ANNUAL MISSION ACTIVITIES REPORT 2011

FOR THE

NAVAL SURFACE WARFARE CENTER PANAMA CITY DIVISION (NSWC PCD) STUDY AREA

Submitted To:

Office of Protected Resources National Marine Fisheries Service 1315 East-West Highway Silver Spring, MD 20910-3226

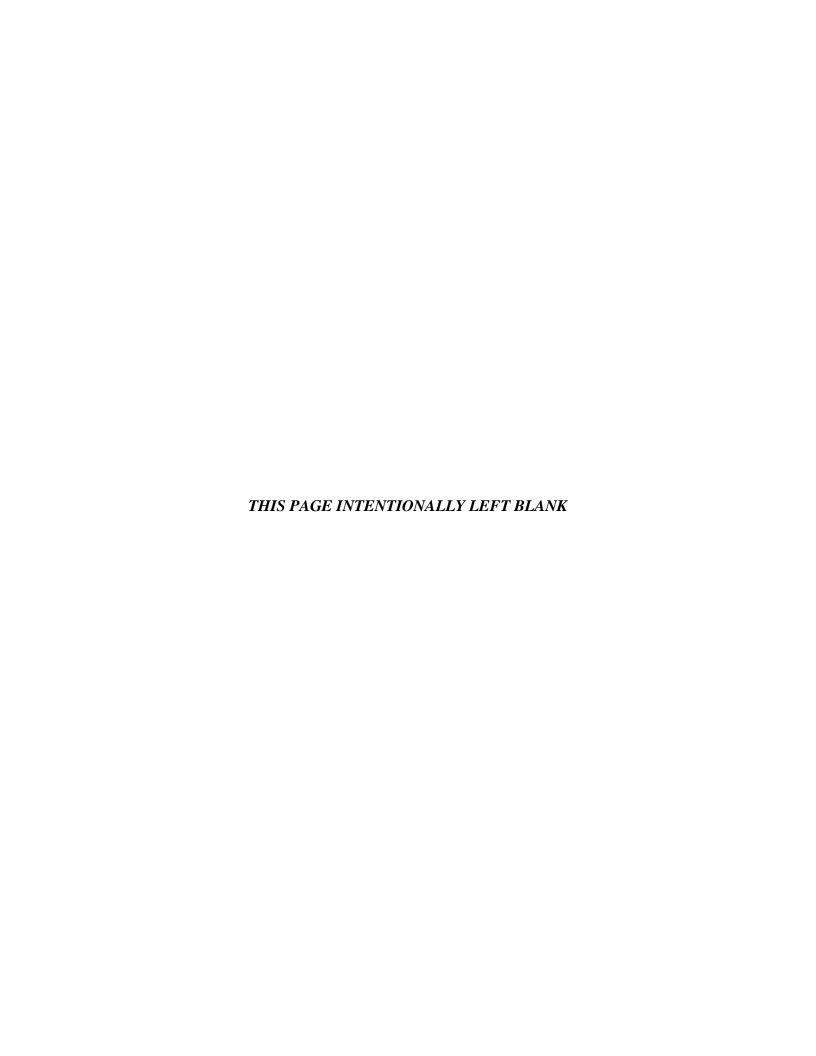
In accordance with:

January 21, 2011 Letter of Authorization for NSWC PCD Mission Activities; 50 CFR Part 218, Subpart S; and the 2011 Annual Biological Opinion for NSWC PCD Mission Activities





