AGENDA

Observational Working Group

MONDAY

OPENING PLENARY

OWG status report – Weisberg (Each group should provide a brief description of progress and a graphic for use in a pp-presentation)

SESSION 1 – Observational Working Group Session

1045-1230

1. Year 1 accomplishments and Year 2 plans

Objectives: Bring all of the OWG partners up to date on present status and (funded) plans.

Format: 15 minute presentations. Each of the partners will summarize the present status of their Year 1 accomplishments and challenges, including updates on available real time data and products being served. Each of these partners will also provide a description of their Year 2 plans. Year 2 also includes new partners who will summary their Year 2 plans and challenges. Upon completion of individual reports we will discuss some candidate Year 2 joint research topics such as the east coast cold event.

- USF - Weisberg
- UM Radar - Shay
- UM Explorer of the Seas - (Kearns)
- SkIO - Nelson
- SC DNR - Barans
- UNC - Seim
- UM profiling system - Johns

SESSION 2 – Observational Working Group Session (continued)

1415-1700 with a 15min. break at 3PM.

1. Year 1 accomplishments and Year 2 plans (continued)

- USC nearshore system - Voulgaris
- GIT nearshore system - Work
- Satellite remote sensing – Hu and Kearns

2. Identify SEACOOS website representative

3. COOS design for SEA-COOS: What are we attempting to achieve and why?

Objectives: Provide a basis for SEA-COOS additions and help to define the role of the academic community in COOS. This will lay a framework for OWG input to the Year 3 proposal and for the addition of new partners and affiliates. Also, improve upon the Operational Working Group structure to enable us to more effectively address the observing system requirements as a regional program and to improve mechanisms of information exchange. To improve communications we will make an effort to set up focus and forum groups via Celoxis so please note the Celoxis training sessions to be conducted each morning by Claire Eager.

Format: Group discussion with a Chairperson and a Rappateur to identify missing elements in a scientifically defensible way that will justify the systematic construct of a strategic observational plan. The discussion goal is to arrive at such a strategic observational plan with realistic Year 3 proposal writing targets. Some suggested points for guidance include the following:

3A. What are we trying to achieve observationally?

- Improved wind fields
- Improved heat flux fields
- Specifications of deep ocean influences on the coastal zone
- Specifications of land drainage and estuarine influences on the coastal zone
- Specifications of V/T/S fields
- Waves
- Other state variables
- Product development

3B. Why are these COOS goals important – Societal and Science relevance?

- Improved marine weather forecasting
- Search and rescue
- Hazardous materials
- Maritime industry

- Recreational and commercial fisheries
- Shelf ecology

3C. Where and how should resources be placed to achieve these goals?

- Locations: rationale for near-shore, mid-shelf, offshore
- Measurement systems
    - What is the mix of measurements that we want to achieve?
    - How should the basic elements be positioned based on scientific and pragmatic rationale
    - Define basic element costs, including personnel, ship support, etc.
    - How to optimize element coverage with realistic budgets?
    - Given a categorized set of platform/data type costs how can we leverage through outreach interactions?
    - How should HF-radars be deployed – offer a SEA-COOS strategy to help guide the national effort, to include the various perceived uses of radar beyond just that of surface current maps.
    - Waves
    - Role of satellite remote sensing.
    - U/W imaging.
    - Cabled systems.
    - New and other sensor systems: gliders, AUVs, BSOP, aircraft
    - Role of ship surveys: repeated tracks/variables; use of surveys by other programs.
    - New sensors: nutrients, oxygen, sediments, sonic anemometers and other advanced meteorological packages.
- Additional test-beds and sub-regional experiments
    - In relation to the EFSIS radar test-bed should we be considering other instrument system oriented test-beds or sub-regional experiments?

3D. Provide a realistic strawman including rationale for Year 3 additions.

SESSION 2 – OWG Technical Subcommittee concurrent session

1415-1700 with a 15min. break at 3PM.

4. What are the observational impediments and solutions?

Objectives: Define the problems that must be overcome to implement and sustain a COOS and develop a plan to solve these problems. Define issues common to the observing elements in SEA-COOS at the system design level and at the operational level.

Format: Group discussion with a chairperson and rappateur.

4A. Technical details

- Deployment systems
- Telemetry/logging
- Power systems
- Sensors and calibration
- Fouling, corrosion, lightning, vandalism, and other problems
- Personnel and training

4B. Shared expertise

- Compile a list of technical support persons and expertise
- Determine who is working on new applications
- Compile a list of contacts with other SEA-COOS affiliates and other RA technical groups

4C. Building and sharing common elements

- How can we assist each other?

4D. Taking leadership roles in COOS system designs/construction/licensing

4E. How do we overcome impediments?

- Measurement systems - should we work toward a standardized set of sensors?
- Sharing expertise with platforms and telemetry systems.
- QA/QC considerations.
- Fouling, corrosion, lightning, vandalism, and other problems
- Personnel and training

TUESDAY

SESSION 4 – OWG subcommittees and other WG coordination

200-500PM with a 15min break.

5. Subcommittee breakouts for: satellites, hf-radar, outreach, modeling, and data management.

Objectives: This session will provide time for focus groups to discuss their individual goals/problems/solutions in more detail. It will also provide a forum for cross-cutting theme discussions between members of various working groups.

Format: We will self organize into subgroups with chairpersons designated (by the subgroup) to ensure reporting at the Session 5 OWG plenary.

5A. Satellite remote sensing subcommittee

- Products.
- Formats.
- Regions and overlays.

5B. HF-Radar subcommittee

- Define the requirements for hf-radar siting based on present year experience.
- Define implementation and operational costs.
- Develop a set of operational products.

5C. Coordination with Modeling Working Group

- Develop a joint Year 2 project – the 2003 east coast cold event for instance.
- Define joint OWG/MWG data product priorities, delivery time frames, and formats?
- Define initial data assimilation goals.

5D. Coordination with Data Management Working Group

- Define procedures for updating web-based information as changes occur
- Discuss product improvements
- Metadata issues (e.g., maintenance/calibration databases for field systems)
- QA/QC – consistency within SEA-COOS and with NDBC, NOS, NWS.

5E. Coordination with Outreach/Education Working Group

- Seek input on improved graphics and displays – what do the clients want to see?
- Increase client base and use through organized tutorials on OWG resources.
- Foster enthusiasm for the various systems being emplaced, develop a broader appreciation for COOS challenges, and garner local assistance for siting and maintenance.
- Explore means for generating new resources from local user groups.
- Build effective researcher/educator links through the COSEE programs (participation in Teacher Workshops, development of teaching resources based on SEA-COOS data and products and on the technical/engineering aspects of the COOS system).

5F. Affiliates Subcommittee.

- How do we more effectively coordinate with Federal Partners (NOS, NDBC, NWS, ACE)?
- How do we more effectively coordinate with other regional monitoring efforts (Caro-COOPS, CORMP, LTERs, NERRs, PORTS, state and local).
- Similar for adjacent RAs.

WEDNESDAY

SESSION 5 – OWG Plenary and subcommittee reports

8:30-10:00AM.

Objectives: Synthesize OWG breakout session reports for presentation at plenary.

Format: Presentations by subgroups/committees followed by group discussion with a chairperson and rappateur.

- Status report (years 1 and 2)
- OWG strategic plan, plus Year 3 proposal items by group.
- Collaborative science project
- Products
- Cross-cutting themes

SESSION 6 – PLENARY

10:00-12:00PM.

Report on workshop accomplishments and 6 month goals