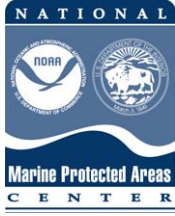


# FRAMEWORK FOR THE NATIONAL SYSTEM OF MARINE PROTECTED AREAS OF THE UNITED STATES OF AMERICA



NOVEMBER 2008





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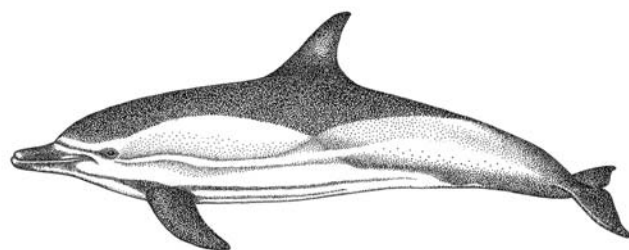
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FRAMEWORK FOR THE NATIONAL SYSTEM OF  
**MARINE PROTECTED AREAS**  
OF THE UNITED STATES OF AMERICA



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FRAMEWORK FOR THE NATIONAL SYSTEM OF MARINE PROTECTED AREAS OF THE UNITED STATES OF AMERICA





# EXECUTIVE SUMMARY

Increasing impacts on the world's oceans from coastal and offshore development, overfishing, a changing climate, natural events, and other sources are straining the health of marine ecosystems and the Great Lakes. Impacts to these intricately balanced environments include declining fish populations, degradation of coral reefs and other vital habitats, threats to rare or endangered species, and loss of artifacts and resources that represent the diverse cultural heritage of the United States. The effects of these losses are significant and jeopardize the social and economic fabric of the nation.

In the United States and around the world, marine protected areas (MPAs) are increasingly recognized as an important and promising management tool for mitigating or buffering some of these impacts. When used effectively and as a part of a broader ecosystem-based approach to management, MPAs can help to restore and maintain healthy marine and Great Lakes environments by contributing to the overall protection of critical marine habitats and resources. In this way, effective MPAs also can offer social and economic opportunities for current and future generations, such



as tourism, biotechnology, fishing, education, and scientific research.

MPAs are designated and managed at all levels of government by a variety of agencies including parks, fisheries, wildlife, natural resource and historic resource departments, among others. U.S. MPAs have been established by well over 100 legal authorities, with some federal and state agencies managing more than one MPA program, each with its own legal purpose. There are approximately 1,700 existing MPAs in the United States that have been established by federal, state, territorial, and local governments to protect and conserve the nation's rich natural and cultural marine heritage and sustainable production resources. These MPAs have been designated to achieve a myriad of conservation objectives, ranging from conservation of biodiversity hotspots, to preservation of sunken historic vessels, to protection of spawning aggregations important to commercial and recreational fisheries. Similarly, the level of protection provided by these MPAs ranges from fully protected or no-take marine reserves to sites allowing multiple uses, including fishing, recreational, and industrial uses.

Recognizing the significant role that U.S. MPAs play in conserving marine heritage and sustainable use, and the lack of a national institution for comprehensive MPA planning, coordination, and support, Presidential Executive Order 13158 of May 26, 2000 (Order), found in Appendix D of this document, calls for the development of a National System of Marine Protected Areas (national system). The Order clearly calls for a national and not a federal system, and requires collaboration not only with other federal agencies, but also with coastal states and territories, tribes, Regional Fishery Management Councils, and other entities, as appropriate, including the MPA Federal Advisory Committee. The Order further specifies that the national system be scientifically based, comprehensive, and represent the nation's diverse marine ecosystems and natural and cultural resources.

To provide a blueprint for building the National System of MPAs,<sup>1</sup> the Order calls for the development of a framework for a National System of MPAs and directs the establishment of a National MPA Center (MPA Center) within the National Oceanic and Atmospheric Administration (NOAA) to lead the system's development and implementation. This final *Framework for the National System of MPAs of the United States of America* (Framework) is the result of a multi-year development effort. The first draft Framework received over 11,000 comment submissions (composed of comments from 100 individual commenters and a petition from nearly 11,000 people) during its September 2006 to February 2007 public comment period. A second draft addressing these comments was published for public comment from March-May 2008, and received 34 public comment submissions. The MPA Federal Advisory Committee also provided two sets of recommendations on the Framework that have contributed significantly to its final form.

The Framework recognizes that U.S. MPA programs can achieve more efficient, effective conservation of the nation's important natural and cultural resources by working together rather than separately, and that many solutions require collaboration across programs with their own individual mandates, levels of government, and even international boundaries. It proposes a national system that is, initially, an assemblage of existing MPA sites, systems, and networks established and managed by federal, state, territorial, commonwealth, tribal, or local governments, acknowledging and building upon the contributions of these foundation programs. In addition, the Framework outlines collaborative, transparent processes for MPA programs at all levels of government to work together at regional, national, and international levels and with public participation to achieve common conservation objectives through comprehensive MPA planning; identification of enhanced or new MPAs that may be needed; and support for improved MPA science, stewardship, and effectiveness.

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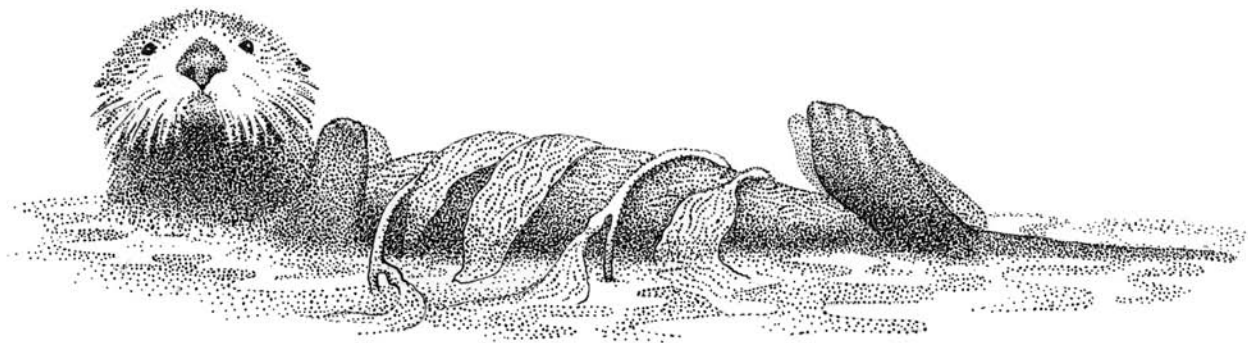
<sup>1</sup> The purpose of this document is to provide a framework for developing and implementing a National System of MPAs; it is not a blueprint for the establishment of individual MPAs.



## THE FRAMEWORK OUTLINES THE FOLLOWING KEY COMPONENTS OF THE NATIONAL SYSTEM:

- A set of overarching national system goals and priority conservation objectives.
- MPA eligibility criteria and other key definitions.
- A nomination process for existing MPAs to be included in the national system that provides opportunities for public input.
- A science-based, public process for identifying conservation gaps in the national system.
- A process for improving regional and ecosystem-based coordination of MPAs by:
  - creating new or strengthening existing regional forums for MPA coordination;
  - identifying and catalyzing action to address shared priorities for improving MPA science, stewardship, and effectiveness; and
  - developing collaborative, ecosystem-based MPA planning to identify and recommend MPAs for inclusion in the new national system.
- Mechanisms for national and international coordination.
- Implementation guidance regarding federal agency responsibilities to avoid harm to resources protected by the National System of MPAs.
- Mechanisms for monitoring, evaluating, and reporting on national system progress and priorities.

Through collaborative efforts among U.S. MPA programs and stakeholders, the national system can achieve the Order's goal of enhancing the comprehensive conservation of the nation's natural and cultural marine heritage and the ecologically and economically sustainable use of the marine environment for present and future generations.

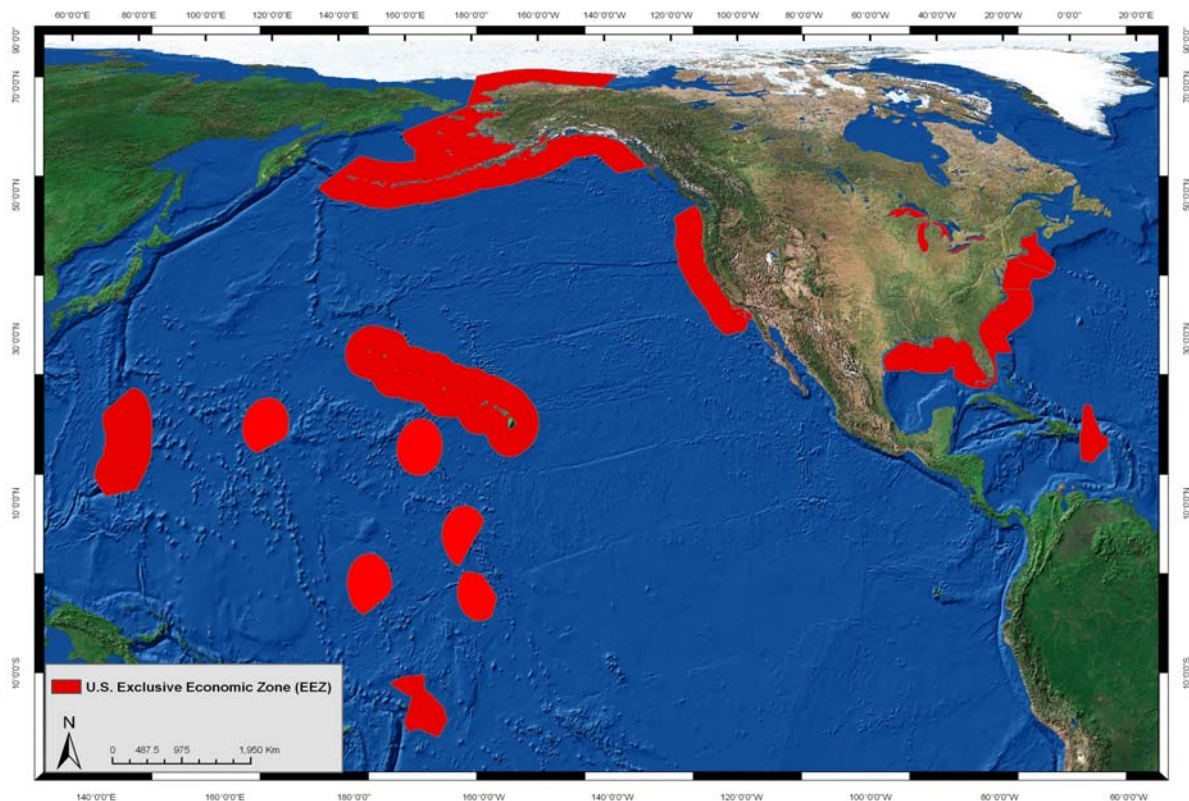




**Marine Protected Area** – *Any area of the marine environment that has been reserved by federal, state, territorial, tribal, or local laws or regulations to provide lasting protection for part or all of the natural and cultural resources therein. (Executive Order 13158)*

**National System of MPAs** – *The group of MPA sites, networks, and systems established and managed by federal, state, tribal, and/or local governments that collectively enhance conservation of the nation's natural and cultural marine heritage, and represent its diverse ecosystems and resources. National system MPAs work together at the regional and national levels to achieve common objectives for conserving the nation's important natural and cultural resources.*

**Figure 1: U.S. Exclusive Economic Zone**



## II. INTRODUCTION

### A. BACKGROUND

With the world's largest Exclusive Economic Zone (Figure 1), the coastal, marine, and Great Lakes waters of the **United States**<sup>2</sup> support an incredible diversity and wealth of life. These waters also play host to untold special places that represent our rich cultural heritage and connections to the sea. In the same way, myriad human uses, livelihoods, and other activities take place in the marine and coastal environment, benefitting from and relying upon the sustained health of our nation's vast natural and cultural heritage.

As human populations grow and use of marine resources increases, so do the pressures and stresses exerted on these intricately balanced ecosystems. Ensuring the long-term health of these ecosystems and the sustained benefits on which humans depend requires comprehensive management approaches. In the United States and many other countries around the

<sup>2</sup> Important terms are in bold the first time they are used and defined in the Glossary found in Section VI of this document.



**“Based on evidence from existing marine area closures in both temperate and tropical regions, marine reserves and protected areas will be effective tools for addressing conservation needs as part of integrated coastal and marine area management.”**

**“MPAs, areas designated for special protection to enhance the management of marine resources, show promise as components of an ecosystem-based approach for conserving the ocean’s living assets.”**

**“Integration of management across the array of federal and state agencies will be needed to develop a national system of MPAs that effectively and efficiently conserves marine resources and provides equitable representation for the diversity of groups with interests in the sea.”**

*Committee on the Evaluation, Design, and Monitoring of Marine Reserves and Protected Areas in the United States, Ocean Studies Board, Commission on Geosciences, Environment, and Resources, National Research Council, /Marine Protected Areas: Tools for Sustaining Ocean Ecosystems./ Washington, D.C.: National Academy Press, 2001.*

world, marine protected areas (MPAs) are increasingly recognized and used as important tools for the conservation and sustainable use of marine resources and as an important component of a comprehensive management approach.

Recognizing the expanding role and importance of MPAs in the United States, Presidential Executive Order 13158 of May 26, 2000 (Order) directs the Department of Commerce (DOC) and the Department of the Interior (DOI), in consultation with other federal agencies,<sup>3</sup> to develop a **National System of Marine Protected Areas** (national system).

The Order specifies that this is to be a *national* and not a *federal* system and requires consultation with all **states** (this includes U.S. states, territories, and commonwealths as defined in the Glossary,

Section VI) that contain portions of the marine and Great Lakes environment; **tribes**; Regional Fishery Management Councils (FMCs); and other entities, as appropriate, including the Marine Protected Areas Federal Advisory Committee (MPA FAC) established by the Department of Commerce under the Order. The Order further specifies that the national system be scientifically based and comprehensive, and that it represent the diverse marine **ecosystems** of the United States and the nation’s **natural** and **cultural resources**.

To provide a roadmap for building the national system, the Order calls for the development of a framework for a National System of MPAs and establishes the National MPA Center (MPA Center) within DOC’s National Oceanic and Atmospheric Administration (NOAA) to develop the system and coordinate its subsequent implementation. This *Framework for the*

<sup>3</sup> The Department of Defense, the Department of State, the United States Agency for International Development, the Department of Transportation, the Environmental Protection Agency, the Department of Homeland Security, the National Science Foundation, and other pertinent federal agencies.

*National System of Marine Protected Areas of the United States of America* (Framework) outlines collaborative processes for building this assemblage of existing MPA sites, networks, and systems established and managed by federal, state, tribal, or **local governments** and for collectively working together at the **regional** and national levels to achieve common objectives for conserving the nation's important natural and cultural resources.

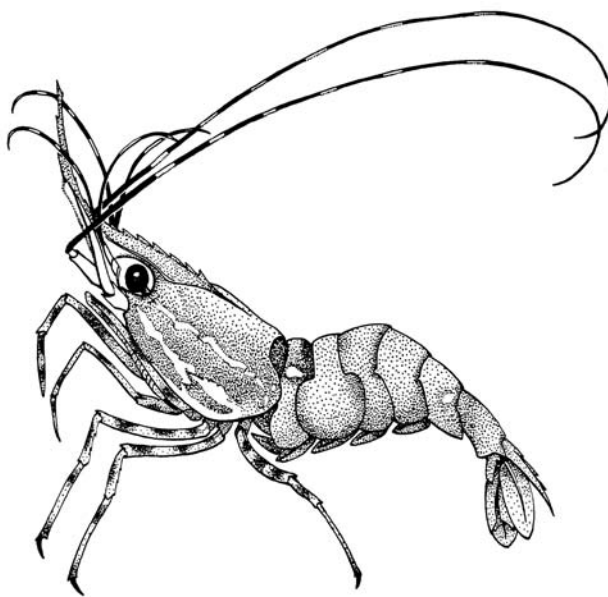
For the purposes of the national system, the term “**marine protected area**” (MPA) is defined by the Order as, “Any **area** of the **marine environment** that has been **reserved** by Federal, State, territorial, tribal, or **local** laws or regulations to provide **lasting protection** for part or all of the natural and cultural resources therein.” The term MPA, as defined and further clarified and used in this document, is not synonymous with or limited to “no-take reserves” or “marine reserves.” The term MPA used here denotes an array of levels of protection and conservation purposes, from areas that allow multiple-use activities to areas that restrict take and/or access. To meet the nation's goals for conserving **natural heritage** and **cultural heritage** and achieving **sustainable production** of resources found in the coastal and marine environments, the national system must include an approach to balancing types and levels of MPA protections that is science-based and **stakeholder** informed. The national system is intended to be inclusive of MPAs across the spectrum of levels of protection, from multiple-use to no-take, recognizing that existing MPAs across this spectrum offer different values to the national system that can help meet its goals and objectives.

While MPAs are an important tool for marine conservation, other types of management approaches are employed to address marine conservation

objectives while allowing other appropriate uses and activities in the marine environment to take place in an economically and environmentally sustainable manner. Like other tools, MPAs should be carefully designed and implemented to meet specific conservation goals. Efforts to develop the national system must be both coordinated and integrated within the larger, evolving ecosystem-based approach to managing marine resources.

Neither the national system nor the Order establish any new legal authorities to designate, manage, or change MPAs, nor do they alter any existing federal, state, local, or tribal MPA laws or programs. Each MPA or program that participates in the national system will continue to be independently managed by its respective entity or entities, as will any new sites that eventually may be established by those authorities. The national system is intended to support, not interfere with, agencies' independent exercises of their own existing authorities. The national system is therefore envisioned as a “system of sites and systems” that will be developed to achieve conservation and management objectives that could not be accomplished by individual MPAs or MPA programs working independently.

Furthermore, the *requirements* outlined in the Order, which provide the legal authority for establishing the national system, apply only to the actions of federal agencies. The Order does not direct the actions of states or tribes, or alter any existing state, local, or tribal authorities or treaties regarding the establishment or management of MPAs or marine resources under their jurisdiction. Finally, nothing in this document is to be construed as altering existing authorities regarding the establishment of federal





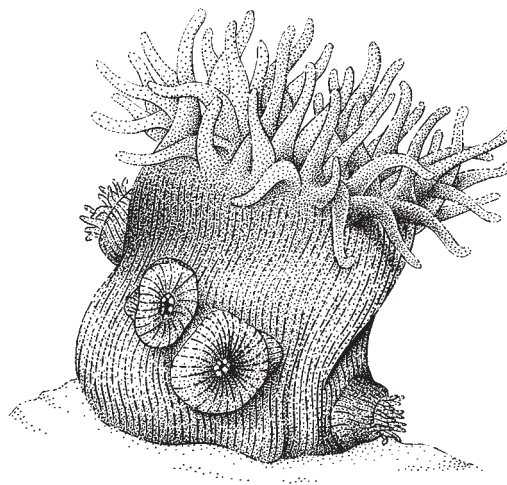


MPAs in areas of the marine environment subject to the jurisdiction and control of states, tribes, or local governments.

While the Order's requirements apply only to federal agencies, the full and ongoing participation of state, tribal, and local governments is critical to an effective national system. MPAs are designated and managed at all levels of government by a variety of agencies including parks, fisheries, wildlife, and natural resource and historic resource departments, among others. U.S. MPAs have been established by over 100 legal authorities, with some federal and state agencies managing more than one MPA program, each with its own legal purpose. Given the importance of the marine resources they manage and their wealth of experience in doing so, building and implementing the national system in partnership with state, tribal, and local governments is a major emphasis of the Framework. A full description of the range of existing U.S. MPA programs, federal MPA initiatives and tribal and international efforts can be found in Appendix B of this document. In light of this breadth of existing U.S. MPA responsibilities, the Order recognizes the need and calls for a national, rather than federal, system of MPAs with a geographic scope that spans the U.S. waters of the Pacific Ocean, including the Bering Sea; Atlantic Ocean, including the Gulf of Mexico and Caribbean Sea; Arctic Ocean; and the Great Lakes.

By establishing an effective structure for working together, the national system will help to increase the efficient protection of important marine resources; contribute to the nation's overall social and economic health; support government agency cooperation and integration; and improve the public's access to

scientific information and decision making about the nation's marine resources. It affords all system members the protections of Section 5 of the Executive Order, which requires federal agencies to avoid harm to the natural and cultural resources protected by MPAs within the national system, to the extent permitted by law and to the maximum extent practicable. The collaborative efforts of the national system are also intended to benefit the participating federal, state, tribal, and local government partners through the identification of shared priorities for improving MPA effectiveness and the development of partnerships to provide assistance in meeting those needs. Finally, the national system provides a foundation for cooperation with other countries to conserve resources of common concern.



## B. DEVELOPING THE FRAMEWORK

In developing this Framework, the MPA Center engaged the nation in a multi-year dialogue to ensure that the national system represents the nation's interests in the conservation and sustainable use of its natural and cultural marine resources.

The MPA Center

continues to work with and solicit input from federal, state, tribal, and local government partners, FMCs, stakeholder groups, and the general public about their perspectives on the national system.

Recommendations and comments from the MPA FAC, states, tribes, federal agencies, FMC representatives, and non-governmental stakeholders have provided the foundation of viewpoints and information on which this document is constructed. Moreover, many of the core concepts presented in this document stem directly from the recommendation documents and reports submitted by the MPA FAC and states.

The MPA Center led a broad and inclusive public scoping process to develop the initial draft Framework starting in 2005, and conducted general discussions about the purpose of the national system as early as 2001. Specific recommendations during the scoping process were sought and received from the MPA FAC, composed of 30 individual members of the public representing the range of the nation's MPA stakeholders and geographic areas; an MPA State Advisory Group convened by the Coastal States Organization and the MPA Center; and the Federal Interagency MPA Working Group, which provides ongoing, coordinated advice from federal agencies on the implementation of the Order. A full description of the MPA FAC can be found in Appendix B and a list of the MPA FAC members and the Federal Interagency MPA Working Group representatives can be found in Appendix E. The MPA Center also held a series of five regional public dialogue meetings around the country to provide stakeholders with an opportunity to include their input and advice and three regional state workshops to solicit their views. Comments and recommendations received during the scoping process were reviewed and considered in the development of the initial Draft Framework and copies of these and other related materials can be found at <http://www.mpa.gov>.

The initial Draft Framework was available for public comment between September 2006 and February 2007. The MPA Center received over 11,000 comment submissions comprised of approximately 100 comments from individual commenters and a petition from nearly 11,000 people requesting the development of a nation-wide system of fully protected or "no-take" reserves. In addition, in April and October 2007, the MPA Center solicited and received additional advice and comments from the MPA FAC about options for revising the Framework.

The Revised Draft Framework was made available for public comment from March 15, 2008, through May 16, 2008. The MPA Center received 34 comment submissions during this comment period. During both comment periods, comments were received from

state government agencies, industry and conservation organizations, tribal groups, various advisory bodies, and members of the public. In developing this final Framework, the MPA Center considered all comments received during both comment periods as well as the recommendations of the MPA FAC. With the publication of this final Framework, the MPA Center will now initiate implementation of the national system. Plans and guidance documents outlining next steps in the implementation process will be posted at <http://www.mpa.gov>.

