

U.S. Navy Northwest Training & Testing (NWTT)

Update for:

Olympic Coast National Marine Sanctuary (OCNMS) Advisory Council

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NWTT Environmental Planning Projects

- Support sustainable Navy at-sea training & testing requirements in the Northwest into the foreseeable future:
 - All Navy at-sea range complexes complete similar analyses & permitting
- NWTT Environmental Impact Statement (EIS):
 - In accordance with National Environmental Policy Act (NEPA)
 - Projects address other regulatory requirements, including <u>5-year reauthorizations</u> under Marine Mammal Protection Act (MMPA) and Endangered Species Act (ESA), and National Marine Sanctuaries Act
- NWTT EIS Project History:
 - Phase 1 EISs for Northwest Training Range Complex (NWTRC) and NUWC Keyport Range Complex Extension were completed in 2010 & 2011
 - Phase 2 combined EISs into NWTT EIS which was completed with Record of Decision in November 2016
 - Phase 3 NWTT EIS planned for kick off in summer 2017
- In addition to renewing 5-year authorizations, updated EISs address adjustments to Navy activities; increases/decreases and additions/deletions based on changing mission requirements

Phase 2 NWTT EIS Study Area

- 1. Inland Waters Area
- 2. Offshore Area
- 3. Southeast Alaska Acoustic Measurement Facility
- * Expected to be the same for Phase 3 EIS





NWTT Activities in OCNMS

- Only activities authorized by OCNMS regulations:
 - Training with various sonar systems
 - Testing activities within Quinault Range Site
 - Aircraft overflights in Warning Area 237 (W-237) and Olympic Military Operations Areas above authorized flight levels
 - No use of explosives occurs in OCNMS
- Location of OCNMS is identified on Navy scheduling program & other planning tools
- Most Navy activities occur outside OCNMS; less than 2% of training and 15% of testing <u>may</u> occur in OCNMS





NWTT EIS – Phases 2 & 3

- Phase 2 NWTT EIS documents available at <u>nwtteis.com</u>, including:
 - National Marine Fisheries Service (NMFS) MMPA Letter of Authorization
 - NMFS MMPA Final Rule
 - NMFS Biological Opinion (ESA authorizations)
 - U.S. Fish and Wildlife Service Biological Opinion
 - National Marine Sanctuaries Act Section 304(d) consultation documents:
 - Sanctuary Resource Statement for potential impacts on OCNMS resources (combined consultation and analysis by Navy & NMFS)
 - OCNMS Recommended Alternatives
 - Navy & NMFS responses to Recommended Alternatives
- Phase 3 NWTT EIS concept:
 - Same geographic area as Phase 2 EIS
 - Similar activities analyzed with adjustments for new mission requirements
 - Supplemental EIS being considered
- Phase 3 EIS schedule:
 - Notice of Intent & scoping period ~ summer 2017
 - Draft EIS release & comment period ~ early 2019
 - Final EIS release ~ summer 2020 (current authorizations expire in Nov 2020)



- To better understand the marine environment in which we operate, the Navy sponsors research and partners with universities, research institutions, and laboratories around the world
- Tied to Navy training & testing MMPA permits is our Integrated Comprehensive Monitoring Program:
 - Overarching framework for Navy monitoring program (Atlantic & Pacific)
 - Scientific Advisory Group: Team of experts in marine mammal research, ecology, acoustics, and monitoring
 - Guides investment by establishing top-level goals for use in prioritizing projects
 - Adaptive management involves Navy, NMFS and other agencies/organizations
 - Add to the overall scientific knowledge base of marine species
 - Monitor and assess the effects of Navy activities on marine species



Studies in the Northwest

Offshore Area:

- Passive Acoustic Monitoring (2004-2017):
 - NOAA, Northwest Fisheries Science Center (2014-2017)
 - Scripps Institution of Oceanography (2004-2015)
- Satellite tag (short & long-term) tracking (2010-2017):
 - Southern Resident killer whales (NW Fisheries Science Center, NMFS)
 - Offshore killer whales (Cascadia Research Collective)
 - Blue whales (Oregon State University)
 - Fin whales (Oregon State University, Cascadia Research Collective)
 - Humpback whales (Oregon State University, Cascadia Research Collective)
 - Gray whales (Cascadia Research Collective & Oregon State University)
 - Sea Lion Tagging (NMFS & WDFW)
- Distribution, Abundance, Seasonality & Density (2016-2017):
 - Chinook Salmon Modeling Distribution Offshore (NWFSC)
 - Marbled Murrelet Offshore Surveys



Studies in the Northwest

Inland Waters Area:

- Distribution, Abundance, Seasonality, & Density (2012-2017):
 - Aerial Surveys for Marine Mammals (HDR & Smultea Environmental Sciences)
 - Harbor Seal Density and Abundance in Hood Canal (Clymene Enterprises, National Marine Mammal Laboratory, WDFW, Smultea Environmental Sciences, HDR, SAIC, & Navy)
 - Sea Lion Tagging (NMFS & WDFW)
 - Seal & Sea Lion Regional Haulout Aerial Surveys (WDFW)
 - Seal & Sea Lion Haulout Counts at 4 Navy bases (Navy)





Blue & Fin Whale Satellite Tagging

Performer: Oregon State University (OSU)

- Determine whale distribution and habitat use through deployment of location satellite tags
- Determine whale behavior changes by ٠ deploying Advanced Dive Behavior tags



Conduct historical analysis comparing previous tag data (1994-2009) with 2014-2015





Southern Resident Killer Whales (SRKW)

Performer: Northwest Fisheries Science Center (NWFSC)



- Determine the spatial winter distribution of SRKW in the offshore (coastal) waters
- NWFSC will use existing passive acoustic data and satellite tag tracks to model & map seasonal and annual probability of occurrence in offshore waters, including those in OCNMS





Chinook Salmon

Performer: Northwest Fisheries Science Center (NWFSC)

- Model the seasonal distribution of Chinook salmon stocks in coastal waters (Southeast Alaska to California)
- Overlaps with SRKW range
- Address the variability between runs (spring Chinook vs fall Chinook)
- Multi-year (integrate 15 years of data)
- Address seasonality in seasons not yet studied (winter and spring), which are important for SRKW





Tracking Sea Lions with Satellite Tags

Performer: Alaska Fisheries Science Center (NMFS) & Washington State Department of Fish & Wildlife

Inland & Offshore Coastal Waters:

- Determine time hauled out vs in water
- Determine foraging locations & dive depths
- Determine distribution offshore



Photo courtesy of Steve Jeffries, Washington Department of Fish & Wildlife





- Supplements existing Puget Sound marbled murrelet density surveys (adds spring surveys to existing winter surveys)
- Adds offshore distribution/density survey as part of leveraged project







Navy Monitoring Reports

Annual monitoring reports and associated technical reports posted to U.S. Navy's public Monitoring website:

http://www.navymarinespeciesmonitoring.us/



Under "Reading Room", then under "Pacific Documents", then under "NW Training Range Complex"

2015 U.S. Navy Annual Marine Species Monitoring Report for the Pacific: A Multi-Range Complex Monitoring Report for Hawaii-Southern California Training and Testing (HSTT), Mariana Islands Training and Testing (MITT). Northwest Training and Testing (NWTT). and the Gulf of Alaska Temporary Maritime Activities Area (GOA TMAA) Prepared For and Submitted To National Marine Fisherles Service Office of Protected Resources Prepared By Department of the Navy In accordance with 50 CFR § 218.75(e), § 218.95(e), § 218.145(f), and § 218.125(d) March 2016



Questions & Discussion?

