

# National Center for Coastal Ocean Science

Environmental Management System  
Implementation  
August 2005



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- **Environmental Management Systems**
- **NCCOS Progress to date**
- **NCCOS Recommended Objectives FY06**
- **NCCOS Schedule Going forward**



# Environmental Management Systems (EMS) were established to manage the environmental components of operations effectively and efficiently

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- In the early 1990's many organizations recognized that environmental issues were becoming a critical component of their operations and established risk-based business systems to manage these issues
- In 1995 the International Organization for Standardization (ISO) developed a standard, ISO 14001, that describes a standardized set of elements that comprise an environmental management system
- In 2000 the Presidential Executive Order (EO) 13148 Required Federal Agencies to implement Environmental Management Systems at appropriate facilities by December 31, 2005
- In XXXX NCCOS established an Environmental Policy confirming its commitment to implement an EMS for NCCOS as a single organization including each of its laboratories

# The EMS ties together an organization's environmental programs into a single integrated system that can be leveraged to drive improvement

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## **Increase Efficiency -**

- Reduce costs
- Free up personnel
- Compress schedules
- Increase capacity

## **Increase Control Over Risks -**

- Avoid breaks in operational continuity
- Accurately pinpoint weaknesses & future failures
- Efficiently focus resources on weaknesses

## **Improve Performance -**

- Reduce environmental impacts
- Avoid environmental costs
- Improve stakeholder perceptions



# NCCOS is establishing its EMS in 2005, next year it will start using the system to support NOAA's mission through improved management of environmental issues

## Step 1: Implement the System

### Design the Process for -

Identifying Risks  
Managing/Controlling Risks  
Assessing Performance  
Integrating Improvements

### Develop Procedures for -

Communication  
Training  
Contracting  
Recordkeeping  
Assessing, etc

## Step 2: Start Using the System



# The NCOSS EMS Team has made significant progress to date and has set aggressive targets to meet the EO 13148 December 2005 deadline

| EMS Implementation Elements   | Status    |
|---|-----------|
| <b>POLICY &amp; LEADERSHIP</b>  |           |
| 1. Identify Primary EMS Contact                                       |           |
| 2. Issue a local EMS policy document or commitment letter             |           |
| <b>PLANNING</b>   |           |
| 3. Identify significant environmental aspects and impacts             |           |
| 4. Identify EMS objectives and targets                                |           |
| <b>IMPLEMENTATION &amp; OPERATION</b>                                 |           |
| 5. Specify EMS operational controls                                   |           |
| 6. Assign EMS responsibilities  |           |
| 7. Identify EMS procedures  |           |
| <b>MONITORING PERFORMANCE</b>   |           |
| 8. Establish an internal EMS self-audit program                       | Nov. 2005 |
| <b>CONTINUAL IMPROVEMENT</b>  |           |
| 9. Establish a management review process                              | Nov. 2005 |
| 10. Complete the self-declaration process (or external certification) | Dec. 2005 |

|          |  |                    |  |            |  |
|----------|--|--------------------|--|------------|--|
| Complete |  | Partially Complete |  | Target Set |  |
|----------|--|--------------------|--|------------|--|

# EMS Team has recommended three areas of Focus for the EMS in support of the NCCOS Strategic Plan

## EMS Objective FY2005-2009

## Possible EMS Targets FY2006

**1. Manage the use of Natural Resources so as to support NCCOS's mission and balance society's environmental, social, and economic goals**

- Baseline number of chemicals used by NCCOS Labs
- Baseline core waste streams from NCCOS Labs
- Develop list of substitute materials

**2. Build capacity internally and in the private, local, state, and tribal sectors through education, technical assistance, and technology for effective natural resource and environmental management**

- Identify environmental management education needs within NCCOS
- Develop education programs for key NCCOS groups (managers, HR, etc.)
- Identify stewardship programs based on lab practices

**3. Ensure that environmental requirements of NCCOS operations are appropriately considered in the allocation of resources and development of policy**

- Baseline cradle to grave lab environmental costs
- Determine Agency benchmark for resource allocation practices



# Although a lot has been achieved, a final effort is needed to meet the Executive Order Deadline

