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INTRODUCTION

The Mid-Atlantic Regional Planning Body (RPB), comprised of representatives of Mid-Atlantic States, federally recognized Tribes of the Mid-Atlantic, Federal agencies, and the Mid-Atlantic Fisheries Management Council, is working to implement the actions of the Mid-Atlantic Ocean Action Plan (https://www.boem.gov/Mid-Atlantic-Regional-Ocean-Action-Plan/). The tables in this document present progress on actions and best practices for the period June — November 2017 and proposed work plans for January —June 2018. Note that some actions may not have planned activities in 2018, but may be addressed in future years.

The Mid-Atlantic RPB is facilitated and guided by three co-leads with one each representing States, Tribes, and Federal agencies. Many actions in the OAP have established work groups with "champions" or "co-champions" leading them. Other actions are undertaken primarily by a single federal agency "champion." The RPB holds monthly calls to share updates on actions, coordinate activities and plan for annual public meetings.

Comments on the work plan and progress may be submitted by January 30,

2018 to the RPB at: <u>MidAtlanticRPB@boem.gov.</u> We thank you for your interest and support in our actions to promote a healthy ocean ecosystem and to foster sustainable ocean uses.

Laura McKay, Virginia, State Co-lead Kelsey Leonard, Shinnecock Nation, Tribal Co-lead Darlene Finch, NOAA, Federal Co-lead STATES

Delaware | Maryland | New Jersey | New York | Pennsylvania | Virginia

FEDERALLY RECOGNIZED TRIBES

Shinnecock Indian Nation | Pamunkey Indian Tribe

FEDERAL AGENCIES

Department of Agriculture (represented by the Natural Resources Conservation Service)

Department of Commerce (represented by the National Oceanic and Atmospheric Administration)

Department of Defense (represented by the U.S. Navy and the Joint Chiefs of Staff)

Department of Energy (represented by Energy Efficiency & Renewable Energy)

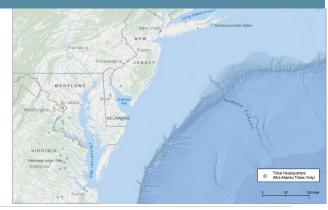
Department of Homeland Security (represented by the U.S. Coast Guard)

Department of the Interior (represented by the Bureau of Ocean Energy Management)

Department of Transportation (represented by the Maritime Administration)

Environmental Protection Agency

MID-ATLANTIC FISHERY MANAGEMENT COUNCIL



Draft* Major Benchmarks Timeline for Jan – Jun 2018

*Benchmarks and timeline are subject to approval by the Mid-Atlantic Regional Planning Body at the January 24, 2018 Public Meeting

Action	Benchmark	January	February	March	April	May	June
Ecologically	Develop plan for Integrating component data into portal			Х			
Rich Areas	Draft technical approach for layer classification and overlay			Х			
	Develop fact sheets on each of the 5 ERA Components				X		
	Outline options for classification & overlay				Х		
	Meeting/ Webinar/Workshop on draft communication tools					Х	
	and draft classification options						
	Plan for Integrating ERA component data and accompanying						Х
	data caveats, gaps and limitations notes into portal						
Ocean	Webinars	Х	Χ	Х			
Acidification	Develop draft plan for ocean acidification monitoring and					Х	
	research priorities						
Marine Regional projects uploaded to collaborative regional portal						Х	
Debris	Notification on NOAA/Marine Debris Program grant award				X?		
Indicators	Identification of Indicators					X	
	Plan for vetting proposed Indicators						Х
National	National Development of guidance to National Security agencies on use						Х
Security	curity of the OAP and Portal						
Ocean	Posting of Atlantic Science Year in Review 2017		Х				
Energy	Meet with Tribes to improve agency consultation on protecting						Х
	sites from impacts						
	BOEM presentation on Ocean Energy at Fisheries Council		Х				
	meetings						
	Release of National Academy's workshop summary on fisheries	Х					
	and o cean energy						
Fishing	Shinnecock/NOAA Round Table that will include some		Х				
	consideration of commercial & recreational Fishing						
	Potential recreational fishing workshop hosted by NOAA (TBD)						

4 of 86 pages. NOTE: Timing subject to change; dates based on best current assessments.

Action	Benchmark	January	February	March	April	May	June
	Training for federal agencies and fisheries management staff on Essential Fish Habitat (Dates TBD)						
MCNS Maritime Commerce & Navigation Safety (MCNS) BOEM Workshop on transportation and wind in Baltimore (Feb or Mar – tbd)			Х	Х	X		
Sand	MCNS webinar on new AIS data Association of American State Geologists meeting				^		Х
Sanu	Roll out of National Sand Inventory & Marine Mineral Information System		Х				^
	Posting of requests for OCS sand on BOEM website		Х				
	Meeting with fishing community on sand tbd in 2018						
	Annual conference on Underwater Archaeology	Х					
NCR	Complete Non-consumptive Recreation (NCR) survey and workshops report			Х			
	Develop recommendation for RPB for further NCR investigation on data regarding importance of rec areas and impacts & use conflicts Develop white paper on NCR best practices for RPB approval						X
Portal	Draft plan for maintaining Ocean Data Portal						X
	Ocean Mapping & Data Team quarterly calls	Х			Х		
	New data layers to be added fishing, maritime, oceanography, sand, marine life and socioeconomic themes by end of 2018						
	Post new ocean data use success stories						Х
Science	Establish a work group and collect science needs listed in semi- annual reports		Х				
	Develop criteria for determining regional priorities and submit to RPB for approval along with a stakeholder consultation plan						Х
RPB	RPB Meeting materials and Semi-annual Reports Posted						
	In-person RPB Meeting					Х	

Goal: Healthy Ocean Ecosystem

Action: #1 Identify & Increase Understanding of Ecologically Rich Areas

Champion: Laura McKay (VA)

Work Group Members: Federal Agencies: Lisa Croft (NOAA), Joe Atangan and Sarah Bowman (DoD), Chris Darnell (USFWS), Mary Boatman and Leann Bullin (BOEM), Buddy Lobue and Mark Reiss (EPA); States: Catherine McCall and Kim Hernandez, (MD); Kim Cole (DE), Liz Semple and Kevin Hassell (NJ), Karen Chytalo, Sherryll Jones, Peter Clouse, Mina Innes (NY); MAFMC Rep: Stew Michels; Tribal Reps: Kelsey Leonard (Shinnecock Tribe), Kathryn MacCormick (Pamunkey Tribe); Technical Input: Pat Halpin, Jesse Cleary, and Corrie Curtice (Duke); Nick Napoli (Portal Team); Kate Morrison (MARCO)

Progress Report	: June – Noven	ber 2017
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	Milestones for January -	Progress through November 2017
	December 2017	
1.	Finalize and post Framework	 This was completed during summer 2017. Final framework is posted at:
	for identifying ERAs	https://www.boem.gov/Final-Framework-for-Identifying-ERAs/.
2.	Continue updates of marine	 Marine mammal models have passed through an external review process and will be
	mammal, seabird, sea turtle	ready for MDAT summary product creation and web service update in spring 2018.
	and habitat layers by fall 2017	 Avian models are currently being reviewed and will be ready for MDAT summary
		product creation and web service update in spring 2018
3.	Develop SeaSketch survey	 The Sea Sketch survey was deployed and completed over the last half of 2017. The
		survey was organized around the 5 ERA components with relevant data listed under
		each component.
4.	Determine which data sets	 Results from the SeaSketch survey were collated by Emily Shumchenia and presented at
	best illustrate each of the 5	the Fall 2017 ERA workshop. The survey results document is now available at:
	ERA components	https://www.boem.gov/ERA-data-methods-review-results/
5.	Create draft maps illustrating	 Map layers for the datasets best illustrating the 5 components, as shaped by survey
	the 5 components by mid-	responses and other review input, now appear in a new section of SeaSketch - "Draft
	October	IEA/ERA Data products (Revised from Survey)".
6.	Conduct workshops in May	 MDAT synthesis and ERA data workshops were held on May 19, 2017 in Dover, DE (49
	and November 2017 to	attendees) and November 2, 2017 in Annapolis, MD (39 attendees). The May workshop
	present marine life data	summary is available (at: http://midatlanticocean.org/wp-

syntheses and gather stakeholder input 7. Present May 2017 workshop results at June 2017 RPB public meeting	 content/uploads/2017/09/ERA-May-19-2017-Workshop-Summary.pdf) while the November workshop report is nearing completion. May workshop results were presented at the June 2017 full RPB meeting in Silver Spring, MD.
8. Identify opportunities to engage stakeholders in reviewing data sets for ERA components	 The SeaSketch data survey was used in a variety of presentations, webinars, and inperson meetings to solicit feedback from stakeholders, in addition to the effort to have stakeholders fill out the survey online. Overall, 240 users were granted access to review the component layers. Over 110 individuals were engaged in 2017 via in-person meetings, webinars, phone calls, and facilitated review of SeaSketch. 16 individuals additionally completed the data survey providing detailed feedback.
Develop an outline for a sample ERA report	Work on this task will be addressed after resolution of the decision on further data synthesis by the RPB.
10. Develop an ERA Fact Sheet	 Work on this task will be addressed after resolution of the decision on further data synthesis by the RPB. The front side of the fact sheet describing the five components of ERAs is nearly complete.
11. Solicit input on criteria for selecting a first ERA on which to develop a report	 Work on this task was suspended in light of the need for additional guidance on further synthesis.
12. Explore resources for conducting additional work on this action	 A grant proposal to the Virginia CZM Program was prepared by VA CZM and MARCO staff for work on ERAs as part of Virginia CZM's FY17 Section 309 Ocean Resources Strategy. This project funds MARCO staff to assist with identification of and improved understanding of ERAs and covers the period of October 2017 through September 2018.
13. Finalize criteria for selecting first ERA report at Dec 2017 RPB public meeting	This work is suspended until a decision is made as to how to proceed with any further data synthesis at the Jan 24 RPB meeting.
14. Contract with appropriate entity to begin work on first ERA report	 The Virginia CZM Program contracted with MARCO in October 2017 for \$48,000 for an 18 month project to assist in development of ERAs and reports.

Progress on Best Practices: June – November 2017			
Best Practice 2.1.1	See semi-annual report on Portal actions		
Enhance Use of Data Portal			
Best Practice 2.1.2	 All five states, federal agencies (NOAA, BOEM, DoD, EPA), MAFMC and the Shinnecock 		
Enhance Participation in Agency	Nation have been actively participating in the ERA Work Group.		
Coordination			
Best Practice 2.1.3	• A stakeholder workshop was held on November 2, 2017 in Annapolis MD. 39 attendees		
Enhance Coordination with	representing RPB entities, fisheries, ocean energy, and ENGOs participated.		
Stakeholders			
Best Practice 2.1.4	• See 2.1.2 above.		
Enhance Federal-State			
Coordination			
Best Practice 2.1.5	• N/A		
Enhance Federal-Tribal			
Coordination			
	Work Plan: January - June 2018		
Steps	Milestones for January – June 2018		
Verbatim from the Plan	Expected dates for steps and substeps to be taken		
NOTE: This work plan is the reco	mmendation of the Work Group and is subject to approval by the full RPB at its January 2018		
mee	eting which includes opportunity for public review and comment.		
A. Evaluate and refine marine	 Continue MDAT data updates for all 3 taxa and summary products based on those data. 		
life data layers and synthesis	Special emphasis on incorporating additional seasonal data for fish.		
approach. Finalize framework	 Provide updates to the portal as data are available and given portal team 		
for identifying ERAs.	availability (ongoing).		
	 Improve portal documentation on data layer caveats, gaps, limitations, and 		
	appropriate use. (by June 2018).		

	 Finalize the list of data under each ERA component. Improve documentation of the ERA components and data layers. Create fact sheets about each ERA component (by April 2018) Improve portal documentation on data layer caveats, gaps, limitations, and appropriate use. (by June 2018) 		
B. Apply methodologies and identify potential ERAs.	 Outline a plan for ERA component data portal integration with the MidA portal team Outline how to include and highlight ERA-linked data layers (March 2018) Outline the technical approach for ERA layer classification and overlay (March 2018) Identify data layers and classification methods to demonstrate the classify and overlay approach Layers will be selected from the final ERA list (by April 2018) Outline classification method options which will include several conventional approaches (April 2018) Create opportunities for stakeholder input. (ongoing – June 2018) 		
C. Select one or more potential ERAs based on set of criteria to be developed for development of the first report.	 No activity planned for this period. The concept of developing ERA reports will be re- assessed after testing of the "classify and overlay" synthesis approach is completed and evaluated. 		
D. Review the selected ERA and develop report on ecological function, trends and current management	No activity planned for this period.		
Research/Data Needs			

- Better data on fish abundance and distribution for the winter, spring and summer seasons
- Comprehensive coverage of sea turtle abundance & distribution
- Distribution of corals on the continental shelf
- Areas of importance for particular life history stages of ocean animals.

Goal: Healthy Ocean Ecosystem	Action 2 – Map shifts in ocean species and habitats.			
Co-Champion(s): Laura McKay (VA), Vince Saba (NOAA) Currently looking for other RPB members to serve on a Work Group				
Progress Report:	June – November 2017			
Milestones for January - December 2017	Progress June through November 2017			
A. Identify information sources. (short-term)	 A workshop was hosted on April 4-5, 2017 by MARCO and MARACOOS at Rutgers University. A summary of the workshop was posted in November 2017 on the MARCO website at: http://midatlanticocean.org/wp-content/uploads/2017/11/Changing-Ocean-Conditions-Workshop-Summary.pdf The Marine Data Analysis Team completed a literature review, which was posted by the MARCO on its website at http://midatlanticocean.org/resources/#oceanplanning. 			
B. Recommend ways to make current information more accessible to RPB members and the general public. (short-term)	Capacity constraints, including the retirement of the Federal colead and other demands on the state co-lead, have limited progress on these activities. Nevertheless, NOAA has identified a new Federal co-lead and expects to make progress on these actions in 2018. Note the following: • We will continue to solicit input on the literature review (developed by MDAT folks at Duke and posted by MARCO) to ensure a comprehensive overview of existing sources of information about shifting species in the Mid-Atlantic.			

	 New Federal co-lead will attend the public MidA RPB meeting in Philadelphia to present information on NOAA's data related to shifting species. At the same time a request will be made to engage other members of the MidA RPB in the work group so progress can be made on these actions in 2018.
C. Convene resource managers, scientists, Traditional Knowledge holders, and commercial fishermen and other stakeholders to review and discuss: (1) data and methodologies that can be used to create draft maps that illustrate existing, historic, expected, or potential shifts in the distribution of marine species and habitats; (2) potential management applications of the maps; (3) additional data or information needed to enhance utility of draft maps; and (4) caveats for their use. (underway, short-term, and ongoing) D. Coordinate among RPB partners and stakeholders on necessary mapping data acquisition, using existing tools available for integrated ocean and coastal mapping collaboration, and leveraging support where feasible. (short-term and ongoing) E. Develop an approach to the production, peer review, metadata, and publication of maps that illustrate regional climate change-related biological and ecological changes. (underway and short-term)	•
F. Facilitate the publication of maps on the Data Portal, after they have been vetted and finalized. (short-term)	•
G. Identify resource needs and recommend methods to use new information to support initial and periodic updates of Data Portal mapping products, in order to maintain their utility for management agencies and stakeholders and ensure that updates occur regularly, as appropriate. (short-term and ongoing)	•

Progress on Best Prac	tices: June – November 2017
Best Practice 2.1.1	Nothing to report at this time.
Enhance Use of Data Portal	
Best Practice 2.1.2	 Nothing to report at this time.
Enhance Participation in Agency Coordination	
Best Practice 2.1.3	 Nothing to report at this time.
Enhance Coordination with Stakeholders	
Best Practice 2.1.4	 Nothing to report at this time.
Enhance Federal-State Coordination	
Best Practice 2.1.5	 Nothing to report at this time.
Enhance Federal-Tribal Coordination	
Work Plan: Ja	nuary - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. Identify Information sources	Completed but additional sources can be added to document on
·	MARCO website on an ongoing basis as they are identified.
B. Make current info more accessible	TBD after new Work Group is established
C. Convene stakeholders to discuss data, methodologies,	TBD
applications and needs	
D. Coordinate with partners to acquire necessary data	TBD
E. Develop an approach to the production, peer review, metadata,	TBD
and publication of maps that illustrate regional climate change-	
related biological and ecological changes.	
F. Facilitate the publication of maps on the Data Portal, after they	TBD
have been vetted and finalized.	
G. Identify resource needs and recommend methods to support updates of Data Portal with new maps or tools.	TBD

Research Needs

Several research needs were identified during the Changing Ocean Conditions Related to Fisheries Workshop (held at Rutgers in New Brunswick, NJ, April 4-5, 2017. Page 7 of the summary report (see link above) summarizes a discussion on "Gaps and barriers to more efficiently develop tools that support ecologically informed management." Participants particularly noted that more environmental data is needed, particularly bottom temperature, salinity, dissolved oxygen, current, structure and sediment data.

