

Integrated Ocean Observing System (IOOS)



Objectives:

- Applications orientation
- Specific societal goals

Organization and framework:

- Linked with larger national and international efforts
- Evolving, inter-agency program spearheaded by NOAA
- 11 regions nationally, including NE & Middle Atlantic
- Each region has a Regional Association (RA) and a Regional Coastal Ocean Observing System (RCOOS)
- Individual RAs identify needs & develop solutions
- Ultimately a permanent, distributed, national network

Funding:

- Historical piecemeal earmarks at ~\$30 M/yr nationally
- Ultimate funding envisioned at ~\$200M/yr nationally
- 2007 replacement of earmarks by competitive process

Northeast RCOOS and RA Activities

- **Success in April 2007 RCOOS competition:**
 1. Trowbridge et al. Infrastructure operation & enhancement
 2. Gallager et al. Northeast benthic observatory (NEBO)
 3. Kite-Powell et al. Maximizing NERA's economic return
 4. Fredericks et al. QA/QC standards for *in situ* sensors
 5. Cornillon et al. OPeNDAP
- **Pending proposal in 2007 RA competition**
- **Upcoming November 2007 RCOOS competition**

Funded and Pending Opportunities for Industry in Northeast RA & RCOOS

- **Funded April 2007 RCOOS proposal:**
 - Systems engineering and system design (Lockheed)
 - Nutrient sensors (TBD by competitive process)
- **Pending RA proposal:**

Preparation of regional plans for

 - products & product development
 - science & technology
 - data management and communication

(Participants TBD by competitive process)
- **Activities in November 2007 RCOOS proposal:**
 - HF radar
 - Satellite remote sensing

(Participants TBD by competitive process)

Potential Future Opportunities for Industry in Northeast RA & RCOOS

- **Provide goods or services as part of IOOS:**
 - operation and maintenance of platforms & sensors
 - model nowcasts and forecasts
 - data management & communications
- **Develop new technologies for use in IOOS**
- **Use IOOS data to develop and market derived data products**

Northeast RA Decision Making

- **Response to evolving user needs thru RA governance structure**
- **Northeast RA governance structure in progress**
- **RA governance structure proposed by WHOI has 4-way partnership:**
 - New England Governors Conference (thru Northeast Regional Ocean Council)
 - Northeast Academic Consortium
 - Northeast Sea Grant Programs
 - Marine & Oceanographic Technology Network
- **Industry participation thru**
 - involvement in governance structure
 - competitive processes for providing goods and services