EVOSTC ANNUAL PROJECT REPORT

*All citations herein refer to the EVOSTC Procedures for the Preparation and Distribution of Reports ("Reporting Policy")

As required by the Reporting Policy, recipients of funds from the *Exxon Valdez* Oil Spill Trustee Council must submit a semi-annual project report in the following format by September 1 of each fiscal year for which project funding is received (with the exception of the final funding year in which a final report must be submitted). Please help ensure that continued support for your project will not be delayed by submitting your report by September 1.

Satisfactory review of this report is necessary for continuation of multi-year projects. Failure to submit this report by **September 1** of each year, or unsatisfactory review of a report, may result in withholding of additional project funds and may result in cancellation of the project or denial of funding for future projects. **PLEASE NOTE:** Significant changes in a project's objectives, methods, schedule, or budget require submittal of a new proposal that will be subject to the standard process of proposal submittal, technical review, and Trustee Council approval.

Project Number: 12120111C

Project Title: PWS Herring Program - Data Management

PI Names: Rob Bochenek

Time period covered: 02/01/12 - 02/01/13

Date of Report: 15 February 2013

Report prepared by: Rob Bochenek

Project website (if applicable):http://data.aoos.org/maps/pwsherring/

Work Performed:

During the first year of the EVOS Herring Program Data Management project investigators have been focused on establishing protocols for data transfer, metadata requirements and initiating the data salvage effort. The AOOS ocean workspace has been rolled out to PIs and their user and group profiles have been created. Investigators have been meeting via webex periodically with Matt Jones and other NCEAS staff to coordinate activities. PIs have participated in several PI meetings and are coordinating activities between the Herring and LTM programs. In addition, several training seminars have been held via webinars and PIs are beginning to use the system to organize and consolidate their project level data. Software engineers at Axiom have also been working to support the workspace, resolving bugs and implementing new functionality in response to user feedback. The data salvage effort has begun with prioritization from Scott Pegau and engagement of the Cordova Alaska Department of Fish & Game.

Specifically, investigators have addressed the objectives of the original proposal in the following ways.

Objective 1: Provide data management oversight and services for EVOS IHRP project team data centric activities which include data structure optimization, metadata generation, and transfer of data between project teams.

- Deployed, configured and facilitated the use of a web based data management and scientific collaboration tool (AOOS Ocean Workspace) to support data submission, metadata generation and foster integration between PWS Herring Program Investigators.
- Collaboration and coordination with NCEAS staff on historical data salvage for data synthesis efforts. Establishment of EVOS Historic Data Salvage group in AOOS Ocean Workspace.
- Data transfer from PIs has initiated with review by data management staff.

Create s project Create s project ALL (29) MY PROJECTS 0 ACOUNT SURVEY 3 ACOUNT 4 AFRIAL SURVEY 1 DODY CONSTITION 5 DISESS 72 FISH SAMPLING 4 CENETICS 31 HEM PROCIDEM 18 HIS MPROCIDEM 18	Adult herring acoustic survey 1 Scott 2 Scott 3 Scott 4 HERRING REGISTANT	Dec 21, 2012 Jun 08, 2012 Jun 08, 2012	6 days ago Rob detect a project. Herring PI Meeting Denso - My Herring Data Project 16 days ago Johanna added 2 firs PWS Herring Survey, Value of
ALL (29) MY PROJECTS 0 ACOUSTIC SURVEY 5 ADMIN 4 ARRAIL SURVEY 1 DODY CONDITION 5 DISEASE 2 FISH SAMPLING 4 GENETICS 1 HRM PROGRAM 18	Image: Scott Accounce Survey Coordination and logistics Scott Accuma Heroscaat Data managment support	Jun 08, 2012	Herring PI Meeting Demo - My Herring Data Project 16 days ago Johanna added 2 fles
ACOUSTIC SURVEY 5 ADMIN 4 AERAL SURVEY 1 DODY CONDITION 5 DISEASE 2 FSIS XAMPLING A GENETICS 1 HRM PROGRAM 18	Scott ADMIN HEM PROGRAM		Johanna added 2 files
DODY CONDITION 5 DISEASE 2 FISH SAMPLING 4 OPENECS 1 HRM PROGRAM 18		Jun 08, 2012	DWS Harring Sprear Units of
GENETICS 1 HRM PROGRAM 18			Growth and Energy Storage as Predictors of Winter Performance in YOY Herring from PWS
	Fish capture to support other projects 3 III III AS Scott HS PROGRAM HRM PROGRAM FISH SAMPLING	Dec 21, 2012	VollenweiderAMSS13_Fi AMSS 2013 Sewall Grow about a month ago
MODELING 1	Herring Condition and Monitoring	Jun 06, 2012	Steve deleted 4 files Herring PI Meeting Demo - My
MOVEMENT 2 OCEANOGRAPHY 2 PREDATION 3	Modeling the Population Dynamics of PWS Herring MODELING SYNTHESIS HRM PROGRAM	Jun 06, 2012	Herring Data Project ShapeFile_Extensions_V1 ADF&G_2008-2012_Al ADF&G_Basic_Descript
SCALE ANALYSIS 2 Synthesis 2	PWS Herring Program - A high temporal and spatial resolution study to validate the separate herring condition monitoring program. BODYCOMPTON INSU PROGRAM	Jun 08, 2012	And 1 more
	PWS Herring Program - Expanded Adult Herring Surveys Acoustic Survey [] HIMI PROGRAM	May 20, 2012	Herring PI Meeting Demo - My Herring Data Project ShapeFile_Extentions_V1 ADF&G_2008-2012_All
	PWS Herring Program - Fatty Acid Analysis as Evidence for Winter Migration of Age-o Herring in Prince William Sound	Jun 08, 2012	ADE&G Basic Description