There was also a recognition among the breakout groups that new technology is becoming more available to augment existing data streams. These include animal borne sensors and camera systems in nets that will provide additional behavior and movement data. Physical models of past, present and future conditions can also be generated to inform ecological models. Such ecological models that incorporate these physical fields are then used to incorporate the ecology, economics, and human behavior (e.g. ATLANTIS). Even with these new technologies and products coming online, bottlenecks still exist, particularly fish data (age and diet) and data that integrate across social and economic aspects of the ecology.

Actions to be taken right away

- Better incorporation of fishermen's ecological knowledge of the system into the management process.
- Dedicate more resources to event response (i.e. anomalous temperature events, anomalous catch densities).
- Simplify data presentation to be more appropriate to targeted audience. It is critical to clearly define the audience for the data presentation.
- Incorporate animal behavior and movement data from acoustic and satellite sensors.

Longer term action

- Develop techniques to better tell ecologically relevant stories with the data. Management needs to transition to a process that acknowledges and quantifies the dynamics of the system, appropriate for ecologically based management.
- Improve data translation by engaging computer science expertise.
- Incorporate growing genetic datasets into population estimates and stock assessments, including population and meta-population studies, origin, stresses, EDNA (existing tool), and stable isotope analysis.

Future ideas that require much more time

- More expertise is needed to bridge the significant information gap that presently exists between the biology (individual species' population dynamics) and the ecosystem (ecosystem-based fisheries management).
- Develop methodology for audience and application appropriate visualization of more complex ecological model output.
- Incorporate additional fish information, including disease and predation data.

Goal: Healthy Ocean	Action: #3 Develop a Mid-Atlantic Ocean Acidification Monitoring Network
Ecosystem	

Co-Champions: Laura McKay (VA), Sherilyn Lau (EPA)

RPB Work Group Members: Erica Ombres (NOAA/OAP), Gabrielle Canonico (NOAA/IOOS), Beth Phelan (NOAA Sandy Hook Lab),

Karen Chytalo (NY DEC)

Technical Input: A.J. Erskine (VA shellfish grower), Wei Jun Cai (UDel), Whitman Miller (SERC), Pete Rowe (NJ Sea Grant), Elizabeth Shadwick (VIMS), Grace Saba (Rutgers/MARACOOS), Peter Moore (MARACOOS), Kaity Goldsmith (MARCO), Robert Newberry (Delmarva Fisheries Assoc.)

Progress Report: June – November 2017		
Milestones for January – December 2017	Progress through November 2017	
Establish a network (MACAN) and develop partnership with MARACOOS	The Mid-Atlantic Coastal Acidification Network (MACAN) is an established network and MARACOOS co-leads the network with MARCO. MACAN serves as the OA Work Group for the RPB. In addition to the HOE Action #3, MACAN further provides a platform for resource managers, academia and industry to share information, guide research and cultivate a better understanding of the potential impacts of coastal acidification on the Mid-Atlantic region.	
2. Conduct series of 4 webinars	MACAN hosted a webinar series consisting of four webinars between December 2016–March 2017 on a variety of topics relevant to the MACAN objectives. Webinars were hosted in order to begin to grapple with many of the questions that MACAN took on at the workshop in May 2017 (see 6 below). The webinars focused on understanding key stakeholder needs, developing priority research gaps, and creating a comprehensive monitoring plan. Webinar recordings can be found at http://midacan.org/webinars . The initial MACAN webinar series was a great success, and as such the Network will be hosting a second webinar series starting December 2017. MACAN also presented on an Ocean Data Portal webinar about the acidification monitoring maps that the Network developed on the Portal (see 3 below), you can view the webinar recording http://portal.midatlanticocean.org/news/video-rewind-ocean-acidification-webinar/">http://portal.midatlanticocean.org/news/video-rewind-ocean-acidification-webinar/ .	

Develop map of OA monitoring locations	MACAN, with help from the VA GIS Coordinator and Portal Team, created one map that shows all known current or previous acidification related monitoring in the Mid-Atlantic and five subsequent maps that show this data in different ways. This will help MACAN in developing a monitoring plan for the region. These five maps are: only currently sampled sites (no historical sites), sites separated by the number of parameters measured, sites measuring partial pressure carbon dioxide (pCO ₂), sites measuring total alkalinity (TA), sites measuring dissolved inorganic carbon (DIC), and sites measuring pH. All maps can be found under the Oceanography theme on the Data Portal http://portal.midatlanticocean.org/visualize/ .
4. Compile list of research resources	A list of compiled research resources can be on the MACAN website found at: http://midacan.org/reference-library . Additional research is added to this page as it becomes available.
5. Establish a MACAN website	The MACAN website (http://midacan.org/) was launched in April 2017 and new webpages continue to be added.
6. Convene and post summary of May 2017 workshop to identify data gaps and monitoring needs	 MACAN convened its first state of the science workshop on May 9, 2017 in Annapolis, MD. The workshop gathered 45 in-person and 13 webinar attendees from diverse backgrounds including academic scientists, industry representatives, and various levels of governmental agencies. The workshop consisted of informative presentations and breakout discussions for 3 topics: Monitoring plan Ecological research gaps Stakeholder concerns and needs A workshop summary was disseminated to participants on August 3, 2017 and next steps were developed: https://img1.wsimg.com/blobby/go/958b6fdd-eef6-4609-8108-20b4e4b02bdd/downloads/1bmugrgee 310957.pdf. As next steps following the workshop, MACAN initiated 2 new sub-work groups: 1) to develop a comprehensive regional monitoring network plan and 2) to develop regional research priorities.
7. Develop list of research needs and data gaps	The sub-work group to develop regional research priorities (RPWG) will identify priority research to improve understanding of regional acidification impacts. Guiding principles,

Develop preliminary plan for monitoring by summer 2018	a timeline, and a work plan have been developed to complete this objective. Members of this group joined via an announcement to the MACAN listserv, and some individuals were specifically recruited to ensure well rounded and knowledgeable work group participants. The inaugural call for this work group was held at the end of September 2017. The group has begun discussing the relevant impacted species and ecosystems as well as synthesizing existing scientific knowledge on the impacts. The Monitoring Plan Work Group, established after findings and stakeholder input from the workshop, is a sub-group within MACAN working to develop a robust monitoring plan for the Mid-Atlantic region from estuary to open ocean in order to improve understanding of the carbonate chemistry variability and change in the
	region. Guiding principles, a timeline, and a work plan have been developed to complete this objective. Members of this group joined via an announcement to the MACAN listserv, and some individuals were specifically recruited to ensure well rounded and knowledgeable work group participants. The inaugural call for this work group was held at the end of September 2017. The group has begun discussing existing monitoring and where there may be gaps in the current monitoring.
	Progress on Best Practices: June – November 2017
Best Practice 2.1.1 Enhance Use of Data Portal	 MACAN and the Data Portal worked closely to develop and launch the 6 new acidification monitoring maps described in 3 above.
Best Practice 2.1.2 Enhance Participation in Agency Coordination	 As MACAN members and participants in various work groups, agencies work with one another to achieve network objectives.
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 As MACAN members and participants in various work groups, stakeholders are engaged at a variety of stages in this effort.
Best Practice 2.1.4 Enhance Federal-State Coordination	 As MACAN members and participants in various work groups, state and federal entities work with one another to achieve network objectives. The MACAN Steering Committee includes two states (NY and VA) and two federal agencies (EPA and NOAA).

Best Practice 2.1.5	Some tribal members are on the MACAN network membership list and are		
Enhance Federal-Tribal	regularly provided updates on MACAN work progress and opportunities to engage through the MACAN listserv.		
Coordination			
Work Plan: January - June 2018			
Steps Milestones for January – June 2018			
Verbatim from the Plan	Expected dates for steps and sub-steps to be taken		
A. Identify and compile a list of current regional ocean acidification monitoring efforts and technologies, research, and data gaps, as well as opportunities for partnerships and support.	 Some discussion regarding technologies for monitoring occurred at the MACAN workshop. The conversation will continue with the Monitoring Plan Work Group. The experts on the Monitoring Plan Work Group will be convened to define the high quality calibrated sensor systems ideal for monitoring in the Mid-Atlantic. (to be completed by June 2018) Discussions around monitoring gaps were initiated at the MACAN workshop. The Monitoring Plan Work Group will identify monitoring data gaps based on areas that are currently monitored, areas of high impact, and areas monitoring multiple stressors. (to be completed by June 2018) Research gaps were discussed at the MACAN workshop, and will continue to be discussed through the Research Priorities Work Group. Data gaps will target regionally vulnerable species, ecosystem level research gaps, life history, vulnerable habitats, and food sources. (to be completed by June 2018) Identifying opportunities for partnership in filling in gaps in the monitoring plan is part of the work plan for the Monitoring Plan Work Group. (to be completed June 2018). 		
B. Identify and prioritize questions the Monitoring Network should address (e.g. location and number of needed monitoring sites, time intervals for measuring ocean acidification, etc.).	 The Monitoring Plan being developed by the Monitoring Plan Work Group will seek to identify number and location for additional monitoring sites need to develop a robust monitoring network in the Mid-Atlantic. (to be completed June 2018). 		
	 The Monitoring Plan being developed by the Monitoring Plan Work Group will seek to identify time intervals for measurement for the various additionally needed monitoring sites as well as water column depth. (to be completed June 2018). 		

C. Convene scientists, stakeholders,			
Traditional Knowledge holders, and			
the public to develop and vet			
options for establishing and			
supporting the Monitoring			
Network.			

- 1. MACAN co-leads convened expert stakeholders to develop the monitoring plan and research priorities sub-work groups and their knowledge will be invaluable in achieving work group objectives.
- 2. Two webinars are planned for winter of 2018, one for each sub-work group. These will provide an opportunity for additional stakeholder to reflect on the findings of the two work groups.

Research Needs

• The Research Priorities Work Group will develop a white paper that delineates acidification priority research needs in the region. This is anticipated to be available in late spring/early summer 2018.

Goal: Healthy Ocean Ecosystem	Action: #4 Develop Regionally Appropriate Marine
	Debris Reduction Strategy

Co-Champions: Laura McKay (VA), Buddy LoBue (EPA)

RPB Work Group Members: Jason Rolfe, Andrew Larkin (NOAA); Kelly Somers, Lingard Knutson, Sherilyn Lau, Kristin Regan (EPA); Terron Hillsman (USDA); Sherryll Jones (NY); Liz Semple, Kevin Hassell, Virginia Loftin, Megan Rutkowski (NJ); Nicole Rodi, Kari St. Laurent (DE), Kim Hernandez, Donna Morrow (MD), Virginia Witmer (VA)

Technical Input: Katie Register (VA - CVW), Kaity Goldsmith (MARCO)

Progress Report: June - November 2017

Milestones for January – December 2017	Progress through November 2017
Develop form for collecting data on current and recent projects; collect and analyze data by April 2017	 An excel document was developed and shared across the work group so each member could enter information regarding marine debris related projects across the region. This project inventory was developed to be included in a digital sharing space (see step 2 below).

Develop a digital sharing space by fall 2017 to house projects inventory and other resources	 A Mid-Atlantic Regional Marine Debris Collaboration Portal was developed via a NOAA Marine Debris program contract by November 2017. The updated project inventory will be incorporated into this sharing space
3. Survey RPB members for priority marine debris sources and project types and analyze results	 RPB members were surveyed in spring 2017 using Survey Monkey. Results were analyzed and used in consideration of the appropriate marine debris strategy for the work group to pursue.
Conduct regional marine debris workshop to develop concepts for a Mid-Atlantic project	 A regional marine debris workshop was hosted in June 2017. Several ideas were identified through the RPB survey results from step 3 (above); these ideas were presented and further developed with a variety of stakeholders at this event. Ultimately, the workshop identified a few, targeted potential projects/strategies to pursue, with balloon litter reduction using Community Based Social Marketing rising to the top.
5. RPB selects marine debris source and project type at June 2017 public meeting	 The work group co-leads presented results of the RPB survey and workshop to the RPB at the June 2017 meeting. The RPB agreed to pursue the balloon litter reduction using Community Based Social Marketing strategy as the first effort to be pursued by the RPB.
6. Work group selects specific project by July 2017	In considering input from the RPB surveys and workshop and the decision of the RPB at the June 2017 meeting, the work group decided to roll-out a Mid-Atlantic regional implementation of a balloon litter reduction pilot effort conducted in Virginia.
7. Identify funding sources	The work group identified a few opportunities for funding the strategy (e.g. the NOAA Marine Debris Program. A proposal is being submitted to NOAA/MDP in December 2017. In addition, VA is pursuing use of its CZM funds to retain coaching on a regional project by Doug McKenzie-

	Mohr and NJ is pursuing avenues for expanding some of its CZM funds for the regional strategy.
8. Begin implementation	Implementation will begin when/if funds are awarded.
Progress on Best P	Practices: June – November 2017
Best Practice 2.1.1	• N/A
Enhance Use of Data Portal	
Best Practice 2.1.2	 Multiple agencies (NOAA and EPA) and all 5 states in the
Enhance Participation in Agency Coordination	RPB are members of the marine debris work group and have played critical roles in identifying the marine debris regional reduction strategy.
Best Practice 2.1.3	Stakeholders helped the RPB identify a marine debris
Enhance Coordination with Stakeholders	reduction strategy to pursue via their participation in the workshop hosted in June 2017 in Richmond, VA. The work group hopes to engage a variety of additional stakeholders in pursuing the strategy as resources become available.
Best Practice 2.1.4	The Marine Debris work group established effective
Enhance Federal-State Coordination	coordination among the states and federal agencies in focusing regional marine debris reduction efforts and cataloging and sharing information on ongoing projects.
Best Practice 2.1.5	The Marine Debris work group provides a platform for
Enhance Federal-Tribal Coordination	engaging federal-tribal coordination in marine debris reduction strategies.
Work Pla	an: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken

A. Identify existing efforts and prioritize options for regional strategies for marine debris reduction. Note: Step A of the OAP contains additional tasks (including development of a region-wide marine debris shoreline monitoring program and a cost-benefit analysis on full lifecycle costs of plastics) not anticipated to be addressed in 2018.	 Complete uploading of projects database into the new digital collaboration portal (by June 2018). As additional projects are identified add them to the MD collaboration portal (ongoing).
B. Present options for regional strategies and implementation mechanisms to the public and RPB.	Completed. See steps 4 and 5 above.
C. Implement selected strategies.	In support of the Indicators Work Group, help to identify potential marine debris indicators for the Mid-Atlantic.
	Obtain one-on-one coaching by Community Based Social Marketing expert Doug McKenzie-Mohr for balloon litter reduction project.
	3. Work towards hosting Community Based Social Marketing workshop in New Jersey to build capacity in the region.
	Develop balloon litter monitoring protocol appropriate for project by adapting existing protocols.
	5. Develop tool to enter real-time (or near real-time) monitoring data to be accessed by work group for data analysis.
Research	/Data Needs
Fate and transport of ocean floatables relative to lan	dfall of marine debris (e.g., balloons).

