



Calhoun: The NPS Institutional Archive
DSpace Repository

Faculty and Researchers

Faculty and Researchers' Publications

2013-05

ONR Ship Operations

Lamerdin, Steven; Herbers, Thomas H.

<http://hdl.handle.net/10945/68962>

This publication is a work of the U.S. Government as defined in Title 17, United States Code, Section 101. Copyright protection is not available for this work in the United States.

Downloaded from NPS Archive: Calhoun



Calhoun is the Naval Postgraduate School's public access digital repository for research materials and institutional publications created by the NPS community. Calhoun is named for Professor of Mathematics Guy K. Calhoun, NPS's first appointed -- and published -- scholarly author.

Dudley Knox Library / Naval Postgraduate School
411 Dyer Road / 1 University Circle
Monterey, California USA 93943

<http://www.nps.edu/library>

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

1. REPORT DATE (DD-MM-YYYY) 24-05-2013		2. REPORT TYPE Final Technical Report		3. DATES COVERED (From - To) 12/1/2011-12/31/2012	
4. TITLE AND SUBTITLE ONR Ship Operations		5a. CONTRACT NUMBER NA		5b. GRANT NUMBER N00014-12-1-0097	
		5c. PROGRAM ELEMENT NUMBER N/A		5d. PROJECT NUMBER N/A	
		5e. TASK NUMBER N/A		5f. WORK UNIT NUMBER N/A	
6. AUTHOR(S) Stewart Lamerdin		7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) San Jose State University Research Foundation 210 N. Fourth St, 4 th Floor San Jose, CA 95112		8. PERFORMING ORGANIZATION REPORT NUMBER N/A	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) Office of Naval Research 875 N. Randolph St Arlington, VA 22203-1995				10. SPONSOR/MONITOR'S ACRONYM(S) ONR	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S) N/A	
12. DISTRIBUTION / AVAILABILITY STATEMENT "Approved for Public Release; distribution is Unlimited".					
13. SUPPLEMENTARY NOTES N/A					
14. ABSTRACT This report documents the use of funds awarded by Office of Naval Research (ONR) for the continued operational support of the Research Vessel Pt. Sur and the associated Marine Technician Program. <div style="text-align: center; font-size: 2em; margin-top: 20px;">2013060443</div>					
15. SUBJECT TERMS Research, Education					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON Stewart Lamerdin
a. REPORT U	b. ABSTRACT U	c. THIS PAGE U			19b. TELEPHONE NUMBER (include area code) (831) 771-4134

Final Technical Report
ONR Grant # N00014-12-1-0097

Date: May 24, 2013

Name and Address of Institution:
Moss Landing Marine Laboratories
Marine Operations
7539 Sandholdt Road
Moss Landing, CA 95039

Document Title:

Office of Naval Research (ONR) Support for *R/V Point Sur* Ship Operations – Final Report
Grant Number: N00014-12-1-0097
Grant Period: CY 2011 and CY 2012

Key People Associated with this Grant:

Project Directors:

Mr. Stewart Lamerdin, Marine Superintendent for Moss Landing Marine Laboratories
slamerdin@mlml.calstate.edu
831-771-4434

Dr. Jim Harvey, Director, Moss Landing Marine Laboratories
Harvey@mlml.calstate.edu
831-771-4402

Grant Administrator:

San Jose State University Research Foundation
210 N. Fourth St. 4th Floor
San Jose, CA 95112
Federal Taxpayer ID# 94-6017638
Atten: Ricky Yoneda
408-924-1441
ricky.yoneda@sjsu.edu

Technical Information and Discussion of Work:

The ONR Ship Operations Award, N00014-12-1-0097, was for *Research Vessel Point Sur* support for the period October 1, 2011 through December 31, 2012. The *R/V Point Sur* is owned by the National Science Foundation (NSF) and operated under a Cooperative Agreement between NSF and the San Jose State University Research Foundation (SJSURF) with Moss Landing Marine Laboratories the performing unit within the university. Moss Landing Marine Laboratories is a consortium campus of the California State University with San Jose State University and SJSURF as the administrative campus. The *R/V Point Sur* is operated as part of the University-National Oceanographic Laboratory System (UNOLS) and adheres to the UNOLS Research Vessel Safety Standards and other Federal requirements for cost accounting and scheduling. The last NSF inspection was successfully completed by NSF and Jamestown Marine Services on May 10, 2012 with the *Point Sur* determined to be in compliance with regulations and required standards. The operational and technical capabilities of the vessel can be viewed at the ship's website:
<http://marineops.mlml.calstate.edu>.

Final Technical Report
ONR Grant # N00014-12-1-0097

October 2011 – December 2012

During this period, the *R/V Point Sur* was used to support a series of four cruises for the ONR funded project "*Wave-Current Interactions in Coastal Inlets and River Mouths*" with Dr. Thomas H. Herbers of the Naval Postgraduate School as the Principal Investigator and Chief Scientist for all four cruises. One cruise in October 2011 and three cruises in CY2012 were conducted for a total of 15 days at sea. Mobilization and Demobilization support was provided before and after each cruise in Moss Landing. All costs for the operation of the vessel were included in the budget such as salaries for crew and shore support, overtime, benefits, maintenance, major overhaul, fuel, food, insurance, supplies, technical support and instrumentation, and miscellaneous costs such as security, rent, and utilities.

Each of the cruises in support of this ONR funded project consisted of transit to the entrance to San Francisco Bay (Golden Gate) and back to Moss Landing. While in the waters off the Golden Gate drifting GPS-tracked wave-resolving buoys were deployed to measure surface wave properties in strong tidal currents. The buoys were deployed offshore of the Golden Gate in the outgoing ebb tide. A few bottom tripods with velocity profilers and/or pressure sensors were deployed on the ebb shoal. Additionally, shipboard Acoustic Doppler Current Profiler (ADCP) and Conductivity, Temperature and Depth (CTD) surveys were conducted using MLML supplied instrumentation to measure the vertical structure of the tidal currents and stratification. These cruises were conducted seasonally in October 2011, February 2012, April 2012 and again in October 2012. These cruises were completed successfully and will be followed up with related work in 2013 at the mouth of the Columbia River on the Oregon/Washington border.

Biographical Information for Key Personnel:

Stewart Lamerdin

B.S. Biology, Lewis and Clark College, Portland Oregon, 1992

M.S. Marine Science, Moss Landing Marine Laboratories, 2000

Professional Positions:

- Marine Superintendent, MLML July 2007 – May 2013
- Assistant Marine Supt./Senior Marine Technician, MLML Sept. 2006 – June 2007
- Senior Marine Technician, MLML Aug 1999 – Aug 2006

Jim Harvey

San Jose State University, 1974. B.A., Biology/Marine Biology

MLML, 1979. M.S., Marine Biology

Oregon State University, 1987. Ph.D., School of Oceanography

Professional Positions:

- Director, MLML May 2013 to Present, Interim Director Sept 2011 to May 2013
- Department Chair, MLML 2007 to Aug 2011
- Professor, Associate Professor, Asst. Professor, MLML Jan 1991 to Present