COASTAL RESOURCES MANAGEMENT COUNCIL

Oliver H. Stedman Government Center 4808 Tower Hill Road, Suite 3 Wakefield, R.I. 02879-1900

(401) 783-3370 FAX: (401) 783-3767

May 15, 2009

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

Dear Director Saul:

The Rhode Island Coastal Resources Management Council (CRMC) and the University of Rhode Island (URI) are pleased to provide you and the Corporation with the third period progress report regarding The Ocean Special Area Management Plan (SAMP). We will also be e-mailing you this report in electronic version 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,

Grover Fugate

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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

Third Period Narrative and Financial Report (January 1, 2009 – March 31, 2009)

RHODE ISLAND RENEWABLE ENERGY DEVELOPMENT FUND SPECIAL AREA MANAGEMENT PLAN

Third Period Narrative and Financial Report (January 1, 2009 – March 31, 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:

Third Period (January 1, 2009 – March 31, 2009) Narrative and Financial Report for the Rhode Island Renewable Energy Development Fund/Ocean Special Area Management Plan

Submitted by:

Grover Fugate, Executive Director, Rhode Island Coastal Resources Management Council, Stedman Government Center - Suite 3, 4808 Tower Hill Road, Wakefield, RI 02879.

Tel: 401-783-3370, Fax: 401-783-3767. Email: GFugate@crmc.ri.gov

Jennifer McCann, Principal Investigator, URI Coastal Resources Center and Rhode Island Sea Grant, Narragansett Bay Campus, Narragansett, RI 02882.

Tel: 401-874-6127, Fax: 401-874-6920. Email: mccann@crc.uri.edu

Sam De Bow, Principal Investigator, URI Graduate School of Oceanography, Narragansett Bay Campus, Narragansett, RI 02882.

Tel: 401-874-6165, Fax: 401-874-6889. Email: sam.debow@gso.uri.edu

Senior Advisors:

Dr. Kathryn Moran, URI Graduate School of Oceanography (GSO)

Dr. Malcolm Spaulding, URI Department of Ocean Engineering

Institutional Representative:

Franca Cirelli, Authorized Organizational Agent, Assistant Director of Sponsored Projects Review, University of Rhode Island, 70 Lower College Road, Kingston, RI 02881.

Tel: 401-874-5891, Fax: 401-874-4272. Email: franca@uri.edu

Point of Contact:

Grover Fugate, Executive Director, Rhode Island Coastal Resources Management Council Stedman Government Center - Suite 3, 4808 Tower Hill Road, Wakefield, RI 02879.

Tel: 401-783-3370, Fax: 401-783-3767. Email: GFugate@crmc.ri.gov

THIRD PERIOD OCEAN SAMP EXECUTIVE SUMMARY

During the third period, the Ocean SAMP program continues to make significant accomplishments in data gathering, meeting with both federal and state agencies, and creating opportunities for engaging stakeholders.

Several meetings were held with major federal agencies including U.S. Minerals Management Service (MMS), U.S. Army Corps of Engineers, U.S Federal Energy Commission, U.S. Coast Guard, National Oceanic and Atmospheric Administration to better understand the federal requirements and jurisdictions as well as clarify coordination mechanisms amongst these agencies. The Ocean SAMP project team was also able to communicate the Ocean SAMP effort to these federal agencies.

The Ocean SAMP team has worked with both the commercial and recreational fishing community to document the use of fishermen in the Ocean SAMP study area as well as identify issues/concerns and opportunities this group of stakeholders has concerning the Ocean SAMP. This information was presented at the March 19th stakeholder meeting and is available at the Ocean SAMP web site.

Dr. Malcolm Spaulding presented the Ocean SAMP preliminary Screening Analysis to the Ocean SAMP stakeholder group to provide them an overview of the data layers that have been collected for the Ocean SAMP.

The Science Advisory Task Force, chaired by Dr. Scott Nixon and Dr. Carlton Hunt, met twice to define their role as well as gain an orientation to the Ocean SAMP project.

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 Three

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/O bj.	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	 Meetings with DEM (01/30, 02/13) and statewide planning (01/30) Meetings with Massachusetts Coastal Zone Program (02/4 and 03/25) Meeting with Massachusetts Ocean Partnership (02/25) 	25% Complete
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	 Meetings with MMS and ACOE (01/29, 02/11); ACOE and NOAA (02/12); FERC (02/03) 	25% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete				
_	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	Completed Sept 08, but being revised appropriately	100% Complete				
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	Completed Oct. 08	100% 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.	Mar-09	Met with Recreational fishermen (02/25); and Recreational and Commercial Fishermen (03/03) to review fisheries usage maps and continue to issues	50% Complete				

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
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	Mar-09	Identifying recreational users and continue to initiate contacts	10% Complete
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.	Mar-09	Preparation of final report initiated	60% Complete
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.	Jul-09	Existing military uses identified on public charts are mapped	50% Complete
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.	Jul-09	Majority of infrastructure identified and mapped	75% Complete