### C. BENEFITS OF AN EFFECTIVE NATIONAL SYSTEM

The national system offers numerous benefits above and beyond the benefits realized by participating MPA sites and programs individually. These benefits would accrue to the nation as a whole, as well as at regional and local levels. Benefits would extend across the full spectrum of users and stakeholders, including both consumptive and non-consumptive users. The following list reflects some of the potential benefits from the creation and effective management of the national system.<sup>4</sup>

#### Enhanced Conservation

- **Representativeness** – The national system will significantly boost ongoing efforts to preserve the natural and cultural heritage of the United States by ensuring that the diverse characteristics of the natural and social environment of the nation's seas are conserved for future generations in a systematic way. The representation of all ecosystem or habitat types in all the nation's marine regions, which includes the Great Lakes, within a single system will help ensure that the full complement of biodiversity and valued areas will be protected.
- **Connectivity** – The national system provides an opportunity to identify and establish networks of MPAs that are ecologically

<sup>4</sup> Adapted from MPA FAC, October 2007.



connected. An ecological network of MPAs is a set of discrete MPAs within a region that is functionally connected through dispersal of reproductive stages (eggs, larvae, spores, etc.) or movement of juveniles and adults. Properly designed and located, these networks can enhance linkages between sources and sinks for many marine organisms, which may be essential for some local populations to persist—an increasingly serious challenge in a rapidly changing environment. Planning at the national and regional scales provides an opportunity to address connectivity for many different marine organisms at different spatial scales.

- **Enhanced Stewardship** – The national system can help protect MPAs against the harmful effects of onsite or offsite activities through enhanced regional coordination, public awareness, site management capacity, recognition of these MPAs as important conservation areas, and application of the protective measures in Section 5 of the Executive Order.

## Social and Economic Benefits

- **Increased Visitation** – The establishment and recognition of the national system could be an incentive for increased tourism and visitation of some MPAs, as well as an increase in visitation and enjoyment of areas system-wide, providing for uses such as recreational fishing, diving, whale watching, and swimming.
- **Sustained Fisheries** – One goal of the national system is supporting sustainable production of harvested marine resources. Improved regional coordination and support for management, using MPAs where appropriate, could lead to enhanced fishing opportunities for both commercial and recreational fishermen as a result of species recovery, spillover and seeding effects, habitat protection, conservation of old-growth age structure and genetic diversity, establishment of reference sites to examine the regional effects of fishing, and better information on access opportunities.

- **Maintained Coastal Community Identity** – Creation of the national system could help foster social stability by helping to maintain cultural heritage and economic viability.
- **Non-extractive Uses** – Establishment of the national system could create additional system-wide non-consumptive benefits, such as aesthetic, bequest, and spiritual values; opportunities for viewing and photographing marine wildlife; wilderness experiences; scientific research; education; and appreciation of natural resources and the importance of their management.
- **Enhanced Planning for Ocean Uses** – Identification of national system MPAs, as well as identification of areas important for conservation identified through a gap analysis, will help inform regional-scale planning and decision making associated with a wide range of ocean uses. This could also contribute to a more predictable regulatory environment for ocean industry.

## Public Awareness, Understanding, and Education

- **Increased Support for Marine Conservation** – The national system recognizes the immense value of our nation's oceans and coasts and could help boost marine conservation by elevating the public profile of MPAs as a management tool. The designation of existing MPAs as part of the national system could enhance the stature of these sites within their managing entities and their local communities, as well as nationally and internationally. This designation also could build support for investment in appropriately established MPAs. Recognition of protected areas in other national or global systems (e.g., the National Estuarine Research Reserve, National Trail, and National Wilderness systems; United Nations Educational, Scientific, and Cultural Organization's World Heritage Sites; Ramsar Wetland sites) has had similar results.

- **More Effective and Efficient Outreach** – The national system will be an important and efficient mechanism for increased public awareness and understanding of the importance of marine resources and conservation efforts. Coordinated outreach efforts will increase the impact of outreach by individual MPAs, and could result in cost savings. Including worthy, but currently little known, sites in the national system could bring increased recognition and visibility to these areas.
- **Promotion of Cultural Heritage** – Participation in the national system elevates and enhances the recognition of and appreciation for the cultural heritage value of MPA sites.
- **Enhanced Educational Opportunities** – The creation of the national system will present enhanced opportunities for natural and cultural heritage education. This could include onsite education and interpretation, as well as classroom and web-based resources. The national system will be a valuable tool for educating students and visitors about the nation’s diverse marine and coastal ecosystems and cultural resources.
- **Enhanced Research Opportunities** – The national system will provide scientists and managers more opportunities to understand the dynamics of marine ecosystems and human interactions with them under different management regimes.
- **Improved Gap Analysis and Planning** – The formation of the national system will help highlight gaps in protection of important places for which MPAs might be considered to meet priority conservation objectives. This will inform future planning efforts to create MPAs to fill the identified gaps.
- **Enhanced Interagency Cooperation** – The creation of the national system will provide an unprecedented venue and catalyst for increased cooperation among the diverse entities across all levels of government with management authority for the different types of MPAs that comprise the national system. The existence of national system MPAs in the same region is intended to stimulate cooperative efforts in planning, research and monitoring, sharing of equipment and personnel, enforcement efforts, and educational campaigns.
- **Enhanced Regional Coordination** – The establishment or enhancement of regional MPA coordination forums via the national system offers an opportunity for managing entities and stakeholders to look beyond their individual jurisdictions, mandates, and interests, and consider regional and/or ecosystem-based approaches to MPA planning.
- **Enhanced International Coordination** – The national system will facilitate the identification of opportunities to improve linkages with, and provide technical assistance to, international marine protected area programs, to enhance cooperative conservation across international boundaries.

## **Enhanced Coordination and Strategic Direction**

- **Shared National System Conservation Objectives** – The national system will focus on specified priority objectives (see Section III (B)). By providing a focus for national and regional conservation efforts, these shared objectives will help build consensus about priority conservation actions, and ultimately increase the effectiveness of the diverse

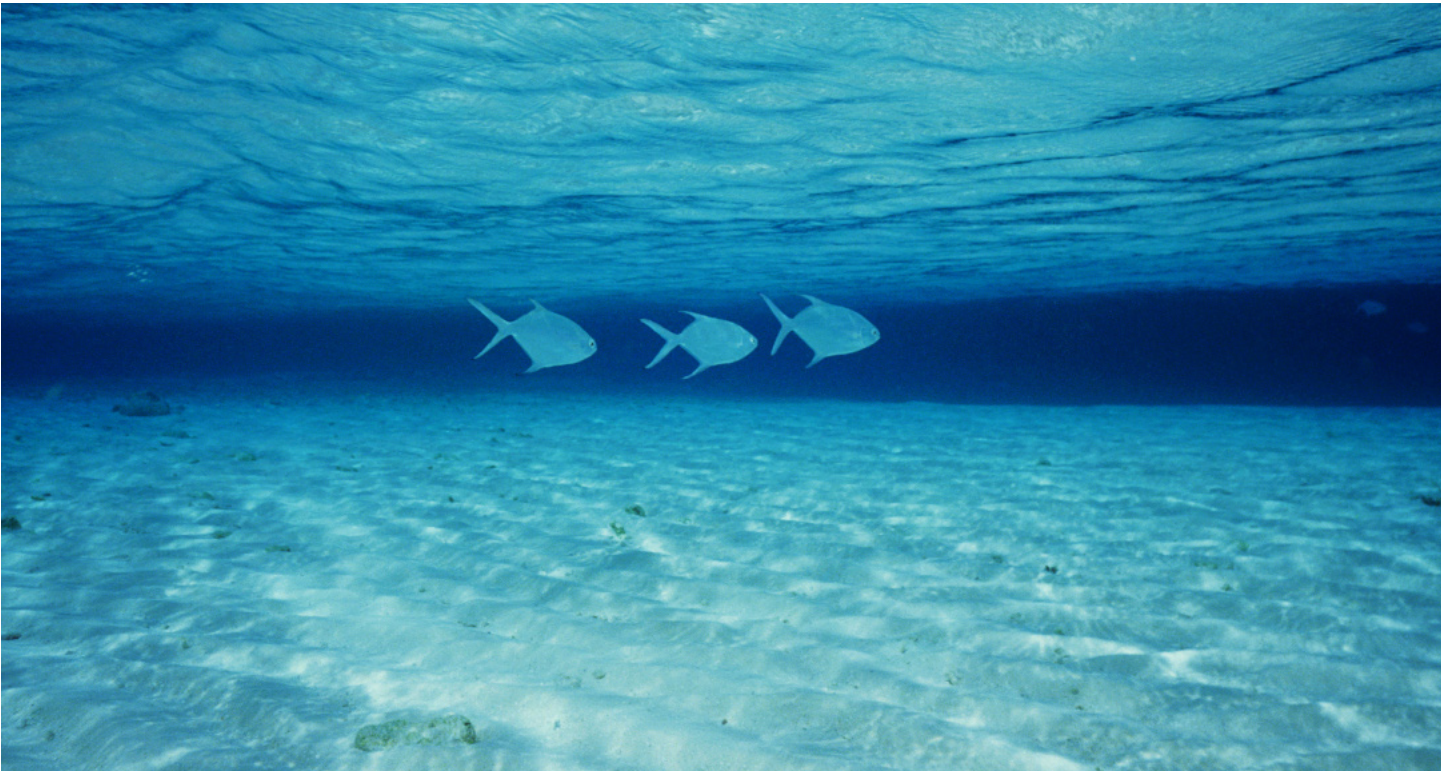


**Natural Heritage:** *The nation's biological communities, habitats, ecosystems, and processes and the ecological services, uses, and values they provide to present and future generations.*

**Cultural Heritage:** *The cultural resources that reflect the nation's maritime history and traditional cultural connections to the sea, as well as the uses and values they provide to present and future generations.*

**Sustainable Production:** *The nation's renewable living resources and their habitats (including, but not limited to, spawning, mating, and nursery grounds, and areas established to minimize incidental bycatch of species) and the social, cultural, and economic values and services they provide to present and future generations.*





# III. DEFINING THE NATIONAL SYSTEM OF MPAS

## A. NATIONAL SYSTEM PURPOSE

The purpose of the national system is to support the effective stewardship, conservation, restoration, sustainable use, and public understanding and appreciation of the nation's significant natural and cultural marine heritage and sustainable production marine resources, with due consideration of the interests of and implications for all who use, benefit from, and care about our marine environment.

## B. NATIONAL SYSTEM GOALS AND PRIORITY CONSERVATION OBJECTIVES

The national system's goals and objectives are designed to address the requirements of the Order to develop a comprehensive National System of MPAs representing



diverse United States marine ecosystems and the nation's natural and cultural resources. These goals, which are all of equal importance, have been designed with input and recommendations of the MPA FAC and other stakeholders to meet the purpose of the national system relative to the conservation of the nation's natural heritage, cultural heritage, and sustainable production marine resources (Table 1).

These goals and associated priority conservation objectives are intended to guide the development of the comprehensive national system, including identification of both existing MPAs to be included and conservation gaps which might be addressed through the establishment of MPAs. The national system as a whole will work collectively to achieve these goals and objectives. It is not expected that any individual MPA, MPA program, or system should address all goals or objectives. Measuring progress toward the attainment of these goals is addressed in Section V(C).

### **Prioritization of Conservation Objectives**

Given the magnitude of the task of building a comprehensive national system, the MPA Center will follow a gradual implementation process based on the iterative achievement of the prioritized conservation objectives as outlined in the table below. In this way, building the national system will begin with a focus on a subset of the highest-priority (near-term) objectives for each goal and as completed will move on to the next highest-priority conservation objectives for each goal.

The conservation objectives listed below were prioritized by the MPA FAC and the MPA Center for near-term, mid-term, and long-term implementation based on:

- the availability of existing scientific or other data necessary to achieve the objective;
- the importance of the objective, i.e., its relative urgency and significance as compared to the other objectives; and
- the effort necessary to achieve the objective, in

this case the ability to complete the nomination of existing areas and the identification of conservation gaps relative to the objective(s).

Achievement or completion of each conservation objective will include the following activities:

1. identification of existing MPAs that contribute to that objective and nomination of those MPAs by managing entities to the national system, and
2. identification of associated conservation gaps in the national system.

Priority conservation objectives should be considered together and at the regional scale, recognizing that implementation of the priority conservation objectives may not occur simultaneously and that conservation gaps in some areas may be addressed by MPAs, some other management tool, or a combination of tools, as appropriate. Specific processes for each of these activities are described in later sections of this document. Nonetheless, in practical terms, it is unlikely that all objectives within the same timeframe designation (e.g., near-term) will be able to be addressed simultaneously due to varying complexity of implementation and available staffing and funding resources.

To ensure that partners and stakeholders are kept informed of the status of building the national system, the MPA Center will publish, on an as-needed and sequential basis, "priorities announcements" that list the specific subsets of the near-term, mid-term, and long-term national system conservation objectives for each goal as targets for building the national system.

### **C. NATIONAL SYSTEM DESIGN AND IMPLEMENTATION PRINCIPLES**

The following principles are intended to guide the decisions and actions of managing entities and stakeholders in building and implementing an effective national system. These principles have been adapted from recommendations of the MPA FAC and the World

**Table 1. National System Goals and Priority Conservation Objectives**

<b>Goal 1: For Natural Heritage Marine Resources</b> – Advance comprehensive conservation and management of the nation’s biological communities, habitats, ecosystems, and processes and the ecological services, uses, and values they provide to present and future generations through ecosystem-based MPA approaches.	
<b>Priority Conservation Objectives for Goal 1 – Conserve and manage:</b>	
Key reproduction areas and nursery grounds	<b>Near Term</b>
Key biogenic habitats	
Areas of high species and/or habitat diversity	
Ecologically important geological features and enduring/recurring oceanographic features	
Critical habitat of threatened and endangered species	
Unique or rare species, habitats, and associated communities	<b>Mid Term</b>
Key areas for migratory species	
Linked areas important to life histories	<b>Long Term</b>
Key areas that provide compatible opportunities for education and research	

<b>Goal 2: For Cultural Heritage Marine Resources</b> – Advance comprehensive conservation and management of cultural resources that reflect the nation’s maritime history and traditional cultural connections to the sea, as well as the uses and values they provide to present and future generations through ecosystem-based MPA approaches.	
<b>Priority Conservation Objectives for Goal 2 – Conserve and manage:</b>	
Key cultural and historic resources listed on the National Register of Historic Places (NRHP)	<b>Near Term</b>
Key cultural and historic resources determined eligible for the NRHP or listed on a State Register	
Key cultural sites that are paramount to a culture’s identity and/or survival	
Key cultural and historic sites that may be threatened	<b>Mid Term</b>
Key cultural and historic sites that can be utilized for heritage tourism	
Key cultural and historic sites that are underrepresented	<b>Long Term</b>

<b>Goal 3: For Sustainable Production Marine Resources</b> – Advance comprehensive conservation and management of the nation’s renewable living resources and their habitats (including, but not limited to, spawning, mating, and nursery grounds and areas established to minimize bycatch of species) and the social, cultural, and economic values and services they provide to present and future generations through ecosystem-based MPA approaches.	
<b>Priority Conservation Objectives for Goal 3 – Conserve and manage:</b>	
Key reproduction areas, including larval sources and nursery grounds	<b>Near Term</b>
Key areas that sustain or restore high-priority fishing grounds	
Key areas for maintaining natural age/sex structure of important harvestable species	<b>Mid Term</b>
Key foraging grounds	
Key areas that mitigate the impacts of bycatch	
Key areas that provide compatible opportunities for education and research	<b>Long Term</b>



Commission on Protected Areas/International Union for Conservation of Nature (WCPA/IUCN) report, “Establishing networks of marine protected areas: A guide for developing national and regional capacity for building MPA networks” (WCPA/IUCN, 2007).

## National System Design Principles

Design principles will be used to guide the development of the national system, including the identification of priority conservation gaps in the national system (Section IV (D)) and regional MPA planning (Section V (A) (2)).

- **Prioritized resource conservation targets** – Focus first on conservation objectives that are of highest priority based on significance and urgency, availability of existing scientific and other data, and ability of the managing entity(ies) to act on objectives in the near-term.
- **Representativeness** –
  - *Geographically representative* – represents the range of geographic regions of the nation.
  - *Ecologically representative* – represents the range of marine and coastal biological diversity (from genes to species to habitats to ecosystems) and associated physical environments within the region or nation.
  - *Culturally and/or historically representative* – represents the range of cultural and/or historic resources and values of a particular ecosystem or region or the nation.
  - *Levels of government* – includes areas managed by federal, state, tribal, and local governments and communities.
- **Replication** – Includes multiple sites to ensure continued representation in the face of harmful impacts.
- **Precautionary design** – Decisions are based on the best information currently available

from natural science, social science, customary and local knowledge, and other sources. Where information is limited, decisions should reflect a precautionary approach.

- **Resilience** – Designed to maintain ecosystems’ natural states and to absorb shocks, particularly in the face of large-scale and long-term changes (such as climate change).
- **Viability** – Inclusion of self-sustaining, geographically dispersed component sites of sufficient extent to ensure population persistence through natural cycles of variation.
- **Connectivity** – Maximize and enhance the linkages among individual MPAs, groups of MPAs within a given eco-region, or MPA networks in the same and/or different regions.

## National System Planning and Implementation Principles

Planning and implementation principles that will guide national system efforts are discussed further under Section V, “Implementing the National System,” including regional coordination and MPA planning.

- **Cooperation and coordination** – Fosters cooperation and coordination among federal, state, tribal, local, and other management entities to reduce administrative costs, promote efficiency, and effectively utilize existing management infrastructure.
- **National scope, ecosystem and regional scale** – Embraces regional and ecosystem approaches to planning, participation, and implementation. Provides a mechanism for coordinating across regions, nationally, and where appropriate, internationally.
- **Adaptive management** – Employs a systematic process for continually improving national system management policies and practices by learning from the outcomes of operational programs.



- **Monitoring and assessment** – Promotes sound monitoring and evaluation at the site and system levels to assess management effectiveness, relying on established evaluation processes and methodologies, where possible.
- **Compliance and enforcement** – Promotes effective compliance with and enforcement of MPA regulations through design recommendations for MPAs and networks, capacity building, public education, and other mechanisms.
- **Balanced stakeholder involvement** – Provides meaningful opportunities for input from and participation by the nation’s MPA stakeholders, including the general public.
- **Active outreach and education** – Raises awareness and understanding of MPAs and stewardship of marine resources.
- **On-site and off-site influences and impacts** – Recognizes and seeks appropriate mechanisms to address both on-site and off-site influences, including impacts to coastal and marine resources from land-based activities.
- **Respecting local and indigenous values** – Considers and addresses local values, including those of indigenous cultures.
- **Appropriate access and compatible uses** – Provides opportunities for appropriate access to and/or compatible use of marine resources consistent with conservation goals and objectives.

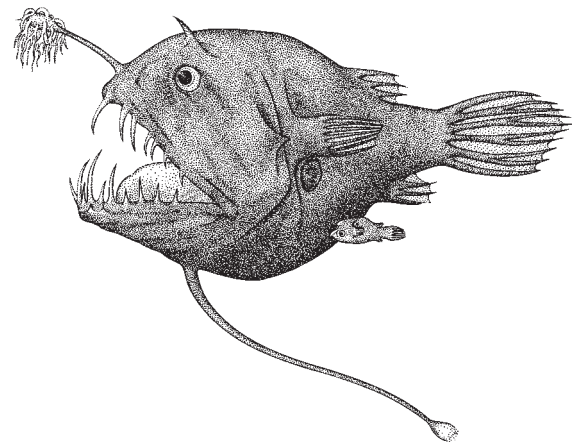
## D. MPA ELIGIBILITY CRITERIA

To be eligible for nomination to the national system, existing MPAs must meet three (four for cultural sites) criteria, shown in Figure 2 and described in more detail below:

1. Meet the definitional criteria of an MPA, including each of its key terms (see definitions in Table 2) – area, marine environment, reserved, lasting, and protection.

2. Have a management plan.
3. Support at least one priority goal and conservation objective of the national system.
4. Cultural heritage MPAs also must conform to criteria for including sites on the National Register of Historic Places.

Additional sites not currently meeting the management plan criterion can be evaluated for eligibility to be nominated to the system on a case-by-case basis based on their ability to fill gaps in national system coverage of the priority conservation objectives and design principles described in Sections III (B) and (C), respectively. To the extent practicable, the MPA Center intends to assist otherwise qualified sites that do not meet the management plan criterion to develop or strengthen their management plans.



### (i) Definition of MPA and its Key Terms

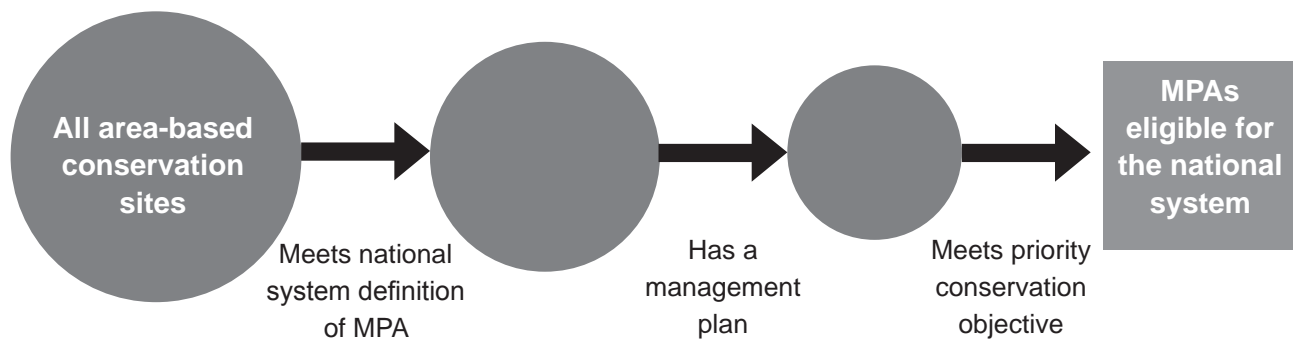
With the goal of standardizing the term “marine protected area” for the purposes of the national system, the Order defines an “MPA” as “[a]ny **area** of the **marine environment** that has been **reserved** by Federal, State, territorial, tribal or local laws or regulations to provide **lasting protection** for part or all of the natural and cultural resources therein.”

Without further clarification, the key terms of “area,” “marine environment,” “reserved,” “lasting,” and “protection” found in the MPA definition are subject to a range of interpretations and lead to an uncertain scope for the national system. The





**Figure 2: Eligibility Criteria for the National System**



definitions of key terms for “MPA” listed in Table 2 were guided by recommendations from stakeholders, including the MPA FAC, the analysis of existing place-based conservation efforts, and *Federal Register* comment processes for the Draft and Revised Draft Frameworks.

### **(ii) Management Plan Criteria**

To be eligible for nomination to the national system, an MPA must have a management plan that:

Has been developed at one of the following scales:

- a site-specific MPA management plan,
- part of a larger MPA programmatic management plan,
- component of a broader, non-MPA programmatic management plan (e.g., fishery management plan or species recovery plan), or
- a verbal or written community agreement.<sup>5</sup>

Includes both of the following components:

- specified conservation goals, and
- a process or requirement for monitoring and evaluation of goals.

### **(iii) Priority Goals and Objectives of the National System**

An MPA’s conservation purpose must specifically contribute to at least one of the priority goals and objectives published by the MPA Center as current conservation priorities, as described in Section III (B) above.

