

August 17, 2009

Mr. J. Michael Saul  
Interim Executive Director  
The Rhode Island Economic Development Corporation  
315 Iron Horse Way  
Providence, RI 02908

Dear Director Saul:

On behalf of the Rhode Island Coastal Resources Management Council's Ocean SAMP subcommittee, I respectfully submit the fourth period narrative and financial Ocean SAMP progress report which was approved by the subcommittee on August 13, 2009. An electronic version will be e-mailed for your records.

The Ocean SAMP continues to make progress in the areas of engaging the public and research. We continue to work effectively and efficiently with the assigned budget, and have built a strong team to carry out SAMP activities.

Thank you for reviewing the attached progress report. My contact information is listed on the cover page of the document.

Sincerely,

A handwritten signature in cursive script that reads "Grover J. Fugate".

Grover Fugate  
Executive Director, Rhode Island Coastal Resources Management Council  
On behalf of the CRMC Ocean SAMP Subcommittee

**RHODE ISLAND RENEWABLE ENERGY DEVELOPMENT  
FUND SPECIAL AREA MANAGEMENT PLAN**

Fourth Period Narrative and Financial Report

(April 1, 2009 – June 30, 2009)

**RHODE ISLAND RENEWABLE ENERGY DEVELOPMENT FUND SPECIAL AREA  
MANAGEMENT PLAN  
Fourth Period Narrative and Financial Report (April 1, 2009 to June 30, 2009)**

**Submitted to:**

The Rhode Island Economic Development Corporation (RIEDC), 315 Iron Horse Way, Suite 101, Providence, RI 02908, Attn: J. Michael Saul

**Narrative and Financial Report:**

Fourth period (**April 1, 2009 to June 30, 2009**) Narrative and Financial Report for the Rhode Island Renewable Energy Development Fund/Ocean Special Area Management Plan

**Submitted by:**

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## FOURTH PERIOD OCEAN SAMP EXECUTIVE SUMMARY

The Rhode Island Coastal Resources Management Council's Ocean Special Area Management Plan (Ocean SAMP) continues to make significant progress during this time period. The following is a summary of progress to date, based on the Goals specified in the work plan:

**Goal 1: Assemble background** information on the project boundary's natural features, human activities, and policy and procedures to assist in the understanding of this Ocean SAMP region.

**Summary:** Project team continues to meet periodically with both Federal and State agencies to provide updates, and review research results and scopes of work for new research. These meetings clarify SAMP development regulatory requirements and processes for CRMC consideration and rule making. Equally important, the team continues to hold Ocean SAMP stakeholder meetings to ensure that key constituencies, including commercial and recreational fishermen, recreational users (e.g. marine trades, chambers of commerce, and tourism councils), and marine transportation experts and organizations can understand, and fully participate in, the SAMP development process. The meetings focus on issues of concern, such as the potential impacts of wind turbines on fisheries and recreation, and have enhanced topical data collection. Other major issues include navigation, access, and impact on fish and other wildlife. Ultimately, information gathered through outreach activities involving a wide array of constituencies and government agencies will help CRMC make better management decisions for Rhode Island's ocean resources.

At the same time, researchers are implementing activities to better understand the natural ecosystem of Rhode Island's ocean waters (see Attachment B). For example, Dr. Robert Kenney has completed his research on marine mammals and sea turtles, and publically shared his findings June 30, 2009 at a stakeholder meeting. A final report will be available Summer 2009 following a peer-review process required for all SAMP technical documents. In other activity, CRMC has successfully secured additional funds from the U.S. Department of Energy and the Rhode Island Economic Development Corporation primarily for generating new scientific information for the study area.

**Goal 2. Identify best practices** and strategies for overcoming obstacles in planning, policy, and implementation of marine renewable energy that can be transferred to the Ocean SAMP initiative based on a comparative assessment of lessons learned from other initiatives in the United States and worldwide. Evaluate what works and what does not work in the Ocean SAMP initiative so that this model effort can be used as a case study for future efforts.

The Ocean SAMP team is nearing completion of a comparative assessment as a tool to identify lessons learned from experience elsewhere to inform the Ocean SAMP process and plan and to serve as model guidance so ocean zoning efforts in the future can more deftly accommodate shifting social, economic and political conditions. This methodology draws upon the indicators for assessing progress in ecosystem based management developed for the United Nations Environment Program (UNEP/GPA. 2006) and a recently released handbook entitled "The Analysis of Governance Responses to Ecosystem Change" (Olsen,

Page and Ochoa, 2009) published by the international Land-Ocean Interactions in the Coastal Zone (LOICZ) Program. Both documents draw upon the Orders of Outcomes framework (Olsen, 2003) and the management cycle (GESAMP, 1996) as frameworks for the analysis of the practice of ecosystem-based management (McLeod, 2005). The purpose of this comparative assessment, largely the "SAMP story," is to document baseline conditions for the governance dimensions of the SAMP process to help track progress and plan future activities. This research identifies lessons learned from the planning and adoption phases of the SAMP and speaks to the initial construction stages of the anticipated wind farm. We will work to implement the following actions: This information will be shared with SAMP advisors, the team, and stakeholders as a means of showing in a clear and transparent manner how practitioners turn to experience from elsewhere to improve SAMP model performance for both here and other places.

***Goal 3. Engage a well informed and well represented constituency that understands the Ocean SAMP issues and is involved in the creation of the Ocean SAMP.***

The Ocean SAMP team recognizes the value of engaging all stakeholders throughout the process. During this time period, the Ocean SAMP team provided a three-day event to engage participants in discussions about Ocean SAMP process and content. Experts, including two researchers studying tested European wind farms, engaged audiences in dialogue about potential impacts of offshore wind turbines on the natural environment. Summary notes for these events are in Attachment A. The CRMC subcommittee continues to meet periodically to review all aspects of the Ocean SAMP process, and stakeholder meetings continue to be a major anchor for communication with constituencies. The two meetings (April 4 and June 30) for this time period were well attended and focused on the latest research results for the topics of acoustics and for marine mammals and sea turtles. The Science Advisory Task Force has also been active, both reviewing technical reports and providing advice on the science that is being collected and incorporated into the SAMP. Summary notes for each meeting are available for review. Finally, a public lecture series is underway; a Global Climate Change talk took place on June 18 at the Newport Public Library and brought forth discussion about how the Ocean SAMP is a tool for climate change mitigation (see Attachment A for a meetings list).

***Goal 4: Develop a SAMP for Rhode Island's Coastal waters that serves as a tool to encourage regulatory and management coordination and consistency among Rhode Island state agencies (CRMC, OER, DEM), federal agencies (U.S. Department of Energy, ACOE, MMS, and the U.S. Federal Energy Regulatory Commission), neighboring states (MA, CT, NY) and other public entities, developers, and environmentalists within this project area.***

The Ocean SAMP project team is developing text for the Ocean SAMP document. A detailed table of contents has been created for the majority of chapters (see Attachment C). This table of contents has been developed by reviewing appropriate sections from other SAMPs, relevant components of the Cape Wind EIS, MMS regulations, and the MMS programmatic EIS. Most of the table of contents has been shared with stakeholders to provide them with an opportunity to comment. The policy and writing team is also meeting with the researchers to ensure that relevant research is incorporated into these chapters and that the drafting follows a timeline.

## **Workplan (August 2008-July 2010): Summary Goals and Objectives**

**Goal 1: Assemble background information on the project boundary's natural features, human activities, and policy and procedures to assist in the understanding of this Ocean SAMP region.**

**Objective 1:** Engage state, federal and regional agencies to ensure project is collecting appropriate and necessary information to meet state/federal requirements and to create a forum for information exchange, coordinated coastal and ocean management, and learning.

**Objective 2:** In coordination and with support from Ocean SAMP researchers, develop background information on existing conditions for major human activities.

**Objective 3:** Create consistent background papers on existing conditions for major natural features based on technical information created by Ocean SAMP researchers.

**Objective 4:** Research and provide information on existing policies, procedures and governance frameworks for natural features and human activities within the Ocean SAMP

**Goal 2. Identify best practices and strategies for overcoming obstacles in planning, policy, and implementation of marine renewable energy that can be transferred to the Ocean SAMP initiative based on a comparative assessment of lessons learned from other initiatives in the United States and worldwide. Evaluate what works and what does not work in the Ocean SAMP initiative so that this model effort can be used as a case study for future efforts.**

**Goal 3. Engage a well informed and well represented constituency that understands the Ocean SAMP issues and is involved in the creation of the Ocean SAMP.**

**Objective 1:** Develop a formal process to ensure that all stakeholders and citizens have an opportunity to engage in the process.

**Objective 2:** Organize and/or support existing events that offer project team and stakeholders an opportunity to better understand issues including ocean zoning, impacts of renewable energy activities on existing human activities and natural features and other related topics.

**Objective 3:** Develop communication tools that will provide up-to date information for all interested citizens and interest groups.

**Goal 4: Develop a SAMP for Rhode Island's Coastal waters that serves as a tool to encourage regulatory and management coordination and consistency among Rhode Island state agencies (CRMC, OER, DEM), federal agencies (U.S. Department of Energy, ACOE, MMS, and the U.S. Federal Energy Regulatory Commission), neighboring states (MA, CT, NY) and other public entities, developers, and environmentalists within this project area.**

**Objective 1:** Develop siting criteria that will serve as a mechanism to promote the identification of appropriate sites for the installation of permanent structures.



**Objective 2:** Develop new policies and procedures for renewable energy activities

**Objective 3:** Develop the SAMP document as described in the Ocean SAMP.



Workplan Status: Progress Period Four






Goal 1: Assemble background information on the project boundary's natural features, human activities, and policy and procedures to assist in the understanding of this Ocean SAMP region.

Objective 1: Engage state, federal and regional agencies to ensure project is collecting appropriate and necessary information to meet state/federal requirements and to create a forum for information exchange, coordinated coastal and ocean management, and learning.


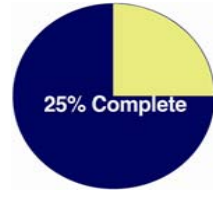



Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.01	Engage appropriate Rhode Island state agencies and neighboring state agencies.	Organize periodic meetings with RI state agencies engaged in coastal/ocean management related issues to ensure there is a formal mechanism to engage these entities into the effort. Engage CT, MA, and NY state agencies on an ad hoc basis to ensure their involvement.	State agencies are engaging in the process to ensure that state policies are coordinated.	Ongoing	<ul style="list-style-type: none"> <li>DEM attended meetings related to both the Ocean SAMP fisheries work and coordination with federal agencies</li> <li>Team met with Mass, Delaware, and Maine agencies and institutions to share data &amp; lessons learned.</li> </ul>	
G1.01	Engage Federal agencies.	Organize periodic meetings with federal agencies, including MMS, ACE, NMFS, EPA, etc. to ensure that there is a formal mechanism to engage these entities into the effort.	Federal agencies are engaging in the process to ensure that state policies are coordinated.	Ongoing	<ul style="list-style-type: none"> <li>Team continues to meet with key federal agencies (MMS, ACOE, FWS, EPA, NOAA) to discuss regulatory requirements, studies, and procedures.</li> </ul>	






Objective 2: In coordination and with support from Ocean SAMP researchers, develop background information on existing conditions for major human activities.





G1.02	Develop a table of contents for the presentation of each topic.	This table of contents will ensure that all researchers are presenting their data in a consistent format. This will assist project team in the synthesis of this information.	Consistently presented information.	Sep-08	<ul style="list-style-type: none"> <li>Completed Sept 08, but being revised appropriately.</li> </ul>	
G1.02	Develop SAMP questions	These questions will be presented to all researchers to encourage them to think about the SAMP as an ecosystem and how it relates to their topic.	Topic information is integrated into discussions about the ecosystem.	Oct-08	<ul style="list-style-type: none"> <li>Completed Oct. 08.</li> </ul>	



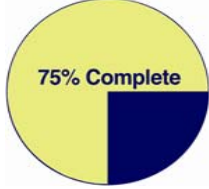

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.02	Commercial and Recreational Fisheries	Meet with key fisheries organizations and review appropriate plans to identify: 1) existing and potential future recreational activities; 2) issues of concern with existing activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text. Updated commercial and recreational usage maps. Fisheries sector engaged in process.	3/1/2009, Ongoing	<ul style="list-style-type: none"> <li>Activities completed, however due to the nature of this project, team continues to engage com/rec fishermen to discuss federal/state regulatory process, review issues/concerns, and incorporate fishermen's expertise into the process.</li> </ul>	
G1.02	Recreational Activities	Meet with key recreational organizations (public/private) and review appropriate state/federal recreation plans to identify: 1) existing and potential future recreational activities; 2) issues of concern with existing activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text. Recreational sector formally engaged in process	3/1/2009, Ongoing	<ul style="list-style-type: none"> <li>Activities completed, however due to the nature of this project, team continues to engage stakeholders to identify issues/concerns, opportunities, use of study area, existing data, for Ocean SAMP.</li> </ul>	
G1.02	Marine Transportation	Work with Spaulding et. al. to summarize this issue. If necessary, meet with key organizations (public/private) and review appropriate state/federal marine transportation plans to identify: 1) existing and potential future activities; 2) issues of concern with existing activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text. Marine transportation sector formally engaged in process.	3/1/2009 (revised expected completion 10/09)	<ul style="list-style-type: none"> <li>Completion of final report progressing.</li> </ul>	
G1.02	Military uses	Meet with federal agencies to identify: 1) existing and potential future activities; 2) issues of concern with existing/future activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text.	7/1/2009, (revised expected completion 10/09)	<ul style="list-style-type: none"> <li>Text being written up on existing information for incorporation into SAMP. Meeting with Navy requested to confirm and enhance data.</li> </ul>	
G1.02	Installed infrastructure (cables)	Meet with federal/state agencies to identify: 1) existing and potential future infrastructure and activities; 2) issues of concern with existing/future activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text.	7/1/2009, (revised expected completion 10/09)	<ul style="list-style-type: none"> <li>Text being written up for incorporation into SAMP.</li> </ul>	












Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.02	Dredged material disposal sites	Meet with federal/state agencies to identify: 1) existing and potential future infrastructure and activities; 2) issues of concern with existing/future activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text.	7/1/2009, (revised expected completion 10/09)	Text being written up for incorporation into SAMP.	
G1.02	Aesthetic values	Meet with interested organizations (public/private) and review appropriate plans to identify: 1) issues of concern with existing activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text.	7/9/2009, (revised expected completion 02/10)	<ul style="list-style-type: none"> <li>Due to the nature of this issue, including how MMS is handling this issue related to Cape Wind, team continues to work with aesthetics experts to determine best approach to handle this issue for the SAMP.</li> </ul>	
G1.02	Acoustic Noise and Electromagnetic Effects	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	7/9/2009 (revised expected completion 12/09)	<ul style="list-style-type: none"> <li>Air acoustic data collection begun and analysis started; EM data collection plan begun, sensors being assembled; EM effects on fish and other animals researched</li> </ul>	
G1.02	Cultural resources	Meet with federal/state agencies and others to identify: 1) cultural resources; 2) issues of concern with existing/future activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text.	7/9/2009, (Revised expected completion 01/10)	<ul style="list-style-type: none"> <li>Review of State/Fed requirements completed. Meetings with Fed (including Narr Tribe) and State agencies ongoing.</li> </ul>	
G1.02	Marine Archeology	Work with Rod Mather, marine archaeologist, to summarize this issue. If necessary, meet with key organizations (public/private) and review appropriate state/federal marine transportation plans to identify: 1) existing and potential future activities; 2) issues of concern with existing activities; and 3) potential conflicts/ enhancements concerning renewable energy activity.	Background document with maps and text.	Jul-09	<ul style="list-style-type: none"> <li>Assess the potential for submerged historic and prehistoric archaeological sites within SAMP areas with first existing data and then newly acquired geophysical survey data. New data analysis underway.</li> </ul>	

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.02	Other possible uses	If necessary present information on other potential future activities, including: 1) issues of concern with existing activities; and 2) potential conflicts/ enhancements concerning renewable energy.	Background document with maps and text.	7/9/2009, (revised to 02/10)		
G1.02	Interdisciplinary solutions	Review the possibilities of interdisciplinary solutions to address SAMP issues to: 1) Realize economic value-add; and 2) Emphasize the connections among and interrelatedness of SAMP issues.	Background document with maps and text.	7/9/2009, (revised to 3/10)		
<b>Objective 3:</b> Create consistent background papers on existing conditions for major natural features based on technical information created by Ocean SAMP researchers.						
G1.03	Develop a table of contents for the presentation of each topic	This table of contents will ensure that all researchers are presenting their data in a consistent format. This will assist project team in the synthesis of this information.	Consistently presented information	Sep-08	• Completed.	
G1.03	Marine Mammals	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	7/1/2009, (Revised expected completion 09/09)	• Study being peer -reviewed. Dr. Robert Kenney presented results at June Stakeholder meeting.	
G1.03	Sea Turtles	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	7/1/2009, (Revised expected completion 09/09)	• Study being peer -reviewed. Dr. Robert Kenney presented results at June Stakeholder meeting.	






Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.03	Avian Species	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	Jul-09	Compiled data from USFWS, DEM, Kingston Wildlife Research Station, and URI; Collected data from 1 April to 30 June, 24 hrs per day, 7 days per week; Initiated offshore transect surveys S and E of Block Island; Collected radar data from 1 April to 30 April 2009 at SW corner of island.	
G1.03	Fishery resources	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	7/1/2009, (revised expected completion June 2010)	• Team continues to collect, analyzing and writing up existing information on topic. CRMC is waiting to receive requested data from NOAA on this issue.	
G1.03	Bottom Characteristics	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	Jul-09	• Conduct coarse resolution, geophysical, geological, biological surveys & ground truth studies; Mapped 90% of expanded area J to the W & S of BI; Develop a GIS data layer of regional subsurface geology, geological and biological habitats.	
G1.03	Physical Oceanography	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	Jul-09	• Advance preparations for upcoming SAMP fieldwork are time intensive as they involve cruise planning and instrument assembly.	






Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.03	Water Productivity / Ecology	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	Jul-09	<ul style="list-style-type: none"> <li>Because upcoming SAMP PO fieldwork is time-sensitive in order to achieve Fall 2009 sampling, it has been prioritized ahead of this review/analysis.</li> </ul>	
G1.03	Winds, Waves and currents	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	Jul-09	<ul style="list-style-type: none"> <li>Advance preparations for upcoming SAMP fieldwork are time intensive as they involve cruise planning and instrument assembly.</li> </ul>	
G1.03	Air Quality and meteorology	Work with researchers to format and synthesize information for appropriate incorporation into the SAMP document.	Background document with maps and text.	Jul-09	Gathered data and performed preliminary analysis; Taking account of suggestions from DEM in regard to air emission impacts of construction project.	
<b>Objective 4: Research and provide information on existing policies, procedures and governance frameworks for natural features and human activities within the Ocean SAMP</b>						
G1.04	State Policy Assessment	Review State Guide Plan elements & other relevant local plans; Prepare detailed summary of policy-related issues.	Document that presents this research and analysis.	Mar-09	<ul style="list-style-type: none"> <li>Research is complete. Final product will be submitted in Sept 2009</li> </ul>	

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.04	Legal - permitting processes	Provide objective legal research and analysis of state and federal permitting process for marine renewable energy projects and marine spatial planning. Contact members of the legal community, highlighting legal and policy challenges and solutions for implementing renewable energy in Rhode island. Distribute legal findings to constituents.	Objective legal research and analysis for guiding development and protecting ocean resources.	2/1/2009 (revised expected completion date 01/10)	• Three legal research memos prepared at the request of & submitted to CRMC Brian Goldman on January 30, April 2 and May 29, 2009; Future work assignments will be developed at the direction of CRMC staff	 25% Complete
<b>Goal 2.</b> Identify best practices and strategies for overcoming obstacles in planning, policy, and implementation of marine renewable energy that can be transferred to the Ocean SAMP initiative based on a comparative assessment of lessons learned from other initiatives in the United States and worldwide. Evaluate what works and what does not work in the Ocean SAMP initiative so that this model effort can be used as a case study for future efforts.						
G2	Comparative policy assessment	Compare and contrast experience and lessons learned from other initiatives in the United States and worldwide with the aim of capturing good practices transferable to Rhode Island.	Comparative assessment report .	5/1/2009 (revised expected completion date 10/09)	• Document 95% completed. Will be peer reviewed over the summer.	 75% Complete
G2	Best practices assessment	Articulate the principles and strategies of the Ocean SAMP and summarize key outcomes so that the project leaves behind for others a case study to learn from.	Cumulative assessment report.	Apr-10	• Principles draft and being reviewed internally	 25% Complete
<b>Goal 3.</b> Engage a well informed and well represented constituency that understands the Ocean SAMP issues and is involved in the creation of the Ocean SAMP.						
<b>Objective 1:</b> Develop a formal process to ensure that all stakeholders and citizens have an opportunity to engage in the process.						
G3.01	Establish and facilitate the Ocean SAMP stakeholder working group	Convene a committee that represents key community and civic organizations in the state to: 1) Ensure a wide range of stakeholders reflecting Rhode Island's diverse ethnic and economic backgrounds participate in SAMP dialogue.	Periodic meetings for present information and hear responses.	ongoing	• Meetings held on 4/10 (acoustics/EMF), 6/30 (marine mammals and sea turtles) Approx. 50 - 80 participants at each event.	 50% Complete

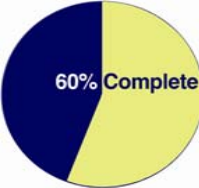

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G3.01	Engage CRMC into the process	Ensure that CRMC members are informed of progress and opportunities for input.	Meetings	Ongoing	<ul style="list-style-type: none"> <li>Ocean SAMP subcommittee held periodic meetings with Ocean SAMP team.</li> </ul>	
G3.01	Organize and facilitate a Science Task Force Advisory Committee	Provide expertise and input specific to the science and research-based aspects of the Ocean SAMP effort.		Ongoing	<ul style="list-style-type: none"> <li>Task force reviewed Journal Article concerning the Ocean SAMP TDI, met to review Ocean SAMP fisheries activities, and is reviewing the Marine mammal and sea turtle report.</li> </ul>	
G3.01	Organize and facilitate a Legal Task Force Advisory Committee	Provide SAMP team with legal advice on possible SAMP policies and regulations and an understanding of the existing federal, regional and state policies related to SAMP issues. Oversee all legal research for the SAMP.		Ongoing		
G3.01	Special meetings with key stakeholders	Meet with key RI leaders to explain the SAMP process and input	Meetings	Ongoing	<ul style="list-style-type: none"> <li>See Attachment A list of meetings. Public lecture series "Our Ocean in Motion" being organized for summer months.</li> </ul>	
G3.01	MOU signing	State & Federal leaders to convene and formally kick off the SAMP effort.	Public Event	Sep-08	<ul style="list-style-type: none"> <li>Completed.</li> </ul>	






**Objective 2:** Organize and/or support existing events that offer project team and stakeholders an opportunity to better understand issues including ocean zoning, impacts of renewable energy activities on existing human activities and natural features and other related topics.



Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G3.02	Baird Symposium	"Sound Connections: The Science of Rhode Island and Block Island Sounds" The meeting will focus on Block Island Sound and Rhode Island Sound and their interfaces with waters to their north, south, east, and west. The symposium will explore the physical oceanography and living marine environments of the Sounds region, ecological trends, ocean-atmosphere interactions, and the geological landscape of the area. Both observational and model results will be included.	Proceedings	10/1/2008 (expected revised completion 08/09)	<ul style="list-style-type: none"> <li>Executive Summary in draft form and will be ready for internal review in May. Full proceedings are in process expected completion date is June.</li> </ul>	 <p>95% Complete</p>
G3.02	Roger Williams University Marine Law Symposium	This two-day Symposium will explore means to achieve a viable marine renewable energy industry for the United States with a focus on offshore wind, hydrokinetics (wave, current and tidal), and ocean thermal energy conversion. Its panels will discuss a range of solutions for the nascent U.S. marine renewable energy sector's current legal, economic and policy challenges.	Roger Williams Law Review Publication	10/1/2008 (expected revised completion 08/09)	<ul style="list-style-type: none"> <li>Production of a Symposium specific issue of the Roger Williams University Law Review (at publishers, due out August 2009 ) featuring articles by Symposium speakers</li> </ul>	 <p>95% Complete</p>
G3.02	RINHS monthly events			Ongoing	<ul style="list-style-type: none"> <li>Completed</li> </ul>	 <p>100% Complete</p>
G3.02	RINHS conference	The Rhode Island Natural History Survey's conferences provide the state's environmental and life scientists with a forum to discuss key issues related to the state's biota and habitats. In addition to scientists, the conferences are attended by policy-makers, land managers, representatives from nonprofit organizations, amateur naturalists, educators, students, and interested citizens.		Mar-09	<ul style="list-style-type: none"> <li>See Attachment A. for agenda and participant list.</li> </ul>	 <p>100% Complete</p>
G3.02	Newspaper series	That introduces key SAMP issues and describes SAMP progress		Ongoing	<ul style="list-style-type: none"> <li>Ocean SAMP articles.</li> </ul>	 <p>50% Complete</p>

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G3.02	Develop articles on SAMP for 41 north			Apr-09	Began to discuss issues	
<b>Objective 3:</b> Develop communication tools that will provide up-to date information for all interested citizens and interest groups.						
G3.03	Develop project web site, phone, e-mail			Jul-08	• Over 9,056 web visitors this period.	
G3.03	Develop project fact sheet			Aug-08	• Completed and being distributed	
G3.03	Establish external listserve/mailling list			Aug-08	• More than 379 ListServ subscribers	
G3.03	Create a ferry display			Apr-09	• Text being approved, images being approved.	



Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
<p><b>Goal 4:</b> Develop a SAMP for Rhode Island's Coastal waters that serves as a tool to encourage regulatory and management coordination and consistency among Rhode Island state agencies (CRMC, OER, DEM), federal agencies (U.S. Department of Energy, ACOE, MMS, and the U.S. Federal Energy Regulatory Commission), neighboring states (MA, CT) and other public entities, developers, and environmentalists within this project area.</p>						
<p><b>Objective 1:</b> Develop siting criteria that will serve as a mechanism to promote the identification of appropriate sites for the installation of permanent structures.</p>						
G4.01	Develop characteristics or performance measures for the Ocean SAMP	Based on the revised wind farm site screening analysis (Spaulding) and the information collected and created by the Ocean SAMP effort, develop the criteria to guide CRMC and others to identify appropriate locations for siting wind farm activities. This will build on work developed for the ATM study. Physical and biological characteristics include those necessary for the installation of structures, including structures that support alternative energy activities. Characteristics would also include locations where these structures would not be appropriate (e.g. inside a navigational channel).		Jul-09	<ul style="list-style-type: none"> <li>In process based on information listed above.</li> </ul>	 <p>60% Complete</p>
<p><b>Objective 2:</b> Develop new policies and procedures for renewable energy activities</p>						
G4.02	Develop new policies and procedures	Based on the results and learning from all other aspects of this project, develop policies and procedures for the construction, operation and decommissioning of renewable infrastructure.		Jul-10		 <p>0% Complete</p>

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
<b>Objective 3: Develop the SAMP document as described in the Ocean SAMP outline</b>						
G4.03	Develop the executive summary	Summarize the SAMP document	Section 100	Jun-10		
G4.03	Develop the introduction	Describe the intent and purpose, project boundary, and how the SAMP will be used	Section 200		<ul style="list-style-type: none"> <li>Draft being reviewed by Ocean SAMP CRMC subcommittee.</li> </ul>	
G4.03	Summarize the existing conditions section	Present this information, highlighting fisheries (likely its own chapter). This section will present an overview of the existing natural features and human activities. Aspects that make this a high energy system and its unique qualities will be highlighted	Section 300	Nov-10	<ul style="list-style-type: none"> <li>Text is being written for 75% of chapters.</li> </ul>	
G4.03	Summarize existing policies	Discuss CRMC's policies/procedures, etc.	Section 400	Nov-10		
G4.03	Summarize renewable energy activities	Describe renewable energy activity, including the physical process constructing, operation, and decommissioning renewable energy infrastructure, existing/proposed technologies, siting requirements and potential impacts, as well as lessons learned elsewhere.	Section 500	Nov-10	<ul style="list-style-type: none"> <li>Text is being written for this chapter.</li> </ul>	

Goal/Obj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G4.03	Present sites and new policies	This includes state, federal, interstate policies and procedures for the construction, operation, and decommissioning of renewable infrastructure	Section 600	Jun-10		
G4.03	Submit draft SAMP to CRMC formal process		Section 500	Jul-10		

## Acronyms

CRC	Coastal Resources Center
CRMC	Coastal Resources Management Council
CZM	Coastal Zone Management
EPA	Environmental Protection Agency
GIS	Geographic Information Systems
GSO	Graduate School of Oceanography
NOAA	National Oceanographic and Atmospheric Administration
RIDEM	Rhode Island Department of Environmental Protection
RIEDC	Rhode Island Economic Development Corporation
RWU	Roger Williams University
SAMP	Special Area Management Plan
URI	University of Rhode Island
WHOI	Woods Hole Oceanographic Institution

<b>Ocean SAMP Meetings - Attachment A</b>		
<b>Period 4 (April 1, 2009 to June 30, 2009)</b>		
<b>Date</b>	<b>Agency</b>	<b>Purpose</b>
April 3, 2009	Commercial Fisheries Center-affiliated fishermen (see list); Grover Fugate, Coastal Resource Management Council; Jen McCann, Sue Kennedy, and Tiffany Smythe, URI Coastal Resources Center/RI Sea Grant; Dave Beutel, RI Sea Grant; Ken Payne, URI College of Environmental and Life Sciences	To discuss Ocean SAMP fisheries-related issues and concerns with fishermen who had not participated in earlier fisheries meetings.
April 7, 2009	Ocean SAMP Stakeholder Group Meeting - see attached participant list	Presentation by Jim Miller on <i>RI Wind Farm Siting Study- Acoustic Noise and Electromagnetic Effects</i>
April 9, 2009	Jamestown Education Partnership	First meeting conducted at the request of Rep. Kennedy's office to use Ocean SAMP as an educational tool. Three meetings total after initial sitdown.
April 14, 2009	AFL-CIO Meeting	Briefing and exchange of issue and ideas with George Nee, secretary and incoming president of RI AFL-CIO along with Fugate and McCann, arranged by Young. How Ocean SAMP can benefit RI labor.
April 16, 2009	Environment Roundtable at Save the Bay	Exclusive, invitation-only group meeting with Sen. Sheldon Whitehouse where Ocean SAMP was promoted by Young (the invitee) to build Congressional and broad RI support.
April 16, 2009	National Grid Meeting	Briefing and exchange of issue and ideas with Mike Ryan, president of RI National Grid office in Providence along with McCann and Fugate, arranged by Young. How energy legislation and regs affects Ocean SAMP.

Date	Agency	Purpose
April 21, 2009	Fisheries stakeholders (see list); Frank Thomsen, Centre for Environment Fisheries and Aquaculture Science; Grover Fugate and Dave Beutel, Coastal Resource Management Council; Jen McCann, Tiffany Smythe, and Chip Young, URI Coastal Resources Center/RI Sea Grant; Monica Allard Cox, Kathy Castro, and Laura Skrobe, RI Sea Grant	To facilitate discussion between fishermen and Dr. Frank Thomsen, a marine biologist from the Center for Environment, Fisheries, and Aquaculture Science (UK) who has expertise in the impacts of offshore wind farms on fisheries, and Dr. Tony Fox who is professor of wetland ecology at the National Environmental Research Institute in Denmark, and has been a lead scientist for the Danish offshore wind energy assessment of impacts on migratory birds.
April 21, 2009	Ocean SAMP All-Day Orientation Meeting	Part of four-day overall Ocean SAMP conference and meeting schedule.
April 21, 2009	Fisheries Subcommittee Meeting	Input-output meeting to learn of fisheries growing interests and concerns.
April 22, 2009 - April 24, 2009	Ocean SAMP expert & researcher meetings - see participant list	1) Provide participants with a comprehensive understanding of the Ocean SAMP program. 2) Identify recommend solutions to key Ocean SAMP questions/concerns.
April 22, 2009	Ocean SAMP/RINHS All-Day Conference	Part of four-day overall Ocean SAMP conference and meeting schedule.
April 22, 2009	Minerals Management Service	Discuss cultural and historic Minerals Management Service regulations and approaches to the SAMP

Date	Agency	Purpose
April 23, 2009	Ocean SAMP All-Day Recap Meeting	Part of four-day overall Ocean SAMP conference and meeting schedule.
April 23, 2009	Annual RI Natural History Survey Conference attendees . <i>Rhode Island's Off-Shore Marine Ecosystem and the Potential Impacts of Alternative Energy Development</i>	This year's RI Natural History Survey conference focused on the interactions between offshore renewable energy and marine fish and bird populations, and featured fisheries experts including Dr. Frank Thomsen from the Center for Environment, Fisheries and Aquaculture Science in the UK and Dr. Les Kaufman from Boston University.
April 24, 2009	Fisheries stakeholders (see list); Grover Fugate, Dan Goulet and Dave Beutel, Coastal Resource Management Council; Tiffany Smythe and Chip Young, URI Coastal Resources Center/RI Sea Grant; Erin Trager and Will Waske, Minerals Management Service; Sue Tuxbury, National Marine Fisheries Service; Bob DeSista, United States Army Corps of Engineers; Paul Rich and Bill Wall, Deepwater Wind	To facilitate discussion between fishermen and representatives from Deepwater Wind, the prospective offshore wind farm developer
April 24, 2009	Ocean SAMP Deepwater/Fisheries Meeting	Part of four-day overall Ocean SAMP conference and meeting schedule.
April 24, 2009	Department of Environmental Management, fishermen, Minerals Management Service, Army Corps Of Engineers	Discuss Ocean SAMP regulations, sharing of information, and process

Date	Agency	Purpose
April 30, 2009	RI Historic Preservation & Heritage Commission	Meeting with RI Historic Preservation and Heritage Commission in Providence to introduce the SHPO office to the Ocean SAMP project, review the historic/cultural/tribal/archaeology component of the SAMP, and discuss data acquisition and review protocols with the SHPO.
May 1, 2009	NBEP "Current of Change" Trends Meeting at RWU	All-day, invitation only meeting to discuss Narragansett Bay Projects "Trends" report
May 5, 2009	Army Corps Of Engineers, National Oceanic and Atmospheric Administration, Environmental Protection Agency, National Marine Fisheries Service, Department of Environmental Management, Deepwater, Ocean SAMP staff and researchers	Review federal requirements
May 11-13, 2009	Northeast Area Monitoring and Assessment Program , Ocean SAMP staff and researchers	North East Area Monitoring and Assessment Program Trawl Survey, Ocean SAMP staff and researchers joined the Northeast Area Monitoring and Assessment Program (NEAMAP) team of scientists aboard the F/V Darana R for two scientific trawl survey trips. NEAMAP trawl survey data will be incorporated into the Ocean SAMP fisheries chapter, and Ocean SAMP researchers are working with the North East Area Monitoring and Assessment Program team to collect and analyze additional data as part of a fisheries habitat study



Date	Agency	Purpose
May 11, 2009	George Cochran, Mike Keyworth, & Sheila McCurdy: US Sailing/Cruising Club of America; RIMTA; Robin Wallace, RI State Yachting Committee; Grover Fugate, Coastal Resource Management Council; Jen McCann and Tiffany Smythe, URI Coastal Resources Center/RI Sea Grant	To plan the development of the Ocean SAMP recreational uses chapter and recreational uses stakeholder process
May 12, 2009	Ocean SAMP Science Advisory Task Force. See Ocean SAMP Web Site for list of Task Force Members.	Overview of Ocean SAMP fisheries work and North East Area Monitoring and Assessment Program presentation.
May 13, 2009	Army Corps Of Engineers, Department of Environmental Management, Press, VIMs	Better understand the North East Area Monitoring and Assessment Program program.
May 14, 2009	Whitehouse D.C. Staff Meeting with Invited RI Environmental Leaders	Discussions of RI priorities in environmental legislation in D.C. Young the invitee.
May 14, 2009	Coastal Resource Management Council subcommittee	Approval of previous meeting minutes, review of the Quarter 3 Progress Report, update on Ocean SAMP budget and report from the Management Team
May 19, 2009	RI Historic Preservation & Heritage Commission	Meeting with RI Historic Preservation and Heritage Committee at URI Bay Campus to meet with researchers and discuss the scope for the marine archaeology effort.
May 21, 2009	Ocean SAMP Management team meeting	Review GIS layer and GIS training, review funding status, and preparation for all hands June 2nd Ocean SAMP team meeting.

Date	Agency	Purpose
June 1, 2009	Ad Hoc Meeting with Congressional Delegation Staff Members	Personal overture by Young to update Congressional delegation staff on Ocean SAMP progress.
June 3, 2009	Ocean SAMP Management team meeting	Review project boundary map, research status updates and collaborations discussion, review of upcoming meetings.
June 4, 2009	Army Corps Of Engineers, National Oceanic and Atmospheric Administration	Informal Section 7 discussion
June 5, 2009	Captain Charlie Donilon, M/V Snappa, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	Mapped shark diving, whale and bird watching trips in SAMP area, background info on those recreational activities, as well as issues and concerns related to SAMP
June 8, 2009	Mass Coastal Zone program	Updates and discussion to share data & lessons learned.
June 8, 2009	Minerals Management Service	Discuss Minerals Management Service leasing approaches
June 9, 2009	United States Coast Guard Port Safety and Security Meeting, Dan Goulet :Coastal Resource Management Council, Sam DeBow: Graduate School of Oceanography, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	Met with Ed LeBlanc (United States Coast Guard), Matt Wingate (National Oceanic and Atmospheric Administration), Kevin Blount (United States Coast Guard), Steve Hall & Mike Scanlon (RI Department of Environmental Management)
June 11, 2009	Al Conti, Snug Harbor Marina & RIMTA, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	Discussed recreational uses (primarily fishing)
June 12, 2009	Meeting on GCC and related Ocean SAMP issues with CRC project leaders	Ancillary meeting with Young to discuss integration of various programs that mesh between Ocean SAMP and GCC.