Goal/O bj.	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.	Jul-09	Dredged materials sites identified and mapped	100% Complete
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.	Jul-09	Meetings with aesthetics experts underway to better understand the issues and concerns	15% Complete
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.	Jul-09	 Data analysis of acoustic data in progress Air acoustic data collection plan drafted 	10% Complete
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.	Jul-09		0% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G1.02	Marine Archeology	Work with Mather 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	Assess the potential for submerged historic and prehistoric archaeological sites within SAMP areas with first existing data and then newly acquired geophysical survey data.	60% 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.	Jul-09		0% Complete
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.	Jul-09		0% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete				
_	Objective 3 : 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	100% Complete				
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.	Jul-09	Meeting with Center for C. Studies to understand marine mammal/sea turtle research. Data collection fully completed. Test alternatives for kriging and interpolation of SPUE predictive models	50% Complete				
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.	Jul-09	Meeting with Center for C. Studies to understand marine mammal/sea turtle research. Data collection fully completed. Test alternatives for kriging and interpolation of SPUE predictive models.	50% Complete				

Goal/O bj.	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 fed and local sources. Designed offshore systematic transect surveys, established offshore boat-based survey, designed and initiated offshore point counts on fishing boats. Initiated offshore transect surveys off Block Island. Initiated systematic surveys on BI ferry. Initiated radar collection.	40% Complete
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.	Jul-09	Fisheries usage maps mapped and shared with fishermen for review. Maps and issues and opportunities presented at Stakeholder group meeting (March 19th). Writing of technical report underway.	25% Complete
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	• Analyze and interpret subbottom sonar data. Construct a GIS data laer of subbottom geology, including depth to bedrock and trype of subsurfact materials. Analyze benthic grab samples. Prepare a bilogical habitat GIS data layer needed for SAMP.	60% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
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	Catalogue observations by type (currents/ hydorgraphy) and sampling characteristics. Estimate annual/seasonal mean currents and tidal current characteristics and deliver GIS maps info to SAMP team.	
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	 Installed recording light meter at Block Island Airport. Standard operating procedures with Fishermen established for collection, storage and transport of surface water samples As laboratory analysis of chlorophyll and nutrient samples is completed, data made available to Kim Hyde (NMFS) 	25% Complete
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	Comparative analysis finished. Draft final report 95% complete, tracking down data from Cape Wind.	75% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
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.	60% Complete

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

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	Completed comprehensive review of Land Use 2025, State Energy Plan (2002), legal structure for fisheries management, economic development plans	40% 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.	Feb-09	Research Counsel and assistants continue to implement research projects. Brian Goldman is overseeing this work	25% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
enewa earne	able energy that d from other init	actices and strategies for overcor t can be transferred to the Ocean iatives in the United States and w e so that this model effort can be	SAMP initiativo orldwide. Eva	e based c luate wha	on a comparative asses at works and what does	ssment of lessons
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 .	May-09	Assessment in draft form and being worked on by Ocean SAMP team.	25% 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
	Engage a well info	ormed and well represented constituen MP.	cy that understan	ds the Oce	an SAMP issues and is inv	volved in the
Objecti	ve 1: Develop a fo	rmal process to ensure that all stakeho	olders and citizens	s have an c	opportunity to engage in the	e 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 1/06 (geology), 2/05 (screening analysis), and 3/19 (fisheries). Approx. 80 - 130 participants at each event.	25% Complete

Goal/O bj.	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	Ocean SAMP subcommittee meetings took place on 01/07 and 2/03	25% Complete
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	Meetings on 02/24(orientation) ,03/17 (Mass presentation and goals and principles review).	25% Complete
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	Task force is overseeing all legal research. Goldman attended the ACOE 2/12 meeting in Concord, MA. Goldman has also met with task force members to determine specific role of group.	25% Complete
G3.01	Special meetings with key stakeholders	Meet with key RI leaders to explain the SAMP process and input	Meetings	Ongoing	• Meetings with Wickford Yacht Club (01/15), Newport Rotary Club (01/27), Atlantic Beach Club (01/29), TNC (02/04), RI Wind Alliance (03/23), National Grid (03/24)	25% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G3.01	MOU signing	State & Federal leaders to convene and formally kick off the SAMP effort.	Public Event	Sep-08	Completed	100% Complete

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.

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, oceanatmosphere interactions, and the geological landscape of the area. Both observational and model results will be	Proceedings	Oct-08	Executive Summary in draft form and will be ready for internal review in May. Full proceedings are in process expected completion date is June.	75% Complete
G3.02	Roger Williams University Marine Law Symposium	included. 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	Oct-08	Proceedings being developed	75% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G3.02	RINHS monthly events			Ongoing	Final event on "Considerations for Marine Fisheries Habitat and Wind Power Development took place on 2/5/09.	100% Complete
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	Agenda is completed, key notes secured, people are registering	75% Complete
G3.02	Newspaper series	That introduces key SAMP issues and describes SAMP progress		Ongoing	Ocean SAMP articles	25% Complete
G3.02	Develop articles on SAMP for 41 north			Apr-09	Began to discuss issues	10% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
Object	ive 3: Develop con	nmunication tools that will provide up-to	date information	for all inter	ested citizens and interest	groups.
G3.03	Develop project web site, phone, e-mail			Jul-08	More than 4750 hits to web site	100% Complete
G3.03	Develop project fact sheet			Aug-08	Completed and being distributed	100% Complete
G3.03	Establish external listserve/mailing list			Aug-08	 More than 369 members with 30 users requesting signup during this time period. 	100% Complete
G3.03	Create a ferry display			Apr-09	 Working with the Ocean Foundation to develop a short video for the Block Island ferry 	10% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
and cor and the environ Object	nsistency among R U.S. Federal Ener mentalists within th	for Rhode Island's Coastal waters that hode Island state agencies (CRMC, Orgy Regulatory Commission), neighborn is project area.	ER, DEM), federa ing states (MA, C	I agencies T) and othe	(U.S. Department of Energer public entities, develope	gy, ACOE, MMS, rs, and
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	In process based on information listed above.	60% Complete
Object	ive 2: Develop new	policies and procedures for renewable	e energy activities			
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		0% Complete