### **(iv) National Register of Historic Places Criteria**

Cultural resources in the national system of MPAs can include submerged archeological resources, cultural landscapes, and structures as well as ethnographic resources with tribal or traditional cultural meaning, value, and use. Given the cultural resource management community’s widespread acknowledgement of the standards developed by the National Park Service for inclusion of a cultural resource in the National Register of Historical Places (NRHP), the national system will integrate core elements of those standards into its criteria for MPAs with cultural marine resources. As such, the cultural marine resources within those MPAs must be historic and defined as at least 50 years of age, unless otherwise determined to be unique to the nation’s maritime history or traditional connections to the sea as defined by the NRHP. In addition, the resources must meet the following NRHP evaluation criteria:

<sup>5</sup> Given the unique nature of community agreements, whether verbal or written, the requirement for these management agreements to include conservation goals and monitoring and evaluation components may be met through traditional or science-based approaches. In some Pacific Island cultures, for example, management agreements may be part of local oral tradition, and are not written, but would still be considered as meeting this criterion.

**Table 2. Definition of Key Terms for the Purposes of the National System**

Key Term	Definition
<b>Area</b>	<p>Must have legally defined geographical boundaries, and may be of any size, except that the site must be a subset of the United States federal, state, local, or tribal marine environment in which it is located. Application of this criterion would exclude, for example, generic broad-based resource management authorities without specific locations and areas whose boundaries change over time based on species presence. The area must be one over which the United States has jurisdiction, consistent with international law.</p>
<b>Marine environment</b>	<p>Must be: (a) ocean or coastal waters (note: coastal waters may include intertidal areas, bays or estuaries); (b) an area of the Great Lakes or their connecting waters; (c) an area of submerged lands under ocean or coastal waters or the Great Lakes or their connecting waters; or (d) a combination of the above. The term “intertidal” is understood to mean the shore zone between the mean low water and mean high water marks. An MPA may be a marine component part of a larger site that includes uplands; however, the terrestrial portion is not considered an MPA. For mapping purposes, an MPA may show an associated terrestrial protected area.</p> <p>For purposes of the national system, NOAA and DOI intend to use the following definition for the term “estuary”: “part of a river or stream or other body of water having unimpaired connection with the open sea, where the sea water is measurably diluted with fresh water derived from land drainage, and extending upstream to where ocean-derived salts measure less than 0.5 parts per thousand during the period of average annual low flow.” Application of this criterion would exclude, for example, strictly freshwater sites outside the Great Lakes region that contain marine species at certain seasons or life history stages unless that site is a component of a larger, multi-unit MPA.</p> <p>Upon request, the agencies will work with individual federal, state, and tribal MPAs and programs to examine unique conditions that may affect applicability of the term “estuary” or “coastal waters” for sites that have national or regional significance or representativeness.</p> <p>Estuarine-like sites on tributaries of the Great Lakes will be considered for inclusion if they are located within the eight-digit U.S. Geological Survey cataloging unit adjacent to a Great Lake or its connecting waters.</p>
<b>Reserved</b>	<p>Must be established by and currently subject to federal, state, local, or tribal law or regulation. Application of this criterion would exclude, for example, privately created or maintained marine sites.</p>



<p><b>Lasting</b></p>	<p>For natural heritage and cultural heritage MPAs, the site’s authority must clearly state its intent to provide permanent protection. This definition recognizes that subsequent to establishment, MPA designation and level of protection may change for various reasons, including natural disasters that may destroy or alter resources or changes in societal values. Should any of these changes occur, the status of the MPA relative to the national system could be re-evaluated.</p> <p>Sites and/or protections that must have a specific legislative or other administrative action to be decommissioned shall be considered to have been established with the intent to provide permanent protection. This would include, for example, sites that have a requirement for periodic renewal contingent on evaluation of effectiveness, with no specified expiration date.</p> <p>For sustainable production MPAs, the site must be established with the intent at the time of designation to provide, at a minimum, the duration of protection necessary to achieve the mandated long-term sustainable production objectives for which the site was established.</p> <p>For all MPAs, the site must provide the same level and type of protection at a fixed location and fixed and regular period of any duration during a year.</p>
<p><b>Protection</b></p>	<p>Must have existing laws or regulations that are designed and applied to afford the site with increased protection for part or all of the natural and submerged cultural resources therein for the purpose of maintaining or enhancing the lasting conservation of these resources, beyond any general protections that apply outside the site.</p> <p>Application of this criterion would exclude restricted areas that are established for purposes other than conservation. The term would not include, for example, areas closed for navigational safety, areas closed to safeguard modern human-made structures (e.g., submarine cable no-anchor zones), polluted shellfish-bed closure areas, areas closed to avoid fishing gear conflicts, and areas subject to area-based regulations that are established solely to limit fisheries by quota management or to facilitate enforcement.</p>

“The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- b. That are associated with the lives of significant persons in our past; or
- c. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d. That have yielded or may be likely to yield, information important in history or prehistory.”

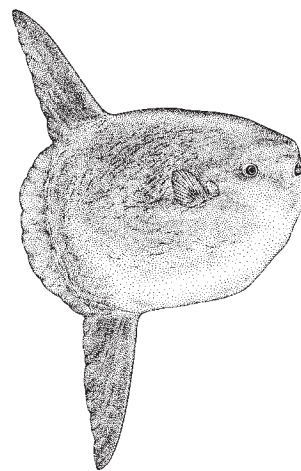
## E. MPA CATEGORIES

The set of national system MPA categories listed below in Table 3 are intended to provide a limited set of user-friendly terms for communicating generally about the purpose of and level of protection for MPAs that become a part of the national system.<sup>6</sup> In addition, these categories will be useful for:

- partitioning the national system into manageably sized groups of comparable sites to ease identification of shared technical or other assistance;
- grouping sites based on comparable conservation objectives and levels of protection to facilitate identification of gaps in conservation; and

- providing a logical framework for organizing and monitoring how sites added to the national system contribute to the system’s conservation objectives.

The MPA Center will work with the respective managing entities to determine the most appropriate category for the MPAs as they become a part of the national system. This categorization will not in any way supersede the designated name or title of the MPA, as established by law or other independent authorities.



<sup>6</sup> A more detailed categorization scheme useful for more in-depth analysis is provided at <http://www.mpa.gov>.



**Table 3. National System MPA Categories**

National System Purpose	MPA Category	Protection and Use Sub-category*	Management Goal(s)
Conserve Marine Heritage	Marine Natural Heritage Areas	Natural Heritage Conservation Areas	Conserve and manage the nation’s biological communities, habitats, ecosystems, and processes and the ecological services, uses, and values they provide to present and future generations through ecosystem-based MPA approaches.
		Natural Heritage Reserve Areas	Strongly protect the nation’s biological communities, habitats, ecosystems, and processes and the ecological services, uses, and values they provide to present and future generations through ecosystem-based MPA approaches.
	Marine Cultural Heritage Areas	Cultural Heritage Conservation Areas	Conserve and manage cultural resources that reflect the nation's maritime history and traditional cultural connections to the sea and the uses and values they provide to present and future generations through ecosystem-based MPA approaches.
		Cultural Heritage Reserve Areas	Strongly protect cultural resources that reflect the nation's maritime history and traditional cultural connections to the sea and the uses and values they provide to present and future generations through ecosystem-based MPA approaches.
	Marine Natural and Cultural Heritage Areas	Natural and Cultural Heritage Conservation Areas	Management goals of marine natural heritage conservation areas and of marine cultural heritage conservation areas.
		Natural and Cultural Heritage Reserve Areas	Management goals of marine natural heritage reserve areas and of marine cultural reserve areas.
Sustain Marine Production	Marine Sustainable Production Areas	Sustainable Production Conservation Areas	Advance comprehensive conservation and management of the nation’s renewable living resources and their habitats (including, but not limited to, spawning, mating, and nursery grounds and areas established to minimize bycatch of species) and the social, cultural, and economic values and services they provide to present and future generations through ecosystem-based MPA approaches.
		Sustainable Production Reserve Areas	Strongly protect the nation’s renewable living resources and their habitats (including, but not limited to, spawning, mating, and nursery grounds and areas established to minimize bycatch of species) and the social, cultural, and economic values and services they provide to present and future generations through ecosystem-based MPA approaches.



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**\*Conservation Areas:** Multiple uses allowed; however, uses and activities may be restricted or zoned, and access limited, as necessary to meet site management goals.

**\*Reserve Areas:** No extractive uses allowed, except permitted scientific and educational uses; destructive or disruptive activities limited; other uses and activities may be restricted or zoned, and access limited, as necessary to meet site management goals.



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FRAMEWORK FOR THE NATIONAL SYSTEM OF MARINE PROTECTED AREAS OF THE UNITED STATES OF AMERICA



# IV. BUILDING THE NATIONAL SYSTEM OF MPAS

## A. SUMMARY AND SEQUENCE

Building the national system will involve two major sets of activities:

1. the identification, nomination, and inclusion of existing MPAs in the national system and on the official List of National System MPAs, and
2. the identification of national system conservation gaps in protection of important marine areas that meet the national system's conservation objectives and design criteria, outlined in Sections III (B) and (D) above, with facilitation of subsequent development by the relevant establishing agencies of new MPAs and/or enhancement of existing MPAs to fill those gaps, where appropriate, outlined in Section IV (D) below.



Given the magnitude of the task of developing the national system, the MPA Center will follow an iterative process to build the system gradually over time. The pace of this process will be determined by the availability of resources to carry out the process. The sequence of the iterative process for the above two major sets of national system building activities is as follows, and shown in Figure 3 (a more thorough description of each activity can be found in subsequent subsections):

- As described in Section III (B), the MPA Center will periodically identify near-term priority conservation objectives to guide the phased development of the national system.
- As described in Section IV (B), the MPA Center will lead a nation-wide nomination process for eligible existing MPAs that contribute to the targeted conservation objectives, and include those MPAs in the national system that are successfully nominated and accepted.
- As described in Section IV (D), the MPA Center will lead a collaborative region-by-region process to identify conservation gaps relative to the targeted conservation objectives and national system design criteria. Conservation gaps will be used to inform the development of recommendations for new MPAs through regional MPA planning described in Section V (A), and can also be used by managing entities and stakeholders to guide their efforts to establish new MPAs. It is expected that any management actions taken to fill these gaps will consider different management alternatives and the impacts of those alternatives on human uses of the areas.

- Upon completion of the nation-wide nomination process and region-by-region conservation gap identification for the targeted conservation objectives, or at such other time that resources and capabilities allow, the MPA Center will publish the next iterative set of conservation objectives to serve as targets for building the national system.

## B. NOMINATION PROCESS FOR EXISTING MPAS

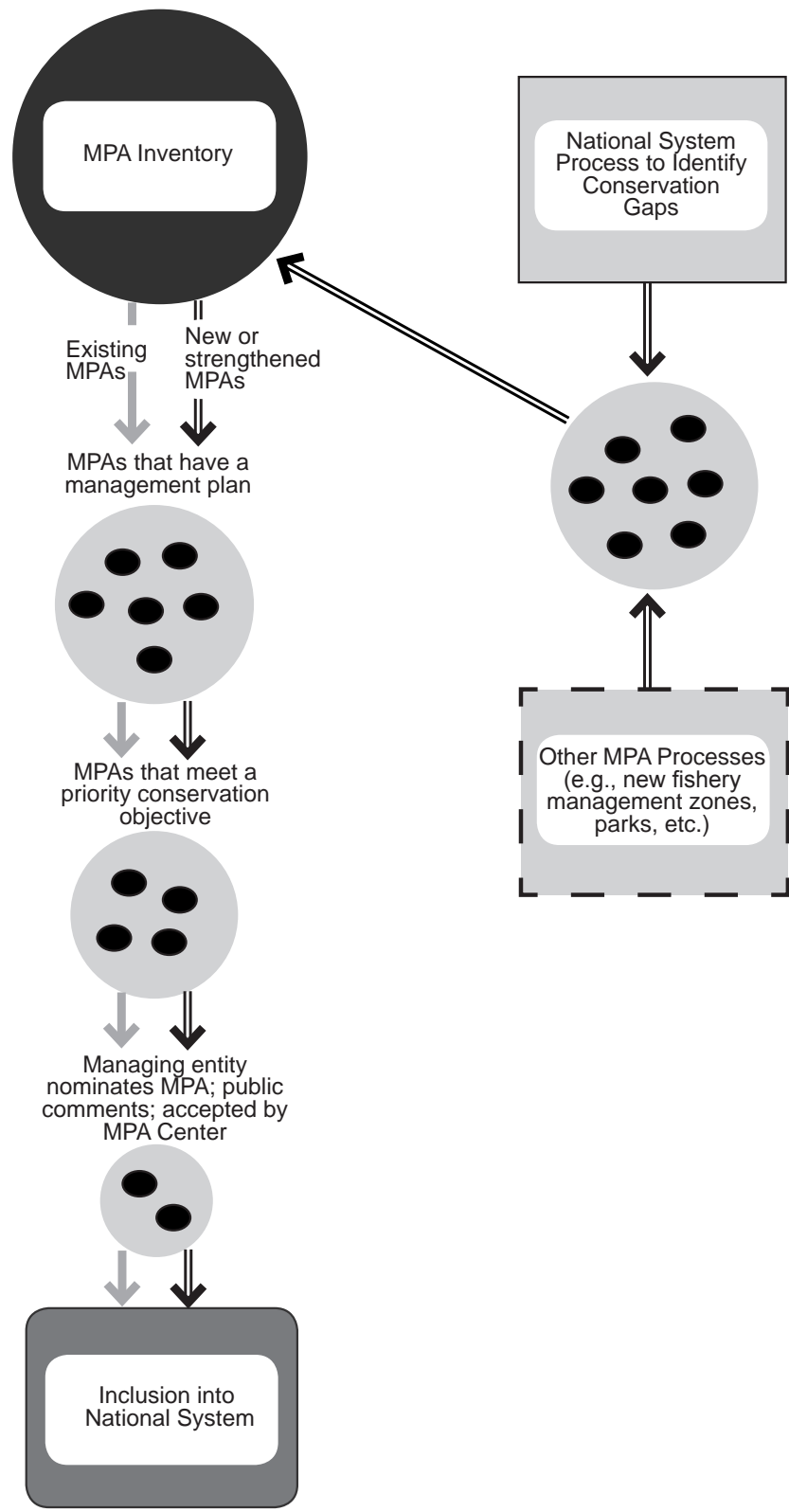
The process for nominating and including eligible MPAs in the national system is as follows. Nominations of existing MPAs originate with the managing entity(ies), with the MPA Center providing background information and analysis (see Figure 4 for summary):

1. The MPA Center will review sites in the United States Marine Protected Areas Inventory and identify the set of sites that meet the three (or four, for cultural sites) MPA eligibility criteria outlined in Section III (D). Information on whether sites meet criterion 3, supporting at least one priority goal and conservation objective of the national system, will be provided by the managing entity. The MPA Inventory (see <http://www.mpa.gov>) is a refinement of the earlier Marine Managed Areas Inventory, which was a broader collection of place-based management areas in U.S. waters.
2. The MPA Center will send the managing entity or entities<sup>7</sup> for those sites found to be potentially eligible a letter of invitation to nominate the site, including the rationale for eligibility.

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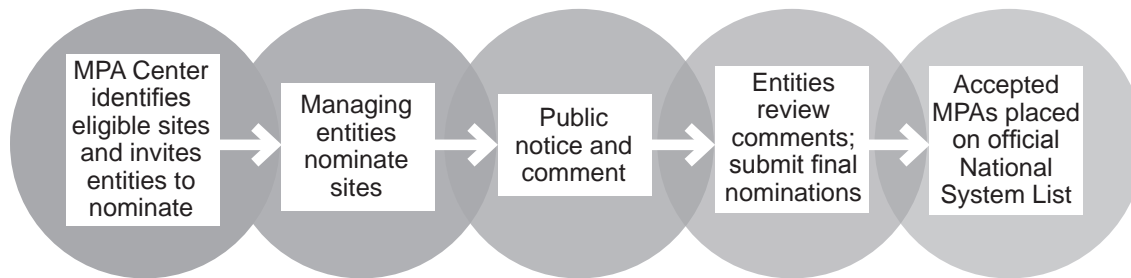
<sup>7</sup> In most cases, management authority for an MPA lies with one agency or program; however, in certain instances, such as the federal/state National Estuarine Research Reserve System and state/tribe co-management arrangements, authority is formally shared or split among two or more entities. Similarly, Regional Fishery Management Councils have a unique role with the National Marine Fisheries Service in the process for establishing federal fishery management zones and federal fisheries habitat conservation zones. Where explicit agreements and/or legislation govern shared management authority or other formal relationships, the multiple managing entities will be consulted throughout the nomination process. Regional Fishery Management Councils will be a key partner with NOAA in nominating sites to the national system. Through a transparent process, NOAA will consult with its Council partners and fully consider the views and interests of the Councils prior to nominating a site to the national system. These NOAA-Council consultations would take place at the regional-level at key stages of the nominating process, and DOC/NOAA would make final decisions on nominations.

**Figure 3: Building the National System of MPAs**





**Figure 4: Summary of Nomination Process**



3. The managing entity or entities will be asked to consider and nominate some or all of the identified sites for inclusion in the national system, including additional information required to evaluate site eligibility relative to meeting priority conservation objectives.

The managing entity or entities may also provide a brief justification and nomination for: a) unsolicited sites believed to meet the requirements for entry into the national system, or b) other sites that do not appear to currently meet the management plan eligibility criterion but are deemed to be a priority for inclusion based on their ability to fill gaps in national system coverage of the priority conservation objectives and design principles.

4. The MPA Center will review the set of nominated sites to ensure that nominations are sufficiently justified.
5. The MPA Center will notify the public, via the *Federal Register* and other means, of the set of sites nominated for inclusion in the national system and provide the opportunity to comment on the eligibility of nominated sites (or sites that have not been nominated) relative to the eligibility criteria and any additional justification. The MPA Center will work with the managing entities to ensure adequate public involvement, including public meetings, as appropriate.

6. The MPA Center will receive, evaluate, and forward public comment to the relevant managing entity or entities, which will reaffirm or withdraw (in writing to the MPA Center) the nomination based on public comment received and any other factors deemed relevant.

7. The MPA Center will review the final determination for each nomination, consult as necessary with the managing entity or entities should there be any discrepancies, and accept mutually agreed upon MPAs into the national system.

8. MPAs that are accepted into the national system will be listed in the official List of National System MPAs (see below) comprising the national system and made available to the public via the *Federal Register*, the website <http://www.mpa.gov>, and other means.

Where non-governmental stakeholders, including the general public, may have an interest in the nomination of certain MPAs, they are encouraged to contact the respective managing entity or entities to share their perspectives about nomination in addition to participating in the public comment process described in number 5 in this section. Similarly, where government agencies have an interest in the nomination of eligible MPAs for which they do not have management authority, they are encouraged to consult with the respective managing entity or entities.

## C. THE OFFICIAL LIST OF NATIONAL SYSTEM MPAS

### 1. Adding MPAs to the List and National System

Pursuant to Section 4(d) of the Order, and to ensure that managing entities, organizations, and the general public are aware of the MPAs that make up the national system, the MPA Center will maintain a List of National System MPAs. The List of National System MPAs will be the official inventory of all MPAs that have been formally included in and recognized as part of the National System of MPAs under Section IV (B), above. In addition, MPAs on the List of National System MPAs are those sites that are the subject of Section 5 of the Order, "Agency Responsibilities," as described in Section V (D) of this document. This authority does not apply to MPAs not on the List of National System MPAs.

#### The List will include the following information for each national system MPA:

- a. name,
- b. location,
- c. national system MPA category,
- d. priority conservation objective(s) contributed to,
- e. boundaries,
- f. key resources protected,
- g. authorizing legislation,
- h. levels and types of protection,
- i. managing authority or program,
- j. name of point of contact, and
- k. relevant contact information.

The MPA Center will regularly publish an updated, summary version of the List of National System MPAs in the *Federal Register*, and will make it available to the public at <http://www.mpa.gov> or by request.

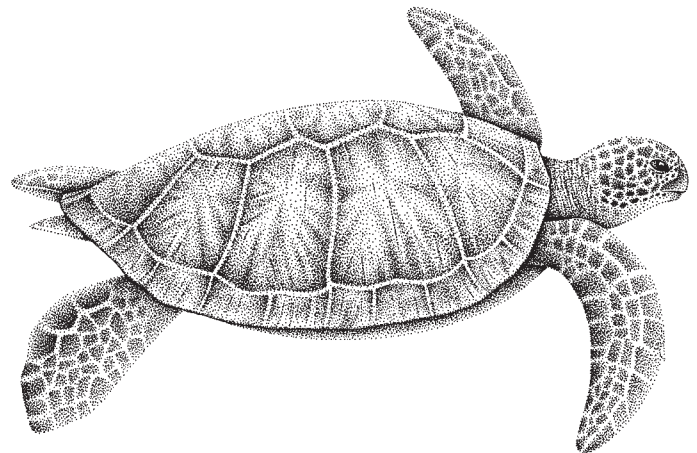
### 2. Modifying MPAs on the List and in the National System

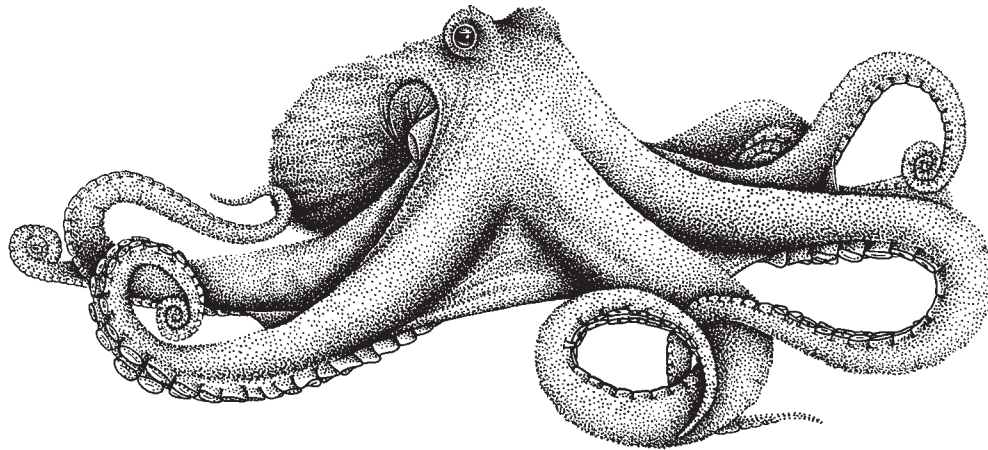
Participation in the national system does not constrain the management entity from changing its management of the MPA. The management entity would still have the ability, within its own authorities and required processes, to add or reduce levels of protection, change the size of the MPA, or make other changes. Management entities would be asked to provide all significant updates to the MPA Center, but would not be required to re-nominate the site. If the MPA no longer meets the national system MPA eligibility criteria, it would be removed from the system (see Section IV (C) 3).

### 3. Removing MPAs from the List and National System

MPA sites or systems that have been included on the List of National System MPAs may be removed at any time by written request of the managing entity(ies) or the MPA Center for reasons including:

- the MPA ceases to exist (e.g., the legal authority or regulations expire);





- the MPA no longer meets the national system MPA eligibility criteria; or
- the managing authority requests removal.

