

## **Handout A**

Ocean Observing Sub-Panel, ORRAP

NOAA: February 18, 2009

### **NOAA – Water Quality-Related Legislative Mandates: Examples**

1. Clean Water Act, Section 319: Nonpoint Source Management Program
2. Coral Reef Conservation Act of 2000 (16 USC 6401)
3. Estuaries and Clean Waters Act of 2000 (PL 106-457; 33 USC 2901)
4. Harmful Algal Bloom and Hypoxic Research and Control Act of 1998 (16 USC 1451 note; PL 105-383)
5. Marine Protection, Research, and Sanctuaries Act, Title II: Comprehensive Research on Ocean Dumping (Section 202 – comprehensive program of research and monitoring)
6. National Coastal Monitoring Act: Title V of the Marine Protection, Research, and Sanctuaries Act (33 USC 2801)
7. National Contaminated Sediment Assessment and Management Act (33 USC 1271)
8. National Marine Sanctuaries Act: Title III of the Marine Protection, Research, and Sanctuaries Act (16 USC 1431; PL 106-513)
9. NOAA Ocean and Coastal Programs: Title II of the NOAA Authorization Act of 1992
10. Organotin Anti-Fouling Paint Control Act of 1998 (33 USC 2401)
11. The Coastal Zone Management Act – Section 315: National Estuarine Research Reserve System

MISSION: TO ASSESS AND FORECAST COASTAL AND MARINE ECOSYSTEM CONDITIONS THROUGH RESEARCH AND MONITORING.

## WATER



CCMA is home to one of NOAA's premier coastal and ocean Remote Sensing Programs whose efforts focus on monitoring and forecasting estuarine and coastal environmental stressors. The Center has developed the Nation's first operational **Harmful Algal Bloom** detection and forecasting system in partnership with NOAA's Center for Operational Products and Service. CCMA is also responsible for updating the "National Estuarine **Eutrophication** Assessment" to highlight changes in nutrient related water quality, sources of nutrients and expected future conditions.

 <http://ccma.nos.noaa.gov/stressors/pollution/EutroUpdate.html>

## HABITAT



CCMA is a recognized leader in **Mapping Shallow & Mid-water Benthic Habitats**. Well versed in a wide range of technologies – from shipboard multibeam sonar to multi-spectral & satellite imagery – CCMA develops map products to delineate and classify the extent, nature, and condition of critical coastal and marine habitats. CCMA is also home to NOAA's **National Status and Trends Program (NS&T)**, the nation's longest running coastal and Great Lakes contaminant monitoring effort, measuring chemical, toxicological, and associated biological effects of contaminated waters throughout the U.S. coastal zone.

 <http://ccma.nos.noaa.gov/publications/MWTwoDecades.pdf>

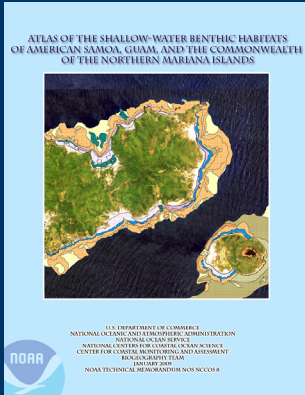
## LIVING RESOURCES



CCMA has delivered a number of "**Biogeographic Assessment**" products that have characterized the distribution of living resources throughout sanctuary waters, thereby providing a scientifically-based and objective framework for coastal decision making. Products have informed internal **Sanctuary Zoning**, as well as boundary delineation processes. The Center has also produced and implemented a range of **Monitoring Protocols** designed to quantify resource status, to establish baseline conditions, and detect change resulting from management action.