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete					
Object	Objective 3: Develop the SAMP document as described in the Ocean SAMP outline										
G4.03	Develop the executive summary	Summarize the SAMP document	Section 100	June 2010 June 2009		0% Complete					
G4.03	Develop the introduction	Describe the intent and purpose, project boundary, and how the SAMP will be used	Section 200		Draft being reviewed by Ocean SAMP team.	25% Complete					
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		0% Complete					

Goal/O bj.	Task	Activity	Outcome	End Date	Progress this quarter	Percentage Complete
G4.03	Summarize existing policies	Discuss CRMC's policies/procedures, etc.	Section 400	Nov-10		0% Complete
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		0% 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		0% Complete
G4.03	Submit draft SAMP to CRMC formal process		Section 500	Jul-10		0% Complete

Financial Activities

Overview

The total expenditures for period three are \$526,306. Expenditures by period are presented below in *Figure 1. Periodic & Cumulative Total All Projects*. An illustrative overview of spending is provided in *Figure 2. Expenditure Overview by Category in Dollars and Figure 3. Expenditure Overview by Category in Percent*. Funding for the work performed by ENDEAVOR on the Ocean SAMP this fall came directly from the RI Endeavor Program (http://www.gso.uri.edu/riep/p_description.html). Nominally, it was approximately a \$200,000 inkind contribution.

Subawards

Each Ocean SAMP sub-award has been assigned an individual University of Rhode Island account. A summary of expenditures by subward is provided in *Figure 4. Summary of Project Expenditures Year 1.* Illustrative charts of each subwards expenses by category are offered in *Figure 5. URI Subward Cumulative Expenditures by Category.*

Figure 1. Periodic & Cumulative Total All Projects

			•	PERIODIC SUMM.	ARY OF PROJECT	EXPENDITURES							
March 31, 2009													
University of Rhode Island													
			OCEAN	OFFSHORE SPEC	TAL AREA MANAG	GEMENT PLAN (S	AMP)						
Summary of Project Expenditures: YEAR I	Perlod	Period I	Period II	Period III	Period IV	Period V	2				CLOSE C	UT	REG.
OCEAN SAMP-PERIODIC EXPENDITURE REPORT	3/31/2009												
CUMULATIVE TOTALS-All Projects	BUDGET	PERIOD I	PERIOD II	PERIOD III	PERIOD IV	PERIOD V	Total Expenditures:	Fund Balance:	X	Budget	(not reported to date)	Total Expenditures	Fund Balance
Personnel: Staff	\$589,357.00	\$21,114.28	\$116,852.57	\$166,188.99	\$0.00	\$0.00	\$304,155.84	\$285,201.16	35%	\$589,357.00	\$0.00	\$304,155.84	\$285,201.16
Personnel: Students	\$77,011.00	\$5,469-50	\$10,150-34	\$27,544-94	\$0.00	\$0.00	\$43,164.78	\$33,846.22	5%	\$77,011.00	\$0.00	\$43,164.78	\$33,846.22
Fringe Benefits:	\$218,592.00	\$2,121.60	\$41,949-43	\$60,829.39	\$0.00	\$0.00	\$104,900.42	\$113,691.58	12%	\$218,592.00	\$0.00	\$104,900.42	\$113,691.58
Operating Expenses:	\$152,596.00	\$6,496.34	\$59,846.57	\$16,535.44	\$0.00	\$0.00	\$82,878.35	\$69,717.65	9%	\$152,596.00	\$0.00	\$82,878.35	\$69,717.65
Publications:	\$34,259.00	\$6,124.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,124-00	\$28,135.00	1%	\$34,259.00	\$0.00	\$6,124.00	\$28,135.00
Subcontracts:	\$202,127.00	\$0.00	\$0.00	\$7,500.00	\$0.00	\$0.00	\$7,500.00	\$194,627.00	1%	\$202,127.00	\$0.00	\$7,500.00	\$194,627.00
Travel-In State Mileage:	\$4,385.00	\$41-54	\$406.94	\$2,569.76	\$0.00	\$0.00	\$3,018.24	\$1,366.76	0%	\$4,385.00	\$0.00	\$3,018.24	\$1,366.76
Travel-Out of State:	\$17,685.00	\$588.30	\$6,521.94	\$376.60	\$0.00	\$0.00	\$7,486.84	\$10,198.16	1%	\$17,685.00	\$0.00	\$7,486.84	\$10,198.16
Equipment:	\$16,000.00	\$0.00	\$16,000.00	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	2%	\$16,000.00	\$0.00	\$16,000.00	\$0.00
Encumbrances:	\$0.00	\$0.00	\$0.00	\$167,014.70	\$0.00	\$0.00	\$167,014.70	(\$167,014.70)	0%	\$0.00	\$0.00	\$167,014.70	(\$167,014.70)
Indirect Costs: 25%	\$287,984.00	\$7,583.29	\$49,064.70	\$77,746.15	\$0.00	\$0.00	\$134,394.14	\$153,589.87	15%	\$287,984.00	\$0.00	\$134,394.14	\$153,589.87
Total OCEAN SAMP Project Expenditures	\$ 1,599,996.00	\$ 49,538.85	\$ 300,792.49	\$ 526,305.98	\$0.00	\$0.00	\$876,637.31	\$ 723,358.69		\$1,599,996.00	\$0.00	\$876,637.31	\$723,358.69

