ACRONYMS AND ABBREVIATIONS

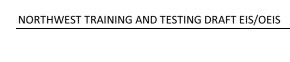
(r _o)	charge radius	dB re 1 μ	· · · · · · · · · · · · · · · · · · ·
μg	micrograms(s)	dBA	A-weighted decibels
μg/g	microgram(s)/gram	DBRC	Dabob Bay Range Complex
μg/L	microgram(s) per liter	DDG	Destroyer
μm	micrometer(s)	DDT	$\ \ dichlorodiphen ly trichlore than e$
μPa	micropascal(s)	DEIS	Draft Environmental Impact Statement
μPa ² -s	micropascal squared second(s)	DICASS	Directional Command Activated Sonobuoy
0	degrees	DLCD	Department of Land Conservation and
AASP	Acoustic Augmentation Support Program		Development
AAW	Anti-Air Warfare	DOC	Department of Commerce
ac.	acre(s)	DoD	Department of Defense
ACM	Air Combat Maneuver		shington State) Department of Ecology
ACMP	Alaska Coastal Management Program	DOI	Department of Interior
ASUW	Anti-Surface Warfare	DPS	Distinct Population Segments
ASW	Anti-Submarine Warfare	D_Rm	depth of receiver (animal) in meters
ATBA	Area to Be Avoided	DS	Doppler Sonar
ATCAA	Air Traffic Control Assigned Airspace	DT	Developmental Testing
ATN	Aid to Navigation	EEZ	Exclusive Economic Zone
AUTEC	Atlantic Undersea Test and Evaluation	EFH	Essential Fish Habitat
	Center	EFHA	Essential Fish Habitat Assessment
AUV	Autonomous Underwater Vehicle	EIS	Environmental Impact Statement
AWOIS	Automated Wreck and Obstruction	EL	Exposure Level
	Information System	EMATT	Expendable Mobile Anti-Submarine
BA	Biological Assessment		Warfare Training Target
BDU	Bomb Dummy Unit	EO	Executive Order
BOMBE		EOD	Explosive Ordnance Disposal
BRF	Behavioral Risk Function	ERL	effects range-low
BTS	Bureau of Transportation Statistics	ERM	effects range-median
С	Celsius	ESA	Endangered Species Act
CAA	Clean Air Act	EW	Electronic Warfare
CATM	Captive Air Training Missile	F	Fahrenheit
CCC	California Coastal Commission	FEIS	Final Environmental Impact Statement
CEE	Controlled Exposure Experiment	FFG	Frigate
	High-Frequency Cetacean Weighting Function	FL	flight level
Ce _{LF}	Low Frequency Cetacean Weighting Function	FR	Federal Register
Ce _{MF}	Mid-Frequency Cetacean Weighting Function	FRR&DP	Fleet Readiness Research and
CEQ	Council on Environmental Quality		Development Program
C.F.R.	Code of Federal Regulations	ft.	foot/feet
CG	Cruiser	ft. ²	square foot/feet
CH ₄	methane	FTCA	Federal Tort Claims Act
cm	centimeter(s)	g	gram(s)
CMP	Coastal Management Program	Ğ	gauss
CO	carbon monoxide	gal.	gallon(s)
CO ₂	carbon dioxide	gC	gram(s) of carbon
CO ₂ Eq	carbon dioxide equivalent	GI	gastrointestinal
CV	Coefficient of Variation	GUNEX	Gunnery Exercise
CWA	Clean Water Act	h	depth
CZMA	Coastal Zone Management Act	ha	hectare(s)
CZMP	Coastal Zone Management Program	HARM	High Speed Anti-Radiation Missile
dB	decibel(s)	HDC (1)	High Duty Cycle
u D	accibei(3)	(-)	