September 2011



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Table of Contents

LIST	OF ACRONYMS AND ABBREVIATIONS	ii
I.	INTRODUCTION	1
II.	TEST ACTIVITIES INVOLVING MID-FREQUENCY ACTIVE SONAR (MFAS)/HIGH FREQUENCY ACTIVE SONAR (HFAS)	4
III.	TEST ACTIVITIES INVOLVING EXPLOSIVES	6
IV.	TEST ACTIVITIES INVOLVING PROJECTILES	7
V.	ANNUAL FREQUENCIES AND LOCATIONS FOR NSWC PCD MISSION ACTIVITIES	8
VI.	LIST OF PREPARERS	9
VII.	REFERENCES	10
	List of Tables	
Annua	Total Number of Each Type of MFAS and HFAS Authorized in the 2011 LOA versus Conducted in the NSWC PCD Study Area in Territorial Waters ber Authorized vs. Conducted).	4
Annua	2. Total Number of Each Type of MFAS and HFAS Authorized in the 2011 al LOA versus Conducted in the NSWC PCD Study Area in Non-territorial Waters ber Authorized vs. Conducted).	5
	List of Figures	
Figure	e 1. NSWC PCD Study Area: Gulf of Mexico	2
Figure	2. NSWC PCD Study Area: Nearshore and St. Andrew Bay	3

List of Acronyms and Abbreviations

BE Biological Evaluation

BO Biological Opinion

DON Department of the Navy

DT Developmental Test

EIS Environmental Impact Statement

ESA Endangered Species Act

FQTs Final Qualifications Tests

HFAS High-frequency Active Sonar

hrs Hours

ITS Incidental Take Statement

kHz Kilohertz

LCS Littoral Combat Ship

LOA Letter of Authorization

LRIP Low-rate Initial Production

MFAS Mid-frequency Active Sonar

MMPA Marine Mammal Protection Act

NMFS National Marine Fisheries Service

NSWC PCD Naval Surface Warfare Center Panama City Division

OEIS Overseas Environmental Impact Statement

OT Operational Test

RDT&E Research, Development, Test, and Evaluation

TECHEVAL Technical Evaluation

U.S. United States

I. INTRODUCTION

The United States (U.S.) Navy prepared this Annual Mission Activities Report covering the period from August 2, 2010 to August 1, 2011 pursuant to the National Marine Fisheries Service (NMFS) Marine Mammal Protection Act (MMPA) regulations (NMFS, 2010a) for the Naval Surface Warfare Center Panama City Division (NSWC PCD) Study Area (50 Code of Federal Regulations [C.F.R.] Part 218, Subpart S). The report also provides the information required by NMFS's Biological Opinion (BO) on NSWC PCD Mission Activities (NMFS, 2010b, 2011a) issued pursuant to the Endangered Species Act (ESA). The scope of NMFS's BO includes the same research, development, test, and evaluation (RDT&E) activities using sonar systems, explosives, and projectiles as governed by the above MMPA regulations. Figures 1 and 2 show the geographic extent of the NSWC PCD Study Area.

In the MMPA regulations (NMFS, 2010a [50 C.F.R. § 218.184]) and the Letter of Authorization (LOA) for NSWC PCD Mission Activities (NMFS, 2010a [Section 7], 2011b), the following reporting requirements were specified and are presented in Sections II-IV of this report:

- 1) Test Activities Involving Mid-Frequency Active Sonar (MFAS)/High Frequency Active Sonar (HFAS).
- 2) Test Activities Involving Underwater Explosive Detonations.
- 3) Test Activities Involving Projectile Firing.

In NMFS's BO (NMFS, 2011a [page 153), the following *Reasonable and Prudent Measures* listed in the Incidental Take Statement (ITS) were specified and are addressed in Section V of this report:

• "The U.S. Navy shall submit reports that identify the general location, timing, number of sonar hours, and other aspects of the RDT&E activities the U.S. Navy plans to conduct at NSWC PCD in Panama City, Florida, over the twelve-month period between January 2011 and January 2012."

The information contained in this report represents the best practical data collection as of August 1, 2011. The operational data are collected through the NSWC PCD Environmental Review Process, which is detailed in Chapter 5 *Mitigation and Protective Measures* of the NSWC PCD Mission Activities Environmental Impact Statement (EIS)/Overseas Environmental Impact Statement (OEIS) (DON, 2009). The data provided in the following tables indicates that the U.S. Navy is not exceeding the average annual allotment of authorized test events as of August 1, 2011. Future activities conducted under the NSWC PCD Mission Activities LOA will continue to ensure that the 5-year total allotment is not exceeded. U.S. Navy test events are variable within any given year based on the evolving nature of RDT&E test plans and the current status of operating systems undergoing RDT&E, as well as scheduling, budgeting, and environmental conditions. Therefore, the data on the amount of activities conducted in the NSWC PCD Study Area may vary annually, potentially resulting in higher or lower amounts of reported NSWC PCD RDT&E mission activities in future annual mission activity reports.