Date	Agency	Purpose
June 12, 2009	RI Historic Preservation & Heritage Commission	Meeting with RI Historic Preservation and Heritage Committee in Providence to discuss available data and review the process for compliance with Section 106 of the National Historic Preservation Act.
June 15-18, 2009	Ocean Energy Conference	Ocean SAMP presentation
June 15, 2009	EDC, Coastal Resource Management Council, University of Rhode Island	Ocean SAMP overview
June 15, 2009	Meeting by Invitation by Sen. Whitehouse to Greet New EPA Head, Lisa Jackson	Invitation-only meeting by Sen. Sheldon Whitehouse with new EPA director Lisa Jackson. Promoted Ocean SAMP.
June 15, 2009	Captain Frank Blount, Frances Fleet, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	To map whale watching, bird watching and other recreational boating within the SAMP area
June 16, 2009	Minerals Management Service	Discuss new Minerals Management Service regulations, and ocean energy with Maine
June 16, 2009	Maine Ocean Energy contacts	Discuss Maine
June 16, 2009	Brad Dellenbaugh, New York Yacht Club, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	To map regattas within the SAMP area and to discuss issues/concerns within the sail community
June 17, 2009	Steve Hall and Mike Scanlon : RI Department of Environmental Management, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	Discuss both recreational boating in RI, and marine transportation within the SAMP Area, also potential data available from Department of Environmental Management to be used in map creation
June 22, 2009	EDC, Coastal Resource Management Council, University of Rhode Island	Ocean SAMP presentation

Date	Agency	Purpose
June 23, 2009	Narragansett Indian Tribe, David Kaiser, National Oceanic and Atmospheric Administration; Minerals Management Service; Army Corps Of Engineers	Tribal Consultation Meeting with Narragansett Indian Tribe Historic Preservation Officer @ Coastal Resource Management Council, G. Fugate & J. McCann to discuss tribal concerns and issues related to the SAMP process, as well as a process for involving tribal partners in the development of the SAMP.
June 23, 2009	Ed LeBlanc United States Coast Guard, Dan Goulet Coastal Resource Management Council, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	Review of Marine Transportation Chapter, data sources and contacts
June 23, 2009	Roger Williams University Legal class	Overview of Ocean SAMP (Presentation)
June 23, 2009	Fisheries stakeholders; Grover Fugate and Dave Beutel, Coastal Resource Management Council; Jen McCann and Tiffany Smythe, URI Coastal Resources Center/RI Sea Grant; Will Waskes, Minerals Management Service; Mike Elliott, United States Army Corps of Engineers	To facilitate discussion between fishermen and representatives from Minerals Management Service with regard to prospective submerged lands leases
June 24, 2009	Coastal States Organization	Meeting to discuss Ocean SAMP progress
June 24, 2009	Myrna George, South County Tourism Council, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	Discuss possible information or data her office may have on recreation and tourism use associated with SAMP area and identify possible issues/concern related to SAMP
June 24, 2009	RIDEM, RI CRMC, and URI: Grover Fugate, Coastal Resource Management Council; Jen McCann and Tiffany Smythe, URI Coastal Resources Center/RI Sea Grant; Bob Ballou and Mark Gibson, RI Department of Environmental Management	To facilitate communication and coordination between Coastal Resource Management Council and Department of Environmental Management with regard to fisheries and other aspects of the Ocean SAMP

Date	Agency	Purpose
June 25, 2009	Rick Bellavance, Charter Boat Captain, Tiffany Smythe & Michelle Armsby, URI Coastal Resources Center/RI Sea Grant	To map dive sites in SAMP Area, gain background info on RI diving and discuss issues/concerns
June 25, 2009	Army Corps Of Engineers, Minerals Management Service, FWS, URI avian expert Peter Paton	To review the avian methodologies and current findings. Receive regulatory guidance
June 30, 2009	Ocean SAMP Stakeholder Group Meeting - see attached participant list	Convene a committee that represents key community and civic organizations in the state. <i>Presentation by Robert Kenney on Marine Mammals and Sea Turtles of Narragansett Bay, Block Island Sound, Rhode Island Sound, and Nearby Waters: An Analysis of Existing Data for the Rhode Island Ocean SAMP</i>

**Ocean SAMP Meeting with Commercial Fisheries Center-affiliated Fishermen  
April 3, 2009, 4:00 p.m.**

**Topics to cover:**

1. Fisheries technical report and chapter development
2. Fisheries activity maps
3. Additional opportunities for information sharing

**Ocean SAMP Meeting with Commercial Fisheries Center-affiliated Fishermen  
Friday April 3<sup>rd</sup>, 4-6:30 p.m.**

**Meeting Summary**

**In attendance:** Commercial Fisheries Center: Ted Platz; Lanny Dellinger; Michael Marchetti; Bill McElroy; Greg Mataronas; John Rainone; CRMC: Grover Fugate; URI: Jennifer McCann, Tiffany Smythe, Sue Kennedy, Ken Payne

**Meeting summary:**

On behalf of fishermen, Dellinger asked for a confidentiality agreement with regard to any information/data that is provided by the fishermen to the SAMP team. Fugate indicated that he would need to consult with the CRMC attorney and the federal agency representatives on this matter. (See “next steps” below.)

Discussion of the SAMP and fisheries: there will be a SAMP fisheries chapter that fishermen and other stakeholders will have the opportunity to review and comment on; because the SAMP will be approved as part of the state’s coastal management program, the federal consistency provision of the Coastal Zone Management Act could provide protection for fishermen fishing in federal waters.

Fishermen raised several questions about the proposed wind farm itself – i.e. footprint of each turbine; distance between turbines; how/where the transmission cable will be laid; how to safely maneuver in the area during construction; etc – that are best addressed by the developer. Fishermen also voiced concerns re: potentially higher marine insurance premiums and safe maneuvering around wind turbines and potential loss of gear, which could result in safety issues, loss of valuable equipment, and loss of fishing time. Suggestions included: designating a pathway through the wind farm area to maximize safe operations/minimize the loss of gear; having a website or telephone hotline to update fishermen of construction operations. Payne indicated that insurance issues could potentially be dealt with by statute. Dellinger asked whether there should be more working meetings to get into the details of some of these issues.

Fishermen also expressed concerns regarding the impacts of noise associated with wind farm construction and operations – both underwater and above the surface – on fish, both over the short term and the longer term. Fishermen also expressed concerns over the potential closure of the wind farm area to fishing and Dellinger indicated that they needed to proceed under the assumption that the area would be closed.

It was agreed that Fugate would set up a meeting with developer and CFC-affiliated fishermen and indicated that the federal agency representatives (MMS and Army Corps) may need to be present at this meeting. Fishermen requested an evening meeting and Fugate indicated he’d try for something as late in the day as possible. Dellinger agreed to provide possible dates for the meeting. Fishermen stated that their ultimate goal is to have a fisheries liaison to the developer, as has been done in Europe. (See “next steps” below.)

Fishermen requested a template that could be moved around on a map/chart to show the exact dimensions of a wind farm/exact turbine spacing – both E/W and N/S. It was agreed that SAMP staff would try to develop such a template for fishermen. (See “next steps” below.)

Payne offered a summary of several of the issues that had been raised thus far as follows, and is certain that the SAMP process is the right way to address these matters so that fishermen are treated fairly:

- 1) Fishermen are seeking some sort of a confidentiality agreement with regard to their data.
- 2) Fishermen are concerned about how wind farm construction may impact fisheries, biologically and otherwise, and this is a subject for further research.
- 3) Many questions have to do with “use protocols” regarding a wind farm area – i.e. marine insurance, safe operating procedures, etc - this comes back to strategies for mitigating the impacts of a wind farm on fisheries so as to minimize risks and provide protections for fishermen.
- 4) There is a need for an ongoing liaison between the fishermen and the SAMP process/the developer – this must be a high-quality process/arrangement.

Discussion of how many of these issues fall under the larger umbrella of mitigation – and that impacts to fishermen both during construction or operation must be mitigated to the extent possible.

There was some discussion about mapping different areas: fishermen indicated that some areas, such as Deep Hole, are well known fish migration areas, and that there may also be a need to map areas that are well known as “deserts” with regard to fishing.

Fishermen requested poster-sized maps showing the entire SAMP area on one nautical chart – approximately 5 or 6. Fishermen suggested contacting Matt Wingate at NOAA for help with this task. Smythe agreed to follow up with GIS staff to see about producing such a map and to see how many the SAMP team would be able to produce for fishermen.

#### **Next Steps:**

1. Dellinger will recommend possible meeting dates and then Fugate will follow up with developer and federal agencies to set up the meeting.
2. Fugate will investigate question re: request for confidentiality.
3. Smythe will work with GIS staff to get the requested wind farm template as well as poster-sized printouts of one nautical chart with the entire SAMP boundary printed on it.
4. Fishermen agreed that they'd like to meet with Dr. Frank Thomsen in 4/21 and so Smythe and McCann are working on setting up this event.



SIGN-IN SHEET

O. SAMP/FISHERMEN MITG

4/3/09

Name	Email	Affiliation
Ted Platz	theoplatz@gmail.com	R.I.M.A.
Larry Dellinger	LHD0626@aol.com	RCLA
Michael C. Woodgett	FVCAPTAINROBERT@aol.com	E.N.E. Scallop Ass
Bill McElroy	FV ELLEN JUNE @ COX.NET	RCLA
Greg Mataronas	saklob@aol.com	Sakonnet Point Fishermen's Assoc.
JOHN RAINON	JOHN@11TOOTCHARTER.COM	R.I.P.C.B.A.

# OCEAN SAMP Stakeholder Group Meeting

Hazard Rooms A and B  
April 7, 2009, 5:30– 8:00 pm

## Agenda

**Purpose of the meeting:**

- 1) Present information on acoustics and electromagnetics related to the Ocean SAMP.

**Meeting Chair and Facilitator:** Ken Payne/Jennifer McCann

- 5:30      **Light refreshments will be served**
- 6:00      **Welcome and Recap of the Ocean SAMP process** – Ken Payne/Jennifer McCann, URI
- 6:10      **New Ocean SAMP Developments** – Grover Fugate, CRMC
- 6:20      **Acoustics and Electromagnetics.** – Dr. James Miller, URI
- 7:15      **Next meetings – May 5, 2009**
- 8:00      **Adjourn**

TENTATIVE PROGRAM (a.o. 4/13/2009)

13<sup>th</sup> Annual Rhode Island Natural History Survey Ecology of Rhode Island Conference

**Rhode Island's Off-Shore Marine Environment and the Potential Impacts of  
Alternative Energy Development**

April 23, 2009, Quonset O Club, North Kingstown, Rhode Island

- 7:30 Registration Open; Continental Breakfast
- 8:30 Introduction and Presentation of Distinguished Naturalist Awards  
William Whitman Bailey (posthumous)  
Accepted by Johanna Schmitt, Brown University, Presented by Fran Underwood  
Lisa Lofland Gould  
Presented by Marion Gold, Cooperative Extension Education Ctr., URI
- 9:00 Grover Fugate, Executive Director, Coastal Resources Management Council  
Welcome
- 9:15 Tony Fox, National Environment Research Institute, Denmark  
The Danish Experience with Birds and Off-Shore Wind
- 10:05 Break/Posters
- 10:25 Kristopher Winiarski, Department of Natural Resources Science, URI  
Assessing Rhode Island Sound's Near-shore and Off-shore Avian Resource for the Rhode  
Island Ocean Special Area Management Plan
- 10:45 Chris Rein, ESS Group, Inc.  
Offshore Wind and Birds—Avian Data Collection for The Cape Wind Energy Project
- 11:05 Jack Clarke, Massachusetts Audubon Society  
Birds and Cape Wind
- 11:50 Lunch
- 12:25 Address by Governor Donald L. Carcieri
- 12:45 Frank Thomsen, Centre for Environment, Fisheries & Aquaculture, U.K.  
Fish, Mammals, and Underwater Sound
- 1:30 Stephen Hale, U.S. Environmental Protection Agency  
Marine Benthic Communities Of Block Island And Rhode Island Sounds
- 1:50 Caroly Shumway, The Nature Conservancy  
Mapping Marine Habitats for Rhode Island and the Northwest Atlantic: A First Step in  
Marine Spatial Planning
- 2:10 Les Kaufman, Boston University  
Fish Behavior and Habitat
- 2:50 Break/Posters
- 3:05 Meredith Blaydes Lilley, Center for Carbon-free Power Integration, University of Delaware  
The Effect of Offshore Wind Power on Coastal Tourism
- 3:25 Megan E. Higgins, Marine Affairs Institute, Roger Williams University School of Law  
The Legal and Policy Issues Regarding Permitting Offshore Renewable Energy Projects
- 3:45 Rodney Cluck, U.S. Minerals Management Service
- 4:25 Close; Quonset O Club Lounge remains open

first name	last name	affiliation
<b>RINHS Attendee List</b>		
Monica	Allard Cox	RI Sea Grant / OceanSAMP
Robert	Almy	SAIC
Ken	Anderson	CRMC
Michelle	Armsby	URI - Marine Affairs
Steve	Aubrey	Rogue Wave Field Services
Peter	August	URI - Environmental Data Center
Chaplin	Barnes	The Watch Hill Conservancy
Patrick	Barosh	Patrick J. Barosh & Associates
Ulf	Bauchinger	URI - Natural Resources Science
Rick	Bellavance	RI Party & Charter Boat Asso.
Roy	Bergstrom	URI - Marine Affairs
Dave	Beutel	RI Sea Grant
Meredith	Blaydes Lilley	Univeristy of Delaware
Greg	Bonynge	URI - Environmental Data Center
Jon	Boothroyd	URI - Geosciences / RI State Geologist
Jim	Boyd	CRMC
Mike	Bradley	URI - Environmental Data Center
Jeff	Brandt	TRC Solutions
Charlie	Brown	RIDEM Fish & Wildlife
David	Brown	People's Power & Light
Caitlin	Chaffee	CRMC
Greg	Chasko	CT DEP Wildlife Division
Jack	Clarke	Mass. Audubon
Dave	Clayton	RINHS Board of Directors
Rodney	Cluck	Minerals Management Service
Ames	Colt	RIDEM
Chris	Connolly	Roger Williams Univ. School of Law
Barry	Costa-Pierce	RI Sea Grant
Ken	Court	Jackie Sea Charters, Inc.
Fara	Courtney	Good Harbor Consulting
Teresa	Crean	URI CRC / RI Sea Grant
Kevin	Cute	CRMC
Joseph	da Silva	RI Department of Education
Christopher	Damon	URI - Environmental Data Center
Andres	de Lasa	Deepwater Wind
Chris	Deacutis	Narragansett Bay Esturay Program
Sam	DeBow	URI - GSO
Anne	DiMonti	Audubon Society of RI
Norm	Dudziak	ESS Group, Inc.
Roland	Duhaime	URI - Environmental Data Center
Sara	Edquist	New England Aquarium
Wendy	Edwards	US Fish & Wildlife
Kevin	Essington	The Nature Conservancy
Marie	Evans Esten	Loon Environmental LLC
Susan	Farady	RWU - Marine Law Institute
Yvonne	Federowicz	American Chestnut Foundation, Mass Chapter
Tim	Feehan	Tetra Tech EC, Inc.
Sean	Feeley	CRMC

Raphael	Fennimore	New England Aquarium
Maura	Flynn	New England Aquarium
Kathie	Florsheim	Coastal Institute - Senior Fellow
Tony	Fox	University of Aarhus, Denmark
Janet	Freedman	CRMC
Deborah	French McCay	Applied Science Associates, Inc.
Rupert	Friday	RI Land Trust Council
Reinhard	Frohlich	Emeritus - URI Geosciences
Patricia	Frolich	
Kevin	Frost	Clean Ocean Access
Grover	Fugate	CRMC
Gina	Fuller	Town of Westerly
Kim	Gaffett	Ocean View Foundation
Howie	Ginsberg	USGS
Andrew	Glucksman	Mabbett & Associates
Marion	Gold	URI Outreach Center & Energy Center
Brian	Goldman	CRMC Legal Counsel
Don	Gomez	Ocean SAMP Subcommittee
Paul	Gonsalves	Statewide Planning
Cliff	Goudey	Offshore Aquaculture Engineering Ctr. MIT
Lisa	Gould	Distinguished Naturalist
Danni	Goulet	RI CRMC
Eileen	Graham	Applied Science Associates, Inc.
David	Gregg	Rhode Island Natural History Survey
Tom	Halavik	US Fish & Wildlife, Coastal Program
Stephen	Hale	US EPA
Christopher	Harrell	InQuest
Brian	Harrington	CRMC
Lynne	Harrington	
Brian	Harris	URI - Natural Resources Science
Leanna	Heffner	URI - GSO
Rudi	Hempe	URI - CELS News
Lola	Herrera	URI - Coastal Resources Center
Megan	Higgins	RWU - Marine Affairs Institute
Emilie	Holland	
Peter	Holmes	US EPA
Richard	Horwitz	Coastal Institute - Senior Fellow
Howard	Quinn	Tech Environmental
Min	Huang	CT DEP Wildlife Division
Brita	Jessen	URI - GSO
Jill	Johnen	
Diane	Johnson	Town of Narragansett
Laurie	Johnson	Land Conservancy of North Kingstown
Les	Kaufman	Boston Univeristy
Sue	Kennedy	URI CRC / RI Sea Grant
Meg	Kerr	Narragansett Bay Esturay Program
Keith	Killingbeck	URI - Biological Sciences
Erin	King	US Fish & Wildlife Service
Grace	Klein-MacPhee	RIDEM
Jonathan	Knight	Superior Trawl
Michael	Kujawa	Deepwater Wind, LLC.

Tom	Kutcher	Rhode Island Natural History Survey
Jess	Kutcher	
Chuck	Labash	URI Environmental Data Center
Monique	LaFrance	URI - GSO
Lesley	Lambert	Narragansett Bay Estuary Program
Michael	Larkin	URI - Natural Resources Science
Hope	Leeson	RINHS - Invasive Species Specialist
Paul	Lemont	Ocean SAMP Subcommittee
July	Lewis	Audubon Society of Rhode Island
Matt	Ludwig	
Helen	Lusi	
Andrew	MacLachlan	US Fish & Wildlife, Coastal Program
John	MacPhee	
Natalie	Major	
Aimee	Mandeville	URI Environmental Data Center
Kate	Manning Butler	URI Coastal Resources Center
Michael	Marchetti	Eastern New England Scallop Assoc.
Sharon	Marino	US Fish & Wildlife, Coastal Program
Eugenia	Marks	Audubon Society of Rhode Island
Marilyn	Massaro	Museum of Natural History
Marisa	Mazzotta	EcoBenefits Research
Jen	McCann	URI CRC / RI Sea Grant
Peter	McCarthy	
Cliff	McGinnes	Block Island Power
Doug	McGrady	
Scott	McWilliams	URI - Natural Resources Science
Tom	Medeiros	CRMC
Daniel	Mendelsohn	Applied Science Associates, Inc.
Terry	Meyer	Blueways
Laura	Miguel	CRMC
Jim	Miller	URI - Ocean Engineering
Bryan	Milstead	EPA
Eivy	Monroy	URI - Environmental Data Center
Tim	Motte	CRMC
Mike	Narcisi	URI - Natural Resources Science
Brianne	Neptin	URI Coastal Fellows Program
Amber	Neville	URI Coastal Resources Center
Ray	Nickerson	Town of South Kingstown
Bryan	Oakley	URI - Geosciences
Darrell	Oakley	ESS Group, Inc.
Jay	Osenkowski	RIDEM Fish & Wildlife
Candace	Oviatt	URI - GSO
Peter	Paton	URI - Natural Resources Science
Suzanne	Paton	US Fish & Wildlife Service
Maggie	Payne	RI USDA NRCS
Lou	Perrotti	Roger Williams Park Zoo
Harvey	Perry	The Westerly Land Trust
Anna	Pfeiffer-Herbert	URI - GSO
Joan	Pilson	
Natasha	Pinckard	URI - GSO / NUWC
Clint	Plummer	Deepwater Wind, LLC.

