

Revision 12-2-10

Coastal and Marine Spatial Planning

Goal: Characterizing the region's ocean resources and improved understanding of areas that are suitable for different uses (e.g. energy development, conservation, fishing). The role of the Northeast Regional Ocean Council (NROC) is to organize state and federal agencies, and with other partners, to develop a regional Coastal and Marine Spatial Plan.

Summary:

NROC's state and federal members share common interest in a coastal and marine spatial planning (CMSP) process to support characterization of ocean resources to enable minimized use conflicts and improved decision making. The New England region leads the country in state-level marine spatial planning with individual efforts in Maine, Massachusetts and Rhode Island. The region sees the potential benefits of engaging in a regional planning exercise and envisions a "first generation" spatial plan for the region that would:

- Provide states with data and information for use in improving coastal/marine management;
- Help states look beyond borders at important and emerging regional issues;
- Build state capacity through potential new funds and products;
- Support region's renewable energy goals while protecting coastal resources;
- Strategically engage key partners who can contribute expertise, products and data to advance CMSP, and
- Improve communication with federal agencies and enable more efficient review of activities in the Exclusive Economic Zone (EEZ).

NROC has served as the convener for regional coastal and marine spatial planning discussions. NROC will foster and be closely associate with a Regional Planning Body called for in the Framework for Effective Coastal and Marine Spatial Planning released on July 19, 2010. Sub-regional efforts are anticipated due to unique characteristics of the region. Current state planning efforts and progress towards improvements in state-federal collaboration (i.e. regulatory streamlining, etc.) will continue and not be superseded by regional planning.

Accomplishments:

- **Comments to Ocean Policy Task Force on draft National Framework for Coastal and Marine Spatial Planning (October 2009)**
- **Regional Coastal and Marine Spatial Planning Workshop (November 2010)**

Activity Details:

1. Quantify progress on CMSP in New England

Actions:

- Document that inventories state, federal and partner progress (in product form) on CMSP in New England. This will enable region to catalog our accomplishments, tap existing expertise, and ensure an organic approach to regional CMSP.
- Serve as the forum for regional and sub-regional discussions.

With Existing Resources	With Additional Resources
Inventory of state, federal and partner progress on CMSP in New England.	
Serve as the forum for regional and sub-region discussions.	

2. Develop a CMSP Framework that will serve as an outline for how the region will proceed in developing a regional CMS Plan.

Actions:

- Framework reflecting input from states and federal agencies on NROC and partners
- Identification of partner contributions to framework (expertise, resources that can be applied to various parts of framework)
- Facilitated discussion of Governance Structure to advance CMSP in New England
- Schematic and narrative that describe the relationship between NROC and the New England CMSP Regional Planning Body.
- Develop a proposal for a regional Coastal and Marine Spatial Plan based on NROC's draft framework.

With Existing Resources	With Additional Resources
Framework reflecting input from states and federal agencies on NROC and key partners	Implementation of framework (see Framework for details)
Identification of partner contributions to framework (expertise, resources that can be applied to various parts of framework)	
Facilitated discussion of Governance Structure to advance CMSP in New England	
Schematic and narrative that describe the relationship between NROC and the New England CMSP Regional Planning Body.	
Proposal for NOAA Regional Ocean Partnership Funding Program (Due December 10, 2010)	

3. Develop a regional data portal that identifies regional CMSP data needs and priorities.

(Note: This is part of a larger **Northeast Data Portal** project led by the Gulf of Maine Research Institute, NERACOOS, Massachusetts Ocean Partnership, The Nature Conservancy, and Applied Science Associates).

Actions:

- Maintain communication between NROC and Northeast Data Portal project, including periodic briefings with NROC members to align management needs with plan for regional data portal
- Provide demonstration of Northeast Data Portal to NROC at key milestones
- Data inventory focused on key data themes that support CMSP applications and products
- Develop a proposal for full regional data portal project (**see also OCEH Activity #1 and OEPM Activities #1**)

With Existing Resources	With Additional Resources
Maintain communication between NROC and Northeast Data Portal project	Collect, host, and display key data themes (existing) that support CMSP applications and products
Data inventory focused on key data themes	Collect, host, and display key data themes

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that support CMSP applications and products	(new acquisition) that support CMSP applications and products
Provide demonstration of Northeast Data Portal to NROC at key milestones	
Develop a proposal for full regional data portal project	

2010-2012 Ad-Hoc Committee Members:

John Weber, MA Executive Office of Energy and Environmental Affairs (State Co-chair)

Betsy Nicholson, NOAA (Federal Co-chair)

Appendix 1: DRAFT NROC Outline for CMSP Process in New England 10-15-10

DRAFT Outline of Regional Coastal and Marine Spatial Planning Process for New England

DISCLAIMER: The Northeast Regional Ocean Council (NROC) has drafted this outline as a starting point for the New England region and to identify, generally, the process and substantive needs to develop a Coastal and Marine Spatial Plan (CMSP) for the region. The intent is to develop a plan that builds on the considerable accomplishments in the region and is consistent with recently issued federal requirements and guidance. NROC realizes that this preliminary outline does not reflect the perspectives of all stakeholders, including those who will have a formal role in the planning process.

