

## **Annual Report - Oil Spill Recovery Institute**

**Date:** 2/14/06

**Awardee/Grantee:** Peter Q. Olsson, Alaska Experimental Forecast Facility, University of Alaska Anchorage

**OSRI Contract No:** 05-10-10

**Project Title:** **Development and Hosting of a Web Site for the Prince William Sound Observing System**

**Report Covers:** Period from October 1, 2005 thru December 31, 2005

### **PART I - Progress Report on Activities**

#### Abstract

This project, to develop a website for the Prince William Sound Ocean Observing System, was (and is) part of a collective effort among OSRI, UAA/AEFF (this project), AOOS, and AOOS/UAF partners (hereafter referred to as the management team). As is typical of such a nascent project with many partners, the goals evolved as time progressed and the website concept expanded. As originally envisioned at the inception of this project, the AEFF would host the website <http://pwsos.aos.org> which would be developed with assistance from programmers and a Data Manager at UAF.

Early in the design phase it became apparent that this was a much larger task than originally envisioned. The management team determined that a look and feel appropriate to the entire statewide AOOS was desirable from the very beginning and hired a web-development consulting to come up with a "strawman" set of template pages for the various web site functions. This was then evaluated exhaustively by the management team, which gave feedback to the consultants who modified this in an iterative fashion.

Once the templates were complete, the AOOS/UAF team started fleshing out the pages with real observation and model data from a variety of sources. The OSRI-funded AEFF project contributed by identifying data sources, facilitating data transfer, and providing feedback on the various display techniques. It became apparent that UAF had much more in the way of AOOS-funded manpower and resources than UAA and that the development of web pages could best be accomplished by them developing a developmental web site, <http://ak.aos.org/pws2> to host the pwsos pages.

It has become apparent that data management for this project is a much larger job than originally envisioned, especially to be in compliance with the IOOS-DMAC (data management and access committee) and its AOOS counterpart (of which the PI is a member). Therefore, it has been determined that the data flow will be to the AOOS

Statewide, and the data will then be fed in quasi-real time to the AEFF site which will be a backup data repository for all the pertinent PWSOS data. The AEFF will also act as a mirror site to the AOOS statewide presence.

The AEFF has been active in developing the infrastructure necessary to operate the site. We have purchased (with internal UAA funds) and configured an enterprise-class web server and a mass-storage RAID device to house the mirrored database. Considerable effort has gone into developing code to deliver RAMS data to the statewide site. Furthermore, a considerable amount of software has been installed on the web server and backend data base host. (The requisite software to make the mirror site function change frequently as the statewide AOOS site evolves. This is all definitely a work in progress)

Brief review of the objectives as described in original proposal and progress report related to these objectives

**1. establish a web presence for [www.pwsos.org](http://www.pwsos.org) with a focus towards developing displays for real time data and ocean observing system products**

As noted above, the name has changed to <http://ak.aos.org/pws2> but the concept is still the same. The management team, together with AOOS/UAF have come a LONG way towards developing displays of ocean observing products. In a number of ways AOOS, and specifically its test bed, the PWSOS, lead the nation in quality of ocean observing visualization. The site is also reasonably friendly to navigate due to the management team's efforts.

**2. provide the hardware and personnel to establish a data and metadata archive to be routinely replicated with the data stored on a UAF live-access server.**

Again, as noted above, we have been successful in providing the hardware (and much more significantly the software, though not mentioned above) to establish a data link. As to whether the data will be provided via a live-access server at UAF (vs some other protocol) is up to the UAF part of the management team. We are ready to proceed with this as soon as UAF is ready to move ahead, which is anticipated to be in the next few weeks.

Describe problems or roadblocks encountered in project implementation.

No major problems to note here. As already noted, this is a constantly evolving project, and the objectives tend to change as the complex system does. This is bound to occur, especially when there are a number of collaborators from different institutions that have differing agendas, priorities, and timetables.

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

The existence and content of <http://ak.aos.org/pws2> is a significant accomplishment for the management team.

Conclusions to date

Never underestimate the complexity of a project!

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

None to report for this project.

**PART II - Budget Report**

Expenses through December 31, 2005

<b>Budget Category</b>	<b>Budget</b>	<b>Quarter Expenses</b>	<b>Cumulative Expenses</b>	<b>Balance Remaining</b>
<b>Direct Costs</b>				
Personnel	14,501.00	13,737.77	15,908.20	-1,407.20
Travel	500.00	0.00	0.00	500.00
Contractual	10,000.00	0.00	0.00	10000.00
Commodities	304.00	0.00	1297.74	-993.74
Equipment	5,687.00	0.00	5466.00	221.00
<b>Subtotal</b>	<b>30,992.00</b>	<b>13,737.77</b>	<b>22,671.94</b>	<b>8,320.06</b>
<b>Direct Costs</b>				
Indirect	9,008.00	4,890.66	6,125.33	2,882.67
<b>Project Total</b>	<b>40,000.00</b>	<b>16,628.43</b>	<b>28,797.27</b>	<b>11,202.73</b>