Goal: Healthy Ocean Ecosystem

Action: #5 Develop, Monitor, and Assess Indicators of Ocean Health

themes and data categories were appropriate for ocean planning goals, if there

Champion: Karen Chytalo (NY)

Work Group Members (i.e. Steering Committee Members): Federal Agencies: Mary Boatman, Leann Bullin (BOEM); Chris Kinkade, Kevin Chu, Lisa Croft and Kenneth Sherman (NOAA); Sarah Bowman (NAVY); Hugh Sullivan (EPA); State Agencies: Sherryll Jones (NY-DEC), Kari St. Laurent (DE), Laura McKay (VA)

Technical Input: Kaity Goldsmith (MARCO); Tony MacDonald (Monmouth); Jay O'Dell (TNC); Pat Field, Nick Napoli and Emily Shumchenia (CBI)

Progress Report: June – November 2017	
Milestones for January – December 2017	Progress through November 2017
 Initiate a steering committee to guide contractors and hire contractors Develop list of existing indicators by April 2017 	 A Steering Committee was initiated in February 2017 and which guided the contractor's work throughout the contract period (ended September 2017). The Steering Committee and contractors compiled a list of existing indicators in early spring to be included in the conversations with stakeholder groups (see 3 below). The list can be found in the white paper on pages 5-11 at: http://midatlanticocean.org/wp-content/uploads/2017/06/MidA-Heathy-Ocean-Ecosystem-Indicators-white-paper-June-2017.pdf.
3. Present list of indicators to stakeholder groups; develop a framework of indicators; and identify data gaps by May 2017	• In early April 2017, the group arranged several webinars with ocean planning participants and stakeholders to share a project overview, report on progress to date, and obtain feedback on initial draft indicator themes and data categories for a healthy ocean ecosystems monitoring and assessment program. Over 50 individuals were invited to participate within the following groups: Academic and agency science/research, Commercial and recreational fishing, Environmental non-governmental organizations, Non-consumptive recreation, Aquaculture, Tribes, Maritime commerce, Energy, and Sand management. The group hosted seven 90-minute webinars between April 27 and May 15, 2017. Invitees and participants were asked to provide input, such as whether the proposed indicator

4.	Develop options for monitoring and assessment and reporting and display by June 2017	 were additional categories or data to consider, and which indictors or metrics should be prioritized. Finding from the outreach webinars were used to influence to white paper. Options for a healthy ocean ecosystem monitoring, assessment, reporting, and display of indicators, including references to example programs were provided in the white paper. Developing a healthy ocean ecosystem indicator monitoring
		and assessment program (pg. 13-29). These options were then further discussed and refined at the July workshop (see 6 below).
5.	Develop a white paper by July 2017	As alluded to in the steps above, the white paper (http://midatlanticocean.org/wp-content/uploads/2017/06/MidA-Heathy-Ocean-Ecosystem-Indicators-white-paper-June-2017.pdf) was completed in July to summarize research on existing indicators, outreach feedback, indicator framework and display options. This white paper was used as the basis for conversations advanced at the July workshop (see 6 below).
6.	Conduct a 2 day workshop on indicators to gather stakeholder input on options for indicators	The group hosted a 2-day workshop on July 19-20, 2017 in Baltimore, Maryland. There were 44 in-person attendees and 25 webinar attendees. The workshop agenda can be found here: http://midatlanticocean.org/wp-content/uploads/2017/06/MidA-Healthy-Ocean-Ecosystem-Indicators-DRAFT-AGENDA.pdf . The workshop summary can be found here https://www.boem.gov/Final-Indicators-report-from-CBI-with-appendices-for-RPB/ as Appendix B (starting on page 61).
7.	Produce a final report to the RPB by fall 2017	A final report, which summarizes recommendations and options for a Mid-Atlantic healthy ocean ecosystem indicator program, can be found here: https://www.boem.gov/Final-Indicators-report-from-CBI-with-appendices-for-RPB/ . The final report includes a recommended framework for the indicators program and recommended display options. The final report also provides key decisions points to be made to move the indicators program foreword, and recommended next steps. Feedback and input provided during the workshop significantly influenced the final report.

Best Practice 2.1.1	The data portal is a key part of consideration for the indicators effort, including
Enhance Use of Data Portal	potential indicators whose data may already exist on the portal as well as a possible location for the indicators dashboard.
Best Practice 2.1.2 Enhance Participation in Agency Coordination	A common theme throughout the development of the indicators effortis the need to consider and compile existing datasets that measure the indicators ultimately selected. The RPB will need to coordinate regularly between the indicator effort and any agencies who collect existing indicator datasets.
Best Practice 2.1.3 Enhance Coordination with Stakeholders	A common theme throughout the development of the indicators effort is the need to consider and compile existing datasets that measure the indicators ultimately selected. The RPB will need to coordinate regularly between the indicators effort and any stakeholder who collect existing indicator datasets.
Best Practice 2.1.4 Enhance Federal-State Coordination	 Any data used for indicators that is collected by either Federal or State governments will be better communicated across agencies and level of government through the indicators effort.
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	 A common theme throughout the development of the indicators effort is the need to consider and compile existing datasets that measure the indicators ultimately selected. The RPB will need to coordinate regularly between the indicators effort and any Tribes who collect existing indicator datasets.
	Work Plan: January - June 2018
Steps Verbatim from the Plan	Milestones for January – June 2018 Expected dates for steps and substeps to be taken
A. Summarize existing indicators currently available. Analyze the potential for available indicators to gauge the overall health of the Mid-A ecosystem, understand what the indicators may show us, and identify needed indicators not currently available. Vet the list of available and needed indicators with scientists, Traditional Knowledge holders, and stakeholders in the region.	 The white paper developed during 2017 (see 5 above) provides a summary of existing indicators available. Solicit additional RPB members for the work group and reconfirm current Steering Committee members. Identify Federal co-lead for the work group. The work group will initiate the identification of indicators within the framework determined in 2017 based on knowledge of existing indicators available (winter/early spring 2018).

	timeframe through teleconference and documentation.
B. Submit refined indicators to the RPB for consideration and endorsement	This step will occur beyond the January-June 2018 timeframe. a. The RPB will be kept apprised of progress during the Jan-June 2018
	framework (winter 2018). b. Iterative process with the work group to whittle down indicators (early spring 2018). 5. The work group will identify initial indicators that would be useful if the data existed/were available (late spring 2018). a. Cross-walk this list with the ROA to further identify missing indicators (late spring 2018). 6. The work group will develop a plan for vetting the indicators identified in substeps 4 and 5 above (June 2018).
	a. Reorganize indicators identified in the white paper into the

Research Needs

• While the RPB will focus on identifying existing datasets for indicators whenever possible, the RPB also acknowledges the worth in identifying potential indicator data gaps that could be filled in the future. Several gaps will likely be identified through the Jan-June 2018 work plan.

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Goal: Sustainable Ocean Uses		
National Security	programs, initiatives, and planning documents.	
Champion: Joe Atangan (Joint Staf	f/Navy) <i>Coordinating Federal Agencies</i> : Mike Jones (DoD), Chris Scraba (USCG)	
	Progress Report: June – November 2017	
Milestones for January - December 2017	Progress through November 2017	
1. Inform region Navy NEPA practitioners and biologists of Department commitments and Plan implementation requirements.	 July 2017: Region Navy NEPA practitioners and biologists were briefed by the DoD and JCS RPB representatives on Regional Ocean Action Plan implementation requirements and DoD commitments. 	
2. Inform region Navy NEPA practitioners and biologists of Data Portal capabilities.	 Sept 2017: The Mid-Atlantic Data Portal team provided training to Navy NEPA practitioners and biologists who support the development of Navy environmental planning documents. 	
Progress on Best Practices: June – November 2017		
Best Practice 2.1.1	 April-Sept 2017: NEPA practitioners utilized the portal for a variety of NEPA projects, 	
Enhance Use of Data Portal	using it as a resource for information when applicable and relevant to the project.	
Best Practice 2.1.2	 Ongoing: DoD has established agency coordination mechanisms in place and works 	
Enhance Participation in Agency	closely with other agencies and task forces to review proposed ocean uses. DoD	
Coordination	continues to work closely with partner agencies via established means and is committed	
	to building on relationships forged during the ocean planning process.	
Best Practice 2.1.3	 DoD has leveraged RPB working group sessions to engage with stakeholders not 	
Enhance Coordination with	routinely reached via the NEPA planning process.	
Stakeholders		
Best Practice 2.1.4	 Ongoing: DoD has established agency coordination mechanisms in place and works 	
Enhance Federal-State	closely with other Federal-State agencies and task forces to review proposed ocean	
Coordination	uses. DoD continues to work closely with partner agencies via established means and is committed to building on relationships forged during the ocean planning process.	

Best Practice 2.1.5	Navy Region Mid-Atlantic has renewed its commitment to Tribal Coordination through a
Enhance Federal-Tribal	project designed to establish Programmatic Agreements with affected tribes throughout
Coordination	the Mid-Atlantic Region.
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. Identify the Plan and Data	Work with the DoD/JS HQ to develop broad internal guidance to the Services on the use of the
Portal as important sources	Plan and Data Portal.
of information in decision	
making.	Operation
B. Consult the Plan and the Data Portal, along with other	Ongoing
sources of information, in	
the preparation of internal	
agency guidance, existing	
procedures, and	
environmental planning.	
C. Leverage the Plan and Data	Ongoing
Portal to obtain	
supplemental regional	
information related to	
proposed actions and	
activities.	
Research Needs	
• N/A	

Coale Custoinable Ossan Hess	Action, 42 Identify Department of Defence points of contest fourth agency
Goal: Sustainable Ocean Uses –	Action: #2 Identify Department of Defense points of contact for the range
National Security	of national security data layers in the Data Portal
Champion: Joe Atangan (Joint Staff/Navy)	Coordinating Federal Agencies: Mike Jones (DoD)
P	Progress Report: June – November 2017
Milestones for January - December 2017	Progress through November 2017
Review and update National Security layers in the Data Portal.	 July 2017: Completed a review of all National Security data layers in the Data Portal. Sep 2017: Provided updated National Security data layers and metadata to the Marine Cadastre.
Best Practice 2.1.1	• N/A
Enhance Use of Data Portal	
Best Practice 2.1.2	• N/A
Enhance Participation in Agency	
Coordination	
Best Practice 2.1.3	• N/A
Enhance Coordination with Stakeholders	
Best Practice 2.1.4	• N/A
Enhance Federal-State Coordination	
Best Practice 2.1.5	• N/A
Enhance Federal-Tribal Coordination	
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. DoD will, to the extent practicable, update the national security data on the Data Portal as needed, such as	1. Conduct an annual review of Portal data by July 2018.

when applicable permits are renewed or operations significantly change.	
B. Identify appropriate points of contact for the national security data layers provided for inclusion into the Data Portal.	 Review Code of Federal Regulations (CFR) to determine who is listed as responsible authorities for danger zones and restricted areas by June 2018. Review data layer metadata and update responsible authorities for danger zones and restricted areas by July 2018. Based on CFR review, submit required changes by October 2018.
Research Needs	
• N/A	

Goal: Sustainable Ocean Uses – Oc	cean Action: #1: Identify key intersections of relevant federal programs and	
Energy	authorities that affect wind energy development	
Champion(s): Darryl Francois (BOEM)		
	Duograss Donorte Lung November 2017	
Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017	
1. Develop and post leasing information on the BOEM website for stakeholders	 BOEM posted <u>A Citizen's Guide</u> on its website to explain BOEM's authorization process for overseeing renewable energy projects on the OCS and to highlight opportunities for public involvement BOEM collaborating with BSEE to develop guidelines for Facility Design Review (FDR) and Fabrication Installation Review (FIR) for industry BOEM collaborating with BSEE to develop guidance for Oil Spill Response Plans for renewable energy Construction and Operations Plans (COP) 	

2. Develop and post materials that identify intersections of key federal programs	 BOEM will leverage a related interagency effort to provide a regulatory roadmap to be posted on BOEM's website; anticipated in late 2017 BOEM developing guidance for the use of design envelopes in COPs; a BOEM-funded study investigating this issue as well as phased development was completed in August 2017 (see https://www.boem.gov/Phased-Approaches-to-Offshore-Wind-Developments-and-Use-of-Project-Design-Envelope/) BOEM posted on its website the results of the New York lease sale that occurred in December 2016 and the leasing materials and auction results of the Kitty Hawk, NC sale that occurred in March 2017 Offshore Wind Permitting Subgroup chaired by BOEM met in person Nov. 7, in addition to monthly webinars; working to document the processes, requirements, and roles of BOEM and other Federal agencies for the review and approval of COPs BOEM developing guidelines for lighting and marking of structures supporting renewable energy development to enhance navigation and maritime vessel traffic safety and clarify the requirements of BOEM, FAA, and USCG; BOEM plans to host an industry webinar in early 2018 to obtain feedback on draft guidance 		
	Progress on Best Practices: June – November 2017		
Best Practice 2.1.1 Enhance Use of Data Portal	 BOEM is using the data portal and encouraging others to use the portal when reviewing or proposing offshore wind energy projects, such as the New York Bight Areas for Consideration recently submitted to BOEM BOEM developing a handout about the portals to be used at intergovernmental renewable energy task force and other meetings 		
Best Practice 2.1.2 Enhance Participation in Agency Coordination	 Monthly webinars with the Offshore Wind Permitting interagency working group to discuss lessons learned from other interagency coordination efforts, project updates Planning "Offshore Wind and Navigation Knowledge Exchange" workshop with USCG on Intersection of Offshore Wind and Maritime Transportation in March 2018 in Baltimore, MD to review interagency efforts 		
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 BOEM presented at AWEA Offshore Windpower Oct. 24-25 in New York, NY and held a stakeholder engagement session 		

Best Practice 2.1.4 Enhance Federal-State Coordination	 BOEM planning a webinar for industry and stakeholders seeking input on draft guidance document about the use of design envelopes in COPs BOEM working on a Note to Stakeholders seeking input on proposed future renewable energy leasing offshore the Atlantic Coast BOEM approved Site Assessment Plans to deploy meteorological buoys offshore Virginia (and MA and RI) in 2017; BOEM coordinated with federal and state agencies during the review of the plans and posted the plans on its website BOEM reviewed New York's Offshore Wind Master Plan and held an intergovernmental renewable energy NY state task force meeting Oct. 3 to discuss the path forward for future leasing and the NY Plan and study efforts; BOEM held a joint NY and NJ task force webinar Dec. 4 and invited CT, RI, and MA task force meeting May 2017) BOEM held a joint intergovernmental Virginia and North Carolina task force meeting
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	 on Dec. 7 regarding the renewable energy research and commercial leases BOEM held an intergovernmental renewable energy NY state task force meeting Oct. 3 to discuss the path forward for future leasing and New York's Offshore Wind Master Plan and study efforts and Dec. 4 webinar; VA task force meeting Dec. 7
Coordination	Work Plan: January - June 2018
Steps Verbatim from the Plan	Milestones Expected dates for steps and substeps to be taken
A. Develop materials to describe leasing, environmental review, and regulatory entities, including where and when relevant authorities play roles in decisions related to offshore wind energy.	 BOEM is reviewing the NYSERDA recommendations and their methodology and will prepare a Call for Information and Nominations offshore New York as the next step BOEM signing on to an interagency MOU with DOD, DOE, DHS, FAA, and NOAA, with a work group studying the potential for wind turbine operations to interfere with radar signals, identifying information gaps and possibly developing recommendations for measures to take to mitigate potential interference; a related BOEM study will be complete in Sept. 2018

B. Develop materials that identify intersections of key federal programs and statutes related to offshore wind energy.	 BOEM participated in the first meeting of the Offshore Wind Technical Advisory Panel Oct. 24, an international group of renewable energy stakeholders that will update AWEA's existing guidelines for the offshore U.S. wind energy industry and develop U.S. specific engineering design standards for offshore wind facilities BOEM hosted the quarterly Wind Turbine Radar Interference and Mitigation interagency meeting on Nov. 1-2. The meeting included discussion of ongoing research into effects of wind turbine operations on use of radar for agency activities and to indicate any concerns about future renewable energy development
C. Post information developed in	Ongoing
Steps A and B to the Data Portal	
and BOEM websites.	
Research Needs	
	ses to the Broad Agency Announcement for the 2017 Technology Assessment Program on renewable energy development on the OCS (i.e., designs, methods, etc.)