All requests from managing entities or actions by the MPA Center to remove an MPA from the national system must be made in writing, will become part of the public record, and will be published at <http://www.mpa.gov> and in the *Federal Register* for comment. Upon receipt by the MPA Center of a request to remove an MPA from the national system, the managing entity(ies) and the MPA Center will enter into a dialogue on the proposal. Any comments received from the public relating to the removal of an MPA from the national system will be forwarded to the managing entity(ies) for its consideration in making its final determination to have the site removed from the national system. Upon completion of all obligations by the respective managing entity(ies), the MPA will be removed from the List of National System MPAs and all information referencing the site will be removed from national system materials and archived in the national system information on the website.

#### D. IDENTIFYING NATIONAL SYSTEM CONSERVATION GAPS

The nation's suite of existing MPAs contributes significantly to the building of a comprehensive and representative national system. The critical next step toward achieving the national system's conservation

objectives is the identification of conservation gaps: areas in the ocean and Great Lakes that meet priority conservation objectives of the national system but that are currently not adequately protected to ensure their long-term viability, as called for in Section 4 (a) of the Order. Conservation gaps identified herein can be used by existing federal, state, tribal, and local MPA managing entities and others to guide their future efforts to establish new or strengthen existing MPAs using their independent authorities and processes, or to address these gaps through other management tools. In addition, the gaps identified through this process will be used to facilitate regional planning and collaboration that may ensue as described in Section V (A).

This section outlines the process for identifying gaps in the national system. The process will be comprehensive, taking into account existing MPAs and other conservation measures currently in place. The gap analysis process will be implemented iteratively, relative to targeted specific national system conservation objectives, and on region-by-region bases as described below. Conservation gaps in the national system may exist in a number of forms and can be generally described as:

**Representation gaps:** where a particular habitat, ecosystem, or cultural resource type is either unrepresented or underrepresented in the national system.

**Ecological gaps:** where important species, habitats, ecosystems, or processes fundamental to the national system's goals are not adequately protected to ensure their lasting conservation and sustainable use.

**Management gaps:** where the management regimes (management objectives or governance types) of MPAs in the national system do not fully provide for lasting conservation or sustainable production of a particular species, habitat, cultural resource, or ecosystem.<sup>8</sup>

Efforts to identify conservation gaps will include the collection and analysis of the best available scientific information and analyses, including traditional ecological knowledge, to identify important marine areas on multiple scales, coupled with an analysis of existing levels of place-based protection in those areas. The resulting gaps in protection will be identified relative to fully achieving the national system conservation objectives and design principles outlined in Sections III (B) and (C), respectively.

Gap identification efforts will be focused at the regional scale, and will be collaborative, involving MPA-related and other entities at various levels of government, FMCs, and other organizations and institutions in synthesizing and analyzing existing scientific information, including traditional ecological knowledge, where available, and established conservation priorities. The effort to identify conservation gaps will include opportunities to review and comment on the process and its results by the public, the MPA FAC, relevant federal agencies, state and tribal governments, and other entities, including the National System Management Committee (Management Committee) described in Section V (B).

The MPA Center also will work with existing or incipient regional marine entities and initiatives to coordinate with their broad management efforts, as appropriate. Efforts to identify gaps will also consider and include relevant international participation and

linkages. The effort aims to provide government agencies with a program-neutral opportunity for collaborative assessment and planning, while ensuring that stakeholders are both informed and involved.

The MPA Center will work with diverse partners, as appropriate, through the following processes to identify gaps in fully achieving the national system's conservation objectives:

1. Publish, on an as-needed and sequential basis, subsets of the near-term, mid-term, and long-term national system conservation objectives listed in Section III (B) as iterative targets for conservation gap identification.
2. On a regional basis, aggregate, map, and describe relevant and readily available existing data and analyses about important species, habitats, cultural resources, and ecosystems that could contribute to the national system goals and priority conservation objectives.
3. Map and describe, by region, the location and management attributes of existing MPAs that contribute to achieving the targeted national system conservation objectives.
4. Integrate spatial data on ecosystems and place-based management to identify important areas where protection is either lacking or potentially inadequate to achieve national system goals and objectives.
5. Identify key stakeholders in the region and provide identified gaps and background information to the public for comment.
6. Seek input on identified gaps from federal agencies, states, and tribal leaders with management authority in the corresponding region.

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<sup>8</sup> Adapted from: Nigel Dudley and Jeffrey Parish (2006). *Closing the Gap. Creating Ecologically Representative Protected Area Systems: A Guide to Conducting the Gap Assessments of Protected Areas Systems for the Convention on Biological Diversity*. Secretariat of the Convention on Biological Diversity. Montreal, Technical Series no. 24, vi + 108 pages.



7. Seek input on identified gaps from the Management Committee.
8. Provide identified gaps, background information, and a summary of all public and Management Committee comments received to the MPA FAC for consideration and development of prioritized recommendations to DOC and DOI.
9. Upon consideration of all input and recommendations, the MPA Center will publish prioritized national system conservation gaps and corresponding descriptive information for use by managing entities and stakeholders to strengthen existing MPAs or add new MPAs where needed. Information about the conservation gaps identified will be maintained on the <http://www.mpa.gov> website. Gap analyses will be updated periodically as resources permit.

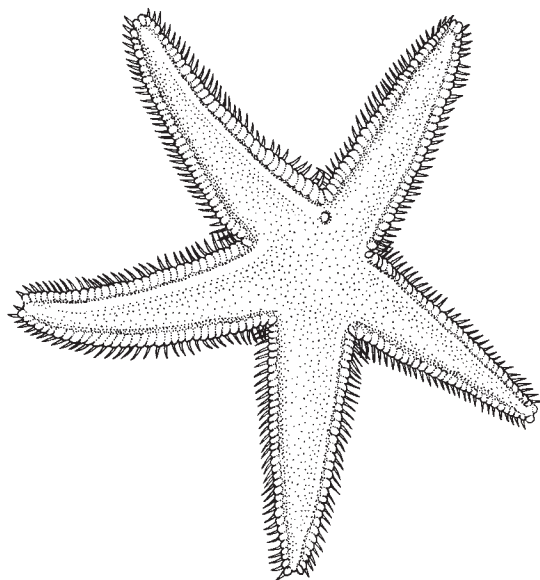
Finally, while the publication of these identified conservation gaps is a major step toward building a comprehensive national system, significant additional evaluation of these gaps and other information will likely be needed by agencies prior to any resulting establishment of new MPAs or changes to existing MPAs' governance. Specifically, managing entities will need to work with stakeholders under the auspices of appropriate MPA authorities to: (i) evaluate these gaps; (ii) incorporate data on human uses and impacts and related societal and economic considerations; and (iii) assess management priorities to make an informed decision about appropriate next steps in response to an identified conservation gap. These steps might include the establishment of a new MPA, changes to existing MPAs, additional research, or some other alternative. Establishment of new MPAs or changes to the governance of existing MPAs must follow relevant processes under established authorities.

The MPA Center can serve as a resource to assist managing entities and stakeholders with such analyses and regional planning processes, as

described in Section V (A). Similarly, identified gaps will be considered by the MPA Center and the Management Committee in prioritizing national system science and stewardship actions. The MPA Center also will report on actions taken by managing entities to address these gaps.

## E. ESTABLISHING NEW NATIONAL SYSTEM MPAS

The Framework lays out the processes for identifying conservation gaps in the national system (see Section IV (D)) and developing recommendations for new or enhanced MPAs through collaborative ecosystem-based MPA planning (see Section V (A) (2)). However, neither the Order nor the Framework provides authority to designate or establish new MPAs or alter protections afforded by existing MPAs. Section 4(e) of the Order states:





*The goal of the MPA Center shall be, in cooperation with the Department of the Interior, to develop a framework for a national system of MPAs, and to provide Federal, State, territorial, tribal, and local governments with the information, technologies, and strategies to support the system. This national system framework and the work of the MPA Center is intended to support, not interfere with, agencies' independent exercise of their own existing authorities.*

These national system processes are intended to offer a more collaborative, systematic and comprehensive approach to MPA planning than currently exists. Recommendations for new or enhanced MPAs that stem from these processes offer entities with MPA management authority valuable guidance for taking independent or cooperative action to establish and/or manage MPAs that meet program mandates while also enhancing regional and national conservation priorities. Moreover, such processes and recommendations offer stakeholders opportunities and information with which to meaningfully engage in MPA decision making efforts.

New MPAs that may eventually be established based on these national system recommendations would subsequently be considered for inclusion in the national system pursuant to the eligibility criteria and nomination process outlined above. Stakeholder participation in the designation process for new MPAs is unchanged by the national system and occurs as specified through the required public consultation processes associated with the authorized designation process.



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FRAMEWORK FOR THE NATIONAL SYSTEM OF MARINE PROTECTED AREAS OF THE UNITED STATES OF AMERICA



# V. IMPLEMENTING THE NATIONAL SYSTEM OF MPAS

Over time, as MPA sites, programs, and systems are added to the national system, efforts to implement the national system – both regionally and nationally – will be initiated. A major emphasis of the MPA Center will be to facilitate and support collaborative implementation efforts with participating MPA sites and programs, subject to available resources. The timing of the implementation elements, described below, may be sequential, simultaneous, or otherwise, depending on resources available and the priorities of national system partners. Significant additional resources will be needed to realize the full potential of each element. In addition, monetary and nonmonetary incentives would greatly enhance state, tribal, and local participation in the national system, thereby increasing its conservation impact. National system implementation components, guided by the national system’s design planning and implementation principles described in Section III (C), include:



- *Enhancing regional coordination and collaboration* – formalizing new and/or supporting existing regional mechanisms to provide for effective, efficient coordination and collaboration among participating MPA sites, systems, and programs.
  - *Improving MPA stewardship and effectiveness* – identifying and prioritizing shared needs for improvements in MPA science, management, and stewardship at regional and national levels and catalyzing partnerships and action to address identified priorities for existing MPAs.
  - *Regional MPA planning* – developing and applying the natural and social science information, decision making tools, and stakeholder engagement processes to evaluate collaboratively the conservation gaps identified in the national system and make recommendations about the need for new and/or enhanced MPAs.
- *National and international coordination* – establishing and implementing a National System Management Committee to serve to link across regions where resource conservation and MPA planning and management issues span regional boundaries and to identify and pursue international MPA linkages to the national system.
- *Evaluating national system effectiveness* – providing technical and scientific support for fostering sound monitoring and evaluation programs at the participating MPA site or system level, as well as development of a set of standards and protocols for assessing broader national system effectiveness.
- *Federal agency responsibilities to avoid harm* – providing guidance regarding Section 5 of the Order, which requires federal agencies to “avoid harm” to the natural and cultural resources protected by MPAs that become part of the national system.
- *Tracking and reporting* – maintaining the <http://www.mpa.gov> website and producing a biennial

State of the National System report and other mechanisms for communicating national system activities, progress, and plans.

## A. ENHANCING REGIONAL COORDINATION AND COLLABORATION

Within the national system, effective regional coordination and collaboration are critical for sharing information and experiences, identifying common priorities and collaborative solutions for enhancing the effectiveness of existing sites, and improving planning and decision making for new MPAs. In the same way, effective regional collaboration must also include making necessary linkages to other marine management initiatives and collaboration mechanisms. For example, the federal Seamless Network initiative, the developing U.S. Integrated Ocean Observing System, coordination with the Regional Fishery Management Councils and Inter-State Fishery Management Commissions, and ongoing or planned regional ocean or Great Lakes initiatives by state governors may offer opportunities for efficiently strengthening MPA collaboration, in addition to working with individual states.

The national system will use U.S. **large marine ecosystems** (LME) as the broadest framework for regional scientifically-based planning and collaboration, recognizing that certain of these regions do not efficiently or fully encompass the political regions of the United States that would be necessary for effective collaboration (Figure 5). For example, the three LMEs associated with the state and federal waters off Alaska can be combined for the purposes of regional MPA collaboration, as could the United States waters of the Caribbean and Gulf of Mexico. Nonetheless, these regions are intended to serve as the broadest framework for regional collaboration, recognizing that other established regions, whether biophysical (e.g., biogeographic regions) or political (e.g., FMC regions), may be nested within LMEs and may serve as more appropriate scales for MPA planning and collaboration. In addition, some issues, such as those pertaining to endangered and threatened species, may require regional collaboration across two or more LMEs.

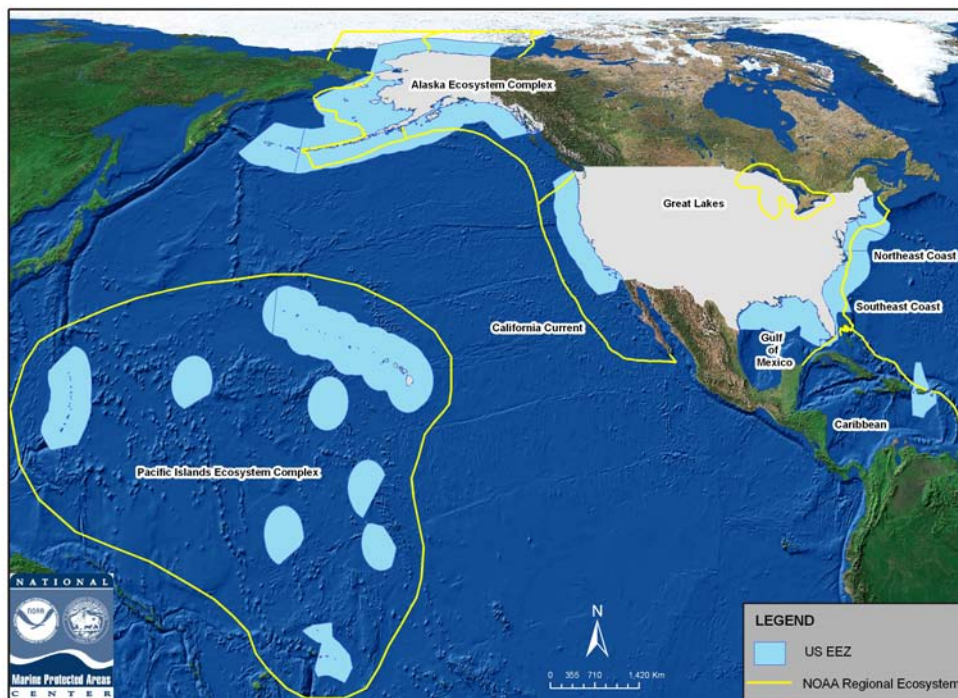


Figure 5. NOAA Regional Ecosystems of the United States

The national system's regional collaboration framework will be built at the broadest level around the following regions, each encompassing state and federal waters, as relevant:

- **Alaska:** Gulf of Alaska, East Bering Sea, and Arctic Seas
- **West Coast:** California, Oregon, and Washington
- **Great Lakes:** Minnesota, Wisconsin, Michigan, Illinois, Indiana, Ohio, Pennsylvania, and New York
- **Gulf of Mexico:** Texas, Louisiana, Mississippi, Alabama, and Florida
- **Caribbean:** U.S. Virgin Islands, Puerto Rico, and Navassa Island
- **Northeast:** Virginia, Maryland, Delaware, New Jersey, New York, Connecticut, Rhode Island, Massachusetts, New Hampshire, and Maine
- **Pacific Islands:** Hawai'i, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the Pacific Remote Insular Areas (Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Wake Island, and Palmyra Atoll)
- **Southeast:** Florida, Georgia, South Carolina, and North Carolina

A variety of approaches exist for enhancing regional MPA coordination and collaboration. The appropriate mechanism for any particular region depends in large part on its biophysical and political characteristics and





on the specific goals for which the coordination and collaboration are initiated. The MPA Center will work with all participating state, tribal, and federal MPA sites and programs and existing regional entities in each region to establish and/or formalize an appropriate regional MPA coordination and collaboration mechanism, such as a regional MPA working group, forum, or dialogue.

The MPA Center will consult with participating managing entities in the region to determine the most suitable type (e.g., informal, formal) of coordination and collaboration and the appropriate regional scale. This task includes identifying existing regional MPA and related marine coordination initiatives and determining efficient ways to complement, support or integrate with those efforts, while ensuring opportunities for all national system partners to be represented and for the public to participate.

The facilitation of formalized regional coordination and collaboration mechanisms for the national system is intended to provide a forum for MPA managing entities to work together in an open, transparent manner to:

- develop regional MPA effectiveness and stewardship strategies that identify and prioritize shared needs for improving the effectiveness of existing MPAs in the region (see Section V (A)(1));
- catalyze collaborative initiatives and projects to address identified science and stewardship needs;
- further evaluate identified national system conservation gaps, undertake collaborative, ecosystem-based MPA planning, solicit stakeholder input, and make specific recommendations about the need for the establishment of new MPAs (see Section V (A) (2));
- facilitate continued and new managerial collaboration among MPAs across regional, national, and international boundaries, to

promote consistent approaches to monitoring, enforcement, emergency response, threat abatement, and coordination with other countries and international organizations (such as through transboundary MPAs) and ensure compliance with international law;

- coordinate ecosystem and/or regional input to the national system and recommend annual and longer-term regional science and other priorities based on shared MPA needs across the region;
- develop informal and formal partnerships to achieve economies of scale. For instance, arrange for the sharing of technical and financial resources for monitoring, surveillance, enforcement, staff training, etc.; and
- develop and implement strategies for engaging and informing stakeholders about regional MPA planning, effectiveness, and stewardship activities.

## 1. Improving MPA Stewardship, Science, and Effectiveness

A significant purpose of the Order is to “strengthen the management, protection, and conservation of existing [MPAs]...” (Section 1 (a)). As such, a major emphasis of the national system is to provide support for the shared science, technical, education, and other priority stewardship needs of partner MPA programs to enhance the national system’s effectiveness. With this in mind, collaborative efforts should work to enhance the effectiveness of and provide benefits to existing efforts of MPA programs without creating additional responsibilities that detract from the important work of partners in meeting their existing programmatic authorities.

Formalizing regional coordination mechanisms via the national system offers a unique forum for collaboration to improve the effectiveness and stewardship of existing MPAs by identifying common needs across MPA programs. To this end, the MPA

Center will consult with participating federal, state, and tribal managing entities through formalized regional MPA coordination and collaboration forums to develop regional MPA Stewardship, Science, and Effectiveness Strategies (Strategies). These Strategies will identify, inventory, and prioritize shared science, education, research, management, and other needs for improving MPA stewardship, science, and effectiveness. Wherever possible, these Strategies will incorporate or build upon relevant priorities previously identified through other mechanisms to avoid duplicative efforts.

The development of Strategies is intended to provide an efficient mechanism for the MPA Center to work with participating MPA sites and programs to gather information that will serve as the basis for catalyzing collaborative actions to address shared priorities. The MPA Center will also aggregate the priorities identified in the regional Strategies into a national set of priorities and use these priorities to catalyze large-scale projects and initiatives.

The following are examples of the types of priority science and stewardship issues that may be identified and addressed through the development of regional Strategies and subsequent collaborative actions among MPA programs to improve MPA effectiveness:

- **Enhancing MPA management capacity**
  - management plan development and review;
  - managing visitor and user impacts;
  - enforcement and compliance practices;
  - best practices for meaningful stakeholder involvement; and
  - sustainable financing mechanisms.
- **Improving MPA science and research**
  - developing science-based tools to identify and measure regional, ecosystem, and site connectivity;

- building collaborative strategies for establishing biophysical, social, and economic baselines for MPAs and monitoring trends in these conditions; and
- examining the effects of invasive species on MPAs.
- **Promoting outreach and education**
  - developing educational programs;
  - improving awareness and understanding of the importance of marine resources and the role of MPAs in marine management; and
  - improving public stewardship of marine resources through volunteer programs and other efforts.
- **Improving the evaluation of MPA effectiveness**
  - training and technical assistance on developing relevant indicators and protocols for monitoring and evaluating management effectiveness for individual MPAs and networks of MPAs;
  - identifying consistent indicators for examining marine habitat and resource recovery and social and economic conditions associated with MPAs; and
  - synthesizing recovery trajectories for marine resources to aid managers, stakeholders, and the public in interpreting monitoring results and understanding habitat and resource restoration.

The Strategies will reflect shared needs, and will be implemented, subject to the availability of funds and other resources, through partnerships among MPA programs and others. Possible mechanisms to implement the Strategies could include:



- training and workshops;
  - direct technical assistance and tools;
  - contractual or grant funding;
  - best practices or technical publications;
  - sharing of knowledge and experience across MPA sites and programs;
  - clearinghouse for research on MPA issues;
  - targeted research;
  - facilitation of linkages with international MPA programs and activities; and
  - other mechanisms as identified.
- The characterization of marine natural resources (natural resources, habitats, ecosystems, ecological processes) and marine cultural resources in the region.
  - An assessment of human uses and their impacts, including the documentation and characterization of the patterns, intensity, and significance of human uses; existing governance frameworks; and assessments of conflicts, compatibilities, and potential impacts of human uses on marine ecosystems.
  - The development and use of decision tools to identify and recommend areas in need of additional or enhanced protection.
  - Facilitation of stakeholder outreach and engagement processes to ensure the public and other stakeholders are informed of planning activities and have an opportunity to provide input into decision making processes.
  - Development of recommendations for new or strengthened MPAs to meet regional and national priority conservation objectives and mechanisms and processes for relevant MPA authorities in establishing new MPAs or otherwise implementing recommended actions.

## 2. Regional MPA Planning

The establishment or enhancement of regional MPA coordination forums via the national system offers an opportunity for managing entities and stakeholders to look beyond their individual jurisdictions, mandates, programs, and interests and consider regional and/or ecosystem-based approaches to MPA planning.

The MPA Center will work with regional, national, and international partners, where appropriate, to develop and apply the natural and social science information, decision making tools, and stakeholder engagement processes to collaboratively evaluate conservation gaps identified in the national system and make recommendations about the need for new and/or enhanced MPAs.

Such an ecosystem-based MPA planning effort could include, but is not limited to, the following critical planning steps or components:

- An evaluation and synthesis of national system design principles and conservation gaps and other regional and/or programmatic marine conservation targets, in order to more comprehensively establish regional conservation objectives to guide ecosystem-based planning.

## B. NATIONAL AND INTERNATIONAL COORDINATION

### National Coordination

In addition to enhancing regional coordination among MPAs, a corresponding national level effort is needed. Such an effort will represent and promote the priorities and issues of the various ecosystems and regions that make up the nation, as well as look more broadly at important national and international trends, developments, priorities, and legal obligations. National coordination also will serve to link across regions where resource conservation issues and MPA planning and management span regional boundaries. As required by the Order, the MPA Center will

facilitate coordination at the national level. The Management Committee, described below, will be established as part of this coordination.

The Management Committee should, where possible, be composed of one representative each from a federal, state, tribal, and local government and Regional Fishery Management Council within the region, as well as the members of the Federal Interagency MPA Working Group. The committee will provide operational guidance to the national system from the perspective of MPA managers. The MPA FAC will continue to provide recommendations to DOC and DOI on the implementation of the Order and on national system implementation from a stakeholder perspective.

**The Management Committee will:**

- provide advice to the MPA Center on annual and long-term priorities and plans for national system support to sites and regions, based on regional stewardship and other priorities and the recommendations of the MPA FAC;
- identify management issues and other priorities that require inter-regional, national, and/or international coordination or efforts; and
- review and provide comment on conservation gaps identified at the ecosystem, regional, and/or national levels.