Figure 2. Expenditure Overview by Category in Dollars

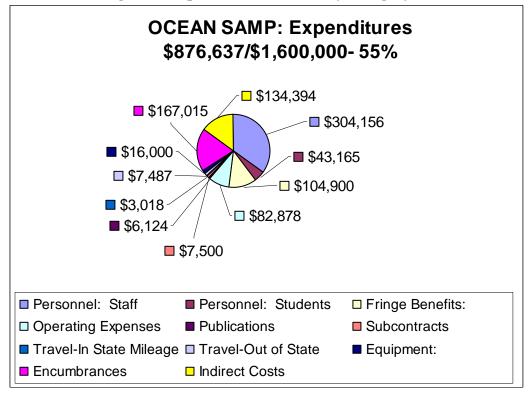


Figure 3. Expenditure Overview by Category in Percent

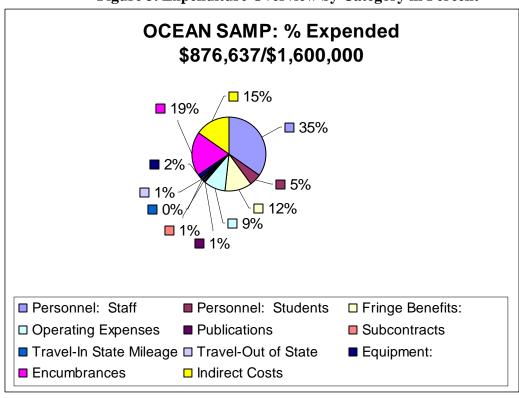
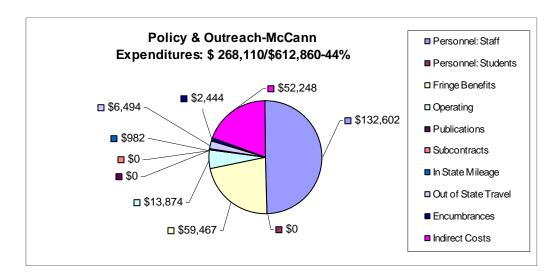
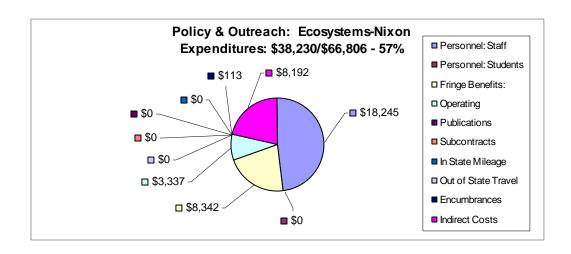


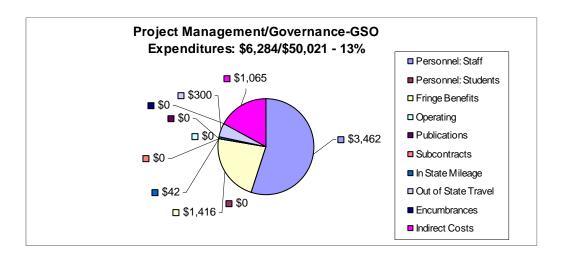
Figure 4. Summary of Project Expenditures - Year I