Goal: Sustainable Ocean Uses Ocean Energy	Action: #2: Develop internal BOEM guidance on integrating the Plandeveloped best practices for using the Data Portal in management, environmental, and regulatory reviews	
Champion(s): Darryl Francois (BOEM)		
Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017	
1. BOEM will increase use of the Data Portal in management,	BOEM posted on its <u>National and Regional Guidelines for renewable energy activities</u> are <u>Survey Guidelines for renewable energy development</u> and <u>State Activities Environmenta Studies</u> webpages information stating that BOEM will use the Ocean Action Plan to information	

environmental, and regulatory reviews, as appropriate	 and guide its actions and decisions in the Mid-Atlantic, and will consider the data products available from the Data Portal in its decision-making, and encourage lessees and applicants to do so also In summer 2017, Data Portal linked with BOEM's Environmental Studies Program Information System (ESPIS), developed in partnership with NOAA. The search tool allows specific text- and map-based searches to find relevant study information including summaries, final reports, peer-reviewed publications, and digital data Progress on Best Practices: June – November 2017
Best Practice 2.1.1 Enhance Use of Data Portal	 BOEM encourages developers to use the information to inform the siting of their offshore wind energy structures within a lease area, and developers may provide data and information that they gain from offshore activities in developing wind energy BOEM's guidelines for developers include the recommendation to use the most recent data available to inform any proposed survey work Post-leasing, the process is also useful to identify data gaps BOEM used data information tools including the data portal in its review of NYSERDA's Offshore Wind report for development of potential areas for future leasing in the Mid-Atlantic Bight
Best Practice 2.1.2 Enhance Participation in Agency Coordination	BOEM supports the use of the data portal in supplying important data to the public, lessees, and decision-makers
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 BOEM participated in AWEA Offshore Wind conference in New York Oct. 24-25 (panels about New York's Offshore Wind Master Plan; studies; continuing permitting and leasing, data collection and environmental review of construction and operations plans, stakeholder public listening session; exhibit booth) BOEM planning a webinar about draft Design Envelope Guidelines for industry to solicit input before finalizing the guidance
Best Practice 2.1.4 Enhance Federal-State Coordination	BOEM using data information tools including the portal in its review of NYSERDA's report about developing potential areas for future leasing in the Mid-Atlantic Bight

Best Practice 2.1.5	BOEM continues to implement its internal renewable energy policies inviting		
Enhance Federal-Tribal	federally-recognized tribal partners to be cooperating agencies in the preparation of		
Coordination	NEPA documents, including inviting tribes to provide data		
Work Plan: January - June 2018			
Steps	Milestones		
Verbatim from the Plan	Expected dates for steps and substeps to be taken		
A. Using best practices described in section 2.1 and Healthy Ocean Ecosystem Action 6, BOEM will increase use of the Data Portal in management, environmental, and regulatory reviews, as appropriate.	Industry groups are helping to develop "best practices" to assist developers in launching offshore wind projects along the U.S. coasts. The three-year effort will write a set of comprehensive standards covering everything from how to design a wind turbine to building its foundations to assist the offshore industry. DOE's National Renewable Energy Laboratory (NREL) is involved with BOEM and Bureau of Safety and Environmental Enforcement (BSEE). They will update a set of recommendations finalized by AWEA in 2012 and add new standards. Federal agencies regulating offshore wind, including BOEM and BSEE, can then begin using the standards to advise developers on how to build. BOEM will continue to utilize information in the data portal throughout the leasing process to inform decision-making.		
Research Needs			
BOEM will continue to reach out to stakeholders through public meetings and encourage ideas for studies in the Mid-			
Atlantic to assist with identifying data gaps			
Goal: Sustainable Ocean Uses	 Action: #3: Partner in on-going and planned studies, identify knowledge gaps, and 		
Ocean Energy	increase access to research planning cycles related to ocean energy		
Champion(s): Darryl Francois (BOEM)			
Progress Report: June – November 2017			
Milestones for January - December 2017	Progress through November 2017		
Broad Agency Announcement for 2017 Renewable Energy Technology Assessment Program	 BOEM is reviewing white papers received in response to the Broad Agency Announcement (BAA) for the 2017 Renewable Energy Technology Assessment Program for five topic areas related to renewable energy development on the OCS, will award these studies in 2018 		

2. BOEM's National Studies List	 BOEM notified stakeholders about opportunities to provide suggestions for the annual Environmental Studies Program Planning cycle in the Fall 2016 for FY 2018 and published in the Environmental Studies Plan for FY 18-20 posted on BOEM's website BOEM published and posted in Spring 2017 the Atlantic Science Year in Review 2016 about the ongoing and completed studies in support of its offshore renewable energy
	program
	Progress on Best Practices: June – November 2017
Best Practice 2.1.1 Enhance Use of Data Portal	 Post studies on BOEM ESPIS which now links to the Portal (summer 2017) BOEM informed stakeholders that the newly designed Quarterly Report for its funded study reports are posted on ESPIS for the third quarter of FY 2017 providing concise descriptions of 14 reports, the purpose of each study, findings, and how BOEM will use the research results. The Quarterly Report also includes a list of new studies funded between April and June. All completed ESP reports are available with links to the Data Portals and peer-reviewed articles. Technical summaries of more than 1,800 BOEM-sponsored environmental research projects and more than 3,500 research reports are available: http://marinecadastre.gov/espis/#/.BOEM develops, funds, and manages rigorous scientific research to inform policy decisions regarding development of OCS energy and mineral resources. BOEM provided funding to NOAA to support the development of distribution and
Best Practice 2.1.2 Enhance Participation in Agency Coordination Best Practice 2.1.3	 abundance maps about birds in the data portal Jan. 2017: MidA and NE RPBs jointly submitted suggestions to the Subcommittee on Ocean Science and Technology for the "Plan for Ocean Research in the Coming Decade." BOEM co-sponsored the Southern New England Offshore Wind Energy Science Forum
Enhance Coordination with Stakeholders	Dec. 11-12 at URI on completed and ongoing research to improve the management and development of offshore wind energy, and presented priority research topics of interest to resource users, municipalities, and state and federal regulators
Best Practice 2.1.4 Enhance Federal-State Coordination	Continue to encourage states to provide ideas for BOEM's national studies list

Best Practice 2.1.5 Enhance Federal-Tribal Coordination	Encourage tribes to provide ideas for BOEM's national studies list	
Work Plan: January - June 2018		
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	
A. Increase awareness of research planning cycles to facilitate early involvement of RPB entities.	BOEM will share its National Studies List with the RPB and encourage ideas for studies in the Mid-Atlantic for FY 19-21; BOEM compiling the Atlantic Science Year in Review 2017 for publication and posting on the BOEM website in early 2018	
B. Maintain maps, data, information of OCS leasing areas, including boundaries and studies, and ensure data are provided to appropriate repository.	BOEM develops, maintains, and uses GIS data for activities related to planning, assessment, and environmental review of renewable energy projects on the OCS; BOEM's website provides direct access to data that it has developed or maintains.	
C. Partner in planned studies.	5-year NOPP study awarded in 2016 will establish an ecosystem observation network that provides baseline monitoring and supports predictive modeling of the soundscape and its relationship to marine life and the environment in the region; 7 ocean bottom landers deployed in late November 2017 on the mid- and south Atlantic OCS	
D. Work with RPB member entities to develop a MidA regional studies list in support of new regional offshore wind issues, areas, and projects.	BOEM will share its National Studies List with the RPB and encourage ideas for studies in the Mid-Atlantic for FY 19-21	
E. Identify opportunities for collaboration with the NOPP to assess interest among	BOEM awarded a 4 ½ year NOPP study "Deepwater Atlantic Habitats II: Continued Atlantic Research and Exploration in Deepwater Ecosystems with Focus on Coral, Canyon, and Seep	

federal agencies on common topics for possible joint funding.	Communities" with scientists from USGS and 7 academic institutions; the first cruise was recently completed	
Research Needs		
BOEM will continue to reach out to stakeholders through public meetings and encourage ideas for studies in the Mid-Atlantic to assist with identifying data gaps		

Goal: Sustainable Ocean Uses	 Action: #4: Use the data portal to enhance access to data, environmental reports, 	
Ocean Energy	and proposed offshore wind development activities	
Champion(s): Darryl Francois (BOE	M)	
	Progress Report: June – November 2017	
Milestones for January - December 2017	Progress through November 2017	
1. Link the Data Portal with ESPIS	 BOEM and the Data Portal Team linked the data portal with BOEM's Environmental Studies Program Information System (ESPIS) in summer 2017 	
2. Place and maintain links to agency announcements about proposed offshore development activities on the Data Portal	 BOEM develops, maintains, and uses GIS data for a wide range of activities related to planning, assessment, and environmental review of renewable energy projects on the OCS, and provides direct access to data BOEM has developed or maintains on its website and on the Data Portal Links to BOEM news related to regional ocean planning topics are on the Portal 	
Progress on Best Practices: June – November 2017		
Best Practice 2.1.1 Enhance Use of Data Portal	 Linked the data portal with BOEM's Environmental Studies Program Information System (ESPIS); summer 2017 	

D 1 D 11 D 12		
Best Practice 2.1.2	 BOEM participated in interagency working group on ocean and coastal mapping on 	
Enhance Participation in Agency	Nov. 28 in Silver Spring, MD to discuss the National Ocean Mapping Strategy next steps	
Coordination	and identify areas of collaboration in 2018	
	 BOEM partners with NOAA on the marine cadastre which feeds into the data portal 	
Best Practice 2.1.3	 BOEM posted information on its Renewable Energy webpage about the data portal 	
Enhance Coordination with	now linking with BOEM's ESPIS, and mentioning it in a Note to Stakeholders seeking	
Stakeholders	input into the National Studies List for FY 19-21	
Best Practice 2.1.4	 BOEM to receive preliminary study findings regarding offshore fish telemetry work in 	
Enhance Federal-State	and around the Maryland Wind Energy Area including next steps for understanding	
Coordination	utilization of the area by migratory fish	
Best Practice 2.1.5	BOEM invites the tribes to provide data and traditional knowledge regarding proposed	
Enhance Federal-Tribal	offshore wind development activities	
Coordination		
Work Plan: January - June 2018		
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	
A. Link the data portal with	Ongoing; related to interagency action to improve communication of related studies and	
BOEM ESPIS.	research to continuously update the data portal.	
B. Place and maintain links to agency announcements about proposed offshore development activities on the data portal.	Ongoing: http://portal.midatlanticocean.org/news/news-our-partners/	
· ,	Research Needs	
BOEM will continue to rea	ach out to stakeholders through public meetings and encourage ideas for studies in the Mid-	

Atlantic to assist with identifying data gaps

Goal: Sustainable Ocean	Action: #5: Improve consultations and communication with Tribes in the region	
Uses – Ocean Energy		
Champion(s): Darryl Francois (BOE	M)	
Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017	
Consult and communicate with Tribes	 The Shinnecock Indian Nation requested government-to-government consultation with BOEM to discuss renewable energy activities offshore New York and Rhode Island; meeting held on June 20, 2017 	
	Progress on Best Practices: June – November 2017	
Best Practice 2.1.1 Enhance Use of Data Portal	 BOEM is using the data portal and encouraging others to use the portal when reviewing or proposing offshore wind energy projects 	
Best Practice 2.1.2 Enhance Participation in Agency Coordination	 BOEM participated in Federal Tribal Trust Responsibility meeting with BIA, USFWS, USGS, NOAA, and EPA Nov. 15 in Boston, MA, about how various federal agencies identify tribal trust responsibilities and carry out their consultation responsibilities with federally-recognized tribes, and how we can better coordinate our policies and procedures 	
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 BOEM presented at the Visual Resource Stewardship conference: Landscape and Seascape Management in a Time of Change in Chicago, IL on Nov. 7-9 about how BOEM integrates visual impact analysis into planning for offshore wind, and what BOEM plans to do in the future. 	
Best Practice 2.1.4 Enhance Federal-State Coordination	 BOEM conducted meetings with its intergovernmental renewable energy state task forces (In New York Oct. 3 and via webinar Nov. 4 with NY and NJ to discuss the New York Bight; and in Virginia Dec. 7 with VA and NC to discuss leases offshore Virginia Beach and Kitty Hawk) 	
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	 Consulted with the Shinnecock Indian Nation about wind energy offshore New York in June 2017 	

Work Plan: January - June 2018		
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	
A. Continue to implement BOEM's internal renewable energy policies.	Continue to invite federally-recognized tribal partners to be cooperating agencies in the preparation of NEPA documents, require lessees to invite federally-recognized tribes to pre-survey meetings, and include Post-Review Discoveries Clauses with tribal partners for each stage of BOEM's renewable energy process	
B. Coordinate closely with tribal partners to protect sites from impact and resolve any impact in consultation with the tribes.	As a follow-up to Federal Tribal Trust Responsibility Meeting, the next step will be a meeting with the tribes in 2018 to present an overview of the results of the Nov. 15 meeting and continue a dialogue on improving agency consultation with federally-recognized tribes	
C. Work to effectively communicate BOEM's science strategy regarding studies of interest to tribes in the Mid-Atlantic region.	Continue to engage stakeholders in BOEM's annual national studies planning process	
	Research Needs	
BOEM will continue to re Atlantic to assist with ide	each out to stakeholders through public meetings and encourage ideas for studies in the Midentifying data gaps	

 Action: #6: Enhance BOEM engagement of fishing industries through 		
improved data and specific interactions		
' '		
Champion(s): Darryl Francois (BOEM)		
Progress Report: June – November 2017		
Progress through November 2017		
 BOEM contracted with the National Academy of Sciences to establish a Fisheries Steering Committee and held a workshop (Nov. 7-8 in MA) to provide feedback to BOEM regarding fisheries related studies and monitoring priorities related to offshore wind energy development http://nas-sites.org/dels/studies/atlantic-offshore-renewable-energy-development-and-fisheries/meetings/ BOEM co-sponsored the Science Forum 		
 Dec. 11-12 at URI on completed and ongoing research to improve the management and development of offshore wind energy, and presented priority research topics of interest to resource users including fishermen, municipalities, recreational boaters, and state and federal regulators BOEM maintains an Atlantic Fishing Industry Communication and Engagement webpage with maps to help commercial fishers learn more about BOEM's mission, related studies, and activities 		
Progress on Best Practices: June – November 2017		
 Continuing to evaluate Communities at Sea and other data in environmental assessments 		
 Cooperating with Maryland Department of Natural Resources on passive acoustic monitoring and fish telemetry offshore Maryland 		
 BOEM briefed the Mid-Atlantic Fishery Management Council Dec. 13 regarding the NY offshore wind next steps, and about other leases in the Mid-Atlantic Public workshop and webinar on Atlantic Offshore Renewable Energy Development and Fisheries hosted by the NAS Fisheries Steering Committee, sponsored by BOEM, 		

