

MARACOOS = MACOORA + MARCOOS + Enhancements

1. Regional Management

Regional Association

- 1) Defines regional themes
- 2) Designs, constructs & operates a Regional Coastal Ocean Observing System
- 3) Engages stakeholders

User Needs

Scientific Understanding

Technological Capabilities

MACOORA
2004 - Present

2. Observing Subsystem

Met Stations

Satellites

HF-RADAR

Drifters

Gliders

MARCOOS
2007-Present

3. Data Management

Data Management

Thredds QA/QC Asset Map

4. Modeling & Analysis

Nested Weather Forecasts

- NOAA-WRF
- Weatherflow RAMS
- RU-WRF
- SUNY

Weather Forecast Ensemble

Nested Ocean Forecast Models

- UConn STPS
- RU ROMS
- Stevens NYHOPS
- UMass HOPS

Ocean Forecast Ensemble

Validation

Adaptive Sampling

Leveraged
Regional
Weather
Forecasts

Enhancements
2011

5. Education & Outreach

Visualization

WWW Google Maps Google Earth MAYA 3-D

User Defined Regional Themes

Maritime Safety Ecosystem Mgmt Water Quality Inundation Energy

