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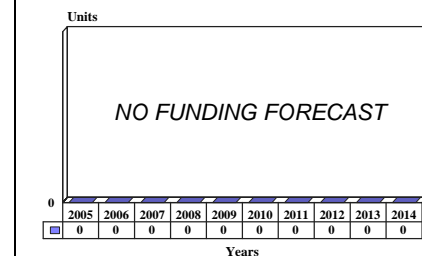
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Point Mugu Sea Range - Archived 9/2006

Outlook

- Detailed information regarding the Point Mugu Sea Range is sparse
- Forecast International will archive this report in September 2006
- Should specific information concerning the Point Mugu Sea Range become available, Forecast International will reissue this report

10 Year Unit Production Forecast
2005 - 2014



Orientation

Description. Point Mugu Sea Range is the United States Navy's principal sea range for the testing and evaluation of tactical and cruise weapons. The range includes 36,000 square miles of sea, restricted airspace, and heavily instrumented offshore islands. Point Mugu Sea Range supports the U.S. Department of Defense's most complex training operations. The range is maintained by the U.S. Naval Air Warfare Center, Weapons Division.

Sponsor

Naval Air Warfare Center, Weapons Division
(NAVAIRWARCENWPNDIV)
521 Ninth Street
Point Mugu, California (CA) 93042-5001
Tel: + 1 (805) 989-8801

Status. Operational, with ongoing maintenance and modernization.

Total Produced. Not applicable.

Application. Testing and evaluating U.S. Navy tactical and cruise weapons.

Price Range. Not applicable.

Contractors

Contractors undisclosed, RDT+E (Operation and Maintenance)

Technical Data

The Point Mugu Sea Range is composed of 36,000 square nautical miles of highly instrument-controlled operational air and sea surface areas. It supports the U.S. DoD's most complex test and training operations conducted in a realistic marine environment.

The Sea Range can support several levels of testing and training. These vary from routine one-on-one

operations to complex multiparticipant, multitarget operations in dense electronic combat environments (including multiservice, multinational test and evaluation and training exercises). Other activities include full-battle-group Fleet exercises involving aircraft, surface ships, and submarines against a variety of targets and threats, as well as operations involving T&E laboratory simulations of weapons and target

systems. All operations are conducted in realistic and controlled environments.

The Sea Range provides a full set of instrumentation installed on the main base sites and on the offshore islands. These instruments, which monitor and supply vital data on all aircraft, ships, airborne platforms, and target systems during Sea Range operations, include radar, photo-optics, video, data processing and displays, surveillance, telemetry, and range communications. Point Mugu has overlapping range instrumentation coverage (metric track, surveillance, telemetry, communications and command control) capabilities. The following are some components of the Sea Range:

San Nicolas Island (SNI). SNI is the foundation of the Sea Range because of its land mass and the depth of its surrounding waters. The main support facilities include a 10,000-foot runway, housing, an air terminal, a power plant, a fuel farm, and other base support functions. A project hangar, as well as launch and ordnance facilities, is also located on SNI. SNI is ideal for providing littoral warfare training, including tri-service and theater warfare exercises.

Santa Cruz Island (SCI). SCI is located approximately 25 nautical miles west of Point Mugu. It is used as a base for a microwave relay station serving the Sea Range and Vandenberg Air Force Base (VAFB). Instrumentation consists of meteorological data collection, secure VHF/UHF radio communications and data transmission, microwave relay to/from VAFB, Laguna Peak, and SNI, and surface surveillance radar coverage of the Sea Range.

Battle Management Interoperability Center (BMIC). The BMIC located at Point Mugu can create a theater-

level environment by linking with synthetic applications (live, constructive, and virtual) via the Defense Simulation Internet (DSI). This allows the BMIC to interconnect and interact with the several DoD facilities that use the DSI.

Battle Management Interoperability Test and Evaluation/Training Exercise (BITE). BITE provides opportunities for combat/weapons systems and personnel to immerse into realistic joint warfare environments. The Fleet uses the Sea Range to conduct training exercises where live firings are involved. The Sea Range acts as a requirements network in BITE, linking various users and their individual test and training requirements into a single evolution.

Sea Range Data Processing Center (SRDPC). The SRDPC is the hub for operational range data activity. Data from range instrumentation systems flow to the SRDPC in real time. There, it is processed, sent to operations control rooms and user telemetry rooms for operational display, and recorded for later analysis. SRDPC provides and applies real-time processing software to synchronize the data, as well as to fill user-specified real-time analysis.

Navy Calibration Laboratories. The Naval Air Warfare Center Weapons Division Metrology Branch at Point Mugu is responsible for the calibration of all on-site test, measurement, and diagnostic equipment (TMDE). It occupies 22,580 square feet of floor space within the Range facilities complex, and is filled with state-of-the-art standards used in the calibration of government-owned equipment. Calibration is performed to detect and correct any variation from required performance specifications.

Variants/Upgrades

The Point Mugu Sea Range is constantly being upgraded to test and evaluate new weapons and operations.

Program Review

Background. The Point Mugu Test Range has been providing range support for test and evaluation (T&E) for many years. The T&E activities comprise the U.S. Navy's portion of the U.S. Department of Defense's Major Range and Test Facility Base (MRTFB).

Recent Activity. Current information regarding the Point Mugu Sea Range is sparse.

Funding

The U.S. Department of Defense has not created a program element that exclusively funds the Point Mugu Sea Range. As such, the U.S. DoD commingles most of its funding for the Point Mugu Sea Range with that of numerous other U.S. Department of Defense program elements.

Recent Contracts

Little contract information is available that can be directly attributed to work performed by the Point Mugu Sea Range. No recent contracts have been identified.

Timetable

<u>Year</u>	<u>Major Development</u>
1995	BMIC participates in JETTA and JWID projects
1996	Flight-hour costs to maintain basic pilot proficiency in aircraft used to support the MRTFB mission
1997	Navy proposes to expand testing and training activities on the Point Mugu Sea Range
1998	Continued support for priority equipment calibration, materials, supplies, technical equipment, and spare parts for core range and target instrumentation and equipment systems
1999	Continued maintenance of R-2508 Air Space Control System and DC-130 target air launch capabilities
2000	Study concludes that proposed actions on the Point Mugu Sea Range would have no significant environmental impacts
2003	Air pollution meteorology studies conducted at Point Mugu

Worldwide Distribution

The Point Mugu Sea Range is a **U.S. Navy** and **U.S. Department of Defense** program.

Forecast Rationale

Point Mugu Sea Range is used by the United States Navy to test and evaluate tactical and cruise weapons. Point Mugu encompasses 36,000 square miles of sea, restricted airspace, and instrumented offshore islands. The U.S. Naval Air Warfare Center, Weapons Division, maintains the Point Mugu Sea Range.

Given the lack of detailed information regarding the Point Mugu Sea Range, Forecast International will archive this report in September 2006. Should specific information become available, the report will be reissued.

Ten-Year Outlook

This report will be archived in September 2006. As such, Forecast International has **omitted** the Ten-Year Outlook chart.

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