	Nov. 8-9 in New Bedford, MA to inform and advance the research and monitoring needed to assess fisheries impacts from offshore wind	
Best Practice 2.1.4 Enhance Federal-State Coordination	 Ongoing; BOEM New York Bight task force webinar on Dec. 4 to discuss the draft Call for Information, and a Virginia/North Carolina Task Force meeting on Dec. 7 to discuss the Virginia Coastal Offshore Wind Project and the Avangrid project offshore North Carolina 	
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	 Ongoing; Tribes are members of the intergovernmental state renewable energy task forces; BOEM NY Bight task force webinar on Dec. 4 to discuss the draft Call for Information, and a VA/NC Task Force meeting Dec. 7 to discuss the Virginia Coastal Offshore Wind Project and the Avangrid project offshore North Carolina 	
	Work Plan: January - June 2018	
Steps Verbatim from the Plan	Milestones Expected dates for steps and substeps to be taken	
A. Enhance existing public engagement strategies associated with fishing activities and resources and offshore wind	 BOEM to keep the Mid-Atlantic Fishery Management Council updated regarding the NY offshore wind next steps, and about other leases in the Mid-Atlantic BOEM reaching out to the Atlantic States Marine Fisheries Commission about presenting at their February meeting In early 2018, the National Academy of Sciences Fisheries Steering Committee will release a meeting summary from their Nov. 7-8 BOEM-sponsored workshop 	
B. Continue to work with fishermen and offshore wind lease holders in the implementation of BOEM guidance to lessees.	BOEM will continue to update its webpages about revised guidance for meteorological buoys and seek stakeholder input as appropriate	
C. More effectively communicate BOEM's science strategy for fisheries studies in its annual Studies Development Plan.	BOEM awarded a multi-year Inter-Agency Agreement with NOAA Jan. 2017 to conduct experiments on the effects of sound on fish and invertebrates, focusing initially on black sea bass and squid; laboratory experiments will be conducted to simulate pile driving sound levels and monitor the response	

	The first RODEO (Real-time Opportunity for Development of Environmental Observations) reports from Block Island Wind Farm monitoring will be available in early 2018 and will inform projects in the Mid-Atlantic

Research Needs

• BOEM will continue to reach out to stakeholders through public meetings and encourage ideas for studies in the Mid-Atlantic to assist with identifying data gaps

Goal: Commercial and Recreational Fisheries	Action #1: Improve sharing of information and ideas between States, Tribes, Federal agencies, and Fishery Management Councils on fisheries science and management
Champion(s): Marianne Ferguson (NOAA)	,
Pı	ogress Report: June – November 2017
Milestones for January - December 2017	Progress through November 2017

on the Council

identify shared interests and build

collaboration

• Mid-Atlantic Fisheries Management Council meetings included GARFO

leadership and staff, Council members and staff, state directors who serve

	 Commission meetings included GARFO lead boards, Council staff on some boards, FWS directors/Council staff sitting on the Comm State directors meeting included GARFO leadirectors (who also serve on the councils) NRCC included GARFO leadership, NEFSC leadership, MAFMC and NEFMC leadership 	staff on some boards, state dission dership and staff, state deadership, Commission
	Meeting	Dates
	Mid-Atlantic Fishery Management Council Meeting State Directors Meetings	June 6-8, 2017 July 31, 2017
	Atlantic States Marine Fisheries Commission	July 31, 2017
	Summer Meeting	August 1-3, 2017
	Mid-Atlantic Fishery Management Council Meeting	August 8-10, 2017
	Mid-Atlantic Fishery Management Council Meeting	October 10-12, 2017
	Atlantic States Marine Fisheries Commission Annual	
	Meeting	October 16-19, 2017
	Northeast Regional Coordinating Council	November 15-16, 2017
2. Offer to meet with Tribes to discuss fisheries management, and invite state officials to participate in meetings with Tribes	 NOAA is planning a day-long roundtable with the Shinnecock Indian Nation that is scheduled for February of 2018 to address a range of issues of interest to the Shinnecock. There have also been preliminary discussions about a separate meeting between Shinnecock Indian Nation and GARFO to discuss coordination on marine mammal strandings and cultural use of parts. While both sides have expressed interest, not date has yet been set. NOAA previously reached out to the Pamunkey Indian National to offer a meeting and provided some input regarding a shad meeting they were hosting in terms of meeting structure and participation. NOAA has had internal discussions about meeting with the Tribes on aquaculture in general terms, but nothing has yet been scheduled. 	

3. Explore with the MAFMC the possibility of RPB members participating as technical advisors to the Council's Ecosystem and Ocean Planning Committee for the purpose of identifying and monitoring fishing and non-fishing impacts on the environment and the impacts of other human activities on fishing.	Stew Michaels (DE DFW) and Mid-Atlantic RPB rep is now serving as the Vice-Chair of this Committee	
Progr	ress on Best Practices: June – November 2017	
Best Practice 2.1.1	•	
Enhance Use of Data Portal		
Best Practice 2.1.2	 There are some meetings where NOAA staff, FWS staff, and Council staff 	
Enhance Participation in Agency	interact, but they are not directly related to ocean planning interests	
Coordination		
Best Practice 2.1.3	•	
Enhance Coordination with Stakeholders		
Best Practice 2.1.4	 State directors are present at some meetings with GARFO leadership and 	
Enhance Federal-State Coordination	staff, but again, these fishery management meetings are not directly related	
	to ocean planning interests	
Best Practice 2.1.5	The planning for the NOAA's February 2018 round table is being coordinated with	
Enhance Federal-Tribal Coordination	the Shinnecock to ensure it addresses priority issues.	
	Work Plan: January - June 2018	
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	

None identified to date.	Research Needs	
environment and the impacts of other human activities on fishing.		
non-fishing impacts on the		
identifying and monitoring fishing and		
Committee for the purpose of		
Ecosystem and Ocean Planning		
of RPB members participating as technical advisors to the Council's		
C. Explore with the MAFMC the possibility	Stew Michaels to continue serving in the role of co-chair on this committee	
meetings with Tribes		
fisheries management, and invite state officials to participate in	the Shinnecock neservation on Long Island.	
B. Offer to meet with Tribes to discuss	 Shinnecock/NOAA Round Table with partners is scheduled for February 15, 2018 at the Shinnecock Reservation on Long Island. 	
interests and build collaboration		
MAFMC leadership, and State marine fisheries directors to identify shared		
regional NOAA and FWS leadership,		
A. Convene annual meetings between	 Continued coordination efforts at relevant meetings 	

Goal: Commercial and Recreational Fisheries Champion(s): Marianne Ferguson (NOAA)	Action #2: Continue to actively engage stakeholders in fisheries science and management, and seek ways to make fishermen's knowledge available for planning
Pr	ogress Report: June – November 2017
Milestones for January - December 2017	Progress through November 2017
Convene fisheries and marine wildlife managers and recreational fishing leaders to discuss concerns, provide information, and identify engagement opportunities	 Pending grant funding, Sustainable Fisheries staff at GARFO will potentially hold a recreational fishery management workshop in the Mid-Atlantic in the future.
 Work toward creation and support of ongoing surveys and/or interview projects on Tribal and fishermen's ecological and fisheries knowledge 	3. The Northeast Fisheries Science Center hosted a Port Outreach meeting in Montauk, NY on August 30 th to discuss Groundfish Operational Assessments.
4. Capture and reflect fishing community knowledge, including Tribal knowledge, in ocean management and data products and in the Data Portal, as appropriate	 The Portal team has been reaching out to the fishing community directly and via larger meetings, like MAFMC, to obtain feedback and input on draft Communities at Sea and Vessel Monitoring System data to ensure we understand the accuracy, limitations, and caveats associated with each dataset. Dockside engagement meetings and discussions are planned for Virginia in the near future.
Progress on Best Practices: June – November 2017	
Best Practice 2.1.1 Enhance Use of Data Portal Best Practice 2.1.2	Feedback from the fishing community has helped the development of Communities at Sea and VMS data

Enhance Participation in Agency	
Coordination	
Best Practice 2.1.3	 Meetings have occurred and are planned with recreational fishermen and
Enhance Coordination with Stakeholders	commercial fishermen
Best Practice 2.1.4	•
Enhance Federal-State Coordination	
Best Practice 2.1.5	•
Enhance Federal-Tribal Coordination	
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. Convene fisheries and marine wildlife managers and recreational fishing leaders to discuss concerns, provide information, and identify engagement opportunities	 Potential plans for a Mid-Atlantic region recreational fisheries management workshop
B. Work toward creation and support of ongoing surveys and/or interview projects on Tribal and fishermen's ecological and fisheries knowledge	Continue outreach efforts
C. Capture and reflect fishing community knowledge, including Tribal knowledge, in ocean management and data products and in the Data Portal, as appropriate	 Continue outreach efforts Dockside engagement meetings planned in the near future in VA
	Research Needs
None identified to date.	
None identified to date.	

Goal: Commercial and Recreational Fisheries	Action #3: Improve collaboration for the conservation of essential fish habitat	
Champion(s): Marianne Ferguson (NOAA)	Habitat	
F	Progress Report: June – November 2017	
Milestones for January - December 2017	Progress through November 2017	
NOAA will provide additional training for Federal agencies in the identification of and conservation of essential fish habitat	 NOAA Fisheries GARFO Habitat Conservation Division is providing this training on an ongoing basis. In the past six months, they provided a first-time training for the Nuclear Regulatory Commission. 	
2. Train fisheries management staff in the use of the data portal and utilize their feedback to improve the Data Portal's utility for supporting their day to day work and advancing their initiatives	 GARFO staff and portal staff hosted working sessions with the Sustainable Fisheries Division, Protected Resources Division, and Habitat Conservation Division. These personalized sessions provided an overview of the portal as well as an opportunity for questions and feedback. The portal team has conducted trainings with state partners in MD, VA, DE, and NJ which included participants from coastal zone management programs, departments of natural resources, and other related partners. 	
Progress on Best Practices: June – November 2017		
Best Practice 2.1.1 Enhance Use of Data Portal	 Trainings and the associated feedback will enhance stakeholders' day to day use of the data portal, as well as the contents of the portal itself 	
Best Practice 2.1.2	EFH trainings for Federal agencies help strengthen agency coordination for	
Enhance Participation in Agency Coordination	identifying and conserving EFH	
Best Practice 2.1.3 Enhance Coordination with Stakeholders	Data portal trainings and associated feedback enhance coordination with stakeholders that use the portal	
Best Practice 2.1.4 Enhance Federal-State Coordination	The portal team has conducted trainings at the state level	

Best Practice 2.1.5 Enhance Federal-Tribal Coordination	•
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. NOAA will provide additional training for Federal agencies in the identification of and conservation of essential fish habitat	Continue trainings throughout the year
B. Train fisheries management staff in the use of the data portal and utilize their feedback to improve the Data Portal's utility for supporting their day to day work and advancing their initiatives	 Continue trainings throughout the year Incorporate feedback into the Portal
Research Needs	
None identified to date.	

Goal: Sustainable Ocean Uses – Ocean Aquaculture Champion(s): National Oceanic and Atmosp	
Milestones for January - December 2017	rogress Report: June – November 2017 Progress through November 2017
1.a. Refer potential applicants for aquaculture permits to the Data Portal as a source of information about factors affecting siting decisions. (short-term and ongoing)	 NOAA's aquaculture coordinator refers all interested parties to the data portals of their respective regions to understand natural resources, human uses, and possible conflicts for space prior to developing site alternatives. There has only been one in the Mid- Atlantic thus far seeking ways to plan for fish farming in the EEZ (i.e. Manna Fish Farms off of Long Island).
1.b. Seek to include adequate information on the Data Portal so that resource managers can identify potential intersections between aquaculture and other uses and marine wildlife. (short-term and ongoing)	None to date.
2.a. NOAA's regional aquaculture coordinator will coordinate with State aquaculture programs, the aquaculture industry, Tribes, and Federal partners to identify and develop improved communication channels. (shortterm and ongoing)	 NOAA's regional aquaculture coordinator has made introductions to several Mid-Atlantic state aquaculture coordinators as he travels travel to varying states. These introductions initiate a relationship that can be used to improve communications as issues arise or as the need for regular meetings with states and feds on aquaculture arise. NOAA has developed a project to work with tribes in our region to assess aquaculture activities, aquaculture development interest, and research needs. NOAA has advertised for an intern placement over the past year and plan to post it in USA Jobs seeking an intern for the project during summer 2018. NOAA has also expanded federal communication channels regarding aquaculture on as-needed basis in response to planned projects.

Progress on Best Practices: June – November 2017		
Best Practice 2.1.1 Enhance Use of Data Portal	 Manna Fish Farms used the MidA Ocean Data Portal initially to examine characteristics while they were seeking initial site options. Phase II of the siting analysis will likely be using the Marine Cadastre tool. 	
Best Practice 2.1.2 Enhance Participation in Agency Coordination	•	
Best Practice 2.1.3 Enhance Coordination with Stakeholders	•	
Best Practice 2.1.4 Enhance Federal-State Coordination	•	
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	•	
	Work Plan: January - June 2018	
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	
1.a. Refer potential applicants for aquaculture permits to the Data Portal as a source of information about factors affecting siting decisions.	Ongoing	
1.b. Seek to include adequate information on the Data Portal so that resource managers can identify potential intersections between aquaculture and other uses and marine wildlife.	TBD	
2.a. NOAA's regional aquaculture coordinator will coordinate with State aquaculture programs, the aquaculture industry, Tribes,		

and Federal partners to identify and develop improved communication channels..

Research Needs

 NOAA has identified many aquaculture research needs as part of annual and long-term strategic planning but these are not specific to the MidA.