Purpose: NROC is committed to assisting in the development of a regional coastal and marine spatial plan to support ecosystem-based management of New England's marine environment and its human uses, working collaboratively with government, tribal partners and stakeholders.

NROC goals are to:

1. Achieve state and regional renewable energy goals (and other appropriate energy-related goals).
2. Strive for healthy, resilient marine ecosystems, including protection of ecologically significant areas, to ensure the continued provision of desired ecosystem services
3. Enable sustainable coastal economies through the support of marine resource management goals and by supporting sustainable, safe, secure, efficient, and productive human uses. For example, support existing fisheries regulatory entities (recognizing existing authority through the Magnuson-Stevens Act and state fishing regulations) to identify ways to pursue shared goals such as the protection of fishery resources and fisheries economy from non-fishing activities that adversely impact fisheries.
4. Facilitate multiple uses while minimizing conflict among uses and between uses and natural resources

NROC Desired Coastal and Marine Spatial Planning Outcomes

A regional plan that:

1. Is based on a clear set of operating principles (outlined below).
2. Reflects regional goals and objectives (specific, measurable where possible) and states' priorities
3. Characterizes a baseline of existing environmental resources and human uses, and builds upon this baseline to develop alternative future scenarios of human uses based upon compatibility of potential new uses with existing uses and environmental resources.
4. Establishes a structure for ongoing interactions between NROC, the Regional Planning Body, states, federal and tribal entities, and other stakeholders
5. Identifies ecologically important resources/areas and areas for potential human uses
6. Provides broad-scale information for renewable energy planning and siting, and other energy-related issues
7. Is implemented through federal, state, (and local if appropriate) agency authorities, policies, and regulations
8. Establishes regional management policies/guidelines
9. Establishes a framework for evolution of management strategies based on periodic evaluation of plan performance
10. Identifies priority supporting data needs

11. Identifies effective mechanisms for conflict resolution. The Interagency Task Force model acknowledges that disagreement might at the regional council level and that some decisions may go to the National Ocean Council.

NROC Operating Principles:

- Regional ocean planning should recognize that the ocean ecosystem includes human activities; a healthy ocean ecosystem is the basis for all of the benefits gained from our interactions with the ocean
- Regional coastal and marine spatial planning should minimize conflicts between new and existing uses and reduce conflicts between human uses and the natural environment
- Regional coastal and marine spatial planning should focus on results, including a comprehensive environmental characterization of the planning area with focus on achievable results (short term and longer term)
- Initial priorities include energy siting (particularly wind energy), environmental conservation, and support of sustainable human uses
- The scale and level of detail of the plan should be commensurate with: the data available (either existing or acquirable) for the three year planning process, the decisions being made by the Regional Planning Body and other stakeholders, the capacity of the region to engage, develop and implement an effective process and plan, and with biogeographic distinctions within the region
- The planning process will engage and reflect the participation of stakeholders and the public
- The planning process will be participatory and transparent (and an early action should be to define the terms of this bullet and the preceding bullet)
- The CMSP process should be seen as a continuing, adaptive process that will continue beyond the plan produced in the first three year period

Goal 1: Determine the goals, objectives, desired outcomes and planning framework for the New England region, with broad-based public and stakeholder participation supported by member states, tribes, and federal agencies; ensure continuing, broad-based participation throughout planning process.

Objective 1.1 Ensure that each step of the CMSP process (goals and objectives, data acquisition, mapping, development of draft plan, etc) is informed by ongoing collaborative process

Action 1.1.1 – Develop CMSP process that incorporates broad-based participation of stakeholders, beginning with development of plan goals, objectives, and desired outcomes

Action 1.1.2 –Develop appropriate process/structure for the interaction of the Regional Planning Body with stakeholders

Objective 1.2 Implement process for regional stakeholder participation

Action 1.2.1 – Identify appropriate stakeholders (federal, regional, state, local)

Action 1.2.2 – Identify existing opportunities for stakeholder involvement and coordination with existing entities and efforts, including coordination with other regional ocean planning efforts (such as through the Mid Atlantic Regional Council on the Ocean) as needed

Action 1.2.3 – Implement appropriate public involvement mechanisms during all stages of plan development (goal setting, data acquisition, mapping, review of draft plan, etc.).