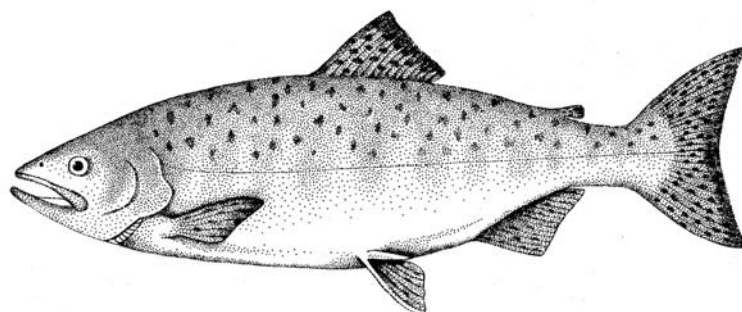
Regional representatives to the Management Committee will be selected by the participating MPA managing entities in the region. Each federal agency will maintain an appointed ex officio member of the Federal Interagency MPA Working Group, who also will serve on the Management Committee. Finally, two MPA FAC members, representing different stakeholder interests, will serve as ex officio members of the Management Committee.

**International Coordination**

In addition to U.S. MPA programs and authorities, there are numerous international MPA efforts and

linkages that can contribute to and benefit from the national system. The United States shares a number of common resources with both neighboring and distant countries, and technical capabilities reside in many countries, organizations, and institutions around the world. In recognition of these important international connections, Section 4(a)(8) of the Order calls on federal agencies to identify opportunities to improve “linkages with, and technical assistance to, international [MPA] programs.”

For instance, migratory species (e.g., whales, sea turtles, pelagic fishes, and birds) rely on the marine and coastal waters of multiple countries during various stages of their lives. In addition, there are also a number of international law and policy issues regarding our underwater cultural heritage. For example, certain cultural resources that rest in the seabed of U.S. MPAs, such as sunken military craft and associated contents that have not been abandoned, have a protected sovereign status and permanent right, title, and interest may be vested in the flag country.



To strengthen international coordination on MPA issues, the MPA Center, representing the National System of MPAs, and the Management Committee, in coordination with the U.S. Department of State and internationally relevant regional forums, can seek to enhance existing or establish new linkages with efforts in other countries, in accordance with international law. Such linkages should be focused on issues of mutual benefit to U.S. and international MPAs and MPA programs, such as policy coordination, collaborative activities, information and capacity sharing, capacity building, and technical assistance.





### C. EVALUATING NATIONAL SYSTEM EFFECTIVENESS

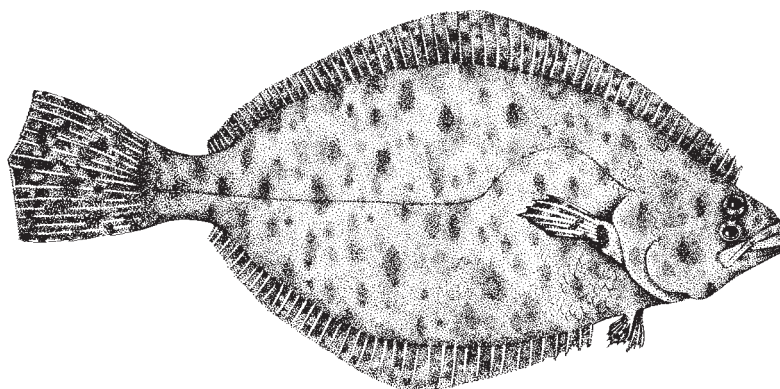
Monitoring and evaluating management effectiveness is a key component of an effective, adaptively managed national system. To this end, the Order calls for “practical, science-based criteria and protocols for monitoring and evaluating the effectiveness of MPAs” (Section 4(a)(5)). Monitoring and evaluation efforts of the national system are focused on measuring the effectiveness of the national system in achieving its priority conservation objectives and management objectives and the contributions of participating national system MPAs and MPA programs in achieving those objectives. It is not a function of the national system to monitor or evaluate individual MPAs or MPA programs, although the national system can provide assistance to MPA programs to assist them in better evaluating their own efforts. Stakeholders with an interest in participating in the monitoring of individual MPAs or MPA programs should consult with the managing entity or entities.

#### The national system’s approach to evaluating effectiveness will include:

- technical and scientific support for fostering sound monitoring, and evaluation programs at the participating MPA site or system level;
- development and implementation of a set of standards and protocols for assessing broader national system effectiveness. In order to be efficient and effective, the development of such standards and protocols requires significant input and advice from participating national system MPA sites and systems; and
- cooperation with existing or developing observation, monitoring and evaluation programs.

The natural and social science data currently collected and used by MPA sites and systems to monitor and evaluate their own effectiveness will not only help in their adaptive management efforts, but also will contribute to the analysis of the national system’s success in meeting its goals. The national system will aim to support the tools and technical assistance needed by partner MPA sites and systems to effectively monitor and evaluate their own effectiveness. It will not create new requirements for sites or systems to undertake new or expanded monitoring and evaluation activities.

With advice from the MPA FAC, the Management Committee, national system MPA partners in the regions, and science and management experts, the MPA Center will develop and publish guidance for monitoring and evaluating the effectiveness of the national system.



These guidelines will provide an integrated approach for monitoring the effectiveness of the national system, including the degree to which the priority conservation objectives are met and the benefits are provided to participating MPA sites and systems.

In addition, if identified as stewardship priorities by participating MPA sites and systems, training and technical assistance efforts targeted at monitoring and evaluation can be developed, such as establishing relevant sets of natural and social science indicators and protocols.



The results of monitoring and evaluating the national system will be used to manage the system adaptively and identify future focus areas for stewardship and other initiatives, including but not limited to: conservation gaps; technical and other forms of assistance in support of MPA sites and programs; and necessary changes to the national system's goals, objectives, or other components.

## D. FEDERAL AGENCY RESPONSIBILITIES TO AVOID HARM

Section 5 of the Order calls for federal agencies to “avoid harm” to the natural and cultural resources protected by MPAs that become part of the national system. Each federal agency is responsible for its own implementation of its responsibilities under Section 5.

### The Order states:

*Each Federal agency whose actions affect the natural or cultural resources that are protected by an MPA shall identify such actions. To the extent permitted by law and to the maximum extent practicable, each Federal agency, in taking such actions, shall avoid harm to the natural and cultural resources that are protected by an MPA. In implementing this section, each Federal agency shall refer to the MPAs identified under subsection 4(d) of this order.*

## Implementation

### To implement Section 5 of the Order:

- The MPA Center will collect, maintain, and make publicly available via the MPA Center's website, <http://www.mpa.gov>, and *Federal Register* notices, all relevant regulatory and resource information for MPAs that are subject to agency requirements under Section 5, in the form of a List of National System MPAs. National system MPAs included in the List are those that have satisfied the requirements outlined in Sections III (B)

and (D) of the Framework and are officially a part of the National System of MPAs. Information maintained for each national system MPA on the List will include: site name, location, national system MPA category, priority conservation objective(s) contributed to, boundaries, key resources protected, authorizing legislation, level and types of protection, managing authority/program, name of point of contact, and relevant contact information.

- Federal agencies shall: (1) identify their activities that affect the natural or cultural resources protected by individual national system MPAs, and (2) to the extent permitted by law and to the maximum extent practicable, avoid harm to those resources. Both of these activities should be accomplished through existing natural or cultural resource management or review authorities and procedures, including, but not limited to those under:
  - National Environmental Policy Act;
  - Coastal Zone Management Act;
  - National Historic Preservation Act;
  - Endangered Species Act;
  - Federal Water Pollution Control Act (Clean Water Act);
  - Marine Mammal Protection Act;
  - National Wildlife Refuge System Administration Act;
  - National Park Service Organic Act;
  - Rivers and Harbors Act;
  - Sunken Military Craft Act;



- National Marine Sanctuaries Act (Title III of the Marine Protection, Research, and Sanctuaries Act);
  - Magnuson-Stevens Fishery Conservation and Management Act;
  - Outer Continental Shelf Lands Act;
  - Coral Reef Conservation Act;
  - Energy Policy Act of 2005; and
  - Other pertinent statutes and Presidential Executive Orders.
- Upon receipt of a federal agency's request for assistance, the MPA Center will work to facilitate support for policy and coordination assistance through existing agency review processes.
  - As needed, the MPA Center, working with federal agencies, will produce voluntary technical guidance and best practices on priority issues to assist federal agencies in their determination of impacts to marine resources protected by national system MPAs and options for avoiding harm. The MPA Center also will work with federal agencies to provide clear public outreach materials to educate and inform the public on the requirements of Section 5.
  - Federal agencies will report their actions to implement Section 5, any comments received, and responses to such comments on an annual basis as part of the agency report required by Section 6 of the Order. The MPA Center, as required by the Order, will post these reports on the <http://www.mpa.gov> website.

## Activities to Be Considered

The implementation of Section 5 is governed by existing authorities, each with its own threshold and/or trigger for requiring individual federal agencies

to identify, review, mitigate, or otherwise alter their activities based on impacts to natural or cultural resources. The Order does not provide any new authority for any federal agency or the MPA Center to review activities of any other federal agency or alter standards for existing review. The thresholds and/or triggers for agency action under Section 5 are the same as those listed under any existing authority or authorities that normally require agency review of a proposed activity. Section 5 does, however, require agencies to ensure that their activities avoid harm to the natural and cultural resources as protected by the MPAs included in the national system (to the extent permitted by law and to the maximum extent practicable) when fulfilling their existing requirements for identifying, reviewing and implementing activities.

Furthermore, there is no single definition for key terms used to describe the requirements under Section 5, including but not limited to: "avoid harm," "affect," or "to the extent permitted by law and to the maximum extent practicable." Instead, the meaning of any of these terms, as applied to an agency's requirements under Section 5, is dependent on the agency's interpretation, consistent with any requirements of the legal framework used to protect the resources of the MPA and any other applicable natural or cultural resource review or protection authorities or procedures.

Pursuant to Section 5 of the Order, agency requirements apply only to the natural or cultural resources specifically afforded protection by the site as described on the List of National System MPAs. For example, within national system MPAs established for sustainable production, other resources not specifically protected by the MPA would not be subject to the "avoid harm" provision. For sites that have both a terrestrial (i.e., an area that falls outside of the definitional boundaries of 'marine') and marine area, only the marine portion and its associated protected resources will be included on the List of National System MPAs and subject to Section 5 of the Order. To implement Section 5, each federal agency shall identify its activities that affect the natural or cultural resources protected by a national system MPA through the existing natural and cultural resource review processes normally required for these activities.

Similarly, the determination of whether an agency in taking such actions is avoiding harm to those resources, to the extent permitted by law and to the maximum extent practicable, will be made by the individual agency using its existing natural and cultural resource review processes and/or authorities.

### **Comment and Response on Agency Actions**

Comments from any person, organization, or government entity concerning federal agency compliance with Section 5 should be directed to the relevant lead federal agency for the action or actions that are the subject of the comments. Each agency shall make a determination on the response and take appropriate action. Similarly, any requests for information regarding compliance with Section 5, including those under the Freedom of Information Act (FOIA), should be directed to the lead agency for the action or actions that are the subject of the request. Any comments or requests for information received by the MPA Center or any federal agency in regard to another agency's compliance with this Section shall, pursuant to FOIA procedures, be forwarded in a timely manner to the relevant responsible agency for its consideration, with due notice given to the sender.

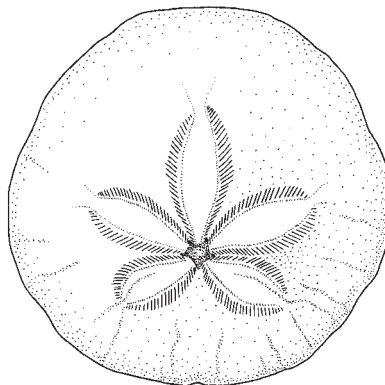
### **Reporting and Periodic Review**

As required under Section 6. Accountability of the Order, "[e]ach Federal agency that is required to take actions under the order shall prepare and make public annually a concise description of actions taken by it in the previous year to implement the order, including a description of written comments by any person or organization stating that the agency has not complied with this order and a response to comments by the

agency." These annual reports, including a point of contact for each federal agency, will be posted at <http://www.mpa.gov>. In addition, on a biennial basis, the MPA Center will consolidate agency annual reports into a biennial "State of the National System of MPAs" report. The biennial report will include an assessment of overall progress to develop the National System of MPAs and the effectiveness of meeting its stated goals and objectives, including those related to Section 5 of the Order. More information on the biennial report can be found below in Section V (E) of this document.

## **E. TRACKING AND REPORTING**

Tracking and reporting of the national system are important activities for communicating regional and national accomplishments and priority future efforts in need of support. In order to track and report progress, the MPA Center will coordinate a biennial "State of the National System of MPAs" progress report and post all available data and assessments on the <http://www.mpa.gov> website. In addition, the MPA Center will work with the Management Committee and participating



MPA sites and programs to determine how best to comprehensively track overall national system priorities once efforts to establish the system have been initiated. Additional information on these efforts is provided below.

### **Biennial "State of the National System of MPAs" Progress Report**

On a biennial basis, the MPA Center, working with its national system partners, will develop and publish on the <http://www.mpa.gov> website a consolidated "State of the National System" progress report, in accordance with Section 6 of the Order. The report will consolidate and summarize the annual reports submitted by federal agencies for the period and



also will include information from states and other management entities. It will include:

- a list of existing National System MPAs and newly added or removed sites;
  - a summary of federal activities taken in support of the national system;
  - a summary of regional, national, and international planning efforts;
  - a summary of assistance provided to national system MPAs;
  - an evaluation of the effectiveness of the national system in meeting its goals and objectives at the national and regional levels;
  - a summary of actions taken to implement Section 5 of the Order;
  - any recommendations developed by the MPA FAC during the period;
  - a description of public comments received and responses sent during the period; and
  - regional, national, and international priorities for future coordination, planning, technical, and other types of support (see Sections V (A) and (B) of this document).
- MPAs and MPA systems that have been included in the national system;
  - areas and resources identified as national system conservation gaps;
  - recommendations for new or enhanced MPAs resulting from regional MPA planning;
  - regional MPA science, stewardship, and effectiveness strategies and national and other priorities for improving stewardship and effectiveness;
  - international activities and commitments;
  - information on the nomination process and supporting analyses;
  - information related to the evaluation of national system effectiveness;
  - agency and MPA Center reports;
  - public comments received on MPA nominations to and removals from the national system; and
  - the official List of National System MPAs.

### **MPA.gov Website**

As required by the Order, the website <http://www.mpa.gov> will be maintained to communicate and archive all information about the development and implementation of the national system. The website will house information about a variety of technical, scientific, governance, and other MPA topics relevant to the breadth of MPA stakeholders, including the MPA FAC. In addition, the website will house information on national system progress, priorities, and plans, including:

- MPAs found to be eligible for nomination to the national system;

### **F. MPA FEDERAL ADVISORY COMMITTEE**

The MPA FAC is authorized by the Order to provide expert advice and recommendations to DOC and DOI on the development and implementation of the National System of MPAs and implementation of the Order. The MPA FAC is comprised of 30 non-federal members representing regionally diverse perspectives and areas of expertise from all regions of the country, including natural and social science, commercial and recreational fishing, tribal and state governments, oil and gas, tourism, environmental organizations, and others. It also includes ex officio members from pertinent federal agencies. A full description of the MPA FAC can be found in Appendix B and a list of the MPA FAC members, past and present, can be found in Appendix E of this document.

Throughout the development and implementation of the national system, the MPA FAC will continue to advise DOC and DOI on priority topics and issues as identified by the agencies. The MPA FAC also will provide recommendations to the MPA Center concerning national system conservation gaps, as described in Section IV (D) above.

## G. ROLE OF THE NATIONAL MPA CENTER IN THE NATIONAL SYSTEM

**The specific roles of the MPA Center in coordinating the national system are to:**

- provide coordination and facilitation of the national system as a whole (individual MPA programs and managing entities remain responsible for administering their sites and systems);
- coordinate processes to identify, nominate, and include eligible MPAs in the national system, remove MPAs from the national system, and maintain the List of National System MPAs;
- build public and private partnerships and catalyze action to support the identified science, stewardship, and effectiveness priorities of participating MPA programs;
- facilitate the development and maintenance of regionally appropriate MPA coordination mechanisms among participating programs, and, where possible, maintain a Regional MPA Coordinator in the field to support such efforts;
- develop, in consultation with participating programs, regional MPA Science, Stewardship, and Effectiveness Strategies;
- lead collaborative efforts to identify conservation gaps in the national system;
- build and catalyze partnerships and actions to provide technical or scientific information, staff, or other support for collaborative ecosystem-based MPA planning in order to identify and recommend new or enhanced MPAs;
- promote stewardship of the national system through effective outreach and education;
- support the operation of the MPA FAC and the coordination of the MPA Federal Interagency Working Group and Management Committee;
- track, communicate, integrate, and recommend suggested MPA science and other national system priorities, needs, and commitments across the regional, national, and international levels;
- develop a biennial “State of the National System of MPAs” report and maintain comprehensive information about the national system’s priorities and progress on the <http://www.mpa.gov> website;
- monitor and evaluate the effectiveness of the national system and implement adaptive management strategies based on results; and
- maintain the <http://www.mpa.gov> website as a mechanism for communicating information about the national system.





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FRAMEWORK FOR THE NATIONAL SYSTEM OF MARINE PROTECTED AREAS OF THE UNITED STATES OF AMERICA



## VI. GLOSSARY OF KEY TERMS

The following are definitions of key terms as used in this Framework document. See Table 2 for the full definition of key terms used in the definition of an MPA.

**Adaptive management** – “A systematic process for continually improving management policies and practices by learning from the outcomes of operational programs.” (British Columbia Forest Service, <http://www.for.gov.bc.ca/hfp/amhome/Amdefs.htm>).

**Area** – Must have legally defined geographical boundaries and may be of any size, except that the site must be a subset of the United States federal, state, local, or tribal marine environment in which it is located.

**Biodiversity** – The variety of living organisms in all their forms. Technically, biodiversity includes variety at three levels of biological organization: genetic variation within species, the variety of species, and the variety of ecological communities.



**Conservation area** – Multiple uses allowed; however, uses and activities may be restricted or zoned and access limited, as necessary to meet site management goals.

**Cultural heritage** – The cultural resources that reflect the nation’s maritime history and traditional cultural connections to the sea, and the uses and values they provide to present and future generations.

**[Marine] Cultural resource** – A tangible entity that is valued by or significantly representative of a culture, or that contains significant information about a culture. Cultural resources for purposes of the MPA Executive Order are tangible entities at least 50 years in age that reflect the nation’s maritime history and traditional cultural connections to the sea, such as archaeological sites, historic structures, shipwrecks, artifacts, and traditional cultural properties. Cultural resources are categorized as districts, sites, buildings, structures, and objects for the National Register of Historic Places, and as archaeological resources, cultural landscapes, structures, and ethnographic resources for MPA management purposes. Ethnographic resources include natural resources and sites with tribal or traditional cultural meaning, value and use.

**Ecological network** – A set of discrete MPAs within a region that are connected through dispersal of reproductive stages (eggs, larvae, spores, etc.) or movement of juveniles and adults. The effective management of certain marine species may require networks of discrete MPAs encompassing regional collections of local populations linked by dispersal and movement, which may be essential for some local populations to persist. The creation of MPA networks must take into consideration other non-MPA areas that provide similar linkages, which does not necessarily imply additional management measures outside MPAs or the creation of a “super MPA” with boundaries encompassing all MPAs in the network.<sup>9</sup>

**Ecosystem** – A geographically specified system of organisms, including humans and the environment and the processes that control its dynamics.

**Ecosystem approaches to management (or Ecosystem-based management)** – A management approach that “looks at all the links among living and nonliving resources, rather than considering single species in isolation.” This approach “reflects the relationships among all ecosystem components, including humans and nonhuman species, and the environments in which they live. This system of management considers human activities, their benefits, and their potential impacts within the context of the broader biological and physical environment.”<sup>10</sup>

**Extractive** – Activities that remove or are intended to remove living or nonliving resources from an MPA.

**Large Marine Ecosystems** – Regions of ocean space encompassing coastal areas from river basins and estuaries out to the seaward boundary and continental shelves and the seaward margins of coastal current systems. They are relatively large regions on the order of 200,000 square kilometers or greater, characterized by distinct bathymetry, hydrography, productivity, and trophically dependent populations.

**Lasting** – For natural heritage and cultural heritage MPAs, the site’s authority must clearly state its intent to provide permanent protection. For sustainable production MPAs, the site must be established with the intent at the time of designation to provide, at a minimum, the duration of protection necessary to achieve the mandated long-term sustainable production objectives for which the site was established.

**Local government** – A legally established unit of government at a level below state government, including but not limited to county, city, town, or village.

**Management [managing] entity or entities** – The federal, state, local, or tribal entity or entities with legal authority to designate, promulgate regulations for, and/or manage an MPA. In many cases, authority lies with one entity or program; however, in certain instances, such as the federal/state National

<sup>9</sup> MPA FAC, 2005.

<sup>10</sup> U.S. Commission on Ocean Policy (USCOP). 2004. An Ocean Blueprint for the 21st Century, Washington, D.C.

Estuarine Research Reserve System and state/tribe co-management arrangements, authority is formally shared or split among two or more entities.

**Marine environment** – Must be: (a) ocean or coastal waters (note: coastal waters may include intertidal areas, bays, or estuaries); (b) an area of the Great Lakes or their connecting waters; (c) an area of lands under ocean or coastal waters or the Great Lakes or their connecting waters; or (d) a combination of the above.

**Marine Protected Area** – Any area of the marine environment that has been reserved by federal, state, territorial, tribal, or local laws or regulations to provide lasting protection for part or all of the natural and cultural resources therein. See also Area, Marine environment, Reserved, Lasting, and Protection.

**Marine Reserve** – A type of MPA where extractive uses are prohibited (also referred to as “no-take” reserve).

#### **National System of MPAs**

– The group of MPA sites, networks, and systems established and managed by federal, state, tribal, and/or local governments that collectively enhance conservation of the nation’s natural and cultural marine heritage and represent its diverse ecosystems and resources.

National system MPAs work together at the regional and national levels to achieve common objectives for conserving the nation’s important natural and cultural resources.

**Natural heritage** – The nation’s biological communities, habitats, ecosystems, and processes and the ecological services, uses, and values they provide to present and future generations.

**[Marine] Natural resource** – Any biological or physical component of the marine environment that contributes to the structure, function, goods, or services provided by a marine ecosystem.

**Network** – A set of discrete MPAs within a region or ecosystem that are connected through complementary purposes and synergistic protections. A network of MPAs could focus on ecosystem processes, certain individual marine species, or cultural resources. For example, an ecological network of MPAs could be connected through dispersal of reproductive stages or movement of juveniles and adults (see “Ecological network”).

**Precautionary design** – Decisions are based on the best information currently available from natural science, social science, customary and local knowledge, and other sources. Where information is limited, decisions should reflect a precautionary approach.



**Protection** – Must have existing laws or regulations that are designed and applied to afford the site with increased protection for part or all of the natural and submerged cultural resources therein for the purpose of maintaining or enhancing the long-term conservation of these resources, beyond any general protections that apply outside the site.

#### **Region or Regional** –

An area inclusive of and determined by participating national system sites and systems that is based on

common management interests, similar or linked ecological characteristics, and/or other factors that provide a foundation for meaningful coordination.

