SR-21-008

Range Commanders Council
Underwater Systems Group

DATABASE OF UNDERWATER RANGES AND SYSTEMS LOCATIONS

ABERDEEN TEST CENTER
DUGWAY PROVING GROUND
ELECTRONIC PROVING GROUND
REAGAN TEST SITE
REDSTONE TEST CENTER
WHITE SANDS TEST CENTER
YUMA PROVING GROUND

NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION PATUXENT RIVER
NAVAL AIR WARFARE CENTER WEAPONS DIVISION CHINA LAKE
NAVAL AIR WARFARE CENTER WEAPONS DIVISION POINT MUGU
NAVAL SURFACE WARFARE CENTER DAHLGREN DIVISION
NAVAL UNDERSEA WARFARE CENTER DIVISION KEYPORT
NAVAL UNDERSEA WARFARE CENTER DIVISION NEWPORT
PACIFIC MISSILE RANGE FACILITY

96th TEST WING
412th TEST WING
ARNOLD ENGINEERING DEVELOPMENT COMPLEX

SPACE LAUNCH DELTA 30
SPACE LAUNCH DELTA 45

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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DATABASE OF UNDERWATER RANGES AND SYSTEMS LOCATIONS

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UNDERWATER SYSTEMS GROUP

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Preface

This special report presents the results of efforts by the Underwater Systems Group of the Range Commanders Council. The work was performed under Task US-024, *Update US-019 Mapping of DoD Underwater Test and Training Ranges and Systems*. This task involved updating and expanding the efforts started in Task US-019, Mapping of USG Members' Underwater Ranges and Systems. This effort resulted in a comprehensive review and update of the unclassified database of undersea test and training systems (including acoustic ranges and cables). The database information is useful to government and commercial activities for planning their activities in order to avoid conflict with, or damage to, equipment at the underwater ranges. The procedures for obtaining the information is described herein.

For questions regarding this special report, contact the RCC Secretariat:

Secretariat, Range Commanders Council
ATTN: TEWS-TDR
1510 Headquarters Avenue
White Sands Missile Range, New Mexico 88002-5110
Telephone: Com (575) 678-1107 DSN 258-1107
Email: rcc-feedback@trmc.osd.mil

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Acronyms

AUTEC	Atlantic Undersea Test and Evaluation Center
NAVFACENGCOM	Naval Facilities Engineering Command
FOCUS	Fiber Optic Cable Under the Sea
FOSC	Fiber Optic Submarine Cable
GIS	Geographical Information System
JSWTR	Jacksonville Shallow Water Training Range
NSCPO	Navy Seafloor Cable Protection Office
NUWCDIVKPT	Naval Undersea Warfare Center Division Keyport
NUWCDIVNPT	Naval Undersea Warfare Center Division Newport
PMRF	Pacific Missile Range Facility
POC	point of contact
RCC	Range Commanders Council
SCIUR	San Clemente Island Underwater Range
SCTTR	Southern California Tactical Training Range
SEAFAC	Southeast Alaska Acoustic Measurement Facility
SFOMF	South Florida Ocean Measurement Facility
SSRNM	Ships' Surface Radiated Noise Measurement
USG	Underwater Systems Group

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Database of Underwater Ranges and Systems Locations

1. Database Creation: Undersea Test and Training Systems

The Underwater Systems Group (USG) was very successful in developing data, maps, and charts that were incorporated into a centralized, unclassified database that clearly identifies the locations of undersea test and training systems. The key benefit of the database is providing information on where not to conduct seafloor activities such as trenching, laying telecom cables, bottom fishing, and dragging anchors. The charts and information in the database will be used by fishermen, telecommunication cable installers, and undersea pipeline installers to avoid entangling their systems with those owned and operated by the underwater ranges. The USG members have been encouraging awareness and use of the database so that government and commercial organizations avoid conducting seafloor activities that may interfere with or damage range cables and/or systems.

2. Database Management

The database is managed by the Navy Seafloor Cable Protection Office (NSCPO). Task US-024 involved coordination between the USG and the NSCPO, which updated the database with the data provided by the ranges.

3. Database Maintenance

To keep the database up to date, the RCC range representatives need only to coordinate additions and/or changes with the following NSCPO point of contact (POC).

Ms. Catherine Creese
Naval Facilities Engineering and Expeditionary Warfare Center
720 Kennon St SE
Washington, DC 20374
Telephone: (202) 433-5325
Email: catherine.s.creese.civ@us.navy.mil

4. Obtaining Database Information

All data provided to NSCPO will be treated as proprietary. Database access will be strictly controlled and access to maps and charts can only be accomplished by either of the following two ways.

4.1 Contacting the Individual Ranges

Contact the range's representative to the USG.

4.2 Contacting the NSCPO

Contact NSCPO using the information above. The NSCPO will either refer the requestor to the individual range POC or provide the range boundaries according to the instructions given to the NSCPO by the range POC. In order to ensure reduced conflicts and minimize costs of re-engineering, NSCPO requests that system planners and installation contractors contact NSCPO early in the planning process.

The NSCPO contact information is as follows.

Naval Facilities Engineering and Expeditionary Warfare Center
Naval Seafloor Cable Protection Office (NSCPO)
720 Kennon St SE
Washington Navy Yard, DC 20374-5065 USA
Telephone: (202) 433-5325 DSN 258
Email: nscpo@navy.mil

5. Underwater Systems Survey and Recorded Boundaries

5.1 Survey

Task US-024 involved review of the existing data holdings, solicitation of changes from USG member and associated members, collection of data and metadata, and updates to the data holdings.

5.2 Boundaries

The boundary data was collected from USG members in a variety of formats. The NSCPO used the data to create or revise boundaries and used the boundary data to populate their Geographical Information System (GIS) database. The data was also used to update or create chartlets on nautical charts showing the boundaries both graphically and as a listing of points and showing the contacts for the depicted range. The participation of USG member and associate member ranges is shown in Table 1.

Table 1. Boundaries for Underwater Systems and Ranges

Range/Command	Status
AUTEC	Revised Boundaries
Chesapeake Bay FOSC	Revised Boundaries
Coastal Test Range	No Change
FOCUS I and II	Revised Boundaries
JSWTR Jacksonville	Provided Boundaries
NUWC Division Keyport	No Change
NUWC Division Newport	No Change
PMRF	Revised Boundaries
SCIUR	Revised Boundaries
SCTTR	Revised Boundaries
SEAFAC	Provided Boundaries
SFOMF	Provided Boundaries
SSRNM Hawaii	Provided Boundaries

This table shows the status of boundary data input to NSCPO from USG member and associate member ranges since the previous publication.

6. Distribution

The collection of charts, boundary waypoints, and POCs will be provided via CD by NSCPO to each USG representative at the next in-person USG meeting. The files for individual ranges will also be provided to each representative via email.

*** * * END OF REPORT * * ***