Goal: Sustainable Ocean Uses – Maritime Commerce and Navigation Safety (MCNS)

(Section 2.4.5 to OAP)

Champion: Chris Scraba, Doug Simpson (USCG), Amanda Rutherford (MARAD)

Maritime Commerce and Navigation Safety Work Group: Federal Agencies: Darryl Francois/Amy Stillings (BOEM); Lisa Croft/Darlene Finch (NOAA), Jeff Orrock (NOAA-NWS); Joe Atangan (USFFC) State Agencies: Michael Snyder (NY DOS); Peter Clouse (NY DOS); Karen Chytalo (NY DEC); Kevin Hassell (NJDEP); Kimberly Cole (DE DNREC; Laura McKay (VA DEQ); Technical Input: Kate Morrison (MARCO); Jay Odell (TNC-Portal); Matt Campo (Rutgers-Portal). Port Partners and OGAs: USCG Sector Hampton Roads, Maryland-NC Region, Delaware Bay and New York along with Pilots Assoc and Port Authorities of respective ports.

ivial ylanu-ive neglon, Delaware bay and	Maryland-NC Region, Delaware Bay and New York along with Pilots Assoc and Port Authorities of respective ports.		
Progress Report: May – November 2017			
Milestones for January - December Progress through November 2017 2017			
1. Conduct inaugural semi-annual	Action Items from 1 May Webinar and Progress in ()		
MCNS WG Webinar MAY17. (Hosted	MAC/SEC DEL BAY requested info on VA Severe Weather Advisory Team (Held a		
40 phone line connections and 30	follow-on 8 Jun 17 call with MT Holly NJ NWS to facilitate dialogue with all MAC		
webinar connections)	port partners on severe weather events/reporting to set up a Port Severe Weather		
-Speakers	Advisory Team in Del River Region).		
* Mr Orrock- NWS:Hurricane/	Obtain update on MET TOWER/data buoys for MD/NJ WEAs (Conducted update in		
Severe Weather port coord comms	webinar notes and follow-on 1 NOV webinar for Jan 2018 buoy install for southern		

*Mr MacDuffee-BOEM:WEA Projs *Mr Nieves-USACE:Dredging Projs *Mr _Martin-NOAA: Marine Cadastre-AIS Data *Sector/COTPs Round Robin *OGA/Trade Assoc comments 2. Conduct second semi- annual MCNS WG Webinar on 3MAY17: currently no new dat Speakers * Mr Orrock- NWS:Hurricane/ Severe Weather port coord comms *Ms Stillings-BOEM:WEA Projects *Mr MacDonald-UCI: Blue Ocean Economy 2030 Forum *Mr Kelliher-NMFS/NOAA: Whale Strikes and Avoidance SDZs. *Sector/COTPs Round Robin *OGA/Trade Assoc comments 3. Advocate for BOEM to host a	 NJ WEA and May 2018 ET Tower install for MD WEA) Status of uploading MC AIS track line data to portal sites. (Coordinated with MARCO Data Portal Site to provide updated AIS track line maps and briefed out on 1 NOV webinar on the upcoming FEB 2018 release of 2015/16 data). Requested to expand dialogue on recent whale strikes off the Mid Atlantic to ensure active awareness and highlight the ongoing issue with NOAA declaring event as Unusual Mortality Rate Investigation. (Added to all HSC and follow on speaker from NOAA set up for 1 NOV call). Action Items from 1 Nov Webinar and Progress in () BOEM and USCG (requested agenda input for the upcoming FEB/MAR 2018 Workshop titled "Intersection of Maritime Commerce Sector and Offshore Wind Energy".) SEC DEL Bay and the MAC both (requested and received Sector Hampton Roads and Sector New York ULCV Business Rules for ULCVs to potentially incorporate on the Delaware River.) MARCO Data PORTAL Site Update. Mr. Napoli advised that they are processing and analyzing the 2015-2016 AIS data and developing new maps that will show actual transit counts and monthly data instead of relative density on an annual basis. (Feedback on the new methodology for counting transits and displaying an accurate picture will be requested by stakeholders. MCNS is looking to set up a webinar to display new data in spring of 2018) Held Monthly meetings with BOEM JUL-Nov 17 but due to approval delay, venue and
Maritime Commerce and WEA Development Group Workshop	date conflicts, BOEM has postponed until FEB/MAR 2018
	Progress on Best Practices: May – November 2017
Best Practice 2.1.1 Enhance Use of Data Portal Best Practice 2.1.2 Enhance Participation in Agency Coordination	 Coordinating with MARCO Data Portal site on the FEB 2018 release of 2015/16 AIS data in new "transit count" format vice traditional heat maps. Used Data Portal in briefs at US Cong 8 NOV, AAPA 15 NOV and MCNS webinars Developed formal monthly phone calls with BOEM and USCG HQ/D1/D5 to better coordinate offshore wind energy and develop agenda for workshop

T	
Best Practice 2.1.3	Held MCNS webinars in May and Nov, attended Blue Ocean Economy Forum and Joint
Enhance Coordination with	Ocean Council Initiatives, (JOCI) Resilience of the MTS
Stakeholders	 15 AUG 2017 transited in with VA Pilots Association President and USCG COTP Rep on
	ULCV M/V OOCL FRANCE (1200'LOA, 158' Beam and 13,000 TEUs) to better understand
Best Practice 2.1.4	 Attended and advised the MCNS Webinar of upcoming BOEM task force meetings and
Enhance Federal-State	webinars for offshore WEAs.
Coordination	 Attended quarterly Harbor Safety Committee meeting in VA, MD, PA
Best Practice 2.1.5	• NSTR
Enhance Federal-Tribal	
Coordination	
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
Action 1. Monitor marine commerce trends and traffic patterns to identify and address emerging commerce and navigation needs	 Coordinate with BOEM to host a high level Workshop on Intersection of Maritime Transportation community with Wind Energy Developers in Feb/Mar 2018 in the Baltimore, MD area. Review traffic patterns to address emerging commerce and navigation needs with development of potentially new NY offshore WEAs once updated AIS data in spring of 2018 becomes available. Monitor and track risk mitigation strategies in place in ports of VA and NJ/NY for Business Rules associated with safe transit of ULCVs as best practice
Action 2. Maintain reliable ocean use data sets relevant to navigation.	 Set up a Potential webinar for new 2015-2016 AIS data in spring of 2018 to the MCNS WG to obtain insight and feedback on new vessel track data vs the traditional heat map.
Action 3. Catalogue intersections between entities whose authorities influence marine commerce and navigation and	 Create draft product for MCNS review that evaluates the overlapping and interjurisdictional authorities. Review with BOEM a more transparent process on new or changing WEAs with stakeholders to ensure everyone's concerns are heard.

identify opportunities for improved coordination	
Action 4. Identify impacts to navigation and port infrastructure stemming from the Panama Canal expansion.	 Monitor ULCV business rules as best practice and track deep draft dredging projects in Mid Atlantic ports with Del River completion from 42 to 45' scheduled for completion in OCT 2018 and Ports of VA-Thimble Shoals recommendation from 50 to 55' up for future Congressional Authorization and Appropriation in FY-19
Research Needs	

- Evaluation new Data Portal 2015-16 AIS data to determine if any many changes to traditional navigation safety corridors.
- Determine change in volume of vessel tracks and cargo along Mid Atlantic ports with Panama/Suez Canal Expansions now completed.

Goal: Sustainable Ocean Uses –		Action: #1: Promote strategic stakeholder engagement and regional
Sand Management		partnering initiatives
Champion(s): Jeff Reidenauer (BOI	EM)	
	Pi	rogress Report: June – November 2017
Milestones for January - December 2017		Progress through November 2017
1. Engage stakeholders		BOEM met with fishermen about BOEM process in identifying sand resources and authorizing use of OCS sand as well as issues concerning dredging and potential impacts regarding sand resources off New Jersey in July 2017.
2. Post Request Information on the BOEM website		BOEM is working to post requests for OCS Sediment/Agreement Request Notifications on its website at https://www.boem.gov/Marine-Minerals-Program/ . Additional new outreach efforts such as contact with stakeholders to include other potential users of a particular borrow site.

	Progress on Best Practices: June – November 2017
Best Practice 2.1.1 Enhance Use of Data Portal	 Ongoing. BOEM continues to develop its Marine Minerals Information System (MMIS) and coordinate with its Federal and state partners on data and information; MMIS will support the Data Portal.
Best Practice 2.1.2 Enhance Participation in Agency Coordination	Ongoing
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 BOEM met with NJ fishing groups, NJDEP, NMFS, NOAA and USACE on July 26; fishermen expressed concerns about being part of the planning process as borrow areas are considered and about impacts to their fisheries during the development of NEPA documents. Participants stated the meeting was a productive initial step, the engagement allowed their concerns to be heard and encouraged future and ongoing dialogue; BOEM sent a meeting summary to all attendees on Sept. 20.
Best Practice 2.1.4 Enhance Federal-State Coordination	BOEM planning a Mid-Atlantic sand management working group webinar on Dec. 14 to share information on sand needs and data
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	• Ongoing
	Work Plan: January - June 2018
Steps Verbatim from the Plan	Milestones Expected dates for steps and substeps to be taken
A. Promote engagement with federal, state, tribal, and local partners to improve coastal planning and information sharing, implement effective and sustainable resource management strategies for	 The AASG (Association of American State Geologists) Annual Meeting will be hosted June 3-7, 2018 by the Delaware Geological Survey (DGS); BOEM will coordinate with the DGS on holding a joint AASG/BOEM session to provide an update on BOEM programs and marine minerals program efforts at developing a National OCS Sand Inventory.

OCS sand, and facilitate efficient processes to best serve the public's short- and long-term coastal resilience needs.	 BOEM will continue to work with its state cooperative agreement partners (NY, NJ, MD, DE, and VA) on evaluation of geophysical and geological data collected under BOEM's Atlantic Sand Assessment Project. BOEM participated in a workshop on Nov 29-30, 2017 in Newark, DE under its Regional Cooperative Agreement with the Delaware Geological Survey. The workshop addressed regional geology off S. NJ, DE, and MD and potential sand resources. It included representatives from NJ, DE, MD and VA. 	
B. Serve as a liaison among federal agencies, states, tribes, and other stakeholders (through regional sand management working groups) to facilitate communication and share information regarding the use of OCS resources in an environmentally sustainable manner.	 BOEM met with USACE mid-2017 to discuss collaboration on upcoming projects on Long Island, New York; BOEM coordinating with USACE on potential areas for future New Jersey projects. BOEM facilitated a Mid-Atlantic Sand Management Working Group webinar to share information on sand needs and data on Dec. 14 	
Research Needs		
None identified to date.	None identified to date.	

Goal: Sustainable Ocean Uses Sand Management Champion(s): Jeff Reidenauer (BOE	planned and future restoration and resilience projects, provide availability for emergency use, and manage competing use challenges	
Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017	
1. Develop sand geodatabase	 As part of its Atlantic Sand Assessment Project (ASAP), BOEM completed geophysical surveys of potential sand resource areas offshore southern New Jersey and Delaware in May 2017; Geological (vibracoring) sampling conducted in southern NJ and DE in June 2017 BOEM continuing development of its Marine Minerals Information System (MMIS) that is its centralized data repository for offshore Federal sand resource information. 	
2. Finalize Rule on Negotiated Non-Competitive Agreements for Sand, Gravel, Shell Resources	 The Final Rule Governing Negotiated Noncompetitive Agreements for Sand, Gravel, and Shell Resources published in the Federal Register (30 CFR 583) on Oct. 3; effective Dec. 4, 2017 	
	Progress on Best Practices: June – November 2017	
Best Practice 2.1.1 Enhance Use of Data Portal	BOEM creating a National Offshore Sand Inventory and Marine Mineral Information System (MMIS), will inform Portal	
Best Practice 2.1.2 Enhance Participation in Agency Coordination Best Practice 2.1.3 Enhance Coordination with	 BOEM staff are assisting with the development of a multi-year roadmap for implementation of the U.S. Coastal Research Program which is being led by the USACE, USGS, and American Shore and Beach Preservation Association BOEM works with the states (NY, NJ, DE, MD, and VA) through BOEM-funded cooperative agreements to support its development of a National Offshore Sand 	
Stakeholders	 Inventory BOEM will provide information and perspectives on Federal offshore sand resources in a new MARCO-led effort at developing a sand resource (state and Federal) inventory for the Mid-Atlantic 	

Best Practice 2.1.4 Enhance Federal-State Coordination	 USACE Norfolk District submitted a request letter to BOEM for 2 million cubic yards of OCS sand for the Sandbridge, VA project. Project construction anticipated to begin in the summer of 2018; concurrence letters for ESA Section 7 consultation are under review by USACE management; informal correspondence for EFH consultation sent to NMFS in October 2017 BOEM issued an amendment to the Long Beach Island, NJ MOA for an additional 3 mcy of OCS sand. Project construction expected to begin in early 2018. 	
Best Practice 2.1.5	Ongoing	
Enhance Federal-Tribal		
Coordination		
Work Plan: January - June 2018		
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	
A. Leverage BOEM's geodatabase as a central repository for OCS sand resource data collected thru state co-op agreements and environmental studies to better facilitate offshore sand management; make information on borrow site and potential resource locations available on Portal.	BOEM invested \$12.8 million since Hurricane Sandy to identify sand resources and update databases and maps; creating a National Sand Inventory and Marine Mineral Information System (MMIS); BOEM reaching out to MARCO and data portal team as the efforts progress. BOEM anticipates public roll-out of the MMIS in early 2018	

B. Use USGS sediment transport	Ongoing
studies to advise on short-	
and long-term regional	
cumulative impacts of	
offshore sand and aggregate	
resource extraction on	
stability of barrier islands,	
other coastal features.	
C. Develop strategic approaches	BOEM study through interagency agreement (IA) with USACE examining geological,
to optimize OCS sand	engineering, economic, environmental, and dredge operation variables for multiple uses of
resource management by	borrow sites.
considering geological,	
engineering, economic,	
environmental, and dredge	
operation variables for	
multiple uses of borrow sites.	
Research Needs	
None identified to date.	

Goal: Sustainable Ocean Uses	 Action: #3: Conduct studies to support sustainable management of 		
Sand Management	offshore sand resources		
Champion(s): Jeff Reidenauer (BOE	Champion(s): Jeff Reidenauer (BOEM)		
Progress Report: June – November 2017			
Milestones for January - December 2017	Progress through November 2017		
1. Input to National Studies List	BOEM's 2018 National Studies List will be finalized by the end of 2017		

Progress on Best Practices: June – November 2017	
Best Practice 2.1.1	Linked BOEM's ESPIS to the data portal in summer 2017
Enhance Use of Data Portal	
Best Practice 2.1.2	Through IA with NOAA, undertaking a programmatic regional geospatial assessment of
Enhance Participation in Agency	EFH in 2017 to support leasing decisions in offshore waters; BOEM invited, received,
Coordination	and is evaluating several ideas for studies in Mid-Atlantic for FY 18-20.
Best Practice 2.1.3	 The development team for the Development of a Decision Support Tool to Reduce Sea
Enhance Coordination with	Turtle Dredging Entrainment Risk study provided a demo of the current status of the
Stakeholders	tool to interested stakeholders including BOEM in September; developers continue to work towards completion of the tool, instruction manual, and final report by December.
Best Practice 2.1.4	 BOEM's Ocean Science magazine published in November 2017 focuses on marine
Enhance Federal-State	minerals and includes discussion of activities along the mid-Atlantic.
Coordination	
Best Practice 2.1.5	 Ongoing
Enhance Federal-Tribal	
Coordination	
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. Routinely collaborate through ESP, with federal agencies and state and tribal entities with mutual study interests.	Continue to solicit feedback in development of short and long term strategy to address priority research gaps
B. Enhance access to a range of data and studies by linking the Portal to ESPIS.	Ongoing – MMIS development underway

C. Use Portal to inform ecological sustainable offshore sand extraction and placement, including information on non-	Ongoing	
other uses, when considering		
beach nourishment projects. Research Needs		
BOEM to invite and evaluate ideas for studies in the Mid-Atlantic for FY 19-21.		