**Reserve area** – No extractive uses allowed, except permitted scientific and educational uses; destructive or disruptive activities are limited; other uses and activities may be restricted or zoned; and access is limited, as necessary to meet site management goals.

**Reserved** – Must be established by and currently subject to federal, state, local, or tribal law or regulation.



**Stakeholder** – Individuals, groups of individuals, organizations, or political entities interested in and/or affected by the outcome of management decisions. Stakeholders may also be individuals, groups, or other entities that are likely to have an effect on the outcome of management decisions. Members of the public also may be considered stakeholders.

**State** – See United States.

**Stewardship** – Careful and responsible management to ensure goals and objectives are being achieved for the benefit of current and future generations.

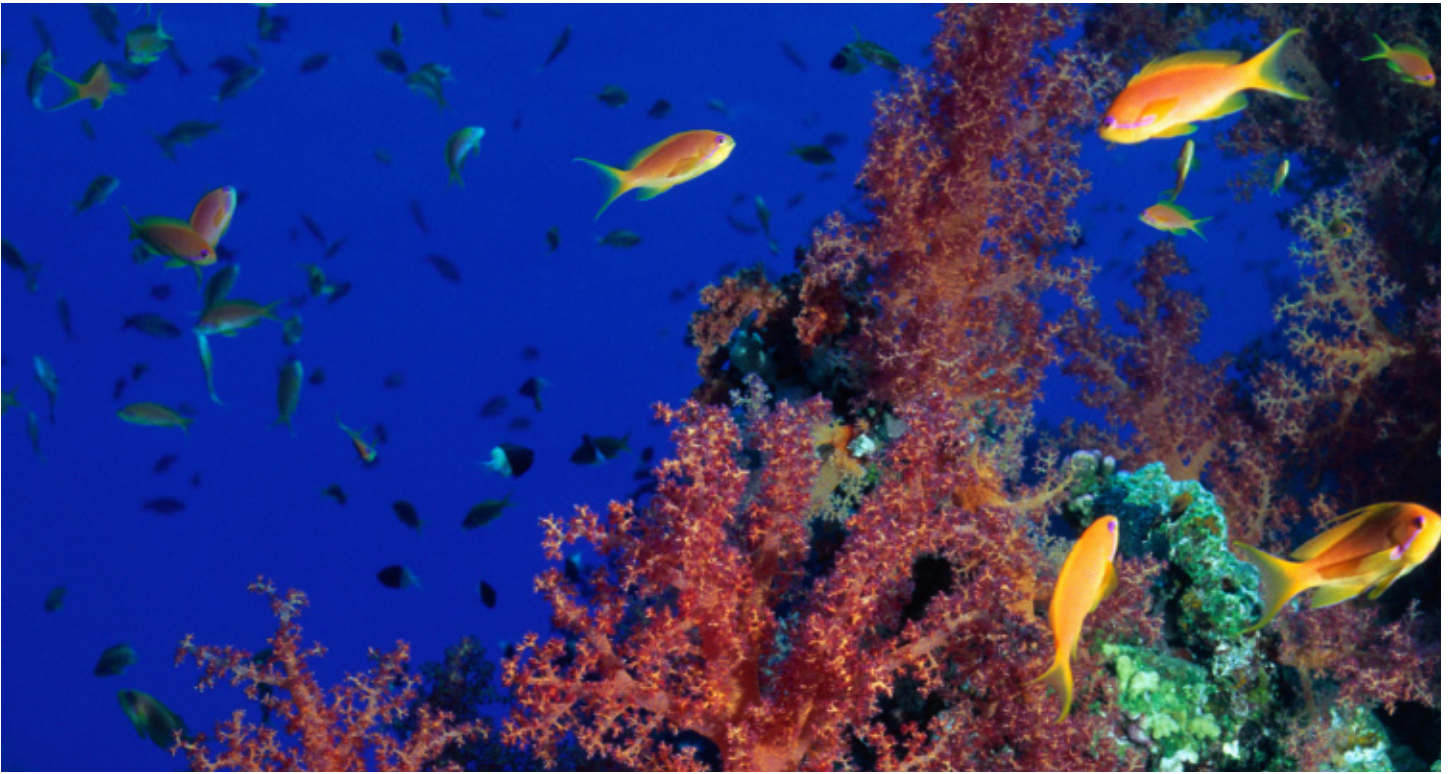
**Sustainable production resources** – The nation's renewable living resources and their habitats (including, but not limited to, spawning, mating, and nursery grounds and areas established to minimize bycatch of species) and the social, cultural, and economic values and services they provide to present and future generations.

**System** – A set of MPAs connected by shared programmatic, administrative, or other organizing principles or purposes. A system of MPAs is not necessarily confined to a specific geographic area such as a region or ecosystem.

**Tribe** – A federally recognized American Indian or Alaska Native government.

**United States** – Includes the several states, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands of the United States, American Samoa, the Commonwealth of the Northern Mariana Islands, and Guam.





# VII. ADMINISTRATIVE AND NATIONAL POLICY REQUIREMENTS

1. Nothing in Executive Order 13158 or this Framework shall be construed as altering existing authorities regarding the establishment of federal MPAs in areas of the marine environment subject to the jurisdiction and control of states, the District of Columbia, Commonwealth of Puerto Rico, the U.S. Virgin Islands, American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands.
2. Neither Executive Order 13158 nor this Framework creates any right or benefit, substantive or procedural, enforceable in law or equity by a party against the United States, its agencies, its officers, or any person.
3. Neither Executive Order 13158 nor this Framework diminishes, affects, or abrogates Indian treaty rights or U.S. trust responsibility to Indian tribes.
4. Federal agencies taking actions pursuant to Executive Order 13158 or under this Framework must act in accordance with international law and with Presidential Proclamation 5928 of December 27, 1988, on the Territorial Sea of the United States of America; Presidential Proclamation 5030 of March 10, 1983, on the Exclusive Economic Zone of the United States of America; and Presidential Proclamation 7219 of September 2, 1999, on the Contiguous Zone of the United States.



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FRAMEWORK FOR THE NATIONAL SYSTEM OF MARINE PROTECTED AREAS OF THE UNITED STATES OF AMERICA



# VIII. APPENDICES

## APPENDIX A. ACRONYMS AND ABBREVIATIONS USED

### **Acronyms**

COP – Commission on Ocean Policy  
DOC – Department of Commerce  
DOI – Department of the Interior  
EPA – Environmental Protection Agency  
FOIA – Freedom of Information Act  
FMC – Federal Fishery Management Council  
FWS – U.S. Fish and Wildlife Service  
LME – Large Marine Ecosystem  
MLCD – Manele-Hulopoe Marine Life Conservation District  
MPA – Marine protected area  
MPA FAC – Marine Protected Areas Federal Advisory Committee  
NEPA – National Environmental Policy Act  
NRCE – National Register Criteria for Evaluation  
NRHP – National Register of Historic Places  
NERRS – National Estuarine Research Reserve System  
NMFS – National Marine Fisheries Service  
NOAA – National Oceanic and Atmospheric Administration  
NRCE – National Register Criteria for Evaluation  
NRHP – National Register of Historic Places  
SIMOR – Subcommittee on Integrated Management of Ocean Resources



U.S. – United States of America  
USOAP – U.S. Ocean Action Plan (USOAP)  
USGS – US Geological Survey  
WCPA/IUCN – World Commission on Protected Areas/International Union for Conservation of Nature

## Abbreviations

Framework – Framework for Developing the National System of MPAs  
MPA Center – National Marine Protected Areas Center  
National System – National System of Marine Protected Areas  
NOAA Fisheries Service – NOAA’s National Marine Fisheries Service  
Order – Executive Order 13158 of May 26, 2000  
Management Committee – National System Management Committee  
Strategy – MPA Stewardship, Science and Effectiveness Strategy

## APPENDIX B. EXISTING U.S. MPA PROGRAMS, FEDERAL MPA INITIATIVES, AND TRIBAL AND INTERNATIONAL EFFORTS

The nation’s existing suite of MPA sites, programs, authorities, and systems at all levels of government are the fundamental components of the national system. The recognition of and full participation by these federal, state, tribal, and local government programs are critical to the national system’s success. Working together, these existing programs and authorities, federal MPA coordination initiatives, and linkages to international MPA initiatives will make important contributions to and receive benefits from the development of an effective national system. This section provides an overview of these major efforts and generally describes their respective roles in the national system.

### A. U.S. MPA Programs and Authorities

MPAs in the United States are managed by a number of entities and programs at federal, state, tribal, and local government levels. This section provides a brief summary of these programs and describes the nature of their role in the development of the national system.

#### Federal and Federal/State MPA Programs

Currently, there are several federal MPA programs and one federal/state partnership MPA program in the United States. Each has one or more specific legal mandates that it is required to fulfill. Many of these programs have established and actively manage systems of MPAs designed to fulfill their responsibilities to the nation. As described below, the federal MPA programs include DOI’s National Park System and National Wildlife Refuge System and NOAA’s National Marine Sanctuary System, National MPA Center, and National Marine Fisheries Service programs. The National Estuarine Research Reserve System is composed of NOAA/state partnerships.

*National Park System:* The National Park System is administered by DOI’s National Park Service with a mission to conserve the scenery and the natural and historic objects and wildlife



therein and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations. The National Park System preserves unimpaired natural and cultural resources and values representative of the nation's ocean heritage in superlative natural, historic, and recreation areas in every region. The National Park System currently contains 72 ocean and Great Lakes parks.

*National Wildlife Refuge System:* The U.S. Fish and Wildlife Service's (FWS) mandate is to provide the federal leadership to conserve, protect, and enhance fish and wildlife and their habitats for the continuing benefit of people. The mission of the National Wildlife Refuge System, a program within the DOI FWS, is to administer a national network of lands and waters for the conservation, management, and where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans. There are 177 ocean and Great Lakes refuges.

*National Marine Sanctuary System:* Under the National Marine Sanctuaries Act, NOAA establishes areas of the marine environment that have special conservation, recreational, ecological, historical, cultural, archaeological, scientific, educational, or aesthetic qualities as national marine sanctuaries to: (A) improve the conservation, understanding, management, and wise and sustainable use of marine resources; (B) enhance public awareness, understanding, and appreciation of the marine environment; and (C) maintain for future generations the habitat and ecological services of the natural assemblage of living resources that inhabit these areas. There are currently 13 sanctuaries and one marine national monument in the national marine sanctuaries system.

*National Marine Protected Areas Center (MPA Center):* The mission of the MPA Center is to facilitate the effective use of science, technology, training, and information in the planning, management, and evaluation of the nation's system of marine protected areas. The MPA Center is housed within NOAA and coordinates across NOAA programs, as well as with pertinent federal, state, tribal, and local MPA and MPA-support entities. At the federal level, the MPA Center coordinates closely with DOI. The MPA Center's specific national system roles are described in detail in Section V (G) of this document.

*National Marine Fisheries Service Programs and Federal Fishery Management Councils (FMC):* Under a number of statutory authorities, the National Marine Fisheries Service establishes and manages MPAs to rebuild and maintain sustainable fisheries, conserve and restore healthy marine habitats, and promote the recovery of protected species, including marine mammals and anadromous fish. These sites fall under four major categories: Federal Fisheries Management Zones, Federal Fisheries Habitat Conservation Zones, Federal Threatened and Endangered Species Protected Areas, and Federal Marine Mammal Protected Areas. FMCs have been established for the stewardship of fishery resources through the preparation, monitoring, and revision of fishery management plans. These FMCs enable states, the fishing industry, consumer and environmental organizations, and other interested persons to participate in and advise on the management of marine fisheries and to take into account the social and economic needs of the states. FMC-recommended actions are subject to review and approval by the Secretary of Commerce through a delegation of authority to the National Marine Fisheries Service. The National Marine Fisheries Service is responsible for the promulgation of site-specific regulations to delineate MPA boundaries and establish associated protective measures.





*National Estuarine Research Reserve System (NERRS):* The mission of the NERRS is to promote stewardship of the nation's estuaries through science and education using a system of protected areas. The NERRS, which is currently made up of 27 sites, is a unique partnership program between NOAA and the coastal states to protect estuarine land and water, which provides essential habitat for wildlife, and offers educational opportunities for students, teachers, and the public. The NERRS sites serve as living laboratories for scientists. With its unique state/federal partnership, the NERRS participation with the national system will require close consultation and coordination with the NOAA Estuarine Reserves Division and state agency or university staff of NERRS sites.

*National Monuments:* In June 2006, President Bush established the Northwestern Hawaiian Islands Marine National Monument under Presidential Proclamation 8031 (71 FR 36443, June 26, 2006) under the authority of the Antiquities Act (16 U.S.C. 431). This was the nation's first marine national monument. The Monument – renamed the Papahānaumokuākea Marine National Monument in March 2007 to reflect Hawaiian language and culture – is approximately 100 nautical miles wide and extends approximately 1,200 miles from northwest to southeast around the Northwestern Hawaiian Islands. In December 2006, the Secretaries of Commerce and the Interior and the Governor of Hawai'i signed a Memorandum of Agreement to jointly manage federal and state lands and waters within the Monument as Co-Trustees, to collectively conserve and manage Monument natural and cultural resources.

## **State and Local Government MPA Programs**

Each U.S. coastal state also has a variety of MPA programs and authorities, often at both the state and local government levels. State MPA programs can include: Historic Preservation offices; Fish and Wildlife agencies; Coastal Zone Management programs; Fishery Management agencies; Parks and Recreation agencies, and other authorities. MPAs are used by states for a variety of purposes ranging from managing fisheries, recreation, tourism, and other uses to protecting ecological functions, preserving shipwrecks, and maintaining traditional or cultural connections to the marine environment. In addition, local governments within coastal states, such as counties and other municipalities, have programs that establish and manage MPAs for protecting marine species, nursery grounds, shellfish beds, and other important natural and cultural resources. Similar to their federal analogs, some state MPA programs have also developed and continue to manage their existing sites as systems of MPAs.

Given the significant coastal and marine resources under state jurisdiction, the large number of state MPAs – roughly 83 percent of the national total – compared to federal sites, and the potential impacts and benefits to states from MPAs located in federal waters, full state participation in the development of the national system is critical to its success. It is important to note, however, that state and local government participation in the national system is voluntary under the Order. The MPA Center will work closely with states to determine their interest in participating. State government agencies, programs, and authorities that elect to participate in the national system will be full partners and will have an equal voice in decision making to set priorities for collaborative efforts at the regional and national levels.

## **Tribal MPA Authorities, Programs, and Linkages**

Tribal governments have an integral role to play in resource management—legally, culturally and economically. The Order “does not diminish, affect, or abrogate Indian treaty rights or United States trust responsibilities to Indian tribes,” and calls on NOAA and DOI to “consult

with...tribes...and other entities to promote coordination of federal, state, territorial, and tribal actions to establish and manage MPAs.” Because the federal government has a trust responsibility to all federally recognized tribes, conservation goals and management practices for MPAs should be established through government-to-government consultations.

In addition, several Indian tribes in Western Washington and the Great Lakes have treaty-reserved fishing rights. These tribes share co-management authority and responsibility for marine resources in their usual and customary fishing areas with the federal government and/or states, depending on the specific resource and area identified. Tribes that have sole management authority may choose to establish MPAs as a tool to meet conservation goals for areas where they have management responsibilities. For areas where tribes share co-management authority with the federal government and/or states, any entity wishing to establish MPAs must do so through government-to-government consultations. The MPA Center will work closely with tribes to determine their interest in participating in the national system. Tribal governments that elect to participate in the national system will be full partners and will have an equal voice in decision making to set priorities for collaborative efforts at the regional and national levels.

Numerous opportunities to enhance coordination and collaboration with tribes on issues related to MPAs are possible through the development of the national system. Some of these opportunities could include a range of potential partnerships aimed at the sharing of information; enhancing technical, scientific, and management capacity; and developing conservation strategies for marine resources of mutual concern. The MPA Center and national system partners, many of whom have ongoing relationships with tribes, will consult with tribal governments to determine their interest in participating in the national system and will work with them to develop appropriate mechanisms and protocols.

## **B. Linkages to Related Federal MPA Initiatives**

There are several other significant federal MPA initiatives that are either directly or indirectly linked to the development of the national system. These efforts make important contributions to and can benefit from the development of the national system. This section provides an overview of each of these efforts and further describes their relationship and role in the development of the national system.

### **MPA Federal Advisory Committee**

The MPA FAC is authorized by the Order to provide expert advice and recommendations to DOC and DOI. The MPA FAC is comprised of 30 non-federal members representing diverse perspectives and areas of expertise, including natural and social science, commercial and recreational fishing, tribal and state governments, oil and gas, tourism, environmental organizations, and others. The MPA FAC also includes ten federal ex officio members to provide information and support from entities managing, supporting, or potentially affecting MPAs. The MPA FAC completed its first report in June 2005, which provided recommendations on the goals, objectives, principles, and structure of the national system, and its second report in October 2007, which provided recommendations regarding the



development of the national system. The MPA FAC will continue to advise DOC and DOI on aspects of developing and implementing the national system. Information on MPA FAC members and its work products are posted at <http://mpa.gov/mpafac/fac.html>.

### **The Federal Interagency MPA Working Group**

The Order directs DOC and DOI to work closely with the other federal agencies to develop the national system. To provide a mechanism for this coordination, the MPA Center established the Federal Interagency MPA Working Group, which includes representatives from the Departments of Commerce, the Interior, Defense, Homeland Security, State, Agriculture, Environmental Protection Agency, National Science Foundation, and the U.S. Agency for International Development. The Federal Interagency MPA Working Group meets several times a year to provide input on policy issues related to national system development, coordinate activities related to the Order, and support the work of the MPA FAC. In addition, members of the Federal Interagency MPA Working Group will serve as members of the National System Management Committee (see Section V (B)).

### **U.S. Ocean Action Plan**

The U.S. Ocean Action Plan (USOAP) outlines a variety of actions for promoting the responsible use and stewardship of ocean and coastal resources for the benefit of all Americans. A Cabinet-level “Committee on Ocean Policy” (COP) was established by Executive Order 13366 (December 17, 2004) to coordinate the activities of executive branch departments and agencies regarding ocean-related matters in an integrated and effective manner to advance the environmental and economic interests of present and future generations of Americans. The President further directs the executive branch agencies to facilitate, as appropriate, coordination and consultation regarding ocean-related matters among federal, state, tribal, and local governments; the private sector; foreign governments; and international organizations. Subcommittees of the COP also have been formed as part of the ocean governance structure described in the USOAP, including the Subcommittee on Integrated Management of Ocean Resources (SIMOR) and the Joint Subcommittee on Ocean Science and Technology. Many of the activities outlined in the USOAP and the subsequent work plans of the COP’s subcommittees complement efforts to develop the national system. Similarly, many of the collaborative actions under the national system may offer opportunities to help advance the USOAP. As these efforts proceed, the MPA Center will work closely with SIMOR to evaluate progress and plans for developing the national system in order to ensure coordination and consistency with the USOAP’s governance structure and overall approach.

In support of this effort, the USOAP calls on National Parks, National Wildlife Refuges, National Marine Sanctuaries, and National Estuarine Research Reserves to, “coordinate and better integrate the existing network of marine managed areas.” Many of these sites overlap or lie adjacent to each other and a history of collaboration between parks, marine sanctuaries, refuges, and reserves provides a model for this expanded network. Although these sites were created under separate agency authorities and statutory mandates, they are united by their proximity and similar science and management priorities. These actions to coordinate and better integrate efforts have been aptly named and are referred to as the “Seamless Network” initiative. The

Seamless Network concept reflects the Administration's emphasis on greater scientific and programmatic coordination between ocean agencies, and complements efforts to implement the MPA Executive Order. In addition, the USOAP calls on the National Park Service to adopt an Ocean Parks Stewardship Action Plan. Both the Seamless Network and Ocean Parks Stewardship Action Plan are described below.

### ***Seamless Network Initiative***

The USOAP calls on the four above mentioned MPA systems to work together, "to promote coordination of research, public education, and management activities at neighboring parks, refuges, sanctuaries, and estuarine reserves." Two federal interagency agreements are called for under this effort. The first is a general agreement that enables site-based, regional, and national collaborations among the partner agencies, and is currently under development. The second is a separate cooperative enforcement agreement signed in August 2005 among the National Wildlife Refuge System, National Park Service, National Marine Sanctuary Program, and National Marine Fisheries Service. When implemented, these agreements will ultimately contribute to several important elements of the national system, such as the identification of science and stewardship priorities for enhancing MPA effectiveness through enhanced interagency cooperation and information sharing. Known as the Seamless Network initiative, this effort will provide a coordination mechanism for these MPA systems in the development of the national system and will build on existing collaborative efforts. In many cases these MPAs have ongoing collaborations and the Seamless Network will expand and enhance those relationships. The wider set of eventual national system partners such as other federal programs and state, tribal, and local government MPA sites and systems may benefit from this model. An active dialogue exists and will be maintained between the developing national system and the Seamless Network Initiative efforts in order to ensure that they complement one another.

### ***Ocean Parks Stewardship Action Plan***

The USOAP calls for the adoption of an Ocean Parks Strategy by the National Park Service. Key elements of this strategy include: characterizing marine species and habitats; evaluating and monitoring their condition; increasing the scientific understanding of how marine ecosystems function; and developing cooperative science-based fishery management plans between parks and state agencies. This plan was issued in December 2006 and can be viewed at [http://www.nps.gov/pub\\_aff/oceans/Ocean\\_Park\\_ActionPlan.pdf](http://www.nps.gov/pub_aff/oceans/Ocean_Park_ActionPlan.pdf). This important effort offers opportunities for collaborative approaches between the National Park Service, the Seamless Network initiative, and the national system to address shared science and management priorities.

## **C. International MPA Programs and Authorities**

In addition to U.S. MPA programs and authorities, there are numerous international MPA efforts and linkages that can contribute to and benefit from the national system. Marine ecosystems and their associated natural resources rarely align with the political boundaries of sovereign countries. Moreover, ecosystems often overlap with adjacent countries and



**Table 4. Examples of Existing U.S. MPAs**

MPA Name and Location	Name of Managing Entity and Type of Management	MPA Description*
<p>Ashepoo-Combahee-Edisto (ACE) Basin National Estuarine Research Reserve</p> <p>South Carolina</p>	<p>Federal/State Partnership Management: National Oceanic and Atmospheric Administration and South Carolina Department of Natural Resources</p>	<p>ACE Basin is one of the largest undeveloped estuaries on the East Coast. Diverse estuarine wetlands provide an extensive complex of wildlife habitat types; the region contains 91,000 acres of tidal marshes, 26,000 acres of managed impoundments, and 12,000 acres of maritime islands.</p>
<p>Manele-Hulopoe Marine Life Conservation District (MLCD)</p> <p>Hawaii</p>	<p>State Management: Hawaii Department of Land and Natural Resources</p>	<p>The Manele-Hulopoe Marine Life Conservation District (MLCD) is located in the waters offshore of Palawai and Kamao on the southwestern coast of Lanai. Within Manele Bay corals are most abundant along the sides of the bay near the cliffs, where the bottom slopes off quickly to about 40 feet. The middle of the bay is a sand channel. Just outside the western edge of the bay near Pu‘u Pehe rock, is “First Cathedrals,” a popular SCUBA destination. Hulopo‘e Bay has large tidepools at its left point. A shallow reef is just offshore, providing excellent snorkeling opportunities. Pu‘u Pehe Cove has clear water and considerable marine life. Coral growth is interspersed with sand patches, and most coral is found away from the narrow beach in about 10 to 15 feet of water.</p>
<p>North Fork, St. Lucie Aquatic Preserve</p> <p>Florida</p>	<p>State Management: Florida Department of Environmental Protection</p>	<p>The North Fork, St. Lucie Aquatic Preserve contains various aquatic habitats such as riverine, blackwater stream, tidal marsh, slough, and floodplain forest communities. The headwaters of the North Fork are composed of freshwater from Ten Mile and Five Mile Creeks. Downstream, brackish conditions support tidal marshes with mangroves, leatherfern, and sawgrass.</p>
<p>Monomoy National Wildlife Refuge</p> <p>Massachusetts</p>	<p>Federal Management: Department of the Interior, U.S. Fish and Wildlife Service</p>	<p>Monomoy is comprised of 7,604 acres of barrier beach, sand dunes, freshwater ponds, and saltwater marshes. Monomoy provides habitat for hundreds of species of resting, feeding, and migratory birds. The refuge supports the largest nesting colony of common terns in the Gulf of Maine and second largest on the Atlantic Seaboard with close to 8,000 nesting pairs in 2001. Monomoy is the largest haul-out site of gray seals on the Atlantic Seaboard as well.</p>

\* Only the marine portion of the described areas are considered to be a part of the MPA; the terrestrial components, while a part of the larger management unit, are not considered to be part of the MPA.



some natural resources may move back and forth between distant countries. In recognition of these important international connections, section 4(a) of the Order calls on federal agencies to identify opportunities to improve “linkages with, and technical assistance to, international [MPA] programs.”