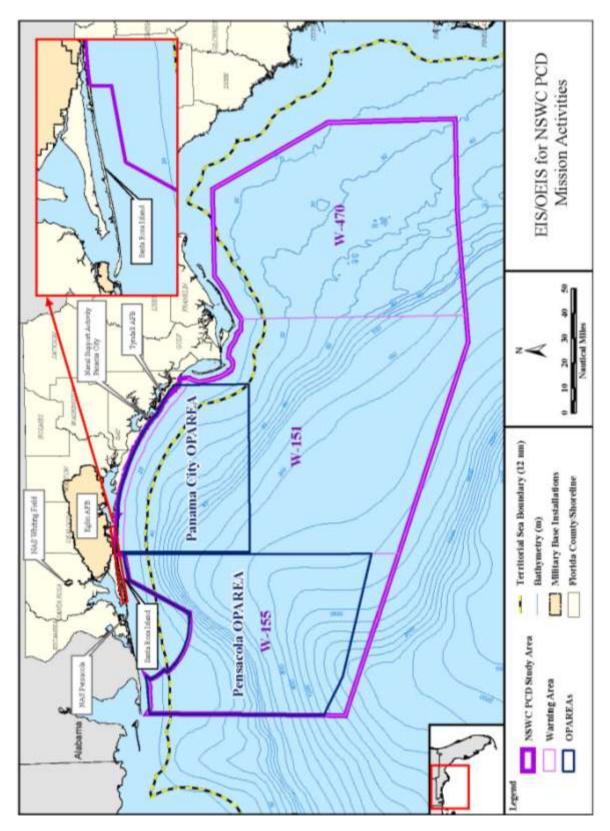


Figure 1. NSWC PCD Study Area: Gulf of Mexico.

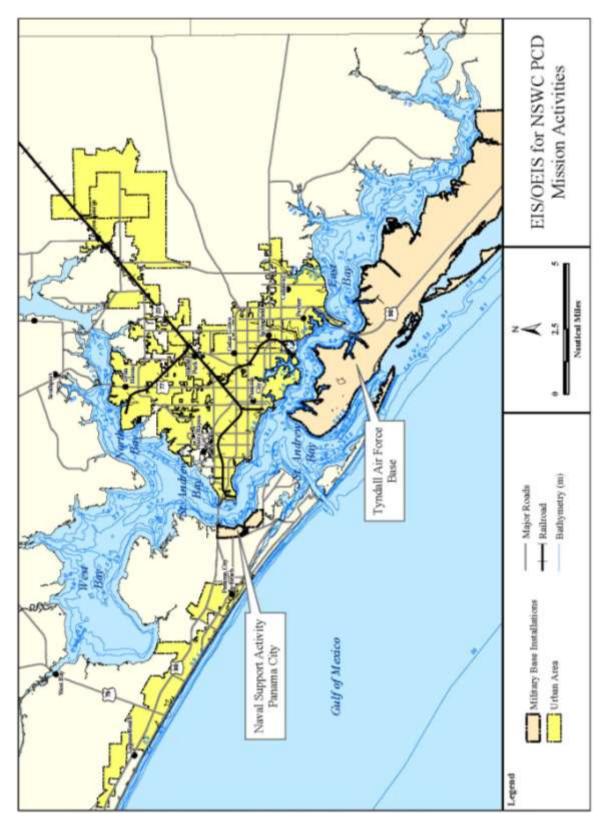


Figure 2. NSWC PCD Study Area: Nearshore and St. Andrew Bay.