Goal: Sustainable Ocean Uses –	Action: #4: Identify and improve existing federal-state interactions and
Sand Management	cooperative agreements in the region
Champion(s): Jeff Reidenauer (BOEM)	
Progress Report: June – November 2017	
Milestones for January - December 2017	Progress through November 2017
BOEM/USACE MOU on Coordinating on the use of OCS sand, gravel and shell resources	MOU executed February 2017
Progress on Best Practices: June – November 2017	
Best Practice 2.1.1 Enhance Use of Data Portal	Ongoing
Best Practice 2.1.2	BOEM and USACE signed a MOU in February 2017 to enhance coordination on managing sand, gravel, and shell resources from the OCS; the MOU

Enhance Doutisination in Agency	actablishes a framework for early and systemed coordination and
Enhance Participation in Agency Coordination	establishes a framework for early and sustained coordination and cooperation between BOEM and the USACE, and supports consistency in environmental compliance, project scheduling, and negotiated agreement requirements for projects
Best Practice 2.1.3	Ongoing
Enhance Coordination with Stakeholders	
Best Practice 2.1.4 Enhance Federal-State Coordination	 BOEM working with Atlantic State Cooperative Agreement partners on second round of agreements to identify new potential offshore sand resources; Co-Op agreements with NY, NJ, DE, MD, and VA; working with DE Geological Survey to develop a regional geologic model and framework, in coordination with NJ, VA, and MD Geological Surveys BOEM's Cooperative Agreement partner, the Delaware Geological Survey – University of Delaware (DGS) hosted an Atlantic Sand Assessment Project (ASAP) Mid-Atlantic workshop at DGS offices in Newark on Nov. 28-29, 2017. State cooperative agreement partners from New Jersey, Delaware, Maryland and Virginia attended. This project expands upon the OCS geologic knowledge of southern New Jersey and the Delmarva Peninsula in order to identify potential sand resource areas.
Best Practice 2.1.5	Ongoing
Enhance Federal-Tribal Coordination	
	Work Plan: January - June 2018
Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. Identify new and improve existing stakeholder relationships regarding coordination around beach nourishment and coastal restoration projects that utilize OCS sand resources.	Ongoing

B. Continue to collaborate with USACE regarding coastal resiliency needs and identify priorities that best support both programs, including OCS sand resource assessment and evaluation, data gaps and science needs, environmental coordination and consultation, and other elements. C. Continue working through state cooperative agreements to continue building the comprehensive inventory of OCS sand resources in the region.	Ongoing. Leveraging the BOEM and USACE MOU. Ongoing. Cooperative agreements with NY, NJ, DE, MD, and VA run through FY 2018.	
Research Needs		
None identified to date.		

Goal: Sustainable Ocean Uses – Sand Management	Action: #5: Engage fishing communities in planning and environmental review of proposed activities	
Champion(s): Jeff Reidenauer (BOEM)		
Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017	
1. Meeting with NJ Fishing Community	 BOEM met with NJ fishermen, USACE Philadelphia and New York District representatives, NOAA, and NJDEP on July 26 in Toms River, NJ, to address fishermen's concerns on offshore sand dredging 	

Progress on Best Practices: June – November 2017		
Best Practice 2.1.1 Enhance Use of Data Portal	Ongoing	
Best Practice 2.1.2 Enhance Participation in Agency Coordination	• Ongoing	
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 BOEM met with NJ fishermen, USACE Philadelphia and New York District representatives, NOAA, and NJDEP on July 26 in Toms River, NJ, to address fishermen's concerns on offshore sand dredging 	
Best Practice 2.1.4 Enhance Federal-State Coordination	 Coordinating with MidA States to identify contacts within the fishing communities to ensure effective communication and outreach occurs for each project; working with USACE and NJDEP to coordinate proposed OCS sand resource areas with fishing communities and develop a strategy 	
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	• Ongoing	
Work Plan: January - June 2018		
Steps Verbatim from the Plan	Milestones Expected dates for steps and substeps to be taken	
A. Communicate BOEM's sand resource management strategy and prioritization of OCS sand resources to avoid use conflicts with fishing grounds.	 BOEM engaging fishing communities to avoid use conflicts in New Jersey; working with USACE and NJDEP to coordinate proposed OCS sand resource areas with fishing communities and develop a strategy; meeting with fishing community representatives in 2017; coordinating with MidA States to identify contacts within the fishing communities to ensure effective communication and outreach occurs for each project. In early 2018, BOEM will begin to post requests for OCS sand on its website in order to give interested groups such as fishermen notification of pending potential projects. BOEM anticipates a follow-up meeting with the fishing community in 2018. 	

B. BOEM will communicate its science strategy for fisheries studies in its annual studies planning process and solicit feedback from fishery stakeholders on priority research gaps.	BOEM will solicit stakeholder feedback in late 2017 on ideas to address priority research gaps for its FY19-21 Studies Plan; continue to solicit feedback in development of short and long term strategy to address priority research gaps related to fisheries.	
C. BOEM will continue to inform and solicit feedback from NMFS and regional FMCs and work together to develop best management practices to avoid and/or minimize fishery impacts associated with dredging of offshore sand resources.	BOEM's ongoing project-specific EFH consultations; use best available science to inform development of appropriate BMPs for each project-specific scenario; coordinate with NMFS and FMCs in the SOW development for two new fisheries related studies applicable to the MidA in BOEM's FY17-19 National Studies List.	
D. BOEM will use data and information from the Portal and Plan to support enhanced engagement with commercial and recreational fishermen in planning and environmental review of proposed activities.	BOEM's geodatabase continues to evolve and will inform the Portal; BOEM-specific data coupled with other spatial data within the Portal used as a tool to visually communicate the spatial relationship of proposed BOEM activities with other fishery use conflicts.	
E. BOEM will identify potential conflicts or concerns through review of data used for scoping and environmental analyses, and work with fishermen to identify high use areas early on to avoid use conflicts.	Ongoing	
Research Needs		
•		

Goal: Sustainable Ocean Uses –	Action: #6: Engage tribes in planning and environmental review of		
Sand Management	proposed activities		
Champion(s): Jeff Reidenauer (BOEM)			
Drogress Donorti Iuro November 2017			
rı	Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017		
1. BOEM engages with Federally-recognized tribes on projects and topics related to OCS sand, gravel, and shell resources through outreach initiatives	MidA RPB Tribal co-lead invited to BOEM's December 14, 2017 Mid-Atlantic Sand Management Working Group webinar.		
Progress on Best Practices: June – November 2017			
Best Practice 2.1.1	Ongoing		
Enhance Use of Data Portal			
Best Practice 2.1.2	Ongoing		
Enhance Participation in Agency			
Coordination			
Best Practice 2.1.3	 MidA RPB Tribal co-lead invited to BOEM's December 14, 2017 Mid-Atlantic 		
Enhance Coordination with Stakeholders	Sand Management Working Group webinar.		
Best Practice 2.1.4	Ongoing		
Enhance Federal-State Coordination			
Best Practice 2.1.5	Ongoing		
Enhance Federal-Tribal Coordination			
Work Plan: January - June 2018			
Steps	Milestones		
Verbatim from the Plan	Expected dates for steps and substeps to be taken		

A. BOEM will continue tribal consultations for enhancing understanding of submerged cultural resources potentially impacted by OCS sand management. B. BOEM will communicate sand resource management strategies to avoid use conflicts with tribal uses and submerged cultural resources.	BOEM will improve consultations and communication with federally-recognized tribes. Ongoing	
C. BOEM will communicate its science strategy and seek partnerships with other federal and state agencies for submerged cultural resource studies in its annual studies planning process and solicit feedback from tribes on priority research gaps.	Ongoing	
 D. BOEM will use data and information from the portal and from tribes to enhance planning and environmental review. 	Ongoing	
E. BOEM and other federal and state agencies should work with tribes when possible early in the project planning process to identify submerged cultural resource areas of high significance and avoid use conflicts.	 Work underway; BOEM will engage federally-recognized tribes in planning; will solicit feedback from tribes on priority research gaps BOEM archaeologist attending the Society for Historical Archaeology Annual Conference on Historical and Underwater Archaeology Jan. 3-7 	
Research Needs		
None identified to date.		

Goal: Sustainable Ocean Uses – **Non-Consumptive Recreation**

Action: #1: Identify, characterize, and share information about measures to maintain the recreational value of important non-consumptive recreational areas and the activities they sustain.

Champion(s): Elizabeth Semple & Kevin Hassell (NJ)

RPB Work Group Members: Doug Simpson (USCG – Coordinating Federal Entity), Amy Freitag (NOAA), Amy Stillings (BOEM), Catherine McCall (MD), Chris Darnell (USFWS), Karen Chytalo (NY DEC), Laura McKay (VA), Lisa Gutierrez (MD), Michael Snyder (NY DOS), Nicole Rodi (DE), Peter Clouse (NY DOS), Scott Steinback (NOAA), Sheryll Jones (NY DEC),

Technical Input: Jeanne Herb (Rutgers), Kate Morrison (MARCO), Matt Campo (Rutgers),

Progress Report: June – November 2017		
Milestones for January - December 2017	Progress through November 2017	
1. Develop a short survey for the public and stakeholders to be distributed through partners and stakeholder groups to account for the importance of recreational uses, the economic values, conflicts for and with recreational uses and impacts to natural resources.	 MARCO, in partnership with Rutgers and with input from the working group, developed the survey in spring-summer 2017. Working group members from each state developed contact lists for survey distribution, utilizing partner organizations and stakeholder groups wherever possible, to reach non-consumptive recreational activity participants and stakeholders. 	
2. Surveying of stakeholders will be implemented, through partner organizations wherever possible, to determine stakeholder views on the important issues and conflicts regarding nonconsumptive uses.	 The working group and technical partners deployed the survey in the summer of 2017 which saw the return of 1000 completed surveys. Preliminary findings from the survey served as a baseline for milestone 3. The data is still under review with technical partners and is addressed in future milestones below. 	
3. The Work Group will work with MARCO staff to hold meetings with stakeholders and the public	 MARCO, with assistance from WG members and support from Surfrider, held four public workshops from September to November 2017 to review preliminary survey 	

to provide opportunity for comment on survey results, identify impacts to/from important recreational uses, and identify ways to improve stakeholder engagement.	data and further discuss the importance of recreational uses; identify the economic values, conflicts for and with recreational uses, and impacts to natural resources; and identify ways to improve stakeholder engagement. The information received from these workshops is currently under synthesis by WG members and is addressed in future milestones below.		
Progress on Best Practices: June – November 2017			
Best Practice 2.1.1 Enhance Use of Data Portal	 Facilitators of MARCO workshops highlighted recreational use data on the data portal for attendees' awareness. 		
Best Practice 2.1.2 Enhance Participation in Agency Coordination	 State and federal agency representatives collaborated to receive stakeholder feedback via surveys and workshops and are working together in the analysis of the information. 		
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 MARCO workshops were intentionally designed to address improved practices for coordination with stakeholders. 		
Best Practice 2.1.4 Enhance Federal-State Coordination	 State and federal agency representatives collaborated to receive stakeholder feedback via surveys and workshops and are working together in the analysis of the information. 		
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	• NSTR		
	Work Plan: January - June 2018		
Steps Verbatim from the Plan	Milestones Expected dates for steps and substeps to be taken		
A. Define, in collaboration with stakeholders, what it would mean for ocean and coastal uses and areas to be considered important for non-consumptive recreation.	 Complete data synthesis from survey and workshops. March Document findings via white paper or other means for RPB consideration, including recommendations for further investigation or opportunities to publish to the data portal. June 		

A variety of factors may be considered (e.g., intensity of use, contributions to local economies, maintaining dark skies and natural sounds). Complete identification and mapping of such areas and put them on the Data Portal.	
B. Identify and assess potential impacts and use conflicts to important non-consumptive recreational uses from other human uses, as well as potential impacts and conflicts between non-consumptive recreational uses and marine and coastal resources.	[see milestone for step A above]
C. Work with USFWS to develop and disseminate guidance for recreational users on best practices that reduce potential impacts between recreational activities and marine and coastal wildlife.	Create white paper documenting best practices for RPB consideration. June
D. Identify, catalogue, and highlight potential improvements to current Federal, State, and Tribal authorities, standards, and processes for maintaining nonconsumptive recreational uses.	[Not addressing this step this period, but will incorporate any relevant information from stakeholder surveys and workshops.]

E. Convene stakeholders, the	In addition to the milestone for step A above, assess findings from public workshops to		
public, and RPB entities	determine whether further outreach is needed. April		
throughout the region to review	•		
findings and improve			
communication to increase			
understanding of recreational			
uses with and between agencies,			
stakeholders, and the public			
F. Develop and publicly post	[see milestone for step A above]		
report(s) for Federal agencies,			
States, Tribes, and the RPB on			
potential improvements to			
practices and processes as			
determined necessary, feasible,			
and appropriate.			
Research Needs			
 None identified to date. 	None identified to date.		

Goal: Sustainable Ocean Uses –		Action: The RPB is interested in addressing potential options to make	
Enhancing Coastal Zone Management		CZMA decisions in a more efficient, streamlined, and coordinated	
		manner. NOAA and the Mid-Atlantic States may choose to further	
		develop these options most likely in coordination with the NE RPB, which	
		is also exploring these options.	
Champion (a), National Occasions	d A+		
Champion(s): National Oceanic an	a Atmospi	neric Administration	
	Pr	ogress Report: June – November 2017	
Milestones for January - December 2017		Progress through November 2017	
Option 1. Earlier Federal Notice to States and Tribes/Using data portal for early notification		re has been no new activity on this item. However, it could be something to explore if states federal agencies want to do so.	
Option 2. Improve States' ability to execute CZMA Federal Consistency in the offshore space/Coastal effects analyses	Sum addi prog anal the I 7852	A held a webinar on using the regional plan and data portal for coastal effects analyses in the mer 2016 and at the Northeast Regional Ocean Council winter meeting in February 2017. In tion, NOAA published a proposed rule in the Federal Register in late 2016 for changes to state grams that contains the latest guidance for what a state needs to do to make an effects ysis. The link can be found at: https://www.coast.noaa.gov/czm/consistency/rulemaking/ and FR notice at: https://www.coast.noaa.gov/czm/consistency/media/Proposed-Rule-81-FR-14-78526-11.8.16.pdf The new proposed regulation section is 15 CFR 923.84(d) and the imble discussion begins on page 78520 (col. 3). NOAA is currently working on the final rule.	
Progress on Best Practices: June – November 2017			
Best Practice 2.1.1	•		
Enhance Use of Data Portal			
Best Practice 2.1.2	•		

Enhance Participation in Agency

CoordinationBest Practice 2.1.3

Enhance Coordination with		
Stakeholders		
Best Practice 2.1.4	•	
Enhance Federal-State		
Coordination		
Best Practice 2.1.5	•	
Enhance Federal-Tribal		
Coordination		
Work Plan: January - June 2018		
Steps	Milestones	
Verbatim from the Plan	Expected dates for steps and substeps to be taken	
A. TBD		
Research Needs		
• TBD		

Mid-Atlantic Ocean Data Portal

(MARCO's Ocean Mapping & Data Team serves as the work group for the portal actions.)

Champion: Laura McKay (VA)

Members: Federal Reps: Megan Treml (NOAA), Christine Taylor, Lora Turner, Josh Wadlington (BOEM); Elizabeth Pendleton (USGS); Doug Simpson (USCG); Joe Atangan, Sarah Bowman (DoD); Sherilyn Lau (EPA); Hoyt Battey (DOE); George Jackson (DOT/MARAD); Pam Toschik, Caleb Spiegel (USFWS); State Reps: Nick Meade (VA); Kim Hernandez, George Edmonds (MD); Nicole Rodi (DE); Kevin Hassell(NJ); Jeff Herter, Mina Innes, Melissa Albino, Alex Kuttesch (NY); Tribal Rep: Kelsey Leonard (Shinnecock Tribe); MAFMC Rep: Stewart Michels (DE)

Technical Team: Tony MacDonald, Karl Vilacoba (Monmouth University); Chris Bruce (TNC); Rick Lathrop, John Bognar, Jim Trimble (Rutgers University); Nick Napoli (MARCO contractor); Kate Morrison (MARCO)

	Progress Report: June – November 2017		
	Milestones for January - December 2017	Progress through November 2017	
1.	Develop a range of levels of portal maintenance and updating options and associated costs.	Over the last several months, the Portal team and MARCO developed a budget to maintain and update the Portal in 2018. This budget takes into consideration previous costs, cost shares with the Northeast and the Marine Cadastre, and expectations of in-kind agency support. The 2018 budget, previous budgets, and an initial assessment of different Portal funding scenarios that was developed in early 2017 will be the basis of an assessment, to be completed in 2018, of options and costs for maintaining the Portal over the long-term.	
2.	Convene RPB entities or data relevant to the continued maintenance and updating of the Data Portal to prioritize operational needs, agree to appropriate roles and discuss partnerships options.	MARCO's expanded Ocean Mapping & Data Team (OMDT) serves as the primary work group for coordinating the RPB's portal actions. The OMDT met twice during the time period (Jul 26 and Oct 25 of 2017) to review and inform progress on current data development tasks, identify potential portal case studies and ocean stories, review new data and functionality requests, and to inform RPB member trainings.	