The United States shares a number of common resources with both neighboring and distant countries. For instance, migratory species (e.g., whales, sea turtles, pelagic fishes, and some birds) rely on the marine and coastal waters of multiple countries during various stages of their life. There are also a number of international law and policy issues regarding our underwater cultural heritage. For example, certain cultural resources that rest in the seabed of U.S. MPAs, such as sunken military craft and associated contents that have not been abandoned, retain their protected sovereign status and permanent right, title, and interest may be vested in the flag country.

Enhancing existing or establishing new linkages among systems in other countries can mutually benefit the United States and international MPAs through coordination of efforts, information and capacity sharing, and technical assistance. Along with sharing common resources, the United States also shares the consequences of potentially harmful activities occurring outside of U.S. waters, including pollution, over-harvesting of marine resources, and degradation of associated habitats. By coordinating with international MPA programs, the United States can minimize the harmful impacts of external activities and maximize the benefits of MPAs.

For U.S. MPAs, important international linkages include, but are not limited to, those relating to Canada, Mexico, and Russia, as well as those amongst multiple countries in the Arctic, Pacific Islands, and Caribbean. Several legal mechanisms, such as bi-lateral and multi-lateral agreements and treaties, exist to address many of these resource management issues. For example, the International Maritime Organization’s Particularly Sensitive Sea Areas program and the Wider Caribbean Protocol Concerning Specially Protected Areas and Wildlife are two MPA-related international efforts of significance. The MPA Center and/or its federal partners are actively involved in a number of such efforts, including the Commission on Environmental Cooperation’s development of a North American MPA Network (NAMPAN) and the exchange of training and technical assistance with other nations. The national system can facilitate a dialogue and develop collaborative efforts between the United States and other countries to complement and support the work of MPA programs.

## APPENDIX C. PROGRAMMATIC ENVIRONMENTAL ASSESSMENT

### ***Lead Agency:***

Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service

### ***Cooperating Agency:***

Department of the Interior, National Park Service



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**Purpose and Need for this Programmatic Environmental Assessment**

The purpose of this Programmatic Environmental Assessment (PEA) is to fulfill the requirements of Executive Order (EO) 13158, which are to develop, design and build a National System of Marine Protected Areas (MPAs).

***Executive Order 13158 on MPAs***

Executive Order 13158 on Marine Protected Areas (2000) calls on the Department of Commerce and the Department of the Interior (DOI), in consultation with other federal agencies and stakeholders, to develop a national system of marine protected areas (MPAs) to enhance the conservation of the nation's natural and cultural marine heritage. The Executive Order created the National Marine Protected Areas Center (MPA Center) within the National Oceanic and Atmospheric Administration (NOAA) to coordinate this effort. The mission of the MPA Center is to facilitate the effective use of science, technology, training, and information in the planning, management, and evaluation of the nation's system of marine protected areas.

***The National System of MPAs***

Currently, nearly 1,700 marine areas have been identified in the United States (U.S.). These areas are managed under the authority of hundreds of federal, state and territorial (state), tribal, and local laws and regulations. Familiar examples of MPAs include national and state marine sanctuaries, parks, wildlife refuges, and some fishery management areas. This patchwork of protected areas is an important component of the nation's marine conservation mission, but would be greatly enhanced by the improved coordination and integration across sites and MPA programs that a national system will provide.

The National System of MPAs (national system) will be built collaboratively by existing MPA sites and systems through partnerships at the ecosystem, regional, and national levels. The national system will focus on supporting shared priorities for enhancing coordination and stewardship of partner MPA sites and systems in order to improve effectiveness. The national system may ultimately include some new areas vital to the conservation of significant natural and cultural marine resources. These may be identified by national system partners through regional planning or other processes, and will be based on the best available science and stakeholder involvement.

Any new MPAs would need to be designated through an existing federal, state, tribal, or local authority, as the Executive Order provides no authority to create new MPAs.

***Need for Action***

The Executive Order calls on the MPA Center to develop a Framework for the national system (Framework). The first draft was published for public comment in September 2006, and was

revised after due consideration of comments and recommendations received. A second draft was published for an additional round of public comment during March-May 2008, and again has been revised with consideration of input received. This PEA has also been revised based on comments received during the 2006-2008 comment period.

The purpose of the Framework is to serve as a “road map” for developing the national system that will specify a common vision, and common goals, objectives, and criteria for the national system, as well as the process for partnerships among federal, state, tribal, and local government agencies and stakeholders to develop it. While the Executive Order and the Framework document are non-regulatory, the MPA Center developed this PEA to provide federal and state agencies, tribes, and other stakeholders with the best available information on the potential impacts of the Framework document during its two public comment periods.

### ***Scope of this Analysis***

This PEA considers the programmatic environmental consequences of proposing the Framework. As previously described, the Framework itself only lays out a strategic process to achieve a national system of MPAs. The Framework itself does not propose any new MPAs, nor does it create or recommend any new authority under which they may be designated.

The consideration of designating additional MPAs or expanding existing MPAs will occur solely at the discretion of the state, federal, tribal, and local agencies which have the authority to develop different MPAs to fulfill their own missions and implement the national system. As such, any potential site-specific environmental, economic, and social impacts cannot be meaningfully analyzed until these agencies consider individual MPA proposals under their own authorities. Therefore, the potential effects of any detailed regional, state, or local MPA alternatives proposed by a federal agency under this Framework would be further analyzed under NEPA at the time they are proposed, including in environmental assessments tiered from this PEA as appropriate.

## **Description of Proposed Action and Alternatives**

### ***Alternatives Considered, but Rejected***

In considering alternatives for proposing the Framework, the following three were selected as constituting a reasonable range of alternatives for this PEA: “Alternative A: Take No Action,” “Alternative B: Propose the Draft Framework for Developing the National System of Marine Protected Areas” and “Alternative C: Propose the Framework for the National System of Marine Protected Areas of the United States of America.” Numerous other possible alternatives were, however, considered by NOAA for analysis, but ultimately rejected. For example, a wide range of alternatives would have resulted from all the possible permutations of changes in the Framework’s approach to meeting the various requirements of the MPA Executive Order. Several factors led to the determination that the approach of analyzing a wide range of many potential alternatives should be rejected.

First, the Framework lays out a series of processes for U.S. MPA programs, managing entities, authorities, and other stakeholders around the country to work together to determine eligible MPAs and the most appropriate, specific approaches for developing the national system. Because the Framework is focused on managing entity and stakeholder processes to determine specific approaches and actions, the environmental consequences of these permutations cannot be predicted to be significantly different than Alternative C.



Second, and most important, the processes outlined in the elements of the Framework are based on input received from consultations with and recommendations from MPA stakeholders around the country, including the MPA Federal Advisory Committee, as required by the Executive Order. Creating a range of alternatives that are either independent of these consultations or consider only some of the recommendations received would not meet the requirements of the Executive Order.

Therefore, having considered additional alternatives for proposing the Framework for the national system, NOAA has determined that the three alternatives described below constitute a reasonable and practical range of alternatives for assessing the anticipated environmental consequences of fulfilling the need to develop the Framework.

***Alternative A: Take No Action***

Under this alternative, NOAA would not propose a Framework as required by the MPA Executive Order. The MPA Executive Order would stand alone without any further detail of the processes necessary for developing the national system. There would be no description of processes for identifying and including existing MPAs in the national system, working with MPA programs to collaboratively identify and address common stewardship needs, or identifying place-based gaps in protection.

***Alternative B: Propose the Draft Framework for Developing the National System of Marine Protected Areas***

NOAA proposed the first draft of the Framework published in September 2006. As noted by the MPA Federal Advisory Committee and many public comments, this draft document lacked a strategic focus to describe how the national system would target priority conservation objectives; lacked design and implementation principles to guide development of the system; and provided only a minimal description of how the national system would be coordinated and conduct gap analyses on a regional basis.

***Alternative C: Propose the Framework for the National System of Marine Protected Areas of the United States of America (Preferred)***

This alternative would fulfill the directive of the MPA Executive Order to develop a Framework. The Framework provides guidance for developing the national system and therein implementing key elements of the Executive Order. The full descriptions of the proposed national system elements and associated processes are contained in the Framework and summarized here as:

- Summary of authority for developing the Framework and national system.
- Overview of key U.S. MPA programs and related initiatives.
- Key definitions for developing the national system.
- Goals and objectives for the national system.
- Sequence and steps for implementing the Framework.
- Process for identifying, nominating, and including MPAs in the national system.

- Options for building collaborative efforts to enhance stewardship and regional coordination of MPAs.
- Process for identifying conservation gaps in the national system.
- Maintenance of the official List of National System MPAs.
- Process for implementing the “avoid harm” provision.
- Options for evaluating effectiveness of the national system.
- Mechanisms for tracking and reporting national system progress and priorities.

## **Description of Affected Environment**

The geographic extent of the Framework and the nation’s existing MPAs that it aims to support span the United States’ territorial waters and Exclusive Economic Zone waters of the Pacific Ocean, including the Bering Sea; Atlantic Ocean, including the Gulf of Mexico and Caribbean Sea; Arctic Ocean; and the Great Lakes. This environment encompasses the entire range of the nation’s marine ecosystems, including their natural heritage, cultural heritage, and sustainable production resources and functions, goods, and services. The following are general descriptions of five valued environmental components that may be affected programmatically by the Framework. More detailed descriptions of specific affected environments will be given in future tiered analyses based on future consideration of MPAs which may occur under the authority of individual state, federal, tribal, and local agencies.

### ***Natural Heritage Resources***

The nation’s existing MPAs, whether managed by federal, state, tribal, or an inter-governmental collaboration of entities help to conserve and restore the wealth of U.S. natural marine environments, including but not limited to, kelp forests, warm and cold water coral reefs, rocky intertidal areas, offshore banks and seamounts, estuarine areas, the Great Lakes waters, deep sea vents, and sand and mud flats. In these marine environments, MPAs play an important role in protecting the significant natural biological communities, endangered and threatened species, habitats, ecosystems, processes, and the ecological services, uses, and values they provide to this and future generations. These various components of the nation’s marine environment are critical to maintaining the integrity and health of marine and coastal ecosystems. Oftentimes managing for one of these elements means protecting the others. For example, to effectively manage endangered or threatened species, the habitat they rely upon must also be protected.

### ***Sustainable Production Resources***

Existing U.S. MPAs are also designed and established with the intent to help ensure the sustainability of the renewable living resources and their habitats, including, but not limited to, spawning, mating, and nursery grounds, and areas established to minimize bycatch of species that are important to the nation’s economy and the livelihoods and subsistence needs of its citizens. MPAs can help to sustain commercial and recreational fisheries by controlling fishing effort, protecting critical stages in the life history of fishery species, conserving genetic diversity of exploited species, reducing secondary impacts of fishing on essential fish habitat and other species, and ensuring against fisheries collapse (Murray et al. 1999; NRC, 2001). MPAs may allow site-





specific regulation of selected species, selected gear types, or fishing methods. Certain MPAs or zones within MPAs may be fishery reserves that protect all or nearly all species from fishing. Many studies indicate that abundance and size of target species increase in marine protected areas that limit extractive use (Dugan and Davis, 1993; Crowder et al., 2000; Halpern, 2003).

### ***Cultural Heritage Resources***

The nation's existing MPAs preserve and protect important cultural resources. These cultural resources reflect the nation's maritime history and traditional cultural connections to the sea, as well as the uses and values they provide to this and future generations. Examples include archeological sites that contain significant cultural artifacts; sunken historic ships, aircraft, or other vessels; and areas important to specific cultures. Protecting cultural resources in MPAs reduces the chance that artifacts will be removed or damaged from modern-day commercial or recreational activities. Unlike many biological communities that have some level of resilience to recover from degradation, once cultural sites are damaged, the information and value of these non-renewable resources may be lost forever. MPAs are an important tool for conserving cultural resources by monitoring the environment for change and stabilizing deteriorating structures. MPAs also encourage actions to find, preserve, and interpret the associated artifacts that may otherwise be inaccessible to the public. By protecting marine sites that are important to the nation's diverse cultures, existing U.S. MPAs preserve a part of history for future generations.

### ***Current Governmental Management Structure***

The past several decades have witnessed a dramatic increase in the use of MPAs as a conservation and management tool to protect the nation's most important natural and cultural marine resources and areas. Over 90 percent of U.S. MPAs were established after 1970 (National MPA Center Marine Protected Area Inventory, 2008). The growth in MPAs has not only resulted in increased protections to certain natural and cultural marine resources, but also brought about a significant number of new MPA programs and authorities at all levels of government, each with their own requirements, levels of protection, and associated terms.

These programs and the MPA sites that they manage are components of a complex sociopolitical landscape that features diverse institutions, governance structures, and processes. They include, for example, federal programs such as the National Marine Sanctuaries and National Parks; tribal MPA authorities and co-management arrangements with states; state programs such as fish and wildlife, coastal zone management, and historic preservation; and other governmental approaches to MPAs.

Each of these programs has its own mandate it is required to fulfill. These mandates often overlap in both geographic scope and the conservation purposes for which they were established. In addition, while many existing MPA programs comprise a system of MPAs, there are a limited number of mechanisms in place to coordinate MPA efforts across ecosystem, regional, national, or international levels among MPA programs and levels of government. This is not to say that no such coordination is happening. In fact, there are a number of good examples of existing MPA sites and programs in a common geography working together, which serve as excellent models. However, there is no overarching MPA framework for facilitating and promoting such coordination across levels of government and at an ecosystem or regional scale around the nation. Similarly, the effectiveness of the existing

suite of MPAs in contributing to the long-term sustainability of important resources, habitats and ecosystems, and the services and values they provide, is largely yet to be determined.

### ***Social, Economic and Cultural Benefits***

MPAs in the United States and its territories provide social, economic, and cultural benefits by protecting resources and environments. These benefits come in many forms, both tangible and intangible and direct and indirect. Direct, tangible benefits may include supporting the socioeconomic well-being of communities tied to our nation's fisheries by enhancing stocks for sustainable harvest and recreational opportunities. These communities provide significant inputs to the U.S. economy and many have long and storied historical connections to the marine environment. MPAs that ensure sustainable production have the intangible benefit of promoting cultural continuity and identity, which is instrumental in maintaining healthy communities.

By protecting key resources and habitats, MPAs can also promote greater economic returns from tourism through enhanced visitor experiences. These direct economic benefits are inextricably linked with the intangible quality of visitor experience. Good water quality, abundant living resources, and scenic, aesthetic ocean environments attract visitors to coastal areas around the globe. These visitors engage in diverse activities that include non-extractive uses of the marine environment, such as scuba diving, snorkeling, wildlife watching, boating, and surfing, as well as extractive uses such as fishing. All of these activities rely on healthy marine environments. U.S. MPAs help ensure that marine environments will continue to draw the visitors that have become critical to many coastal economies. For example, in Monroe County, Florida, location of the Florida Keys National Marine Sanctuary and other marine-related parks and wildlife refuges, the estimated total tourist contribution to the economy (1995-1996) is over 60 percent (English et al., 1996).

MPAs also provide direct, tangible benefits by providing opportunities for research and education. Certain MPAs feature academic and applied monitoring of short-term events and long-term environmental trends, as well as biomedical research (Salm et al, 2000).

MPAs can provide hands-on experience and outdoor laboratories for bringing classroom studies to life. MPA educational programs have the potential to promote public awareness of the importance of marine ecosystems and their many benefits.

MPAs also protect historic connections to our nation's heritage that are critical to social and cultural continuity. People and communities are connected to marine resources, including both natural and cultural features. These connections are affirmed through direct practice, oral and written narrative, and everyday discourse. MPAs can enhance cultural connectivity to places by ensuring their protection for future generations, allowing traditional cultural practices, promoting awareness of our nation's heritage, and acknowledging existence and bequest values inherent in marine resources.

### **Environmental Consequences of Proposed Action and Alternatives**

As previously noted, the Framework only provides a strategic process for establishing the National System of MPAs, rather than proposing any specific action itself. Therefore, at a programmatic level, the environmental consequences of the proposed action and alternatives are negligible.



The specific environmental, economic, social, and cumulative impacts of proposed new or expanded MPAs later proposed by a federal agency under this Framework would be further analyzed under NEPA at the time they are proposed, including in environmental assessments tiered from this PEA as appropriate.

### ***Alternative A: Take No Action***

#### ***Environmental Impacts***

Taking no action would result in no predictable direct or indirect environmental impacts, either positive or negative. The ‘Take No Action’ alternative would not allow for the realization of the benefits expected from the proposed Framework’s greater integration and coordination of conservation efforts among existing authorities and sites.

#### ***Socioeconomic Impacts***

Taking no action would result in no predictable direct socioeconomic impacts, either positive or negative. The ‘Take No Action’ alternative would not allow for the realization of the benefits expected from the proposed Framework’s greater integration and coordination of conservation efforts among existing authorities and sites.

### ***Alternative B: Propose the Draft Framework for Developing the National System of Marine Protected Areas***

#### ***Environmental Impacts***

The Draft Framework would not be expected to result in adverse impacts on the environment. The Draft Framework proposed to coordinate the activities among federal, state, tribal, and local MPA sites and systems to reduce administrative costs and promote efficiency and the effective use of existing management infrastructure for marine resource protection. However, because of the lack of a strategic focus within this alternative, the expected beneficial long-term environmental impacts and improved quality of the nation’s marine resources would not be as great as those under Alternative C.

#### ***Socioeconomic Impacts***

Similar to Alternative C, the proposed Draft Framework would not be expected to result in adverse socioeconomic impacts. However, because of the lack of focused design and implementation principles, and a clear vision for regional coordination, there is less potential, relative to Alternative C, for long-term positive socioeconomic impacts from promoting integration among government authorities, enhancing knowledge and awareness of MPAs as a tool of ecosystem-based management, and supporting processes for incorporating stakeholders and communities in ecosystem management.

### ***Alternative C: Propose the Framework for the National System of Marine Protected Areas of the United States of America (Preferred)***

#### ***Environmental Impacts***

The Framework is not expected to result in adverse impacts on the environment. The Framework proposes to coordinate the activities among federal, state, tribal, and local MPA

sites and systems to reduce administrative costs and promote efficiency and the effective use of existing management infrastructure for marine resource protection.

Implementation of the Framework provides opportunities for shared information, resources, scientific expertise, and lessons learned for individual MPAs. The proposed Framework mostly involves a number of low or no impact activities that will positively affect the stewardship and management of individual MPAs and ultimately lead to beneficial long-term environmental impacts and improved quality of the nation's marine resources relative to Alternative A. Additional environmental analysis of future activities, as required under the National Environmental Policy Act (NEPA) and other acts and executive orders, would be prepared as necessary by the relevant entity or entities taking any such actions.

The Framework also promotes activities over time to identify gaps in protection of important marine resources and subsequent area-based conservation priorities that would be needed to manage and protect those resources. This component of the Framework is similarly comprised of a number of low or no impact activities that ultimately could lead to beneficial long-term environmental impacts relative to Alternative A. In order to realize these benefits, however, actions to implement new or increased protections would be needed. Activities taken by individual entities in the future, such as changes in MPA regulations or the establishment of new MPAs as a result of the implementation of the proposed Framework will undergo separate NEPA analysis by entities taking such actions as required and appropriate.

### ***Socioeconomic Impacts***

The proposed Framework is not expected to result in adverse socioeconomic impacts. The Framework provides guidance for the implementation of the national system. It does not establish new MPAs or directly affect the stewardship and management, including human uses and values, associated with existing MPAs. The socioeconomic impacts of, for example, the long-term cumulative effects of developing the national system will be assessed as necessary under NEPA and other federal mandates for specific actions taken by those entities or programs with the authority to establish and manage MPAs and/or alter MPA regulations.

In proposing to integrate the activities and conservation objectives among the various authorities, the Framework will have its most immediate effects upon the communication and organizational structures across the various levels of MPA governance. As a result, there is great potential, relative to Alternative A, for long-term positive socioeconomic impacts from promoting integration among government authorities, enhancing knowledge and awareness of MPAs as a tool of ecosystem-based management, and supporting processes for incorporating stakeholders and communities in ecosystem management.

Furthermore, the implementation of the national system as proposed by the Framework will have long-term positive impacts, relative to Alternative A, for participating MPA sites, their associated marine resources, and the wider ecosystems of which they are a part. The national system will seek to integrate natural heritage, cultural heritage, and sustainable production objectives in order to minimize adverse socioeconomic impacts and promote comprehensive MPA conservation and management. It will focus on improving the effectiveness of MPA design, management, and evaluation through dissemination and use of the best available science and tools.



Additional socioeconomic analysis as required under NEPA and other acts and executive orders, would be prepared by the relevant entity or entities as necessary for future specific actions.

### ***Cumulative Effects***

The Council on Environmental Quality regulations (40 CFR 1508.8) define cumulative effects as “impacts on the environment that result from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such actions.” At a programmatic level, the integration and coordination of federal, state, local and tribal agencies to improve MPA conservation and management are anticipated to have no significant adverse cumulative impact to environmental or socioeconomic resources. Relative to Alternative A, the proposed action has beneficial cumulative impacts to the resources that the National System of MPAs will protect. At a programmatic level, socioeconomic impacts are anticipated to be negligible (see above). Future tiered analyses on specific alternatives and resources will occur as entities consider future actions which fall under this Framework.

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### **Finding of No Significant Impact**

The Council on Environmental Quality (CEQ) Regulations state that the determination



of significance using an analysis of effects requires examination of both context and intensity, and lists ten criteria for intensity (40 CFR 1508.27). In addition, the National Oceanic and Atmospheric Administration Administrative Order (NAO) 216-6 Section 6.01b. 1 - 11 provides eleven criteria, including the same ten as the CEQ Regulations and one additional, for determining whether the impacts of a proposed action are significant. Each criterion is discussed below with respect to the proposed action and considered individually as well as in combination with the others.

