

REPORT DOCUMENTATION PAGE					Form Approved OMB No. 0704-0188	
The 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 the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the 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) 01-07-2015		2. REPORT TYPE Final Report		3. DATES COVERED (From - To) 01 February 2013 - 30 June 2015		
4. TITLE AND SUBTITLE ONR R/P FLIP Support				5a. CONTRACT NUMBER		
				5b. GRANT NUMBER N00014-13-1-0361		
				5c. PROGRAM ELEMENT NUMBER		
6. AUTHOR(S) Kupcrman, William A.				5d. PROJECT NUMBER		
				5e. TASK NUMBER		
				5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Marine Physical Laboratory of the Scripps Institution of Oceanography University of California, San Diego 291 Rosecrans Street San Diego, California 92106				8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Office of Naval Research 875 North Randolph Street, ONR 321 Arlington, VA 22203-1995 Attn: Robert T. Schnoor				10. SPONSOR/MONITOR'S ACRONYM(S) ONR		
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)		
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for Public Release; distribution is unlimited						
13. SUPPLEMENTARY NOTES						
14. ABSTRACT The goal of the Marine Physical Laboratory FLIP (Floating Instrument Platform) program is to maintain FLIP fully operational to support Office of Naval Research (ONR) sponsored research programs. Management of FLIP includes providing a trained crew to support all scheduled scientific expeditions and maintaining FLIP and included support systems materially ready for sea. Routine maintenance funded under this proposal includes the repair, overhaul and/or the replacement of existing platform equipment necessary for FLIP to continue to operate safely in support of ONR research. Funding has also covered the cost of a routine dry docking of FLIP in 2013. Dry dockings occur at 3-year intervals.						
15. SUBJECT TERMS Oceanography, FLIP						
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT None	18. NUMBER OF PAGES 2	19a. NAME OF RESPONSIBLE PERSON Anne J. Footer	
a. REPORT Unclassified	b. ABSTRACT Unclassified	c. THIS PAGE Unclassified			19b. TELEPHONE NUMBER (Include area code) 858-534-1802	

20150709071

Operation and Maintenance of the Research Platform FLIP
Dr. William A. Kuperman
Marine Physical Laboratory
Scripps Institution of Oceanography
University of California, San Diego
Mail Code 0238
La Jolla, Ca. 92093-0213
Phone (858) 534-7990, email: wkuperman@ucsd.edu

Award #: N00014-13-1-0361
Period of Award, 01 February 2013 to 30 June 2015

Long-Term Goals

The goal of the Marine Physical Laboratory FLIP (Floating Instrument Platform) program is to maintain FLIP fully operational to support Office of Naval Research (ONR) sponsored research programs. Management of FLIP includes providing a trained crew to support all scheduled scientific expeditions and maintaining FLIP and included support systems materially ready for sea. Routine maintenance funded under this proposal includes the repair, overhaul and/or the replacement of existing platform equipment necessary for FLIP to continue to operate safely in support of ONR research. ONR funding has also covered the cost of an 18 June to 18 July 2013 routine dry docking, of FLIP. Dry dockings occur at a 3-year interval.

On 22 December 2014, management responsibility for FLIP was transferred from the Scripps Marine Physical Laboratory to the Scripps Nimitz Marine Facility.

Description of the research platform FLIP

FLIP is a 355-foot long non-propelled stable platform, a facilities asset of ONR and operated by the Marine Physical Laboratory, Scripps Institution of Oceanography, University of California San Diego. FLIP was launched 22 June 1962, at the Gunderson Brothers Engineering Company, Portland, Oregon. The mission of FLIP is to serve as a stable platform in support of ONR sponsored research. Carrying a research party of 11-people and a crew of 5, FLIP can support research operations up to 30 days and can operate drifting or anchored in deep or shallow water. FLIP operates from the Scripps Nimitz Marine Facility in San Diego, California. Units of the Military Sealift Command and commercial tugs support FLIP for at-sea operations.

Work Accomplished During this Grant Period, February 2013 through June 2015

During the period of this grant, FLIP supported 1 ONR funded research cruise and one commercial funded research program. FLIP spent 24 days at sea. From 18 June to 18 July 2013, FLIP underwent a routine dry dockings in the navy floating dry dock USS ARCO ARDM 5 at the Naval Base Point Loma, San Diego. Routine maintenance and platform preservation was performed by the FLIP crew throughout the award period.

Throughout the award period, FLIP maintained on inport crew of 3-Floating Lab Crewmembers, increasing to 5-crewmembers for the underway periods. Also, the FLIP program manager was funded at 40% for the period February 2013 to 31 December 2014.

On 26 June 2014, during replacement of the Nimitz Marine Facility Pier, FLIP was moved to the Naval Base Point Loma pier at the Submarine Base, San Diego, California.

Research Programs Supported by FLIP

2013

03-06	Teledyne Commercial Research Program Commercial tug support
18 Jun-18 Jul	ONR funded dry docking USS ARCO
5-25 Nov	PI K. Melville, ONR Waves Program. Moored commercial tug and R/V Sproul. USNS Salvor mooring recovery

2014

26 Jun	FLIP moved to Naval Base Point Loma
--------	-------------------------------------

2015

01 Jan to 30 Jun	Moored Naval Base Point Loma
------------------	------------------------------