Garry	Plunkett	East Bay Energy Consortium
David	Podger	
Sherri	Poucher	SAIC
Sheldon	Pratt	URI - GSO
Dave	Prescott	Save The Bay
Chris	Rein	ESS Group, Inc.
David	Reis	CRMC
Paul	Rich	Deepwater Wind, LLC.
Laura	Ricketson-Dwyer	RI CRMC
Mark	Rousseau	Mass. Div. Marine Fisheries
Christopher	Rueb	Barrington High School
Laura	Saucier	CT DEP Wildlife Division
Jack	Schempp	Environmental Council of RI
Courtney	Schmidt	URI - GSO
Melanie	Schroeder	Applied Science Associates, Inc.
Malia	Schwartz	RI Sea Grant
Julie	Sharpe	RINHS Board of Advisors
Peggy	Sharpe	
Caroly	Shumway	The Nature Conservancy
Bill	Silkes	American Mussel Harvesters
Amy	Silva	CRMC
Tracy	Silvia	CRMC
Susan	Silvia	URI - CELS
Christopher	Smith	
Tiffany	Smythe	URI Coastal Resources Center
Gerhard	Sonder	
Charlotte	Sornborger	Barrington Land Conservation Trust
Sean	Sparks	Tetra Tech EC, Inc.
Malcolm	Spaulding	URI - Ocean Engineering
Linda	Steere	Applied Bio-Systems, Inc.
Erich	Stephens	Bluewater Wind
Kira	Stillwell	Rhode Island Natural History Survey
Juan	Suarez	University of Seville
Craig	Swanson	Applied Science Associates, Inc.
Judith	Swift	URI - Coastal Institute
Luke	Szymanski	A.I.S., Inc.
Larry	Taft	Audubon Society of Rhode Island
Neil	Talancy	Ecotones, Inc.
Brian	Tefft	RIDEM Fish & Wildlife
Steven	Textoris	Minerals Management Service
Frank	Thomsen	Ctr. for Environment, Fisheries & Aquaculture
Boyce	Thorne Miller	Northwest Atlantic Marine Alliance
Michael M.	Tikoian	CRMC
Tim	Timmermann	EPA
Chris	Tompsett	Naval Undersea Warfare Center
Trisha	Towanda	URI Biological Sciences
Erin	Trager	Minerals Management Service
Carol Lynn	Trocki	Jamestown Conservation Commission
Sue	Tuxbury	NOAA / NMFS
Kristin	Uiterwyk	Urban Harbors Institute
Fran	Underwood	
Charlie	Vandemoer	US Fish & Wildlife Service

Kristin	VanWagner	NBNERR
Kathy	Vigness Raposa	Marine Acoustics, Inc.
Peter	Voskamp	Block Island Times
Christian	Vye	University Computing Systems - URI
Kathleen	Wainwright	The Nature Conservancy
Russ	Waldron	Applied Ecological Sciences
Wendy	Waller	Save The Bay
Kris	Winiarski	URI - Natural Resources Science
Chip	Young	Coastal Institute - URI
Joan	Youngken	Youngken Associates



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## SIGN IN SHEET

Meeting Title: Ocean SAMP Stakeholder Meeting

Date: 4-07-09

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
JIM ANGELO	WESTERLY	angeloja@cox.net
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Lanny Dellinger	RELA	
PAUL SANRODIA	RI WIND ALLIANCE	
Andres de lasa	DWW	adelasa@duwind.com
Joe Forti	E + E	jforti@ene.com
Joe Barla	RI Alliance for clean Energy	abarla@rockwell.com
Drew Carey	Coastal Vision	
MARK MANCINHO	RI AFL-CIO	riaflcio@aol.com
Kim Gaffett	TWN.INS	
STEVE AUGANO	RWRS	rwgaw@rcu.com
KEN COURT	RI P & CBA	kcourt@cox
Bob Kenney	URI - GSO	
Jeff Hallett	WCRPC	
Gina Fuller	Westerly	
Michael Kujawa	Deepwater Wind	mkujawa@duwind.com
Erch Stephens	Deepwater Wind	
VOLA HERRERA	CRC	

## SIGN IN SHEET

Meeting Title: Ocean SAMP

Date: 4-07-09

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Meme Lobecker ✓	—	meme.Lobecker@gmail.com
Bob Lobecker	TMS	Lobecker@aol.com
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RAY NICKERSON	TOWN OF SOUTH KINGSTOWN	
Pete E. Brodeur	PEBRODEUR@COX.NET	
Paul Rich	DWW	prich@dwind.com
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COLIN LAZARUSKI	—	colin.lazaruski@verizon.net
Bill Silhus	Ocean State Aquaculture Assoc	
Lynne Harrington	Greenwich Bay Watershed Group	
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Steve Stasick		
Rich Hittinger	RISAA	
Ted Platz	B. I. M. A.	
Greg Mataromas	Sakonnet Point Fishermans Association	
MYRNA GEORGE	SCTC	
DJ COX	Biological Sciences URI	
J. SWOOSIA	F/V KAREN ANN RILA	

# SIGN IN SHEET

Meeting Title: Ocean SAMP

Date: 4-07-09

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Marie Esten	Loon Ent LLC	
Paige Bronk	City of Newport	
Chris Kearns		
Bryan Oakley	URI Geosciences	
CHRIS TOMPSON	NUWCADUNAT	
JOHN WILLIAMS	GREENWICH BAY WATERSHED GRP	JHW AT MARINA @ VERIZON .NET
David deReis	Town of Middletown	
SheF Corey	Consulting Geophysicist	sheEcorey@yahoo.com
Ames Colt	RI BRWCT	
Bob Mushen	Town of Little Compton	
Andy F2155	wes tarly	
David Grogg	RI Natural History Society	djgrogg@rihs.org
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Scott Lundin	ESS Group	
TRISHA TOWANDA	URI	
TINA Doler	ARPC	

## SIGN IN SHEET

Meeting Title: Ocean SAMP

Date: 4/7/09

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
John Longo	CRMC	jtlongo@yahoo.com
George Cochran	RIIMTA	
Wendy Walker	Save The Bay	
Ben Apple	BROWN	benapple@brown.edu
David Steele	ASA	
EILEEN GRAHAM	ASA	
MELANIE SCHROEDER	ASA	

**RI Ocean SAMP  
Fisheries Stakeholder Meeting with Dr. Frank Thomsen, CEFAS  
Tuesday, April 21<sup>st</sup>  
5:00 p.m.  
Coastal Institute**

- 5:00 Coffee, cookies, sign-in
- 5:10 Overview: Meeting Purpose, RI Ocean SAMP, and Introduction to Dr. Frank Thomsen (T. Smythe, G. Fugate)
- 5:15 Introductions of Fisheries Stakeholders
- 5:20 Brief Overview of Dr. Thomsen's work (T. Smythe, F. Thomsen)
- 5:30 Open Discussion/Q&A
- 6:45 Adjourn

# SIGN IN SHEET

Meeting Title: Ocean SAMP Fisheries Mtg w/ Dr Frank Monahan  
 Date: Tuesday April 21<sup>st</sup> 2009

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Richt Fuka	PRESIDENT / RIFA	CAPT LOBSTER@yorku.c
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Greg Mataronas	Samuel Pt. Fishermen's Assoc.	Saklab@aol.com
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Lanny Dellinger	RELA	LAD0626@hol.com
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Uniceed L. Alarcott	ENE. Seall Assoc	FVcaptain ROBERT@aol.
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Jeremy Colho	URI/GSO	jcolho@gso.uri.edu
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Scott (Jim) Benz	RIPCBA	ReedSPORTS@hbkay.com
SUE KENNEDY	URI CCRISA	Skennedy@ccr.uri.edu



## SIGN IN SHEET

Meeting Title: Ocean SAMP Fisheries Mtg w/ Dr. Frank Thomsen

Date: Tuesday April 21<sup>st</sup> 2009

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Christopher Brown	RICA	GVDWOOD@cox.net
Dave Beutel	URI	
KEN COURT	RICA	KCOURT@cox.net
Jerry Carvalho	RIFA	
Jen McCann	URIS	
Nick TANIOTIS	SDS, ITC	nick@speedytelij.com
Grauer Fugate	CRMC	

## Ocean SAMP Orientation Meeting

*Wednesday, April 22, 2009, 10:00 am*  
*URI, Bay Campus*  
*Hazards Rooms A & B*

**Purpose:**

- 1) Provide participants with a comprehensive understanding of the Ocean SAMP program.
- 2) Identify key Ocean SAMP questions/concerns for the group to grapple with during the next three days.

### AGENDA

10:00	Welcome – <i>Kate Moran, URI</i>
10:05	The importance of the Ocean SAMP – <i>Michael Tikoian, RICRMC</i>
10:10	Overall purpose of this three day event – <i>Jen McCann, URI</i>
10:15	The Ocean SAMP: Science and Policy – <i>Grover Fugate, RICRMC</i>
11:00	Overview of Ocean SAMP Research – <i>Sam De Bow, URI and Grover Fugate, CRMC</i>
11:20	Integrating Ocean Observing Systems into Ocean Spatial Planning – <i>Malcolm Spaulding, URI</i>
11:50	Discussion
12:15	Lunch
1:30	The Ocean SAMP Stakeholder Process: An Overview and Initial Results – <i>Jennifer McCann, URI</i>
2:00	Discussion
2:45	Summary of the Day – <i>Jen McCann, URI</i>
3:00	Adjourn



# SIGN IN SHEET

Meeting Title: **OSAMP WORKSHOP DAY 1**

Date: **4-22-09 WEDNESDAY**

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Carl Lou Hunt	Bu Helle	
MALCOLM SPAULDING	OCE - URI	
DAN Goulet	RI CRML	
Deborah French McCay	Applied Science Assoc.	dfrenchmccay@asascience.com
EILEEN GRAHAM	Applied Science Associates	egraham@asascience.com
Sue Tuxbury	NOAA / NMFS	susan.tuxbury@noaa.gov
Joni Boothward	GEOSCI / URI STATE GEOLOGIST	
BARRY COSTA-FIERCE	RISK - URI / BSA / CAS	bcf@gsu.uri.edu
M. PETER HOLMES	US EPA Region I Boston	HOLMES.PETER@EPA.GOV
JL SUGRAN	University of Leville	vivero@us.es
L. Herrera	Coastal Resources Center	lolah@crc.uri.edu
TONY FOX	NERI UNIVERSITY of AARHUS DENMARK	tfo@dmu.dk
PETER LARSEN	NPS	
Steve Textoris	MMS	stevetextoris@mms.gov
Erin Trager	MMS	erin.trager@mms.gov
Michelle Armsby	URI Marine Affairs & Business	michelle-armsby@mail.uri.edu
FRANK THOMSEN	CEFAS, UK	frank.thomson@cefas.co.uk

## Ocean SAMP Working Session

*Friday, April 24, 2009, 9:30 am  
URI, Bay Campus  
Hazards Rooms A & B*

**Purpose:** Engage participants in dialogue to apply conference results to begin resolving key Ocean SAMP questions/concerns.

### AGENDA

*Facilitator: Jennifer McCann*

9:30	<b>Welcome</b> – <i>Sam De Bow, URI</i>
9:40	<b>Proposed recommendations for the Ocean SAMP project: A Panel Discussion:</b> <u>Panelists:</u> <ul style="list-style-type: none"> <li>○ <i>Dr. Tony Fox, National Environment Research Institute, Denmark</i></li> <li>○ <i>Dr. Frank Thomsen, Centre for Environment, Fisheries and Aquaculture Sciences, United Kingdom</i></li> <li>○ <i>Jack Clarke, Massachusetts Audubon Society, U.S.A.</i></li> </ul>
11:00	<b>Break</b>
11:15	<b>Discussion</b>
12:30	<b>Lunch</b>
1:30	<b>Discussion</b>
2:45	<b>Next Steps</b>
3:00	<b>Adjourn</b>

## SIGN IN SHEET

Meeting Title: Ocean SAMP Workshop Day 2

Date: 4-24-09

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Tiffany Smythe	URICRC/RISG	
Carlton Hunt	Battelle	
Teresa Crean	URI-CRC/RISea Grant	
DAN Gallet	RI CRMC	
Fara Courtney	Good Harbor Consulting / US offshore wind collaborative	
Jeremy Colbe	URI - GSO	
CHIP YOUNG	URI COASTAL INSTITUTE/O-SAMP	
JIM TOBEY	URI-CRC	
Barry Costa-Pierce	URI - RI Sea Grant	
JL SUÁREZ	UNIVERSITY OF SEVILLE, SPAIN	
LOLA HERRERA	Coastal Resource Center.	
TONY Pao	UNIVERSITY of AARHUS, DENMARK.	
Scott McWilliams	NRS/URI	
CHRISTOPHER DARMON	EDC / URI	
Megan Higgins	RISGLP/RWN SOL	
Sue Turbony	NOAA / NMFS	
Deborah French McKay	Applied Science Assoc.	
Donald T. Gomez	CRMC	
JOH BOOTHBY	URI GUSCI	
John King	URT GSO	

# SIGN IN SHEET

Meeting Title: *Ocean SAMA WORKSHOP DAY 2*

Date: *4-24-09*

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
<i>SAM DeBow</i>	<i>URI - GSO</i>	
<i>MALCOLM SPULDING</i>	<i>URI - OCE</i>	
<i>Susan Farady</i>	<i>RWU School of Law - RESG</i>	
<i>Frank Thomas</i>	<i>CEFA</i>	<i>frank.thomas@cefas.co.uk</i>
<i>Jack Clark</i>	<i>Mass Audubon</i>	<i>jclark@massaudubon.org</i>
<i>GROVER FUGATE</i>	<i>CRMC</i>	
<i>GREGS TOMPSETT</i>	<i>NUWC ADUAPT</i>	
<i>PAUL LEMONT</i>	<i>VICE CHAIR - CRMC</i>	<i>LEMONTESQ@AOL.COM</i>
<i>Jim Miller</i>	<i>URI - Ocean Engineering</i>	<i>millier@URI.edu</i>
<i>Meredith Blaydes Lilly</i>	<i>UD - COPI</i>	<i>mblaydes@adel.edu</i>
<i>Erin Trager</i>	<i>MMS - OARP</i>	<i>erin.trager@mms.gov</i>
<i>Steven Thomas</i>	<i>" "</i>	<i>stn.thomas@nri.gov</i>

**RI Ocean SAMP  
Fisheries Stakeholder Meeting with Deepwater Wind,  
the Minerals Management Service, and the U.S. Army Corps of Engineers  
Friday, April 24<sup>th</sup>, 2009**

**Attendance list:**

Paul Rich, Bill Wall, Andres deLasa (Deepwater Wind); Erin Trager, Steve Textoris (MMS); Bob DeSista (USACE); Grover Fugate, Dan Goulet (CRMC); Dave Beutel (RI Sea Grant); Tiffany Smythe, Chip Young (URI); Chris Kearns (DEM); Sue Tuxbury (NOAA Fisheries); Gary Mataronas (Sakonnet Pt Fishermen's Assn); Bill McElroy, Lanny Dellinger (RI Lobstermen's Assn); Jerry Carvalho, Rich Fuka (RI Fishermen's Alliance); Rick Bellavance, John Rainone (RI Party and Charter Boat Assn); Nick Tanionos (Specialty Diving Services)

**Meeting summary:**

G. Fugate introduced the meeting and stated the meeting purpose, which was to facilitate a direct discussion between fishermen and Deepwater Wind (DWW) regarding proposed offshore wind farm development in the Ocean SAMP area.

P. Rich and B. Wall gave a presentation that provided an overview of DWW's proposed sites, turbine technology and engineering, and construction methods. P. Rich introduced presentation with a disclaimer that no proposed sites are definite until the SAMP is completed and permits have been obtained from the relevant federal and state agencies. B. Wall emphasized how some of the engineering details will not be finalized until geotechnical surveys have been completed and P. Wall emphasized how it's important to use the right equipment given the existing site conditions. Presentation was followed by discussion/Q&A, summarized below.

*Infrastructure:* fishermen asked questions about wind farm cables (it is estimated they will be buried 1-2 meters, they will be AC cables, and someone else other than DWW must own the transmission cable); distance between towers (approx. 700 meters); substations (these will be fixed and it is estimated there will be roughly 1 substation per 100 turbines); the jacket foundations (will have 4 hollow legs with a pin pile through each leg); the pin piles themselves (which may be 48-72in. in diameter and which will need to be pile-driven into the seabed 100 – 140 feet depending on the geology); oil in the transformers (there is not very much); and energy generation capacity (right now, 3.5 MW is the proven technology).

*Construction:* Construction window is theoretically May through Sept/Oct though this may be further reduced by weather and/or by permitting restrictions. It is estimated that for each turbine it will take approx 4-5 days to install the foundation and can take only 24 hours for tower installation – but this is entirely subject to weather conditions – and this would mean that only 50 turbines could be installed in a given season. It was acknowledged that the construction season may conflict with some fishing operations and/or with spawning times for certain species, and that these potential conflicts may need to be addressed through the regulatory process or through other means. One suggestion was for temporary construction cessations to allow for fishing in some important fishing areas during some parts of prime fishing season.

*Studies:* DWW emphasized that many geotechnical studies must be completed and cores must be taken before some of these specific engineering/construction questions can be answered.

*Regulatory:* It was emphasized that the relevant federal agency must approve a final project plan which will include the turbine technology/engineering details as well as performance standards and conditions re: testing, monitoring, etc which must be met by the developer. In state waters there may be just an Environmental Assessment (EA), rather than a full EIS. There would be no separate EIS required for a

cable that ran through federal waters – just a right of way. Also discussion of the new MMS framework for offshore wind farm development which were just released this week and are available on MMS's website.

*Vessel traffic:* It is estimated that for each turbine there will be one construction vessel and smaller vessels taking equipment out to the site - estimated 2 to 3 barge loads of equipment per turbine during construction phase).

*Turbine/foundation fabrication:* DWW has proposed that Quonset Point be the base of operations for fabricating much of the equipment – this will take advantage of/build upon RI's shipbuilding capacity and infrastructure. There may also be a future possibility of manufacturing some equipment in RI but right now many of the necessary components are manufactured overseas. Speculation that there won't be a robust US-based manufacturing industry for offshore wind farm components until a critical mass of offshore wind farms is reached.

*Financing:* No stimulus money is truly being directed toward offshore wind farm development.

*Siting:* Currently, technology will allow for offshore wind farm siting up to 30-35 miles offshore without any real voltage loss. Cable routing itself will be based on surveys and would likely not be a straight line because it would need to be routed around obstructions. Many siting decisions cannot be made until geotechnical surveys are completed. Fishermen asked for actual parameters re: site selection so they could plan as well as have input into the process. It was agreed that this input could be facilitated through meetings like this.

*Access:* Access within/around a wind farm would be based on a recommendation from the USCG to the relevant regulatory agency. DWW reps stated they had no objection to fishing around turbines. Fishermen stated that insurance may be a very significant issue re: navigating around turbines or cables.

*Operational problems:* There were questions about known accidents during offshore wind farm operations and it was stated that there are no real known accidents. Turbines do not have a history of big storm damage though there have been some lightning strikes. Turbines can be shut down remotely and will be shut down in 40-50 kt winds. Discussion about what category of hurricane/maximum wave height a turbine could withstand and that there is a regulatory requirement that the turbine be rated for the 100-year storm.

*Landside connection:* Discussion of two different locations; generally they'll be on the west side of the state.

*Lifespan:* the lifespan of the project has to do with the generator itself. However it is hard to predict what may happen at the time of decommissioning given that technology is changing so rapidly.

**Next steps:**

Meeting summary and attendance list will be distributed by email to meeting attendees. Future meetings will be held between fishing community and DWW (Ocean SAMP team must facilitate and MMS/USACE must participate) – no dates specified at this time.