**1. Can the proposed action reasonably be expected to cause both beneficial and adverse impacts that overall may result in a significant effect, even if the effect will be beneficial?**

NOAA expects the implementation of the proposed Framework will result in a number of activities that will positively affect the stewardship and management of individual MPAs and ultimately lead to beneficial long-term environmental impacts and improved quality of the nation's marine resources. The specific environmental, economic, social, and cumulative impacts of any proposed new or expanded MPAs later proposed by a federal agency under this Framework would be further analyzed as required by NEPA at the time they are proposed.

**2. Can the proposed action reasonably be expected to significantly affect public health or safety?**

No negative impacts to public health or safety are associated with these activities.

**3. Can the proposed action reasonably be expected to result in significant impacts to unique characteristics of the geographic area, such as proximity to historic or cultural resources, park lands, prime farmlands, wetlands, wild and scenic rivers, or ecologically critical areas?**

The Framework for the national system will not have significant adverse impacts on the areas listed above. It will provide a mechanism for coordination among existing marine protected areas, including those that protect significant natural and cultural marine resources. The Framework is expected to enhance the effectiveness of participating MPAs in contributing to national conservation objectives, such as the protection of spawning and nursery areas or the conservation of resources listed on the National Register of Historic Places.

**4. Are the proposed action's effects on the quality of the human environment likely to be highly controversial?**

While individual MPAs are often a contentious subject, the effects of the proposed Framework on the human environment are not likely to be controversial. The actions and activities associated with the various components of the Framework focus on promoting coordination, collaboration, opportunities for stakeholder input, and enhancing scientific understanding in support of the effective use of MPAs. These activities largely have little or no impact on the human environment, but are envisioned to positively affect the stewardship and management of individual MPAs and ultimately lead to beneficial long-term impacts on the human environment and improved quality of the nation's marine resources.

**5. Are the proposed action's effects on the human environment likely to be highly uncertain or involve unique or unknown risks?**

The Framework's effects are not expected to involve unique or unknown risks. Work will focus on enhancing coordination; sharing best management practices, technologies and science; and establishing conservation partnerships across all levels of government and with stakeholders.



**6. Can the proposed action reasonably be expected to establish a precedent for future actions with significant effects or represent a decision in principle about a future consideration?**

The Framework does not establish a precedent for future actions with significant effects. Regional conservation gap analyses will identify ecologically and culturally significant areas that may require additional protection. However, the Framework does not have any authority to establish a new MPA or another type of protection for these areas. Any additional protection would be provided under existing federal, state, local or tribal laws, and would be subject to the required review processes under the respective authority.

**7. Is the proposed action related to other actions that when considered together will have individually insignificant but cumulatively significant impacts?**

The activities associated with the proposed Framework largely have little or no impact on the human environment, but are envisioned to positively affect the stewardship and management of individual MPAs and ultimately lead to beneficial long-term impacts on the human environment and improved quality of the nation's marine resources. By providing the first national geospatial database of MPAs across all levels of government, the national system will provide an opportunity to better understand the cumulative effectiveness of existing MPAs and to identify opportunities for collaboration. The cumulative effects of specific MPAs that may be proposed under the Framework will be analyzed in the NEPA analysis prepared for that proposed action.

**8. Can the proposed action reasonably be expected to adversely affect districts, sites, highways, structures, or objects listed in or eligible for listing in the National Register of Historic Places or may cause loss or destruction of significant scientific, cultural, or historical resources?**

The Framework will not adversely affect any of the aforementioned areas. It will benefit significant scientific, cultural and historical resources and areas listed in or eligible for listing in the National Register of Historic Places, as the protection of these areas is included in the goals and objectives of the national system.

**9. Can the proposed action reasonably be expected to have a significant impact on endangered or threatened species, or their critical habitat as defined under the Endangered Species Act of 1973?**

The Framework will not adversely affect endangered or threatened species or their critical habitat. The conservation of critical habitat for threatened and endangered species is an objective of the national system. The national system will provide tools for analyzing and mapping existing protected areas that contribute to the conservation of threatened and endangered species, as well as gaps in the protection of critical habitat where new MPAs may be needed.

**10. Can the proposed action reasonably be expected to threaten a violation of Federal, state, or local law or requirements imposed for environmental protection?**

The Framework will not threaten any violation of Federal, state, or local law or requirements for environmental protection.

**11. Can the proposed action reasonably be expected to result in the introduction or spread of a nonindigenous species?**

The Framework will not result in the introduction or spread of any nonindigenous species. By providing a mechanism for regional coordination, it will help MPAs develop shared strategies and partnerships to prevent and contain the impacts of nonindigenous species.

***List of Preparers and Agencies Consulted***

Department of Commerce, National Oceanic and Atmospheric Administration  
Department of the Interior, National Park Service

**APPENDIX D. EXECUTIVE ORDER 13158**

***Executive Order 13158***

***Presidential Documents***

***Executive Order 13158 of May 26, 2000***

***Marine Protected Areas***

By the authority vested in me as President by the Constitution and the laws of the United States of America and in furtherance of the purposes of the National Marine Sanctuaries Act (16 U.S.C. 1431 et seq.), National Wildlife Refuge System Administration Act of 1966 (16 U.S.C. 668dd-ee), National Park Service Organic Act (16 U.S.C. 1 et seq.), National Historic Preservation Act (16 U.S.C. 470 et seq.), Wilderness Act (16 U.S.C. 1131 et seq.), Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. 1801 et seq.), Coastal Zone Management Act (16 U.S.C. 1451 et seq.), Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.), Marine Mammal Protection Act (16 U.S.C. 1362 et seq.), Clean Water Act of 1977 (33 U.S.C. 1251 et seq.), National Environmental Policy Act, as amended (42 U.S.C. 4321 et seq.), Outer Continental Shelf Lands Act (42 U.S.C. 1331 et seq.), and other pertinent statutes, it is ordered as follows:

Section 1. Purpose. This Executive Order will help protect the significant natural and cultural resources within the marine environment for the benefit of present and future generations by strengthening and expanding the Nation's system of marine protected areas (MPAs). An expanded and strengthened comprehensive system of marine protected areas throughout the marine environment would enhance the conservation of our Nation's natural and cultural marine heritage and the ecologically and economically sustainable use of the marine environment for future generations. To this end, the purpose of this order is to, consistent with domestic and international law: (a) strengthen the management, protection, and conservation of existing marine protected areas and establish new or expanded MPAs; (b) develop a scientifically based, comprehensive national system of MPAs representing diverse U.S. marine ecosystems, and the Nation's natural and cultural resources; and (c) avoid causing harm to MPAs through federally conducted, approved, or funded activities.



Sec. 2. Definitions. For the purposes of this order:

- a. “Marine protected area” means any area of the marine environment that has been reserved by Federal, State, territorial, tribal, or local laws or regulations to provide lasting protection for part or all of the natural and cultural resources therein.
- b. “Marine environment” means those areas of coastal and ocean waters, the Great Lakes and their connecting waters, and submerged lands thereunder, over which the United States exercises jurisdiction, consistent with international law.
- c. The term “United States” includes the several States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands of the United States, American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands.

Sec. 3. MPA Establishment, Protection, and Management. Each Federal agency whose authorities provide for the establishment or management of MPAs shall take appropriate actions to enhance or expand protection of existing MPAs and establish or recommend, as appropriate, new MPAs. Agencies implementing this section shall consult with the agencies identified in subsection 4(a) of this order, consistent with existing requirements.

Sec. 4. National System of MPAs. (a) To the extent permitted by law and subject to the availability of appropriations, the Department of Commerce and the Department of the Interior, in consultation with the Department of Defense, the Department of State, the United States Agency for International Development, the Department of Transportation, the Environmental Protection Agency, the National Science Foundation, and other pertinent Federal agencies shall develop a national system of MPAs. They shall coordinate and share information, tools, and strategies, and provide guidance to enable and encourage the use of the following in the exercise of each agency’s respective authorities to further enhance and expand protection of existing MPAs and to establish or recommend new MPAs, as appropriate:

1. science-based identification and prioritization of natural and cultural resources for additional protection;
2. integrated assessments of ecological linkages among MPAs, including ecological reserves in which consumptive uses of resources are prohibited, to provide synergistic benefits;
3. a biological assessment of the minimum area where consumptive uses would be prohibited that is necessary to preserve representative habitats in different geographic areas of the marine environment;
4. an assessment of threats and gaps in levels of protection currently afforded to natural and cultural resources, as appropriate;
5. practical, science-based criteria and protocols for monitoring and evaluating the effectiveness of MPAs;
6. identification of emerging threats and user conflicts affecting MPAs and appropriate,

practical, and equitable management solutions, including effective enforcement strategies, to eliminate or reduce such threats and conflicts;

7. assessment of the economic effects of the preferred management solutions; and

8. identification of opportunities to improve linkages with, and technical assistance to, international marine protected area programs.

- b. In carrying out the requirements of section 4 of this order, the Department of Commerce and the Department of the Interior shall consult with those States that contain portions of the marine environment, the Commonwealth of Puerto Rico, the Virgin Islands of the United States, American Samoa, Guam, and the Commonwealth of the Northern Mariana Islands, tribes, Regional Fishery Management Councils, and other entities, as appropriate, to promote coordination of Federal, State, territorial, and tribal actions to establish and manage MPAs.
- c. In carrying out the requirements of this section, the Department of Commerce and the Department of the Interior shall seek the expert advice and recommendations of non-Federal scientists, resource managers, and other interested persons and organizations through a Marine Protected Areas Federal Advisory Committee. The Committee shall be established by the Department of Commerce.
- d. The Secretary of Commerce and the Secretary of the Interior shall establish and jointly manage a website for information on MPAs and Federal agency reports required by this order. They shall also publish and maintain a list of MPAs that meet the definition of MPA for the purposes of this order.
- e. The Department of Commerce's National Oceanic and Atmospheric Administration shall establish a Marine Protected Area Center to carry out, in cooperation with the Department of the Interior, the requirements of subsection 4(a) of this order, coordinate the website established pursuant to subsection 4(d) of this order, and partner with governmental and nongovernmental entities to conduct necessary research, analysis, and exploration. The goal of the MPA Center shall be, in cooperation with the Department of the Interior, to develop a framework for a national system of MPAs, and to provide Federal, State, territorial, tribal, and local governments with the information, technologies, and strategies to support the system. This national system framework and the work of the MPA Center is intended to support, not interfere with, agencies' independent exercise of their own existing authorities.
- f. To better protect beaches, coasts, and the marine environment from pollution, the Environmental Protection Agency (EPA), relying upon existing Clean Water Act authorities, shall expeditiously propose new science-based regulations, as necessary, to ensure appropriate levels of protection for the marine environment. Such regulations may include the identification of areas that warrant additional pollution protections and the enhancement of marine water quality standards. The EPA shall consult with the Federal agencies identified in subsection 4(a) of this order, States, territories, tribes, and the public in the development of such new regulations.





Sec. 5. Agency Responsibilities. Each Federal agency whose actions affect the natural or cultural resources that are protected by an MPA shall identify such actions. To the extent permitted by law and to the maximum extent practicable, each Federal agency, in taking such actions, shall avoid harm to the natural and cultural resources that are protected by an MPA. In implementing this section, each Federal agency shall refer to the MPAs identified under subsection 4(d) of this order.

Sec. 6. Accountability. Each Federal agency that is required to take actions under this order shall prepare and make public annually a concise description of actions taken by it in the previous year to implement the order, including a description of written comments by any person or organization stating that the agency has not complied with this order and a response to such comments by the agency.

Sec. 7. International Law. Federal agencies taking actions pursuant to this Executive Order must act in accordance with international law and with Presidential Proclamation 5928 of December 27, 1988, on the Territorial Sea of the United States of America, Presidential Proclamation 5030 of March 10, 1983, on the Exclusive Economic Zone of the United States of America, and Presidential Proclamation 7219 of September 2, 1999, on the Contiguous Zone of the United States.

Sec. 8. General.

- a. Nothing in this order shall be construed as altering existing authorities regarding the establishment of Federal MPAs in areas of the marine environment subject to the jurisdiction and control of States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands of the United States, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and Indian tribes.
- b. This order does not diminish, affect, or abrogate Indian treaty rights or United States trust responsibilities to Indian tribes.
- c. This order does not create any right or benefit, substantive or procedural, enforceable in law or equity by a party against the United States, its agencies, its officers, or any person.

(Presidential Sig.) William J. Clinton  
THE WHITE HOUSE,  
May 26, 2000.

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## APPENDIX E. MPA FAC AND EX OFFICIO MEMBERS, AND THE FEDERAL MPA INTERAGENCY WORKING GROUP

### CURRENT MEMBERS OF THE MPA FEDERAL ADVISORY COMMITTEE

#### *CHAIR*

Dr. Mark Hixon, Professor, Department of Zoology, Oregon State University

#### *VICE-CHAIR*

Mr. Robert Zales, II, Owner, Bob Zales Charters

#### *MEMBERS*

Ms. Lori Arguelles, President and CEO, National Marine Sanctuaries Foundation

Mr. Charles D. Beeker, Director, Office of Underwater Science, School of Health, Physical Education and Recreation, Indiana University

Mr. David Benton, Benton & Associates

Dr. Daniel Bromley, Professor, Department of Agricultural and Applied Economics, University of Wisconsin

Dr. Anthony Chatwin, Marine Conservation Planner, The Nature Conservancy

Mr. Rick Gaffney, Pacific Boats and Yachts

Dr. Steve Gaines, Professor, Ecology, Evolution and Marine Biology, University of California, Santa Barbara

Ms. Ellen Goethel, Co-Owner, “Ellen Diane” / Ocean Educator

Dr. Dennis Heinemann, Senior Scientist, The Ocean Conservancy

Mr. George Lapointe, Commissioner, Maine Department of Marine Resources

Mr. Victor T. Mastone, Director and Chief Archeologist, Massachusetts Board of Underwater Archaeological Resources

Ms. Melissa Miller-Henson, Program Manager, California Marine Life Protection Act Initiative

Dr. Russell Moll, Director, California Sea Grant College Program, University of California, San Diego

Dr. Elliott Norse, President, Marine Conservation Biology Institute



Dr. John Ogden, Director and Professor, Florida Institute of Oceanography, University of South Florida

Mr. Terry O'Halloran, Hawaii Superferry, Tourism Business Solutions, LLC

Mr. Alvin D. Osterback, Port Director, City of Unalaska/Port of Dutch Harbor

Dr. Walter Pereyra, Chairman, Arctic Storm Management Group, Inc.

Mr. Eugenio Piñeiro-Soler, Chairman, Caribbean Fishery Management Council

Dr. Robert S. Pomeroy, Sea Grant Fisheries Specialist, Connecticut Sea Grant Office, University of Connecticut at Avery Point

Mr. Gilbert Radonski, Fisheries Consultant, Former President, Sport Fishing Institute

Mr. James P. Ray, President, Oceanic Environmental Solutions, LLC

Captain Philip G. Renaud, USN (Ret.), Executive Director, Living Oceans Foundation

Mr. Jesús C. Ruiz, President, California Divers

Mr. Bruce A. Tackett, Manager, Legislative and Regulatory Issues, ExxonMobil Biomedical Sciences, Inc.

Mr. David H. Wallace, Owner, Wallace and Associates

Mr. Robert Wargo, President, North American Submarine Cable Association, Marine Liaison Manager, AT&T

## **EX OFFICIO FEDERAL REPRESENTATIVES**

### ***Department of Commerce***

Ms. Laura Furgione, Assistant Administrator for Program Planning and Integration, NOAA

### ***Department of the Interior***

Dr. Kaush Arha, Deputy Assistant Secretary for Fish and Wildlife and Parks, U.S. Department of the Interior

Designee: Mr. Randal Bowman, Office of the Assistant Secretary, Fish and Wildlife and Parks, U.S. Department of the Interior

### ***Department of Defense/Navy***

Mr. Donald Schregardus, Deputy Assistant Secretary of the Navy (Environment)

Designee: Capt. Robin Brake, Director, Marine Science, Office of the Assistant Secretary of the Navy (Installations and Environment)

***Department of Defense/Army Corps***

Mr. Joseph Wilson, U.S. Army Corps of Engineers, South Atlantic Division

***Department of Homeland Security***

Rear Admiral Wayne Justice, Assistant Commandant for Response, U.S. Coast Guard

Designee: LCDR Chris Barrows, Commandant (CG-3RPL-4), Chief, Fisheries and Marine Protected Species Law Enforcement, US Coast Guard

***U.S. Agency for International Development***

Ms. Jacqueline Schafer, Deputy Assistant Administrator, Bureau for Economic Growth, Agriculture and Trade

Designee: Dr. Barbara Best, Coastal Resources and Policy Advisor, Office of Natural Resources Management, Bureau for Economic Growth, Agriculture and Trade

***National Science Foundation***

Ms. Roxanne Nikolaus, Ocean Sciences Division

***Department of Agriculture***

Mr. Merlin Bartz, Office of the Under Secretary for Conservation, Natural Resources and the Environment

***Department of State***

Ms. Margaret F. Hayes, Director of the Office of Oceans Affairs, Bureau of Oceans and International Environmental and Scientific Affairs

***Environmental Protection Agency***

Dr. Brian Melzian, Oceanographer/Project Officer, U.S. Environmental Protection Agency, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division

***Designated Federal Official***

Ms. Lauren Wenzel, NOAA Ocean Service, National Marine Protected Area Center

**PAST MEMBERS OF THE MPA FAC*****MEMBERS***

Dr. Tundi Agardy, Executive Director, Sound Seas

Mr. Robert Bendick, Jr., Vice President, Southeast Division, The Nature Conservancy

Dr. Michael Cruickshank, President, Marine Minerals Technology Center Associates

Ms. Carol Dinkins, Partner, Vinson and Elkins Attorneys at Law

Dr. Rodney Fujita, Senior Scientist, Environmental Defense



Dr. Delores Garza, Professor, School of Fisheries and Ocean Sciences, University of Alaska

Mr. Eric Gilman, Marine Ecology and Fisheries Specialist, Blue Ocean Institute

Dr. John Halsey, State Archeologist, Michigan Historical Center, Michigan Department of History, Arts and Libraries

Dr. Bonnie McCay, Professor, Department of Human Ecology, Rutgers University

Mr. Melvin Moon, Jr., Director, Quileute Natural Resources Department

Mr. Robert Moran, Washington Representative, American Petroleum Institute

Dr. Steven Murray, Dean, College of Natural Sciences and Mathematics and Professor of Biological Science, California State University at Fullerton

Mr. Michael Nussman, President and CEO, American Sportfishing Association

Mr. Lelei Peau, Deputy Director, Department of Commerce of American Samoa

Mr. R. Max Peterson, Former Executive Vice President, International Association of Fish and Wildlife Agencies

Ms. Barbara Stevenson, Sellers Representative, Portland Fish Pier

Dr. Daniel Suman, Associate Professor, University of Miami

Mr. Thomas Thompson, Executive Vice President, International Council of Cruise Lines

Ms. H. Kay Williams, Member, Gulf of Mexico Fishery Management Council

Mr. Jim Woods, Sustainable Resources, Makah Fisheries Management

## **EX OFFICIO MEMBERS**

### ***Department of Commerce***

Ms. Mary M. Glackin, Deputy Under Secretary for Oceans and Atmosphere, NOAA

Dr. Paul Doremus, Acting Assistant Administrator, Program Planning and Integration, NOAA

### ***Department of the Interior***

Ms. Kameran Onley, Assistant Deputy Secretary, Office of the Deputy Secretary, U.S. Department of the Interior



***Department of Defense/Navy***

Designee: Mr. Thomas A. Egeland, Director, Environmental Planning and Conservation Policy, Office of the Assistant Secretary of the Navy (Installations and Environment)

***Department of Homeland Security***

Designee: LT Jeff Pearson, Deputy Chief, Marine Protected Species, Commandant (CG-3RPL-4), U.S. Coast Guard

**INTERAGENCY MARINE PROTECTED AREAS WORKING GROUP*****Department of Commerce/NOAA***

Mr. Joseph Uravitch (Chair), Director, National Marine Protected Areas Center

Dr. Mimi D'Iorio, Geographic Information System and Database Manager, National Marine Protected Areas Center

Ms. Rondi Robison, Conservation Planner, National Marine Protected Areas Center

Ms. Kara Schwenke, Communications Coordinator, National Marine Protected Areas Center

Dr. Charles Wahle, Senior Scientist, National Marine Protected Areas Center

Ms. Lauren Wenzel, Federal Agency Coordinator, National Marine Protected Areas Center

Ms. Heather Sagar, NOAA National Marine Fisheries Service

Ms. Laurie McGilvray, Director, Estuarine Reserves Division (National Estuarine Research Reserves)

Mr. Brad Barr, Senior Policy Advisor, National Marine Sanctuaries Program

Mr. Mitchell Tartt, National Marine Sanctuaries Program

***Department of Defense***

Capt. Robin Brake, Director, Marine Science, Office of the Assistant Secretary of the Navy (Installations and Environment)

Mr. Thomas A. Egeland, Director, Environmental Planning and Conservation Policy, Office of the Assistant Secretary of the Navy (Installations and Environment)

Ms. Elizabeth Phelps, Marine Scientist, Chief of Naval Operations, Operational Environmental Readiness and Planning

Ms. Lynn R. Martin, U.S. Army Corps of Engineers, Institute for Water Resources

Mr. Joseph Wilson, U.S. Army Corps of Engineers, South Atlantic Division



***Environmental Protection Agency***

Dr. Brian Melzian, U.S. Environmental Protection Agency, National Health and Environmental Effects Research laboratory, Atlantic Ecology Division

***Department of Homeland Security***

LCDR Chris Barrows, U.S. Coast Guard, Chief, Fisheries and Marine Protected Species Law Enforcement, U.S. Coast Guard Headquarters (CG-3RPL-4)

LCDR Chris German, U.S. Coast Guard, US Coast Guard Liaison, NOAA, Office for Law Enforcement

***Department of the Interior***

Mr. Randal Bowman, Office of the Assistant Secretary, Parks and Fish and Wildlife, U.S. Department of the Interior

Ms. Elizabeth Burkhard, Marine Biologist, Minerals Management Service

Mr. Cliff McCreedy, Marine Management Specialist, Natural Resource Stewardship and Science, National Park Service

Mr. Andrew G. Gude, Program Specialist, Refuge Marine Programs, U.S. Fish and Wildlife Service

***National Science Foundation***

Ms. Roxanne Nikolaus, Ocean Sciences Division

***Department of State***

Ms. Margaret F. Hayes, Director of the Office of Oceans Affairs, Bureau of Oceans and International Environmental and Scientific Affairs

Dr. Winnie Lau, AAAS Science and Technology Fellow/Marine Science Officer, Office of Oceans Affairs, Bureau of Oceans and International Environmental and Scientific Affairs

Dr. Justin Grubich, Marine Science Officer, Office of Ocean Affairs, Bureau of Oceans and International Environmental and Scientific Affairs

***U.S. Agency for International Development***

Dr. Barbara Best, Coastal Resources and Policy Advisor, Office of Natural Resources Management, Bureau for Economic Growth, Agriculture and Trade





FRAMEWORK FOR THE NATIONAL SYSTEM OF  
**MARINE PROTECTED AREAS**  
OF THE UNITED STATES OF AMERICA