3.	Identify partnership and
	collaboration
	commitments to meet
	ongoing needs.

The Mid-Atlantic portal team continues to maintain important partnerships and ongoing activities in close collaboration with the Northeast Ocean Data Portal and the Marine Cadastre for some of the most important data assets, including data related to the "security," "maritime," "fishing" and "marine life" themes. These partnerships have led to shared development of draft data products and coordinated stakeholder and scientific review of those draft data products across regions. The portal team also continues to partner with MARACOOS and the Mid-Atlantic Coastal Acidification Network to inform products for the portal's "Oceanography" theme.

 Continue to develop and integrate new data and updated layers from a variety of sources in consultation with RPB member entities and stakeholders. During this period, the portal team made the following progress developing or updating datasets:

- Oceanography: Added a dataset depicting ocean acidification monitoring locations in collaboration with the RPB's Ocean Acidification Work Group/Mid-Atlantic Coastal Acidification Network.
- <u>Marine life</u>: Added two map layers depicting the extent of estuarine wetlands and seagrasses.
- <u>Socioeconomic:</u> Added a new map layer showing population density for coastal counties.
- <u>Security:</u> Added a new collection of Security maps, hosted by the Marine Cadastre, that reflect updates made by the Department of Defense.
- Renewable Energy: Added a new layer showing the offshore wind "Area of Consideration" proposed by the State of New York.
- <u>Fishing</u>: Developed draft "Communities at Sea" data and provided the data to the northeast. Integrated draft "Vessel Monitoring System" data developed by the northeast. Began reviewing both datasets with the RPB and the fishing community.
- <u>Maritime</u>: Collaborated with the Northeast to develop and review initial data products depicting vessel traffic from the "Automatic Information System"

In addition, portal team members continue to participate in OAP work groups to assess functionality and data needs, including non-consumptive recreation, ocean acidification, maritime commerce and navigation, ecologically rich areas, mapping species shifts, and healthy ocean indicators.

5.	Continue and/or expand efforts to manage and publish authoritative Federal agency data in a timely and readily usable form such as web services, through mechanisms such as data sharing agreements among RPB member entities.	Several datasets in the Portal are provided by the Marine Cadastre, which works with federal agencies to publish authoritative federal data for consumption by regional portals and other users. During the time period, the Portal team transitioned all the Security datasets and a data layer of marine jurisdictions to web services provided by the Marine Cadastre. This transition enables those federal datasets to be maintained and updated by the responsible agencies over the long term and reduces the resources required by the Portal team to host and maintain these datasets. Continued engagement with the federal agencies through the OMDT and other RPB work groups will help to ensure that data products derived from federal sources are informed and increasingly maintained by federal agencies over the long-term.
6.	Further explore opportunities to capture Tribal data on the Data Portal.	On Nov 30 a request was sent to the Tribal Co-lead for a list of species of Indigenous cultural importance. This information is to be cross-checked with species data already contained in the marine life data and a way to highlight those species needs to be developed.
7.	Compile and post on the Data portal user success stories of applications of the Data Portal to ocean planning decisions through engagement with RPB member entities and stakeholders.	The portal includes nine ocean stories describing different uses of Portal data. Since June of 2017, the portal team developed a new page with shorter "use examples" that describe the use of the portal by agencies, industry, and educators. The Portal team is also developing a new design for the portal home page, which will make ocean stories and use examples more accessible to users.
8.	Expand Federal agency data managers' participation in relevant RPB work groups and the MARCO OMDT and help leverage their agencies' assets.	Increased federal agency participation in the OMDT has led to collaborations around the integration of federal data assets into the Portal, including data related to maritime, security, and fisheries. The portal team also collaborated with BOEM and NOAA to provide smart links to BOEM's Environmental Studies Program Information System (ESPIS) which enable Portal users to search ESPIS for environmental studies related to any specific layer on the Portal.

Progress on Best Practices : June - November 2017	
Best Practice 2.1.1 Enhance Use of Data Portal	N/A - see other actions for updates.
Best Practice 2.1.2 Enhance Participation in Agency Coordination	 The expansion of the Ocean Mapping Data Team has ensured additional staff from each of the federal agencies with particular, relevant GIS responsibilities is included on the team.
Best Practice 2.1.3 Enhance Coordination with Stakeholders	 The portal team attended various workshops with stakeholders including the July Indicators Workshop, the November Mid-Atlantic Fishery Management Council meeting and several portal training workshops.
Best Practice 2.1.4 Enhance Federal-State Coordination	 The expansion of the Ocean Mapping Data Team has ensured additional staff from each state with particular, relevant GIS responsibilities is included on the team. There are now at least two reps from 3 of the 5 states.
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	No real progress to date but see work plan below.
	Work Plan: January - June 2018
Steps Verbatim from the Plan	Milestones Expected dates for steps and substeps to be taken
1.A. Develop a range of levels of portal maintenance and updating options and associated costs	In 2018, MARCO, the OMDT, and the portal team, in collaboration with the Northeast, will develop a paper describing options for updating and maintaining the Portal over the long-term. It will take into consideration different aspects of Portal operations, including data updates, IT infrastructure, stakeholder outreach, trainings, coordination across regions and with data providers, and potential funding sources. • Jan 2018: Initial discussion at RPB meeting about primary areas of portal operations and associated funding requirements

	 Jan - Jun 2018 (and likely into fall 2018): Meet with RPB entities, data providers, and stakeholders to identify potential options for maintaining each aspect of Portal operations over the long-term.
1.B. Convene RPB entities or data relevant to the continued maintenance and updating of the Data Portal to prioritize operational needs, agree to appropriate roles and discuss partnerships options.	• The OMDT will serve as a critical resource for reviewing pending data updates, identifying data needs, informing options for the long term maintenance of the Portal, and for developing related partnerships that will be necessary to sustain portal data and operations. The OMDT will continue to meet quarterly (Jan 31, and April) and members will be engaged in relevant data updates in between meetings. RPB members and staff outside of the OMDT will also be critical to informing data updates and will also be engaged to ensure long term options for the Portal are informed by the most relevant agency staff and leadership.
	 In addition, the Portal team will collaborate and coordinate with RPB work groups to define and implement data and functionality requirements. This includes coordinating with the Healthy Ocean Ecosystem Indicators Work Group to support the identification of indicators, data supporting those indicators, and potential display options through the portal.
1.C. Identify partnership and collaboration commitments to meet ongoing needs.	Continued partnerships and collaborations with the Northeast, Marine Cadastre, and MARACOOS will be critical to implementing this work plan and sustaining the Portal. Over the course of 2018, MARCO and the portal team will need to build on partnerships with data providers at certain federal agencies, including NOAA Fisheries, USFWS, and USCG, in order to maintain and identify long term options for the most critical data assets in the portal.
2.A.Continue to develop and integrate new data and updated layers from a variety of sources in consultation with RPB member entities and stakeholders.	 2018 milestones for new or updated data layers to be added to the Portal are: Fishing: Complete stakeholder outreach and review of draft layers and add Communities at Sea and Vessel Monitoring System data to the public site in late winter or early spring with appropriate metadata and caveats. Maritime: Complete stakeholder outreach and review of draft layers for 20XX and add vessel traffic map layers derived from the Automatic Identification System data to the public site in spring with appropriate metadata and caveats.

- <u>Sand</u>: Integrate sand resource potential areas from BOEM's Marine Minerals Information System to the Portal by mid-2018.
- Oceanography: Develop a plan to identify and integrate key oceanography data products into the Portal with input from MARACOOS by June 2018.
- Marine life: Update the marine mammal and avian data products with new outputs from the revised models developed by Duke and NOAA by mid-2018. Point users to additional sources of information, including additional products and map layers produced by NOAA, USFWS, and whale watch operations. Determine how to integrate Northeast Fisheries Science Center time series products for MidA fish species into the Portal. Work with MDAT as additional data become available reflecting fish distribution and abundance for spring, summer and fall seasons.
- <u>Socioeconomic:</u> Integrate datasets from MARCO's Climate Change Vulnerability Study.
- <u>Data Review</u>: Conduct a thorough review of Portal datasets by early 2018 to determine which datasets need to be updated and/or could be maintained by an authoritative provider. Coordinate next steps for data updates or long-term maintenance with the OMDT.
- 2.B Continue and/or expand efforts to manage and publish authoritative Federal agency data in a timely and readily usable form such as web services, through mechanisms such as data sharing agreements among RPB member entities.

During the first half of 2018, the portal team and the OMDT will continue identify federal datasets that could be maintained over the long-term by the authoritative provider, potentially leading to an increase in datasets that are updated or maintained through web services or data sharing agreements and a decrease in datasets that are hosted by the portal team. It is important to note that several tasks in early 2018 will inform this, including a complete review of the datasets that are accessed through the Portal and the identification of long-term options for the maintenance of the Portal. Therefore, there may not be significant changes in the way data are served during the first six months of 2018, but instead significant progress towards identifying which potential changes are most advantageous.

2.C Further explore		
opportunities to capture		
Tribal data on the Data		
Portal.		

Once a list of species of Indigenous cultural importance is received, these will be cross-checked against species data already in hand. A mechanism for highlighting these species will be explored and data for any species missing from the MDAT list will be noted and sought.

3.A Compile and post on the Data portal user success stories of applications of the Data Portal to ocean planning decisions through engagement with RPB

Over the next six months the OMDT and the portal team expect to prioritize the development of new ocean stories and "use examples" describing different applications of the Portal. Potential topics under consideration include:

- Ocean economics
- Sand management
- Whale watch operators
- Undersea cable permitting and installation
- Offshore wind
- Fisheries
- Shipwrecks

RPB members and stakeholders are encouraged to provide stories and/or story ideas.

3.B Expand Federal agency data managers' participation in relevant RPB work groups and the MARCO OMDT and help leverage their agencies' assets.

Over the next six months, the OMDT and portal team expect to continue collaborations with federal agency data managers, especially around previously described data assets that will require agency commitments to maintain over the long term. The portal team will continue to participate in relevant work groups as needed such as ERAs, Mapping Species Shifts, and Healthy Ocean Indicators.

Research Needs

- Sea turtle data
- Continental shelf coral data
- Large pelagic or migratory fish species data
- Recreational activity data
- Seafloor habitat data

Goal: Actions Related to Science and	Action: #1: Identify priority applied science and research needs	
Research	for the Mid-Atlantic region.	
Champion(s): Joe Atangan (Joint Staff/Navy)		
Progress	Report: April – September 2017	
Milestones for January - December 2017	Progress through September 2017	
1. Submit topic area inputs for inclusion in the Subcommittee on Ocean Science and Technology (SOST) "Plan for Ocean Research in the Coming Decade."	Jan 2017: Northeast and Mid-Atlantic RPB Federal co-leads submitted a letter to the SOST identifying science and research priorities for consideration as part of the upcoming 10-Year Ocean Research Plan.	
2. Solicit inputs from Working Groups, science and research needs.	 Sept 2017: Working Groups tasked with identifying research needs in semi-annual Progress Reports submitted in Dec 2017. Inputs will be compiled and forwarded to the full RPB for review in March 2018 	
Progress on	Best Practices: April – September 2017	
Best Practice 2.1.1 Enhance Use of Data Portal	No actions to date.	
Best Practice 2.1.2 Enhance Participation in Agency Coordination	No actions to date.	
Best Practice 2.1.3 Enhance Coordination with Stakeholders	No actions to date.	
Best Practice 2.1.4 Enhance Federal-State Coordination	No actions to date.	
Best Practice 2.1.5 Enhance Federal-Tribal Coordination	No actions to date.	
Work Plan: January - June 2018		

Steps	Milestones
Verbatim from the Plan	Expected dates for steps and substeps to be taken
A. Identify potential applied science and research gaps, develop criteria for how to determine which should be deemed regional priorities, consult stakeholders to understand their perspectives on research needed to improve management, and review existing regional research agendas to identify areas of common interests, whether or how common research needs are being addressed, opportunities for collaboration, and other factors. (short-term) B. Convene scientists, resource managers, Traditional Knowledge holders, and stakeholders to review potential priority research gaps identified in step A. This will include discussion of current relevant research, criteria for determining which are regional priorities, and partnership and support opportunities. (short-term)	 Jan 2018: Consolidate science and research needs identified in the semi-annual progress reports. Jan – May 2018: RPB establish a select committee to: Develop criteria for how to determine which should be deemed regional priorities. Review existing regional research agendas to identify areas of common interests Jun 2018: Submit criteria to RPB for review. TBD: Develop a stakeholder consultation plan. TBD: Nominate reviewers.
C. Provide to the RPB for approval a compiled list of applied research topics targeted to address specific inter-jurisdictional coordination actions identified in this Plan and/or other actions that support the Framework goals and objectives. (short-term)	 TBD: Submit compiled list of applied research topics to RPB for approval.

D. Share the information with interested parties by making the list available for use by resource managers, scientists, and other sources of potential support. (short-term)	TBD: RPB promulgates prioritized list of research topics.
E. With input from the RPB member entities, the RPB Federal agencies will discuss regional ocean science and research gaps, including identifying opportunities, as appropriate, for coordination and collaboration with the Subcommittee on Ocean Science and Technology and work with the NOPP to facilitate discussion and support of potential research projects. (short-term and ongoing)	 TBD: RPB discuss regional ocean science and research gaps for coordination and collaboration with the Subcommittee on Ocean Science and Technology. TBD: RPB works with the NOPP to facilitate discussion and support of potential research projects.
F. Address science and research needs important to Tribal entities, for example valuing Traditional Knowledge, and furthering our understanding of submerged cultural resources. (short-term and ongoing)	Jan – May 2018: Engage with Tribal entities to identify science and research needs.
Research Needs	
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DRAFT Performance Monitoring and Evaluation (PM&E) Tracker

The Mid RPB has developed this report for tracking the progress of actions listed in the *Mid-Atlantic Region Ocean Action Plan* (https://www.boem.gov/Mid-Atlantic-Regional-Ocean-Action-Plan/). The scope of this document includes actions undertaken through November of 2017. Note that some coordination actions are not covered in this update because they either do not have specific planned activities in 2017 or may be addressed in future years.

Over the past year, the MidA RPB has sought success stories on how implementation of the *Mid-Atlantic Regional Ocean Action Plan* has enhanced intergovernmental coordination and informed the condition of and uses proposed for our ocean waters. Several of these stories are documented on the Mid-Atlantic Ocean Data Portal (http://portal.midatlanticocean.org/ocean-stories/every-map-tells-a-story/.) Since the *Plan* and our implementation efforts are relatively new, the MidA RPB is still considering approaches for evaluating performance or documenting effectiveness. While the exact form and process has not been decided, the MidA RPB is committed to an evaluation of our progress will information any efforts to revise the *Plan* in the future.

The MidA RPB will continue to ask action champions to submit information, on a semi-annual basis, on the status of their efforts. The information will be compiled into a single progress report that reflects the status of Plan implementation that will be shared with the public.