# SIGN IN SHEET

Meeting Title: OCEANSAMP Fisheries Mtg w/ Deepwater Wind

Date: Friday April 24<sup>th</sup> 2009

Name (please print neatly)	Department/ Organization	E-mail (optional - to add to listserve)
GARY MATARONAS	SAK PT Fisherman	
Bill McElroy	RIFA	
Jerry Cunniff	RIFA	
Rick BELLAVANCE	R.I.P.C.B.A	
Paul Rich	DW Wind	prich@dwwind.com
Bill Wall	DW Wind	bwall@dwwind.com
Chris Kearns	(DEM)	Kearns41@aol.com
RICH FUKA	PRESIDENT / RIFA	CAPT LOBSTER@YAHOO.
Don Goulet		
Sue Tuxbury		
Andres de Lasa	DWW	adelasa@dwwind.com
Paul Rich	DWW	prich@dwwind.com
Bill Wall	DWW	bwall@dwwind.com
Bob Desista	Army Corps of Engineers	robert.j.desista@usace.army.m
Steve Textoris		
Erin Tuxer		
DAVE BENTEL		
Grove Fugate		
Chip Yang		
Larry Dellinger		

Nick Taniotas

**Ocean SAMP  
Science Advisory Task Force Meeting**

*Tuesday, May 12, 2009, 10:00am-1:00pm  
US EPA Atlantic Ecology Division, Narragansett, RI 02882  
Conference Room A&B*

**Participants:**

<b>Co-Chairs</b>	<b>Telephone</b>	<b>Email</b>
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Carlton Hunt	781-952-5374	<a href="mailto:huntc@battelle.org">huntc@battelle.org</a>

<b>Members</b>		
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Roman Zajac	203-932-7114	<a href="mailto:rzajac@newhaven.edu">rzajac@newhaven.edu</a>

## AGENDA

- 10:00-10:05 **Welcome & Overview of Previous Meeting/Summary Notes** (Nixon)
- 10:05-10:15 **Ocean SAMP Update** (Fugate)
- 10:15-10:45 **Ocean SAMP – Marine Fisheries Resources Overview** (Beutel, Smythe, Collie, King)
- 10:45-11:45 **NEAMAP Survey** (Chris Bonzek, VIMS Fisheries)
- 11:45-12:00 **Break & Pick up lunch**
- 12:00-12:45 **Questions / Discussion**
- 12:45-1:00 **Next Steps & Schedule Next Meeting**



## SIGN IN SHEET

Meeting Title: Ocean SAMP- Science Advisory Task Force #3

Date: 12 May 2009

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
Candace Oviatt	GSO	coviatt@gso.uri.edu
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Stephen Olsen	CRC	sbo@crc.uri.edu
Boyce Thorne Miller	Northwest Atlantic Marine Alliance	boyce@namanet.org
Jonathan Garber	US EPA/ORD/NHEERL/AED	garber.jonathan@epa.gov
Scott Nixon	URI- GSO	snixon@gso.uri.edu
David Beutel	CRMC	dbeutel@crmc.ri.gov
Chris Brusch	VIMS	cfb@vims.edu
DAN Goulet	CRMC	dgoulet@crmc.ri.gov
Sarah Smith	CRC/RI Sea Grant	ssmith29@mail.uri.edu
Jennifer McCann	CRC/RT Sea Grant	mccanna@crc.uri.edu
Jeremy Colby	URI- GSO	
Tiffany Smythe	CRC/RI SEAGRANT	
John King	URI- GSO	jking@gso.uri.edu
Carly Shumway	TNC	cshumway@tnc.org

## **Ocean SAMP Subcommittee meeting**

**Thursday, May 14, 2009**

**6 p.m.**

**Room 111, CACS, URI Narragansett Bay Campus**

- 1. Approval of previous meeting minutes – M. Tikoian**
- 2. Review of the Quarter 3 Progress Report – G. Fugate/K. Manning**
- 3. Update on Ocean SAMP budget – G. Fugate/K. Manning**
- 4. Report from the Management Team – G. Fugate/ J. McCann**
- 5. Legal Updates – B. Goldman**
- 6. Discussion**
- 7. Adjourn**

In accordance with notice to members of the Rhode Island Coastal Resources Management Council's Ocean Special Area Management Plan (SAMP) subcommittee, a meeting of the subcommittee was held on Tuesday, May 14, 2009 at 6 p.m. at the University of Rhode Island (URI) CACS Room 111 in Narragansett, R.I.

**MEMBERS PRESENT**

Michael M. Tikoian, Chairman  
Paul Lemont  
Don Gomez  
David Abedon

**STAFF PRESENT**

Grover Fugate, CRMC Executive Director  
Laura Ricketson-Dwyer, CRMC Public Educator  
and Information Coordinator  
Brian Goldman, CRMC Legal Counsel

**Others present:** Jen McCann, URI/Coastal Resources Center and RI Sea Grant; Kate Manning, URI/CRC

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**Call to order.** M. Tikoian called the meeting to order at 6:05 p.m.

**Item 1.** The subcommittee reviewed the minutes of the previous meeting, and accepted them unanimously.

**Item 2(combined with 3 and 4).** G. Fugate gave the subcommittee an overview of the third quarter progress report from the Ocean SAMP management team, including explanations on the budget, at the suggestion of M. Tikoian. He told the subcommittee that this report was presented in a new format, with graphs and pie charts, according to the previous recommendations from the Ocean SAMP Subcommittee. There is also a summary in the beginning of the report listing major accomplishments for the time period. K. Manning presented the budget for the time period to the subcommittee, adding that the cumulative totals for all project quarters so far were changed to periods. M. Tikoian asked how the monies for both years of the SAMP development are budgeted; if there are extra funds left over from one time period, can they be rolled into the following period, and if there are over-expenditures, can funds be cut elsewhere to compensate? K. Manning said that depends on the individual tasks, and that whatever is remaining will be spent. M. Tikoian asked how the subcommittee could ensure that spending is on-target and said he'd like to see a cash-flow projection. G. Fugate said that is part of the MOU document and also shown in the first quarter report. M. Tikoian compared projections and actual spending in the three quarters/periods to-date and asked for explanations on the differences in amounts. G. Fugate explained that because the researchers missed the field season during the first year because of the Ocean SAMP start-date, the spending projection and actual spending were off slightly. There were also some big contracts underway in February for the spring field season that are shown in the third quarter/period budget. M. Tikoian noted that the third quarter/period budget shows mostly salary, student costs and fringe and not equipment costs, and wanted to look at those figures in more depth. K. Manning explained that there is a breakdown of each

account in the report, and she showed the subcommittee where those funds were going; for example, sub contractors were filed under the heading of “encumbrance.” D. Gomez suggested that encumbrance should show what has been spent and not been spent. K. Manning said she could supply the subcommittee with that information. M. Tikoian said that if there is money left, that the SAMP team should not simply spend it, but possibly re-allocate it elsewhere. D. Gomez asked if there is a positive line item and a negative line item, can funds be shuffled around. G. Fugate said that it would need authorization from the PIs, but could be done. D. Gomez asked where that would be done, and G. Fugate said usually at a management team meeting, but that at this point in time, no deficits are projected. P. Lemont asked what the process was for moving funds to other accounts and asked whether the budget should be padded for such occurrences. G. Fugate said that as project manager, it is ultimately his decision on moving funds and that the cash flow projections actually leave very little room for adjustment.

P. Lemont expressed that the chain of command in making these types of decisions was unclear, and said that since the CRMC is the lead agency on the SAMP development, it would be prudent for the subcommittee to be aware of any issues as they arise. D. Gomez echoed his sentiments, and said he was uncertain as to the role of the subcommittee, and questioned whether the subcommittee should be executing more control over the process. M. Tikoian voiced his concern over the workload that G. Fugate was incurring with the SAMP, and suggested pulling another CRMC staff member into the process to work closely with him. D. Gomez suggested it might be beneficial for the subcommittee to meet more often than quarterly. He said that the subcommittee needs more information on the science, the risk areas, shortfalls and other topics. The graphs and charts are helpful he said, but suggested again the quad chart for mapping progress and potential problems. P. Lemont said the issue is one of communication.

G. Fugate explained that the planning timeframe is so fast that nearly 80 percent of the product comes due at the end. This is also a learning process for everyone involved, as no one has ever done an Ocean SAMP before. It’s a difficult process, time-consuming and with a timeline that’s on the fast-track, it’s not easy to communicate every meeting or decision, nor get the subcommittee’s approval on every single action. P. Lemont said the subcommittee was not interested in micro-managing, but simply wants to be well-informed. D. Gomez suggested a weekly short summary to the subcommittee to inform them of news and developments, and a need to prioritize any problems that might arise. At the request of M. Tikoian, J. McCann gave an overview of the duties of a number of people at the University of Rhode Island, its Coastal Resources Center and R.I. Sea Grant, and their role in the SAMP’s development.

J. McCann told the subcommittee that the team is working with URI researchers to ensure that the team has the bulk of the information they collected by November so work on the chapters can begin, with the expectation that the chapters will be submitted to the subcommittee and then the CRMC process can commence, with an August 2010 approval.

D. Gomez asked if there were any issues that would halt development of the SAMP. G. Fugate said that at this point it is still too early to know the answer, since there is a lot of outstanding data on a variety of research areas.

G. Fugate told the subcommittee that because of the quick pace of the SAMP development, by the time the subcommittee views the quarterly/period reports, more

work has been done beyond that not reflected in the report. The subcommittee members said they would like frequent, brief updates to supplement the reports to keep the information current.

**Item 5.** B. Goldman reported on the status of the SAMP legal matters. He said he has met with members of the Ocean SAMP legal advisory task force to clarify the direction of the task force, and is awaiting a draft memo on that topic. The task force will then hold a meeting. B. Goldman said he will be working extensively with the task force this summer.

**Discussion.** G. Fugate reported that there is a draft introduction chapter for the SAMP that will soon be submitted to the subcommittee for review. G. Fugate said that as soon as data comes in from researchers, more chapters will be written; the expectation is that the subcommittee will be able to review a number of draft chapters in the fall. M. Tikoian said he'd like to hold a subcommittee meeting during the summer, and asked that it be scheduled.

P. Lemont made a motion to have G. Fugate sign off on the Period 3 report on behalf of the subcommittee. The subcommittee voted unanimously in favor. P. Lemont discussed possible agenda items for the next meeting, and J. McCann said she would work with D. Gomez on additional changes to the report format.

**ADJOURN.** The subcommittee voted to adjourn the meeting at 8:10 p.m.

*Respectfully submitted by  
Laura Ricketson-Dwyer, CRMC public educator and information coordinator*

# OCEAN SAMP

## Stakeholder Group Meeting

Hazard Rooms A and B  
June 30, 2009, 5:30– 8:00 pm

### Agenda

**Purpose of the meeting:**

- 1) Present information on Marine Mammals and Sea Turtles related to the Ocean SAMP.
- 2) Discuss Next Steps for Ocean SAMP project

**Meeting Chair and Facilitator:** Ken Payne

- 6:00      **Welcome and Recap of the Ocean SAMP process** – Ken Payne, URI
- 6:10      **New Ocean SAMP Developments** – Grover Fugate, CRMC
- 6:20      **Ocean SAMP plans for the Summer and Fall** – Jen McCann, URI
- 6:30      **Marine Mammals and Sea Turtles.** – Dr. Robert Kenney, URI
- 7:45      **Next meetings – September 10 and October 6th, 2009**
- 8:00      **Adjourn**

## OCEAN SAMP MEETINGS AND EVENTS

July 1 – December 31st

SAVE THE DATES

### SUMMER EVENTS

July 16<sup>th</sup>: Vessel Traffic, Safety, and Offshore Wind Farms: Navigating the Coast Guard's Review Process. *Edward G. LeBlanc, Coast Guard*

August 6<sup>th</sup>: Rhode Island Ocean Zoning: Where NOT to put a Wind Farm in Rhode Island Waters. *Dr. Malcolm Spaulding, URI Ocean Engineering*

Aug. 12/13th?: Everything and Anything you wanted to know about Alternative Energy but were afraid to ask. *Walt Musial, U.S. Department of Energy, National Renewable Energy Laboratory*

Sept. 10<sup>th</sup>: Farming the Deep Blue: Opportunities for Increasing Sustainable Seafood Production in New England, *Dr. Richard Langan, Atlantic Marine Aquaculture Center, University of New Hampshire*

### October 2009 – July 2010 Stakeholder Involvement

Stakeholder Group Meetings: Monthly stakeholder group meetings will focus on reviewing the draft chapters as well as presenting additional information on Ocean SAMP issues.

Public Informational events: Additional public events/presentations will be organized to provide the public with necessary information to more effectively engage in the Ocean SAMP process.

### OCEAN SAMP STAKEHOLDER MEETING DATES

- September x, 2009 (Block Island)
- October 6<sup>th</sup>, 2009
- November 4, 2009
- December 1, 2010
- January 5, 2010
- February 2<sup>nd</sup> 2010
- March 2<sup>nd</sup>, 2010
- April 6<sup>th</sup>, 2010
- May 4<sup>th</sup>, 2010
- June 1<sup>st</sup>, 2010

## SIGN IN SHEET

Meeting Title:

Date:

Name (please print neatly)	Department / Organization	E-mail (optional - to add to ListServ)
PAUL M SANROMA	RI WIND ALLIANCE	PAUL@SANROMA.ORG
MARK A. MANCIANO	RI AFL-CIO	riaflcio@aol.com
Chris Kearns		KEARN141@aol.com
Wendy Walker	Save the Bay	wwalker@savebay.org
Kim Gaffney	Town of New Shoreham	
Kira Stillwell	RINHS	kira@etal.uri.edu
YOLA HERRERA	CRC - URI	
RAY NICKERSON	TOWN OF SOUTH KINGSTOWN	
Andros de Lasa	DEEPWATER WIND	
JOSEPH CIRILLO	EGMCC	JAC@ETAL.URI.EDU
Bob Kenney	URI-GSD	
Jeff Brocholl	WCRPC	jb@wcrpc.us
Marie Ester	Loon Env	
Garry Dellinger	RFLA	LAO0626@aol.com
CHRIS TOMPSON	NUWC DRUNAT	
Drew Carey	Coastal Vision	
John Louso	CRMC	
SILEEN GRAHAM	ASA	egraham@asascience.com
Bob Mushen	Town of Little Compton	RMUSHEN@TLCRI.COM
David Brown	People's Power + Light	mockingbird.design@verizon.net



## SIGN IN SHEET

Meeting Title:

Date:

6/30/09

Name (please print neatly)

Department / Organization

E-mail (optional - to  
add to ListServ)

Merritt Meyer

RI Wind Tech

mking67@cox.net

Rich Hittinger

RISAA

COLIN LAZAWKI

NUWC

Michael Kajawa

DWW

mkajawa@dwwind.com

PAUL LEMONT

CRMC

Dr. KATHY LEMONT

CRMC

Don Gomez

CRMC

S. PAVC AND RIEERMCSA

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Kathleen Nannery

TA TNC

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Chris Wiseman

DWW

Deborah French-McGoy

Applied Science Assoc.

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## SIGN IN SHEET

Meeting Title:

Date:

Name (please print neatly)

Department / Organization

E-mail (optional - to  
add to ListServ)

Terry Meyer

GIS Mapping + Design

terry\_meyer@cox.net

David Casagrande

URI OCE

Melgan Higgins

RWU SOL

Kathy Vignesi-Rapan

URI

DAVID PRESZOT

RI SURFRIDERA / STB

Joe Forti

Ecology + environment

jforti@enc.com

Esika Lentz

URI

**Attachment B**  
Ocean SAMP Research Status  
Status of Individual Research Efforts

Attachment B – Ocean SAMP Research Status  
April 30, 2009 – June 30, 2009

Status of Individual Research Efforts

**Engineering Studies in support of the Ocean SAMP**

**Principal Investigator:** Malcolm L. Spaulding, URI Graduate School of Oceanography, Ocean Engineering

**Overall completion estimate: 85%**

**A. *Wave, and storm surge characterization for RI coastal waters***

1. Wind power distribution analysis by season and location performed and added to final report. New data sources identified (DOE Block Island and WeatherFlow Block Island Ferry site) and obtained. Final report schedule delayed because of new data sources. Attend meetings with DeepWater Wind to discuss wind resource assessment off Block Island
2. Completion of final report progressing

**B. *Marine transportation paths based on AIS data***

1. Completion of final report progressing

**C. *Revised wind farm site screening analysis***

1. Internal review of TDI paper completed. Additional statistical analyses performed to compare TDI and PCCA predictions. Paper revised, response to reviewers completed, and revised paper submitted to Project Management Team for release. Reviewed and approved GIS layers on sighting analysis for public release.

**RI Wind Farm Structures/Foundations Study – Support Structures and Foundations for Offshore Wind Turbines**

**Principal Investigator(s) & Staff:** Sau-Lon James Hu

**Overall completion estimate: 85%**

1. Current focus on lattice (jacket) structures
2. Current focus on parameters: water depth, depth to bedrock
3. Developed technology type factor based on weight of structure

**RI Wind Farm Siting Study- Acoustic Noise and Electromagnetic Effects**

**Principal Investigator:** James H. Miller, URI Graduate School of Oceanography, Ocean Engineering

**Overall completion estimate: 20%**

1. Data analysis of acoustic data continues. Air acoustic data collection begun and analysis started
2. Preliminary design of noise prediction model in progress
3. EM data collection plan begun and sensors being assembled.
4. EM effects on fish and other animals researched

### **Characterizing Physical Oceanography of the Rhode Island Coastal Ocean**

**Principal Investigator:**Dan Codiga, URI Graduate School of Oceanography

**Overall completion estimate: 50%**

1. Delays to progress on this review/analysis result from the PIs spending substantial time planning for the (previously unforeseen) SAMP Physical Oceanography (PO) fieldwork instead.
2. Because upcoming SAMP PO fieldwork is time-sensitive in order to achieve Fall 2009 sampling, it has been prioritized ahead of this review/analysis.
3. Advance preparations for upcoming SAMP fieldwork are time intensive as they involve cruise planning and instrument assembly.

### **Geospatial Data/Mapping Support for the RI Ocean SAMP**

**Principal Investigator:**Christopher Damon, URI Natural Resource Science

**Overall completion estimate: 45%**

#### Consolidate geospatial data and metadata

- Extended Tier 1 analysis data added to the database along with mobile and fixed gear fishing areas. This work is ongoing as PIs submit data. SAMP boundary was moved and the Tier 1 analysis are being rerun to reflect these changes.
- Criteria for a Phase 2 study are still being established, along with protocols for habitat weighting and valuation models.
- Basic templates complete for both 8.5 X 11 and 11x17 maps. May be revised as project proceeds. Map templates were redesigned for smoother operation and made available for download.

#### Work with scientists developing screening criteria

- his work is ongoing as project proceeds. The Ecological Service Value Index proposal is under review, with habitat valuations beginning upon acceptance.
- Making recommendations to researchers as they proceed into the summer data collection season. Redesigned the SAMP boundary, moving the northern-most position to the mouth of Narragansett Bay.

#### Develop cartographic template

- Graphics provided to the PIs as requested to satisfy meeting needs. Developed posters describing the SAMP data distribution process and presented at RI Natural History Survey and ESRI International Users Group conferences.

Prepare cartographic products in hardcopy/digital formats

- Graphics provided to the PIs as requested to satisfy meeting needs. Provided fishing stakeholders with custom maps so they could assess the potential impacts of offshore development on individual fishing grounds.