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Consider setting up work groups and/or advisory bodies (re: data, science, legal, e.g.) to assist with plan development and enhance stakeholder involvement.

Goal 2: Understand the ecological, social and economic environment of the planning area as the basis for sound CMSP and management

Objective 2.1 Identify geographic scope and appropriate scale of information: Define planning area, including consideration of the need for sub-regional components and coordination with MARCO.

Objective 2.2 Characterize baseline information on environmental, social, and economic aspects of the planning area that is of priority interest using an ecosystem services approach to help organize the characterization and prioritize data needs (identifying existing and desired human benefits derived from the ocean ecosystem will also enable tradeoff/scenario analysis described below) while considering inputs and linkages beyond the planning area.

Action 2.2.1– Define the term "ecosystem services" and consider the level of sophistication such an approach requires in terms of data, modeling, and scientific understanding and the extent to which available data/understanding lend themselves to such an approach

Action 2.2.2– Identify specific parties responsible for data gathering, housing, and analysis in support of regional plan and ways to overcome any practical limitations.

Objective 2.3 Define appropriate temporal and spatial scales for data gathering and analysis, recognizing different scale requirements depending on the variable and the planning area (and any sub-regional components).

Objective 2.4 Develop baseline characterization of ecological, social and economic conditions for the planning area

Action 2.4.1 – Based on goals and objectives, and results of Objectives 2.1, 2.2, and 2.3, develop inventory of priority, available baseline characterization data components (may include projections of anticipated/desired conditions), including human uses, natural resources (including existing stressors and consideration of future implications of climate change), natural processes (currents, etc.)

Action 2.4.2 – Develop inventory of available qualitative information (e.g., preliminary characterization of certain human uses such as recreational activities for which little spatially explicit data exists) to help identify gaps in quantitative information related to the ecosystem services definition identified in Action 2.2.1

Action 2.4.3 – Develop derived products from existing data, such as characterizations of existing cumulative effects, representations of ecosystem services models, and/or other related, pertinent, useful products.

Action 2.4.4 – Prepare maps + accompanying text that describe the baseline characterization

Objective 2.5 Identify future spatial data needs to achieve management goals and objectives

Action 2.5.1 – Identify geographic or issue-based data gaps, or data products, necessary to achieve plan goals and objectives

Action 2.5.2 – Develop work plan to complete items in Action 2.5.1, considering existing efforts and national standards for housing/serving data. DRAFT NROC Outline for CMSP Process in New England 10-15-10 Page 4

Goal 3: Identify Areas for Potential Conservation

Objective 3.1 Identify ecologically significant areas

Action 3.1.1– Define “ecologically significant”, considering issues related to geographical scale, climate change effects and shifts in habitat, protection of biodiversity, vulnerability of habitats/species to particular human uses, understanding of and ability to map significant oceanographic processes and important geologic features, and state of scientific understanding of the ecosystem; consider application of ecosystem services approach outlined in Objective 2.1 above.

Action 3.1.2–On a parallel track with Action 3.1.1, develop inventory of existing spatial and temporal data (species/habitats): the limits of existing data may limit the definition of ecologically significant.

Action 3.1.3–Develop methodology for using data to spatially represent output of Action 3.1.1

Action 3.1.4—Developing alternative future spatial scenarios to ensure areas in need of additional attention for conservation are considered simultaneously with identification of areas for potential future use, tradeoffs are evaluated, etc. (see description in Objective 4.1)

Action 3.1.5 – Identify areas potentially in need of additional attention for conservation

Objective 3.2 Identify management measures to achieve conservation goals (based on the definition developed in Objective 3.1, stakeholder input, etc.) for areas identified in Action 3.1.4

Action 3.2.1 – Develop management objectives for areas identified in Action 3.1.4

Action 3.2.2 – Identify regulatory and non-regulatory management measures to achieve objectives

Action 3.2.3 – Identify appropriate federal/state coordination mechanisms

Action 3.2.4 – Identify future data/information needs to further management objectives

Goal 4: Identify Areas for Potential Future Uses

Objective 4.1 Identify locations for potential future uses

Action 4.1.1 – Determine the characteristics of the ocean area that are essential to or desired by various ocean uses, based on technology, space requirements, related infrastructure requirements, consideration of natural processes, etc.

