

**EVOSTC FY17-FY21 INVITATION FOR PROPOSALS  
FY18 CONTINUING PROJECT PROPOSAL SUMMARY PAGE**

*Proposals requesting FY18 funding are due to [shiwang.wang@alaska.gov](mailto:shiwang.wang@alaska.gov) and [elise.hsieh@alaska.gov](mailto:elise.hsieh@alaska.gov) by August 23, 2017. Please note that the information in your proposal and budget form will be used for funding review. Late proposals, revisions or corrections may not be accepted.*

**Project Number and Title**

18120111-A Herring Program – Program Coordination

**Primary Investigator(s) and Affiliation(s)**

W. Scott Pegau, Prince William Sound Science Center

**Date Proposal Submitted**

July 31, 2017

**Project Abstract**

This proposal is to provide coordination of the Herring Research and Monitoring (HRM) program. In addition to the coordination efforts, it includes a postdoctoral researcher to analyze the relationships between herring stocks and physical and biological oceanographic conditions. Furthermore, it covers the community involvement and outreach activities of the program. The goal of the project is to provide coordination within the HRM program and with the Gulf Watch Alaska (GWA) and Data Management (DM) programs. The objectives of the project are:

- 1) *Coordinate efforts among the HRM projects to achieve the program objectives, maximize shared resources, ensure timely reporting, and coordinate logistics.*
- 2) *Oversee a postdoctoral researcher.*
- 3) *Provide outreach and community involvement for the program.*

The proposed approach follows that used during the Prince William Sound Herring Survey and initial HRM programs. Coordination will primarily be through e-mail and teleconference. The management team of GWA and the lead of DM will be included in the emails to HRM PIs to ensure they are aware of our activities. We also plan joint PI meetings and community involvement activities.

The postdoctoral researcher will be recruited in year one and is funded for three years. The focus area of the research was chosen to overlap with the activities of both HRM and GWA programs.

Outreach efforts will be focused on providing up-to-date information on the projects and their findings. Community involvement includes regular communications with stakeholders, such as the herring division of the Cordova District Fishermen United and Alaska Department of Fish and Game to stay aware of their findings and observations. We also are planning listening sessions in two of the villages to seek additional local and traditional ecological knowledge.

<b>EVOSTC Funding Requested* (must include 9% GA)</b>					
<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>	<b>FY21</b>	<b>TOTAL</b>
<b>138.4</b>	<b>270.2</b>	<b>284.1</b>	<b>256.1</b>	<b>90.7</b>	<b>1,039.4</b>

<b>Non-EVOSTC Funds to be used, please include source and amount per source:</b>					
<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>	<b>FY21</b>	<b>TOTAL</b>
<b>26.0</b>	<b>26.6</b>	<b>27.2</b>	<b>28.0</b>	<b>28.3</b>	<b>136.1</b>

*\*If the amount requested here does not match the amount on the budget form, the request on the budget form will be considered to be correct.*

## 1. EXECUTIVE SUMMARY

The goal of this proposal is to provide the coordination necessary to continue integrating the research and monitoring projects to achieve the program goals. This proposal addresses providing a program lead who will work with and be responsive to the Council's objectives and requirements, who will facilitate the most cost-effective and scientifically-supportive stream of funding, provide a program science panel to provide program oversight, and other duties as identified in the invitation for proposals.

To date, the coordination efforts have focused on ensuring sampling has occurred as scheduled by the individual projects and providing a point of contact with the EVOSTC office as the program ramps up and the previous program is wrapped up.

## 2. COORDINATION AND COLLABORATION

### A. Within an EVOSTC-Funded Program

This project provides the overall coordination between all projects within the program, therefore is directly linked to each project. This is a continuation of the effort that began with the first HRM program.

Dr. Pegau is the program team leader responsible for ensuring a coordinated and focused research program that leverages other assets whenever possible. Within program coordination is primarily through e-mail and phone communications. In-person meetings of participants are expected to occur each year for exchange of information and to encourage collaboration between projects. The first annual meeting is scheduled for November 2017.

Coordination between projects is also taking place through scheduling of vessels. All the investigators are required to work together to determine vessel type and number of days needed. Coordination was also achieved through the scheduling of projects to ensure results would be available for projects dependent on samples or data from another project.

We expect that the postdoctoral researcher will facilitate further collaboration as that person will need information from each of the projects to address the relationships between herring and the environmental conditions.

### With Other EVOSTC-funded Programs and Projects

This project provides the primary link between the HRM, GWA, and Data Management programs. Dr. Pegau worked with the GWA team and AOOS/Axiom during proposal development to examine areas of overlap between programs and to ensure data management needs can be met.

We propose to continue our collaborations with these programs. Mandy Lindeberg the GWA science lead and Carol Janzen from the Data management team are included on the HRM email list so they are aware of what is going on in the HRM program. Administratively, the annual work plans and reports will continue to be developed together. We plan to have joint PI meetings to encourage individuals to work with people in the other programs. We will work together to design topics for analysis and development of joint scientific manuscripts. We will work with the Data Management project to ensure timely submission of data and metadata.

We are advertising for a postdoctoral researcher that will bridge between the HRM and GWA programs in that they would be looking at the impacts of biological and physical oceanographic conditions on herring populations in PWS. We expect them to work closely with the environmental drivers and pelagic components of the GWA program to collect the data necessary for their analysis.