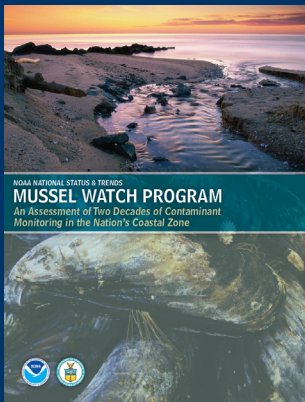
 <http://ccma.nos.noaa.gov/products/biogeography/cinms/>

## LEARN MORE ABOUT OUR CENTER'S CAPABILITIES



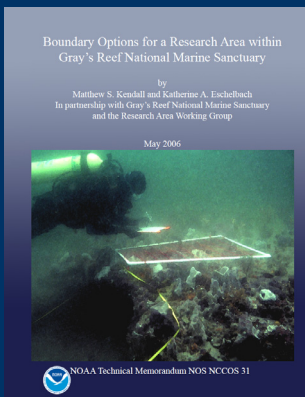
### MAPPING

[http://ccma.nos.noaa.gov/ecosystems/coralreef/fl\\_mapping.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/fl_mapping.html)  
[http://ccma.nos.noaa.gov/ecosystems/coralreef/main8hi\\_mapping.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/main8hi_mapping.html)  
[http://ccma.nos.noaa.gov/ecosystems/coralreef/nwhi\\_mapping.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/nwhi_mapping.html)  
[http://ccma.nos.noaa.gov/products/biogeography/usvi\\_nps/overview.html](http://ccma.nos.noaa.gov/products/biogeography/usvi_nps/overview.html)  
[http://ccma.nos.noaa.gov/ecosystems/coralreef/us\\_pac\\_mapping.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/us_pac_mapping.html)



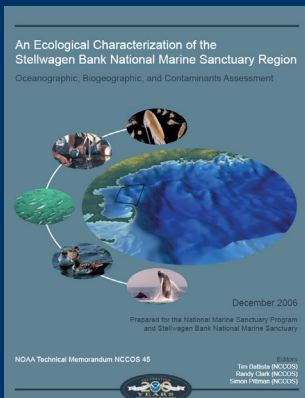
### MONITORING

<http://ccma.nos.noaa.gov/about/coast/nsandt/welcome.html>  
[http://ccma.nos.noaa.gov/ecosystems/sanctuaries/grays\\_nms.html](http://ccma.nos.noaa.gov/ecosystems/sanctuaries/grays_nms.html)  
<http://tidesandcurrents.noaa.gov/hab/>  
[http://ccma.nos.noaa.gov/ecosystems/coralreef/coral\\_grant.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/coral_grant.html)  
[http://ccma.nos.noaa.gov/ecosystems/coralreef/reef\\_fish.html](http://ccma.nos.noaa.gov/ecosystems/coralreef/reef_fish.html)



### RESEARCH

<http://ccma.nos.noaa.gov/stressors/extremeevents/hab/HABResearch.html>  
[http://ccma.nos.noaa.gov/ecosystems/sanctuaries/grays\\_boundary.html](http://ccma.nos.noaa.gov/ecosystems/sanctuaries/grays_boundary.html)  
[http://ccma.nos.noaa.gov/ecosystems/sanctuaries/fgb\\_nms.html](http://ccma.nos.noaa.gov/ecosystems/sanctuaries/fgb_nms.html)  
<http://ccma.nos.noaa.gov/ecosystems/coralreef/CEAP.html>  
[http://ccma.nos.noaa.gov/stressors/pollution/nsandt/kbay\\_bioeffects/](http://ccma.nos.noaa.gov/stressors/pollution/nsandt/kbay_bioeffects/)



### ASSESSMENT

[http://ccma.nos.noaa.gov/ecosystems/sanctuaries/stellwagen\\_nms.html](http://ccma.nos.noaa.gov/ecosystems/sanctuaries/stellwagen_nms.html)  
[http://ccma.nos.noaa.gov/ecosystems/sanctuaries/chanis\\_nms.html](http://ccma.nos.noaa.gov/ecosystems/sanctuaries/chanis_nms.html)  
[http://www8.nos.noaa.gov/cit/nsandt/download/bi\\_monitoring.aspx](http://www8.nos.noaa.gov/cit/nsandt/download/bi_monitoring.aspx)  
<http://ccma.nos.noaa.gov/ecosystems/coralreef/coral2008/welcome.html>  
<http://ccma.nos.noaa.gov/publications/eutroudate/>