**Marine Mammals and Sea Turtles Analysis**

**Principal Investigator:** Robert D. Kenney, URI Graduate School of Oceanography

**Overall completion estimate: 99%**

Study Tasks:

1. The draft final technical report was submitted to the Ocean SAMP Management Team for review in mid-June.
2. Data collection fully completed. The final dataset has been created and archived.
3. All of the location errors in the data used in the preliminary maps have been corrected. Final versions of all the raw data maps were included in the draft final technical report.
4. All of the SPUE analyses were completed in the previous quarter.
5. Final versions of the kriged SPUE model outputs were included in the draft final technical report. Note that the maps in the report are not drawn to the full geographic data extent in order to show detail in the SAMP area, but the archived shapefiles include the full extent.

**Air quality and meteorology studies in support of ocean SAMP**

**Principal Investigator:** John Merrill, Graduate School of Oceanography

**Overall completion estimate: 70%**

1. Gathered data and performed preliminary analysis.
2. Taking account of suggestions from DEM in regard to air emission impacts of construction project.

**Wind Farm Siting Study -Regional Subsurface Geology, Surficial Sediment, Benthic Habitat Distribution, and Cultural Resources**

**Principal Investigator:** John W. King, URI Department of Oceanography

**Overall completion estimate: 50%**

**Objectives :**

- Objective 1. Conduct coarse resolution, geophysical, geological, biological surveys and groundtruthing studies of sites 95% complete. Mapped 90% of expanded area J to the west and south of Block Island. Total area mapped is 45 sq. miles.
- Objective 2. Develop a GIS data layer of regional subsurface geology, including depth to bedrock and type of subsurface materials 80% complete. Data analysis in progress.
- Objective 3. Develop a GIS data layer of geological habitat 80% complete. Data analysis well underway.
- Objective 4. Develop a GIS layer of biological habitat using NOAA CMECS classification system 75% complete. Literature review completed, samples collected, samples analyzed. Data analysis underway.
- Objectives 5-7: Assess the potential for submerged historic and prehistoric archaeological sites within SAMP areas with first existing data and then newly acquired geophysical survey data 65% completed. Literature review completed. New data analysis underway.
- Objective 8: Complete final reports and deliver to CRC 70% complete. Data layers under construction.

**Tasks :****Objective 1. (Tasks 1-3)**

- Collect existing data from literature.complete. Literature collected and largely analyzed.
- Conduct low resolution, subbottom, sidescan, and interferometric sonar surveys of study sites 90% complete. Mapped 95% of expanded area J.
- Conduct groundtruthing surveys, including SPI, underwater video, grab samples and limited vibracoring 95% complete. Nearing completion in area J.

**Objective 2. (Tasks 4-5)**

- Analyze and interpret subbottom sonar data 85% complete. Data analysis nearing completion for area J. New survey with a more powerful system 30% complete.
- Construct a GIS data layer of subbottom geology, including depth to bedrock and type of subsurface materials. Task well underway for area J.

**Objective 3. (Tasks 6-8)**

- Analyze and interpret sidescan and bathymetry data; pick areas for groundtruth studies. completed. Data analyzed, sites picked, grab samples obtained, video studies complete.
- Obtain groundtruth data (SPI, video, grab samples) 95% complete. Field work in progress in area J.
- Construct a GIS data layer of geologic habitat needed for floating zone tool. Work is underway.

Objective 4. (Tasks 9-11)

- Collect existing data from literature. Work nearing completion.
- Analyze benthic grab samples. Samples collected, samples counted, and data analysis in progress.
- Prepare a biological habitat GIS data layer needed for floating zone tool. Work underway.

Objectives 5-7. (Tasks 12-14)

- Collect and assess existing data. Work nearing completion.
- Assess newly acquired geophysical data. Data being analyzed.
- Construct a GIS layer of archaeological sites needed for floating zone tool. Work in progress.

Objective 8. (Task 15)

- Final report completion and submission to CRC. Work underway.

**Spatial distribution and abundance, and flight ecology of Marine and Coastal Birds off coastal Rhode Island**

**Principal Investigator:**Dr. Peter Paton, URI Department of Natural Resources Science

**Overall completion estimate: 46%**

1. Compiled data from USFWS, DEM, Kingston Wildlife Research Station, and URI
2. Designed offshore systematic transect surveys in Ocean SAMP study area, designed aerial survey routes to cover entire Ocean SAMP study area, designed and had reviewed (Michael Amaral - USFWS endangered species biologist; Jeff Spendelow -USGS ) surveys



protocols for Roseate Terns. Presented research protocols to USFWS on 25 June 2009 at Concord, NH.

3. During this quarter, collected data from 1 April to 30 June, 24 hrs per day, 7 days per week
4. Initiated offshore transect surveys S and E of Block Island using Francis Fleet boats - conducted 4 of these surveys during this quarter.
5. Collected radar data from 1 April to 30 April 2009 at SW corner of island. Had problems with sea clutter at SW site for horizontal radar, but not vertical radar. Moved radar to N end on 30 April, collected data at N end from 1 May through 30 June 2009, collecting data 24 hrs per day/ 7 days per week. Minimal problems with sea clutter at N end.
6. Assessed impact of sea clutter on radar data

## **Attachment C**

Ocean SAMP Document Timeline  
Draft Chapter Table of Contents

**Ocean SAMP document timeline**  
**Submittal of Draft Chapters to Public**  
**Timeline is a guide and subject to change**

	Draft Chapters	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
0	Executive Summary											X			
100	Introduction (Draft, Final)				X							X			
200	Ecology of the SAMP Region									X					
300	Physical and Natural Environment								X						
400	Cultural and Historic Resources							X							
500	Fisheries Resources and Uses (Preliminary, Final)								X					X	
600	Recreation and Tourism					X									
700	Marine Transportation, Navigation, Infrastructure					X									
800	Renewable Energy									X					
900	Other Future Uses							X							
1000	New Policies, Procedures, and Regulations										X				
1100	Future Research										X				
1300	Future fed process and fed consistency									X					

**Notes:**

- 1) Federal and State regulations and requirements, and stakeholder recommendations will be incorporated into all chapters.
- 2) RWU Legal Program will provide existing policies, procedures and regulatory standards for all chapters.
- 3) CRC staff will provide global climate change information for all chapters.

## Ocean SAMP – Cultural & Historic Resources, Technical Report Outline DRAFT 7/8/09

Section	Data/Research	Contact(s)	Team Member	Completion Date (est)
<b>500.0 Introduction</b>				
	Describe scope of chapter Define historic, cultural, archaeological & tribal resources.	Literature review		Crean
<b>500.1 Overview of Historical Context &amp; Maritime History of Rhode Island &amp; Block Island Sounds</b>				
	Natural History Tribal History Pre-Historic Context Historic Context	Literature review, consultation with experts	RI Historic Preservation & Heritage Commission (RIHPHC): Rick Greenwood & Charlotte Taylor Narragansett Indian Tribe Historic Preservation Officer (NITHPO), John Brown	Crean, Mather, & Jensen
<b>500.2 Submerged Historic Sites / Archaeological Resources</b>				
	Identification of marine archaeological sites	Literature review, consultation with experts, existing GIS layers	Greenwood, Taylor, Brown	Mather & Jensen
<b>500.3 Coastal Land-Based Historic Sites</b>				
	Sites and districts currently listed on National Register of Historic Places Overview of candidate sites & districts	Literature review, consultation with experts, existing GIS layers	Greenwood, Taylor, Brown, Steve Kut & Bill Lincourt (RIDOT)	Crean, Mather, & Jensen

**Ocean SAMP – Cultural & Historic Resources, Technical Report Outline DRAFT 7/8/09**

<b>500.4 Potential Impacts to Historic / Cultural Resources</b>					
	Requirements for submerged historic sites On-shore visual impacts & determination of adverse effect Global Climate Change	Literature review, consultation with experts	Greenwood, Taylor, Brown, Erin Trager/Melanie Stright (MMS), Bob DeSista (ACOE)	Crean, Mather, & Jensen	
<b>500.5 Requirements for Development Proposals</b>					
	Marine Archaeology Assessment Visual Impact Assessment Best Practices Mitigation Strategies	Literature review, consultation with experts	Greenwood, Taylor, Brown, Erin Trager/Melanie Stright (MMS), Bob DeSista (ACOE)	Crean, Mather, & Jensen	
<b>500.6 Future Research Needs</b>					
	Baseline Information Sensitivity Analysis	Develop with RI HPHC & NITHPO	Greenwood, Taylor, Brown	Crean, Mather, & Jensen	
<b>500.7 Existing Policies &amp; Regulatory Standards</b>					
	RI State Waters Federal Waters State, Federal, & Tribal Consultation Requirements Project Review Process at State & Federal Levels	Literature review, consultation with experts	Greenwood, Taylor, Brown, Erin Trager/Melanie Stright (MMS), Bob DeSista (ACOE)	Crean, Payne, Mather, Jensen, Goldman, RWU?	

**DRAFT Ocean SAMP Fisheries Chapter Outline** *rev. July 23, 2009*

**Ocean SAMP Fisheries Team:** Jennifer McCann, Tiffany Smythe, Sarah Smith, and Jim Tobey, URI Coastal Resources Center/RI Sea Grant; Megan Higgins, RI Sea Grant Legal Program; David Beutel, RI Coastal Resources Management Council; Jeremy Collie, John King, and Jim Miller, URI Graduate School of Oceanography; Frank Thomsen, Centre for Environment, Fisheries, and Aquaculture Science (CEFAS), UK

	Section	Data/Research	Team Member	Compl. Date (est)	Status
<b>0.</b>	<b>Introduction</b>				
0A.	<i>Overview/purpose of this chapter</i>		Smythe	6/09	10% complete (6/29)
<b>1.</b>	<b>Description of marine fisheries resources within the SAMP area</b>				
1A.	<i>Description of species key to commercial/recreational fisheries</i>				
i.	List of key commercial/recreational species	Review of NMFS landing data; consultation with fisheries stakeholders and experts	Smythe	6/09	<i>Drafted</i>
ii.	Descriptive data/baseline characterization of key species	Collie analysis based on DEM, NEAMAP, NMFS and other data sources	Collie et al	9/09	
iii.	Select literature review on key species	Literature review: most current stock assessment & trends; spawning activity; seasonal migration; brief list history	Smith, Smythe	8/09	
iv.	Stocks of concern: winter flounder; yellowtail flounder; and cod	Literature review: most current stock assessment & trends; spawning activity; seasonal migration; brief life history	Smith, Smythe	8/09	
1B.	<i>Description of habitats within SAMP area</i>				
i.	Descriptive data and maps of benthic habitat within SAMP area	King study; King/Collie study	King/Collie	TBD	<i>Partially completed by SAMP deadline</i>
ii.	Identification/discussion of sensitive habitat areas for abovementioned species	King study; King/Collie study	King/Collie	TBD	“
iii.	Select literature review to supplement above	Literature review	Smith	9/09	
iv.	Discussion of “critical habitat” provision of ESA and “essential fish habitat” provision of MSA	Literature review	Smythe	6/09	Drafted

**DRAFT Ocean SAMP Fisheries Chapter Outline** *rev. July 23, 2009*

<i>1C.</i>	<i>Threatened and endangered species</i>				
i.	Identification/brief descriptions of shortnose sturgeon; Atlantic salmon; Atlantic sturgeon; other?	NOAA Office of Protected Species; literature review	Smith	7/09	
<i>1D.</i>	<i>Other species</i>				
i.	forage fish; anadromous; demersal and pelagic finfish; crustaceans; shellfish	Literature review	Smith	8/09	
<b>2.</b>	<b>Description of commercial and recreational fisheries within the SAMP area</b>				
<i>2A.</i>	<i>Descriptions of commercial and recreational fisheries industries</i>	<i>Literature review; interviews with fisheries experts and stakeholders</i>			
i.	Description of main fisheries including home ports, gear used, fleet size, vessel size/maneuvering characteristics	Literature review; interviews with fisheries experts and stakeholders	Smith	6/09	75% complete (7/23)
ii.	Description of RI's fishing community and social, historic, and cultural value of fisheries to RI	Literature review; interviews with fisheries experts and stakeholders	Smith	6/09	complete (7/23)
<i>2B.</i>	<i>Description of the fisheries management arena</i>	<i>Literature review; interviews with fisheries experts and managers</i>			
i.	Fisheries regulatory environment and management framework	RWU legal team/resources	Higgins	TBD	
<i>2C.</i>	<i>Areas of commercial and recreational fishing activity</i>				
i.	Fisheries usage maps	Beutel/Smythe maps	Smythe	3/09	Completed; to be revised?
ii.	Maps of NMFS data that refine/corroborate fisheries usage area maps	Smythe/Damon GIS mapping and analysis of available NMFS data	Smythe	TBD	Depends on when we receive data
iii.	Description of usage maps, data sources, and methodologies	Beutel/Smythe/Damon work	Smythe	TBD	Depends on when we receive data
<i>2D.</i>	<i>Economic significance of commercial and recreational fisheries</i>	<i>NMFS landings data; literature review</i>	<i>Smith</i>	<i>7/09</i>	<i>25% complete (7/23)</i>

**DRAFT Ocean SAMP Fisheries Chapter Outline** *rev. July 23, 2009*

<b>3.</b>	<b>Impacts on fisheries resources</b>				
3A.	<i>Current/future impacts of global climate change on fisheries resources</i>	Literature review	Tobey	TBD	
3B.	<i>Impacts of other human uses on fisheries</i>	Literature review	Smythe	8/09	
<b>4.</b>	<b>Fisheries and offshore renewable energy</b>				
4A.	<i>Potential impacts of offshore renewable energy on fisheries resources and uses</i>				
i.	Overview of potential impacts	Literature review; incorporate fisheries stakeholders' issues and concerns	Smythe	7/09	10% complete (6/29)
ii.	Acoustics	Miller study; Thomsen study; literature review; incorporate fisheries stakeholders' issues and concerns	Smythe, Miller, Thomsen	12/09	
iii.	EMF	Miller study; Thomsen study; literature review; incorporate fisheries stakeholders' issues and concerns	Smythe, Miller, Thomsen	12/09	
iv.	Habitat disruption	Thomsen study; literature review; incorporate fisheries stakeholders' issues and concerns	Smythe, Thomsen	12/09	
4B.	<i>Potential benefits of offshore renewable energy to fisheries</i>				
i.	Overview of potential benefits	Literature review; incorporate fisheries stakeholders' issues and concerns	Smythe	7/09	10% complete (6/29)
ii.	Reef effect (attraction vs. enhancement)	Thomsen study; literature review	Smythe, Thomsen	12/09	
4C.	<i>Strategies to mitigate the impacts of offshore renewable energy on fisheries</i>				
i.	Overview of mitigation strategies used in Europe	Literature review	Smythe	7/09	
ii.	Detailed review of mitigation strategies used in Europe	Thomsen study	Smythe, Thomsen	12/09	



**DRAFT Ocean SAMP Fisheries Chapter Outline** *rev. July 23, 2009*

4D.	<i>Best practices to manage fisheries within the context of offshore renewable energy</i>				
i.	Overview of European best management practices	Literature review	Smythe	7/09	
ii.	Detailed review of European best management practices	Thomsen study	Smythe, Thomsen	12/09	
4E.	<i>Fisheries monitoring protocols at offshore renewable energy facilities</i>	<i>Thomsen study</i>	<i>Thomsen, Smythe</i>		
i.	Overview of European monitoring protocols	Literature review	Smythe	7/09	
ii.	Detailed review of European monitoring protocols	Thomsen study	Smythe, Thomsen	12/09	
<b>5.</b>	<b>Future research needs</b>				
5A.	<i>General data gaps/research needs</i>		<i>Smythe</i>	<i>12/09</i>	<i>10% complete (6/29)</i>
5B.	<i>Site-specific studies/research needs to be met by a renewable energy proponent</i>		<i>Smythe</i>	<i>12/09</i>	<i>20% complete (6/29)</i>
<b>6.</b>	<b>Policy recommendations</b>		<i>Smythe</i>		

DRAFT

**Ocean SAMP Recreational Uses and Tourism Chapter Outline**  
**DRAFT 8/3/2009 FOR INTERNAL USE ONLY**

Section	Data/Research	Contact(s)	Team Member	Completion Date (est)	Status
<b>1. Introduction</b>					
i.	Describe scope of chapter Distinguish between recreation and tourism Define relationship between recreation & tourism Discussion of Heritage Tourism	Literature review	Armsby/Smythe		~50%
<b>2. Baseline characterization of recreational uses of the SAMP Area</b>					
<b>2A. Historic recreational uses of the SAMP area</b>					
i.	Historical Tourism Areas (Newport, Narragansett, Watch Hill)	Literature Review			
ii.	Yacht racing (America's Cup) and other boat-based recreation	Literature review, consultation with stakeholders and experts	Smythe		
<b>2B. Description of recreation and tourism uses</b>					
i.	Boat-based recreation & tourism Recreational boating Short discussion of Recreational Fishing as it relates to boating Sailboat racing Diving Cruise Ships Wildlife tourism Tall ships/educational vessels Parasailing, kiteboarding, Surfing Kayak/Canoeing	Literature review; consultation with stakeholders and experts; existing GIS data layers	Keyworth, Cochran, Wallace, McCurdy, LeBlanc, Bellavance, Rainone, Court, Rogers, Scanlon	Armsby	~40%
ii.	Shore-based recreation & tourism	Literature review; RI SCORP;	Keyworth, Cochran	Armsby	

**Ocean SAMP Recreational Uses and Tourism Chapter Outline**  
**DRAFT 8/3/2009 FOR INTERNAL USE ONLY**

	Beaches, parks, and open space Marinas/yacht clubs Boat ramps	consultation with stakeholders and experts; GIS data layers - *emphasize how coastal communities/businesses are sustained by rec activity in SAMP area (federal consistency)	(marinas/yacht clubs); Chambers of Commerce/Visitor Bureaus EDC			
<b>2C. Maps depicting areas of recreational uses of the SAMP area</b>						
i.	Map showing sailboat race courses/marine event areas	Create through review of Sailing Instructions & USCG data; consultation with stakeholders & experts	Keyworth, Wallace, Kern, Elwell	Armsby/Smythe		~30%
ii.	Map showing dive sites	Create through consultation with stakeholders and experts; supplement with Battelle data	RIPCBA contacts, Conti, others TBD	Armsby/Smythe		~50%
iii.	Map showing wildlife tourism sites	Create through consultation with stakeholders and experts	RIPCBA contacts, Conti, others TBD	Armsby/Smythe		~50%
iv.	Map showing beaches, parks, and open space adjoining the SAMP area	Existing RIGIS/CRMC data layers	Chambers of Commerce/Visitors Bureau	Armsby		~20%
v.	Map showing marinas/yacht clubs /boat ramps adjoining the SAMP area	Existing RIGIS/CRMC data layers	Chambers of Commerce/Visitors Bureau	Armsby		~20%
<b>3. Value of recreational uses of the SAMP area</b>						
<b>3A. Economic value</b>						
i.	Available data on the economic impact of marine trades and rec businesses	Literature review, National Ocean Economic Program		Armsby		~15%
ii.	Connection to tourism	EDC		Armsby		
<b>3B. Social, cultural, and historic value</b>						
i.	Available data on the social, cultural, and historic value of these activities to the state			Armsby		
ii.	Connection to tourism			Armsby		

