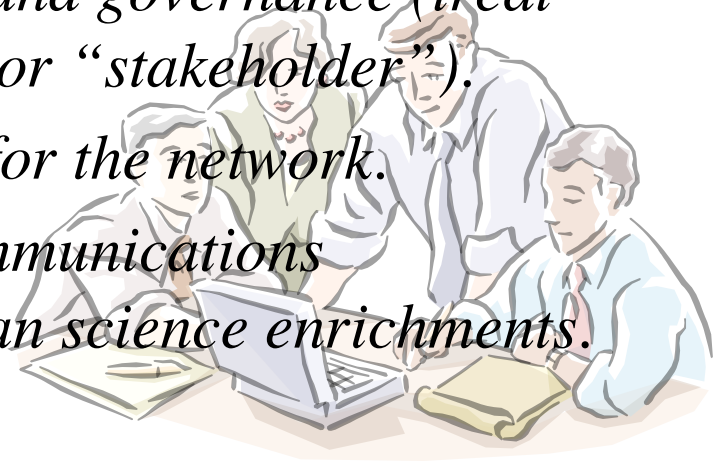
# IOOS Education Planning Workshop

REPORT contains specific recommendations related to the goal of:

1. Create a vibrant and highly effective education and communications network that fully integrates into ALL components of IOOS.

Including:

- a) *Create a collaborative educ/comm IOOS network with offices or personnel in each of the regional associations.*
- b) *Participate in IOOS planning, design and governance (treat education at least as well as a “user” or “stakeholder”).*
- c) *Create a national coordinating office for the network.*
- d) *Support development of education/communications professionals using IOOS derived ocean science enrichments.*





# IOOS Education Planning Workshop

REPORT contains specific recommendations related to the goal of:

2. Using IOOS, contribute to the development of an ocean-literate society that practices good ocean stewardship.

Including:

- a) Articulate a set of key messages and themes based on the 7 pillars that address the value of IOOS to society, including the scientific, applied and education value.*
- b) Craft an education development strategy and implementation plan including (among other things) sustained training of educators in use of OOS products.*



# IOOS Education Planning Workshop

REPORT contains specific recommendations related to the goal of:

3. Create useful education products using IOOS assets.

Including:

- a) *Create data and technology protocols for education working group.*
- b) *Establish a MOU with all IOOS partners for open access to data, tools, and products.*
- c) *Establish a clearinghouse to provide mechanism for sharing data, tools and products.*





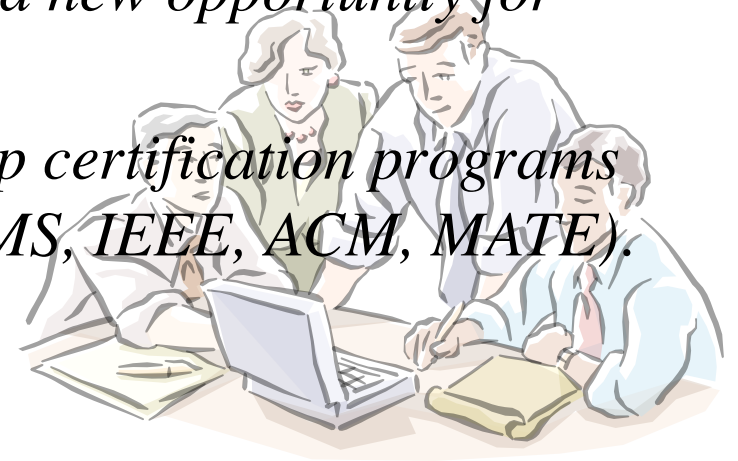
# IOOS Education Planning Workshop

REPORT contains specific recommendations related to the goal of:

4. Create a technically trained workforce that reflects diversity and possesses the unique skill sets required to develop and sustain IOOS assets.

Including:

- a) Conduct a thorough workforce analysis to identify the operational and developmental needs of IOOS.*
- b) Educate industry to recognize IOOS as a new opportunity for business.*
- c) Engage professional societies to develop certification programs to meet IOOS needs (e.g. TOS, MTS, AMS, IEEE, ACM, MATE).*



# IOOS Education Planning Workshop

Take home messages:

- Education & communication are critical to success of IOOS (*and, by extension, regional COOS*)
- Development of IOOS must include educ/comm at high level and at start up.

