

Report Documentation Page

Form Approved
OMB No. 0704-0188

Public reporting burden for the 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 this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 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 a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE 30 SEP 2005	2. REPORT TYPE	3. DATES COVERED 00-00-2005 to 00-00-2005			
4. TITLE AND SUBTITLE Environmental Compliance Research for ONR 3120A At-Sea Experiments		5a. CONTRACT NUMBER			
		5b. GRANT NUMBER			
		5c. PROGRAM ELEMENT NUMBER			
6. AUTHOR(S)		5d. PROJECT NUMBER			
		5e. TASK NUMBER			
		5f. WORK UNIT NUMBER			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Marine Acoustics, Inc, Suite 730,4100 Fairfax Drive,Arlington,VA,22203		8. PERFORMING ORGANIZATION REPORT NUMBER			
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)			
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)			
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES code 1 only					
14. ABSTRACT The long-term goal of this effort is to facilitate ONR 321 Ocean Acoustics Program at-sea experiments through the preparation of scientifically rigorous environmental compliance documentation.					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 3	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Environmental Compliance Research for ONR 312OA At-Sea Experiments

William R. Metzger
Marine Acoustics, Inc.
Suite 730
4100 Fairfax Drive
Arlington, VA 22203
phone: (703) 465-8404 fax: (703) 465-8420 email: w.r.metzger@marineacoustics.com

Kathleen Vigness-Raposa
Marine Acoustics, Inc.
809 Aquidneck Ave.
Middletown, RI 02842
phone: (401) 847-7508 fax: (401) 847-7864
email: kathleen.vigness@marineacoustics.com

Contract Number: N0001403D04790001
<http://www.marineacoustics.com/Product1.htm>

LONG-TERM GOALS

The long-term goal of this effort is to facilitate ONR 321 Ocean Acoustics Program at-sea experiments through the preparation of scientifically rigorous environmental compliance documentation.

OBJECTIVES

The objective of this effort is to conduct analyses of the potential impacts of ocean acoustics tests and to prepare environmental documents compliant with applicable Federal and State statutes and DoD/DoN regulations and policies.

APPROACH

For each at-sea experiment, a team of marine biologists, acousticians, and analysts study proposed scenarios, acoustic source properties, forecast acoustic conditions, and marine species populations and vulnerabilities to determine potential impacts and develop mitigation measures.

WORK COMPLETED

For each experiment, the zones of influence for potential acoustic impacts on various marine species were calculated and the estimated number of animals potentially impacted was calculated. By working closely with planners, environmental analysts were able to influence the design of these experiments so that their objectives could be met while potential effects on the marine environment were minimized.

RESULTS

Scientific analysis was conducted, environmental documentation was completed, and approval was obtained for the Joint U.S./Taiwanese Acoustic Studies in the Variability Around the Northern South China Sea/Windy Islands Solitons Experiment (VANS/WISE). Analysis was completed and documents started for the upcoming Makai Experiment at the Shallow Water Training Range (SWTR) of the Pacific Missile Range Facility (PMRF) on the western coast of the island of Kauai in Hawaii and the BEAMER Underwater Observatory Experiment to be conducted at University of Rhode Island (URI) Graduate School of Oceanography (GSO).

IMPACT/APPLICATIONS

The analyses conducted under this effort were required by U.S. law and by DoD, DoN, OPNAV, and ONR regulations.

TRANSITIONS

N/A this research enables experimentation and testing by other projects

RELATED PROJECTS

Environmental compliance documents were prepared in support of the VANS/WISE Experiment, the BEAMER Experiment, the SAX Experiment and the Makai Experiment. These experiments supported multiple Ocean Acoustic projects.

PUBLICATIONS

Analysis of Potential Environmental Effects Resulting from U.S. Participation in the 2005 Acoustic Studies in the Variability Around the Northern South China Sea/Windy Islands Solitons Experiment (VANS/WISE), Technical Report, March 2005.