Figure 1. Screenshot of PWS Herring Program Workspace group and interface.

Objective 2: Consolidate, standardize and provide access to study area data sets that are critical for retrospective analysis, synthesis and model development.

- Re-established data exchange relationship with ADF&G and created an ADF&G dedicated AOOS Ocean Workspace Group for the secure sharing of data with PWS Herring Program Investigators. New updated Herring Spawn data has been recently submitted by Steve Moffitt with other data sets to follow.
- Updated PWS Herring Portal by integrating it with the AOOS Ocean Portal Framework and deploying it to the AOOS website.
- Several baseline observational data sets and GIS resources have been consolidated and integrated into the AOOS data system to be exposed through the PWS Herring Portal.

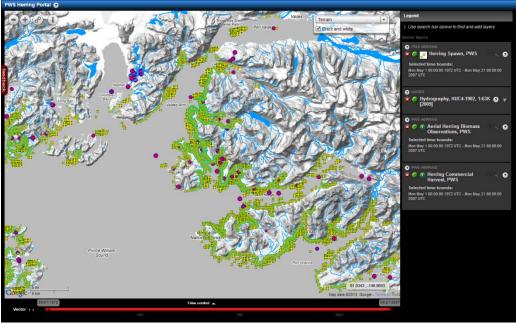


Figure 2. Herring Portal screenshot.

Objective 3: Integrate all data, metadata and information products produced from this effort into the AOOS data management system for long term storage and public use.

- AOOS has provisioned capacity and storage space for archiving all PWS Herring Program datasets and electronic materials.
- AOOS is working to develop methods to publish and make publicly available datasets and metadata that have been staged in the AOOS Ocean Workspace.

Future Work:

Investigators will continue work on the schedule outlined in the original proposal. Specifically, this will focus on facilitating the transfer, documentation and review of year 1 sampling activities, coordinating with NCEAS staff on the historical data salvage and upgrading the PWS Herring Portal with updated herring data sets from ADF&G Cordova.

Coordination/Collaboration:

This project is focused on providing a framework for cross disciplinary integration through the facilitated use of a web based data management tool (AOOS Ocean Workspace). This platform will provide scientists and administrators increased transparency and improved access to PWS Herring Program data sets and other

contextual information. NCEAS has also used the workspace to stage data for their synthesis effort and data salvage activities.

Community Involvement/TEK & Resource Management Applications:

Several presentations were made to various community and research groups during the last year (CIRCAC, GOAIERP, and Arctic Eis) discussing the approach and results of this project.

Information Transfer:

No new data sets were produced from this effort but a large number of retrospective and historic datasets have been aggregated and staged on the AOOS Ocean Workspace in coordination with NCEAS. The ultimate goal being to increase information transfer between PWS Herring Program investigators to increase integration and support synthesis.

Budget:

No differences or problems with previous or out year budgets.

		EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL						
		ANNUAL PROG	RAM REPORT	YEAR 1				
				70741				
Budget Category:		Proposed	Actual Year 1	TOTAL Difference				
		Year 1	reari	Difference				
Personnel		\$94,400	\$89,627	\$4,773				
Travel		· · · / · · ·		\$0				
Contractual				\$0				
Commodities				\$0				
Equipment		\$3,900		\$3,900				
Indirect Costs (will va	ary by proposer)	\$21,700	\$19,676	\$2,024				
	SUBTOTAL	\$120,000	\$109,303	\$10,697				
General Administrati	on (9% of subtotal)	\$10,800	\$9,837	\$963				
	PROJECT TOTAL	\$130,800	\$119,140	\$11,660				
Other Resources (Co	ost Share Funds)	\$0	\$0	\$0				
COMMENTS: This p	project is listed as a s	subcontract in Pe	gau. Spending	shown here rep	oresents billin	g to PWSSC as	s of January 31, 2	



We appreciate your prompt submission of your report and thank you for your participation.