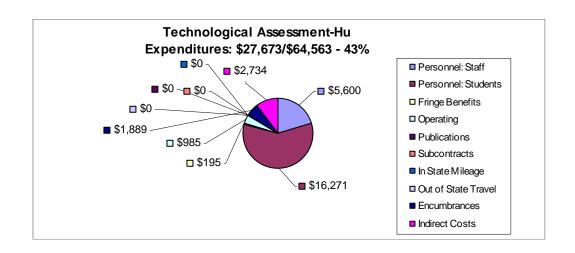
Figure 4. Summary of Project Expenditures - Year I	gure 4. Summary of Project Expenditures - Year I												
					ARY OF PROJECT	EXPENDITURES							
					March 31, 2009								
	University of Rhode Island												
	OCEAN OFFSHORE SPECIAL AREA MANAGEMENT PLAN (SAMP)												
Summary of Project Expenditures: YEAR I	Period	Period I	Period II	Period III	Period IV	Period V					CLOSE C	DUT	
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				PI's to CRC/GSO			10/15/2009
CRC/GSO to CRMC	Date Due:	Nov 1st	Feb 1st	May 1st	Aug 1st	Sept 1st				CRC/GSO to CRMC			11/1/2009
CRMC to RIEDC	Date Due:	Nov 15th	Feb 15th	May 15th	Aug 15th	Sept 15th	T			CRMC to RIEDC	17		11/15/2009
A # F	5 4	.	F	F	F		Total	F - 1 D-1	%	2 1	(not reported to	Total	
Account Expenses	Budget	<u>Expenses</u>	Expenses	Expenses	Expenses	Expenses	Expenditures:	Fund Balance:	76	Budget	date)	Expenditures	Fund Balance
1) Policy & Outreach Strategy-McCann													
Total Project Expenditures	\$ 612,859.50	\$ 1,693.44	\$ 97,428.45	\$ 168,988.42	\$0.00	\$0.00	\$268,110.31	\$ 344,749.19	44%	\$612,859.50	\$0.00	\$268,110.31	\$344,749.19
-) Paris + Management/Communication	ı	1			1	1	1	1					
2) Project Management/Governance-GSO													
Total Project Expenditures	\$50,021.00	\$51.93	\$375.00	\$5,857.56	\$0.00	\$0.00	\$6,284.49	\$ 43,736.51	13%	\$50,021.00	\$0.00	\$6,284.49	\$43,736.51
N= 1 4 14 40	ı	1			1	1	1	1			 		ļ
3) Tecnological Assessment- Hu													
Total Project Expenditures	\$64,563.00	\$0.00	\$4,437.47	\$23,235.71	\$0.00	\$0.00	\$27,673.18	\$ 36,889.82	43%	\$64,563.00	\$0.00	\$27,673.18	\$36,889.82
\	1	1	1		1	1		1					
4) Temperature & Salinity Review & Analysis-Codiga													
Total Project Expenditures	\$53,561.50	\$0.00	\$29,800.38	\$20,998.47	\$0.00	\$0.00	\$50,798.85	\$ 2,762.65	95%	\$ 53,561.50	\$0.00	\$50,798.85	\$2,762.65
					•								
5) Sight Screening Mapping Study-Damon													
Total Project Expenditures	\$67,900.00	\$2,364.09	\$8,792.53	\$30,327.73	\$0.00	\$0.00	\$41,484.34	\$26,415.66	61%	\$ 67,900.00	\$ -	\$ 41,484.34	\$ 26,415.66
6) Marine Mammel Analysis-Kenney													
Total Project Expenditures	\$21,316.50	\$928.80	\$8,794.31	\$8,107.35	\$0.00	\$0.00	\$17,830.46	\$3,486.04	84%	\$21,316.50	\$0.00	\$17,830.46	\$3,486.04
7) Geophysical, Geological, Biological & Transportation													
Analysis- King													
Total Project Expenditures	\$176,615.00	\$7,550.25	\$89,682.79	\$23,757.30	\$0.00	\$0.00	\$120,990.34	\$55,624.66	69%	\$176,615.00	\$0.00	\$120,990.34	\$55,624.66
	•												
8) Wind, Storm Occurance & Precipitation Analysis-													
Merrill													
Total Project Expenditures	\$6,769.00	\$3,119.21	\$677.75	\$2,018.41	\$0.00	\$0.00	\$5,815.37	\$953.63	86%	\$6,769.00	\$0.00	\$5,815.37	\$953.63
9) Acoustic Noise & Electromagnetic Effects Analysis-													
Miller				<u> </u>	<u> </u>		<u> </u>				<u> </u>		<u> </u>
Total Project Expenditures	\$73,473.00	\$88.29	\$13,333.17	\$8,836.44	\$0.00	\$0.00	\$22,257.90	\$51,215.10	30%	\$73,473.00	\$0.00	\$22,257.90	\$51,215.10
10) Avian Study-Paton													
Total Project Expenditures	\$262,141.00	\$0.00	\$10,805.89	\$196,203.28	\$0.00	\$0.00	\$207,009.17	\$55,131.83	79%	\$262,141.00	\$0.00	\$207,009.17	\$55,131.83
	1	1	1		1	1		ı					
11) Wind Source, Wave and Storm Surge							1						
Characterization & Sight Analysis-Spaulding													
Total Project Expenditures	\$143,970.50	\$33,726.68	\$20,251.48	\$16,175.12	\$0.00	\$0.00	\$70,153.28	\$73,817.22	49%	\$143,970.50	\$0.00	\$70,153.28	\$73,817.22
	1	1	1		1	1		1					
12) Policy & Outreach Strategy: Ecosytems-Nixon							1						
Total Project Expenditures	\$ 66,806.00	\$16.16	\$16,413.27	\$21,800.18	\$0.00	\$0.00	\$38,229.61	\$ 28,576.39	57%	\$ 66,806.00	\$0.00	\$38,229.61	\$28,576.39
			. ,, ,,	, ,			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,		,		.,,,,,	. ,,,
COMBINED GRAND TOTAL-All Projects	\$ 1,599,996.00	\$ 49,538.85	¢ 200.702.40	\$ 526,305.98	ė	ė	\$876,637.31	\$ 723,358.69	55%	\$ 1,599,996.00	\$0.00	\$ 876,637.31	\$723,358.69
COMBINED GRAIND TO TAL AIT FTO JECTS	7,599,990.00	7 49,530.05	\$ 300,792.49	3 520,505.90	,	*	30/0,03/.31	723,350.09	55%	3 1,599,996.00	\$0.00	3 0/0,05/.31	3/25,550.09