ACRO-i

HDC (2)	Harbor Defense Command	NBK	Naval Base Kitsap
HF	high-frequency	NEPA	National Environmental Policy Act
Hz	Hertz	NEPM	Non-explosive Practice Munition
IEER	Improved Extended Echo Ranging	NEW	Net Explosive Weight
i-ENCON	Incentivized Energy Conservation	NHPA	National Historic Preservation Act
IFR	Instrument Flight Rules	NKB	Naval Base Kitsap
in.	inch(es)	nm	nautical mile(s)
ISR	Intelligence, Surveillance, Reconnaissance	nm²	square nautical mile(s)
kg	kilogram(s)	NMFS	National Marine Fisheries Service
kHz	kilohertz	NMML	National Marine Mammal Lab
km	kilometer(s)	NMSA	National Marine Sanctuaries Act
km ²	square kilometer(s)	NO	nitric oxide
L	liter(s)	NO_2	nitrogen dioxide
lb.	pound(s)	NO _x	nitrogen oxides
LF	low-frequency	NOAA	National Oceanic and
Lmax	maximum peak sound level	110701	Atmospheric Administration
LOA	Letter of Authorization	NOTAM	
m	meter(s)	NRHP	National Register of Historic Places
m ²	square meter(s)	NTM	Notice to Mariners
m ³	cubic meter(s)	NSWCCI	
M	Acoustic Modems	NOVEC	Carderock Division
MAC	Multistatic Active Coherent	NUWC	Naval Undersea Warfare Center
MBTA	Migratory Bird Treaty Act	NWTRC	Northwest Training Range Complex
MF	mid-frequency	NWTT	Northwest Training and Testing
MFA	Mid-Frequency Active	O ₃	ozone
MFAS	Mid-Frequency Active Sonar	OBIS-SE	
mg	milligram(s)	0013 32	System-Spatial Ecological Analysis
mg/L	milligram(s) per liter		of Megavertebrate
mg chl/m ³		OCE	Officer Conducting the Exercise
1116 0111/111	meter	OCMP	Oregon Coastal Management Program
mi.	mile(s)	OCNMS	Olympic Coast National Marine Sanctuary
mi. ²	square mile(s)	OEIS	Overseas Environmental Impact Statement
MINIROV	Miniature Remotely Operated Vehicle	OPAREA	
ml	milliliter(s)	OT	Operational Testing
mm	millimeter(s)	oz.	ounce(s)
MMPA	Marine Mammal Protection Act	P P	Pinger
MOA	Military Operations Area	Pa	Pascal
MPA (1)	Maritime Patrol Aircraft	Pb	lead
MPA (2)	Marine Protected Area	Pa-s	Pascal seconds
msec	millisecond(s)	PACNW	Pacific Northwest
MSL	Mean Sea Level	PCAD	Population Consequences of Acoustic
MW	Mine Warfare		Disturbance
MIW	Mine Warfare	PCBs	polychlorinated biphenyls
N	north	PCE	Primary Constituent Element
N ₂ O	nitrous oxide	PM	particulate matter
N/A	not applicable	PM ₁₀	PM ≤10 microns in diameter
NAEMO	Navy Acoustic Effects Model	PM _{2.5}	PM ≤2.5 microns in diameter
NAS	Naval Air Station	PMRF	Pacific Missile Range Facility
NASWI	Naval Air Station Whidbey Island	Po	Otariid Pinniped Weighting Function
NAVAIR	Naval Air Systems Command	POPS	Project Operations
NAVBASE	Naval Base	P _P	Phocid Pinniped Weighting Function
NAVSEA	Naval Sea Systems Command	ppb	parts per billion
Navy	United States Department of the Navy	PRST	Post Refit Sea Trial
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PSA	Post Shakedown Availability					
psi pounds per square inch						
PSNS&IMFINST Puget Sound Naval Shipyard and						
	ermediate Maintenance Facility Instruction					
PSU PTS	Practical Salinity Units					
	permanent threshold shift Quinault Underwater Tracking Range Site					
QUTR R	Restricted Area					
	search, Development, Test and Evaluation					
RDX	royal demolition explosive					
re	referenced to					
RITA	Research and Innovative Technology					
MIA	Administration					
RL	Received Level					
rms	root mean square					
RMMV	Remote Multi-Mission Vehicle					
ROD	Record of Decision					
ROP	Range Operating Policies and Procedures					
1101	Manual					
ROV	Remotely Operated Vehicle					
S	south					
SAR	Stock Assessment Report					
SAS	Synthetic Aperture Sonar					
SCUBA	Self-Contained Underwater					
	Breathing Apparatus					
SD	Swimmer Detection Sonar					
SDV	Seal Delivery Vehicle					
SEAFAC	Southeast Alaska Acoustic Measurement					
	Facility					
SEAL	Sea, Air, Land					
sec	second(s)					
SEL	Sound Exposure Level					
SINKEX	Sinking Exercise					
SIP	State Implementation Plan					
SL	source level					
SO_2	sulfur dioxide					
Sonar	Sound Navigation and Ranging					
SPL	Sound Pressure Level					
SPLASH	Structure of Populations, Levels of					
	Abundance, and Status of Humpbacks					
SSN	Navy submarine					
Study Area	· · · · · · · · · · · · · · · · · · ·					
SUS	Signal Underwater Sound					
SWAG	Shock Wave Action Generator					
SWFSC	Southwest Fisheries Science Center					
Tg	tetragram(s)					
TL	transmission loss					
TNT	trinitrotoluene					
TOC	total organic carbon					
TORP	torpedoes					
TRACKEX	tracking exercise					
TTS	temporary threshold shift					
T-weighting	g turtle-weighting					

UAS	Unmanned Aerial System
UEWS	Underwater Emergency Warning System
U.S.	United States
U.S.C.	United States Code
USCG	United States Coast Guard
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USV	Unmanned Surface Vehicle
UUV	Unmanned Underwater Vehicle
VDS	Variable Depth Sonar
VFR	Visual Flight Rules
VHF	Very High Frequency
VOC	volatile organic compounds
W (1)	Warning Area
W (2)	west
yd.	yard(s)



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