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
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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).
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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!
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(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
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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.
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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.
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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.
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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).**
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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.