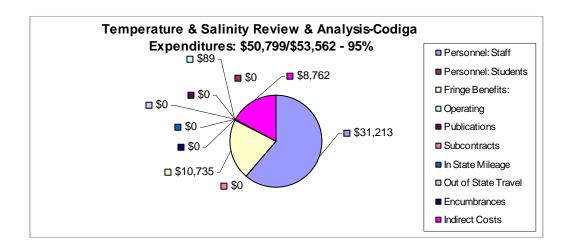
Figure 5. URI Subaward Cumulative Expenditures by Category

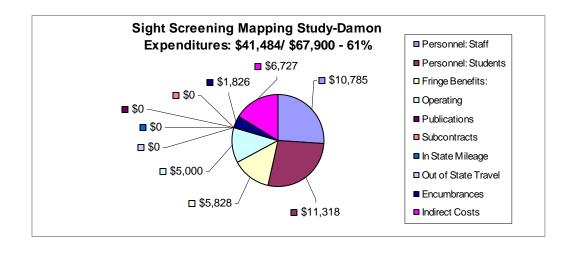


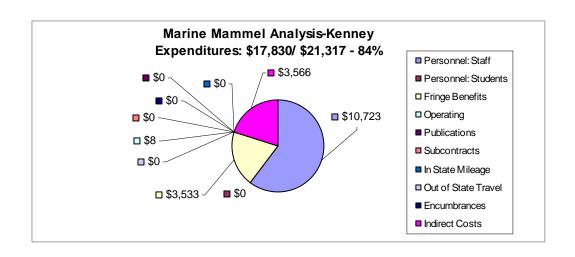


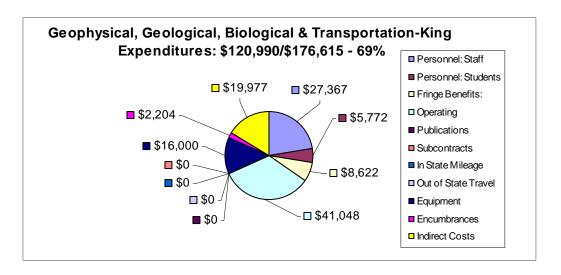


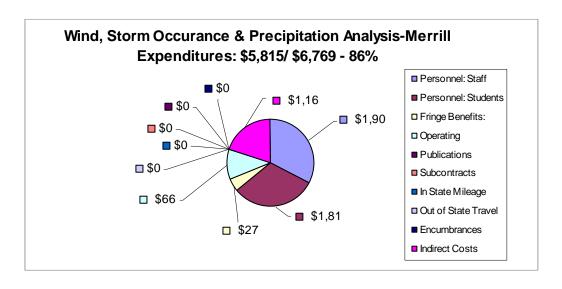


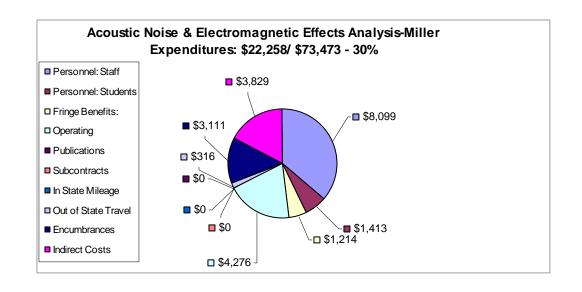


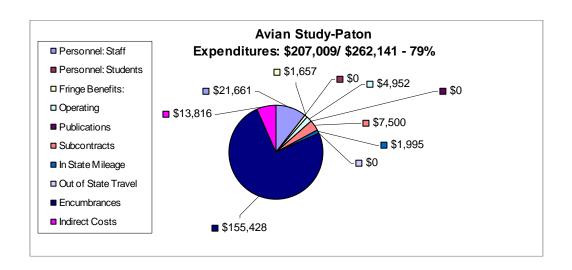


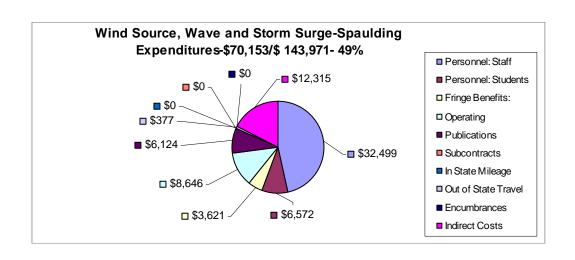












Acronyms

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

Ocean SAMP Meetings - Attachment A

Date	Agency	Purpose
January 6, 2009	Stakeholder Group Meeting	Convene a committee that represents key community and civic organizations in the state. Dr. John King and Jon Boothroyd presented The Ocean Floor: What is it, what's in it, and why is it important for human and natural activities.
January 7, 2009	Ocean SAMP Subcommittee	Ensure that CRMC members are informed of progress and opportunities for input.
January 15, 2009	Wickford Yacht Club	Public presentation
January 27, 2009	Newport Rotary Club	Public presentation
January 29, 2009	Meetings with Minerals Management Service and Army Corps of Engineers	Engage and coordinate with Federal agencies
January 29, 2009	Atlantic Beach Club	Public presentation
January 30, 2009	Department of Environmental Management	Encourage coordination beteen state agencies
January 30, 2009	RI Statewide Planning	Engage state agencies in the Ocean SAMP process to ensure that state policies are coordinated
February 3, 2009	Meeting with FERC	Engage and coordinate with Federal agencies
February 3, 2009	Stakeholder Group Meeting	Convene a committee that represents key community and civic organizations in the state. Presentation by Malcolm Spaulding: Preliminary Screening Analysis for Ocean SAMP
February 3, 2009	Ocean SAMP Subcommittee	Ensure that CRMC members are informed of progress and opportunities for input.
February 4, 2009	Massachusetts Coastal Zone Program	Engage state agencies in the Ocean SAMP process to ensure that state policies are coordinated
February 4, 2009	The Nature Conservancy	Coordinate data sharing
February 11, 2009	Meetings with Minerals Management Service and Army Corps of Engineers	Engage and coordinate with Federal agencies

Ocean SAMP Meetings - Attachment A

Date	Agency	Purpose
February 12, 2009	Army Corps of Engineers and NOAA	Engage and coordinate with Federal agencies
February 12, 2009	Legal Advisory Task Force	Task force is overseeing all legal research.
February 13, 2009	Department of Environmental Management	Encourage coordination beteen state agencies
February 24, 2009		Provide expertise and input specific to the science and research-based aspects of the Ocean SAMP effort. Orientation Meeting
February 25, 2009	Massachusetts Ocean Partnership	Engage state agencies in the Ocean SAMP process to ensure that state policies are coordinated
February 25, 2009	Recreational and Commercial Fishermen to review fisheries usage maps and continue to issues	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.
March 3, 2009	Recreational and Commercial Fishermen to review fisheries usage maps and continue to issues	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.
March 17, 2009	Science Advisory Task Force	Provide expertise and input specific to the science and research-based aspects of the Ocean SAMP effort. Mass presentation and goals and principles review
March 19, 2009	Stakeholder Group Meeting	Convene a committee that represents key community and civic organizations in the state. Dave Beutel presented the fishery usage maps.