II. TEST ACTIVITIES INVOLVING MID-FREQUENCY ACTIVE SONAR (MFAS)/HIGH FREQUENCY ACTIVE SONAR (HFAS)

Tables 1 and 2 below provide a summary of the use of MFAS and HFAS in the NSWC PCD Study Area. During this time period, NSWC PCD conducted 409.27 hours (hrs) of sonar testing, including 382.27 hours in territorial waters (see Table 1) and 27 hours in non-territorial waters (see Table 2).

Table 1. Total Hours of Each Type of MFAS and HFAS Authorized in the 2011 Annual LOA versus Conducted in the NSWC PCD Study Area in Territorial Waters (Hours Authorized vs. Conducted).

Sonar System	Hours Authorized	Hours Conducted
AN/SQS-53/56 Kingfisher	3	0
Sub-bottom Profiler (2-9 kilohertz [kHz])	21	0
REMUS SAS-LF	12	1
REMUS Modem	25	20.8
Sub-bottom Profiler (2-16 kHz)	24	8
AN/SQQ-32	30	0
REMUS-SAS-LF	20	17.8
SAS-LF	35	34
AN/WLD-1RMS-ACL	33.5	0
BPAUV Sidescan	25	9
TVSS	15	0
F84Y	15	0
BPAUV Sidescan	25	0
REMUS-SAS-HF	10	10
SAS-HF	11.5	8
AN/AQS-20*	545	269.57
AN/WLD-11 RMS Navigation	15	4
BPAUV Sidescan	30	0.1

^{*} Source: NMFS, 2011b

During these sonar test events, the U.S. Navy employed the appropriate mitigation measures as outlined in the NSWC PCD Mission Activities EIS/OEIS (DON, 2009).

Table 2. Total Hours of Each Type of MFAS and HFAS Authorized in the 2011 Annual LOA versus Conducted in the NSWC PCD Study Area in Non-territorial Waters (Hours Authorized vs. Conducted).

Sonar System	Hours Authorized	Hours Conducted
AN/SQS-53/56 Kingfisher	1	0
Sub-bottom Profiler (2-9 kHz)	1	0
REMUS Modem	12	0
Sub-bottom Profiler (2-16 kHz)	1	0
AN/SQQ-32	1	0
SAS-LF	15	0
AN/WLD-1RMS-ACL	5	0
BPAUV Sidescan	38	8
TVSS	16.5	8
F84Y	15	0
REMUS-SAS-HF	25	0
SAS-HF	15	0
AN/SQS-20*	15	11
BPAUV Sidescan	25	0

* Source: NMFS, 2011b

III. TEST ACTIVITIES INVOLVING EXPLOSIVES

NSWC PCD did not conduct any RDT&E mission activities involving explosives during the reporting period.

IV. TEST ACTIVITIES INVOLVING PROJECTILES

NSWC PCD did not conduct any RDT&E mission activities involving projectile firing during the reporting period.

V. ANNUAL FREQUENCIES AND LOCATIONS FOR NSWC PCD MISSION ACTIVITIES

U.S. Navy RDT&E mission descriptions, frequencies, and locations for the NSWC PCD Study Area have not changed from those described in the U.S. Navy's Biological Evaluation (BE) for NSWC PCD Mission Activities (DON, 2008), and the U.S. Navy's Final EIS/OEIS for NSWC PCD Mission Activities (DON, 2009). RDT&E mission activities conducted in the NSWC PCD Study Area have not changed since NMFS issued the annual BOs (NMFS, 2010b, 2011a). The type, manner, and frequency of RDT&E activities in the NSWC PCD Study Area for the next 12 months is described in the U.S. Navy's BE (DON, 2008) and not repeated in this report.

September 2011

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- NMFS. 2011a. Biological Opinion on the Permits Division's Proposal to Issue a Letter of Authorization for the U.S. Navy to "Take" Marine Mammals Incidental to Research, Development, Test, and Evaluation Activities at the Naval Surface Warfare Center in Panama City, Florida, from January 2011 through January 2012. Issued January 7, 2011.
- NMFS. 2011b. Letter of Authorization to Take Marine Mammals Incidental to U.S. Naval Surface Warfare Center Panama City Division Mission Activities. Issued January 13, 2011.