**Ocean SAMP Recreational Uses and Tourism Chapter Outline**  
**DRAFT 8/3/2009 FOR INTERNAL USE ONLY**

<b>4. Impacts of existing activities and trends on recreational uses</b>					
<b>4A. Global climate change</b>					
i.	Impacts on Tourism			Tobey	
ii.	Impacts of GCC on recreational activities and infrastructure	Literature review		Tobey	
<b>4B. Use conflicts</b>					
i.	Which ones? TBD	Base this on stakeholders' issues/concerns	General stakeholders, LeBlanc, Scanlon	Armsby/Smythe	
<b>5. Recreational uses and offshore renewable energy</b>					
<b>5A.</b>	<b>Potential impacts of offshore renewable energy on recreational uses (*particular attention to visual impacts)</b>	Literature review (Europe); stakeholder issues/concerns; Cape Wind EIS; GOM oil rigs		Armsby/Crean	
<b>5B.</b>	<b>Potential benefits of offshore renewable energy on recreational uses</b>	Literature review (Europe); stakeholder issues/concerns; Cape Wind EIS; GOM oil rigs		Armsby	
<b>5C.</b>	<b>Strategies to mitigate the impacts of offshore renewable energy on recreational uses</b>	Literature review (Europe); stakeholder issues/concerns; Cape Wind EIS; GOM oil rigs		Armsby	
<b>6. Future research needs</b>					
<b>6A. General data gaps/research needs</b>					
<b>6B. Requirements for site specific studies to be completed by developer</b>					
i.	Field observations of boating intensity at proposed development site			Armsby/Smythe	
ii.	Others (TBD)			Armsby/Smythe	
<b>7.</b>	<b>Existing Regulatory Framework</b>			Legal Team	
<b>8.</b>	<b>Recommendations</b>			Armsby/Smythe	

## Ocean SAMP Marine Transportation, Navigation and Infrastructure Chapter Outline

**Draft 8/3/2009 FOR INTERNAL USE ONLY**

Section	Data/Research	Contact(s)	Team Member	Completion Date (est)	Status
<b>1. Introduction</b>					
1A.	Definition/explanation of the marine transportation system (MTS) and nav infrastructure	Literature review	Armsby/Smythe		~10%
<b>2. Baseline characterization of marine transportation activity and navigation infrastructure within the SAMP Area</b>					
<b>2A. History of Marine Transportation in the SAMP area</b>					
i.	Historical Shipping	Literature review	Smythe		
<b>2B. Description of different marine transportation uses:</b>					
i.	Commercial shipping In/out of Narragansett Bay Transit b/t New York and Boston	Literature review; consultation with stakeholders and experts; existing GIS data layers *emphasize how coastal communities/businesses are sustained by trans activity in SAMP area (federal consistency)	Armsby		~40%
ii.	Vessel types: Cargo ships Tug/barge Pilot boats Passenger ferries Cruise ships Government/enforcement Military/Naval Vessels	Literature review; consultation with stakeholders and experts Weaver Cove EIS  USACE: Data file "manu9950.txt" is a summary of all of the cargo moves for calendar years 1998-2007. <a href="http://www.iwr.usace.army.mil/ndc/data/datawvus.htm">http://www.iwr.usace.army.mil/ndc/data/datawvus.htm</a>	NE Pilots & Howie McVay Evan Matthews, Ferry operators, ProvPort	Armsby	~20%
iii.	Military Uses: Navy Routes, Submarine Activity?	Literature review,	Sam DeBow, Ed LeBlanc, Chris Tompsett?	Young	
<b>2C. Description of landside port infrastructure that supports the above uses:</b>					
i.	Narragansett Bay (Providence, Quonset, Fall	CRC Ports inventory; USACE port series; literature review	Evan Matthews	Armsby, Smythe	

**Ocean SAMP Marine Transportation, Navigation and Infrastructure Chapter Outline**

**Draft 8/3/2009 FOR INTERNAL USE ONLY**

	River, Newport, Point Judith)					
ii.	Block Island	CRC Ports inventory; USACE port series; literature review		Armsby, Smythe		
<b>2D. Description of navigation infrastructure within the SAMP area</b>						
i.	Designated channels, traffic separation schemes, precautionary areas	Chart review, U.S. Coast Pilot, Battelle Study	Ed LeBlanc	Smythe		~15%
ii.	Designated anchorages Official aids to navigation Harbors of refuge Military Closures	Chart Review, U.S. Coast Pilot, Battelle Study	Ed LeBlanc	Smythe		~15%
<b>2E. Description of Non-navigation infrastructure within the SAMP area</b>						
i.	Undersea cables Unexploded ordinances Disposal Sites	Chart review, U.S. Coast Pilot, Battelle Study		Young		
<b>3. Maps</b>						
i.	Map of AIS Data	Spaulding study		Armsby/Smythe		100%
ii.	Map of Ferry Routes	Battelle Study, RIGIS layer ferry04.zip		Armsby/Smythe		~40%
iii.	Map of Pilot Boarding Areas	CRC Ports Inventory, Battelle Study, Weaver Cove EIS		Armsby/Smythe		~30%
iv.	Map of Designated Anchorages	CRC Ports Inventory, Battelle Study		Armsby/Smythe		~20%
v.	Map of Non-navigational Infrastructure (Undersea cables, Unexploded ordinances, Disposal Sites)	Chart review, U.S. Coast Pilot, Battelle Study	Damon	Armsby/Smythe		
vi.	Map of Right Whale Closure Areas	EDC Data Layer	Damon			
vii.	Map of Military Use Areas		Tompsett	Armsby/Smythe		
<b>4. Value of Marine Transportation/ Navigational Uses Within the SAMP Area</b>						

**Ocean SAMP Marine Transportation, Navigation and Infrastructure Chapter Outline**  
**Draft 8/3/2009 FOR INTERNAL USE ONLY**

<b>4A.</b>	<b>Economic Value</b>		Evan Matthews, Howie McVay, Working Waterfront	Armsby		
<b>4B.</b>	<b>Social, Cultural and Historic Value</b>			Armsby		
<b>5. Impacts of Existing Activities</b>						
<b>5A.</b>	<b>Global Climate Change</b>			<b>Tobey</b>		
<b>5B.</b>	<b>Use Conflicts</b>			<b>Armsby</b>		
<b>6. Marine Transportation Future Trends</b>						
<b>i.</b>	<b>Increased Marine Transportation</b>	NORAD Data	Marine Pilots			
<b>ii.</b>	<b>Short Sea Shipping</b>		Evan Matthews and Steve King, Marine Pilots	<b>Smythe</b>		
<b>7. Marine Transportation/Navigation and Offshore Renewable Energy</b>						
<b>7A.</b>	<b>Potential impacts of offshore renewable energy on Marine Transportation/Navigation</b>	<b>Literature review (Europe); stakeholder issues/concerns; Cape Wind EIS; GOM oil rigs</b>		<b>Armsby</b>		
<b>i.</b>	Navigation safety concerns	Cape Wind EIS; consultation with experts (ref radar issue; representation on chart; concerns re: potential confusion with pilot station like Ambrose light?)				
<b>7B.</b>	<b>Strategies to mitigate the impacts of offshore renewable energy on Marine Transportation/Navigation</b>	<b>Literature review (Europe); Cape Wind EIS; GOM oil rigs</b>		<b>Armsby/ Smythe</b>		
<b>8.</b>	<b>Future Research Needs</b>			Armsby/ Smythe		
<b>9.</b>	<b>Existing Regulatory Framework</b>			Legal Team		
<b>10.</b>	<b>Policy Recommendations</b>			Armsby/ Smythe		

**Renewable Energy**  
**Chapter 11**  
Ocean SAMP

**1100. Introduction**

**1101. Renewable Energy**

1101.1 Global Renewable Energy Consumption and Growth Trends

1101.2 Renewable Energy in the United States

1101.3 Renewable Energy Opportunities in Rhode Island

**1102. Wind Resources and Wind Power Growth**

1102.1 Global Wind Power Capacity

1102.2 Wind Power Capacity in the United States

1102.3 Costs of Wind Power

1102.4 Incentives and Impediments to Growth

**1103. Offshore Wind Power**

1103.1 Global Generation Capacity

1103.2 Offshore Wind Energy Resources in the United States and Northeast

1103.3 Offshore Wind Farm Projects in the U.S.

1103.4 Evolving Technology

1103.5 Economic and Financial Aspects

1103.6 Visual Considerations

1103.7 Manufacturing, Materials and Jobs

1103.8 Regulatory Environment

1103.9 Other Challenges to Growth



**FINANCIAL ACTIVITIES**  
**Fourth Period**  
**April 1, 2009 to June 30, 2009**

**Overview**

The total project expenditures for period IV were \$784,926.12. Expenditures by period are presented below in *Figure 1. Periodic & Cumulative Totals - All Project Activities*. In addition, an illustrative overview of spending is provided in *Figure 2. Expenditure Overview by Category in Dollars* and *Figure 3. Expenditure Overview by Percent*.

Funding for the work performed by the R/V Endeavor on the Ocean SAMP for Year I came directly from the RI Endeavor Program ([http://www.gso.uri.edu/riep/p\\_description.html](http://www.gso.uri.edu/riep/p_description.html)).

**Sub awards**

Each Ocean SAMP sub award has been assigned an individual University of Rhode Island account. A summary of expenditures by sub award is provided in *Figure 4. Summary of Project Expenditures Year I*. Illustrative charts of sub award expenditures by category are offered in *Figure 5. URI Sub award Cumulative Expenditures by Category*.

**Encumbrances**

The encumbrance process is a method which identifies for managers all committed funds, whether expended or unexpended, against their budget. Encumbering the funds needed for future payments to current personnel, students and vendors provides a true picture of the funding still available in a project account.

Encumbrances during period ending 6/30/09 totaled \$239,776 and included:

ENCUMBRANCE	PERSONNEL	STUDENT/GRAD	FRINGE	OPERATING	SUBCONTRACTS	TRAVEL	TOTAL
AMOUNT	\$34,817	\$20,378	\$841	\$77	\$176,752	\$6910	\$239,776

Figure 1. Periodic Cumulative Totals - All Projects Activities

PERIODIC SUMMARY OF PROJECT EXPENDITURES								
June 30, 2009								
University of Rhode Island								
OCEAN OFFSHORE SPECIAL AREA MANAGEMENT PLAN (SAMP)								
Summary of Project Expenditures: June 30, 2009	Period	Period I	Period II	Period III	Period IV	Period V		
OCEAN SAMP-PERIODIC EXPENDITURE REPORT	6/30/2009							
CUMULATIVE TOTALS-All Projects	BUDGET	PERIOD I	PERIOD II	PERIOD III	PERIOD IV	PERIOD V	Total Expenditures:	Fund Balance:
Personnel: Staff	\$1,092,543.60	\$21,114.28	\$116,852.57	\$166,188.99	\$201,571.15	\$0.00	\$505,726.99	\$586,816.61
Personnel: Students	\$305,816.70	\$5,469.50	\$10,150.34	\$27,544.94	\$31,776.80	\$0.00	\$74,941.58	\$230,875.12
Fringe Benefits:	\$393,928.20	\$2,121.60	\$41,949.43	\$60,829.39	\$57,388.40	\$0.00	\$162,288.82	\$231,639.38
Operating Expenses:	\$217,682.40	\$6,496.34	\$59,846.57	\$16,535.44	\$75,670.43	\$0.00	\$158,548.78	\$59,133.62
Publications:	\$63,000.00	\$6,124.00	\$0.00	\$0.00	(\$6,124.00)	\$0.00	\$0.00	\$63,000.00
Subcontracts:	\$506,106.00	\$0.00	\$0.00	\$7,500.00	\$87,865.12	\$0.00	\$95,365.12	\$410,740.88
Travel-In State Mileage:	\$17,946.00	\$41.54	\$406.94	\$2,569.76	\$3,281.52	\$0.00	\$6,299.76	\$11,646.24
Travel-Out of State:	\$28,082.60	\$588.30	\$6,521.94	\$376.60	\$2,891.67	\$0.00	\$10,378.51	\$17,704.09
Equipment:	\$16,000.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00
Encumbrances:	\$0.00	\$0.00	\$0.00	\$0.00	\$239,776.95	\$0.00	\$239,776.95	(\$239,776.95)
Indirect Costs: 25%	\$558,892.00	\$7,583.29	\$49,064.70	\$77,746.15	\$90,828.08	\$0.00	\$225,222.21	\$333,669.79
TOTAL	\$ 3,199,997.50	\$ 49,538.85	\$ 300,792.49	\$ 359,291.28	\$784,926.12	\$0.00	\$1,494,548.73	\$ 1,705,448.77