March 23, 2009	RI Wind Alliance	Meeting to discuss Ocean SAMP
March 24, 2009	National Grid	Meet with Mike Ryan to discuss Ocean SAMP
March 25, 2009	Massachusetts Coastal Zone Program	Engage state agencies in the Ocean SAMP process to ensure that state policies are coordinated

Attachment B - Ocean SAMP Research Status January 1 – March 31, 2009

Status of Individual Research Efforts

I. Engineering Studies in support of the Ocean SAMP

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

Overall completion estimate: 80%

1. Wave, and storm surge characterization for RI coastal waters

- A. Comparative analysis finished
- B. Draft final report 95% complete, tracking down data from Cape Wind.

2. Marine transportation paths based on AIS data

A. Preparation of final report initiated

3. Revised wind farm site screening analysis

- A. Tier #1 screening analysis, including Technology Development Index(TDI), completed.
- B. Monte Carlo simulations performed to assess uncertainty, completed.
- C. Sensitivity of TDI to technology type completed.
- D. Paper on TDI and Principal Component Analysis(PCA) method and application to SAMP study area completed (in review).
- E. Literature search to develop data base to support TDI estimates of Technology Type finished.
- F. Screening analysis presented to Stakeholder Council, Feb 10, 2009
- G. Extended screening analysis to evaluate conflicts with recreational and commercial fisheries

II. 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: 50%

1. Performed a detailed literature review of monopile and jacket structures as they

are used in offshore wind farms. Particular focus has been on selected case

studies that are similar in terms of water depth and geology to the present study

area.

2. Acquired the 3-D finite element package ANSYS, which is to be used for both

static and dynamic analyses of the different structure/foundation systems. An

ANSYS finite element model for a monopile support structure has been built, and

an initial analysis of the monopile subjected to various wave conditions has been

carried out.

3. Developed cost model based on weight of structure

III. 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: 10%

1. Data analysis of acoustic data in progress. Air acoustic data collection plan

drafted

Characterizing Physical Oceanography of the Rhode Island Coastal Ocean IV.

Principal Investigator: Dan Codiga, URI Graduate School of Oceanography

2

Overall completion estimate: 45%

1. Task completion is behind planned timeline by 1-2 months.

V. Geospatial Data/Mapping Support for the RI Ocean SAMP

Principal Investigator: Christopher Damon, URI Natural Resource Science **Overall completion estimate: 30%**

- 1. Consolidate geospatial data and metadata
- 2. Task completion is behind planned timeline by 1-2 months.
- 3. Extended Tier 1 analysis complete. Criteria for a Phase 2 study are still being established.
- 4. Basic templates complete. May be revised as project proceeds.
- 5. Work with scientists developing screening criteria
- 6. Newest additions to the dbase: TDI with and without geologic influences; stochastic sampling results; Mobile, fixed and recreational fishing areas; preliminary fishing VTRs.
- 7. Tier 1 Extended complete. This work is ongoing as project proceeds.
- 8. Develop cartographic template
- 9. An additional 11" x 17" version was generated for easier review of certain data. Layouts were generated for the primary NOAA charts covering the study to ensure they plot out at the proper size and scale.

