

EVOSTC ANNUAL PROJECT REPORT

Recipients of funds from the *Exxon Valdez* Oil Spill Trustee Council must submit an annual project report in the following format by **Sept. 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 Sept. 1.** Timely receipt of your report allows more time for court notice and transfer, report review and timely release of the following year's funds.

Satisfactory review of the annual report is necessary for continuation of multi-year projects. Failure to submit an annual report by **Sept. 1** of each year, or unsatisfactory review of an annual report, will 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: 10100132-C

Project Title: PWS Herring Survey: Pacific Herring Energetic Recruitment Factors

PI Name: Dr. Tom Kline

Time period covered: F/Y2012

Date of Report: 1 September 2012

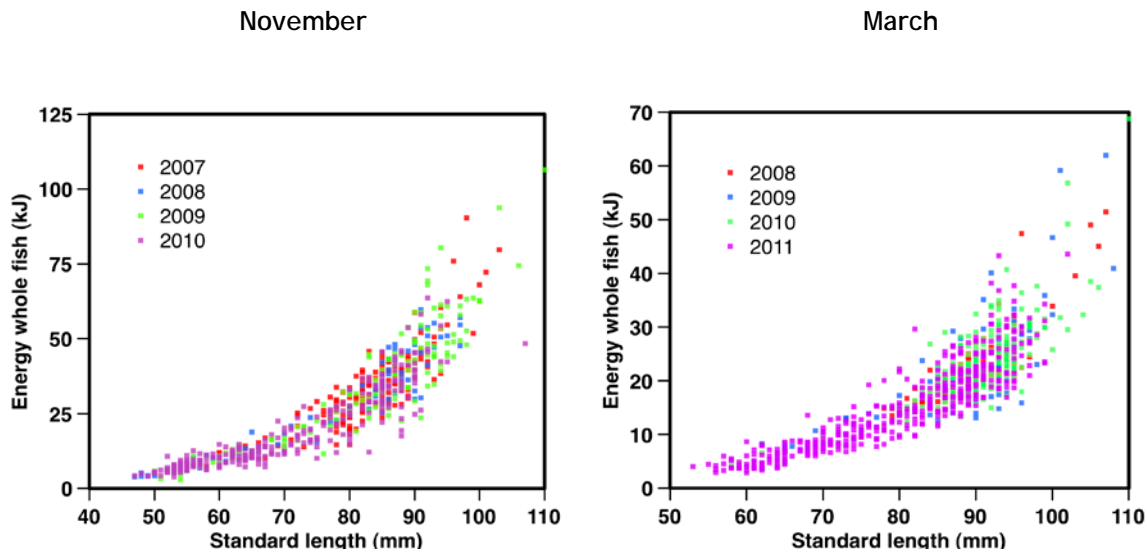
Report prepared by: Dr. Tom Kline

Project website (if applicable): <http://www.pwssc.org/herringsurvey/>

Work Performed: Summarize work performed during the reporting period, including any results available to date and their relationship to the original project objectives. Explain deviations from the original project objectives, procedural or statistical methods, study area or schedule. Also describe any known problems or unusual developments, and whether and how they have been or can be overcome. Include any other significant information pertinent to the project.

- Collected herring samples on two cruises (November 2011 and March 2012)
- Herring samples from cruises sent to collaborators
- Samples from March and November 2011 cruises prepared for analysis
- Received samples from March 2012 fisherman's blitz cruise
- Preliminary laboratory processing of March 2012 samples complete
- Processed March and November 2011 samples sent to UAF Stable Isotope Facility
- Data from March 2011 cruise received and incorporated into data analysis (see figure)

- Cumulative age-0 herring energy data summarized in figures below



- Data suggest over-winter energy loss affects all sizes of age-0 herring (note change in Y-axis scale)
- No evidence of better condition in any particular year
- Possible selective loss of smaller sized herring

Future Work: Summarize work to be performed during the upcoming year, if different from the original proposal. Describe any proposed changes in objectives, procedural or statistical methods, study area or schedule. *NOTE: Significant changes in a project's objectives, methods, schedule or budget require submittal of a new proposal subject to the standard process of proposal submittal, technical review and Trustee Council approval.*

- No difference

Coordination/Collaboration: Describe efforts undertaken during the reporting period to achieve the coordination and collaboration provisions of the proposal, if applicable.

- Samples collected for and sent to collaborators
- Contributed a data presentation and participated in P.I. meeting

Community Involvement/TEK & Resource Management Applications: Describe efforts undertaken during the reporting period to achieve the community involvement/TEK and resource management application provisions of the proposal, if applicable.

- March blitz cruise done in collaboration with local fishers
- Made public presentation of herring research in Cordova

Information Transfer: List (a) publications produced during the reporting period, (b) conference and workshop presentations and attendance during the reporting period, and (c) data and/or information products developed during the reporting period. *NOTE: Lack of compliance with the Trustee Council's*

data policy and/or the project's data management plan will result in withholding of additional project funds, cancellation of the project, or denial of funding for future projects.

(a): Presented a paper titled "Estimating Overwinter Mortality of Age-0 Pacific Herring Based on Loss of Energy and Implications for Recruitment" at a special session named Herring Research and Management that was held at the American Fisheries Society Alaska Chapter 2011 annual meeting held in Girdwood.

(b): Presented a paper titled "Food sources utilized by herring in relation to other juvenile fishes rearing in nursery habitats during the high latitude winter" is a special session numbered and named 124: New insights into the early life stages and reproductive dynamics of large marine vertebrates that was held at the 2012 Ocean Sciences Meeting in Salt Lake City.

(c): Submitted the abstract titled "Estimating Overwinter Mortality of Age-0 Pacific Herring Based on Loss of Energy and Implications for Recruitment" to the AMMS 2013 as an oral presentation.

Budget: Explain any differences and/or problems between actual and budgeted expenditures, including any substantial changes in the allocation of funds among line items on the budget form. Also provide any new information regarding matching funds or funds from non-EVOS sources for the project. *NOTE: Any request for an increased or supplemental budget must be submitted as a new proposal that will be subject to the standard process of proposal submittal, technical review, and Trustee Council approval.*

No differences or problems.

We can accept your annual report as a digital file (Microsoft Word or WordPerfect), with all figures and tables embedded. Acrobat Portable Document Format (PDF) files (version 4.x or later) are also acceptable; please do not lock PDF files or include digital signatures.

Please submit reports electronically in [ProjectView](#) or by email to catherine.boerner@alaska.gov. Also, please be sure to post your annual report on your own website, if you have one.



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