Figure 2. Expenditure Overview by Category in Dollars

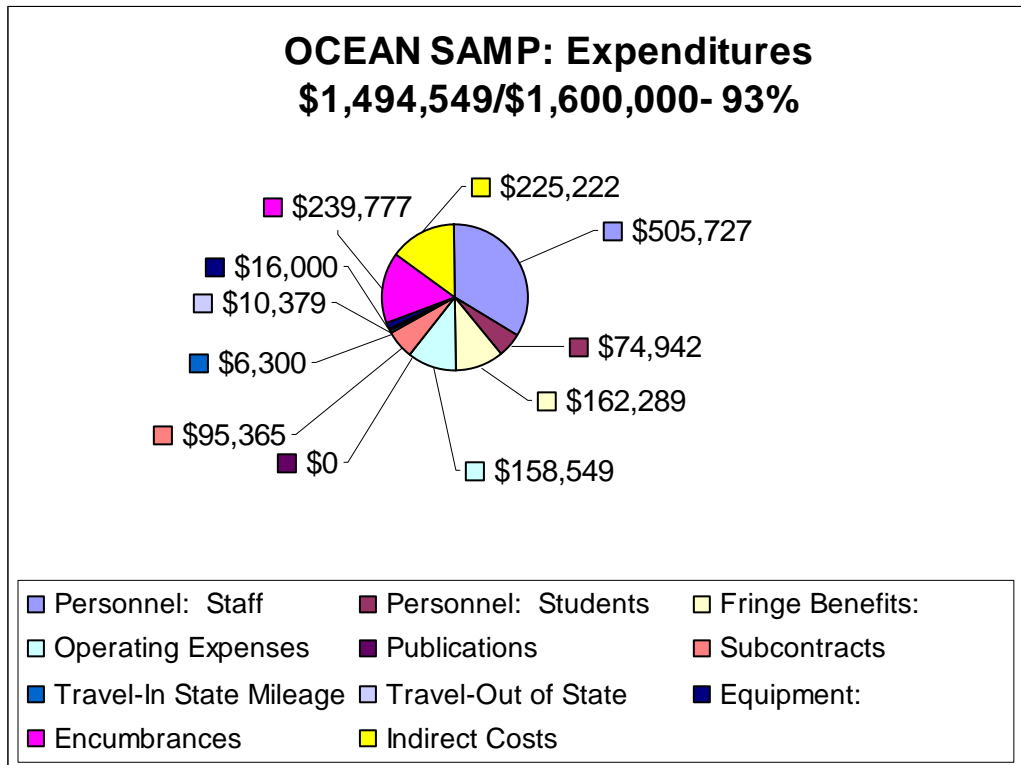


Figure 3. Expenditure Overview by Category in Percent

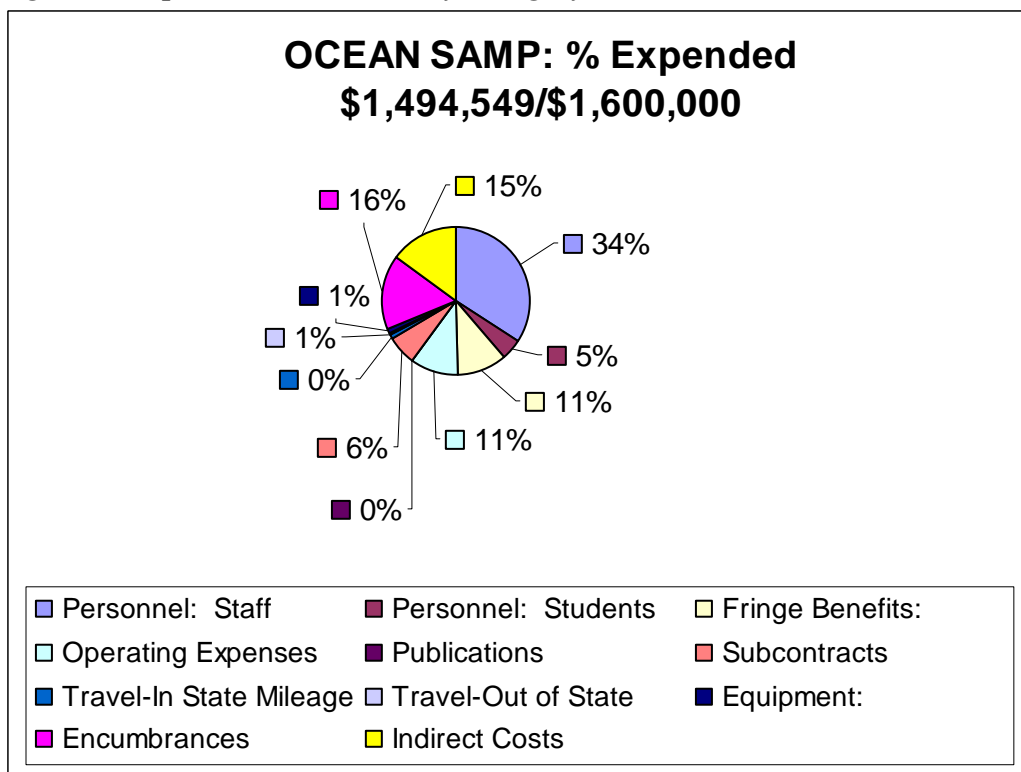
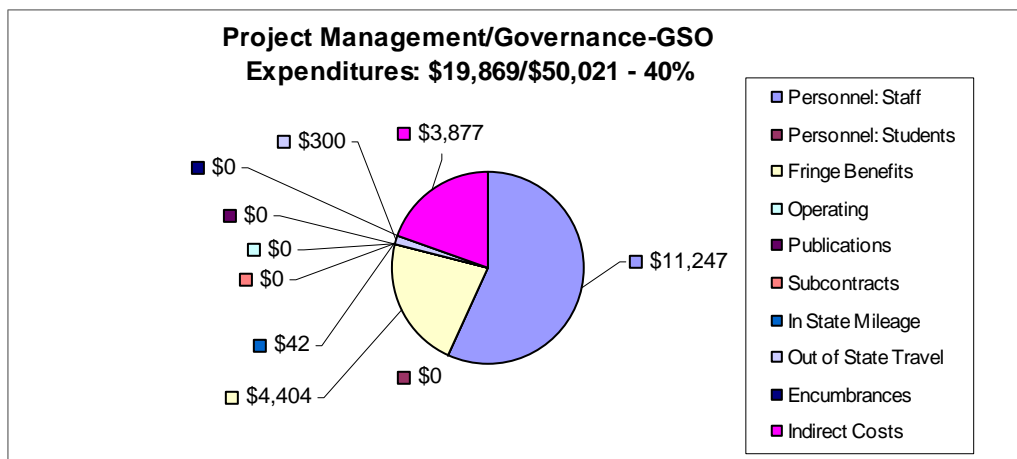
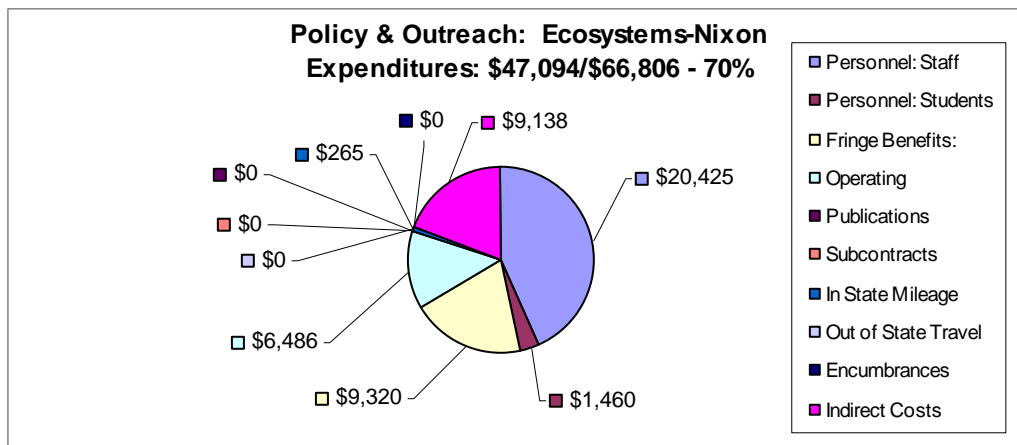
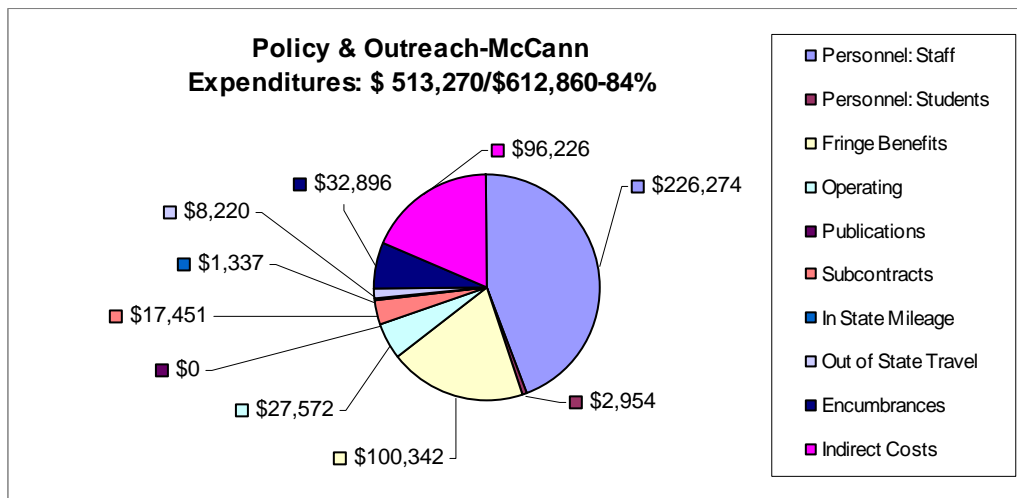
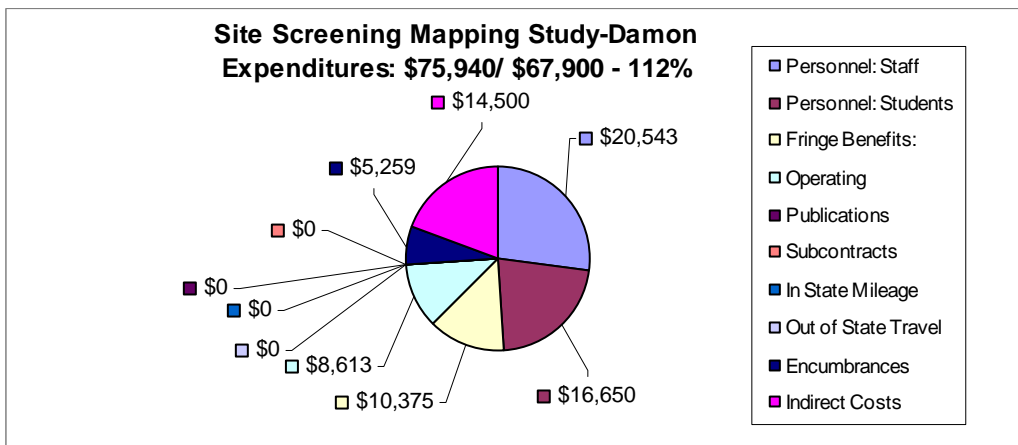
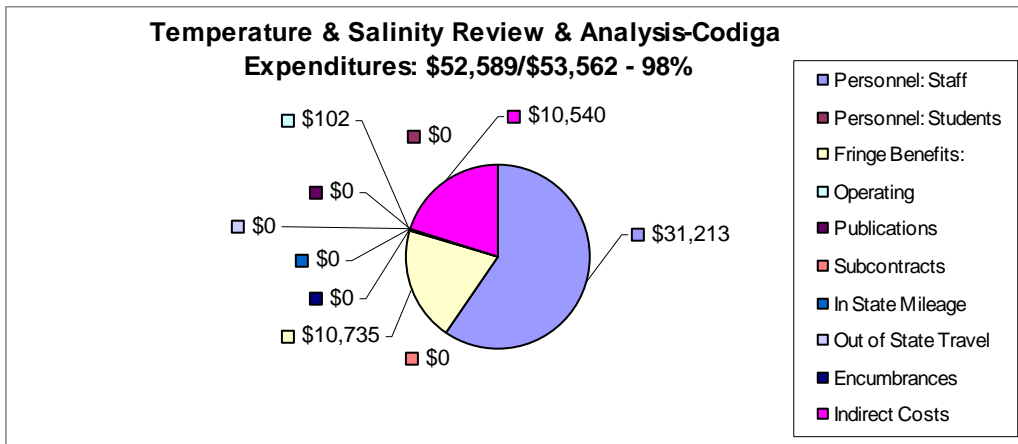
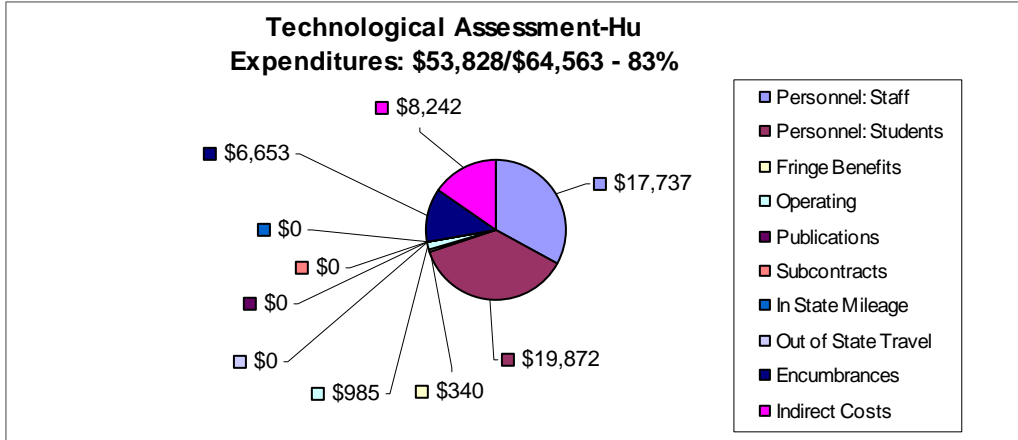


Figure 4. Summary of Project Expenditures- Year I

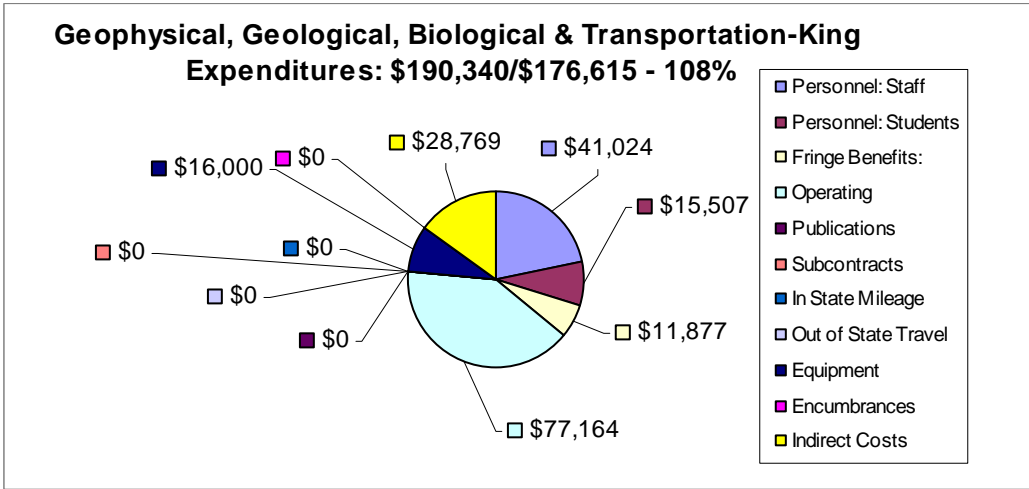
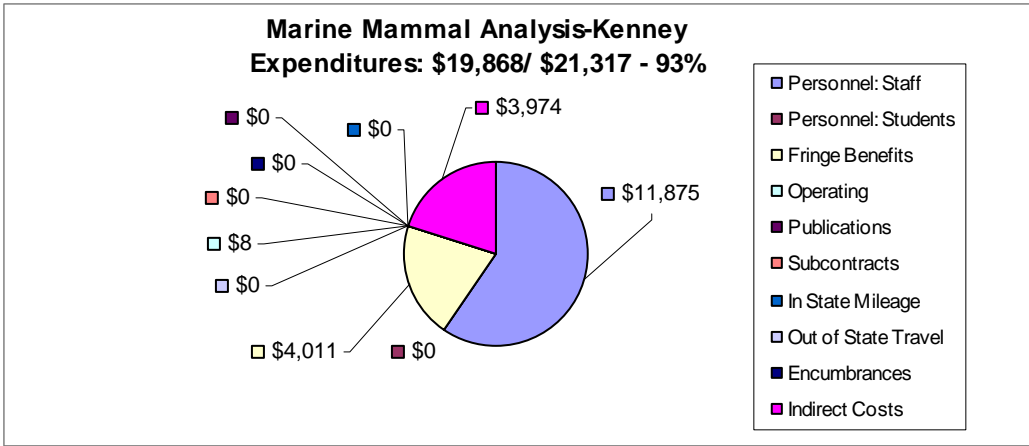
PERIODIC SUMMARY OF PROJECT EXPENDITURES								
June 30, 2009								
University of Rhode Island								
OCEAN OFFSHORE SPECIAL AREA MANAGEMENT PLAN (SAMP)								
Summary of Project Expenditures: June 30, 2009	Period	Period I	Period II	Period III	Period IV	Period V		
PERIOD SUMMARY	Period covered:	8/01/08-09/30/08	10/01/08-12/31/09	1/1/09-3/31/09	4/01/09-6/30/09	7/1/09-7/31/09		
CRC/GSO to CRMC	Date Due:	Nov 1st	Feb 1st	May 1st	Aug 1st	Sept 1st		
CRMC to RIEDC	Date Due:	Nov 15th	Feb 15th	May 15th	Aug 15th	Sept 15th		
Account Expenses	Budget	Expenses	Expenses	Expenses	Expenses	Expenses	Total Expenditures:	Fund Balance:
<b>1) Policy &amp; Outreach Strategy-McCann</b>								
<i>Total Project Expenditures</i>	\$ 1,361,623.50	\$ 1,693.44	\$ 97,428.45	\$ 166,544.82	\$ 247,603.48	\$ 0.00	\$ 513,270.19	\$ 848,353.31
<b>2) Project Management/Governance-GSO-DeBow</b>								
<i>Total Project Expenditures</i>	\$100,043.00	\$51.93	\$375.00	\$5,857.56	\$13,584.58	\$0.00	\$19,869.07	\$80,173.93
<b>3) Tecnological Assessment- Hu</b>								
<i>Total Project Expenditures</i>	\$67,307.00	\$0.00	\$4,437.47	\$21,346.82	\$28,044.27	\$0.00	\$53,828.56	\$13,478.44
<b>4) Temperature &amp; Salinity Review &amp; Analysis-Codiga</b>								
<i>Total Project Expenditures</i>	\$53,561.50	\$0.00	\$29,800.38	\$20,998.47	\$1,790.60	\$0.00	\$52,589.45	\$972.05
<b>5) Site Screening Mapping Study-Damon</b>								
<i>Total Project Expenditures</i>	\$135,800.00	\$2,364.09	\$8,792.53	\$28,502.17	\$36,281.67	\$0.00	\$75,940.45	\$59,859.55
<b>6) Marine Mammal Analysis-Kenney</b>								
<i>Total Project Expenditures</i>	\$21,316.50	\$928.80	\$8,794.31	\$8,107.35	\$2,037.08	\$0.00	\$19,867.54	\$1,448.96
<b>7) Geophysical, Geological, Biological &amp; Transportation Analysis- King</b>								
<i>Total Project Expenditures</i>	\$305,550.00	\$7,550.25	\$89,682.79	\$21,553.20	\$71,553.45	\$0.00	\$190,339.69	\$115,210.31
<b>8) Wind, Storm Occurance &amp; Precipitation Analysis-Merrill</b>								
<i>Total Project Expenditures</i>	\$6,769.00	\$3,119.21	\$677.75	\$2,018.41	\$0.00	\$0.00	\$5,815.37	\$953.63
<b>9) Acoustic Noise &amp; Electromagnetic Effects Analysis-Miller</b>								
<i>Total Project Expenditures</i>	\$121,250.00	\$88.29	\$13,333.17	\$5,725.21	\$43,249.43	\$0.00	\$62,396.10	\$58,853.90
<b>10) Avian Study-Paton</b>								
<i>Total Project Expenditures</i>	\$654,748.00	\$0.00	\$10,805.89	\$40,774.96	\$267,636.88	\$0.00	\$319,217.73	\$335,530.27
<b>11) Wind Source, Wave and Storm Surge Characterization &amp; Site Analysis-Spaulding</b>								
<i>Total Project Expenditures</i>	\$231,397.00	\$33,726.68	\$20,251.48	\$16,175.12	\$64,167.09	\$0.00	\$134,320.37	\$97,076.63
<b>12) Policy &amp; Outreach Strategy: Ecosytems-Nixon</b>								
<i>Total Project Expenditures</i>	\$140,632.00	\$16.16	\$16,413.27	\$21,687.18	\$8,977.59	\$0.00	\$47,094.20	\$93,537.80
<b>COMBINED GRAND TOTAL-All Projects</b>	\$ 3,199,997.50	\$ 49,538.85	\$ 300,792.49	\$ 359,291.28	\$ 784,926.12	\$ -	\$1,494,548.73	\$ 1,705,448.77

**Figure 5. URI Subaward Cumulative Expenditures by Category**

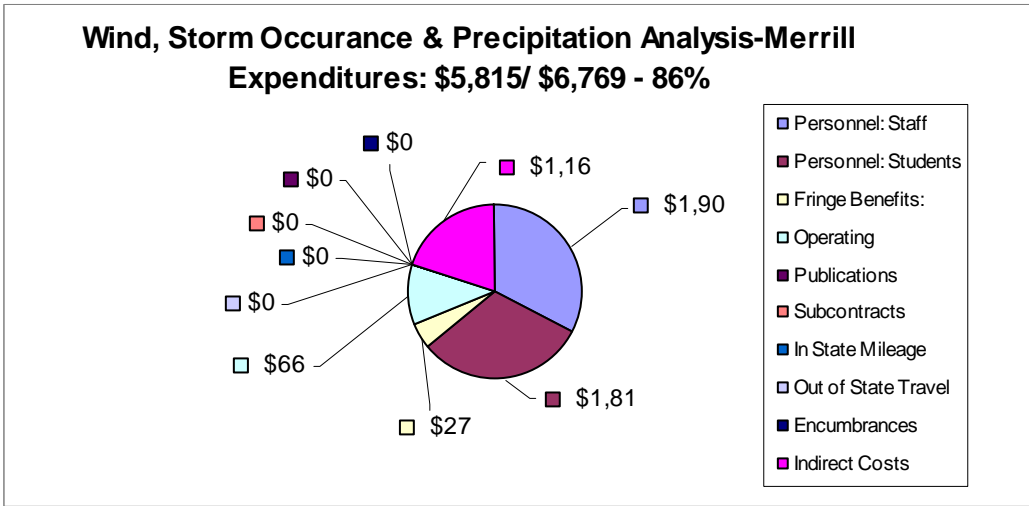


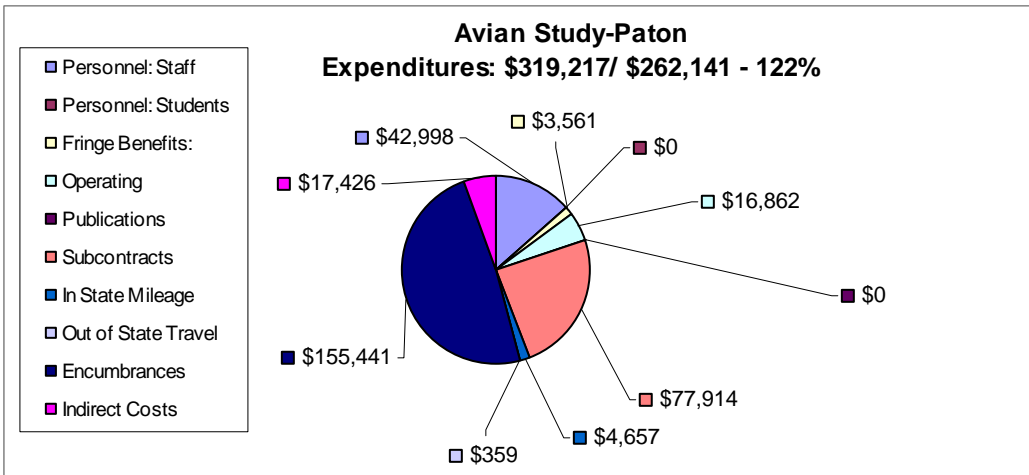
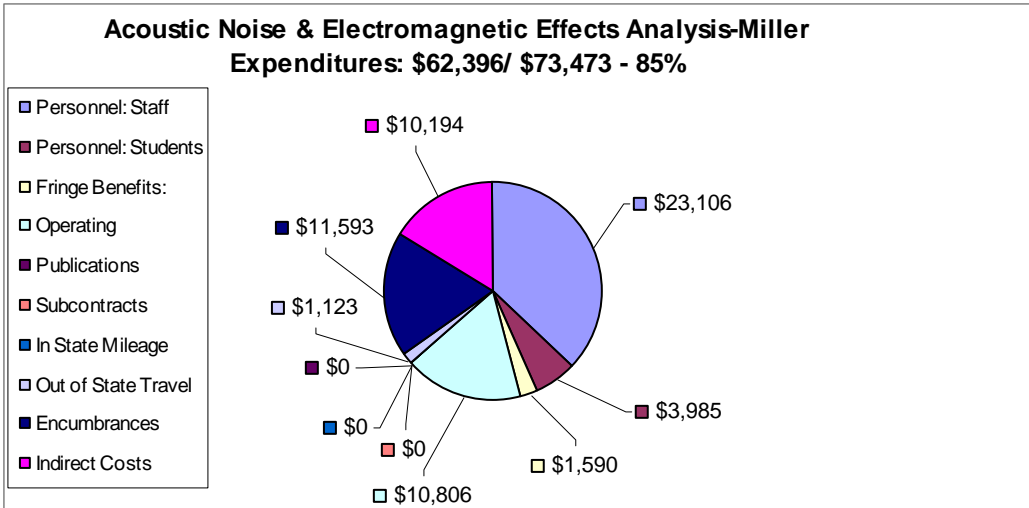


\*Spending for additional project activities occurred where percentages are in excess 100% by utilizing approved Year II funding.



\*Spending for additional project activities occurred where percentages are in excess 100% by utilizing approved Year II funding.





\*Spending for additional project activities occurred where percentages are in excess 100% by utilizing approved Year II funding.