#### **With Trustee or Management Agencies**

Alaska Department of Fish and Game is the primary trustee and management agency that the HRM program aims to serve. The success of the program is highly dependent on the information collected by ADF&G so it is imperative that we work with the agency. We will continue to have an ADF&G person on our scientific oversight group. We are also incorporating ADF&G into the sample collection of the research program to ensure the data needed to understand recovery of herring is collected.

### **3. PROJECT DESIGN – PLAN FOR FY18**

#### **A. Objectives for FY18**

The coordination project is designed to help the research team achieve the program objectives. The objectives of the coordination project are as follows:

- 1) *Coordinate efforts among the HRM projects to achieve the program objectives, maximize shared resources, ensure timely reporting, and coordinate logistics.* Integration of the projects throughout the program is necessary to improve our scientific understanding of factors affecting herring and to maximize use of resources, such as ship time.
- 2) *Oversee a postdoctoral researcher.* Being able to closely examine the connections between herring stocks and the physical and biological conditions requires more focused effort than can be provided by the program coordinator. This person will be responsible for testing the HRM program's second hypothesis: *Herring recruitment is driven by bottom up forcing and the total population level is determined by disease and predation.* The postdoctoral researcher is expected to assist tying together the information from the various projects to develop greater understanding of herring in PWS.
- 3) *Provide outreach and community involvement for the program.* Strong ties to Alaska Department of Fish and Game and the fishing community are important for guiding program efforts, gaining new insights, and demonstrating the relevance to both the management agency and the fishing community.

This work continues the coordination efforts that have been in place during the PWS Herring Survey and HRM programs. The coordination provides a point contact with the program and is responsible for ensuring timely reporting. The objectives of the project help integrate findings within the HRM program and with findings from the environmental drivers and pelagic components of the GWA program. The postdoctoral researcher is a new component and is designed to tie results from HRM and GWA together. The final product will be a peer-reviewed manuscripts.

#### **B. Changes to Project Design**

There are no changes anticipated at this time.

### **4. SCHEDULE**

#### **A. Program Milestones for FY18**

Objectives one and three are continuing efforts that will not be completed until the end of the program. We are currently advertising for the postdoctoral researcher that is the focus of objective two. We anticipate that person will begin work at the beginning of this fiscal year.

**B. Measurable Project Tasks for FY18**

- FY18 1<sup>st</sup> Quarter (Feb1- Apr 30)
  - Postdoctoral researcher starts work
  - Semi-annual reports to EVOS and NOAA
- FY18 2<sup>nd</sup> Quarter (May1- Jul 31)
  - Ensure data submitted from previous year
- FY18 3<sup>rd</sup> Quarter (Aug 1 – Oct 31)
  - Semi-annual report to NOAA
  - FY 19 proposal submitted to EVOS
- FY18 4<sup>th</sup> Quarter (Nov 1 – Jan 31)
  - Complete annual website updates
  - Annual PI meeting

**5. PROJECT PERSONNEL – CHANGES AND UPDATES**

We are awaiting selection of the postdoctoral candidate and do not have their information at this time.

**6. Budget**

**A. Budget Forms (Attached)**  
Provide completed budget forms.

**B. Changes from Original Proposal**  
If your FY18 funding request differs from your original proposal, provide a detailed list of the changes and discuss the reason for each change.

**C. Sources of Additional Funding**  
Identify non-EVOSTC funds or in-kind contributions used as cost-share for the work in this proposal. List the amount of funds, the source of funds, and the purpose for which the funds will be used. Do not include funds that are not directly and specifically related to the work being proposed in this proposal.

**A. Budget Forms**

See attached for detail.

Budget Category:	Proposed FY 17	Proposed FY 18	Proposed FY 19	Proposed FY 20	Proposed FY 21	TOTAL PROPOSED	ACTUAL CUMULATIVE
Personnel	\$57.0	\$153.3	\$164.4	\$161.9	\$51.7	\$588.3	\$ 2.7
Travel	\$6.4	\$9.9	\$6.4	\$6.4	\$6.4	\$35.5	\$ -
Contractual	\$24.7	\$26.0	\$26.2	\$11.0	\$4.4	\$92.3	\$ 22.1
Commodities	\$3.8	\$1.5	\$3.5	\$1.4	\$1.5	\$11.7	\$ -
Equipment	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$ -
Indirect Costs (will vary by proposer)	\$35.1	\$57.20	\$60.15	\$54.2	\$19.2	\$225.8	\$ 14.9
<b>SUBTOTAL</b>	<b>\$127.0</b>	<b>\$247.8</b>	<b>\$260.7</b>	<b>\$234.9</b>	<b>\$83.2</b>	<b>\$953.6</b>	<b>\$39.7</b>
General Administration (9% of subtotal)	\$11.4	\$22.3	\$23.5	\$21.1	\$7.5	\$85.8	N/A
<b>PROJECT TOTAL</b>	<b>\$138.4</b>	<b>\$270.2</b>	<b>\$284.1</b>	<b>\$256.1</b>	<b>\$90.7</b>	<b>\$1,039.4</b>	
Other Resources (Cost Share Funds)	\$26.0	\$26.6	\$27.2	\$28.0	\$28.3	\$136.1	

**B. Changes from Original Proposal**

No changes in budget are requested

**C. Sources of Additional Funding**

The Oil Spill Recovery Institute is willing to provide up to two months of salary for Pegau to support coordination of the program if necessary.