Action 4.1.2 – Determine spatial and temporal conflicts and compatibilities among human uses and between human uses and the natural environment; consider application of ecosystem services approach outlined in Objective 2.1 above

Action 4.1.3 – Project current trends of existing human activities

Action 4.1.4 – Estimate spatial requirements for new demands for ocean space

Action 4.1.5 – Develop alternative future spatial scenarios representing attempts to achieve stated goals for new uses/economic activity, applying tools or models to aid in visualization of scenarios/tradeoffs

Action 4.1.6 – Specify criteria for evaluating alternative spatial scenarios and making trade-offs

Action 4.1.7 – Assess tradeoffs and identify preferred spatial scenario for the region

Action 4.1.8 – Assess compatibility of preferred spatial scenario with existing comprehensive or targeted management plans

Action 4.1.9 – Identify areas suitable for potential uses/development DRAFT NROC Outline for CMSP Process in New England 10-15-10 Page 5

Objective 4.2 For renewable energy (and other appropriate energy-related issues including transmission), identify plan-specific management measures for achieving identified state and regional goals and objectives. Specifically:

Action 4.2.1 –Identify existing marine renewable energy goals as expressed by individual states, regionally, and nationally; incorporate other energy goals as appropriate.

Action 4.2.2—Identify opportunities and obstacles to achieving those goals, e.g. related to the existing grid/infrastructure, technology

Action 4.2.3 – Based on the results of Actions 4.2.1 and 4.2.2, and incorporating the approach identified in Objective 4.1, identify areas potentially suitable for commercial renewable energy development and/or that address other energy-related issues (such as transmission).

Objective 4.3 Identify areas significant for commercial and recreational fishing

Action 4.3.1– Define “significant for commercial and recreational fishing”, considering issues related to geographical scale, shifts in effort over time, and state of scientific understanding

Action 4.3.2– Develop inventory of existing spatial and temporal data on commercial and recreational fishing

Action 4.3.3 – Develop methodology for using data to spatially represent outcome of Action 4.3.1

Action 4.3.4 –For all steps in Objective 4.3, coordinate with appropriate fisheries regulatory entities and support shared goals such as the protection of fishery resources and fisheries economy from non-fishing activities.

Objective 4.4 Identify management measures to advance the interests of areas identified in Objectives 4.1, 4.2, and 4.3

Action 4.4.1 - Develop policy statements for areas identified in Action 4.1.6 and 4.2.3. For areas identified in Action 4.3.3, coordinate with fisheries regulators to develop these policy statements.

Action 4.4.2 – Identify regulatory and non-regulatory management measures for areas identified in Action 4.1.6 and 4.2.3. For areas identified in Action 4.3.3, coordinate with fisheries regulators to develop appropriate management measures.

Action 4.4.3 – Identify appropriate federal/state coordination mechanisms

Action 4.4.4 – Identify future data/information needs to further management objectives

Goal 5: Develop a performance monitoring and evaluation system as part of the CMSP plan to inform plan adaptation over time

Objective 5.1 Identify performance indicators for the CMSP plan

Action 5.1.1 – Ensure that performance indicators are measurable, cost-effective, concrete, interpretable, sensitive, and grounded in scientific theory

Objective 5.2 Design and implement a monitoring system, based on the performance indicators, that will measure the performance of the management measures of the CMSP plan.

Objective 5.3 Periodically evaluate results from the performance monitoring system (using tools for visualizing and communication such results) and develop recommendations to adapt the CMSP plan as necessary DRAFT NROC Outline for CMSP Process in New England 10-15-10 Page 6

Goal 6: Provide regional management governance structure and coordination mechanisms for integrated state, tribal and federal CMSP and decision-making

Objective 6.1 Building on the success of NROC, recommend operating principles and structure for a regional ocean management body in response to the National Framework for CMSP and Executive Order

Action 6.1.1 –Develop and evaluate options

Action 6.1.2 –Seek advice on stakeholder and partner engagement

Action 6.1.3 Seek support from National Ocean Council on preferred management structure and mechanisms for achieving regional goals

Objective 6.2 Review existing regulatory, management and planning frameworks to identify how they can be integrated and improved to achieve regional CMSP goals and objectives

Action 6.2.1– Review existing frameworks, including the authority vested in the regional plan from the Framework and Executive Order, and identify roadblocks to necessary changes and opportunities to achieve desired outcomes through existing federal and state law and regulation.

Action 6.2.2– Make recommendations for needed changes to enhance consistency of agency determinations with plan

Action 6.2.3– Develop regional management policies to guide future state and federal planning/review/ regulatory actions in the planning area, including mechanisms to resolve conflicts (note the national framework as a starting point for that).

Objective 6.3 Develop CMSP plan, which may include discrete sub-regional components, consistent to the extent possible with other state, federal and regional management plans and regulations

Action 6.3.1 – Define existing management measures to incorporate into plan, recognizing basic issues of ownership, public trust rights and responsibilities, and implementing authority.

Action 6.3.2 – Develop future coordination mechanisms with pertinent agency regulators to achieve shared goals and objectives and methods for resolving conflicts

Action 6.3.3 –Propose amendments to existing state and federal laws, policies, and programs to further plan goals and objectives

Action 6.3.4 – Identify future data/information needs to achieve management goals and objectives