

Project Number: 050614

Project Title: A monitoring program for near-surface temperature, salinity, and fluorescence fields in the northeast Pacific Ocean

PI Name: Stephen Okkonen

Time Period Covered by Report: 1 July 04 to 30 June 05

Date of Report: 28 July 2005

1. Work Performed

For the period during which the T/V Polar Alaska was in dry dock for repairs (July-November 04) the thermosalinograph (TSG) was removed from the vessel. The TSG was reinstalled in December 04 and has been collecting data since that time.

2. Future Work

It is expected that the TSG will continue to collect data. Okkonen is applying for a 2006 NRC senior fellowship at NASA's Jet Propulsion Laboratory to collaborate with Dr. Ben Holt on a proposed project to combine TSG observations (and other in situ observations) with satellite observations to improve understanding of short-period (~10-100 day) variations in frontal structure in the northern Gulf of Alaska and Prince William Sound.

3. Coordination/Collaboration

N/A

4. Community Involvement/TEK

N/A

5. Information Transfer

The following peer-reviewed paper summarizing my EVOSTC-funded project results was published in June 2005:

Okkonen, S.R., D.L. Cutchin, and T.C. Royer. 2005. Seasonal variability of near-surface hydrography and frontal features in the northern Gulf of Alaska and Prince William Sound. *Geophys. Res. Lett.* vol. 32, L11611, doi:10.1029/2005GL023195.

The poster "An update of temperature and salinity fields in the northern Gulf of Alaska" was presented at the Alaska Marine Sciences Symposium in Anchorage in January, 2005.

6. Budget: Expenditures are in line with the project budget.

Project Web Site Address: www.ims.uaf.edu/tsg/