

## ***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/Y2011

***Date of Report:*** 1 September 2011

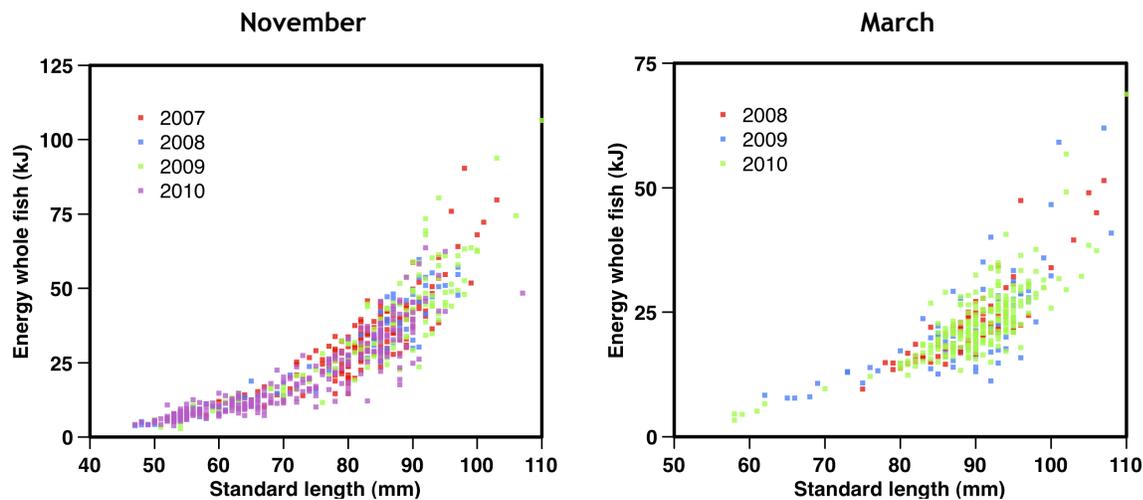
***Report prepared by:*** Dr. Tom Kline

***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 2010 and March 2011)
- Herring samples from cruises sent to collaborators
- Samples from March and November 2010 cruises prepared for analysis
- Received samples from March 2011 fisherman's blitz cruise
- Prepared March and November 2010 samples sent to UAF Stable Isotope Facility
- Data from March and November 2010 cruises incorporated into data analysis.
- Submitted and revised proposals covering next five years to EVOS-TC

- Cumulative age-0 herring energy data summarized in figures below (cohorts are color-coded):



- Data suggest over-winter energy loss affects all sizes of age-0 herring
- 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
- Data products produced in collaboration with education department
- Contributed a data presentation and participated in P.I. meeting
- Coordinated and collaborated with multiple P.I.'s during proposal preparation
- Collaborated with Axiom on database generation

**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): A manuscript titled "Stable carbon and nitrogen isotope variation in the northern lampfish and *Neocalanus*, marine survival rates of pink salmon, and mesoscale eddies in the Gulf of Alaska" was published by the journal *Progress in Oceanography*. This paper contains EVOS-TC funded results, which is acknowledged.

(b): P.I. gave a public lecture on EVOS research at UAA (fall 2010). P.I. attended and presented a herring poster at the 2010 annual PICES meeting. P.I. attended and presented a poster at the 2011 Alaska marine science symposium. P.I. presented results from EVOS research at Copper River Delta Science Symposium. P.I. gave a herring research presentation and participated in, P.I. meeting. P.I. attended and presented at the PICES FUTURE workshop (April 2011). P.I. will be attending and presenting a herring paper at the 2011 American Fisheries Society annual meeting (September).

(c): Created and provided two archival herring data files for a separate data management project. One file contains legacy SEA project data, the other data generated since 2007, which will be updated as new data become available. Contributed to the "The Breakwater", the PWSSC's newsletter. Generated in collaboration with the PWSSC education Department the "enhanced Field Notes program" titled "Herring Stable Isotope Analysis for Prince William Sound", which is posted on You Tube: <http://www.youtube.com/user/cordovaalaska#p/u>. Contributed to project webpage, main link here: <http://www.pwssc.org/herringsurvey/> (also blog within).

**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](mailto: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.*