

EVOSTC Annual Project Report

Project Number: 12120111-I

Project Title: **PWS Herring Research and Monitoring - Fatty Acid Analysis as Evidence for Winter Migration of Age-0 Herring in Prince William Sound**

PI Names: Ron Heintz, Johanna Vollenweider

Time Period Covered: September 1, 2012 – March 1, 2013

Date of Report: February 14, 2013

Report Prepared By: R. Heintz, F. Sewall

Work Performed:

1. Field samples collected in fall 2012 from PWS Herring Monitoring program were received in December 2012.
2. Lipid extraction, preparation and analysis of fatty acid samples of samples from lab study and fieldwork continued. Due to limited sample availability from the high temporal and spatial resolution study in 2012, sample sources from herring collections in PWS in support of the Herring Survey program were identified and analysis of these samples is ongoing.

Future Work:

Spring samples from the herring monitoring program are expected in late March 2013. Lipid extraction, preparation and analysis of fatty acid samples will continue and all analysis is expected to be completed by September 2013, as proposed.

Coordination/Collaboration:

In addition to local collection of herring completed by Auke Bay Laboratories personnel, herring collections for this project rely on the sampling conducted and organized by the Prince William Sound Science Center (PWSSC). Field samples from fall 2010, spring 2011, fall 2011, and spring 2012 were obtained from chartered cruises conducted by the PWSSC. Samples analyzed here for fatty acid composition are subsamples from greater catches that have been apportioned for other analyses, including energy content by T. Kline, and disease prevalence by P. Hershberger, and growth and energy storage by Heintz & Vollenweder. Our field samples are derived under the 3-year Prince William Sound Herring Survey, which is a collaborative effort integrating a host of additional parameters, including herring abundance estimates (D. Thorne), oceanographic parameters (S. Gaye), zooplankton abundance (R. Campbell), predator abundance (M. Bishop).

Community Involvement/TEK & Resource Management Applications:

Spring 2011 and 2012 field samples were obtained from the spring “blitz” effort in which Cordova community members aided PWSSC in collections throughout the Sound.

Information Transfer:

Preliminary results are to be presented at the AK Marine Science Symposium, Anchorage, AK in January 2014, and future meetings of PI's for the Herring Research and Monitoring program. Results were insufficient for presentation at 2013 AMSS.

Budget:

Budget expenditures are proceeding as per projections.

EXXON VALDEZ OIL SPILL TRUSTEE COUNCIL ANNUAL PROGRAM REPORT YEAR 1			
Budget Category:	Proposed Year 1	Actual Year 1	TOTAL Difference
Personnel			\$0
Travel			\$0
Contractual	\$15,000	\$12,500	\$2,500
Commodities	\$1,900	\$4,400	(\$2,500)
Equipment			\$0
Indirect Costs (<i>will vary by proposer</i>)			\$0
SUBTOTAL	\$16,900	\$16,900	\$0
General Administration (9% of subtotal)	\$1,521	\$1,521	\$0
PROJECT TOTAL	\$18,421	\$18,421	\$0
Other Resources (Cost Share Funds)	\$0	\$0	\$0

COMMENTS:

FY12	Program Title: HRM Fatty Acid Analysis Team Leader: Heintz	SUMMARY
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