

## OBSERVATIONS WORKGROUP STATUS AND PLANS SUPPORTING DOCUMENTS SUMMARY

Much of the supporting material for the Observations Working Group is included in a power point presentation to be given as part of the review. This material is summarized below.

### Present Activities:

- *In-situ* measurements using moored buoys, fixed towers, coastal stations, ships, and gliders (new in 2005).
- Remote sensing using HF-radar.
- Remote sensing using satellites.
- Technology developments: untethered profiling floats, fixed position profilers, fish cameras, telemetry developments, testing of acoustic modems, waves systems.

The locations for SEACOOS the in-situ array, the existing NOAA in-situ sites, and approximate surface current coverage (HF Radar) are shown on the figures below.



The SEACOOS in-situ array



## NOAA in-situ Observations in the SE

### Other opportunistic activities:

- Surface drifters.
- Ship surveys supported through other programs.

### Subcommittees:

- Satellite Remote Sensing.
- Operations and Technical.
- HF Radar

### Priority Products:

Fields of variables for *description* and in *support of models* through forcing functions, quantitative comparisons, and data assimilation.

### Recent Products:

- Winds
- in-situ SST
- Satellite OLSST (OI = optimally interpolated)
- Satellite OI-Color
- overlays



**SEACOOS HF-Radar Coverage**  
(includes present coverage and planned deployments for 2005)

**Other Product Developments:**

- OI-wind fields (merging NOAA EDAS with in-situ)
- SEACOOS domain river inflow data set
- climatologies (Atmosphere and Ocean)

**Year 4 Priorities:**

- *Improve reliability* of existing observations and their delivery to users.
- *Determine user needs* by two way outreach: engage users on goals and iterate on how to achieve these, i.e., *employ science to achieve COOS societal goals.*
- *Grow* the waves, HF-radar, profiler/glider, and drifter components as feasible, given budget constraints. *But, growth is secondary to solidifying what we have.*
- *Advance products* for both description and model support.
  - Winds
  - Heat flux
  - Currents (Eulerian and Lagrangian)
  - T/S
  - SST, Color
  - Waves
- *Targeted applications*
  - Across-shelf exchange, re: fisheries & ecologically based management
  - SAR, hazmat
  - Public awareness
  - Test beds (such as in-situ waves for WERA comparisons)