10. Prepare cartographic products in hardcopy/digital formats

11. 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.

VI. Marine Mammals and Sea Turtles Analysis

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

Overall completion estimate: 85%

Study Tasks:

1. We have slipped on projected completion schedule because of issues with

completing the mapping components, but only by a month. See below for details.

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. Map formats have been tested. All that remains is to crunch through the

final versions of all of the raw data maps for the report.

4. Initial trial runs demonstrated the inadvisability of trying to include the

unidentified sightings in the SPUE analysis by partitioning them into species

based on probability of occurrence. The result was creating obviously erroneous

occurrence predictions (e.g., offshore species in inshore areas). We went back to

using only identified sightings, and completed all of the final SPUE outputs to use

for input into the GIS modeling.

4

5. We worked through February on testing alternatives for kriging and interpolation

of the SPUE predictive models, and for presentation formats for the model

outputs in GIS maps.

6. The literature review is complete, although one always tends to keep finding new

sources during the writing process. The report is close to completion (see item 3

in the next section).

VII. Air quality and meteorology studies in support of ocean SAMP

Principal Investigator: John Merrill, Graduate School of Oceanography

Overall completion estimate: 60%

1. Gathered data and performed preliminary analysis.

VIII. 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: 35%

1. Mapped 90% of expanded area J to the west and south of Block Island. Total area

mapped 45 sq. miles.

IX. 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

5

Overall completion estimate: 40%

- Compiled data from USFWS, DEM, Kingston Wildlife Research Station, and URI
- 2. Designed offshore systematic transect surveys S and E of Block Island, established offshore boat-based survey on Block Island Ferry, designed and initiated offshore point counts on fishing boats, designed and had reviewed (Michael Amaral USFWS endangered species biologist; Jeff Spendelow -USGS) surveys protocols for Roseate Terns
- 3. Attended New Shoreham town council meeting, Obtained special temporary use permits from town for 6 month period. Obtained permission from ASRI, TNC, and local land owners to place radar at SW corner of Block Island from 18 March to mid-April and end of October to 15 Dec; from mid-April to end of October, radar will be on town land at N end of island
- 4. Have two full-time biologists on staff to conduct surveys, acquired optical equipment, Initiated land-based survey points at 11 points along 4 survey routes, each point will be surveyed 6 times monthly (3 morning and 3 afternoons)
- 5. Initiated offshore transect surveys S and E of Block Island using Francis Fleet boats conducted 2 of these surveys during this quarter. Initiated systematic surveys on Block Island ferry in early morning hours. Initiated point count surveys from Francis Fleet fishing boat.
- 6. Completed protocols for when and where radar data will be collected.
 Coordinated with Deepwater Wind, who also has an avian radar unit on Block
 Island, although that radar is focused on an area E of Block Island.

7. Initiated radar collection on 19 March 2009. Field tested site at N end of Block Island, placed radar unit in SW corner, where radar is running 24 hrs per day/7 days per week.

X. State Policy - Contextual Integration of the Ocean SAMP

Principal Investigator: Kenneth F. Payne, College of Environment and Life Sciences **Overall completion estimate:** 45%

1. State Land Use Policies and Plan

- A. Completed comprehensive review of Land Use 2025—found no conflicts between plan and matters being studied by Ocean SAMP, met with local planners and cognizant state officials, who agreed that an expanded role for the State Guide Plan to incorporate SAMP would not be necessary or optimal.
- B. Preparation of report initiated.

2. State Energy Plan.

- A. Completed comprehensive review of the State Energy Plan (2002)—
 found no support in that plan for off shore wind development but no
 barriers either--the plan predates current policy commitments to
 renewable energy development, thus could be sited as not supporting
 renewable energy development.
- B. Preparation of report initiated.

3. Fisheries Plans.

A. Completed review of legal structure for fisheries management, completed comprehensive review of plans pertaining to sustaining the fishing industry, including the Bays, Rivers and Watersheds Systems Level Plan: 2009-2013 (2008) the Commercial Fisheries Economic Adjustment Strategy (1995); reviewed various species management plans. Met with cognizant state official.

B. Initiated preparation of findings.

4. Economic Development Plans.

- A. Completed comprehensive review of economic development plans, including those of the State Planning Program, the RI Economic Development Corporation, and the RI Economic Policy Council. The RIEDC's Economic Growth Plan 2009, Rhode Island, Working Again (March 2009) specifically references both off-shore wind development and the potential to create "green sector" jobs. Met with cognizant state officials on "green sector" job creation and relationship of Ocean SAMP to economic development planning.
- B. Initiated preparation of findings.

5. Recreation Plans.

A. Commenced review of state recreation plans.