

Final Report Form - Oil Spill Recovery Institute

An electronic copy of this report shall be submitted by mail, or e-mail to the OSRI Research Program Manager wspogau@pwssc.org and Financial Office poswalt@pwssc.org
Mailing address: P.O. Box 705 - Cordova, AK 99574 -

Deadline for this report: Submittal within 90 days of grant/award expiration. **Also**, note that a summary Financial Statement shall be submitted **within 45 days** of the grant expiration. The final invoice and financial statement is due within 90 days of the grant/award expiration.

Today's date: November 22, 2011

Name of awardee/grantee: Richard E. Thorne

OSRI Contract Number: 101005

Project title: PWSSC Data Management

Dates project began and ended: July 1, 2010 to Sept 30, 2011

PART I - Outline for Final Program or Technical Report

This report must be submitted by all grantees. However, for those whose project work resulted in a peer reviewed publication (whether in draft or final form), this report may be abbreviated and the publication attached as part of the report.

- A. Non-technical Abstract or summary of project work that does not exceed 2 pages and includes an overview of the project. This abstract should describe the nature and significance of the project. It may be provided to the Advisory Board and could be used by OSRI staff to answer inquiries as to the nature and significance of the project.

The objective of this project was to develop a data management system for data collected by Prince William Sound Science Center (PWSSC) investigators. As part of this effort, PWSSC principal investigators worked with Axiom Consulting to document the status of existing PWSSC data sets, with an emphasis on recently collected and planned data collection. After identification, data sets were formatted for consistency and ease of identification and use, then the formatted data sets were transmitted to Axiom. The major challenge was the hydroacoustic data, which were extensive and voluminous. Most of the hydroacoustic data since 2000 were located and identified. Major sections were formatted and transmitted to Axiom. Additional sections were formatted and are ready to be transmitted. Overall, about half of the hydroacoustic data since 2000 have been formatted. Efforts will continue to format and transfer additional hydroacoustic data to Axiom. Hydroacoustic data prior to 2000 were beyond the scope of this effort. Data files of principal investigators Mary Anne Bishop and Tom Kline were successfully archived.

- B. Review objectives as described in original proposal and state whether these objectives were achieved.

Appendix K – OSRI Grant Policy Manual

The objective of this project was to develop a data management system for data collected by Prince William Sound Science Center (PWSSC) investigators. The project included two components: One with Axiom Consulting, the second with the Prince William Sound Science Center (PWSSC). The overall objective was for PWSSC principal investigators to work with Axiom Consulting in the development of an internal data management system. This report is limited to the PWSSC component. The first step in the data management development is to assess what data is available, where it is stored, what form it is in, and the state of the existing metadata. PWSSC investigators worked with Axiom Consulting to document the status of existing data sets, with an emphasis on recently collected and planned data collection.

From the perspective of PWSSC, the primary objective (to assess what data is available, where it is stored, what form it is in, and the state of the existing metadata) was successfully accomplished. As expected, the vast majority of the data was associated with the hydroacoustic projects. In the case of Principal Investigators Mary Anne Bishop and Tom Kline, all current data sets were successfully transferred to Axiom Consulting. For the hydroacoustic program, examples of all critical data sets were provided to Axiom and a sizeable amount of data was successfully transmitted. A substantial additional number of data sets has been converted to standard formats and is ready for transfer.

C. Describe problems or roadblocks encountered in project implementation.

From the perspective of PWSSC there were no problems or roadblocks that were not anticipated. The hydroacoustic data sets were recognized to be challenging due to their magnitude and scope. The major effort was associated with the need to standardize data formats and nomenclature. The secondary effort was to locate older data sets. The efforts were largely successful. It was recognized that some older data (2000-2003) would include analog formats that would require efforts beyond the scope of this project. Even older data (SEA Program) were beyond even contemplation in this effort.

D. Highlight accomplishments, whether or not they were part of the original proposal.

The primary accomplishment was to identify and locate the substantial magnitude of data, especially hydroacoustic, that had been collected by PWSSC over the past decade. The raw hydroacoustic data from the adult herring surveys alone amounted to nearly 1.5GB over the past 4 years. Since the hydroacoustic survey effort had multiple sponsors, data files were spread over several locations.

E. Conclusions.

This program was able to make substantial progress toward identifying multiple data sets and sources and providing a framework so that the substantial efforts of the past can be preserved and made available to future researchers. However, more effort needs to be applied to the identified data sets from 2000 to 2005, and older data sets, especially SEA data, are in danger of being lost without a substantial additional effort.

Appendix K – OSRI Grant Policy Manual

- F. Appendix including copies of all written reports or publications completed or in progress, resulting from the project work. This also includes abstracts of papers presented at conferences. Please note the acknowledgment of OSRI support stated in Section 10.3.4 of the Grant Policy Manual.

The attached table summarizes the status of the hydroacoustic data.

Part II - Final Financial Statement

Please complete the attached Excel spreadsheet (GPM-appendix I – Fin Rpt Form).